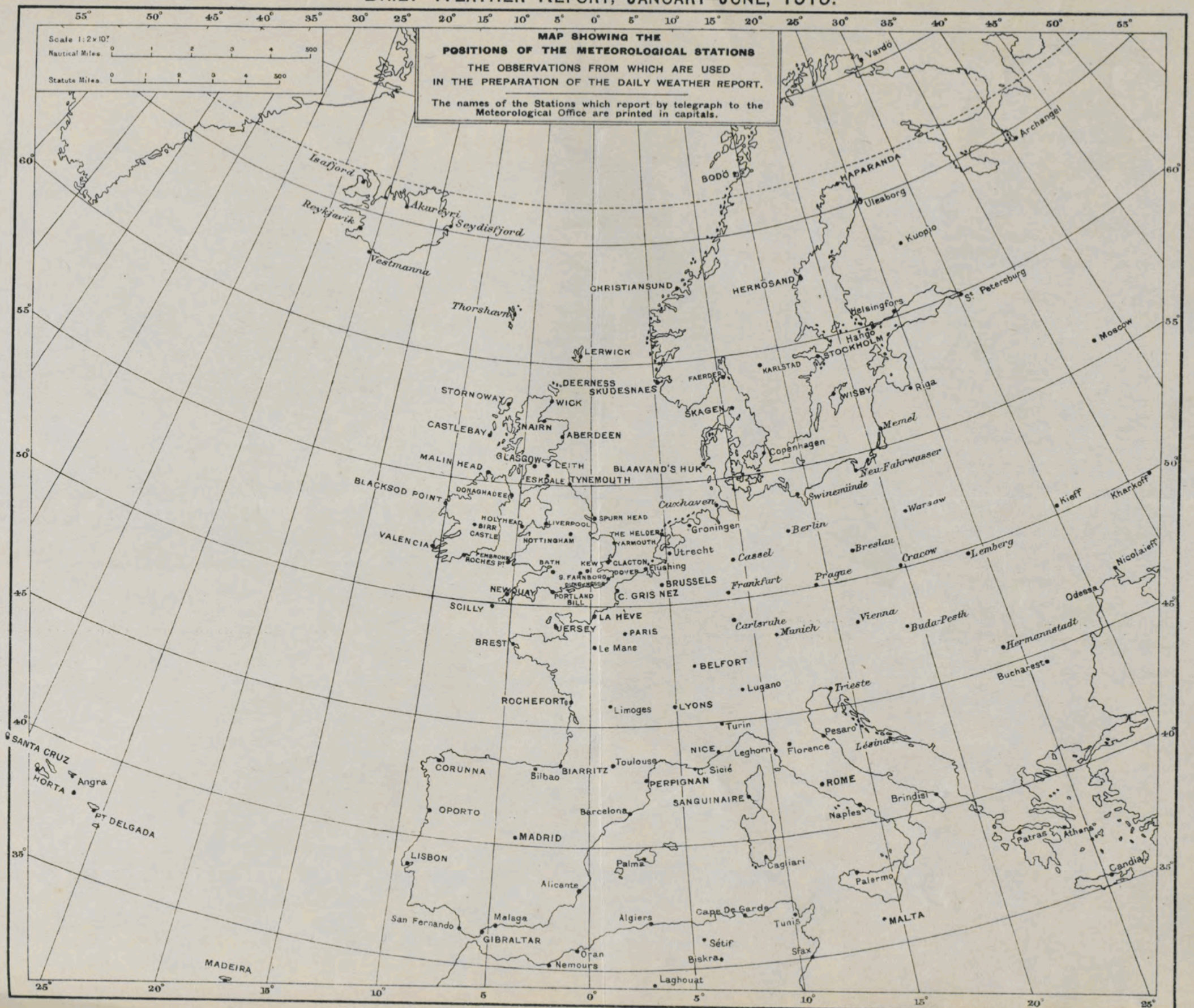
METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JANUARY TO 30TH JUNE 1915.

DAILY WEATHER REPORT, JANUARY–JUNE, 1915.



Receipt of information from Stations 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.

FIRST QUARTER, JANUARY TO MARCH.

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

	STATIONS.	PRESSURE. 1906-1910.	AIR TEMPERATURE.								RAINFALL. 1876-1910.		BRIGHT SUNSHINE. 1881-1910.	
			Means of				Absolute Extremes.							
			1906-1910.		1876-1910.		1876-1910.							
							Maximum.		Minimum.					
		7 a.m. Observations (reduced to M.S. Level and to Lat. 45°).	Dry Bulb 7 a.m.	Wet Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	Days with Rain.	Total Fall.	Average Duration.	Per Centage of Possible Duration.
		In.	°F	°F	°F	°F	°F		°F			In.	Hr.	%
JANUARY.	Sumburgh Head	29·686	39·1	37·6	42·5	35·4	52	1898	16	1910	27	3·94	—	—
	Stornoway	29·771	40·3	39·2	43·5	34·5	55	1890	11	1881	25	5·06	28	13
	Castlebay (Barra Isd.)	[29·812]††	[43·2]††	[41·4]††	[46·0]††	[38·7]††	[52]††	[1908, 09, 10]††	[28]††	[1910]††	[27]††	[3·39]††	[36]††	[16]††
	Malin Head	29·878	41·8	40·9	[44·5]‡	[37·5]‡	[55]‡	[1898]‡	[23]‡	[1894]‡	[22]‡	[2·74]‡	—	—
	Blacksod Point	29·961	44·6	42·7	[46·5]‡	[38·8]‡	[56]‡	[1890]‡	[26]‡	[1891, 94]‡	[26]‡	[5·13]‡	—	—
	Valencia	30·069	44·4	42·4	48·8	40·0	56	1876, 78	20	1894	23	5·52	48	19
	Roche's Point	30·089	43·0	42·1	47·5	39·3	57	1889	20	1894	20	4·39	—	—
	Birr Castle	30·038	39·3	38·4	45·1	34·1	57	1880, 98	6	1881, 94	20	2·74	50	20
	Donaghadee	29·988	40·4	39·7	44·6	36·1	58	1898	14	1881	20	2·59	—	—
	Liverpool (Observatory)	30·042	38·3	36·5	43·1	35·0	58	1898	9	1881	17	2·09	[79]††	[32]††
	Holyhead	30·029	42·4	41·0	45·1	38·2	54	1899	20	1894	19	2·90	—	—
	Pembroke (St. Ann's Hd.)	30·074	42·9	41·2	45·7	39·2	53	1899, 1907	19	1881, 94, 07	19	3·20	55	22
	Scilly (St. Mary's)	30·280	45·7	43·2	49·0	42·5	57	1899	25	1894	20	2·97	60	23
	Jersey (St. Aubin's)	30·170	42·7	40·9	46·3	38·4	57	1877, 99	12	1891	20	2·92	69	26
	Portland Bill	30·076	42·9	41·6	45·2	38·2	[52]‡	[1901, 03, 05]‡	[23]‡	[1907]‡	16	2·20	—	—
	Dungeness	30·081	39·2	37·9	43·5	34·6	55	1878, 98	11	1893	16	[1·82]‡	—	—
	Dover	[30·002]††	[37·2]††	[36·1]††	[43·1]††	[33·1]††	[53]††	[1908]††	[17]††	[1910]††	[14]††	[1·92]††	[84]††	[33]††
	Wick	29·763	37·3	36·1	42·4	33·0	60	1898	− 4	1881	21	2·42	—	—
	Nairn	29·811	37·5	36·1	42·6	31·9	59	1887	4	1910	18	1·98	[47]**	[21]**
	Aberdeen	29·857	36·7	35·2	42·1	33·0	59	1898	4	1881	18	2·09	51	23
	Leith	29·901	39·5	37·6	44·0	33·8	58	1898	9	1881	15	1·73	—	—
	North Shields	29·951	38·2	37·0	43·3	33·5	58	1880, 98	6	1881	14	1·53	—	—
	Spurn Head	29·996	37·7	36·7	41·9	34·6	[55]*	[1898]*	[13]*	[1881]*	15	1·20	—	—
	Yarmouth	30·042	37·3	36·1	41·5	33·4	57	1899	10	1881	17	1·59	[79]††	[32]††
	Clacton-on-Sea	30·084	37·2	36·2	41·5	33·6	[54]§	[1901, 05]§	[21]§	[1907]§	15	1·26	[77]¶	[30]¶
	Nottingham	30·047	36·7	35·6	42·4	32·3	58	1877	2	1881	19	1·77	[43]‖	[17]‖
	Bath	30·113	38·5	37·4	44·2	33·6	[57]†	[1883]†	[11]†	[1881]†	16	2·33	46	18
	Oxford	30·121	37·1	35·7	42·9	33·0	56	1877, 90, 1906	7	1881	15	1·79	51	20
	LONDON { Westminster	30·092	38·5	37·1	[44·6]¶	[34·6]¶	[56]¶	[1910]¶	[20]¶	[1908]¶	[12]¶	[1·50]¶	22	9
	LONDON { Kew	30·110	38·0	36·3	42·8	34·2	56	1877, 1910	9	1881	15	1·70	44	17
FEBRUARY.	Sumburgh Head	29·603	37·9	36·5	41·8	34·2	53	1910	17	1895	22	2·98	—	—
	Stornoway	29·690	38·5	37·5	43·8	34·0	55	1891	12	1892	22	4·28	60	23
	Castlebay (Barra Isd.)	[29·772]††	[42·7]††	[40·9]††	[45·7]††	[39·0]††	[50]††	[1909]††	[29]††	[1908]††	[23]††	[3·33]††	[51]††	[20]††
	Malin Head	29·777	40·8	39·8	[44·4]‡	[37·2]‡	[59]‡	[1891]‡	[20]‡	[1895]‡	[19]‡	[2·31]‡	—	—
	Blacksod Point	29·879	43·0	41·1	[46·6]‡	[38·1]‡	[61]‡	[1891]‡	[24]‡	[1902]‡	[22]‡	[3·80]‡	—	—
	Valencia	29·969	43·4	41·2	49·1	39·9	58	1891	22	1895	22	4·96	71	26
	Roche's Point	29·967	42·1	41·6	48·0	39·3	56	1877, 89, 96	25	1895, 1900, 02	18	3·83	—	—
	Birr Castle	29·927	38·5	37·5	46·8	34·6	59	1891	6	1895	17	2·24	67	25
	Donaghadee	29·858	39·4	38·3	45·5	36·1	57	1897, 1903	16	1895	18	2·31	—	—
	Liverpool (Observatory)	29·895	37·8	36·2	44·2	35·6	62	1878	12	1895	16	1·76	[88]††	[32]††
	Holyhead	29·890	41·3	40·1	45·3	38·1	59	1891	17	1895	17	2·44	—	—
	Pembroke (St. Ann's Hd.)	29·934	42·0	40·4	45·6	39·0	56	1903	23	1895	17	2·57	77	28
	Scilly (St. Mary's)	30·139	44·7	42·1	49·0	42·1	57	1896, 99	27	1895	18	2·57	87	31
	Jersey (St. Aubin's)	30·022	42·0	39·8	47·1	38·8	62	1891	18	1895	18	2·51	92	33
	Portland Bill	29·928	41·5	40·1	45·7	38·4	[54]‡	[1905]‡	[25]‡	[1900]‡	13	1·87	—	—
	Dungeness	29·932	38·0	36·7	44·2	35·2	57	1897	11	1889	15	[1·40]‡	—	—
	Dover	[29·982]††	[38·0]††	[36·8]††	[44·8]††	[34·6]††	[55]††	[1909]††	[26]††	[1909]††	[17]††	[1·42]††	[93]††	[33]††
	Wick	29·662	36·8	35·3	42·8	32·6	59	1878	2	1895	19	2·24	—	—
	Nairn	29·715	36·3	34·8	43·6	31·5	64	1891	0	1895, 97	16	1·73	[85]**	[33]**
	Aberdeen	29·759	37·0	35·4	43·1	33·1	64	1897	6	1895	17	2·11	76	29
	Leith	29·777	38·1	36·1	45·3	33·8	59	1882	12	1895	14	1·45	—	—
	North Shields	29·813	37·1	35·8	44·3	33·8	60	1898, 99	7	1895	14	1·43	—	—
	Spurn Head	29·850	37·5	36·4	42·8	35·4	[61]*	[1899]*	[20]*	[1895]*	13	1·26	—	—
	Yarmouth	29·898	37·1	35·8	42·6	33·9	58	1898	15	1895	16	1·58	[81]††	[30]††
	Clacton-on-Sea	29·933	36·8	35·8	43·1	34·1	[58]§	[1903]§	[20]§	[1901]§	12	1·35	[86]¶	[31]¶
	Nottingham	29·899	36·5	35·2	44·6	33·3	61	1899	2	1895	17	1·61	[62]‖	[23]‖
	Bath	29·965	37·4	36·4	46·2	34·3	[62]†	[1899]†	[16]†	[1902]†	14	2·12	73	26
	Oxford	29·965	36·7	35·3	45·2	34·0	64	1891	7	1895	14	1·69	70	25
	LONDON { Westminster	29·940	38·0	36·5	[46·0]¶	[35·3]¶	[56]¶	[1909, 10]¶	[23]¶	[1909]¶	[15]¶	[1·28]¶	37	13
	LONDON { Kew	29·958	37·4	35·6	44·8	35·1	62	1899	11	1895	14	1·59	60	22
MARCH.	Sumburgh Head	29·773	37·8	36·4	42·6	34·1	57	1893	18	1879	25	2·95	—	—
	Stornoway	29·824	38·4	37·4	45·0	34·1	57	1894, 1907	13	1881	23	3·90	104	29
	Castlebay (Barra Isd.)	[29·796]††	[41·0]††	[39·3]††	[45·0]††	[36·2]††	[50]††	[1908]††	[28]††	[1909]††	[21]††	[2·47]††	[102]††	[28]††
	Malin Head	29·850	40·5	39·5	[45·9]‡	[37·7]‡	[62]‡	[1894]‡	[25]‡	[1906]‡	[20]‡	[2·35]‡	—	—
	Blacksod Point	29·904	43·0	41·3	[47·9]‡	[38·7]‡	[64]‡	[1894, 99]‡	[26]‡	[1891, 00, 09]‡	[24]‡	[4·00]‡	—	—
	Valencia	29·957	43·4	41·4	50·4	39·8	66	1899	26	1899, 01	21	4·23	124	34
	Roche's Point	29·964	42·4	41·4	49·4	39·3	61	1899	27	1890	16	3·02	—	—
	Birr Castle	29·937	39·2	38·3	49·3	34·6	66	1894	18	1891	17	2·41	110	30
	Donaghadee	29·912	39·8	38·7	47·2	36·5	64	1892	25	1892, 06	19	2·16	—	—
	Liverpool (Observatory)	29·932	39·1	37·2	46·8	36·7	65	1884, 94, 07	21	1886	16	1·83	[121]††	[33]††
	Holyhead	29·922	41·5	40·2	46·9	38·4	67	1894	27	1881	17	2·51	—	—
	Pembroke (St. Ann's Hd.)	29·940	41·1	40·1	46·5	38·9	58	1899	26	1888, 09	17	2·36	133	36
	Scilly (St. Mary's)	30·113	44·6	42·1	49·9	42·1	59	1893	30	1883, 90, 91	18	2·28	145	40
	Jersey (St. Aubin's)	29·995	42·3	40·3	49·7	39·8	66	1893, 94, 03	21	1890	17	2·40	152	42
	Portland Bill	29·922	41·4	40·1	47·6	38·6	[59]‡	[1900]‡	[26]‡	[1909]‡	14	1·74	—	—
	Dungeness	29·934	39·1	38·1	46·7	36·3	60	1903	12	1909	15	[1·63]‡	—	—
	Dover	[29·861]††	[38·6]††	[37·5]††	[45·3]††	[34·7]††	[57]††	[1910]††	[17]††	[1909]††	[18]††	[2·23]††	[127]††	[35]††
	Wick	29·805	37·3	35·9	44·8	33·6	62	1894	10	1900	21	2·25	—	—
	Nairn	29·826	36·2	34·8	46·1	32·6	66	1907	6	1892	18	1·93	[122]**	[34]**
	Aberdeen	29·853	37·7	36·2	45·6	34·1	66	1889, 91, 92	10	1889	20	2·42	117	32
	Leith	29·861	38·9	36·9	47·7	34·5	68	1884	19	1870, 81, 89	16	1·68	—	—
	North Shields	29·888	37·8	36·4	46·7	34·3	67	1907	15	1889	15	1·74	—	—
	Spurn Head	29·893	38·5	37·4	45·3	36·2	[62]*	[1890, 93, 03]*	[24]*	[1886]*	15	1·33	—	—
	Yarmouth	29·913	38·0	36·6	45·3	35·2	65	1906	18	1892	16	1·66	[125]††	[34]††
	Clacton-on-Sea	29·945	37·9	37·2	45·9	35·4	[59]§	[1906]§	[19]§	[1909]§	13	1·32	[146]¶	[40]¶
	Nottingham	29·930	37·1	36·1	48·3	34·1	68	1884	14	1909	18	1·59	[116]‖	[32]‖
	Bath	29·968	37·8	36·6	49·5	34·5	[67]†	[1907]†	[13]†	[1909]†	14	2·05	119	33
	Oxford	29·978	38·1	36·5	49·1	34·5	69	1907	15	1891	14	1·52	115	32
	LONDON { Westminster	29·948	38·5	37·2	[49·6]¶	[36·1]¶	[68]¶	[1907]¶	[18]¶	[1909]¶	[18]¶	[1·78]¶	73	20
	LONDON { Kew	29·966	37·9	36·2	48·6	35·7	67	1896	17	1909	13	1·59	109	30

* Results for 30 years, 1881-1910.
† " 26 " 1876-1884 and 1899-1910.
‡ " 25 " 1886-1910.
At Birr Castle and Oxford the averages are for 8 a.m.

†† Results for 11 years, 1900-1910.
§ " 10 " 1901-1910.
‖ " 7 " 1904-1910.

¶ Results for 6 years, 1905-1910.
** " 4 years, 1907-1910.
†† " 3 " 1908-1910.

METEOROLOGICAL OFFICE,
South Kensington, London, S.W.
MARCH, 1911.

(19358—24.) Wt 10665—7402. 4,000. 3/11. D & S.

SPAIN PORTUGAL

Azores (Horta, 8 a.m.)	29·97	*	S	2	c	29·94	-·03	53	-2	N	4	r	3	0·51	63	52	
Madeira (Funchal) ...																	

* Information for these columns not usually received.

† Received too late for insertion in Charts.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 1

Friday. 1st January. 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	987·1	41	SSW	5	c	989·2	0	43	−3	S	5	S	bc	4	0·4	46	39	om	om	bc	*
	Deerness ...	987·5	38	SSW	5	b	985·1	*	41	+1	SE	5	SW	bc	6	–	43	37	o.c bc	bc.b	b.bc	0·8
	Stornoway ...	983·6	38	S	6	opq	978·9	−5	40	+5	SSE	7	–	oq	6	7	41	35	odp.bc	bc.opq	op.bc.oq	0·3
	Castlebay (Barra Isd.)	983·2	43	SW	5	op	974·4	−8	41	+2	SE	6	–	o	6	1	44	37	oh.op	op	op.bc.o	0·1
	Glasgow ...	991·5	36	SSW	4	bc	981·9	−9	35	−3	ESE	4	SE	o	*	0·1	39	33	c.bc.c	bc.b.bc	bf.b.bc	3·1
	Eskdalemuir ...	994·0	33	S	2	bc	983·1	−10	35	−3	SE	5	–	o	*	0·3	38	32	oq.c	c.bc	o.bcx.o	1·0
	Malin Head ...	985·9	36	S	5	bc	970·8	−12	37	0	SE	5	–	omq	5	–	41	34	bc	bc	bc	3·5
	Markree Castle	989·1	34	SSE	3	b		‡							*		*	*	ops.ct	cpst		
	Blacksod Point	985·3	41	SSW	5	cph	958·3	−13	39	0	E	8	SE	owp	6		41	36	cph	cph	cph.cp.	*
	Valencia ...	988·5	39	S	2	b	954·6	−13	47	+10	SSE.	4	–	o	4	18	47	37	bcv.h	bcph	omr	2·3
	Roche's Point	993·9	43	SW	3	b		*											bc.c	cph.b		*
	Birr Castle ...	990·6	35	S	2	b	963·7	*	41	+10	SE	7	–	r	*	1	41	31	bc	b	bcxc.or	6·3
	Donaghadee ...	991·0	36	SW	3	bc	975·8	−11	42	+9	S	5	S	omq	4	5	42	32	bc	bc	bx.l.mr	*
	Liverpool (Bidston)	995·9	37	SSE	3	c	981·6	−14	37	−3	ESE	5	E	oq	4	–	41	33	o.bc	bc	o	3·0
	Holyhead ...	994·1	43	S	4	oq	975·2	−12	44	+4	S	6	S	oqp	6	3	46	38	b.bc.cp	cp.tbr	or.c.op	3·1
	Pembroke (St. Ann's)	995·5	43	SSW	5	c	972·1	−16	43	−1	SE	8	–	orq	7	9	45	36	bc	cqp	cqp.	2·1
	Scilly (St. Mary's)	995·8	43	WSW	5	cq	970·1	−19	49	+5	S	6	S	cqp	7	4	49	40	bc	bepq	cp.oqr	4·5
	Falmouth ...	992·3	40	WSW	2	b	973·6	−14	45	+4	S	8	–	r	7	6	48	38	bc	bchq	bcr	3·9
	Jersey (St. Aubin)	1001·7	44	WSW	3	bc	986·7	*	44	−1	SE	7	–	oqp	5	1	47	43	o.c	c.bc	b.oqp.	0·5
	Portland Bill ...	999·2	44	SW	3	c	983·7	−9	43	−3	SSE	8	S	c	6	2	47	42	bc	bc	bc.cqp	*
	Dungeness ...	1000·2	42	–	0	c	993·6	−9	43	0	SSW	5	SW	bcu	5	3	45	36	od	od.c	bc	*
	Dover	1005·8	40	–	0	m	993·3	−7	39	−2	SE	5	SE	c	4	4	47	39	op	op.bcy	c.bcx.c	0·0
	Wick	987·9	38	S	4	b	985·3	−4	40	+5	SSE	5	S	o	4	–	42	36	om.c	bcm	bm.omu.	*
	Nairn	987·9	34	S	1	bcx	983·6	*	35	+1	S	1	–	cq	2	0·1	37	32	g.bc	bc	bc.cq	3·8
	Aberdeen ...	991·7	36	S	3	b	986·0	−5	41	+1	SSE	5	–	c	4	–	41	35	oq.bc	bc.b	b.bc.c	0·4
	Leith	992·7	37	SE	1	b	983·4	−4	35	−8	E	2	SE	c	*	–	44	34	bc.b.	b	b.	*
	Tynemouth ...	995·3	37	SSW	2	bm	987·5	−8	39	−3	SSE	5	–	c	4	–	42	34	em	bm	cm.	*
	Spurn Head ...	997·8	38	WSW	1	bc	989·3	−3	40	−1	SSE	5	–	bc	4	4	40	35	or	or.bc	bc	0·0
	Yarmouth ...	999·1	40	S	2	c	993·3	−4	39	−3	S	3	–	b	2	2	43	34	omr	omr.c	b	0·0
	Clacton-on-Sea	999·2	41	WSW	1	ogm	992·7	−5	42	+1	SSE	3	S	bc	2	–	42	33	ogp	ogm	om.fx.b.	0·0
	Nottingham ...	998·1	37	SW	1	b	988·0	*	36	−5	SE	4	SE	b	*	2	42	33	omr	cm.b	bc	0·8
	Bath	998·6	38	S	2	b	983·8	*	42	+1	SSE	5	S	r	*	2	44	35	c. c	c.bc.b	b.orq	1·1
	London (Kew Obsy.)	1000·0	39	SW	1	cm	990·0	−9	39	−3	SSE	4	S	cm	*	3	44	32	or	odm	cm.bcmx.om	0·2
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1016·1	37	S	5	o	1005·5	−2	39	+3	?	6	–	r	4	–	39	36				
	Blaavands Huk	1006·4	36	S	7	m	1000·8	−4	36	0	SSE	6	–	o	4	Trace	37	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1001·7	37	SSE	5	r	996·6	−5	37	+3	SSE	2	–	o	1	8	39	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	999·7	43	WNW	2	o	994·4	−8	36	−1	SSE	5	*	f	3	Trace	43	36				
	La Hève	1002·0	41	S	3	o	994·1	*	36	−5	SSE	4	*	o	3	–	45	34				
	Ushant							*					*									
	Brest (St. Mathieu)	1002·4	46	W	5	c	978·4	−12	46	+1	SSE	8	*	r	7	5	52	45				
	Rochefort (Ile d'Aix)	1004·6	46	WNW	4	bc	995·7	−1	42	−1	SSW	5	*	o	*	18	46	41				
	Biarritz	1008·0	45	W	4	o	999·5	−9	46	−2	S	4	*	o	5	11	48	43				
	Paris	1003·0	41	SSW	2	r	999·1	−5	37	0	S	3	–	o	*	13	43	37				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice †.. ...	1014·6	45	E	4	o	1007·1	+1	39	0	E	4	*	r	6	18	46	37				
	Perpignan ..	1002·0	50	W	2	o	1007·5	0	36	−14	–	0	–	b	*	–	57	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1010·1	46	SW	3	c	995·0	−1	55	+9	SW	6	–	r	5	5	55	46				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*														
	Rome														*							
	Azores (Horta, 8 a.m.)	1020·0	*	SW	5	o																
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Blacksod Point
1st 7a.m E 8

Pembroke
1st 6a.m-7a.m SE 8

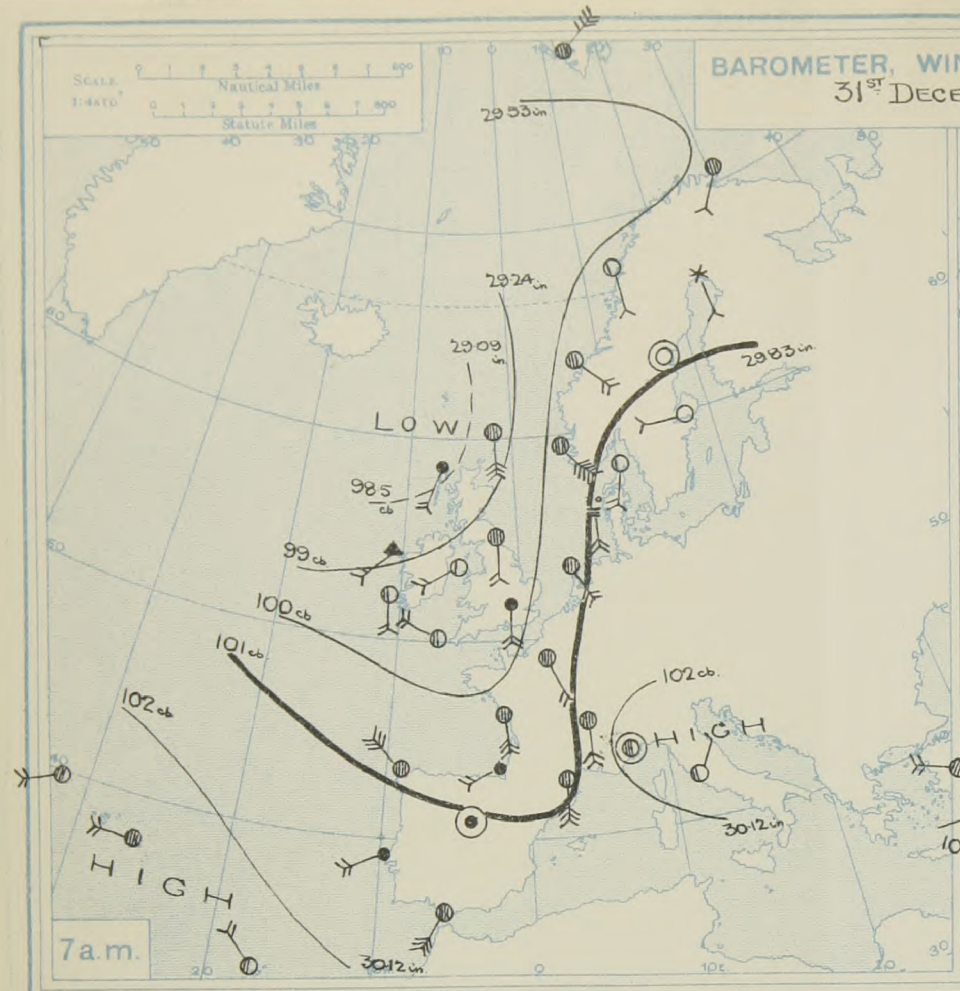
Scilly
1st 3a.m-6a.m SSE 8
Ex. SSE 10 @ 4a.m.

Falmouth
1st 4a.m-7a.m S 8

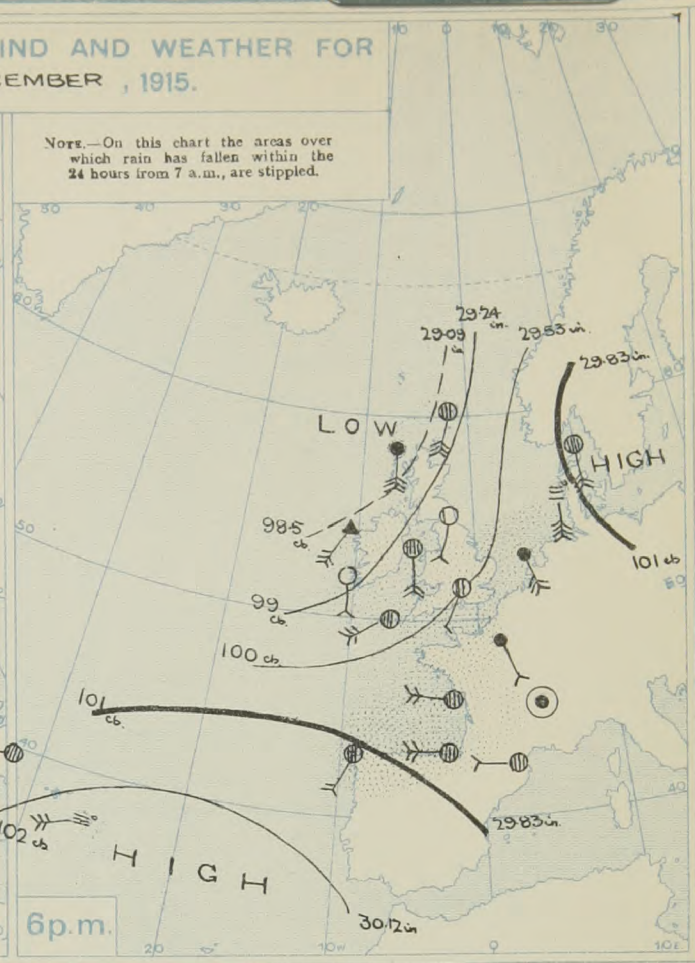
Portland Bill
1st 6a.m-7a.m SSE 8.

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

BAROMETER, WIND AND WEATHER FOR 31ST DECEMBER, 1915.

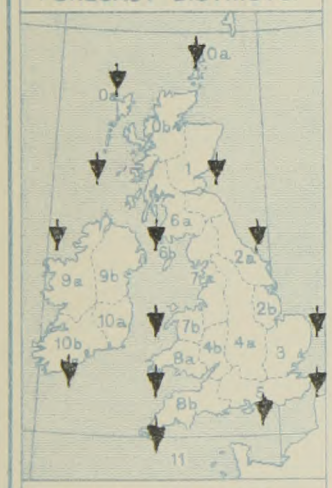


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



0 {a b} 1 2 {a b} 3 4 {a b} 5 6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} 11

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted to-day at 8.0 a.m. on all coasts.

Western Channel and Bay

Squally Southeasterly to Southerly strong winds and gales; very unsettled, with rain generally, some sleet or snow in places; cold to moderate temperature.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

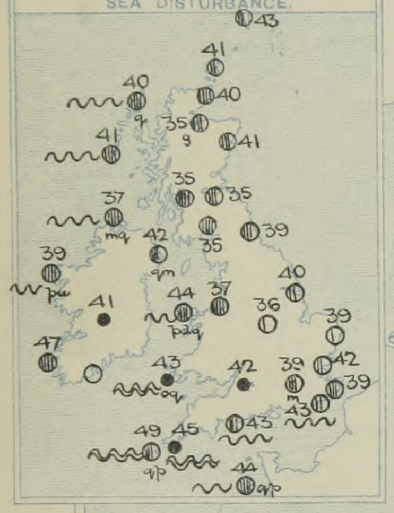
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970 — Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 1ST JANUARY, 1915.

GENERAL INFERENCE

Under the influence of the deep disturbance in the West, boisterous weather will be general.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Inches.
31
30
29

29·24 in.
29·09 in.
29·38 in.
28·94 in.
29·53 in.
28·79 in.
29·68 in.
28·65 in.
28·50 in.
28·35 in.
28·20 in.
95·5 cb.
96 cb.
96·5 cb.
97 cb.
97·5 cb.
98 cb.
98·5 cb.
99 cb.
99·5 cb.
100 cb.
100·5 cb.

LOW
HIGH
HIGH
Barometer falling generally
Barometer rapidly

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 JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Friday, January 1st, 1915.

REPORTS FOR YESTERDAY.

December 31st 1914

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Clacton-on-Sea						1001.5	-5	41		SSE	1	S	og	4	0.3	43	39
Haparanda	999.8	21	S	4	0	1003.5	+3	19	-2	S	2	-	S	*	1	21	16
Hernösand	997.0	34	-	0	0	1009.9	+5	27	-7	-	0	-	0	*	6	36	23
Stockholm	1001.2	36	W	2	0	1013.0	+3	29	-9	W	2	-	0	*	-	37	27
Wisby	1005.3	39	WNW	6	0	1015.8	+4	36	-3	W	4	-	b	*	-	41	34
Karlstad	1006.9	32	WNW	2	b	1013.9	+4	21		-	0	-	b	*	-	36	19
Lisbon	1016.6	52	SSE	4	0	1014.3	+2	46	+7	WSW	4	-	r	8	16	54	45
Rome	1023.4	43	N	1	b	1024.3	0	36	-10	NE	1	-	bc	*	-	54	36
Horta						1024.2	-3	58	+3	WSW	4	-	0	4	1	59	52
Funchal	1022.6	63	WSW	3	r	1024.4	+2	57	-5	NW	3	-	bc	8	2	68	57

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	2	44	34	o.c.bc	bc b	3.2
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	4	40	34	c	c.bc.b	0.5
Eng., N.E.	Scarborough	*	43	36	o	o.c	0.0
Eng., N.E.	Skegness	9	40	36	or	or	0.0
Eng., N.W.	Morecambe	4	43	39	bc.b	b.bc	3.0
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	3	43	36	o.c.bc	b.bc	2.6
Midlands.	Buxton	12	40	33	bc	b	2.3
Midlands.	Leamington Spa	7	41	33	c	c.bc	0.4
Midlands.	Malvern	11	45	37	bc	bc.b	4.1
Midlands.	Ross-on-Wye	15	42	37	bc	b	2.7
Wales.	Rhyl	2	47	36	b	b	3.7
Wales.	Colwyn Bay	11	42	39	bc	bcp	2.0
Wales.	Llandudno	10	46	39	b	b	2.8
Wales.	Aberystwyth	9	51	37	or.c	c.o.c	1.7
Wales.	Tenby	3	45	34	bc.o	bc.or	2.3
Wales.	Swansea	11	48	38	ch	bc.h	2.6
England, E.	Cromer	3	42	38	o.or	o.cr.bc	0.1
England, E.	Lowestoft	1	43	40	op	o.c.bc	0.0
England, E.	Felixstowe	2	43	37	cp	bc	0.0
England, E.	Walton-on-Naze	-	43	39	cg.c	cc	0.0
England, E.	Southend-on-Sea	-	43	40	o	o	0.0
England, S.E.	Tunbridge Wells	6	44	38	or.o	o.b.com	0.1
England, S.E.	Margate	1	43	39	c	odm	0.0
England, S.E.	Ramsgate	2	43	39	r	r	0.0
England, S.E.	Folkestone	4	44	40	or	of	0.0
England, S.E.	Hastings	3	45	41	bc.or	o.c	0.0
England, S.E.	Bexhill-on-Sea	5	46	41	o	bc	0.2
England, S.E.	Eastbourne	4	45	44	or	o.cg	0.1
England, S.E.	Seaford	1	46	39	r	c	0.6
England, S.E.	Brighton	9	45	43	or.o.c	c.bc.s	0.1
England, S.E.	Worthing	9	45	40	o	bc	0.2
England, S.E.	Littlehampton	13	47	?	or.bc	bc.b.o	0.1
England, S.E.	Bognor	13	46	41	or.c	c.br	0.1
England, S.E.	Southsea	10	48	42	o	c.o	1.2
England, S.E.	Bournemouth	19	44	40	o.c	om	2.0
England, S.W.	Weymouth	12	45	43	o.bc	b.bc	1.3
England, S.W.	Exmouth						
England, S.W.	Torquay	18	47	41	c.o	c.bc.b	4.6
England, S.W.	Paignton	20	47	40	c	b	3.6
England, S.W.	Falmouth	3	47	39	c.b	bchq	3.9
England, S.W.	Penzance	6	47	38	bc.b	bcp	4.2
England, S.W.	Newquay	3	47	38	cp	bcp	4.8
England, S.W.	Ilfracombe	4	46	40	c.bc	bc	2.5
England, S.W.	Weston-super-Mare	13	48	41	bc.b	b	4.3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	87	86	0.1	44	31	24	1	or	or.om	bc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	61	0.1	46	36	30	1	or	o	ox.om
Camden Sq. (Brit. Rainfall)	88	84	0.0	44	34	28	1	ogmd	bcm	*
Hampstead (Reservoir)	*	81	0.1	42	31	23	3	or	c.ox	o
Richmond Park	*	*	0.3							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	83	81	0.1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
149 Joules	53 Milliwatts.	17 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	2	40	34	34	or.c.b	b	bc	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*	47	37	28	o.or	oro.c	c.o.bc	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	4	47	41	40	od	o.or	o.bcg	*

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

Jan. 1st & 2nd 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.6	11 57	3.49
	8.6	11 57	3.48
Greenwich	8.8	12.4	4.0
	8.8	12.4	4.0
Wick	9.3	12.16	3.27
	9.5	12.16	3.28
Valencia	8.51	12.45	4.38
	8.51	12.45	4.39

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° in most districts. Rainfall was slight generally, but Valencia had 19 mm. Various localities had no bright sunshine, others had good records, up to 6·3 hours at Birr Castle.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 2

Yesterday. 31st January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	983·0	43	SE	6	bc	974·3	‡3	42	-1	SE	8	-	cq/p	6	4	43	40	bc	bc	cq/p	*
	Deerness ...	976·3	42	ESE	8	cqu	966·1	*	43	+2	SE	7	-	rqu	7	2	44	39	bc.c.o	cqu	cqur	0·0
	Stornoway ...	965·6	43	SE	7	cq	958·6	-3	43	+3	SE	7	-	cq	6	-	43	39	cq	cq	c.bc.cq	0·0
	Castlebay (Barra Isd.)	958·2	41	ESE	7	cp	953·5	0	45	+4	SE	7	-	cp	6	6	45	39	c	cp	cp	0·0
	Glasgow ...	964·4	38	SE	6	o	961·5	-2	38	+3	SE	4	-	o	*	1	40	35	c.crsp	crspq	o.c.cp	0·0
	Eskdalemuir ...	967·3	36	SE	6	o	963·3	-3	36	+1	ESE	3	-	cd	*	3	38	33	cr.3	S.r.c	cd.bc.o	0·0
	Malin Head ...	950·2	42	SE	7	cq	954·8	+4	43	+6	WSW	6	SW	cmqqr	6	6	43	36	bcq	cq/p	cmq	0·0
	Markree Castle							*							*		*	*				
	Blacksod Point	952·9	45	SW	3	cm	961·2	+7	42	+3	W	7	NW	cp	6	3	45	34	cm	cm	cp	*
	Valencia ...	960·4	44	SW	6	c	970·9	+2	45	-2	SW	6	-	c	5	7	48	40	cqp	cpqh	qp	0·4
	Roche's Point	963·8	45	WSW	4	b	972·8	*	41	-8	WSW	4	W	c	5	4	49	41	o.cp	cp.b	cp.c	*
	Birr Castle ...	957·0	43	S	6	o	967·6	*	39	-2	SW	2	-	c	*	11	43	38	crq	crq.cq	crq.c	0·0
	Donaghadee ...	958·6	45	S	5	cmq	961·4	+5	41	-1	SW	4	SW	cmq	4	11	45	38	cmq	cmq	cmqr.c	*
	Liverpool (Bidston)	967·7	40	SE	4	o	967·8	+2	42	+5	SW	5	-	cq	4	4	43	37	cm	cr	cp	0·0
	Holyhead ...	963·5	42	SW	6	bcq	967·6	+5	44	0	WSW	5	W	bq	5	18	47	40	cp.cpq	cr.cp.c	cp.cr.b	0·0
	Pembroke (St. Ann's)	966·3	46	S	6	c	973·5	+5	47	+4	WSW	5	W	cq	5	10	49	42	cqr	cq/p	cq/p	0·4
	Scilly (St. Mary's)	969·5	47	W	7	cpq	976·5	+4	45	-4	WNW	7	SW	cq/p	7	11	50	41	cpq	cpq	cq/p	2·2
	Falmouth ...	970·7	43	SW	4	c	977·8	+4	42	-3	W	3	-	bc	4	16	50	40	rqph	phq	bchp	1·5
	Jersey (St. Aubin)	975·9	50	SSW	4	opq	981·5	*	45	+1	SW	5	SW	cp	4	6	50	42	opq	o.c.opq	c.cq/p	0·1
	Portland Bill ...	972·1	48	SSW	5	o	976·3	+3	47	+4	W	6	W	bc	5	9	49	43	crq	o	cp.cq	*
	Dungeness ...	977·6	44	SSE	8	cq	978·5	+2	42	-1	W	3	W	cp	4	11	44	40	crq	cq	crhz.r	*
	Dover	977·2	41	SSW	6	o	978·7	0	41	+2	SW	4	SW	cq	6	10	46	38	c.cprq	cprq	c.c.cr.o	0·0
	Wick	974·1	42	SSE	6	o	966·4	-3	43	+3	SSE	6	-	m	6	2	44	40	cm.mp	cmqmp	cqmmp	*
	Nairn	969·3	40	ESE	5	o	962·8	*	39	+4	ESE	3	-	bc	3	1	42	34	cq/q	cmq	cq/pz	0·9
	Aberdeen ...	973·1	43	SE	8	opq	965·2	-2	43	+2	SSE	4	-	c	6	6	43	39	cq.o	cq	cq/r.c	0·0
	Leith	967·3	38	SE	4	r	962·8	-2	38	+3	ESE	1	-	c	*	4	40	35	o	cr	cp	*
	Tynemouth ...	971·3	40	SE	8	cmq	965·9	-3	39	0	*S	5	SE	cmp	5	3	41	37	cq	cq	cm	*
	Spurn Head ...	973·1	38	SSE	8	r	970·6	0	37	-3	SSW	6	-	bcq	8	6	40	37	cq	cqr	bcq/r	0·0
	Yarmouth ...	978·9	42	SSE	9	crm	975·4	+2	40	+1	S	2	S	bc	1	4	44	38	c.o	cmr	cm.bc	1·0
	Clacton-on-Sea	977·6	40	SSE	7	cq	976·2	+1	42	0	S	2	-	cq	2	2	43	35	bc.c.cq	cqqd	cqr.c	0·0
	Nottingham ...	971·7	40	SSE	5	o	971·3	*	39	+3	SW	4	SW	o	*	1	43	36	bc.cr	cr	o.c	0·0
	Bath	971·5	44	S	2	o	975·3	*	41	‡1	SW	2	SW	b	*	12	47	40	rq	r.o	cr.bcp	0·0
	London (Kew Obsy.)	974·2	44	S	4	o	976·4	+3	41	+2	SSW	3	W	bc	*	12	45	38	c.o.cr	cr.o	cd.cr.bc	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	999·3	37	ESE	6	o	992·3	-2	37	-2	SSE	7	-	o	5	1	39	32				
	Blaavands Huk	993·6	34	SSE	6	o	984·2	+3	36	0	SSE	6	-	.s	5	Trace	37	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	986·9	37	SE	4	o	980·2	+3	39	+2	SSE	4	-	b	3	2	43	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez † ...	979·1	39	SSE	6	c	978·3	+3	41	+5	W	7	*	r	5	3	41	36				
	La Hève	980·8	39	S	6	o	982·3	*	43	+7	SW	6	*	c	5	3	43	36				
	Ushant							*					*									
	Brest (St. Mathieu)												*									
	Rochefort (Ile d'Aix)												*									
	Biarritz	995·7	54	SW	5	r	997·9	0	52	+6	WSW	4	*	b	6	8	54	48				
	Paris †	985·7	41	S	4	o	984·6	+3	43	+6	SSW	3	-	bc	*	7	46	37				
	Belfort	997·0	37	-	0	o	992·3	*	45		-	0	*	o	*	1	45	36				
	Lyons	997·5	44	S	5	o	995·9	*	43	+6	S	1	*	o	*	-	46	37				
	Nice												*									
	Perpignan ..														*							
	Sanguinaire ...	1007·9	51	SE	6	f	999·1	*	54		SW	6	*	f	6	19	59	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	995·8	55	WSW	6	o	1001·6	+1	50	-5	SW	5	-	o	6	12	59	48				
	Madrid (8 a.m.)	1006·6	46	SW	3	r	1009·2	+4	43		WSW	1	NW	c	*	11	46	43				
	Lisbon (9 a.m.)	1010·0	59	SW	6	o	1011·3	0	55	-2	SW	4	-	o	*	1	59	54				
	Gibraltar	1018·9	56	W	9	r	1015·9	*	55		W	9	-	mr	5	?	58	51				
	Rome														*							
	Azores (Horta, 8 a.m.)	1017·9	*	W	4	c																
	Madeira (Funchal)	1023·4	63	W	3	bc	1021·5	0	59	+4	W	3	-	b	3	-	66	55				

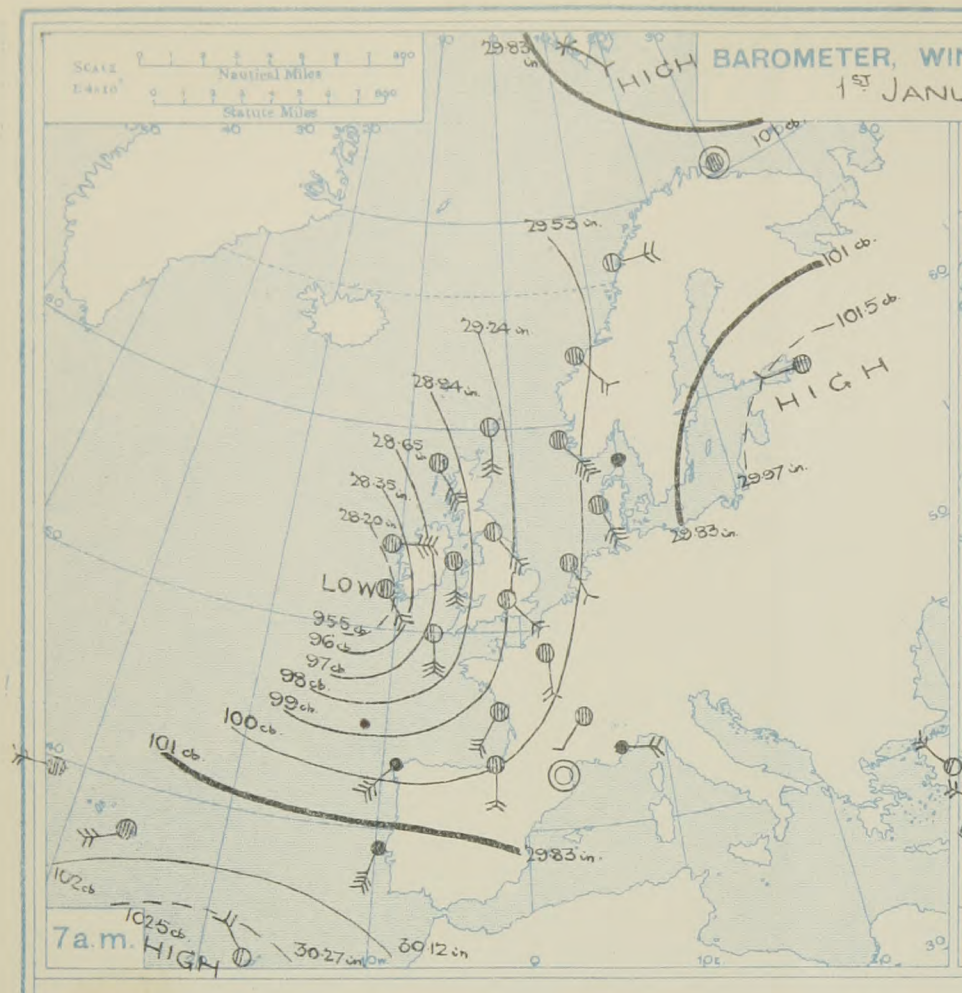
GALES.

Duration and Extreme Force in British Islands.

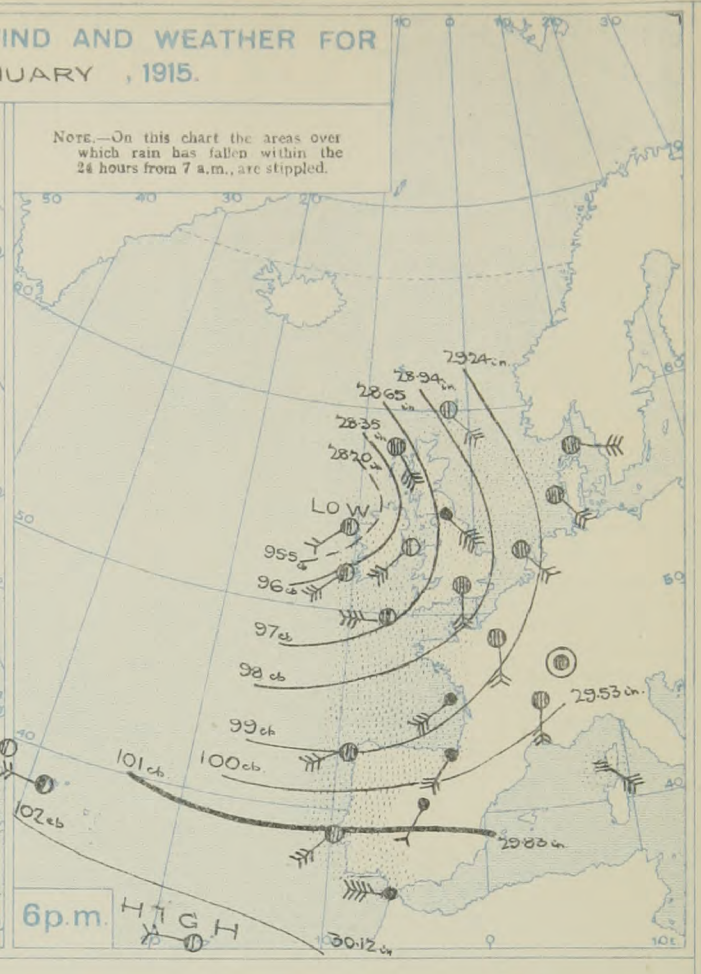
Lerwick
2nd 1AM-7AM. SE. 8
Deerness
1st 6pm ESE. 8
Castlebay
1st 2pm-3pm ESE 8
Valencia
2nd 3AM. W. 8
Eskdalemuir
1st 2pm SE. 8
Donaghadee
1st 9a.m-8pm. SSE. 8
1st NOON SSE 9
Holyhead
1st 1p.m SSE 9
2nd 7AM SSW 8
Pembroke
1st 7A.M-11A.M SE. 8
Scilly
squalls force 9
Jersey
1st. 7a.m-1pm SSE. 8
Portland
1st 6A.M-2pm S.8
force 10 in squalls
Dungeness
1st 2pm-MIDT SSE 8
Wick
1st 2pm-2nd 4AM SSE. 8
Aberdeen
1st 6pm-9pm SE 8
gusts force 10
Tynemouth
1st 6pm. SE. 8
Spurn Head
1st 2pm-5pm S. 8
Yarmouth
1st 1pm-6pm S.8. 4pm SSE 10
Clacton. 1st 3pm SSE. 8
Kew 1st. 1p.m SSE. 8

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

BAROMETER, WIND AND WEATHER FOR 1ST JANUARY, 1915.

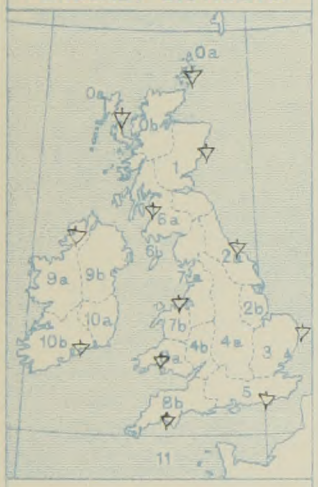


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted yesterday at 8 a.m on all coasts.

Western Channel and Bay 11

0 {a b} 1 — South-Easterly winds, squally, strong to high, a gale on coast, veering Southerly or South-Westerly later; unsettled, some rain or sleet; moderate temperature.

2 {a b} 3 4 {a b} 5 — Wind between South and West, squally, fresh to strong or high at times; changeable, some rain, fair or fine intervals; moderate temperature.

6 {a b} 7 {a b} — Same as Nos. 0 and 1.

8 {a b} 9 {a b} 10 {a b} — Same as Nos. 2 to 5.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

Millibars Inches
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 2ND JANUARY, 1915.

GENERAL INFERENCE.

The north-western depression is travelling slowly north-eastward, and for the present the weather is likely to remain in a changeable condition.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

Mrs. Inches.
31
30
29

LOW
95·5 cb.
96 cb.
96·5 cb.
97 cb.
97·5 cb.
98 cb.
98·5 cb.
99 cb.
99·5 cb.
100 cb.
100·5 cb.
101 cb.
101·5 cb.
102 cb.
HIGH
30·12 in.

Barometer falling
Barometer rising
40°
50°

28·79 in.
28·65 in.
28·50 cb.
28·35 in.
28·20 in.
28·34 in.
29·09 in.
29·24 in.
29·37 in.
29·38 in.
29·53 in.
29·68 in.
29·83 in.
29·97 in.

SCALE 1 : 2 x 10⁶
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 JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Saturday, January 2nd 1915.

REPORTS FOR YESTERDAY.

January 1st, 1915.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp.	Evening Observations: Wind. Direc.	Evening Observations: Wind. Force 0–12.	Evening Observations: Weather.	7 A.M., G.M.T.: Barometer. Millibars at M.S.L.	7 A.M., G.M.T.: Barometer. Change in 3 hours.	7 A.M., G.M.T.: Temp. Dry Bulb.	7 A.M., G.M.T.: Temp. Change in 24 hours.	7 A.M., G.M.T.: Wind. Direc.	7 A.M., G.M.T.: Wind. Force 0–12.	7 A.M., G.M.T.: Direc. of Upper Cloud.	7 A.M., G.M.T.: Weather.	7 A.M., G.M.T.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Roche's Point						962·2	*	49		SW	6	-	0	6	13	49	37
Spitzbergen	1008·4	16	SE	2	br	1010·3	*	14		SE	2	-	s	*	*	19	10
Vardö	1003·7	27	SSE	1	g	1008·7	+1	27		-	0	-	0	1	*	27	23
Bodo	1003·4	30	E	4	b	1003·3	0	32		E	4	-	br	2	-	30	28
Christiansund	999·4	43	SE	4	o	998·6	0	41		SE	3	-	o	3	-	43	36
Skudesnaes	1000·3	39	SE	10	c	1006·3	-3	39		SE	9	-	o	7	-	41	28
Faerder	1011·9	36	SSE	6	m	1007·3	+2	37		SE	7	-	o	4	-	37	34
Petrograd	1013·2	34	WSW	1	o	1016·8	+2	32		W	2	-	o	*	1	34	25
Lyons	1005·5	46	SSW	3	o	1006·0	*	37		SW	1	-	o	*	7	49	37
Lisbon	1018·6	50	SW	3	c	1011·4	-3	57		SSW	7	-	r	*	3	64	52
Horta						1017·1	+1	68		W	5	-	r	4	2	63	61
Funchal	1028·9	61	NW	3	br	1025·3	0	55		NW	3	-	br	3	-	64	55

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	-	42	34			0·0
Scotland.	St. Andrews	3	41	31	*	*	0·0
Eng., N.E.	Harrogate	2	36	29	or	or	0·0
Eng., N.E.	Scarborough	*	42	33	or	o·c	0·0
Eng., N.E.	Skegness	2	40	33	o	or·o	0·3
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	1	40	34	ogr	ogr.c.o	0·0
Midlands.	Buxton	6	35	30	c	c	0·0
Midlands.	Leamington Spa	2	42	33	or	or	0·0
Midlands.	Malvern	4	41	36	c	c	0·0
Midlands.	Ross-on-Wye	7	45	37	ora	bra	0·0
Wales.	Rhyl	2	41	36	c or	c.o	0·5
Wales.	Colwyn Bay	5	43	35	d	p	0·0
Wales.	Llandudno	4	42	38	o	o	0·0
Wales.	Aberystwyth	7	46	37	or.c	or·o	0·7
Wales.	Tenby	22	48	38	bc.or	hr	0·3
Wales.	Swansea	12	48	39	up	hr	0·1
England, E.	Cromer	2	44	31	bc.o.or	ocr	1·0
England, E.	Lowestoft	1	43	32	bc.c.o	op.u	0·9
England, E.	Felixstowe	1	42	26	cq	cpq	0·0
England, E.	Walton-on-Naze	1	42	34	bc.c	og.d.o.c	0·0
England, E.	Southend-on-Sea	3	41	35	bc.c.or	r	0·0
England, S.E.	Tunbridge Wells	9	44	30	o.or	or·o	0·0
England, S.E.	Margate	4	42	35	orq	orq	0·0
England, S.E.	Ramsgate	2	41	34	r	r	0·0
England, S.E.	Folkestone	3	43	30	c.or	bc.or	0·0
England, S.E.	Hastings	3	45	35	o	or	0·0
England, S.E.	Bexhill-on-Sea	5	45	39	or	r	0·0
England, S.E.	Eastbourne	2	46	31	orq	orq	0·0
England, S.E.	Seaford	3	46	34	c.r	r	0·0
England, S.E.	Brighton	3	46	33	or	or.c	0·0
England, S.E.	Worthing	4	45	32	o	c	0·0
England, S.E.	Littlehampton	4	47	?	ou.cr	or.c	0·0
England, S.E.	Bognor	5	46	37	or	op	0·0
England, S.E.	Southsea	7	46	38	or	or·o	0·0
England, S.E.	Bournemouth	4	47	38	or	or	0·0
England, S.W.	Weymouth	5	48	42	or	cp.bc	0·1
England, S.W.	Exmouth						
England, S.W.	Torquay	9	49	39	or.c	bc.c.or	1·3
England, S.W.	Paignton						
England, S.W.	Falmouth	16	50	38	rapk	qpk	1·5
England, S.W.	Penzance	6	51	41	cr	bc	1·7
England, S.W.	Newquay	13	50	37	cpq	cpq	1·5
England, S.W.	Ilfracombe	5	46	38	or.c	cpq.o	0·2
England, S.W.	Weston-super-Mare	8	47	37	r	r.b.bc	0·2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	93	88	0·0	48	38	33	11	ora	orq	c.bc
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	82	0·0	47	43	34	8	oc d r	r	r.bc
Camden Sq. (Brit. Rainfall)	92	84	0·0	46	39	34	9	or	or	*
Hampstead (Reservoir)	*	86	0·0	44	33	26	10	or	bcr	c
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	92	84	0·0	48	38	33	11	ora	orq	c.bc

Vertical Component of Solar Radiation per square Centimetre during Yesterday.		
Total.	Average Rate.	Max. Rate.
97 Joules	34 Milliwatts.	12 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	19	47	34	32	b.orq	orq	c.bq	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	3	40	33	28	*	ou	ou	0·0
Oxford to 8 p.m.	*	44	34	27	km oom	cm.or	or	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	45	37	27	bcg b	bc.or	or.od.	*

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

Jan. 2nd & 3rd. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.6	11.57	3.48
	8.6	11.58	3.49
Greenwich	8.8	12.4	4.0
	8.8	12.5	4.1
Wick	9.5	12.16	3.28
	9.4	12.17	3.29
Valencia	8.51	12.45	4.39
	8.51	12.46	4.40

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° locally in the south-west, but generally the maxima were below 45°. Rain fell in all districts, 18 mm. at Holyhead. Only a few stations had small records of bright sunshine.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 3 — 13rd January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	969.6	45	SE	8	ompq	977.9	+1	45	+3	S	5	S	bc	5	3	45	40	ompq	ompq	bc	*
	Deerness ...	966.1	42	SE	5	c	974.9	*	42	−1	SSE	4	SE	c	6	3	44	41	rq.w	cp.c	c.bc.b.c	0.0
	Stornoway ...	961.0	44	SSW	6	cpq	969.3	+2	43	0	S	7	S	bcq	6	6	45	40	o.bc.oq	opq	bcq	0.3
	Castlebay (Barra Isd.)	961.1	44	SW	6	cp	968.1	+3	43	−2	SE	6	SE	o	6	6	46	40	op	o.cp	c.op.o	0.1
	Glasgow ...	970.5	38	SSW	3	bc	973.9	+2	35	−3	SE	3	–	o1sp	*	4	41	33	op	ohp.bc	bersp	0.0
	Eskdalemuir ...	973.6	37	S	4	o	975.3	+1	33	−3	SSE	3	–	os	*	4	40	33	od.oq	opq.o	o.os	0.0
	Malin Head ...	964.8	43	SW	6	cq	968.8	+1	35	−8	S	5	SW	bcq	6	2	43	34	omp	cq	bcq	1.5
	Markree Castle							*							*		*	*				
	Blacksod Point	965.1	40	SSW	4	cp	968.9	+3	39	−3	ESE	5	SW	om	4	7	44	37	bc	bcq	cp	
	Valencia ...	970.9	39	S	2	o	972.6	+2	39	−6	–	o	–	b	4	7	45	37	phq	phr	ph.r	0.4
	Roche's Point	973.7	40	WSW	4	c	974.4	*	35	−6	–	o	–	b	4	1	43	35	cp.o.c	cp.o.c	cph.b	*
	Birr Castle ...	970.6	35	SW	1	c	972.6	*	32	−7	S	1	–	bc	*	2	43	31	cpq	c	bcx	3.0
	Donaghadee ...	970.1	38	SSW	3	bc	972.2	+1	32	−9	SSW	2	S	bc	2	–	42	31	bcq	bc	bcx.d.c	*
	Liverpool (Bidston)	975.9	38	S	3	c	975.8	0	35	−7	SE	3	SE	o	3	1	44	34	b	bcp	ox	4.5
	Holyhead ...	973.8	44	SW	5	bcq	974.1	+1	39	−5	S	3	–	opg	2	11	46	38	b.bc.c	bc.c	ph.cps	4.9
	Pembroke (St. Ann's)	975.3	43	SW	4	c	974.0	0	39	−8	NE	2	–	cg	3	2	46	40	cq	cq	cphq	0.8
	Scilly (St. Mary's)	978.4	45	WSW	6	cqf	973.5	−2	40	−5	NW	6	–	or	6	12	47	37	bcphq	cplq	cpq.or	2.6
	Falmouth ...	979.4	43	SW	4	bc	973.2	−2	38	−4	NW	1	–	c	3	8	46	37	bcph	bcph	bcprh	1.6
	Jersey (St. Aubin)	984.8	46	SW	5	bc	974.7	*	45	0	SE	6	SE	ogp	4	6	49	43	bc.cp	cp.bc	b.ogp	2.8
	Portland Bill ...	980.4	45	WSW	4	bcpq	973.8	−4	46	−1	SW	5	SW	cpq	6	11	47	42	bc.c	bcpar	cqf.r	*
	Dungeness ...	982.8	45	SW	7	c	980.0	−3	44	+2	SSE	5	–	orq	5	7	46	40	c.bcq	bcpq	bc.omq	*
	Dover	984.0	44	SW	5	c	980.5	−3	42	+1	SSE	6	SE	or	6	6	45	39	or.o.c	or	bcp.or	0.1
	Wick	966.0	43	S	4	c	974.0	+2	40	−3	S	5	–	bc	5	2	43	40	omp	om.cm	bcm	*
	Nairn	966.3	41	SSW	3	c	973.3	*	38	−1	SW	1	–	cg	1	–	42	36	q.bc	q.bc	c.bc	0.2
	Aberdeen ...	971.0	40	SSW	3	b	975.8	+1	41	−2	SSE	3	–	o	4	–	43	39	c.om	o.c.b	bc.c	0.0
	Leith	971.5	41	SSW	2	bc	973.5	+2	38	0	S	3	–	c	*	1	44	37	op.c	bc.b	bc.cp	*
	Tynemouth ...	974.6	40	S	3	bcm	977.2	0	35	−4	SSW	3	SW	cm	3	2	45	34	cm	cpm	bcm	*
	Spurn Head ...	978.7	40	S	4	bc	979.3	0	38	+1	S	4	–	bc	4	–	43	34	bc	bc	bc	2.5
	Yarmouth ...	982.3	40	SW	2	bc	980.9	−3	42	+2	S	3	S	or	2	0.3	46	39	bcp	bc	bc.or	1.0
	Clacton-on-Sea	983.3	42	SSW	3	bc	980.0	−3	42	0	SSE	4	S	c	3	2	45	40	cg.bc	bc	bc.cr	1.5
	Nottingham ...	978.8	40	SW	2	bc	977.9	*	36	−3	E	1	E	r	*	0.2	44	34	o.c.b	b.bc	bc.b	2.4
	Bath	979.9	40	SW	1	b	976.3	*	38	−3	E	1	E	r	*	10	48	36	p.o bc.b	prh.b	b.bc.or	4.6
	London (Kew Obsy.)	982.1	41	SSW	3	c	977.8	−4	41	0	ESE	2	–	orm	*	12	46	37	bc.bcq	bcq.cr.c	c.bc.m.orm	4.9
ICELAND, FAEROE, &c.	Spitsbergen ...	1009.6	19	–	0	b	1005.3	*	27	+8	S	8	*	o	*	*	27	18				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1011.5	28	S	6	b	1011.5	0	28	+3	SW	3	–	o	3	*	28	19				
	Bodö	1000.3	37	ESE	4	bc	1001.1	0	34	+2	E	4	–	b	2	–	37	32				
	Christiansund	989.2	43	E	4	o	989.3	0	43	+4	E	3	–	c	4	–	45	39				
	Skudesnaes ..	983.8	43	SE	6	o	986.0	+3	41	0	SSE	7	–	o	5	9	43	36				
	Færder (X'tania Fjord)	994.9	37	SE	6	o	996.3	+2	36	0	SE	6	–	r	3	8	37	34				
	The Scaw (Skagen)	992.3	37	WSW	7	o	994.6	+3	37	0	W	6	–	o	5	1	39	34				
	Blaavands Huk	986.1	38	SE	4	r	991.0	+2	39	+3	SSE	3	–	o	3	4	39	34				
	Haparanda ...	1017.0	28	S	4	o	1018.3	0	25	−7	S	4	–	o	*	–	32	23				
	Hernösand ...	1011.1	34	SE	6	o	1012.0	+1	32	−2	SE	6	–	o	*	–	36	30				
	Stockholm ...	1007.4	39	SSE	3	o	1009.2	+1	32	−2	SE	8	–	o	*	–	34	30				
	Wisby	1006.1	34	SSE	6	c	1006.6	0	32	−2	SE	6	–	o	*	–	36	30				
	Karlstad	1000.6	34	E	4	o	1001.6	+3	34	−2	ESE	6	–	s	*	20	36	30				
	Petrograd (5 a.m. G.M.T.)	1021.9	25	SW	1	o	1023.1	+1	21	−6	ESE	1	–	s	*	–	28	21				
FRANCE, &c.	The Helder ...	984.8	43	S	5	o	986.4	0	37	−2	SSE	3	–	c	2	3	45	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	984.7	40	SW	4	o	981.5	−2	41	0	SE	5	*	r	3	27	46	39				
	La Hève	986.4	43	SW	5	b	978.6	*	39	−4	SE	4	*	o	3	–	46	37				
	Ushant	974.6	49	NW	6	c	974.6	*	46		W	6	*	o	7	11	50	46				
	Brest (St. Mathieu)	984.3	48	SW	3	c	975.8	0	43	−3	NNW	3	*	r	6	14	54	41				
	Rochefort (Ile d'Aix)	993.3	46	W	5	o	980.8	−5	48	0	SSW	6	*	o	*	10	54	45				
	Biarritz	997.6	53	SW	3	o	985.0	−3	56	+4	W	5	*	r	7	10	55	48				
	Paris	990.9	43	SSW	3	c	984.2	−5	43	0	SSE	3	–	r	*	Trace	46	39				
	Belfort							*					*		*							
	Lyons	1000.0	44	SE	3	c	990.6	*	44	+1	SSW	4	*	o	*	–	51	38				
	Nice	998.6	46	–	0	b	998.9	−3	39	−5	E	5	*	r	6	2	52	39				
	Perpignan ..	993.7	43	W	1	b	991.4	−4	39	−2	–	o	–	o	*	–	59	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1009.6	57	SW	5	o	1003.0	−1	57	+2	W	6	–	o	?	8	59	55				
	Gibraltar							*														
	Rome														*							
	Azores (Horta, 8 a.m.)	1013.2	*	W	5	bc	1023.4	+3	50	−11	NNW	1	–	o	4	1	63	50				
	Madeira (Funchal)	1020.0	64	W	3	bc	1019.3	+2	61	+2	N	3	–	c	3	–	68	61				

GALES.

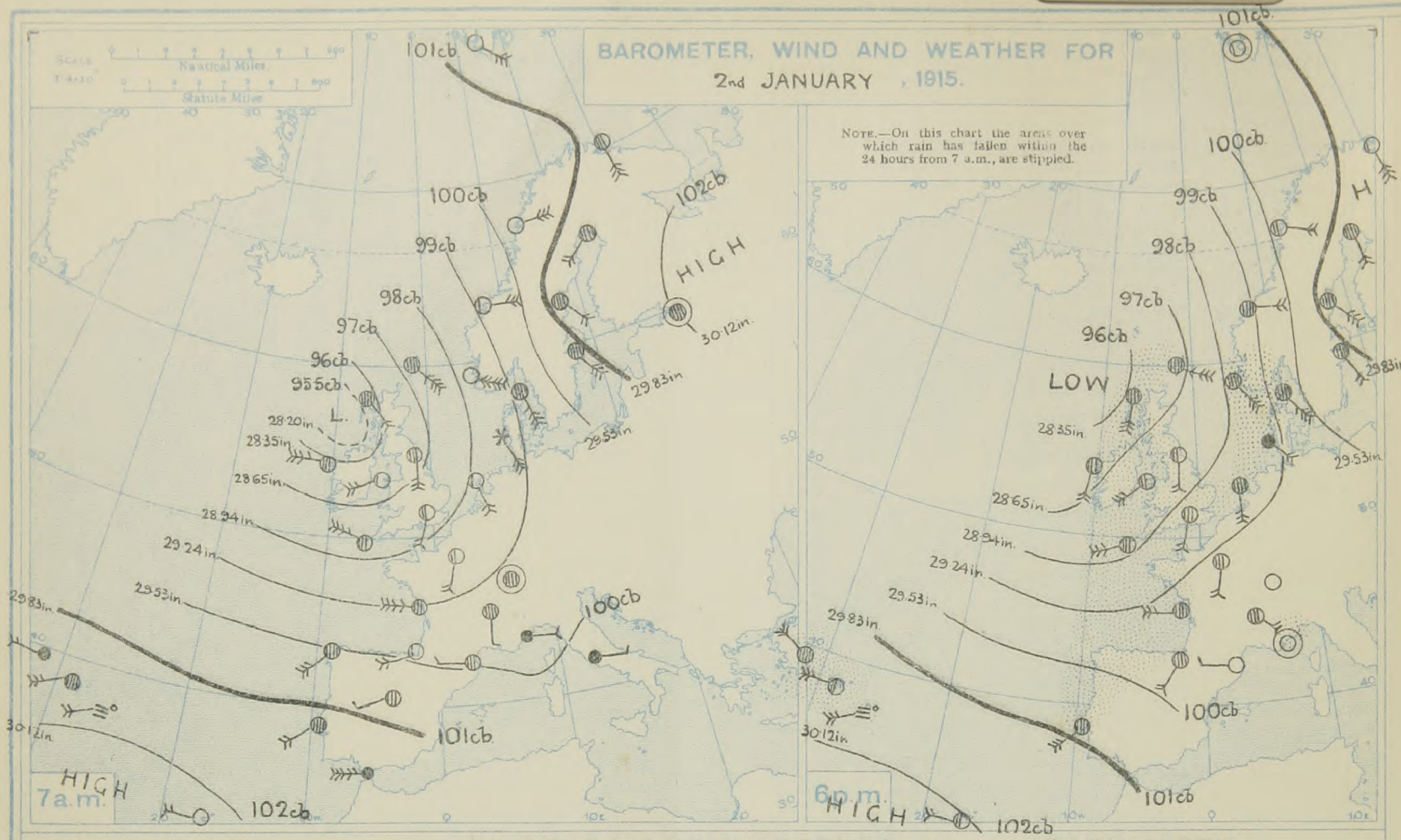
Duration and Extreme Force in British Islands.

Lerwick.
7am 2nd – 7pm 2nd SE 9 at 1pm.

Malin Head.
8am 2nd – Noon 2nd. S 8.

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

BAROMETER, WIND AND WEATHER FOR 2nd JANUARY, 1915.

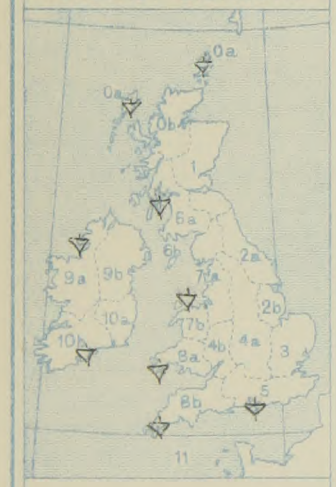


PILOT BALLOON ASCENTS for the PAST WEEK.

Component Velocities to East and to North in Metres per Second.

Station		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Date & Hour		S. Farnborough 29th 10h. 30m.		S. Farnborough 31st. 14h. 15m.		S. Farnborough 2nd 10h. 15m.									
Heights in Kilometres.	4			+11	+12										
	3			+11	+10										
	2	+11	-6	+7	+2	+15	+6								
	1	+16	-8	+11	-1	+13	+4								
	0·5	+13	-7	+7	-1	+16	+5								
	0	+6	+1	+4	0	+4	+4								
Station Date & Hour.															
Heights in Kilometres.															

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Western Channel and Bay
CONES HOISTED
AT 7.10 P.M. YESTERDAY.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 3RD JANUARY, 1915.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

HIGH

LOW Barometer falling

HIGH

29·68 in.
29·53 in.
29·38 in.
29·24 in.
29·09
28·94 in.
28·79 in.
28·65 in.
29·83 in.
29·97 in.
30·12 in.
30·27 in.
29·53 in.
29·38 in.
30·12 in.
102 cb.
101·5 cb.
101 cb.
100·5 cb.
100 cb.
99·5 cb.
99 cb.
98 cb.
97·5 cb.
97 cb.

32° 40° 50°

Inches. 31 30 29

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 JANUARY.

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 ~~~

DAILY WEATHER REPORT. Sunday 3rd January 1915.

REPORTS FOR YESTERDAY.

2nd January, 1914.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitsbergen	1011·5	27	SE	5	o	1013·5	−1	19	o	SE	5	*	b	*	*	27	19
Vardö	1011·9	30	SW	1	bc	1012·0	o	25	−2	S	6	-	c	2	-	30	19
Bodö	1002·9	27	E	2	b	1001·2	−2	32	o	E	6	-	b	2	-	32	27
Christiansund	996·4	39	SE	2	b	991·8	−1	39	−2	E	5	-	b	4	-	41	32
Skudesness	990·6	39	SE	9	o	982·9	−5	41	+2	ESE	6	-	o	4	-	44	34
Feerder	1003·1	38	SE	7	o	985·9	−3	36	−1	SE	6	-	o	4	3	37	34
Haparanda	1013·2	25	9	2	o	1015·7	+2	32		SW	4	-	o	*	-	34	10
Hernösand	1013·7	21	-	o	bc	1012·0	o	34		SE	4	-	o	*	-	36	21
Stockholm	1015·1	34	3SE	2	o	1009·5	o	34		SE	6	-	o	*	-	36	32
Visby	1014·4	34	S	2	bc	1008·2	−2	34		ESE	6	-	bc	*	-	36	30
Karlstad	1008·2	32	SE	4	o	1001·6	−5	36		SE	6	NE	o	*	-	36	28
Petrograd	1020·4	27	-	-	o	1020·2	o	27	−5	-	o	-	o	*	-	34	23
Grest	977·3	48	SW	6	10	989·6	+5	46		WNW	3	-	o	*	1	54	45
Rochefort	986·6	52	SW	7	10	990·6	+5	48	+6	W	2	-	o	*	4	54	41
Nice	1007·1	40	E	3	10	1010·3	+6	44	+5	E	2	-	o	*	8	54	39
Perpignan	1000·0	43	-	o	10	1000·0	+6	41	+5	W	1	-	o	*	10	52	36
Rome	1011·0	48	SW	1	10	1006·6	−4	48		E	1	-	o	*	1	54	46
Horta	-	-	-	-	-	1015·3	−3	61	−2	WSW	5	-	o	*	2	64	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland	Oban						
Scotland	Banff	15	42	38	bc.cg *	c *	0·0
Scotland	St. Andrews						
Eng. N.E.	Harrogate	2	43	34	o.c.bc	bc.b.	2·0
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	5	42	38	o.bc	bc	2·3
Eng. N.W.	Morecambe	6	45	38	o.bc	bc	4·3
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	7	45	37	b.bc.c	bc c.o	3·2
Midlands.	Buxton	3	39	34	c	c	2·5
Midlands.	Leamington Spa	1	46	38	bc	bcp	2·5
Midlands.	Malvern						
Midlands.	Ross-on-Wye	4	45	37	bc	oph.c	2·3
Wales.	Rhyl						
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	8	44	40	r.o.c	c.o	2·0
Wales.	Tenby	3	45	40	bc.or	bc.o	1·0
Wales.	Swansea	8	46	41	cp	bcrh	0·9
England, E.	Cromer	3	45	38	o.cr.bc	o.c bc.c	1·4
England, E.	Lowestoft						
England, E.	Felixstowe	2	45	40	bc	bc	2·4
England, E.	Walton-on-Naze	2	44	38	bc b	b.bc	2·5
England, E.	Southend-on-Sea	3	46	39	bc b	b.bc	3·0
England, S.E.	Tunbridge Wells	8	46	38	m.bc	o.c.or	1·5
England, S.E.	Margate	6	47	39	c	c.bc	0·4
England, S.E.	Ramsgate	-	45	36	o	bc	0·4
England, S.E.	Folkestone	11	45	37	cr.c	cr.cr	0·1
England, S.E.	Hastings	15	46	40	or.c	or	0·0
England, S.E.	Bexhill-on-Sea	15	47	41	or	r.or	0·0
England, S.E.	Eastbourne	23	46	40	op	op	0·0
England, S.E.	Seaford	15	48	41	cr	r.o	0·1
England, S.E.	Brighton	7	47	42	bc.c.or	r.op.o	0·9
England, S.E.	Worthing	3	45	41	bc	cr	0·7
England, S.E.	Littlehampton	22	47	*	r.c.bc.c	r.bc.r.c	0·7
England, S.E.	Bognor	22	46	40	b.bchr	or	0·6
England, S.E.	Southsea						
England, S.E.	Bournemouth	5	46	40	bcr	bc	2·3
England, S.W.	Weymouth	2	48	43	bc	bcp c	1·7
England, S.W.	Exmouth						
England, S.W.	Torquay	5	44	41	bc	p.bc.c.o.c	1·3
England, S.W.	Paignton	5	45	40	bcp	bcp	1·3
England, S.W.	Falmouth	9	46	40	bcph	bchp	1·6
England, S.W.	Penzance	8	47	41	ophr.c	bc	2·0
England, S.W.	Newquay	5	45	39	bcqph	bcqph	1·0
England, S.W.	Ilfracombe	9	46	39	cp.c	cp.c	1·7
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	80	94	5·3	46	35	29	4	b.bc	bc.o op	bc.o
City (Bunhill Row)	*	*	1·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	62	92	3·6	48	41	32	10	bc	bc.r	oe
Camden Sq. (Brit. Rainfall)	79	95	3·0	46	36	31	10	bc	bc.or	*
Hampstead (Reservoir)	*	94	4·0	45	32	24	8	bc.c	c.or	or
Richmond Park	*	*	5·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	79	91	4·8							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
258 Joules	9·1 Milliwatts.	16 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	9	42	38	38	orq	b	bc	*
Darwen to 9 p.m.								
Manchester ,,	1	45	37	*	op	o.bc.o	o.c.b.	2·3
Birmingham ,,	0·3	43	35	33	o	c	c	1·3
Oxford to 8 p.m.	*	46	38	30	o.or.o	or.c m b	b.bc.b	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	7	47	41	31	o.b	b	b or b	*

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

3rd & 4th January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6 / 8·5	11.58 / 11.58	3.49 / 3.50
Greenwich	8·8 / 8·8	12.5 / 12.5	4.1 / 4.2
Wick	9.4 / 9.3	12.17 / 12.17	3.29 / 3.30
Valencia	8.51 / 8.50	12.46 / 12.46	4.40 / 4.41

NOTES ON YESTERDAY'S WEATHER.

Rain fell in almost all places, the largest measurements reported being 12 mm. at Scilly and in London. Several parts of England experienced a considerable amount of bright sunshine, nearly 5 hours at some stations.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 4

Monday, 4th January, 1915.

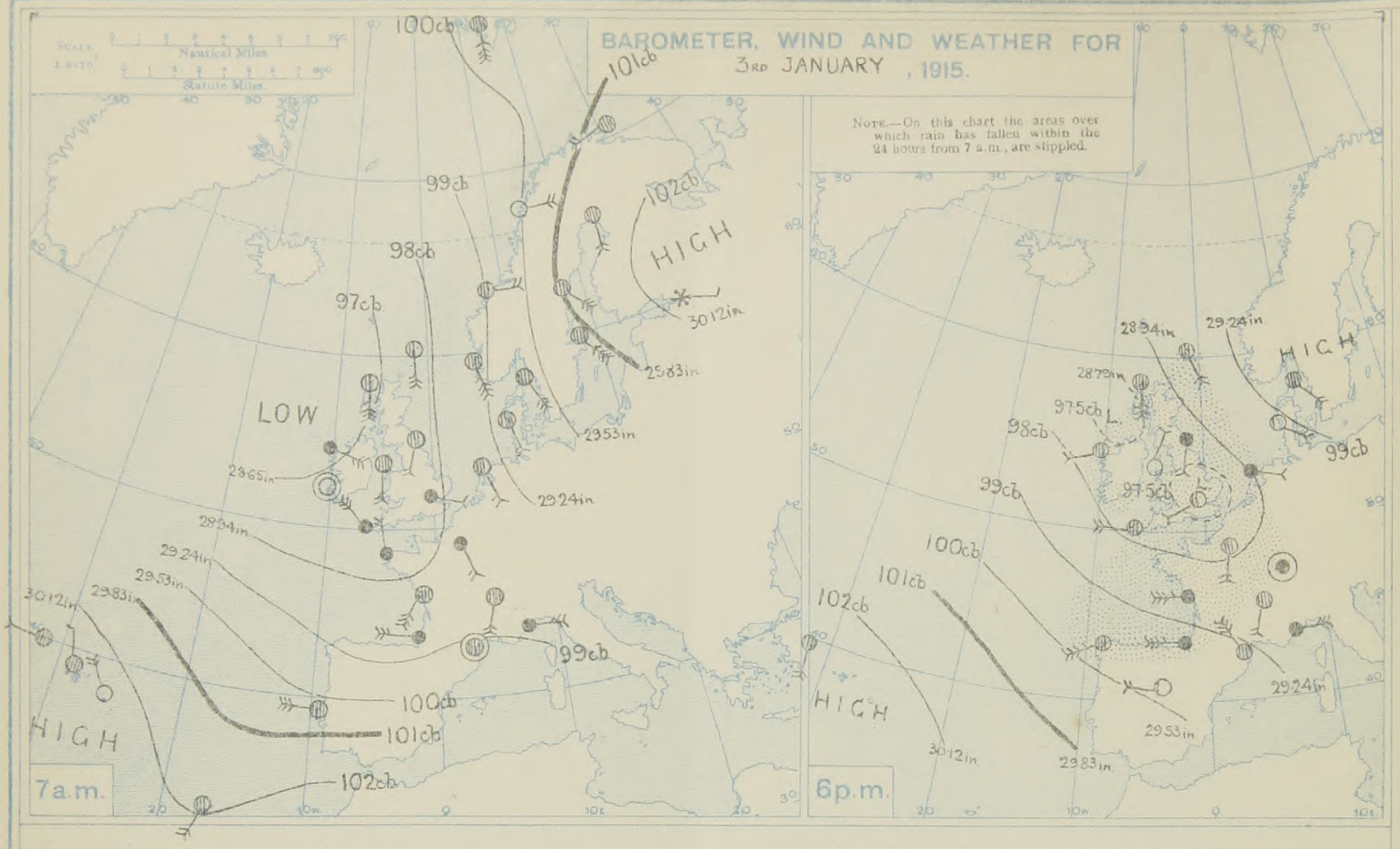
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M. G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rain-fall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	983.4	44	SSE	4	c	993.6	+3	43	-2	SE	6	SE	cqp	5	9	45	39	cpq	cp	cqp	*
	Deerness ...	981.0	41	W	3	c	†992.1	*	43	+1	ESE	4	–	op	5	4	44	39	c.o	o.c	op.o	0.0
	Stornoway ...	977.1	43	S	6	cqr	987.6	+4	38	-5	S	2	–	b	2	–	43	37	bcq	bc.qr	bcq b	1.0
	Castlebay (Barra Isd.)	974.6	43	SSE	5	op	988.6	+5	43	+1	SE	4	SE	bc	4	0.2	44	41	*	op	op.o bc	0.0
	Glasgow ...	979.9	34	E	1	c	986.8	+3	34	-1	W	1	–	od	*	1	38	31	o.c	c	b.bc.oz	0.7
	Eskdalemuir ...	979.5	34	N	2	o	985.3	+3	37	+4	N	3	–	o	*	1	37	33	o.c	cs	o	0.8
	Malin Head ...	974.8	37	S	4	cpm	984.0	+4	38	+3	SW	2	SW	cg	3	1	38	35	bcq	cq	cg	1.5
	Markree Castle							*							*							
	Blacksod Point	979.5	43	WSW	3	cmp	985.3	+6	44	-5	W	4	W	cp	4	7	46	37	omr	omr	cmp.bc	*
	Valencia ...	979.3	39	SE	1	bc	990.5	+8	49	+10	W	4	–	c	4	3	49	35	ph.r	p	cp	2.3
	Roche's Point	977.9	39	NW	2	b	990.6	*	39	+4	NW	3	NW	bc	3	1	44	34	bc.b	b	b.op.bc	*
	Birr Castle ...	977.9	37	S	1	o	987.0	*	35	+3	SW	1	–	c	*	–	42	30	bcx	bc c.o	c.c	5.7
	Donaghadee ...	977.6	35	SW	2	bcmx	987.3	+1	35	+3	NW	2	–	bfx	1	–	40	31	bcg	bcm	bcmz.f	*
	Liverpool (Bidston)	977.3	38	ENE	1	r	984.2	+4	40	+5	SW	4	W	o	3	6	41	33	og	or	or	0.0
	Holyhead ...	977.6	41	NE	2	bm	985.8	+3	43	+4	NW	4	N	bm	3	1	44	36	o.cm	c.bcm	b.bc.b	0.3
	Pembroke (St. Ann's)	977.9	43	NNW	3	c	987.6	+5	45	+6	NW	3	N	c	3	2	45	38	cg	cp	c	0.0
	Scilly (St. Mary's)	979.3	43	W	4	cv	990.5	+4	47	+7	WNW	6	NW	cg	7	1	47	38	cpq	bc.cv	bcvqp	3.4
	Falmouth ...	979.3	36	NW	2	bc	990.3	+5	41	+3	WNW	3	–	bc	4	4	43	36	bcp	cp	bc	2.0
	Jersey (St. Aubin)	977.5	44	WNW	4	c	988.8	*	45	0	WNW	4	NW	c	4	4	48	40	c.op	cpc	cp	0.3
	Portland Bill ...	975.4	43	WNW	5	cu	985.7	+4	45	-1	WNW	5	NW	c	4	13	46	39	qp.c.o	o	c.ber	*
	Dungeness ...	973.4	44	SW	4	o	980.9	+3	38	-6	SW	4	–	o	4	7	45	37	or	or.or	c.o	*
	Dover	974.7	41	SW	2	bc	980.6	+2	37	-5	W	3	W	c	1	4	44	36	r.o	or.bcp	bcp.r.c	0.0
	Wick	980.6	41	SSE	5	o	989.7	+5	43	+3	SE	3	–	o	4	2	44	40	bcm	bcm.om	ompd	*
	Nairn	980.0	34	–	0	b	989.2	*	32	-6	–	0	–	ou	0	0.2	41	27	c.bc	bc	bc.cp	1.8
	Aberdeen ...	981.3	42	SSE	3	bc	988.7	+3	41	0	E	5	–	r	4	7	43	37	o.c	bc	c.orhp.op	0.3
	Leith	979.9	37	SW	1	b	984.5	+2	42	+4	NE	2	–	r	*	2	43	33	c.bc	bc.bq	c.od	*
	Tynemouth ...	978.6	37	SSW	2	otm	982.4	+1	42	+7	NE	3	–	o	4	7	43	33	om	om	om	*
	Spurn Head ...	975.5	39	ESE	6	r	980.6	+3	39	+1	SW	1	–	om	5	10	41	37	og	or	or	0.0
	Yarmouth ...	974.7	42	SE	5	or	980.6	+3	38	-4	SSW	1	–	o	1	8	43	36	or.o	or	o	0.0
	Clacton-on-Sea	972.7	43	SE	4	og	979.5	+3	37	-5	WSW	2	–	og	2	3	43	36	c.ogd	ogr	og	0.0
	Nottingham ...	974.7	40	E	3	r	981.1	*	40	+4	N	4	ri	o	*	11	41	34	or	r	r	0.0
	Bath	975.3	38	NW	2	r	985.3	*	40	+2	NNW	1	NW	o	*	23	42	37	or	r	r.o	0.0
	London (Kew Obsy.)	973.5	39	WSW	2	bc	981.9	+9	35	-6	W	3	–	otg	*	9	44	34	om.or.odq	or.op	bc.or	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)	997.0	38	SE	4	o	1000.2	+2	36	-1	SE	6	–	o	5	–	41	36				
	Blaavands Huk	989.7	36	ESE	3	b	990.4	+1	34	-5	ESE	6	–	o	?	–	?	?				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	980.0	39	ESE	2	r	983.9	+4	39	+2	SE	2	–	c	1	6	41	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	974.1	44	SSW	6	c	980.8	+3	40	-1	W	6	*	o	5	5	46	39				
	La Hève	978.0	41	SW	4	o	986.6	*	37	-7	W	4	*	c	4	4	46	36				
	Ushant	982.6	46	NW	5	o	993.2	*	48	+2	NW	5	*	c	7	8	48	41				
	Brest (St. Mathieu)	982.9	45	NW	4	c	996.7	+7	46	+3	NW	5	*	c	5	9	54	39				
	Rochefort (Ile d'Aix)	986.1	43	W	7	r	1001.7	0	44	-4	WNW	6	*	r	*	8	60	48				
	Biarritz	992.2	50	W	7	r	996.7	0	48	-8	WSW	7	*	o	7	9	55	41				
	Paris	979.9	41	SSW	4	b	988.6	+4	34	-9	SSW	3	–	b	*	1	46	34				
	Belfort	986.9	34	–	0	r	992.3	*	34		WSW	4	*	o	*	7	39	33				
	Lyons	986.1	46	SSW	3	o	994.3	*	37	-7	SSW	4	*	b	*	–	53	35				
	Nice	990.4	44	E	5	r	990.7	+4	42	+3	W	6	*	b	4	44	48	39				
	Perpignan ..	990.9	48	NW	6	o	997.7	+5	47	+8	NW	3	–	o	*	–	57	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	997.7	50	WSW	7	c	1011.8	+8	50		NW	6	–	bc	6	12	60	45				
	Madrid (8 a.m.)	999.0	43	W	3	b	1011.3	+6	37		W	1	–	c	*	1	48	34				
	Lisbon (9 a.m.)																					
	Gibraltar							*														
	Rome														*							
	Azores (Horta, 8 a.m.)	1024.6	*	WSW	3	b																
	Madeira (Funchal)	1021.0	64	N	4	bc	1025.2	+1	60		NE	3	–	b	3	–	70	59				

RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

0 (a, b) 1 — Variable breezes between South-East and North-East, fresh and gusty at times in places; changeable, some rain, sleet or snow, fair or fine intervals; cold.

2 (a, b) 3 — Light to moderate North-Easterly and Northerly breezes; dull, some rain, sleet or snow, fair intervals; cold.

4 (a, b) 5 — North-Westerly to Northerly breezes, fresh and gusty at times; some rain, sleet or snow, fair or fine intervals; cold.

6 (a, b) 7 (a, b) 8 (a, b) —

9 (a, b) 10 (a, b) — Light to moderate Westerly and North-Westerly breezes. Changeable, some rain or sleet, fair or fine intervals; cold.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

Millibs. Inches
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., MONDAY, 4TH JANUARY, 1915.

GENERAL INFERENCE.

With pressure relatively high to the northward and south-westward, changeable conditions are likely to be maintained for the present.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

Millibars. Inches.
108 — 31
104
100
96
92
88 — 30
84
80
76
72 — 29

99·5cb
100cb
99cb
98·5cb
99cb
99·5cb
100cb
100·5cb
101cb
40°
50°
HIGH
LOW
HIGH
Barometer rising
29·09in.
29·03in.
98·5cb
98cb
L.
28·94in.
29·09in.
29·24in.
29·53in.
29·38in.
29·24in.
29·38in.
29·53in.
29·68in.
29·83in.

Scale 1 : 2 x 10^6
Nautical Miles 0 1 2 3 4 5 6 7 8 9 10
Statute Miles 0 1 2 3 4 5 6 7 8 9 10 11 12

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

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. ⊤ᵣ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

DAILY WEATHER REPORT. Monday, 4th January, 1915.

REPORTS FOR YESTERDAY.

3rd January 1914.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	39	32	og.c	bc.b	1·4
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	9	33	31	oms	omrs	0·0
Eng., N.E.	Scarborough	"	42	34	o	o	0·0
Eng., N.E.	Skegness	5	42	37	or.o	o	0·0
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	1	40	33	o	or	0·0
Eng., N.W.	Southport	1	38	33	c.o	or	0·0
Midlands.	Buxton						
Midlands.	Leamington Spa	11	41	30	cr	cr	0·0
Midlands.	Malvern	9	36	33	c	r	0·0
Midlands.	Ross-on-Wye	9	39	32	or	ogmrs	0·0
Wales.	Rhyl	1	45	34			1·3
Wales.	Colwyn Bay	4	40	35	c	bc	1·6
Wales.	Llandudno	–	46	37	bc	o	2·0
Wales.	Aberystwyth	3	41	37	r.o	c.o.	0·3
Wales.	Tenby						
Wales.	Swansea	11	41	37	o.c	b.	0·0
England, E.	Cromer						
England, E.	Lowestoft						
England, E.	Felixstowe	7	43	40	cd	org	0·0
England, E.	Walton-on-Naze	4	44	39	ogc	r.o.c.	0·0
England, E.	Southend-on-Sea	6	42	38	or.r	r.or.c	0·0
England, S.E.	Tunbridge Wells	13	43	37	om.o	or.o	0·0
England, S.E.	Margate	8	45	39	op	op	0·0
England, S.E.	Ramsgate	4	42	37	om	or	0·0
England, S.E.	Folkestone	6	44	40	cr	r.ov	0·0
England, S.E.	Hastings	12	45	38	or	o	0·0
England, S.E.	Bexhill-on-Sea	5	46	41	or	r.o	0·0
England, S.E.	Eastbourne	16	46	39	op	od	0·0
England, S.E.	Seaford						
England, S.E.	Brighton	11	46	40	op.o	p.c.o	0·9
England, S.E.	Worthing	9	45	40	o	bc.r.e	0·5
England, S.E.	Littlehampton	11	46	34	cr.c	r.c.o	0·1
England, S.E.	Bognor	16	46	38	or	p.c.	0·5
England, S.E.	Southsea	13	45	?	or	or.o	0·0
England, S.E.	Bournemouth	20	42	37	r.o	c.o	0·3
England, S.W.	Weymouth	18	40	40	or	c	0·0
England, S.W.	Exmouth						
England, S.W.	Torquay	5	43	38	o	bc.cp	1·6
England, S.W.	Paignton						
England, S.W.	Falmouth	8	43	36	bcp	cp	2·0
England, S.W.	Penzance						
England, S.W.	Newquay	8	43	36	cm.cqp	cqph.	0·7
England, S.W.	Ilfracombe	2	44	36	o	o	0·0
England, S.W.	Weston-super-Mare	3	44	35	od	c	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.)	97	93	–	43	33	32	9	op	op	op.3p
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	95	98	–	44	37	32	9	r	r	or.od
Camden Sq. (Brit. Rainfall)	–	98	–	43	33	32	11	–	–	*
Hampstead (Reservoir)	*	100	–	42	28	26	8	or	orf	or3od
Richmond Park	*	*	0·0							
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
"77 Joules	2·7 Milliwatts.	7 Milliwatts.

S. Kensington (Roof of M.O.)	–	93	0.0

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	–	39	33	30	bcx	b	bm	*
Darwen to 9 p.m.								
Manchester "	9	38	35	*	or	o	or	0·0
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9pm.	6	45	39	35	c or c	c	cp	1·6
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	11	44	38	32	or.bco	o.opm	opm.bc	*

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

4th & 5th January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	11.58	3.50
	8.5	11.58	3.51
Greenwich	8.8	12.5	4.2
	8.7	12.5	4.3
Wick	9.3	12.17	3.36
	9.2	12.17	3.52
Valencia	8.50	12.46	4.41
	8.50	12.46	4.42

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° in most places, below 40° locally. Rain sleet or snow fell generally, 23 mm. at Bath. Some western stations had fair sunshine records, Birr Castle 5·7 hrs, but as a rule there was little or none.

Note.—The information relating to weather is indicated by the following letters—b. blue sky: bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; g. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 5

Tuesday, 5th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1002.6	41	SE	6	cglp	1002.4	−2	39	−4	SE	3	–	c	5	4	43	37	cg	cglp	c.cp	*
	Deerness ...	998.6	41	ESE	5	r	999.3	*	40	−3	SE	4	S	bc	5	4	44	39	cp	cp	p.c.c.bc	0.0
	Stornoway ...	996.0	39	E	2	bc	997.0	−5	43	+5	SSE	6	–	cg	5	–	43	35	bc.b	bc	bc.cg	3.4
	Castlebay (Barra Isd.)	994.3	43	E	2	b	989.5	−5	43	0	SE	6	–	cp	6	Trace	45	41	bc.b	b	bc.b.cp	4.9
	Glasgow ...	994.7	40	NNE	1	0	998.0	−1	35	+1	ENE	1	SE	c	*	0.2	41	33	cg	c.cd.dp	b.bm.c.c	0.0
	Eskdalemuir ...	994.1	39	NE	2	cd	999.4	−1	37	0	SSE	3	–	c	*	1	40	35	c	cd	c.bc b.c	0.0
	Malin Head ...	992.5	40	S	3	bc	989.2	−5	39	+1	S	6	–	omr	5	1	44	37	b, q	bc	om	2.4
	Markree Castle							*							*		*	*				
	Blacksod Point	995.8	41	WSW	3	cmlp	991.3	+4	46	+2	SW	5	W	cmlp	5	7	47	42	bcm	cmlp	cmlp or	*
	Valencia ...	1001.0	48	WNW	5	bc	996.3	+3	49	0	SW	5	–	b	5	13	51	45	clph	clp	c.c.b	1.8
	Roche's Point	1000.5	45	NW	3	bc	997.3	*	48	+9	W	2	–	b	3	7	49	39	bclp	bc	or.b	*
	Birr Castle ...	997.3	44	SW	1	c	993.9	*	42	+7	SE	4	–	r	*	3	47	34	c.c	cp	c.c.or.	1.9
	Donaghadee ...	994.6	36	WNW	2	bfg	995.7	−3	41	+6	S	3	–	ogmp	2	0.2	42	33	bc ogm	bcm bf	f.ogmp	*
	Liverpool (Bidston)	994.1	40	WNW	3	b	1000.1	−1	39	−1	SSE	3	–	o	2	–	44	36	o.bc	bc.c	o	3.6
	Holyhead ...	995.2	44	NW	4	om	998.0	−1	46	+3	SW	4	–	omr	3	0.4	46	42	b.bc.c	c.c.c.o	b.bc.cp	3.1
	Pembroke (St. Ann's)	996.8	48	WNW	4	c	1000.4	−2	45	0	SSW	4	SW	cglp	4	1	48	45	c	c	cgp	1.6
	Scilly (St. Mary's)	1001.4	49	WNW	7	c	1001.2	−3	48	+1	S	4	–	or	7	4	51	41	bcmq	bcmq	bcq.or	4.2
	Falmouth ...	999.6	46	NW	4	b	1002.7	−4	45	+4	S	3	–	r	4	3	50	41	bc	bclp	b.or	5.0
	Jersey (St. Aubin)	996.7	48	NW	5	cp	1005.7	*	48	+3	W	5	W	cg	3	3	51	44	c	bc.cglp	bq.b.dp	4.6
	Portland Bill ...	995.1	46	WNW	5	bclp	1003.7	+2	45	0	W	4	W	bc	4	1	48	41	bc	bclp	bc.c	*
	Dungeness ...	992.0	42	NW	2	0	1001.9	+2	34	−4	NW	1	–	bzy	1	1	42	33	clps.0	0.c.0	bc bzy	*
	Dover	992.1	41	W	4	or	1003.4	+4	36	−1	NW	3	NW	b	2	1	41	35	c 0	cd.or	or.bc	0.0
	Wick	997.8	43	SSE	5	0	998.1	−3	42	−1	SE	5	–	0	5	2	44	41	omr	omr.p	omper	*
	Nairn	996.5	39	-	0	omq	996.1	*	35	+3	–	0	–	c	1	0.3	39	31	me	mq	0.cx	0.0
	Aberdeen ...	996.8	42	ESE	5	cd	999.2	−2	41	0	SSE	4	–	c	5	3	44	40	orq	oq.r.d	cdq.cp	0.0
	Leith	993.8	43	SE	1	0	995.0	−2	39	−3	NE	2	SE	bc	*	1	43	37	cd	cd	c	*
	Tynemouth ...	993.4	43	ESE	2	bcm	1000.0	+1	42	0	ESE	3	SE	bc	4	5	43	40	omlp	bcm	bcm	*
	Spurn Head ...	991.2	36	NNE	3	0	998.3	+3	37	−2	–	0	–	bc	5	0.4	40	37	om	om	om	0.0
	Yarmouth ...	990.1	39	NW	2	bc	1000.8	+3	38	0	W	1	–	bcm	1	1	40	36	0.cm	or.cm bc	or.bcm	0.0
	Clacton-on-Sea	990.7	39	NW	2	cgmd	1001.7	+4	38	+1	WNW	2	NW	bc	1	2	39	36	cg.cm	cgmd	cgmr.c	0.0
	Nottingham ...	992.1	41	NW	2	r	1001.7	*	33	−7	–	0	–	f	*	1	42	33	odm	omr	r.0	0.0
	Bath	995.0	44	W	1	b	1003.0	*	41	+1	W	1	W	0	*	1	48	39	cq.bc	0.bc.b.p	b.bc.dp	3.4
	London (Kew Obsy.)	993.2	40	W	2	b	1003.5	+2	36	+1	WSW	1	W	bcmz	*	3	43	34	or.om.s.ad	bm bc.b	b.bc.o.bcmz	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1002.7	34	ENE	6	0	1005.2	+2	30	−6	E	7	–	o	5	–	36	30				
	Blaavands Huk	994.0	36	E	6	m	997.9	+3	32	−4	ENE	4	–	o	5	Trace	39	30				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	990.4	39	–	0	0	998.1	+5	39	0	NNW	1	–	o	1	1	41	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	991.5	42	WNW	6	r	1001.6	+3	41	+1	WNW	4	*	bc	4	1	45	39				
	La Hève	994.9	45	WNW	4	r	1002.7	*	45	+8	NW	4	*	c	5	5	48	37				
	Usbant							*					*									
	Brest (St. Mathieu)	1003.8	50	NW	5	c	1006.9	0	48	+2	S	4	*	r	5	2	54	46				
	Rochefort (I'e d'Aix)	1003.8	48	NW	6	c	1012.8	+4	48	+4	W	6	*	c	*	5	50	44				
	Biarritz	1008.3	46	W	7	o	1017.1	0	51	+3	W	5	*	b	8	11	52	46				
	Paris	995.7	43	WSW	4	b	1005.1	+5	43	+9	W	3	–	o	*	Trace	45	34				
	Belfort							*					*		*							
	Lyons	1000.2	39	NW	3	0	1009.9	*	40	+3	SW	2	*	c	*	3	48	37				
	Nice	996.6	43	-	0	b	1005.6	+4	43	+1	–	0	*	b	0	–	52	37				
	Perpignan ..	1004.8	48	NW	4	b	1015.7	+7	46	−1	W	3	NW	c	*	1	55	41				
	Sanguinaire ...	1000.7	50	NW	6	m	1003.9	*	50	+4	NW	4	*	0	6	–	54	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018.6	50	NW	5	0	1022.0	+3	55	+5	WSW	4	–	r	5	1	55	46				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1026.1	50	NW	4	b	1029.1	*	47		NW	5	–	bw	1	–	55	46				
	Rome														*							
	Azores (Horta, 8 a.m.)	1022.7	*	SW	5	0																
	Madeira (Funchal)																					

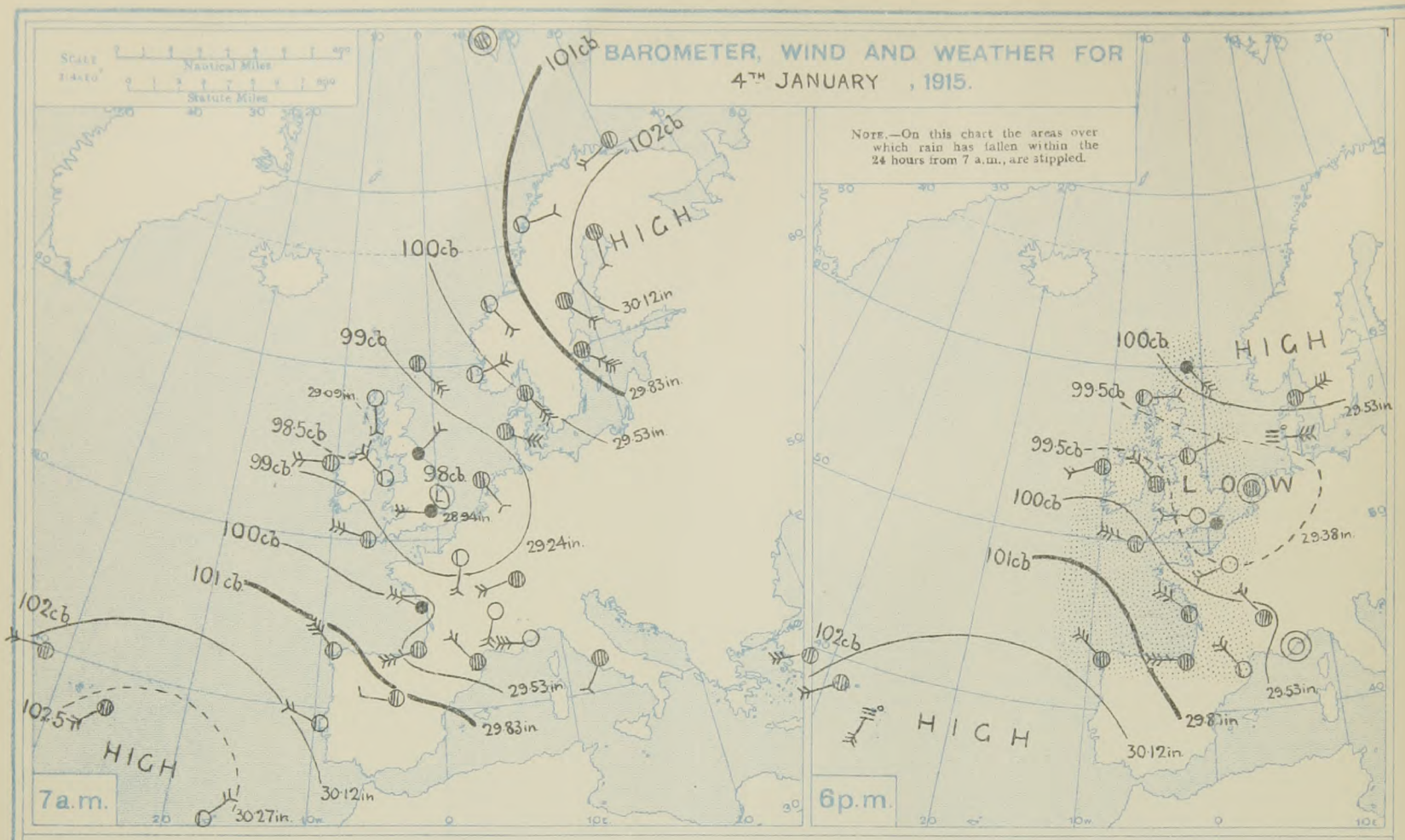
RAINFALL.

Equivalents of Millimetres, in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

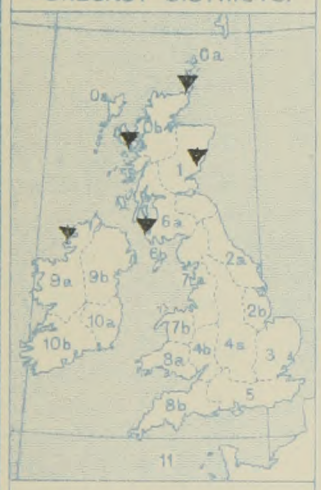
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 4TH JANUARY , 1915.



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted to-day at 8.15 a.m. in Districts 0, 1, 6 & 9.

Western Channel and Bay 11

0 {a b} 1 — Freshening South-Easterly to South-Westerly winds, strong to a gale in places; fair to dull, some rain, sleet or snow; rather cold.

2 {a b} 3 4 {a b} 5 — Light variable airs, becoming Westerly to Southerly and freshening again; fair to dull, some rain, sleet or snow; rather cold.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} — Freshening Southerly winds, veering Westerly, unsettled, some rain or sleet; rather cold.

9 {a b} — Same as Nos. 0 and 1.

10 {a b} — Southerly to Westerly winds, fresh at times; changeable, some rain or sleet, fair intervals; moderate temperature.

FURTHER OUTLOOK.

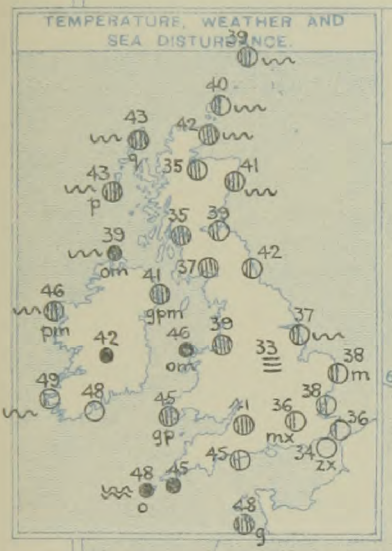
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 5TH JANUARY, 1915.

GENERAL INFERENCE.

With the existing complex distribution of pressure the conditions are likely to remain of a generally unsettled type.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Inches.
31
30
29

LOW
HIGH
LOW
HIGH

2968in
2953in
29·38in
29·24in
1005cb.
100cb.
99·5cb.
99cb
2938in.
2953in.
100cb.
100·5cb.
101cb
101·5cb
102cb
102·5cb
2997in
2983in
2968in
3012in
3027in.
Barometer falling
Barometer rising
Bar. rising

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 JANUARY.

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 ~~~.

DAILY WEATHER REPORT. Tuesday, 5th January, 1915.

REPORTS FOR YESTERDAY.

4th January 1915.

STATIONS.	EVENING OBSERVATIONS, Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitsbergen	1004·2	24	–	0	o	1004·7	0	21	-6	–	0	*	c	*	*	27	21
Vardö	1009·2	25	WSW	7	b	1016·2	+2	23	-5	WSW	3	–	c	3	*	28	23
Bodö	1005·2	34	E	5	b	1010·1	+2	34	0	E	2	–	b	2	–	36	32
Christiansund	997·6	41	E	3		1003·0	+4	39	-4	SE	3	–	b	3	–	43	39
Skudesnaes	991·9	39	SE	5	o	997·0	+3	39	-2	ESE	4	–	bdc	2	–	43	36
Færder	1000·2	34	E	6	r	1004·6	+3	34	-2	SSE	5	N	c	3	8	37	32
Haparanda	1020·2	25	S	6	o	1023·9	+3	23	-2	S	2	–	o	*	–	25	19
Härnösand	1014·4	30	SE	*	o	1017·9	+1	28	-4	SE	4	–	o	*	1	32	27
Stockholm	1009·6	30	SE	6	o	1012·8	+1	30	-2	SE	8	–	o	*	–	32	28
Wisby	1007·5	30	SE	6	o	1010·1	+2	28	-4	SE	4	–	o	*	Trace	32	28
Karlstad	1004·4	30	E	6	s	1009·0	+3	28	-6	E	4	–	s	*	26	34	27
Sanguinaire	991·9	53	S	4	o	992·2	*	46		NW	5	*	bc	6	15	55	41
Lisbon	1009·9	52	NW	5	c	1017·0	+4	48	-9	WNW	3	–	b	3	10	55	43
Rome	996·3	57	S	2	o	994·4	0	54		SW	2	–	o	*	4	57	54

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	45	29	bzy	bz	4·1
	Banff	6	42	33	ogd mr	od	0·0
	St. Andrews	12	44	34	*	*	0·0
Eng. N.E.	Harrogate	20	38	33	ofp	ofp	0·0
	Scarborough	*	42	38	o	or	0·0
	Skegness	3	40	36	o	o	0·3
Eng. N.W.	Morecambe	4	43	36	bc.	bc	0·1
	Blackpool						
	Southport	7	42	34	c.bc	c.b	2·8
Midlands.	Buxton	15	38	32	cr	cz	0·0
	Leamington Spa	7	44	38	cr	bc	2·5
	Malvern	9	44	33	bc	b	4·7
	Ross-on-Wye						
Wales.	Rhyl	1	45	35	c.bc	bc.c	2·7
	Colwyn Bay	–	44	36	bc	bc	3·4
	Llandudno	–	47	41	bc	bc	3·4
	Aberystwyth	–	45	39	o.c.o	c.o	0·5
	Tenby	–	47	32	bc	bc.o	2·5
	Swansea	1	48	37	bc.b	p.r	2·9
England. E.	Cromer	2	41	36	o.c	o.c	0·0
	Lowestoft	?	39	35	o	o.c.or	0·0
	Felixstowe	1	39	36	ond	or	0·1
	Walton-on-Naze	1	39	35	ogd	bc.o.c	0·3
	Southend-on-Sea	1	41	35	r.oc	or	0·0
England. S.E.	Tunbridge Wells	2	42	33	ons.ofp	o	0·0
	Margate	–	42	36	o	o	0·0
	Ramsgate	3	49	34	od	d	0·0
	Folkestone	1	41	36	ome	ome	0·0
	Hastings	2	43	33	c.os	c.o	0·0
	Bexhill-on-Sea	5	47	41	r.o	or.o.c	0·0
	Eastbourne	4	44	35	ofs	o.bc.b	1·0
	Seaford	5	44	36	r	bc	1·1
	Brighton	5	44	37	or.r.o	o.c.bc.b	1·2
	Worthing	5	45	35	d	bc	2·0
	Littlehampton	6	45	37	c.bc.c	bc.b.bc	3·0
	Bognor	8	46	36	or.bc	bc.b.	3·0
	Southsea	8	46	36	o.c	bc	4·0
	Bournemouth	–	48	37	c.bc	bc.c	3·5
England. S.W.	Weymouth	–	48	39	bc.b	b.bc.	4·0
	Exmouth						
	Torquay	0·3	49	38	b	b.bc.c	4·7
	Paignton	1	50	36	bc.bcp	bcp	4·7
	Falmouth	1	50	37	bc	bcp	5·0
	Penzance	4	51	36	bcpr	bc	5·4
	Newquay	1	49	40	bcqp	bcqp	3·9
	Ilfracombe	–	49	43	c.bc.b	b.bc.c.o	3·2
	Weston-super-Mare	–	46	35	bc.b	b.p.bc	4·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.)	88	97	0.0	43	33	28	1	op	op	bbxbc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	98	0.0	44	33	29	1	od	o	o.bc.or
Camden Sq. (Brit. Rainfall)	84	100	0.0	43	33	27	1	orgmq	or.o	*
Hampstead (Reservoir)	*	98	0.0	41	30	19	3	c.o	c.o	c.oc.of
Richmond Park	*	*	0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	87	0.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
86 Joules	3.0 Milliwatts.	8 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	1	44	31	30	bc.c	bcp	p.c	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	9	42	33	31	r.o	o	b.c	2·4
Oxford to 8 p.m.	*							*
Teignmouth to 9pm.	1	49	36	35	bc	bc.bcp	bc	4·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	43	34	28	ob.m.ors	or.ogd.o	o.c.bcm	*

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

5th & 6th January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5 / 8.6	11.58 / 11.59	3.51 / 3.52
Greenwich	8.7 / 8.6	12.5 / 12.6	4.3 / 4.5
Wick	9.2 / 9.1	12.17 / 12.18	3.32 / 3.34
Valencia	8.50 / 8.50	12.46 / 12.47	4.42 / 4.43

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° locally in the south-west, but in many localities the maxima were below 45°. Rainfall ranged up to 13 mm. at Valencia. Several stations had no bright sunshine, but Falmouth had 5 hrs., and Penzance 5½ hrs.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 6

Wednesday, 6th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	997·9	40	SE	8	omq	997·3	0	41	+2	SE	6	–	omq	6	3	41	37	odm	omdq	omqp	*
	Deerness ...	992·2	41	SE	6	dpqw	995·6	*	38	−2	SSW	2	–	b	4	6	43	38	bc.dp	dp.w	p.c.bc.b	0·0
	Stornoway ...	988·9	41	S	3	bc	993·5	+2	38	−5	SW	4	SW	c	4	10	44	37	orq	orq, bc	bc.cp	0·0
	Castlebay (Barra Isd.)	989·1	47	SW	4	b	995·2	+2	43	0	SW	5	–	0	5	7	48	39	dp.bcp	bcp.b	dhp.bc	0·5
	Glasgow ...	994·9	41	WSW	2	c	1000·0	+2	39	+4	SW	3	–	bc	*	2	42	35	od	omd.p	c.bc	0·0
	Eskdalemuir ...	996·3	39	SW	3	b	1002·5	+2	36	−1	SW	3	–	bc	*	10	40	?	0.or	0	o.c	0·0
	Malin Head ...	992·0	44	SW	4	cm	997·3	−1	39	0	SSW	5	SW	bcq	5	2	44	36	cmpq	cm	bcq	0·6
	Markree Castle							*							*		*	*				
	Blacksod Point	995·4	44	WSW	6	bcm	1000·0	0	41	−5	SW	5	W	bcp	5	2	48	38	dcpm	bcm	dhp.cqp	*
	Valencia ...	1003·0	47	WSW	5	b	1006·8	+1	46	−3	SW	4	–	o	4	1	51	43	dcpq	bc	c	1·8
	Roche's Point	1005·4	46	W	4	bc	1009·7	*	44	−4	W	2	NW	o	3	1	49	42	b.bcpq	bcpq	cp.c	*
	Birr Castle ...	1001·9	41	WSW	2	o	1004·0	*	40	−2	SSW	4	–	c	*	6	46	37	bcph	cp.o	cptl.c	3·0
	Donaghadee ...	996·1	42	WSW	3	cm	1001·9	+2	37	−4	SW	4	–	b	3	2	44	36	cmp	cmp	bcml	*
	Liverpool (Bidston)	999·6	40	WSW	5	b	1006·0	+2	42	+3	WSW	4	–	b	3	1	47	37	od	bc.b	b	1·4
	Holyhead ...	1000·2	44	W	5	b	1005·6	+2	45	−1	WSW	4	W	bc	3	4	50	44	orm c	bc.c.ob	b.bc.c	2·0
	Pembroke (St. Ann's)	1003·2	48	NW	5	b	1009·2	+1	48	+3	WSW	5	W	bcq	5	2	49	45	cqp	bmq	bq	2·4
	Scilly (St. Mary's)	1008·5	49	W	6	bq	1013·1	+2	48	0	W	5	W	cmq	6	1	51	46	bmq	bmq	bq.cmp	1·9
	Falmouth ...	1008·7	49	WSW	4	b	1013·0	+2	47	+2	WSW	4	–	b	4	8	52	44	r.bc	bc	bcp	4·6
	Jersey (St. Aubin)	1008·9	49	W	4	bcm	1015·9	*	49	+1	SW	4	SW	be	3	1	52	45	ogcmd	c.bc.m	b.oe	1·3
	Portland Bill ...	1005·8	49	W	5	b	1012·0	+2	49	+4	WSW	5	–	b	4	1	50	44	bc.odm	o.c.bc	b.bc	*
	Dungeness ...	1003·4	46	WSW	3	b	1011·3	+2	44	+10	WSW	4	–	b	4	2	46	37	o.bc	dp.b	bc.b	*
	Dover	1003·6	44	W	4	b	1012·1	+3	43	+7	WSW	4	W	bc	4	1	45	36	bq.c.o	ogd.or	b.bc	0·1
	Wick	992·5	41	SE	6	r	996·7	+2	39	−3	S	5	–	o	5	4	43	38	omw	omr	bc.bm	*
	Nairn	991·9	36	E	1	bc	997·5	*	36	+1	–	0	–	bc	1	1	41	32	od	ow c	cbc	0·0
	Aberdeen ...	994·6	41	SSE	4	r	999·2	+2	37	−4	SW	2	SW	bc	3	10	43	37	c dp	or	or.bc	0·0
	Leith	995·0	43	SW	2	o	1000·3	+3	40	+1	SW	3	W	b	*	0·2	44	38	og.or	o.c.o	c	*
	Tynemouth ...	995·9	40	S	3	of	1002·2	+1	40	−2	S	2	–	cm	4	2	42	39	orm	omr	bcm	*
	Spurn Head ...	998·0	37	SSE	4	r	1005·4	+1	39	+2	SW	4	–	b	4	3	41	36	om	or.cq	dp.bc	0·2
	Yarmouth ...	1000·4	40	SW	1	om	1008·4	+3	38	0	W	2	W	bc	1	2	41	34	bcmf	fomr	bc	0·0
	Clacton-on-Sea	1002·2	42	WSW	3	bcm	1009·8	+2	40	+2	SW	2	–	bc	2	0·3	43	36	ogm	ogmd	bcm.b	0·0
	Nottingham ...	1000·1	42	WSW	1	b	1007·3	*	38	+5	W	2	–	b	*	2	43	31	fm.od	d.dp.bc	b	0·0
	Bath	1004·8	44	W	2	o	1011·2	*	43	+2	W	1	W	b	*	2	51	39	bm.c	c.or	o.bc.b.p	0·0
	London (Kew Obsy.)	1003·7	44	SSW	3	b	1011·3	+2	41	+5	SW	3	W	b	*	1	46	34	cm.odp.of	odmc.bf	b.bc.b	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)																					
	Blaavands Huk	1001·6	34	ENE	3	f	1003·9	+3	34	+2	E	1	–	f	1	Trace	36	30				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1002·4	37	–	0	o	1006·4	+4	45	+6	W	5	–	o	5	1	45	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1003·7	46	WSW	5	r	1011·1	+3	46	+5	W	7	*	b	5	4	46	41				
	La Hève	1009·5	43	SW	4	o	1016·8	*	45	0	SW	5	*	o	5	1	48	41				
	Ushant	1014·3	52	NW	5	o	1016·8	*	52		W	5	*	c	5	4	54	46				
	Brest (St. Mathieu)	1013·3	48	W	4	o	1017·9	−0	50	+2	W	4	*	bc	4	1	54	48				
	Rochefort (Ile d'Aix)	1016·2	50	WNW	6	c	1022·9	−3	50	+2	WSW	5	*	o	*	9	52	45				
	Biarritz	1021·7	55	W	3	o	1026·3	0	54	+3	SW	3	*	r	4	11	55	50				
	Paris	1008·7	45	SSW	3	r	1017·5	+3	43	0	SW	3	–	bc	*	1	46	43				
	Belfort	1012·8	40	WSW	7	o	1017·5	*	41		WSW	7	*	o	*	1	41	39				
	Lyons							*					*		*							
	Nice	1013·5	46	–	0	b	1022·0	+6	42	−1	–	0	*	b	3	–	55	37				
	Perpignan ..	1018·7	48	W	2	r	1024·8	+6	55	+9	H	2	W	o	*	2	57	46				
	Sanguinaire ...	1011·9	52	NW	4	o	?	*	50	0	NW	4	*	bc	5	–	54	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·9	55	SW	4	f	1027·0	+1	57	+2	SW	3	–	o	4	2	57	55				
	Madrid (8 a.m.)	1027·8	46	SW	2	c	1034·4	+3	39	+2	–	0	–	f	*	?	48	37				
	Lisbon (9 a.m.)	1031·0	55	WSW	2	o	1031·4	0	52	+4	N	1	–	bc	b	–	57	48				
	Gibraltar	1029·4	52	SW	5	b	1029·1	*	48	+1	E	4	–	bw	5	–	56	46				
	Rome														*							
	Azores (Horta, 8 a.m.)	1021·2	*	SW	5	o	1017·6	−2	61	0	SSW	5	–	o	5	–	63	61				
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Lerwick

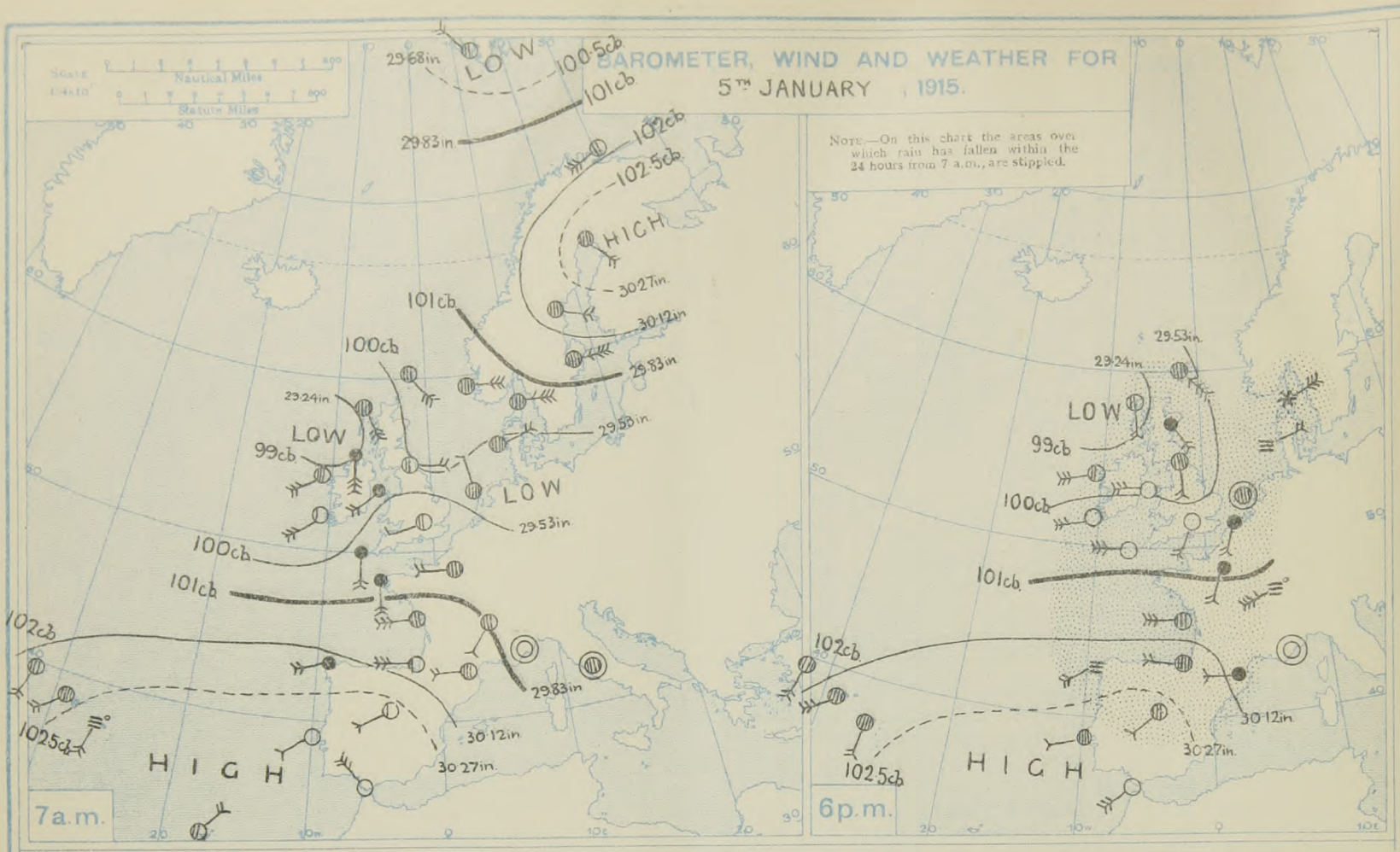
5th 5p.m – 10p.m SE 8

Scilly

6th 5a.m Dust W 18 mps.

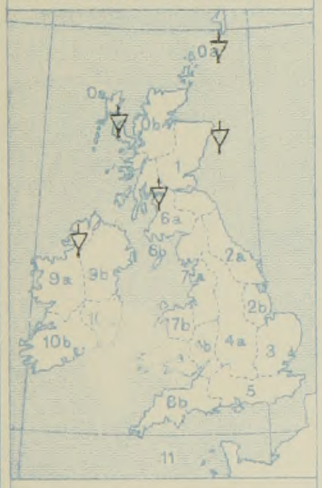
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 5TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



0{a b} 1 2{a b} 3 4{a b} 5 6{a b} 7{a b} 8{a b} 9{a b} 10{a b} 11

Wind between South and West, fresh at times in places; changeable, damp, some showers, fair or fine intervals; moderate temperature.

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterda	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

SOUTH CONE hoisted at 8·15a.m. y'day.

Western Channel and Bay

FURTHER OUTLOOK.

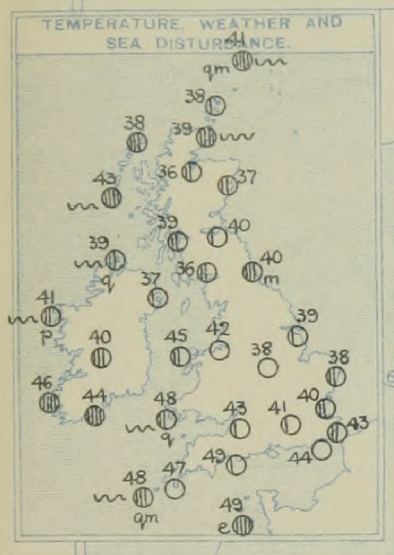
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

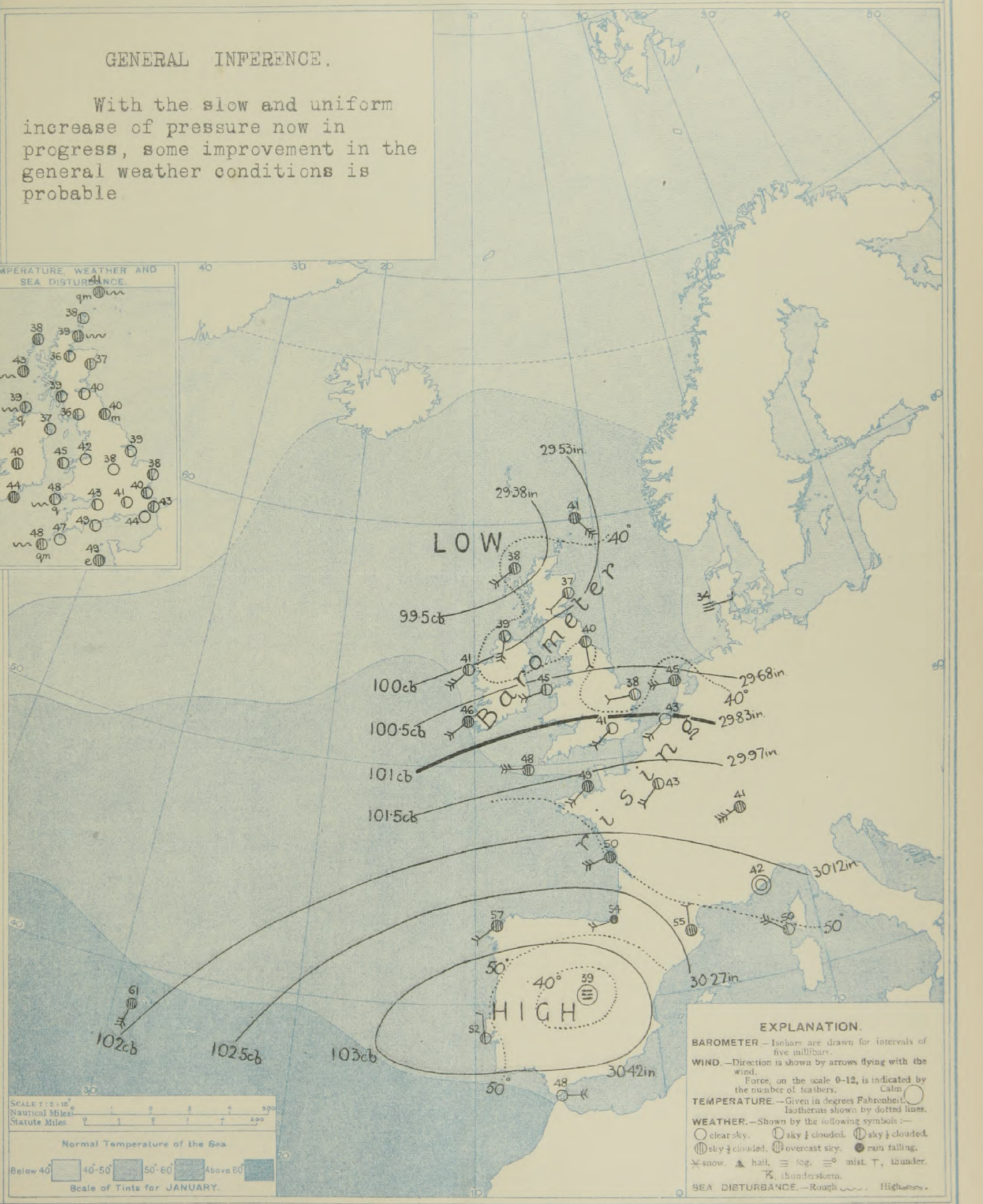
SYNOPTIC CHART FOR 7 a.m. WEDNESDAY, 6TH JANUARY, 1915.

GENERAL INFERENCE.

With the slow and uniform increase of pressure now in progress, some improvement in the general weather conditions is probable

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





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. T, thunder.
⚡, thunderstorm.

SEA DISTURBANCE.—Rough ∽∽. High ≈≈.

DAILY WEATHER REPORT.

Wednesday, 6th January 1915.

REPORTS FOR YESTERDAY.

5th January 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitzbergen	999·0	21	-	0	s	1001·0	*	21	0	NW	4	*	bc	*	*	21	21
Vardö	1004·3	21	WSW	7	bc	1017·9	0	21	-2	WSW	6	–	bc	4	*	27	21
Skudesnaes	1004·8	36	E	6	c	1005·7	0	36	-3	E	6	–	o	2	–	39	32
Faerder	1009·1	28	NE	6	s	1023·1	0	30	-4	NE	6	–	o	2	–	34	28
Haparanda	1025·9	21	S	2	o	1027·7	0	19	-4	SE	4	–	o	*	–	23	18
Hernosand	1021·3	27	SE	4	o	1024·9	0	27	-1	ESE	4	–	o	*	–	28	25
Stockholm	1015·3	30	SE	6	o	1014·3	0	30	0	E	8	–	o	*	–	30	28
Wisby	1011·0	27	SE	6	o	1009·1	0	27	-1	ESE	4	–	o	*	–	36	25
Karlstad	1012·0	27	E	4	o	1012·2	0	27	-1	E	4	–	S	*	1	28	25
Madrid	1017·5	41	NW	4	b	1027·5	+2	37	0	WSW	2	–	b	*	–	43	36
Lisbon	1027·4	50	WNW	2	b	1027·9	0	48	0	SW	2	–	b	*	–	54	48
Rome	1001·6	46	SW	1	bc	1004·6	+1	46	-8	S	1	–	o	*	–	59	43
Horta	.	.	.	.	.	1024·0	0	61	.	SW	5	–	o	4	?	63	59
Funchal.	1027·0	63	NE	3	o	1028·7	0	59	-1	NE	3	NE	bc	3	–	63	54

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	3	41	28	bc.c.or	or	0·0
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	6	40	34	omr	or c bc	0·0
Eng., N.E.	Scarborough	*	43	38	o	o.c	0·0
Eng., N.E.	Skegness	1	41	32	mc	mr. b	0·0
Eng., N.W.	Morecambe	4	44	35	od	bc	0·0
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	3	45	33	op.r	or.bc.b	0·1
Midlands.	Buxton						
Midlands.	Leamington Spa	0·3	45	32	cd	c.bc	0·1
Midlands.	Malvern	0·3	47	37	bc	bc.b	1·0
Midlands.	Ross-on-Wye	1	48	40	bc	bc	1·2
Wales.	Rhyl	1	48	34	c	bc.or	2·4
Wales.	Colwyn Bay	–	49	37	c.bc	bcp	3·0
Wales.	Llandudno	–	49	42	c	c	1·0
Wales.	Aberystwyth	6	49	44	r.o.c	c.bc	2·5
Wales.	Tenby	5	50	40	bc.or	bc.or	2·5
Wales.	Swansea	6	50	41	r.bcp	b	2·4
England, E.	Cromer	2	44	36	bc	cl.o.c.b	1·6
England, E.	Lowestoft	2	40	35	of	ofr	0·0
England, E.	Felixstowe	1	42	35	om	omr	0·0
England, E.	Walton-on-Naze	1	43	35	o	cm	0·0
England, E.	Southend-on-Sea	1	43	34	mc.or	ul.r.o	0·0
England, S.E.	Tunbridge Wells	1	45	34	m·o	od.o.c.b	0·0
England, S.E.	Margate	2	45	36	o	od	0·0
England, S.E.	Ramsgate	2	42	36	o	r	0·1
England, S.E.	Folkestone	1	45	36	cm.o	r.oev	0·0
England, S.E.	Hastings	1	47	36	o'c	od.bc	0·2
England, S.E.	Bexhill-on-Sea	2	47	39	r.o	o	0·1
England, S.E.	Eastbourne	1	49	37	o	or.b	0·1
England, S.E.	Seaford	1	47	36	b	r	0·1
England, S.E.	Brighton	4	47	37	om.o.c	bc cp.b	0·0
England, S.E.	Worthing	2	46	33	m	bc	0·1
England, S.E.	Littlehampton	1	47	?	omq	bc.	0·1
England, S.E.	Bognor	1	47	37	s.bc	cd.bc.b	0·1
England, S.E.	Southsea	0·3	48	41	o	o	0·0
England, S.E.	Bournemouth	1	49	40	od	cd	1·2
England, S.W.	Weymouth						
England, S.W.	Exmouth						
England, S.W.	Torquay	1	52	43	c.o	d.c.bc.b	3·7
England, S.W.	Paignton	1	52	42	op.bc	bc	3·1
England, S.W.	Falmouth	7	52	44	r.bc	bc	4·6
England, S.W.	Penzance	6	53	46	bc	bc	5·5
England, S.W.	Newquay	5	51	45	om.bc	b	3·9
England, S.W.	Ilfracombe	1	51	45	od.bc	bc.c	1·3
England, S.W.	Weston-super-Mare ...	1	49	41	d.bc	b.bc.r	1·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	98	89	0·0	46	36	32	1	om	or.o	o.bc.b
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	-	86	0·0	47	36	30	1	or	bc	bc
Camden Sq. (Brit. Rainfall)	97	90	0·0	46	37	33	1	sf.o	or.o	*
Hampstead (Reservoir) ...	*	91	0·0	41	34	26	1	or	bc	b
Richmond Park ...	*	*	0·0							
Kew. (See front page.) (Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	95	88	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
145 Joules	5·1 Milliwatts.	14 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	0·3	47	41	37	c.op	cp.b	p.c.b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9pm	–	53	41	34	bc.c	c.or	c.bc	3·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	47	37	28	o.c	om.odm	o.o.c.o.bc	*

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

5th-6th January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·5 / 8·4	11·59	3·52 / 3·54
Greenwich	8·6 / 8·6	12·0	4·5 / 4·6
Wick	9·1 / 9·0	12·18	3·34 / 3·36
Valencia	9·50 / 9·49	12·43	4·43 / 4·44

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 50° and 53° in the south-west. Rain was general, up to 10 millimetres locally in Scotland. Bright sunshine was very variable, none in several localities to 5½ hours at Penzance.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 7. 7th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	998·5	39	SW	1	bcm	994·9	-2	43	+2	SSE	3	S	bc	3	4	44	39	omp	bc	bc	*
	Deerness ...	997·9	38	SSW	2	b	991·9	*	40	+2	S	3	-	c	3	-	42	38	b	b	b.bc.c	2·9
	Stornoway ...	995·0	39	SW	3	cp	989·8	-2	35	-3	SW	3	-	b	3	4	41	34	cp	cp	cp.b	0·8
	Castlebay (Barra Isd.)	995·5	45	WSW	5	bc	989·9	-2	39	-4	NNE	1	-	c	2	5	45	37	o.chsp	chs.bc	bc.op.c	1·6
	Glasgow ...	1001·0	40	SW	3	cg	994·1	-4	38	-1	SSW	2	-	or	*	2	41	36	bc.b	bc.p.b.o	bg.op	1·7
	Eskdalemuir ...	1002·9	38	WSW	4	bc	995·1	-5	39	+3	SSW	4	-	or	*	1	39	35	o	o	bc.c.or	0·2
	Malin Head ...	998·4	40	SW	5	bcq/p	992·0	-4	40	+1	S	5	-	om	5	-	44	38	bcq	bcq/p	om	1·7
	Markree Castle							*							*		*	*				
	Blacksod Point	999·2	43	WSW	4	cmp	993·0	-3	42	+1	SW	3	SW	cp	5	2	45	38	cmp	clpm	cmp.or	*
	Valencia ...	1003·7	46	WSW	3	0	995·9	-5	46	0	SW	3	-	o	4	9	49	45	cmp	cmp	cmp	0·0
	Roche's Point	1006·1	46	-	0	0	999·0	*	45	+1	WSW	1	-	o	3	4	48	43	or	or	od.o	*
	Birr Castle ...	1003·0	42	-	0	0	995·9	*	43	+3	SW	2	-	o	*	5	45	34	od.o	op.o	op.o	0·0
	Donaghadee ...	1001·8	38	SW	3	cm	995·3	-3	39	+2	SW	2	-	ogmr	1	1	41	36	cmq	cmp	bclmr	*
	Liverpool (Bidston)	1005·5	44	SW	3	r	997·8	-5	42	0	S	2	S.	o	2	2	46	41	o.bc	or	op	0·4
	Holyhead ...	1004·5	48	SW	6	om	996·9	-5	49	+2	SW	3	-	omd	2	1	48	44	bc.c.o	o.or.om	or.md	0·0
	Pembroke (St. Ann's)	1006·8	47	SSW	4	r	999·3	-5	45	-3	SW	1	-	op	3	9	48	45	bcq	ogq	omr	0·0
	Scilly (St. Mary's)	1006·6	51	SW	6	omr	997·7	-6	51	+3	WSW	7	-	omr	7	24	52	47	om	omr	omr	0·0
	Falmouth ...	1008·1	48	SSE	2	r	999·8	-4	61	+4	SW	9	-	r	7	33	62	45	o	or	rq	0·0
	Jersey (St. Aubin)	1014·8	60	SW	1	mr	1005·7	*	52	+3	SW	4	-	og	3	7	53	48	c.oe	o.c.omr	omd.og	0·4
	Portland Bill ...	1011·7	49	SW	3	or	998·9	-7	48	-1	SW	7	-	or	5	13	50	46	c.o	or	or	*
	Dungeness ...	1013·5	47	WSW	3	o	1001·1	-3	48	+4	SW	4	-	r	4	10	50	43	bc.o	of.o	or	*
	Dover	1013·2	45	WNW	3	c	1001·3	-1	48	+5	SW	4	-	or	4	9	50	42	bc.c	c	c.or	1·2
	Wick	998·3	37	SW	4	bc	992·2	-3	40	+1	SSW	3	-	o	3	-	41	36	om.bcm	bcm	bm.om	*
	Nairn	998·6	35	W	1	bc	992·2	*	33	-3	-	0	-	om	1	-	40	30	bc	bc	bcmsc	3·8
	Aberdeen ...	1000·6	39	S	3	b	994·1	-4	37	0	SSW	1	SW	bc	2	-	41	34	bc cg	bcg.b	b.bc	1·1
	Leith	1002·4	40	WSW	1	c	994·2	-3	36	-4	SW	1	-	om	*	-	43	35	b.bc	bc	bc	*
	Tynemouth ...	1003·5	40	SSW	2	b	996·7	-2	42	+2	SSW	3	-	om	3	-	45	37	cm	cm	om	*
	Spurn Head ...	1008·0	40	WSW	4	bc	1000·0	-2	40	+1	SSW	1	-	om	4	0·3	43	36	bc	bcm	omp	4·3
	Yarmouth ...	1010·7	43	SW	1	0	999·8	-4	42	+4	-	0	-	omr	0	0·4	44	36	bcm	bcm.o	omr	3·0
	Clacton-on-Sea	1011·9	43	WSW	2	ogm	999·9	-5	43	+3	WSW	1	-	ogmr	1	4	45	39	bc.om	ogm	ogmr	1·0
	Nottingham ...	1006·6	44	SW	3	o	999·1	*	42	+4	SW	1	-	d	*	0·2	45	35	bcm	cp.o	oe	1·2
	Bath	1010·8	48	SW	2	r	999·6	*	44	+1	NE	1	-	r	*	7	49	41	b.bc.c.o	c.or	r.md	0·6
	London (Kew Obsy.)	1011·9	45	SW	2	om	1000·4	-3	44	+3	-	0	-	orf	*	7	47	41	bc bcg.om	om	om.or.orf	1·1
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö																*					
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1009·9	30	ENE	3	3	1007·5	-3	28	-2	E	3	E	c	3	2	32	28				
	Blaavands Huk	1008·4	34	ESE	1	5	1001·2	-6	36	+2	SE	2	-	r	2	Trace	36	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1011·3	45	SW	3	0	1001·3	-7	41	-4	SW	1	-	o	1	-	45	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1013·2	48	WSW	5	0	1000·8	-3	49	+3	SW	7	*	r	6	8	50	43				
	La Hève	1014·9	45	S	3	r	1006·7	*	46	+1	SW	5	*	o	5	6	46	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1015·0	50	WSW	4	0	1008·0	-5	54	+4	SSW	7	*	o	7	12	54	46				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1027·3	55	SW	2	0	1020·8	-3	52	-2	S	2	*	c	6	1	57	50				
	Paris														*							
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*		*							
	Perpignan ..														*							
	Sanguinaire ...	1017·5	54	E	2	bc	1018·9	*	53	+3	E	2	*	o	5	-	57	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1028·2	59	SW	3	0	1021·9	-3	54	-3	SSW	5	-	o	5	?	61	54				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*														
	Rome														*							
	Azores (Horta, 8 a.m.)	1015·8	*	SW	5	0																
	Madeira (Funchal)																					

GALES.

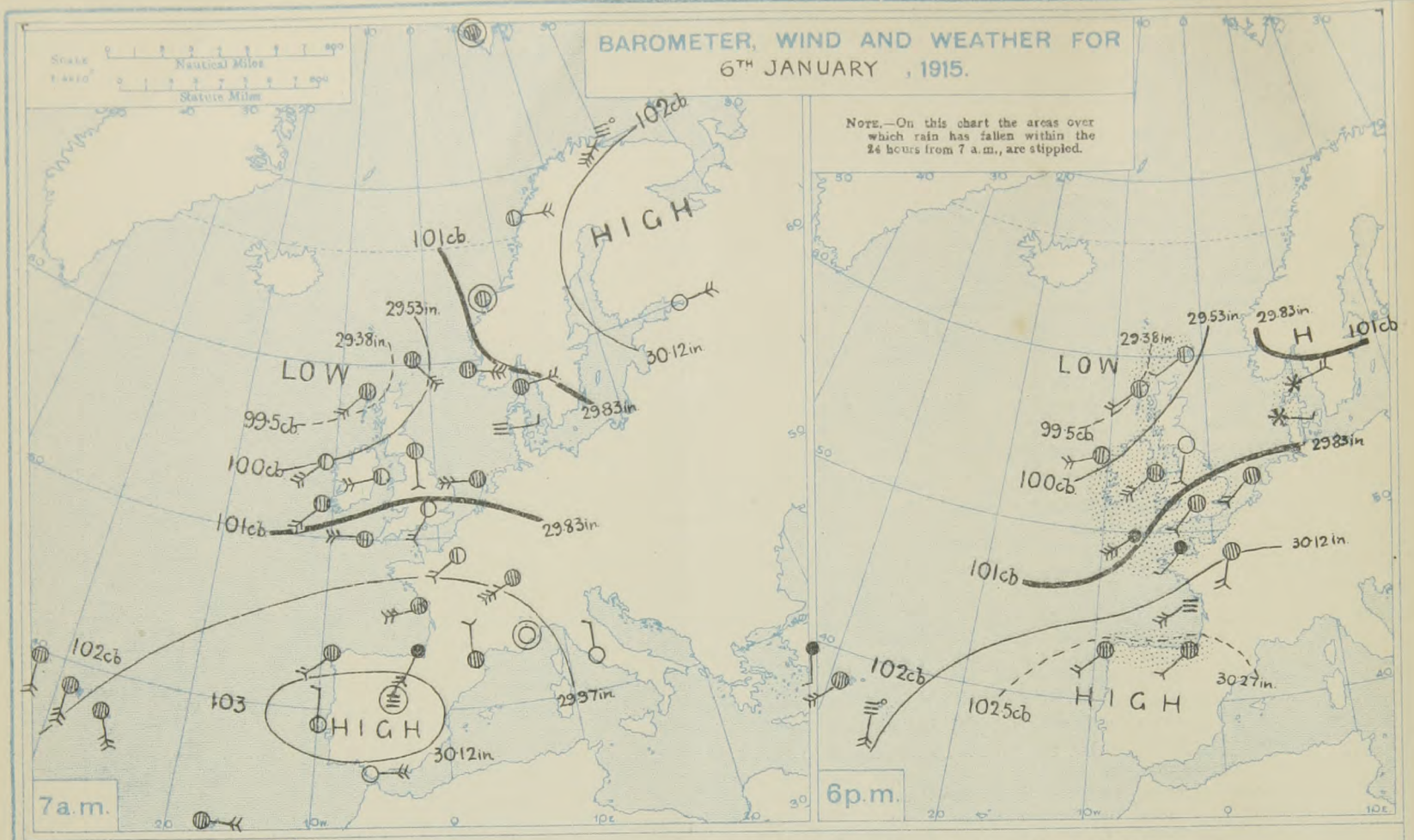
Duration and Extreme Force in British Islands.

Falmouth

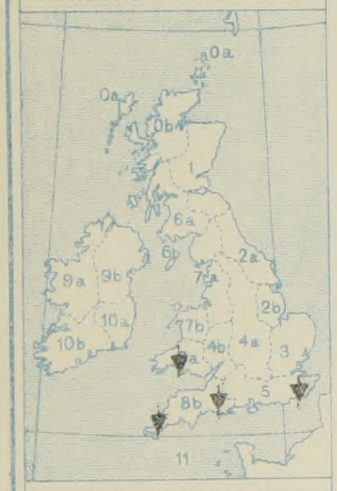
SW^ly Gale night 6th.
7th 7 a.m. SW 9.

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

BAROMETER, WIND AND WEATHER FOR 6TH JANUARY , 1915.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted at 8.20 a.m.

Western Channel and Bay 11

0 a, b — Light to moderate Southerly and South-Westerly breezes; dull, misty, rainy, some fair intervals; moderate temperature.

1

2 a, b

3

4 a, b — Increasing South-Westerly winds, squally, strong to gale at times; dull, misty, rainy, some fair intervals; moderate temperature.

5

6 a, b — Same as Nos. 0 to 4.

7 a, b

8 a, b — Increasing South-Westerly winds, squally, strong to gale at times; dull, misty, rainy, some fair intervals; moderate temperature.

9 — Same as Nos. 0 to 4.

10

FURTHER OUTLOOK.

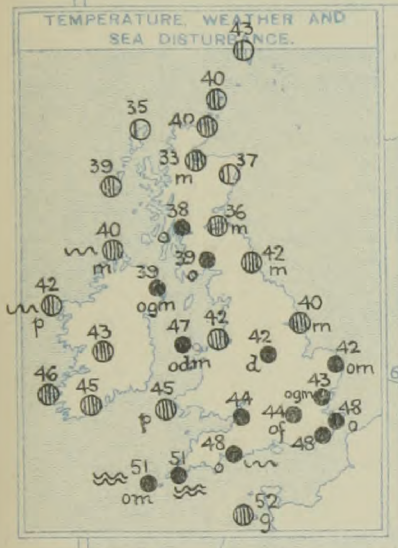
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m. THURSDAY, 7TH JANUARY, 1915.

GENERAL INFERENCE.

The pressure distribution still favours the continuance of the unsettled type of weather.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



LOW

HIGH

29·24in

29·38in

29·53in

29·68in

29·83in.

29·97in.

30·12in.

40°

32°

50°

99cb.

99·5cb.

100cb.

100·5cb.

101cb.

101·5cb.

102cb

Barometer falling

Inches.

31

30

29

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 JANUARY.

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 ≈≈≈.

DAILY WEATHER REPORT.

Thursday, 7th January, 1915.

REPORTS FOR YESTERDAY.

6th January 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitsbergen	1008·2	10	–	0	b	1010·9	*	−2	−23	–	0	*	0	*	*	23	−2
Vardö	1021·1	23	SW	5	b	1018·9	−2	21		SW	8	–	m	4	*	23	18
Bodö	1015·0	25	E	6	b	1018·1	−2	28	0	E	4	–	bc	2	–	28	23
Christiansund	1007·3	32	E	4	b	1007·7	+2	34		–	0	–	c	3	–	34	32
Skudesnäs	1005·5	36	–	0	0	1007·0	0	?36	0	ESE	6	–	0	2	–	36	30
Faerder	1009·0	28	NE	6	5	1009·6	+2	27	−3	E	5	–	0	2	–	30	27
The Skaw	1005·9	32	ENE	6	5	1008·3	+2	30	0	E	4	–	0	4	Trace	32	28
Petrograd	1022·6	10	E	3	b	1025·5	+1	1		E	4	–	b	*	–	12	1
Rome	1014·6	48	SE	1	b	1015·4	0	37	−9	N	1	–	b	*	–	54	37
Funchal	1027·3	61	NE	4	c	1026·9	0	61	+2	E	4	–	0	8	–	64	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	21	45	30	hq.or.c	tlhp.o	0·0
Scotland.	Banff	1	39	35	bc.c	c.bc	0·0
Scotland.	St. Andrews	–	41	36	*	*	1·3
Eng. N.E.	Harrogate	4	43	37	bc.cp	cp.or	1·6
Eng. N.E.	Scarborough	*	44	36	o.c	o.c	0·0
Eng. N.E.	Skegness	–	43	33	b.bc	bc.o	3·4
Eng. N.W.	Morecambe	5	44	42	bc	mr	0·0
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	2	46	42	c.o	or	0·5
Midlands.	Buxton						
Midlands.	Leamington Spa	–	45	35	bc	bc	1·5
Midlands.	Malvern	–	48	40	bc.c	c	0·4
Midlands.	Ross-on-Wye						
Wales.	Rhyl	1	47	42	c	c.or.o	0·2
Wales.	Colwyn Bay	1	48	44	bc	bcp	0·1
Wales.	Llandudno	2	47	44	o	or	6·0
Wales.	Aberystwyth	5	47	44	o.c.o	r.or	0·0
Wales.	Tenby	3	48	43	bc.c.o	bc.op	0·0
Wales.	Swansea	3	48	43	bc	cpr	0·0
England. E.	Cromer	–	45	38	b.bc	bc.o.c	4·0
England. E.	Lowestoft						
England. E.	Felixstowe	–	45	37	bcm	cm	1·7
England. E.	Walton-on-Naze	–	45	36	b.bc	ogm	1·5
England. E.	Southend-on-Sea	0·3	45	38	m.c.bc.b	o	1·3
England. S.E.	Tunbridge Wells	0·3	48	39	m.bc.o	o	1·3
England. S.E.	Margate	–	48	38	c	o	0·9
England. S.E.	Ramsgate	1	46	37	bc	bc	1·8
England. S.E.	Folkestone	–	46	40	cm.bc	c.o	0·9
England. S.E.	Hastings	–	48	39	bc.c	o	1·9
England. S.E.	Bexhill-on-Sea	3	46	39	c	c	0·7
England. S.E.	Eastbourne	0·3	49	43	bc	bc.g.or	1·5
England. S.E.	Seaford	–	48	41	bc	o	1·5
England. S.E.	Brighton	–	47	38	b.bc.c	bc.c.	0·9
England. S.E.	Worthing	–	50	40	bc.o	o	1·4
England. S.E.	Littlehampton	1	47	?	b.bc.c	rq	1·5
England. S.E.	Bognor	0·3	48	41	bc.	c.o	1·1
England. S.E.	Southsea						
England. S.E.	Bournemouth	–	49	42	bc.o	o	0·7
England. S.W.	Weymouth	1	50	46	bc.c	c.or	0·0
England. S.W.	Exmouth						
England. S.W.	Torquay	1	50	46	c.o	c.or	0·1
England. S.W.	Paignton						
England. S.W.	Falmouth	15	50	44	o	or	0·0
England. S.W.	Penzance	15	52	46	o	or	0·0
England. S.W.	Newquay	7	50	46	o	or	0·0
England. S.W.	Ilfracombe	5	50	45	o	c.or	0·0
England. S.W.	Weston-super-Mare	1	48	42	bc.c	or	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	86	100	1·0	47	43	38	9	bm	b.c.o.or	or
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	99	0·3	48	43	35	8	o	o	orf
Camden Sq. (Brit. Rainfall)	84	100	0·0	47	42	41	7	bm.c	o	*
Hampstead (Reservoir)	*	97	1·0	46	36	31	7	bor	b.or	orf
Richmond Park	*	*								
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.) 81 / 94 / 0·4	215 Joules	7·5 Milliwatts.	14 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	6	43	38	33	bc	c.b	cm.or	0·2
Manchester ,,	6	45	35	*	b.cp.bc	bc.c.o	or	0·2
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	5	50	45	39	b	bc.o	or	0·2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·2	48	41	32	b.bc	bc.c.o	cm	*

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

7th & 8th January, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4 / 8.4	11.59 / 12.0	3.54 / 3.56
Greenwich	8.6 / 8.6	12.6 / 12.7	4.6 / 4.8
Wick	9.0 / 9.0	12.18 / 12.19	3.36 / 3.38
Valencia	8.49 / 8.49	12.47 / 12.48	4.44 / 4.46

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° at several southern stations, and in the night many minima were above 40°. Rain was heavy in the south, 33 mm. at Falmouth. Generally there was little or no sunshine, but Spurn Head had 4·3 hours.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 8.

Friday, 8th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	987·8	41	ESE	4	cm	984·6	0	40	-3	SSE	3	–	c	3	10	42	35	bc	clp	o.cr.	*
	Deerness ...	986·1	36	S	2	b	983·7	*	36	-4	SE	?	E	bcac	2	–	41	34	c	c.bc.b	b.bc	0·9
	Stornoway ...	984·4	36	WSW	1	bc	980·3	-2	39	+4	SSE	5	–	orq	4	5	41	35	bclp	bc	clp.orq	0·9
	Castlebay (Barra fsd.)	983·6	43	SSW	3	b	978·8	-1	42	+3	WSW	3	SW	bcp	3	4	45	39	c.clp.bc	bc clp b	bc.clp	1·3
	Glasgow ...	987·1	38	SSW	1	cq	984·2	-2	41	+3	WSW	4	W	c	*	6	41	35	clq.p.o	clp.clq c	clpq clp	0·0
	Eskdalemuir ...	987·8	36	W	3	o	987·1	0	39	0	SW	5	–	o	*	5	39	33	or	or	c.o	0·0
	Malin Head ...	985·4	38	S	5	cm	980·9	-2	41	+1	SW	6	–	om	6	4	42	37	clq	cmlp	omr	0·3
	Markree Castle							*							*		*	*				
	Blacksod Point	985·6	44	WSW	5	cmlp	984·4	-3	44	+2	SW	6	SW	cmlp	5	5	45	37	bclp	bclp	cqlp.clp	*
	Valencia ...	993·9	47	SW	6	bc	994·6	-2	46	0	SW	6	–	clp	5	7	47	41	bclpr	bcrlp	cr	1·9
	Roche's Point	994·7	44	WNW	4	b	997·6	*	42	-3	W	5	W	b	5	3	46	41	r	c b.clp	clp.bcp	*
	Birr Castle ...	990·4	39	ENE	1	r	990·6	*	40	-3	SW	4	–	r	*	6	43	39	or	or	clp or	0·0
	Donaghadee ...	988·3	37	W	3	bm	986·5	-2	38	-1	SW	4	SW	bcq	3	1	40	35	clq.dm	bm	bcmp.	*
	Liverpool (Bidston)	990·4	38	WSW	4	r	992·7	+1	40	-2	WSW	2	–	b	2	15	44	38	or	or	b	0·0
	Holyhead ...	991·1	42	W	5	c	992·4	-1	43	-4	SW	5	SW	cm	4	12	46	41	crm	or.om	c.bc.c.o	0·0
	Pembroke (St. Ann's)	994·0	45	W	5	c	996·3	-1	45	0	WSW	6	W	cq	6	6	48	44	clp	clm.r	cqlp	0·0
	Scilly (St. Mary's)	998·6	44	W	8	cqlp	1002·7	-1	45	-6	W	8	W	cqlp	7	6	52	42	omr	crnq.r	cqpl.c	0·0
	Falmouth ...	998·8	43	W	4	bc	1002·5	-2	43	-8	WSW	5	–	bc	6	14	51	42	rq	or	bcqp	0·0
	Jersey (St. Aubin)	999·3	50	SW	6	cmd.	1005·9	*	47	-5	SW	6	SW	c	5	12	52	44	or.cmd	cmd	b.clp.c	0·0
	Portland Bill ...	993·9	48	WSW	7	or													or	or		*
	Dungeness ...	993·1	48	SW	7	r	1000·6	+3	45	-3	SW	5	SW	bc	5	11	50	42	or	or	or.bc.b	*
	Dover	994·0	47	SW	6	r	1001·0	+3	42	-6	SW	4	SW	bc	3	12	50	40	or	or	r.c.bc.b	0·0
	Wick	985·9	34	W	1	bc	988·7	-1	38	-2	WSW	1	–	o	4	–	40	25	om.cm	cm.bcm	bmo.o	*
	Nairn	986·0	29	–	0	bc	982·6	*	30	-3	–	0	–	om	0	0·1	39	24	c.bc	bc	bcac	2·3
	Aberdeen ...	986·5	33	SSW	1	b	984·7	-1	29	-8	W	1	SW	b	2	–	39	28	bc.bq	bc.bq	bcq	0·2
	Leith	987·8	31	WSW	1	o	984·8	0	41	+5	WSW	3	–	o	*	0·2	42	36	o	o	od.o	*
	Tynemouth ...	987·4	39	WNW	2	om	988·4	0	39	-2	SW	1	–	r	2	4	42	36	omr	omr	bcp	*
	Spurn Head ...	989·0	41	WSW	2	r	992·4	0	39	-1	W	5	–	bc	4	8	42	36	om	fr	omr	0·0
	Yarmouth ...	988·8	44	SW	2	omr	995·6	+3	41	-1	W	3	–	b	2	4	45	38	omr	orh	o.b.	0·0
	Clacton-on-Sea	990·9	48	WSW	2	ogr	997·9	+4	42	-1	WSW	4	–	b	3	19	48	39	ogmd	ogmd.r	ogr.b.	0·0
	Nottingham ...	988·6	44	SW	2	r	994·2	*	40	-2	SW	3	SW	b	*	5	44	37	d.om	omr	or.c.b.	0·0
	Bath	991·1	43	SW	4	r	999·3	*	40	-4	W	3	NW	o	*	10	48	39	odr	or	or	0·0
	London (Kew Obsy.)	991·3	49	SW	5	c	999·2	+2	43	-1	WSW	6	W	o	*	9	51	41	orf.df	df.o.c	c.or.oq.bc.b.o	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'iania Fjord)	1002·3	25	ESE	4	o	994·0	-3	19	-6	NE	6	–	o	2	?	25	19				
	The Scaw (Skagen)																					
	Blaavands Huk	993·0	37	ESE	2	r	980·7	+2	32	-4	NNE	3	–	s	3	18	37	30				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	990·0	41	SW	2	f	994·0	+5	43	+2	WSW	7	–	o	6	4	45	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	993·0	48	SW	7	r	1000·3	+4	46	-3	WSW	7	*	b	8	15	50	46				
	La Hève	997·6	46	SSW	6	r	1004·6	*	45	-1	WSW	6	*	c	5	3	52	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1002·4	52	W	5	r	1010·4	+2	48	-6	W	5	*	c	5	7	54	45				
	Rochefort (Ile d'Aix)	1010·9	54	SW	7	o	1017·1	0	48	-5	WSW	5	*	c	*	2	55	46				
	Biarritz	1016·4	55	SW	2	c	1020·3	0	52	0	WSW	3	*	o	5	–	61	50				
	Paris	1002·9	52	SSW	5	o	1009·5	+2	43	-9	SW	4	–	b	*	6	54	43				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1016·4	44	–	0	b	1008·4	-1	50	+9	SW	1	*	bc	2	–	54	39				
	Perpignan ..	1015·9	50	–	0	b	1018·7	+3	54	+9	NW	5	W	b	*	–	64	45				
	Sanguinaire ...	1018·0	57	E	2	m	1010·9	*	52	-1	E	2	*	o	4	–	57	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018·0	59	SSW	5	o	1023·0	0	46	-8	SW	3	W	c	5	5	59	46				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1028·4	49	NW	6	b	1028·4	*	53		NW	6	–	bcw	2	–	64	45				
	Rome														*							
	Azores (Horta, 8 a.m.)		*																			
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Scilly

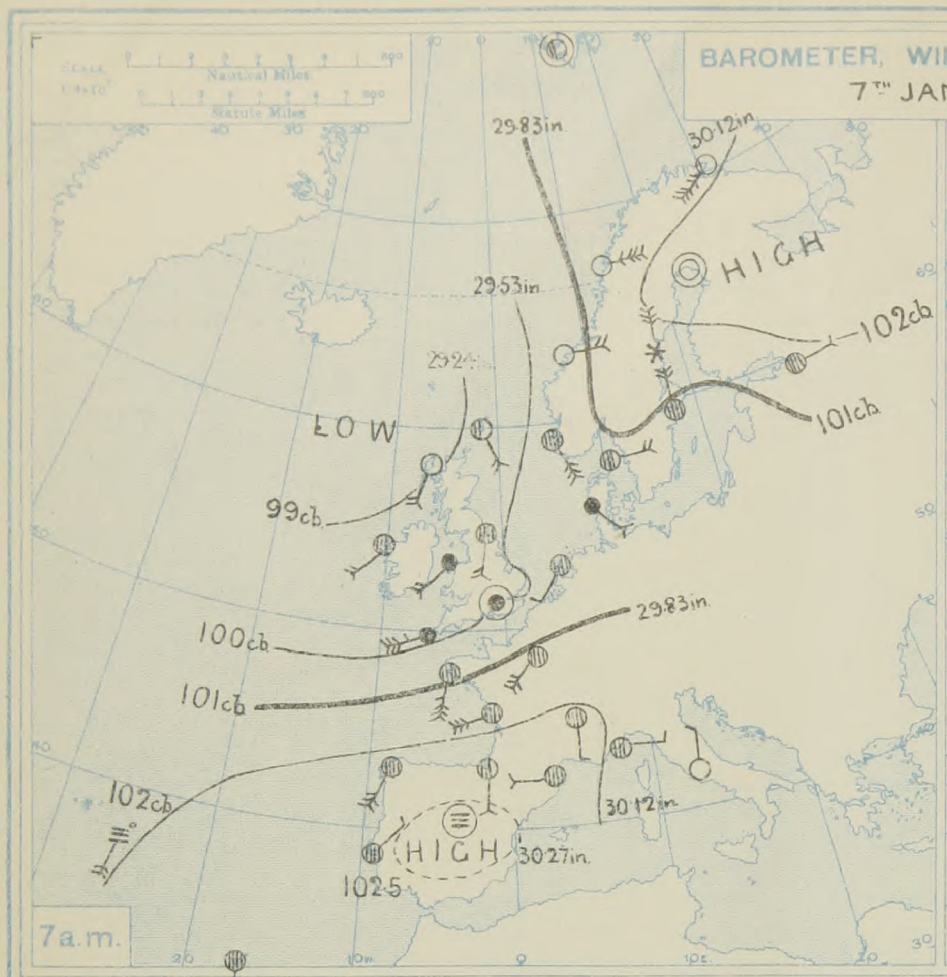
7th 5 p.m – 8th 7 a.m W 8
8th 2 a.m Squall W 9 Gust W 28 mps
8th 6 a.m Squall W 9 as
Gust W 30 mps

Jersey.

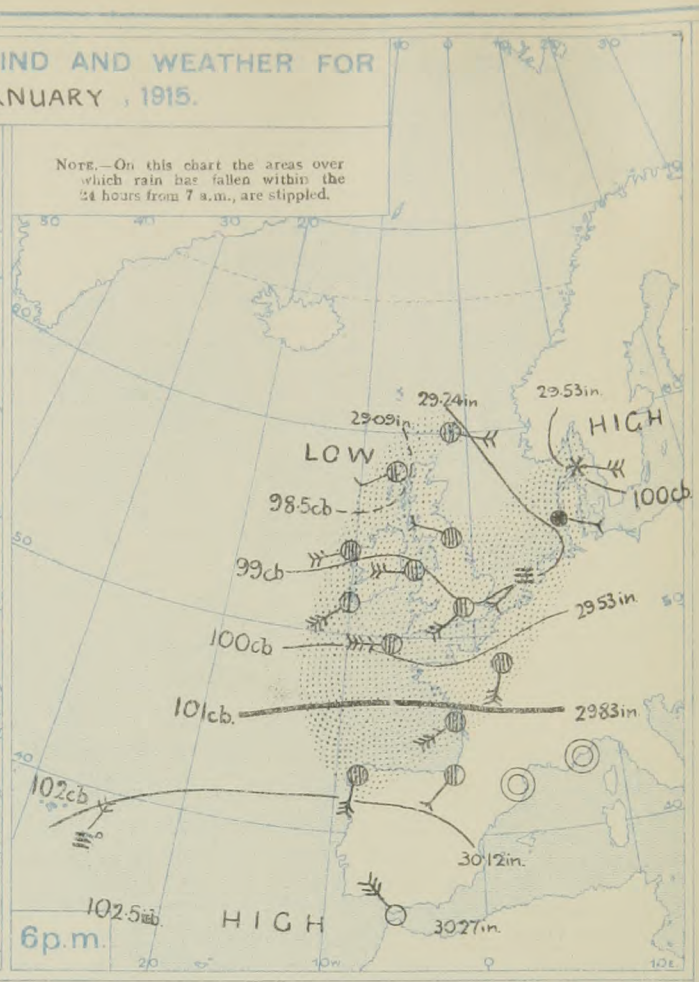
7th 7 p.m – 8th 6 a.m SW 8
Ex. SW 9 in night.

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

BAROMETER, WIND AND WEATHER FOR 7TH JANUARY, 1915.

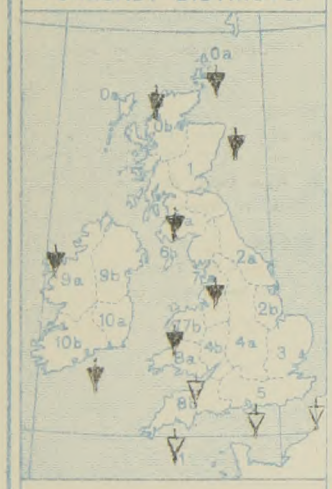


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones hoisted to-day at 8.20 a.m

Western Channel and Bay

0 {a b} 1 2 {a b} 3 4 {a b} 5 6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} 11

Wind mainly South-Westerly to Westerly,

generally fresh to strong, a gale in places; unsettled,

some rain, fair or fine intervals; mild.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

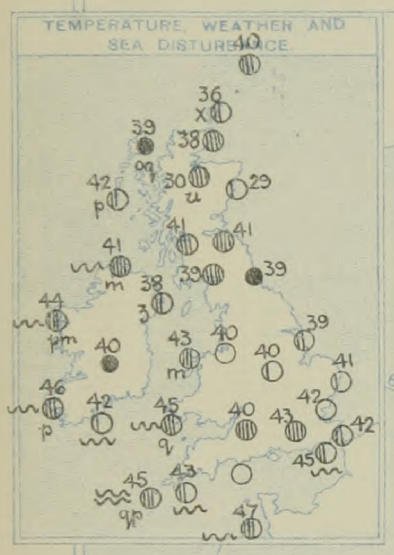
W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m. FRIDAY, 8TH JANUARY, 1915.

GENERAL INFERENCE.

The depression off our north-western coasts will maintain the unsettled type of weather for the present.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Inches

31

30

29

LOW

98cb

98·5cb

99cb

99·5cb

100cb

100·5cb

101cb

101·5cb

102cb

102·5cb

HIGH

3027in

29·09in

28·94in

29·24in

HIGH

99cb

985cb

LOW

29·09in

Barometer falling.

Barometer rising.

29·24in

29·38in

29·53in

29·68in

29·83in

29·97in

30·12in

SCALE 1 : 2 × 10⁷

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 JANUARY.

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 ~~~

DAILY WEATHER REPORT. Friday, 8th January, 1915.

REPORTS FOR YESTERDAY.

7th January 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitsbergen	1012·3	-2	-	0	0	1012·0	*	-2	0	-	0	*	bc	*	*	3	-2
Vardö	1020·0	14	SW	5	c	1018·7	+1	16	-5	SW	5	-	bc	5	-	21	14
Bodö	1015·0	25	E	4	0	1014·0	0	19	-9	NE	3	-	b	0	-	28	18
Christiansund	1008·3	36	-	0	0	1002·6	-2	32	-2	NE	3	-	b	4	-	36	32
Skudesnaes	1008·4	34	SE	5	0	1001·2	-4	34	-2	SSE	6	-	b	4	-	36	28
Faerder	1012·6	28	E	3	4	1009·5	-2	28	-5	E	2	-	b	-	-	30	23
Haparanda	1020·4	23	S	2	5	1025·9	-3	-11			0	-	b	-	-	28	-11
Hernösand	1020·4	21	NE	2	8	1016·7	-3	18		N	0	-	b	5	-	21	16
Stockholm	1011·9	27	E	6	0	1008·2	-2	15		N	4	-	b	3	3	27	19
Visby	1007·4	25	NE	4	4	1006·6	0	16		ENE	2	-	b	0	2	26	19
Karlstad	1012·7	25	ESE	2	0	1010·1	-1	22		-	0	-	b	0	2	27	10
Petrograd	1023·9	-6	ESE	3	6	1014·9	+2	-6	-7	E	2	-	b	0	-	2	-8
Ushant	1018·0	52	SW	6	7	1003·3	*	60	-2	SSW	6	-	*	0	-	54	48
Rochefort	1022·9	51	SW	5	7	1018·6	0	53	+3	WSW	5	-	*	0	-	53	60
Paris	1019·0	48	SSW	3	7	1010·3	-2	52	+9	SW	5	-	*	0	3	50	43
Madrid	1032·8	41	NE	1	b	1023·3	-1	37	-2	-	0	-	b	-	1	41	37
Funchal	1018·9	68	N	1	b	1016·1	0	69	+2	N	1	-	b	*	-	54	39

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	-	38	31	bc.c	c.bc	1·3
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	6	42	37	o	or	0·0
Eng., N.E.	Scarborough	*	43	39	o	o	0·0
Eng., N.E.	Skegness	4	42	40	oq	oq	0·0
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	16	43	39	o	or	0·0
Eng., N.W.	Southport	18	43	39	or	or	0·0
Midlands.	Buxton	17	40	38	cr	cr	0·0
Midlands.	Leamington Spa	6	45	40	f.cd.r	cd.r	0·0
Midlands.	Malvern	6	45	41	c	c	0·0
Midlands.	Ross-on-Wye						
Wales.	Rhyl	14	44	37	or	or	0·0
Wales.	Colwyn Bay	16	45	36	r	r	0·0
Wales.	Llandudno	33	47	40	or	or	0·0
Wales.	Aberystwyth	14	47	45	r.or	r.o	0·0
Wales.	Tenby	13	46	43	bc.op	r	0·0
Wales.	Swansea	14	46	42	our	bc	0·0
England, E.	Cromer	3	43	41	o.cmr	o.cmr.	0·0
England, E.	Lowestoft	3	45	42	orf	orf	0·0
England, E.	Felixstowe	5	46	40	orf	orf	0·0
England, E.	Walton-on-Naze	7	46	40	ogfd	or	0·0
England, E.	Southend-on-Sea	11	49	42	mr.or	or	0·0
England, S.E.	Tunbridge Wells	16	51	43	or	or	0·0
England, S.E.	Margate	10	53	41	or	or	0·0
England, S.E.	Ramsgate	11	50	38	r	r	0·0
England, S.E.	Folkestone	20	50	44	r	r.d	0·0
England, S.E.	Hastings	19	50	44	or	or	0·0
England, S.E.	Bexhill-on-Sea	9	49	40	or	r.o	0·0
England, S.E.	Eastbourne	28	51	45	orq	orq	0·0
England, S.E.	Seaford	27	50	40	r	r	0·0
England, S.E.	Brighton	27	49	44	or.r	or	0·0
England, S.E.	Worthing	26	49	45	r	r	0·0
England, S.E.	Littlehampton	17	47	?	or.o	r	0·0
England, S.E.	Bognor	22	50	44	or	or	0·0
England, S.E.	Southsea	3	52	43	or.o	or.o	0·0
England, S.E.	Bournemouth	20	51	44	r	or.o	0·0
England, S.W.	Weymouth	20	52	46	or	p.o	0·0
England, S.W.	Exmouth						
England, S.W.	Torquay	26	52	47	od	r.o	0·0
England, S.W.	Paignton	25	52	46	or.op	op.r	0·0
England, S.W.	Falmouth	31	51	43	rq	or	0·0
England, S.W.	Penzance	20	51	44	omr	r.c	0·0
England, S.W.	Newquay	29	50	43	or	or	0·0
England, S.W.	Ilfracombe	12	50	43	or	r.o	0·0
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	86	84	0·0	52	41	35	5	or	or	or.c.bc
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	83	83	0·0	53	41	35	11	or	oe	or.bc.
Camden Sq. (Brit. Rainfall)	95	82	0·0	51	40	36	14	or.cm	or.o.or	*
Hampstead (Reservoir)	*	88	0·0	48	35	28	20	c.or	or.bc	bc.
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	82	81	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
39 Joules	1·4 Milliwatts.	3 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	2	45	39	38	c.mq	oqur	r.c.b	*
Darwen to 9 p.m.	24	42	38	37	omr	omr	or.rs	0·0
Manchester ,,	20	44	35	*	or	or	or	0·0
Birmingham ,,	4	43	38	41	r	o	or	0·0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	16	53	43	45	c.or	or	or.op	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	13	52	44	41	or	orf	or.od.	*

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

8th & 9th January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.14 / 8.13	12.0 / 12.0	3.56 / 3.57
Greenwich	8.6 / 8.6	12.7 / 12.7	4.8 / 4.9
Wick	9.0 / 8.59	12.19 / 12.19	3.38 / 3.40
Valencia	8.49 / 8.48	12.48 / 12.48	4.46 / 4.48

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 50° and 53° in many southern localities. Rain was general, ranging up to 19 mm. at Clacton. The day was sunless nearly everywhere

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 9.

9th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	985·9	39	SE	4	bc	992·4	+2	36	-4	NNE	6	–	orq	5	5	41	35	c/p	bc/p	bc/p	*
	Deerness ...	983·7	39	E	2	c	990·8	*	38	+2	NNE	3	–	cp	3	1	41	37	x bc	bc. c	cp. c	0·0
	Stornoway ...	983·5	39	ENE	2	or	994·0	+6	37	-2	N	4	N	bcq	4	15	40	36	or	or	or. c. bcqp	0·0
	Castlebay (Barra Isd.)	982·2	42	NW	3	b													bc/p. bc	bc. cp. b		
	Glasgow ...	981·1	38	WSW	4	cdq	991·6	+6	36	-5	WNW	2	–	o	*	4	42	33	cp. o	c/pq	cp. c. b. o	0·0
	Eskdalemuir ...	983·4	38	WSW	5	cr	990·0	+5	35	-4	NW	5	–	or	*	3	40	34	o. or	or	or	0·0
	Malin Head ...	984·2	43	WNW	3	cm	994·4	+5	44	+3	NW	5	W	bcqp	6	3	45	40	cm/pq	cm	bcqp	0·6
	Markree Castle							*							*		*	*				
	Blacksod Point	988·2	43	WNW	5	c/p	1001·0	+8	44	0	NNW	5	N	cmp	5	3	47	37	cmp. c/p	c/p. cm	cp. bcm	*
	Valencia ...	995·9	48	W	5	c	1003·7	+5	45	-1	NW	4	–	op	4	3	48	43	c/p	c/ph	cp	0·2
	Roche's Point	996·0	41	W	2	c	1001·9	*	43	+1	W	3	W	bc	4	2	46	41	c/pq	c/pq	b. bc.	*
	Birr Castle ...	990·3	42	SW	3	c	999·8	*	37	-3	WNW	1	–	c	*	6	43	37	or	c	or. p. c	0·6
	Donaghadee ...	984·9	42	W	4	cqmpq	992·9	+6	41	+3	NW	4	NW	bcp	4	0·2	44	36	cqmp	cqmpq	bcmql	*
	Liverpool (Bidston)	988·9	42	WSW	4	bc	989·9	+1	42	+2	W	5	W	orq	4	3	44	38	bc	op	oprh.	0·7
	Holyhead ...	989·4	44	W	6	bcq	993·6	+4	45	+2	NW	8	NW	bcq	8	0·1	46	43	op. c o	o. c/p. c	dh. bc	0·0
	Pembroke (St. Ann's)	994·2	45	W	5	bc	997·1	+7	44	-1	NW	5	NW	cq	5	2	47	44	cq	cq	bcqp.	1·2
	Scilly (St. Mary's)	999·3	47	W	7	cq/p	1003·4	+1	46	+1	NW	7	NW	bcq	7	4	48	41	c. cq/p	cq/p	bcqp	4·8
	Falmouth ...	999·2	43	WSW	4	b	998·6	+1	44	+1	WNW	6	–	bc	4	7	47	40	bcq	bc/pq	rqp	3·9
	Jersey (St. Aubin)	1003·2	45	WSW	6	cq/p	998·4	*	46	-1	WSW	5	SW	cpl	4	13	51	41	oq/rh	c. bc. p	b. qp. cp	2·8
	Portland Bill ...	997·8	45	WSW	6	bcq	994·5	-2	44	-3	W	6	W	cq	5	–	48	43	bc	bc	bc. c	*
	Dungeness ...	998·0	45	SW	5	bcq	993·4	0	44	-1	SW	5	–	b	5	2	48	42	bcq	bcq	bcq. bc	*
	Dover	998·7	42	W	4	b	994·1	0	42	0	WSW	4	SW	c	3	1	46	38	bc. b	b	b. qp. c	5·3
	Wick	982·9	41	ESE	3	c	990·9	+5	39	+1	NE	5	–	bc	4	4	42	37	o cm	cm	bcmp	*
	Nairn	982·8	31	W	1	mq	991·5	*	37	+7	W	1	–	cq	1	2	38	29	bcm. c	cm	Emp	0·0
	Aberdeen ...	982·5	35	SSW	1	b	988·3	+4	37	+8	NW	4	–	b	2	2	38	28	cq. or. c	c. bcq	bq. p. bc.	0·0
	Leith	982·3	42	SW	2	bc	989·7	+6	40	-1	WNW	2	–	op	*	2	44	37	o. cp. o	ogp. c	op. o.	*
	Tynemouth ...	986·1	42	SSW	3	bcmp	988·0	+1	37	-2	W	3	W	b	3	1	43	37	cm	cm/p	bcm	*
	Spurn Head ...	989·6	40	SW	4	bc	987·3	-2	39	0	WSW	4	–	bc	4	0·1	40	36	bc	bc	bc	0·0
	Yarmouth ...	994·2	41	SW	3	bc	990·2	0	38	-3	SSW	3	SW	c	1	1	43	37	b. cm	cm/r. bc	c	1·0
	Clacton-on-Sea	995·9	42	WSW	3	b	991·9	0	39	-3	WSW	3	W	bc	2	0·3	45	39	b bc	bc. c. bc	bc. bcp	2·2
	Nottingham ...	990·5	42	SW	4	bc	990·2	*	37	-3	W	2	W	c	*	2	44	35	bcp	c. tc	c. o	1·2
	Bath	996·2	43	SW	4	r	993·9	*	42	+2	W	2	W	o	*	9	47	38	o c. bcp	op. rhc	or. c	3·4
	London (Kew Obsy.)	996·5	42	SW	4	b	993·1	-1	40	-3	WSW	3	–	o	3	1	45	38	o. c. bc c	c. bc. b	b bc. or. o	4·1
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	991·1	27	E	4	o	993·0	o	36	+5	ESE	4	–	o	3	Trace	30	25				
	Blaavands Huk	991·5	27	ESE	1	c	989·2	-2	37	+5	SSE	2	–	o	1	5	37	23				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	994·4	43	SW	4	b	990·7	0	43	0	SW	3	–	o	4	3	45	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	998·1	45	SW	7	c	994·7	0	44	-2	WSW	6	*	bc	6	9	50	39				
	La Hève	1001·9	42	WSW	5	o	999·0	*	44	-1	WSW	5	*	o	5	9	50	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1005·1	49	W	6	b	1002·6	-1	48	0	NW	6	*	c	7	4	54	45				
	Rochefort (Ile d'Aix)	1012·6	48	WSW	5	o	1007·3	0	46	-2	NW	7	*	o	*	4	54	45				
	Biarritz	1016·3	52	WSW	3	o	1011·0	0	48	-4	NW	5	*	o	5	16	54	46				
	Paris	1006·3	45	SSW	3	o	1000·8	-2	37	-6	SSW	3	–	b	*	–	48	37				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1011·9	47	–	0	bc	1005·3	-2	42	-8	E	3	*	o	4	–	55	41				
	Perpignan ..	1017·3	52	W	1	o	1008·7	0	45	-9	NW	2	–	r	*	3	57	43				
	Sanguinaire ...	1014·6	52	E	2	bc.	1005·0	*	48	-4	E	3	*	f	5	–	57	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1025·0	53	W	3	b	1020·3	*	58	+5	W	5	–	omw	3	–	59	51				
	Rome														*							
	Azores (Horta, 8 a.m.)		*																			
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Holyhead.

8th 1p.m Ex WSW 8
& Gust 23mps
9th 7a.m NW 8

Scilly.

8th 7a.m - 1p.m W 8
1p.m Squalls force 9
6p.m Squalls W 8
9p.m Ex. W 8
9th 2a.m Ex. WNW 8
3a.m Squalls force 9.

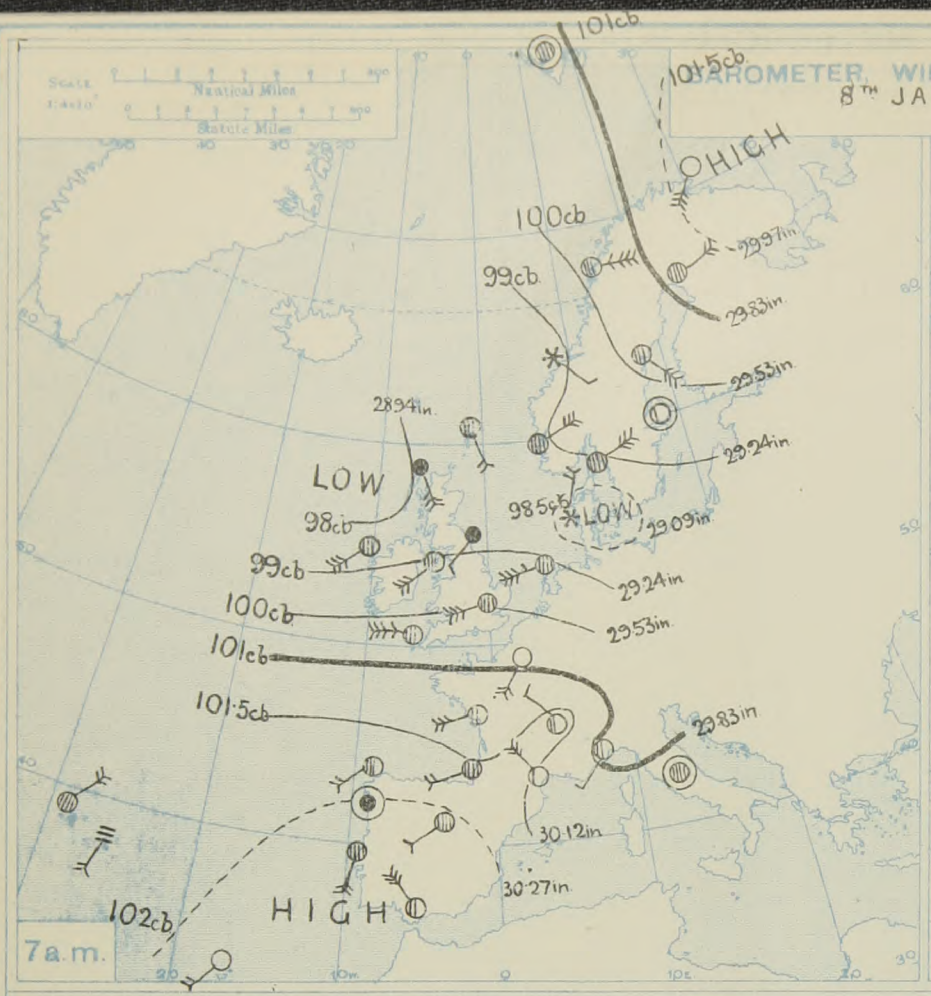
Jersey

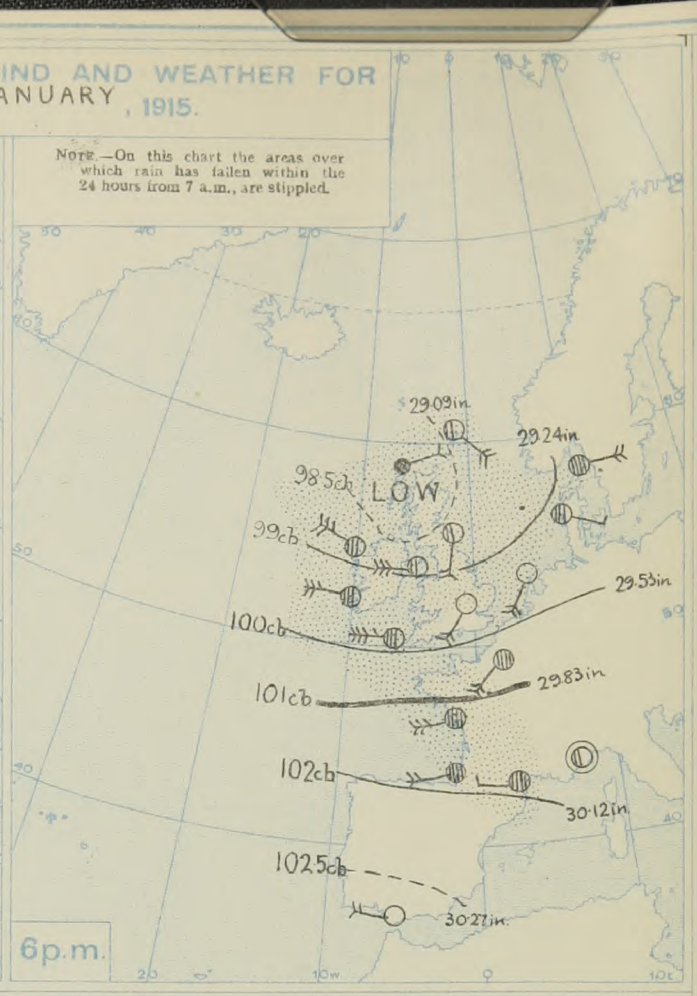
During day (8th) Squalls WSW 8.

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

BAROMETER, WIND AND WEATHER FOR 8TH JANUARY, 1915.

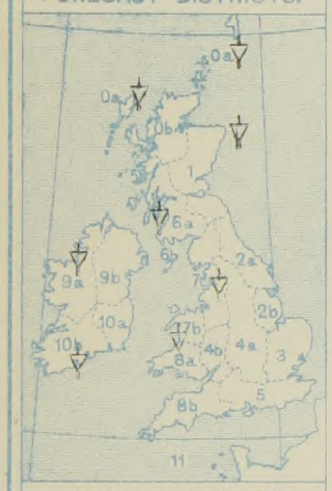
Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones still flying.

0 a, b, 1	Northerly breezes, fresh at times; generally fair to fine, but some showers; moderate temperature.
2 a, b, 3, 4 a, b, 5	Westerly to North-Westerly and Northerly breezes, fresh at times; cloudy to dull, with some rain at first, fairer later; moderate temperature.
6 a, b	Same as Nos. 0 and 1.
7 a, b, 8 a, b, 9 a, b, 10 a, b	Moderating North-Westerly to Northerly breezes; some passing showers, but mostly fair to fine; moderate temperature.

Western Channel and Bay 11

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 9TH JANUARY, 1915.

GENERAL INFERENCE.

Pressure is now on the increase all round, and a general improvement in the conditions is probable.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

99·5cb
99cb
100cb
100·5cb.
101cb
101·5cb
102cb
40°
Barometer rising
Barometer falling slightly
LOW
HIGH
29·24in
29·38in
29·53in
29·68in
29·83in
29·97in
30·12in

Inches.
31
30
29

SCALE 1:2×10⁶
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 JANUARY.

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 ⌒⌒.

DAILY WEATHER REPORT. Saturday, 9th January, 1915.

REPORTS FOR YESTERDAY.

8th January 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Portland Bill	.	.	.	.	.	1000·7	-2	47	-1	WSW	6	SW	cu	5	5	52	43
Spitsbergen	1010·4	3	-	0	3	1008·8	*	3	+5	-	0	-	*	*	*	3	-13
Vardö	1001·1	12	SW	9	b	1019·7	-1	14	-2	SW	8	-	bc	3	-	16	10
Bodö	1006·0	14	E	8	b	1002·1	-2	14	-8	E	8	-	c	3	-	19	12
Christiansund	989·2	27	SE	2	bc	987·4	-4	28	-4	SSE	1	-	s	3	1	32	27
Skudesnaes	993·9	27	ESE	6	r	987·5	0	28	-6	ENE	5	-	o	2	?	34	?
Skagen	1000·0	25	ESE	5	s	987·7	+2	25	-3	ENE	6	-	-	4	Trace	30	26
Haparanda	1018·7	2	NE	2	o	1011·3	-3	1	+12	ENE	4	-	o	4	Trace	2	-11
Hernosand	1007·7	14	NE	4	s	1001·7	-1	19	+1	SE	6	-	c	*	6	19	10
Stockholm	1006·0	14	N	2	b	995·8	-3	16	-9	-	0	-	b	*	1	19	9
Wisby	1004·3	10	SE	2	bc	992·6	-9	27	+8	E	2	-	o	*	-	28	16
Karlstad	1005·1	10	ENE	2	b	996·0	-3	10	-11	-	0	-	o	*	-	21	?
Lyons	1015·4	48	SSW	1	bc	1020·2	*	41	.	NW	1	*	bc	*	-	55	40
Madrid	1027·7	41	-	0	f	1026·4	0	43	+6	WSW	2	-	o	*	-	43	37
Lisbon	1024·8	55	SSW	3	o	1025·6	-2	57	.	SSW	4	SW	o	*	Trace	57	58
Rome	1017·6	45	-	0	c	1015·0	+3	45	+6	-	0	-	o	*	-	54	39
Horta	.	.	.	.	.	1023·5	?	55	.	NE	4	-	-	5	?	61	54
Funchal	1025·6	64	SW	3	o	1026·8	0	59	.	SW	3	-	b	3	-	68	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	35	26	b.bc.cz	cz	0·0
Scotland.	Banff	-	41	30	*	*	0·1
Scotland.	St. Andrews	3	41	30	*	*	0·1
Eng. N.E.	Harrogate	6	42	34	bc.c.o	or	0·5
Eng. N.E.	Scarborough	*	42	36	o.c	o	0·6
Eng. N.E.	Skegness	3	42	35	bc	bc	1·3
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	4	45	39	bc	c.o	0·8
Eng. N.W.	Southport	5	44	38	bc.c.o	or.c.bc	0·5
Midlands.	Buxton	12	39	32	bq	ber	1·1
Midlands.	Leamington Spa	1	45	38	c.bc	bc.c	3·0
Midlands.	Malvern	3	44	39	c	cr	0·0
Midlands.	Ross-on-Wye	6	45	42	ome	od	0·0
Wales.	Rhyl	3	45	38	c.bc.or	c.o	1·5
Wales.	Colwyn Bay	3	45	37	bc	bcp	0·7
Wales.	Llandudno	2	45	41	o	c	0·5
Wales.	Aberystwyth	9	47	42	r.or	o.c.o	0·7
Wales.	Tenby	2	47	42	bc.c.o	bc.op	1·5
Wales.	Swansea	6	47	40	hp	hr	2·0
England, E.	Cromer	1	42	37	c.bc	bc.o.c	1·1
England, E.	Lowestoft	2	44	39	c or.bc	bc.c	1·0
England, E.	Felixstowe	4	45	40	om	bc	2·2
England, E.	Walton-on-Naze	14	44	39	cg bc	bc	2·0
England, E.	Southend-on-Sea	3	46	40	bc.b	bc	4·7
England, S.E.	Tunbridge Wells	1	46	39	bc	c.bc.b.	4·1
England, S.E.	Margate	2	47	41	c	b	3·9
England, S.E.	Ramsgate	3	46	39	bc	bc.	4·4
England, S.E.	Folkestone	3	47	41	or.bc	bc.b.o	4·4
England, S.E.	Hastings	3	47	41	or.bc	bc.	3·6
England, S.E.	Bexhill-on-Sea	3	50	41	bc	bc	4·9
England, S.E.	Eastbourne	3	48	43	o.bc.	o.b.	3·5
England, S.E.	Seaford	3	48	33	c	bc	4·1
England, S.E.	Brighton	2	46	40	cp.c.bc.	c.bc.b.	2·6
England, S.E.	Worthing	3	47	41	bc.b	bc.b.	4·2
England, S.E.	Littlehampton	2	47	39	b.bc.	b.bc.	4·3
England, S.E.	Bognor	3	47	42	bcp	b	4·8
England, S.E.	Southsea	-	48	42	bc	b	4·9
England, S.E.	Bournemouth	-	47	40	c.bc	b.	4·9
England, S.W.	Weymouth	2	47	42	bc.b	b	3·8
England, S.W.	Exmouth						
England, S.W.	Torquay	6	47	42	or	p.c.bc.	5·0
England, S.W.	Paignton	7	48	41	bcp	bc	4·9
England, S.W.	Falmouth	5	47	42	bcq	bcqp	3·9
England, S.W.	Penzance	4	48	43	bc	bcprh.	4·0
England, S.W.	Newquay	5	47	42	bcqph	bcqph.	3·1
England, S.W.	Ilfracombe	4	48	43	cph.c	cp.c	1·5
England, S.W.	Weston-super-Mare	8	47	39	bcr.b	bcp.	2·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine to Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	79	94	4·4	45	39	33	4	bc	b	bc.c.or
City (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	72	96	4·0	46	39	32	3	bc	bc	b.or.oc
Camden Sq. (Brit. Rainfall)	73	94	3·3	46	38	33	2	bc	bc	*
Hampstead (Reservoir)	*	93		43						
Richmond Park	*	*	4·6							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	97	4·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
289 joules	10·0 Milliwatts.	25 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	13	40	32	32	orshow	c.b.w	r	0·9
Manchester ,,	1	44	35	*	or.c.bc	bc.o	op	0·8
Birmingham ,,	1	43	36	32	b.o	o.b	c.or	1·1
Oxford to 9 p.m.	*	44	39	34	bm.or	wr.cp.b	cp	*
Teignmouth to 9pm.	5	48	?	38	cr	bc	cp	4·4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	6	50	41	36	b.bc.c	c.bc	b	*

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

9th. 10th. January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.3 / 8.3	12.0 / 12.1	3.57 / 3.59
Greenwich	8.5 / 8.5	12.7 / 12.8	4.9 / 4.11
Wick	8.59 / 8.58	12.19 / 12.20	3.40 / 3.42
Valencia	8.48 / 8.48	12.48 / 12.49	4.48 / 4.50

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 51° at Jersey, and 50° at Bexhill. Rain fell in all districts, 15 mm. at Stornoway. Southern England had a fine day, with sunshine up to 5·3 hours at Dover, while the northern districts had little or none.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

Southern Europe. France, &c. Northern Europe. Iceland.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 10

Sunday 10th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	997·4	34	NNW	3	bcm	998·6	0	32	-4	NNW	2	NW	bc	2	1	38	31	bc	bcsp	bcsp	*
	Deerness ...	999·6	35	N	4	cprs	1000·0	*	33	-5	WNW	2	-	cpo	3	1	39	32	cg c	cpo	cpo	0·3
	Stornoway ...	1002·9	33	NW	1	bc	998·1	-4	35	-2	SE	3	E	bc	3	2	39	27	bc	bcsp	b.po.bc	2·1
	Castlebay (Barra Isd.)	1003·4	38	N	3	b	996·4	-8	42		SSE	5	-	cp	5	1	44	35	fph bc	bc.b	bc.cp	3·6
	Glasgow ...	1001·4	35	-	0	b	1003·3	-3	27	-9	E	1	-	b	*	-	42	27	o.c bc	bc.b	bxs	5·2
	Eskdalemuir ...	1000·5	35	NNW	3	b	1005·5	-1	19	-16	-	0	W	bx	*	1	37	18	ors	bq	qbst	1·6
	Malin Head ...	1004·3	43	N	5	cq/ph	998·5	-5	38	-6	SSW	4	-	om	4	1	44	36	cq/p	c/ph	om	1·7
	Markree Castle							*							*							
	Blacksod Point	1007·4	41	WNW	3	cp	997·3	-8	46	+2	WNW	5	NW	or	5	5	47	39	bcp	cp	cp.omd	*
	Valencia ...	1011·2	45	NW	3	b	1004·0	-4	49	+4	SW	4	-	r	4	8	49	42	cp	c.bp	or	3·4
	Roche's Point	1010·3	42	NW	2	c	1005·7	*	46	+3	W	2	-	o	3	1	47	40	bc.b	b	b.or	
	Birr Castle ...	1007·0	38	W	1	bc	1002·4	*	41	+4	-	0	-	r	*	3	41	34	bc	bc	2.or	3·6
	Donaghadee ...	1002·3	43	NNW	5	bcq	1002·4	-3	36	-5	S	3	-	ogm	3	3	44	33	om.bcph	bcpq	bcq.bc	*
	Liverpool (Bidston)	1001·1	41	NW	3	b	1006·0	0	37	-5	WSW	2	-	bc	2	2	43	37	bcsp	bc	bmx	2·3
	Holyhead ...	1002·7	44	NW	6	bcq	1006·2	-3	43	+2	WSW	4	-	og	3	-	46	41	b.bq	bcph.c	bc.b.o	4·0
	Pembroke (St. Ann's)	1006·0	45	NNW	4	c	1008·1	-2	46	+2	WSW	4	SW	bcq/p	3	Trace	46	43	cq	cq	cq	3·1
	Scilly (St. Mary's)	1008·5	46	NW	7	cq/p	1011·4	-2	47	+1	W	5	W	orq	6	1	50	44	cq/p	cq/p	bcq.op	5·5
	Falmouth ...	1007·3	45	NW	2	b	1011·2	-1	42	-2	W	3	-	cp	3	3	48	39	bcph	b	bc	5·6
	Jersey (St. Aubin)	1004·3	47	NW	4	c	1012·3	*	42	-4	WNW	3	NW	bc	3	1	49	42	op.bc	bc.c	b.bc	3·0
	Portland Bill ...	1002·1	45	NW	5	b	1010·2	+1	44	0	W	3	-	c	3	1	47	43	bc c	bc	b.bc.c	*
	Dungeness ...	997·7	39	NW	4	bc	1007·7	+3	32	-12	WNW	1	-	bx	3	-	46	31	bc	bc	bc.bx	*
	Dover	998·1	40	WNW	5	b	1008·7	+5	33	-9	SW	2	-	b	2	0·2	45	32	op.bc.b	bc.o.c.b	bx	2·2
	Wick	1000·3	35	N	4	c	1000·8	-2	28	-11	W	1	-	bc	3	5	40	27	o/prs	co.cm	or.bcm	*
	Nairn	1001·2	34	WNW	2	c	1000·9	*	27	-10	-	0	-	cg	1	1	38	26	bcp	pro.c	c.bc	0·1
	Aberdeen ...	999·5	34	N	4	s	1002·3	-1	28	-9	-	0	-	b	2	6	39	28	bc.cp.b	c/prs	co.bc.b	1·8
	Leith	1001·0	39	NW	1	b	100 3·0	0	29	-11	E	1	-	bc	*	-	41	28	o.c.bc	bc.b	b.bc	*
	Tynemouth ...	997·2	38	NW	3	bm	1004·2	+1	36	-1	NW	3	-	bm	3	-	43	31	om	om	bm	*
	Spurn Head ...	994·3	35	NNW	6	c	1004·8	+2	33	-6	WNW	4	-	bc	5	5	40	32	cq	cq/p	bcq/p	0·8
	Yarmouth ...	994·1	39	W	4	o	1005·8	+4	33	-5	W	2	W	bc	1	1	41	32	c	c.or	bcp	0·0
	Clacton-on-Sea	996·8	41	WNW	3	c	1007·1	+3	34	-5	NW	2	-	b	2	0·3	43	33	bc.c	cz.cp	c.bc.b	1·1
	Nottingham ...	998·7	40	WNW	4	b	1006·9	*	31	-6	SW	1	-	bmx	*	1	42	30	cp.om	o.c.b	b	0·2
	Bath	1001·7	42	NW	4	r	1010·1	*	32	-10	W	1	W	c	*	1	48	31	o.c.bc	bc c.op	op.c.bc	5·6
	London (Kew Obsy.)	999·4	38	WNW	3	b	1004·1	+3	33	-7	SW	2	-	bx	*	2	45	32	o.bc.bc.o	p.c.bcp.b	b.bx	3·1
ICELAND, FAEROE, &c.	Spitsbergen ...	1003·9	18	-	0	b	1001·3	*	25	+27	SE	2	*	b	*	*	25	12				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1001·0	23	SE	4	o	997·6	-1	19	-2	SE	4	-	c	2	*	23	9				
	Bodö	993·3	18	E	5	b	992·7	0	18	+4	E	5	-	o	2	-	19	14				
	Christiansund	989·7	30	NW	5	s	989·7	+2	34	+7	NW	5	-	c	4	12	37	28				
	Skudesnaes ..	993·6	28	NE	2	c	997·0	0	27	-3	NE	2	-	b	2	?	32	23				
	Færder (Kristiania Fjord)	995·3	27	E	2	o	996·6	+2	21	-2	N	2	-	o	1	?	27	21				
	The Scaw (Skagen)	991·8	32	ESE	4	s	995·0	+3	30	0	NNE	4	-	c	3	1	32	28				
	Blaavands Huk	989·5	37	SW	2	r	995·3	+5	36	-1	NNW	2	-	o	3	3	39	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	991·5	41	SW	2	c	1001·0	+6	41	-2	NW	6	-	bc	6	3	45	39				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	997·2	43	WNW	7	c	1007·7	+3	39	-5	WNW	6	*	b	5	2	46	37				
	La Hève	1000·8	43	WNW	5	c	1010·7	*	43	-1	NW	3	*	c	4	1	45	39				
	Ushant	1010·3	50	NNW	6	c	1014·6	*	48		NNW	5	*	c	4	-	52	43				
	Brest (St. Mathieu)	1009·2	49	NNW	5	c	1015·5	0	48	0	NW	4	*	o	3	3	54	45				
	Rochefort (Ile d'Aix)	1008·7	47	WNW	6	c	1016·8	+4	46	0	NW	3	*	c	*	Trace	50	45				
	Biarritz	1013·7	49	WNW	6	o	1014·3	+3	49	+1	W	4	*	c	6	14	54	46				
	Paris	1001·2	43	WSW	2	b	1011·3	+6	36	-1	SW	2	-	b	*	1	46	36				
	Belfort	1003·1	37	W	6	o	1009·3	*	32		WSW	4	*	o	*	3	43	32				
	Lyons	1007·3	39	SSE	1	o	1013·7	*	37		W	1	*	o	*	1	47	36				
	Nice	1000·4	41	E	2	c	1004·6	+4	42	0	E	3	*	bc	2	-	50	37				
	Perpignan ..	1009·7	48	NW	3	b	1015·5	+6	43	-2	NW	6	-	b	*	-	52	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022·1	51	NW	5	c	1026·7	+1	46	-4	SW	2	-	o	4	4	52	46				
	Madrid (8 a.m.)	1019·4	45	NW	3	b	1028·2	+4	37		NW	2	-	b	*	-	46	36				
	Lisbon (9 a.m.)	1026·3	50	NW	3	b	1029·1	0	48	-2	NW	4	-	b	6	-	54	46				
	Gibraltar							*														
	Rome	998·0	54	SW	2	r	1005·1	+4	45	-3	NE	2	-	†	*	12	55	43				
	Azores (Horta, 8 a.m.)		*				1029·7	+1	58	+7	SSW	4	SW	o	2	-	59	51				
	Madeira (Funchal)	1027·0	63	N	3	o	1029·2	0	55	-2	NE	3	w	b	-	-	?	?				

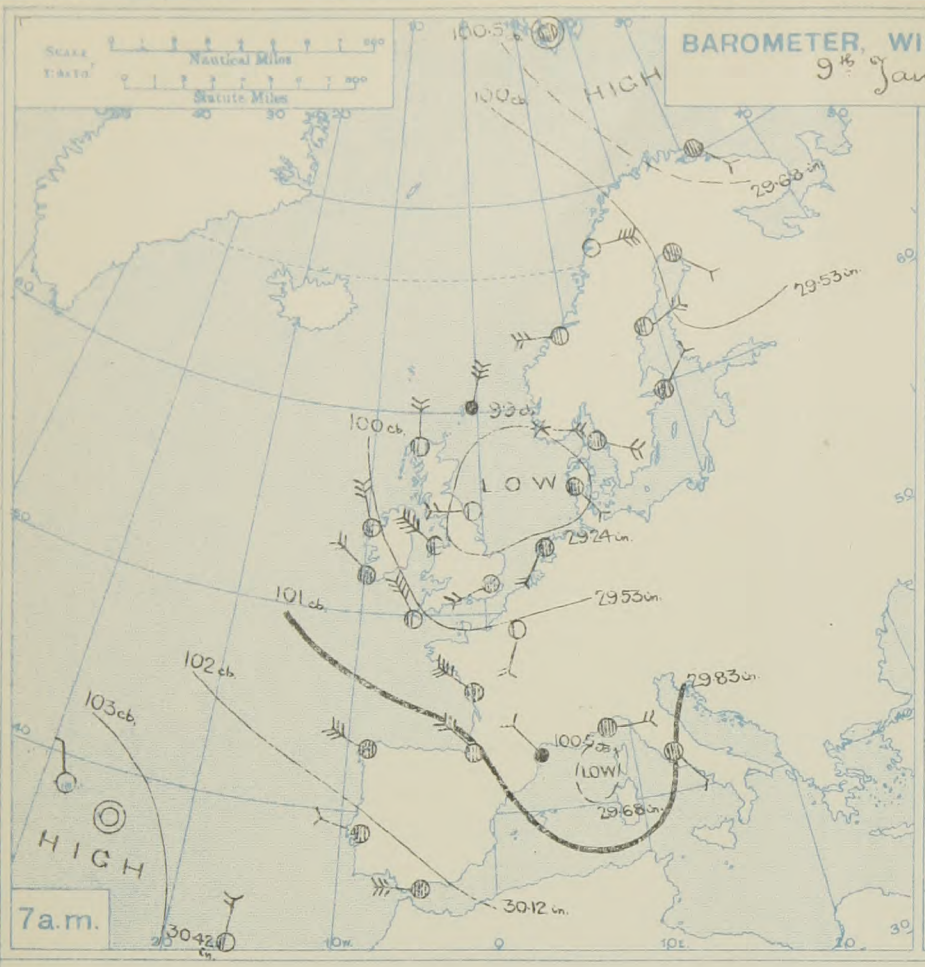
RAINFALL.

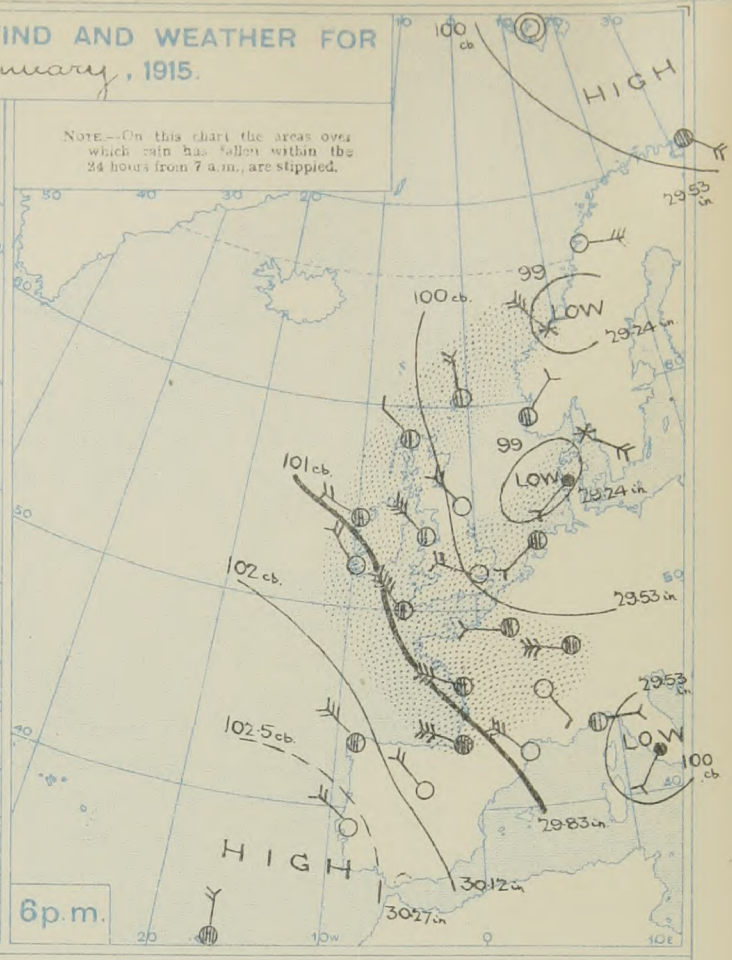
Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

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

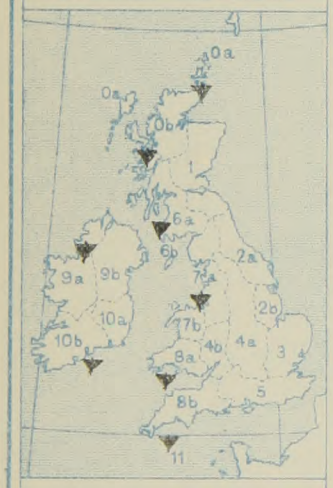
BAROMETER, WIND AND WEATHER FOR 9th January, 1915.





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted today at 8.20 a.m., in Dists. 0, & 6 & 10

Western Channel and Bay 11

0{a b} 1 2{a b} 3 4{a b} 5 6{a b} 7{a b} 8{a b} 9{a b} 10{a b} 11

Increasing South-Easterly winds, strong to a gale at times, veering South-Westerly later; squally, unsettled, some rain, sleet or snow; cold.

Calms and light variable North-Westerly breezes, backing South-Westerly and freshening; fair to fine, less settled later, some rain, with sleet or snow in places; cold.

Increasing South, Westerly winds, strong to a gale in places; squally, unsettled, some rain or sleet; cold to moderate temperature.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division

W. N. SHAW, Director

Millibars Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., Sunday, 10th JANUARY, 1915.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

HIGH

LOW

Barometer rising

Barometer falling

100 cb

99·5 cb

101 cb

101·5 cb

102 cb

102·5 cb

103 cb

29·53 in.

29·24 in.

29·38 in.

29·68 in.

29·83 in.

29·97 in.

30·12 in.

30·27 in.

Inches.

31

30

29

SCALE 1 : 2·10⁷

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 JANUARY.

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. T, thunder.
TK, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

DAILY WEATHER REPORT. Sunday, 10th January, 1915.

REPORTS FOR YESTERDAY

9th January

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
Spitsbergen	1002.0	12	-	0	0	1007.8	+	2	-1	-	0	-	0	+	*	12	2
Vardö	1012.4	19	SW	2	b	1006.9	-3	21	+7	SSE	2	-	0	2	*	21	7
Bodö	9977	12	E	7	b	993.9	0	14	0	E	7	-	c	3	*	14	9
Christiansund	989.9	28	W	3	s	990.1	+1	29	+1	W	5	-	c	4	11	29	27
Skudesnaes	990.6	30	SE	4	s	990.0	0	30	+2	ESE	4	-	s	2	?	30	27
Faerder	996.0	19	NNE	3	o	995.3	0	23	+4	ENE	2	-	o	1	?	23	19
Haparanda	1006.9	1	ENE	4	o	1000.3	-5	3	+2	SE	2	-	o	*	1	5	0
Hernösand	993.8	14	NNE	6	s	998.0	0	10	-9	NE	4	-	c	*	2	19	9
Stockholm	991.9	25	NNE	2	o	994.7	+1	23	+4	NNE	2	-	o	*	-	27	19
Wisby	985.2	27	NE	8	s	994.0	+4	28	+18	N	4	-	o	*	2	30	?
Karlstad	995.3	12	NE	2	b	996.8	0	18	-9	-	0	-	o	*	-	18	9
Lisbon	1022.4	57	SW	5	o	1022.6	+2	50	-7	WNW	2	-	o	?	3	59	50
Rome	1014.3	50	SE	1	bc	1010.0	+4	48	-7	SE	1	-	o	*	-	57	45
Horta						1031.4	+1	51	-4	NW	1	-	b	2	-	57	50
Funchal	1025.9	63	SW	3	bc	1027.0	0	57	-2	N	3	-	bc	3	-	68	57

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr
Scotland.	Oban						
Scotland.	Banff	8	42	31	qp.rh *	qrs.ch *	0.3
Scotland.	St. Andrews						
Eng., N.E.	Harrogate	4	40	35	cp.bc	bc.b	0.6
Eng., N.E.	Scarborough	*					
Eng., N.E.	Skegness	1	41	35	o	o	0.4
Eng., N.W.	Morecambe	2	42	39	bc.b	b.bc	5.3
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	2	43	39	b.bc.c	bc.c.b	5.0
Midlands.	Buxton	14	39	33	cr	bc	0.8
Midlands.	Leamington Spa	1	44	36	c.bc	bc	1.8
Midlands.	Malvern	9	45	37	bc	bcar	0.0
Midlands.	Ross-on-Wye	5	47	37	b.bc	bcpq.b	5.2
Wales.	Rhyl	6	46	40	c.or	c.bc	0.3
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	6	48	42	r.o	o.c.o	0.0
Wales.	Tenby	-	47	41	bc	b	5.0
Wales.	Swansea	4	47	41	b	bc	6.0
England, E.	Cromer	1	42	37	o	ber.ow	1.0
England, E.	Lowestoft						
England, E.	Felixstowe	1	42	38	bcm	cgp	0.8
England, E.	Walton-on-Naze	1	43	37	bc.c	op.bc	1.6
England, E.	Southend-on-Sea	1	42	39	c.o.bc	bc.c	1.4
England, S.E.	Tunbridge Wells	1	44	37	or.c.bc	bc.cp.b	1.9
England, S.E.	Margate	1	44	39	cp	bc.b	1.1
England, S.E.	Ramsgate	1	42	36	c	c	1.2
England, S.E.	Folkestone	1	45	39	cr.o.b	bc.c	1.9
England, S.E.	Hastings	2	48	38	op.bc.b	c.b	2.3
England, S.E.	Bexhill-on-Sea	5	48	39	bc	c	4.0
England, S.E.	Eastbourne	1	46	42	o.bc.b	b.bc.o	4.5
England, S.E.	Seaford	4	46	39	b	b.r	3.4
England, S.E.	Brighton	2	45	42	c.bc	bc.cp.c	4.6
England, S.E.	Worthing	1	46	40	bc	bc	4.4
England, S.E.	Littlehampton	1	46	*	b	b.bc.c	5.0
England, S.E.	Bognor	1	47	43	b	bcp	4.8
England, S.E.	Southsea						
England, S.E.	Bournemouth	-	46	41	bc	b	5.3
England, S.W.	Weymouth	0.3	47	43	bc.b	b	5.2
England, S.W.	Exmouth						
England, S.W.	Torquay	1	48	42	c	c.bc.b	5.3
England, S.W.	Paignton	1	48	42	cp.o	bc	4.4
England, S.W.	Falmouth	8	48	40	bcph	b	5.6
England, S.W.	Penzance	4	50	43	bc	bc	6.2
England, S.W.	Newquay	4	47	41	cpq.b	bc	3.8
England, S.W.	Ilfracombe	1	48	43	bc	bc.c.bc	3.5
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	73	90	0.7	44	33	26	-	c	c.b	bc
City (Bunhill Row)	*	*	1.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	98	1.9	47	31	27	-	r.bc.o	bc.bmx	bmx
Camden Sq. (Brit. Rainfall)	76	93	2.4	45	31	27	-	o.bc	bc.b	*
Hampstead (Reservoir)	*	97	2.5	43	27	18	-	bc	bc	bc
Richmond Park	*	*	2.5							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	72	30	2.6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

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

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	1	44	37	36	cp.b	b	bcp	*
Darwen to 9 p.m.	7	40	33	32	o.cr	bcm	bc	2.8
Manchester ,,	6	44	38	*	or	o.c	c.b	0.3
Birmingham ,,	1	43	36	34	*	cr	o	1.6
Oxford to 9 p.m.	*	44	37	32	or.c	c	c.op.bc	*
Teignmouth to 9pm.	1	48	42	38	cp	c.bc	bc	3.9
Plymouth ,,	2	47	42	-	bc	bc	bc	3.0
S. Kensington (Museum Grounds to 6 p.m.)	4	45	38	32	op.b.c	or.o	c.b.bm	*

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

10th & 11th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8 3 / 8 2	12.1 / 12.1	3.59 / 4.0
Greenwich	8 5 / 8 4	12 8 / 12 8	4.11 / 4.12
Wick	8.58 / 8.57	12.20 / 12.20	3.42 / 3.43
Valencia	8.48 / 8.47	12.49 / 12.49	4.50 / 4.51

PILOT BALLOON ASCENTS for the PAST WEEK.

Component Velocities To East and To North in Metres per Second.

Station Date & Hour		To East	To North	To East	To North	To East	To North	To East	To North	To East	To North	To East	To North	To East	To North
		S. Farnborough 4h.	S. Farnborough 15h. 30m.	S. Farnborough 6h.	S. Farnborough 9h. 30m.	S. Farnborough 8h.	S. Farnborough 14h. 30m.	Eskdalemuir 9h.	Eskdalemuir 13h.						
Heights in Kilometres.	3	+15	-14	+22	-5										
	2	+10	-14	+17	-3	+18	-2								
	1	+11	-11	+17	-2	+25	+4	0	-17						
	0.5	+12	-9	+16	0	+16	+5	+4	-12						
	0	+5	-1	+5	+2	+6	+3	-	-						

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 11

11th January, 1915

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Past 24 Hours. Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	992.5	35	SE	1	bcsp	984.7	−2	40	+8	SE	5	–	om	4	4	40	30	bc	bc	cp.om	*
	Deerness ...	987.5	38	SSE	5	ow	977.6	*	40	+7	SE	4	–	r	5	13	41	31	ops.c	c.ow	or	0.0
	Stornoway ...	981.7	39	SE	4	or	977.5	−1	41	+6	NW	4	–	or	4	24	41	35	orq	or	or	0.0
	Castlebay (Barra Isd.)	979.8	46	SSE	4	r	981.6	0	43	+1	W	6	–	ohp	5	11	47	40	ohp	ohp.r	r.ohp	0.0
	Glasgow ...	985.5	37	SE	1	orq	983.3	+1	38	+11	W	3	–	b	*	11	40	27	orsp	orsp.r	omp.b	0.0
	Eskdalemuir ...	987.3	34	S	3	or	984.5	+1	37	+18	W	6	W	bcq	*	13	40	18	c 0.00	00.or	op.c	0.0
	Malin Head ...	981.7	45	SW	4	omd	986.2	0	42	+4	WNW	8	–	oq	8	6	45	37	omr	omd	orq	0.0
	Markree Castle							*							*		*	*				
	Blacksod Point	987.7	45	WNW	6	or	993.4	−1	40	−6	WNW	6	NW	bcp	5	14	?50	37	or	or	or	*
	Valencia ...	997.3	47	SSW	6	0	1000.0	−1	44	−5	WSW	6	–	bc	6	8	50	41	omr	omr	omp.c	0.0
	Roche's Point	996.3	49	W	4	b	999.9	*	42	−4	WNW	3	–	b	3	2	50	42	od	od.b	b	*
	Birr Castle ...	990.7	46	W	4	c	995.4	*	38	−3	W	2	–	o	*	11	48	38	or	or.c	op	0.0
	Donaghadee ...	983.9	45	SW	4	omr	988.0	+2	38	+2	W	5	W	bcpq	4	9	46	35	omr	omr	bepq	*
	Liverpool (Bidston)	990.5	39	SSW	3	r	989.7	0	42	+5	WSW	7	SW	cq	6	12	47	36	or	or	bcq	0.0
	Holyhead ...	989.6	48	WSW	7	opqm	992.7	0	44	+1	W	7	NW	bcq	6	12	48	42	op.orm	orm	p.c.bc.c	0.0
	Pembroke (St. Ann's)	995.0	47	SW	8	r	997.9	−1	44	−2	WNW	6	NW	cpgq	6	11	49	44	bcpq	oq.rm	oq.rm	0.0
	Scilly (St. Mary's)	‡1002.3	49	WSW	6	omr	1002.8	−1	47	0	W	8	–	epq	7	2	50	44	om.c	omr	omr.pq	0.0
	Falmouth ...	1001.9	48	WSW	7	r	1002.4	0	45	+2	W	5	–	o	4	9	50	42	r.or	odqr	epq	0.0
	Jersey (St. Aubin)	1007.1	47	SW	3	omd	1003.4	*	46	+4	WSW	6	–	egpq	4	12	48	40	c.op	omd	d.b.opq	0.3
	Portland Bill ...	1001.4	46	WSW	5	0	998.5	+3	44	0	W	6	W	bcq	5	5	47	42	c.or	c.or	or.cq	*
	Dungeness ...	1002.7	45	SW	5	or	996.3	+5	43	+11	W	5	W	b	4	3	47	30	bc	bc.or	or.bc.b	*
	Dover						996.1	+4	41	+8	WSW	4	–	b	4	10	48	38			or.bcp	4.0
	Wick	986.8	38	SE	5	0	978.1	−1	34	+6	–	0	–	m	4	7	41	26	bem.om	omp	or.omd	*
	Nairn	985.3	38	SSE	1	0	978.1	*	37	+10	SSW	2	–	cu	2	4	38	24	bc.c	cq	p.c	0.0
	Aberdeen ...	988.4	39	SSE	5	T	978.6	0	34	+6	–	0	–	om	3	4	40	26	b.bcq	oq.br	or.om	0.2
	Leith	989.4	38	SE	2	r	981.7	+1	39	+10	WSW	3	–	bc	*	8	41	27	f	r	r	*
	Tynemouth ...	990.2	37	S	3	omr	983.4	+1	40	+4	WNW	4	–	b	3	7	44	30	cm	cm	bcq	*
	Spurn Head ...	993.7	38	S	7	r	?986.2	+2	40	+7	W	7	–	bc	6	6	40	36	bcm	or	orm	1.3
	Yarmouth ...	999.8	38	S	3	or	989.9	+3	38	+5	W	3	–	bc	2	7	38	32	bcm	bcm.o	or.bc	3.7
	Clacton-on-Sea	1002.6	46	SSE	3	T	993.3	+4	40	+6	W	2	–	b	2	7	45	33	b.bc.c	c.oqr	orq.b	2.0
	Nottingham ...	993.7	41	S	4	r	991.2	*	42	+11	W	3	W	o	*	9	46	30	c.odm	rm	r.o	0.0
	Bath	1000.3	45	W	3	r	997.2	*	43	+11	W	5	W	b	*	2	50	31	c.or.d	od	d.orq.p	0.0
	London (Kew Obsy.)	999.8	44	SW	4	or	995.7	+2	43	+10	WSW	5	W	b	*	7	48	33	bc bmaom	rm o or	or.o.bc.b	0.7
ICELAND, FAEROE, &c.	Spitsbergen ...	998.4	14	–	0	b	998.4	−2	1	−24	–	0	*	b	*	*	25	1				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*				*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	999.8	16	–	0	0	999.3	0	10	−9	SW	5	–	o	3	*	19	10				
	Bodö	993.6	32	E	5	S	992.8	0	19	+1	E	4	–	S	2	?	32	12				
	Christiansund	999.5	28	NE	2	b	992.6	0	27	−7	NE	2	–	b	4	–	34	27				
	Skudesnaes ..	996.0	34	SE	2	s	987.1	−5	34	+7	SE	6	–	o	4	?	34	25				
	Færder (X'tiania Fjord)	997.7	23	NNW	1	f	995.5	−1	21	0	N	3	–	f	1	–	23	19				
	The Scaw (Skagen)	998.6	23	N	1	b	993.6	−3	34	+4	SSE	4	–	o	3	Trace	34	21				
	Blaavands Huk	1000.8	34	S	1	r	987.3	−9	34	−2	SSE	6	–	s	5	1	37	28				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1004.2	37	SW	2	b	987.4	+1	45	+4	W	6	–	o	4	8	43	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1003.5	34	SW	6	r	997.3	+4	46	+7	?W	7	*	b	7	8	46	34				
	La Hève	1003.3	42	WSW	5	o	1002.4	*	46	+3	WSW	5	*	o	5	5	46	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1008.8	49	WSW	5	o	1008.2	0	50	+2	W	4	*	o	4	3	54	45				
	Rochefort (Ile d'Aix)	1016.4	49	SW	4	o	1012.4	+2	50	+4	W	7	*	r	*	2	50	46				
	Biarritz	1020.4	48	WSW	5	r	1019.9	0	53	+4	SW	4	*	o	4	9	50	48				
	Paris	1011.1	43	SSW	3	o	1002.6	+5	45	+9	W	3	–	b	*	5	48	32				
	Belfort							*					*		*							
	Lyons	1019.7	35	S	1	0	1013.0	*	37		S	1	*	r	*	2	40	36				
	Nice	1011.5	44	NE	4	b	1011.7	−3	41	−1	E	2	*	c	3	–	52	36				
	Perpignan ..	1020.2	48	NW	3	b	1017.7	−1	52	+9	W	3	NW	b	*	–	52	32				
	Sanguinaire ...	1009.2	50	W	3	c	1013.3	*	50		W	4	*	m	5	–	55	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026.3	52	WSW	5	r	1026.4	0	50	+4	SW	4	–	o	3	2	54	48				
	Madrid (8 a.m.)	1027.3	45	NW	3	b	1030.6	+2	34	−3	–	0	–	o	*	–	45	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*														
	Rome														*							
	Azores (Horta, 8 a.m.)	1027.8	*	S	4	f	1025.5	−2	61	+3	SSW	4	*	f	3	1	61	58				
	Madeira (Funchal)	1028.8	60	NE	3	o	1029.1	0	57	+2	ENE	3	–	o	3	–	66	57				

GALES.

Duration and Extreme Force in British Islands.

Malin Head.
11th 5am-7am WNW 8.

Valencia (Wireless Station)
11th 3am W. 8.

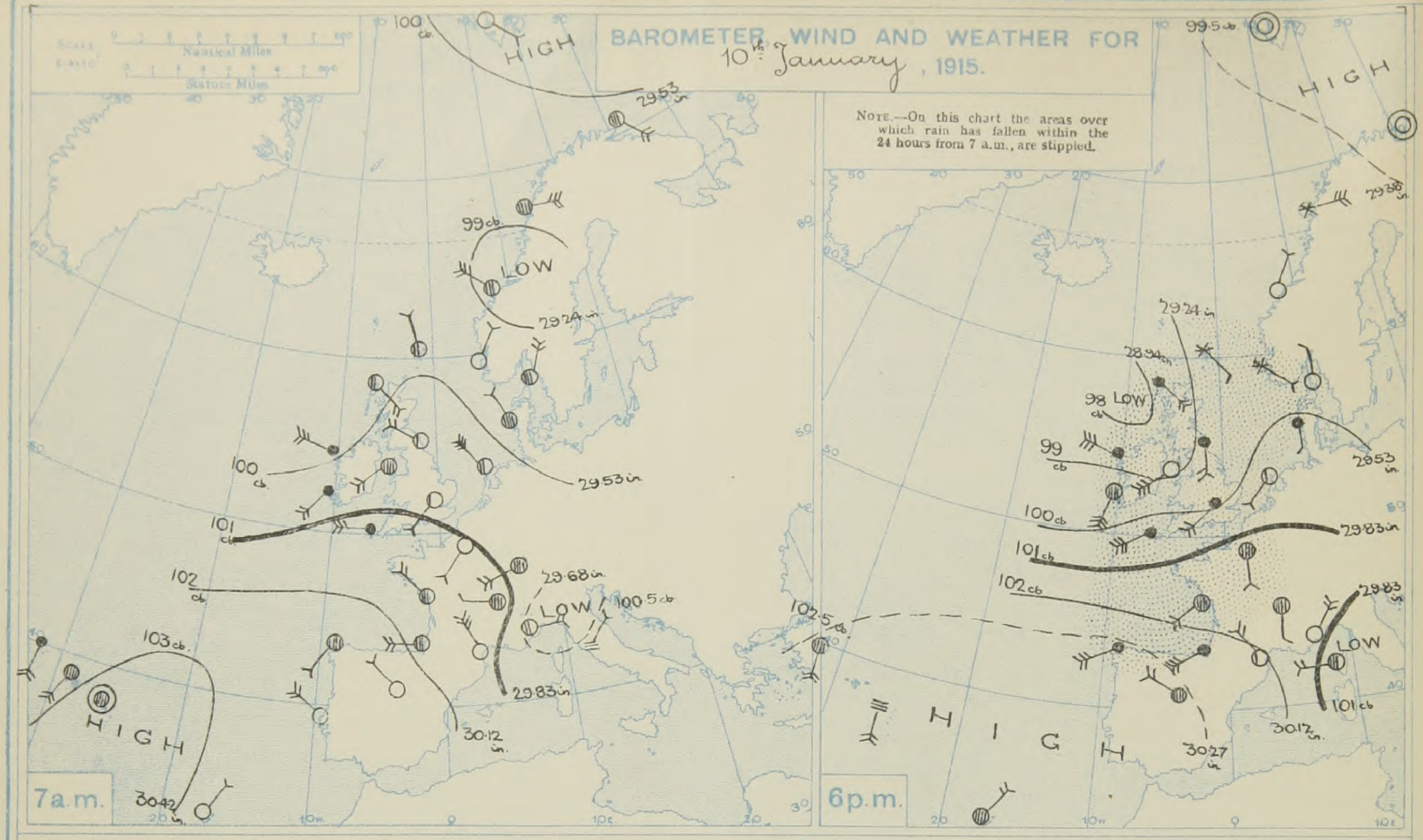
Pembroke
10th 5pm-8pm SW-W 8

Scilly
10th 8pm-11th 7am W 8, squalls 9.

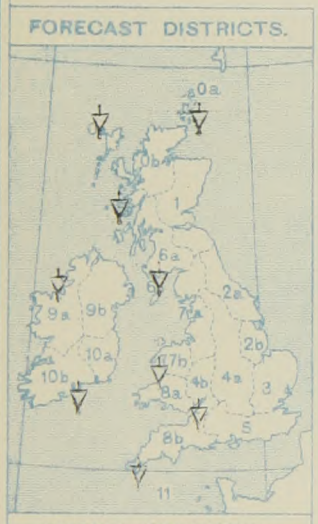
Southport
11th 3am-8am W 8 gusts 57 m.p.h.

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

BAROMETER, WIND AND WEATHER FOR 10th January, 1915.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted at 8·20 a.m.

0	a, b	Moderate or fresh Southerly and South-Easterly winds; cold, changeable, some showers, hail or sleet in places.
1, 2	a, b	Wind backing to the Southward and freshening; fair at first, some rain or sleet later; temperature below the normal.
3, 4, 5	a, b	Westerly to South-Westerly winds, moderate in force at first, but increasing later; fine to-day, some rain to-night or to-morrow; moderate temperature.
6, 7, 8, 9, 10	a, b	Wind backing to the South-Westward and increasing in force, a gale in places; fair at first, squally and rainy later; moderate temperature.
Western Channel and Bay 11		Strong Westerly or South-Westerly winds, a gale in places, with a rough sea; squally, showery; moderate temperature.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

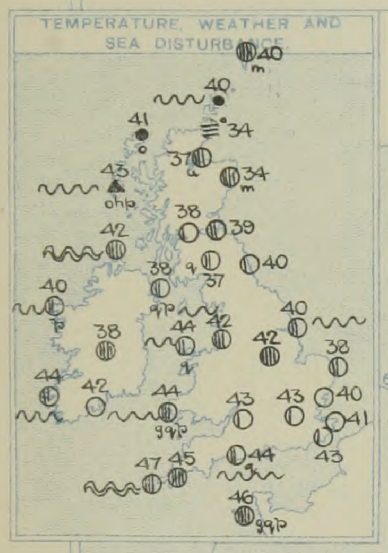
W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., Monday, 11th JANUARY, 1915.

GENERAL INFERENCE.

The depression over Scotland will remain almost stationary. Secondary disturbances will advance over Ireland and England from the westward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



Mrs. Inches.
31
30
29

SCALE 1 : 2 × 10⁶
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 JANUARY.

29.38
29.24 in.
29.09 in.
28.94 in.
98 cb.
98.5 cb.
99 cb.
99.5 cb.
100 cb.
100.5 cb.
101 cb.
101.5 cb.
102 cb.
102.5 cb.
103 cb.
29.53 in.
29.68 in.
29.83 in.
30.12 in.
30.27 in.
30.42 in.
Barometer falling
Barometer unsteady
Barometer rising
H I G H

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 ≈≈≈.

DAILY WEATHER REPORT. Monday 11th January, 1915.

REPORTS FOR YESTERDAY.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	Trace	36	28	b.bc.c	cpsqd	0.4
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	3	35	27	bc.o	sp.r	0.0
Eng., N.E.	Scarborough	2	36	32	o	o	1.0
Eng., N.E.	Skegness	1	38	30	o	or	1.8
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	6	40	32	o	o.or	2.5
Eng., N.W.	Southport	9	41	32	or	r	0.0
Midlands.	Buxton						
Midlands.	Leamington Spa	5	43	30	cr	cr	0.0
Midlands.	Malvern	4	46	35	c	cr	0.0
Midlands.	Ross-on-Wye	2	47	35	r.oc	drq.r	0.0
Wales.	Rhyl	-	47	34	or	r	0.0
Wales.	Colwyn Bay	-	48	38	bc.o	p	0.0
Wales.	Llandudno	3	49	30	or	or	0.0
Wales.	Aberystwyth	5	46	40	r.o	o.or	0.0
Wales.	Tenby						
Wales.	Swansea	14	47	35	rm	r	0.0
England, E.	Cromer	1	40	43	bc	bc.o.cr	3.2
England, E.	Lowestoft						
England, E.	Felixstowe	1	40	35	bc	or	2.0
England, E.	Walton-on-Naze	1	42	32	b	b.or	3.2
England, E.	Southend-on-Sea	1	43	32	b.bc	bc.or	1.7
England, S.E.	Tunbridge Wells	3	44	31	m.bc.b	c.odr	2.6
England, S.E.	Margate	1	43	36	bc	bc	2.3
England, S.E.	Ramsgate	-	41	32	bc	or	3.8
England, S.E.	Folkestone	3	44	34	bcm.b	bc.or	?
England, S.E.	Hastings	2	45	32	o.b.bc	c.or	3.6
England, S.E.	Bexhill-on-Sea	1	45	32	b	c.or	3.0
England, S.E.	Eastbourne	2	45	35	bm	or	3.0
England, S.E.	Seaford						
England, S.E.	Brighton	4	46	32	bmcls	c.o.or	1.7
England, S.E.	Worthing	6	45	31	bc	r	1.6
England, S.E.	Littlehampton	5	47	?	c.b.bc.b	cr	1.5
England, S.E.	Bognor	3	45	33	b.bc	od	1.2
England, S.E.	Southsea						
England, S.E.	Bournemouth	2	46	35	or	or	0.0
England, S.W.	Weymouth	3	48	38	c.or	p.c	0.0
England, S.W.	Exmouth						
England, S.W.	Torquay	1	49	37	o	d.o	0.0
England, S.W.	Paignton						
England, S.W.	Falmouth	4	49	39	r.or	odq.r	0.0
England, S.W.	Penzance						
England, S.W.	Newquay	4	48	43	m.odr	qpd	0.0
England, S.W.	Ilfracombe	8	49	41	or	r.o	0.0
England, S.W.	Weston-super-Mare	5	46	39	or	r	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	93	80	1.1	48	34	30	6	b.bc	c.o.or	or.bc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	91	82	0.0	49	32	28	7	mr	or.	or.b.bc
Camden Sq. (Brit. Rainfall)	-	81	0.0	47	32	30	8	-	-	*
Hampstead (Reservoir)	*	81	0.5	45	36	27	8	c.or	or.x	bc
Richmond Park	*	*	1.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	76	78	0.1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

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

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	4	49	35	34	b.or	o	rq	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*	47	33	25	bm	b.bc.o	or	*
Teignmouth to 9pm.	1	50	39	34	b.o	o.or	or	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	45	33	24	b.bc	bmsnq	or	*

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

11th-12th Jan., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.2 / 8.2	12.1 / 12.1	4.0 / 4.1
Greenwich	8.4 / 8.3	12.8 / 12.8	4.12 / 4.13
Wick	8.57 / 8.56	12.20 / 12.20	3.43 / 3.44
Valencia	8.47 / 8.47	12.49 / 12.49	4.51 / 4.52

NOTES ON YESTERDAY'S WEATHER.

On a few scattered parts of our south-west coasts the thermometer touched 50°, but at some of our north and north-east stations it did not reach 40°. Rain again fell generally, heavily in the west, and a gale from West or South-West occurred locally on our western coasts.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 12

Tuesday, 12th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	989.1	40	ESE	4	cm	1003.1	+2	37	−3	N	1	-	cm	1	2	40	36	omp	om	bcm	*
	Deerness ...	985.4	39	E	4	cqp	1003.7	*	36	−4	SSW	1	-	bcq	3	8	41	38	r	r.op.c	cc.bc	0.0
	Stornoway ...	987.1	41	N	4	o	1003.4	+4	35	−6	NW	1	-	oq	1	3	43	33	o.dmp	o	bc.bq	0.0
	Castlebay (Barra Isd.)	989.5	44	W	6	op	1005.8	+6	44	+1	WNW	4	-	bc	4	1	46	41	dhp.c	c.op	op.bc	2.3
	Glasgow ...	986.5	42	SW	5	opqq	1007.0	+9	37	−1	SW	1	-	b	*	4	42	35	cp.o	op.aq	op.c.bf	0.4
	Eskdalemuir ...	987.4	38	W	6	bc	1007.7	+11	35	−2	N	2	-	b	*	?	40	34	cq.op.o	f.op.o	cr.c.s	1.4
	Malin Head ...	992.3	43	WNW	8	oqq	1007.9	+4	44	+2	WNW	6	NW	cphq	7	3	44	38	cqp	qpqp	cphr	0.6
	Markree Castle														*		*	*				
	Blacksod Point	1001.3	43	WNW	6	bcp	1012.4	+2	44	+4	WNW	3	NW	om	4	2	50	40	bcp	bcp	bc.bcp	*
	Valencia ...	1007.1	46	WSW	5	c	1015.9	+2	46	+2	W	1	-	o	4	2	47	42	bchq	.bchq	c.o	3.3
	Roche's Point	1007.0	41	WNW	3	b	1016.7	*	42	0	W	2	-	b	3	2	45	39	bcqp	bcqp	b.o	*
	Birr Castle ...	1001.2	41	W	3	bc	1014.0	*	37	−1	W	1	-	c	*	1	42	36	cp.bcp	bc	c	4.4
	Donaghadee ...	992.4	40	WNW	5	cqph	1008.2	+6	42	+4	WNW	6	W	bc	4	1	42	36	bcqp	bcqph	bcpq	*
	Liverpool (Bidston)	994.1	42	WSW	7	o	1007.3	+9	43	+1	W	7	-	oq	6	1	44	40	o.cph	bcpq	oq	1.9
	Holyhead ...	996.8	43	W	8	bcq	1009.4	+6	45	+1	WNW	8	-	bq	7	-	44	41	bc	bcq	bq	1.7
	Pembroke (St. Ann's)	1002.3	44	WNW	5	b	1013.7	+5	45	+1	WNW	5	NW	bq	5	0.2	46	43	cqpq	cq	bq	2.3
	Scilly (St. Mary's)	1006.8	45	WNW	8	cqp	1017.6	+4	47	0	NW	6	NW	cq	7	3	48	41	cqp	cqp	bc.cpq	0.8
	Falmouth ...	1005.2	44	WNW	5	bc	1016.0	+5	44	−1	NW	3	NW	bc	4	4	48	42	or.bcq	bcqp	bcph	2.0
	Jersey (St. Aubin)	1004.4	47	W	6	cq	1014.5	*	47	+1	WNW	4	NW	b	4	4	49	43	cqp	cq.cq	b.oph	0.0
	Portland Bill ...	1000.3	45	WNW	8	bcq	1011.4	+6	45	+1	NW	6	NW	bq	5	3	47	43	bc.c	bcq	bc.bpq	*
	Dungeness ...	996.4	41	W	4	bc	1004.8	+3	39	−4	W	5	W	b	4	-	46	37	bq	b.bc	bc.b	*
	Dover	996.7	40	SW	4	b	1005.0	+4	41	0	WNW	7	NW	bc	3	0.4	45	37	b	b.bc.cp	bc.c.bc	5.4
	Wick	984.4	41	ENE	3	r	1004.7	+6	31	−3	-	0	-	bc	4	2	42	30	omd	ompq	om.bcm	*
	Nairn	983.9	37	W	1	or	1005.2	*	32	−5	-	0	-	bc	1	6	41	31	cq	gd	pq.c	0.5
	Aberdeen ...	982.7	39	WNW	2	o	1005.4	+7	33	−1	NW	2	-	b	2	2	42	33	om.bc	bc.cp	or.b	1.1
	Leith	985.6	41	WSW	3	c	1006.6	+8	36	−3	-	0	-	bm	*	1	43	35	c	c.c	c.or	*
	Tynemouth ...	985.5	40	WNW	4	bcm	1005.7	+7	37	−3	NW	2	N	bc	3	2	42	37	bc	bc	bc	*
	Spurn Head ...	990.9	38	WSW	6	bc	1001.5	+7	38	−2	NNW	7	-	bcpq	6	0.3	41	38	bcq	bcq	bcq	4.0
	Yarmouth ...	991.9	38	W	3	b	999.9	+5	42	+4	WNW	6	NW	oq	3	0.2	44	38	bc.c	c.b	b.o	4.2
	Clacton-on-Sea	994.3	41	W	2	bc	1002.8	+5	41	+1	WNW	4	NW	o	4	-	45	38	b.bc	bcp	b.bc.c	3.8
	Nottingham ...	993.5	42	W	5	c	1005.9	*	43	+1	NNW	3	NW		*	0.3	44	39	o.c.b	bcp	cp	4.2
	Bath	999.4	42	NW	3	c	1010.5	*	41	−2	NW	3	NW	b	*	1	47	40	b.bc.c.o	c.oth.bc	c.bc.bq	1.9
	London (Kew Obsy.)	997.6	40	W	3	b	1007.0	+5	41	−2	WNW	5	N	b	*	0.3	45	38	b.bc.b.bq	bq.cwork	b.bc.b	4.3
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	989.0	27	E	5	s																
	Blaavands Huk	981.7	39	SW	3	r	990.3	+5	39	+5	WNW	2	-	o	2	6	39	27				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	990.0	43	W	6	o	995.0	+3	43	−2	W	6	-	c	4	Trace	45	43				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	995.8	42	WSW	7	c	1004.4	+4	43	−3	W	7	*	o	7	1	48	41				
	La Hève	1000.3	43	WNW	6	c	1010.7	*	45	−1	NW	6	*	c	7	3	46	41				
	Ushant	1011.7	48	NW	6	bc	1017.0	*	50		NW	5	*	bc	5	-	52	45				
	Brest (St. Mathieu)	1010.4	49	WNW	6	o	1018.3	+3	48	−2	NNW	5	*	bc	4	1	55	43				
	Rochefort (Ile d'Aix)	998.6	51	W	7	r	1018.7	+3	48	−2	NW	5	*	bc	*	6	52	46				
	Biarritz	1020.7	54	SW	6	r	1022.1	+3	50		N	3	*	r	5	12	55	50				
	Paris	1021.5	41	SW	3	b	1010.3	+3	39	−6	W	3	-	b	*	2	46	36				
	Belfort	1003.5	39	WSW	4	o	1009.6	*	34		WSW	7	*	s	*	5	39	32				
	Lyons	1010.6	43	S	2	o	1016.4	*	38	+1	WNW	2	*	b	*	12	45	35				
	Nice	1011.1	45	NW	3	c	1004.4	−1	46	+5	NW	6	*	b	4	-	55	37				
	Perpignan ..	1016.3	59	NW	5	bc	1014.1	o	50	−2	NW	6	-	bc	*	-	61	32				
	Sanguinaire ...	1012.7	52	W	5	o	1003.1	*	50	o	W	6	*	o	7	-	57	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1025.7	55	WSW	4	r	1029.2	+2	54	+4	WSW	3	-	f	3	4	56	50				
	Madrid (8 a.m.)	1027.3	46	SW	1	o	1027.8	+1	46	+12	WNW	2	-	b	*	-	48	39				
	Lisbon (9 a.m.)																					
	Gibraltar	1027.7	50	NW	6	b	1027.1	*	50		NW	6	-	b	2	-	60	42				
	Rome														*							
	Azores (Horta, 8 a.m.)	1024.0	*	SSW	4	o																
	Madeira (Funchal)	1028.0	60	E	3	c	1026.6	o	61		E	3	-	o	3	-	63	59				

GALES.

Duration and Extreme Force in British Islands.

*

Eskdalemuir
14th 8pm-10pm WNW 8

Malin Head.
11th 7am-12th 4am NW 9. between 3pm-Mid

Southport.
11th 5pm-12th 4am W 9 gusts 28mps(10)

Holyhead.
11th 1pm-12th 7am WNW 8

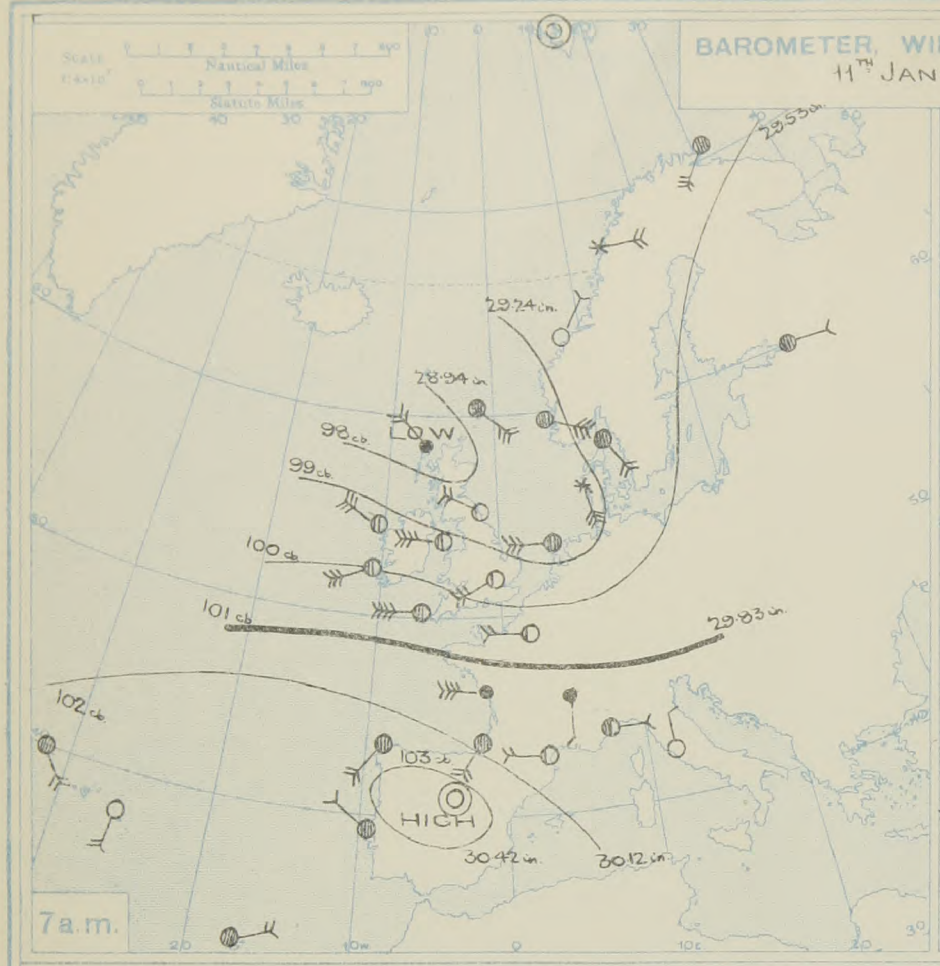
Scilly.
11th 7pm-8pm WNW 8 squalls 9
12th 3am squalls NW 8.

Portland Bill.
11th 6pm-12th 4am WNW 8.

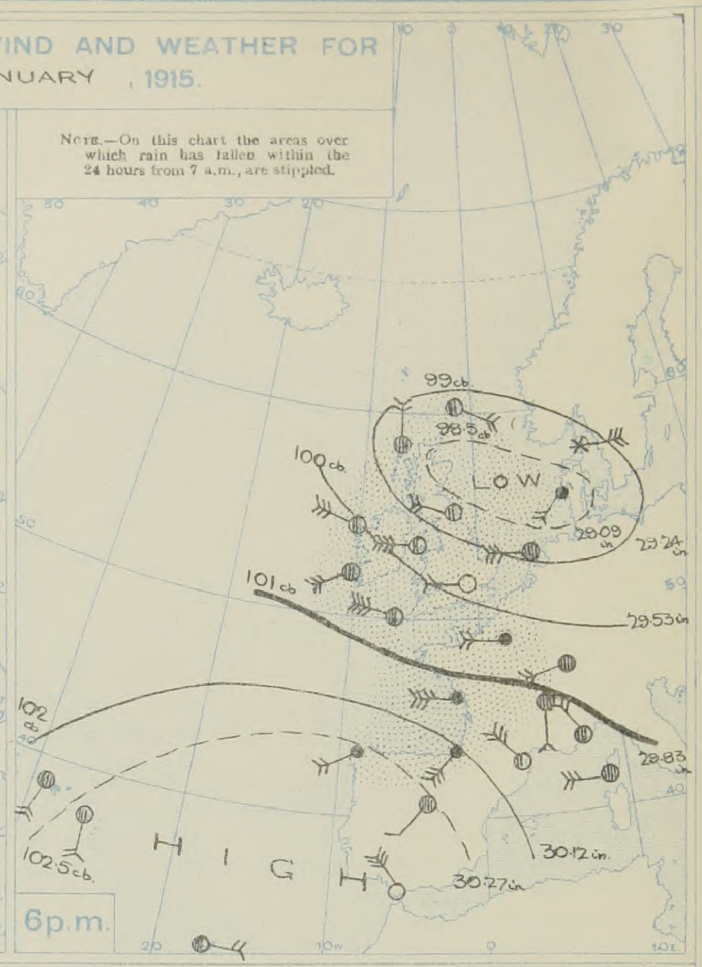
Spurn Head.
12th 2am-7am NW 8 in squalls

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

BAROMETER, WIND AND WEATHER FOR 11TH JANUARY, 1915.

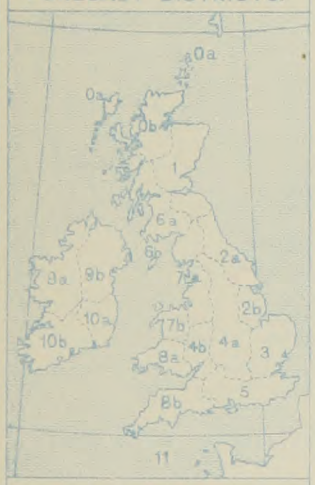


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

0 (a, b)	Light North-Westerly to variable breezes; fair generally, but misty in places; sharp frost inland to-night.
1, 2 (a, b)	Light breezes, chiefly North-Westerly; fair generally, but misty in places; sharp frost inland to-night.
3, 4 (a, b), 5	North-Westerly winds, fresh or strong at first, but moderating later; fair generally, but slight local showers; ground frost to-night.
6 (a, b)	Light North-Westerly to variable breezes; fair generally, but misty in places; sharp frost inland to-night.
7 (a, b), 8 (a, b)	Strong North-Westerly winds, moderating and backing later; fair generally, but slight local showers; ground frost to-night.
9 (a, b), 10 (a, b)	Wind backing to South-West or South; fine at first, cloudy later, probably some rain; moderate temperature.
Western Channel and Bay 11	Fresh North-Westerly to South-Westerly winds and a rough sea; fair generally, but misty in places; moderate temperature.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

W. N. SHAW, Director.

Millibs. Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 12TH JANUARY, 1915.

GENERAL INFERENCE.

The anticyclone to the south-westward of our islands will spread temporarily over England. Fresh disturbances will approach the Irish coast shortly.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

Inches.
31
30
29

100 cb.
99.5 cb.
100.5 cb.
101 cb.
101.5 cb.
102 cb.
102.5 cb.
Barometer
Barometer
Barometer

DAILY WEATHER REPORT. Tuesday 12th January 1915.

REPORTS FOR YESTERDAY.

11th January.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp. °F	Evening Observations: Wind. Direc.	Evening Observations: Wind. Force 0–12.	Evening Observations: Weather.	Observations at 7 A.M., G.M.T.: 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.	Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
Dover		44	SW	6	p												
Petrograd	1006.3	19	SSE	2	s	1001.3	+5	16		E	2	–	o	*	–	19	6
Lisbon	1030.1	52	NW	2	bc	1022.3	-0	48	0	NW	2	–	o	*	–	54	48
Rome	1010.6	41	NE	1	b	1014.7	+3	36	-9	–	0	–	b	*	3	54	46

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	2	40	34	c	odg	0.0
Scotland.	St. Andrews	4	41	33	*	*	1.7
Eng., N.E.	Harrogate	8	41	34	p.bcp	bc.c	4.4
Eng., N.E.	Scarborough	*	43	34	o.c	o.c	1.3
Eng., N.E.	Skegness	7	43	38	bc.o	bc	3.4
Eng., N.W.	Morecambe	8	43	39	o.bc	bc	2.2
Eng., N.W.	Blackpool	9	44	37	c.o	oph	0.8
Eng., N.W.	Southport	7	45	39	chq.o	orhq.c	1.3
Midlands.	Buxton	24	42	34	crs	crs	0.0
Midlands.	Leamington Spa	3	44	33	bc	bc	3.0
Midlands.	Malvern	3	43	39	bc	bc.b	5.0
Midlands.	Ross-on-Wye	5	48	38	bcay	or.bc	2.0
Wales.	Rhyl	4	44	35	b	b	1.7
Wales.	Colwyn Bay	4	43	41	bc	bc	0.4
Wales.	Llandudno	4	50	43	o	o	0.6
Wales.	Aberystwyth	7	45	41	r.o.c	o.or	0.5
Wales.	Tenby	11	45	41	bc.o	bc	3.0
Wales.	Swansea	5	46	42	wp	bc.b	2.0
Eng., E.	Cromer	8	45	39	bc	bc	3.2
Eng., E.	Lowestoft	6	47	40	bc.c	c.bc	5.4
Eng., E.	Felixstowe	7	45	36	bc	bcp	5.6
Eng., E.	Walton-on-Naze	7	44	37	bc.b	b.bc	4.8
Eng., E.	Southend-on-Sea	5	45	39	c.bc.b	b.or.c	3.6
England, S.E.	Tunbridge Wells	5	46	39	m.b.bc.b	c.op.o.b	3.7
England, S.E.	Margate	4	47	37	b	bcp	4.3
England, S.E.	Ramsgate	3	45	39	bc	bc.ou	5.4
England, S.E.	Folkestone	7	47	39	bcm.b	bc.or	4.9
England, S.E.	Hastings	4	47	39	or.b.bc	bc.o.b	4.0
England, S.E.	Bexhill-on-Sea	2	46	35	b	c	4.7
England, S.E.	Eastbourne	6	46	40	b.bc	bc	3.3
England, S.E.	Seaford	4	48	40	b	bc	4.1
England, S.E.	Brighton	-	46	41	bc.c	c.bc	4.1
England, S.E.	Worthing	7	47	40	b.bc	bcr.c	4.8
England, S.E.	Littlehampton	2	48	*	b	bc.gd	5.0
England, S.E.	Bognor	5	46	42	b	p.bc	4.9
England, S.E.	Southsea						
England, S.E.	Bournemouth	4	45	38	bc	or.b	3.3
England, S.W.	Weymouth	2	47	44	bcp	p.bc	2.1
England, S.W.	Exmouth						
England, S.W.	Torquay	4	47	41	cd	p.c.o.bc	2.1
England, S.W.	Paignton	4	48	41	bcp	bcp.c	1.7
England, S.W.	Falmouth	10	48	42	or.bcq	bcpq	2.0
England, S.W.	Penzance	6	49	44	o	bcphr	0.7
England, S.W.	Newquay	7	47	43	opq.bc	bc.o	1.2
England, S.W.	Ilfracombe	3	48	41	c	c.bc	2.0
England, S.W.	Weston-super-Mare	2	46	37	b.bc.b	b	3.8

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.)	76	86	4.2	45	38	31	1	bcq	bcsp	cq
City (Bunhill Row)	*	*	0.5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	77	87	3.1	49	32	31	1	bc.c	c.or	od.r
Camden Sq. (Brit. Rainfall)	76	92	2.7	46	37	31	1	b.bc	c.cp.c	*
Hampstead (Reservoir)	*	82	3.1	44	32	23	1	bc	bcp	bc.cr
Richmond Park	*	*								
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
? 260 Joules	? 8.8 Milliwatts.	20 Milliwatts.

S. Kensington (Roof of M.O.)	77	78	3.6

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	1	44	38	36	r.o	b.c	e.b	3.2
Oxford to 9 p.m.	*	47	38	33	or.o.bc	cup.bc	bc.phc	*
Teignmouth to 9pm.	4	50	42	38	cp	bc.chp	pq	2.6
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	46	40	36	or.o.c	c.bc.c	bc.ong.b	*

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

12th-13th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.2 / 8.1	12.1 / 12.2	4.1 / 4.3
Greenwich	8.3 / 8.3	12.8 / 12.9	4.13 / 4.15
Wick	8.56 / 8.55	12.20 / 12.21	3.44 / 3.46
Valencia	8.47 / 8.46	12.49 / 12.50	4.52 / 4.54

NOTES ON YESTERDAY'S WEATHER.

Rain was again experienced in most districts, a thunderstorm occurred at Bath and lightning was seen at Valencia. A fresh to strong gale from the West or North-West was experienced on several of the more exposed parts of our coasts.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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. Sirgle copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 13.

Wednesday, 13th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010.5	36	E	2	cm	1007.0	−3	42	+5	SE	3	-	om	3	1	42	35	cmd	cmp	ornd	*
	Deerness ...	1009.8	40	WSW	1	cg	1003.4	*	40	+4	SE	4	-	r	4	3	41	36	bc.c	c.cg	or	2.5
	Stornoway ...	1010.0	40	SSW	2	o	997.8	−6	45	+10	SSW	5	-	orq	5	15	45	35	o.bcg	bc.o	orq	0.5
	Castlebay (Barra Isd.)	1010.2	46	S	3	o	1001.5	−1	50	+6	WV	5	-	r	5	11	50	42	bc.o.c	c.o	opr	1.0
	Glasgow ...	1013.7	42	SW	3	o	1006.1	−4	40	+3	-	o	-	dm	*	8	44	36	cf	cdp.cg	orm	0.4
	Eskdalemuir ...	1015.4	36	S	2	o	1008.3	−3	41	+6	SSW	3	-	d	*	3	41	29	b.bc.c.o	b.c.o	or	0.2
	Malin Head ...	1012.3	43	S	3	omp	1005.2	o	47	+3	WSW	5	-	omd	5	4	47	40	bcm	omp	omd	1.5
	Blacksod Point	1009.5	45	SSE	5	or	1011.8	+2	50	+6	SW	5	W	omr	5	5	?50	40	omp	or	or.omr	*
	Valencia ...	1015.2	50	SSW	3	m	1018.9	+1	51	+5	SSW	2	-	o	4	5	52	43	omr	omd	omd	0.0
	Roche's Point	1017.4	46	S	3	mr	1019.0	*	51	+9	W	2	NW	b	3	5	51	41	or	fd	df.bc.b	*
	Birr Castle ...	1014.7	40	SE	1	r	1015.0	*	51	+14	SW	3	-	o	*	10	51	37	o	or	o	0.0
	Donaghadee ...	1014.5	40	SW	3	om	1007.0	−2	50	+8	SW	5	-	ogpm	3	2	51	39	bcg	om	omr.om	*
	Liverpool (Bidston)	1018.0	41	WSW	2	o	1011.8	−2	47	+4	SW	3	-	op	2	6	48	40	opq	p.bc	or	0.5
	Holyhead ...	1016.9	45	W	4	ogm	1012.8	+1	50	+5	WSW	4	-	om	3	5	50	42	c.o bc.o	o.c.bc.c	o.orm	0.2
	Pembroke (St. Ann's)	1019.6	43	SW	3	o	1017.2	o	49	+4	W	4	-	f	5	5	48	43	bq	c	odm	0.0
	Scilly (St. Mary's)	1019.9	46	SSE	3	omd	1021.1	+1	50	+3	W	5	-	f	5	3	50	44	c	c.omd	fe	0.9
	Falmouth ...	1020.9	42	SSW	3	o	1020.3	+1	51	+7	W	3	-	o	4	4	51	41	bcd	od	d.o	0.1
	Jersey (St. Aubin)	1021.6	48	WNW	4	o	1021.2	*	50	+3	SW	4	-	odm	3	1	50	44	b.o	o	op.odm	2.3
	Portland Bill ...	1020.3	46	WNW	3	bc	1018.5	−2	46	+1	WSW	3	-	o	4	2	48	44	c	c.bc	cr.dm	*
	Dungeness ...	1020.0	37	N	2	b	1019.4	−2	45	+6	WSW	5	-	op	4	1	44	37	b.bc	bc.b	bc.op	*
	Dover	?	37	NW	1	bc	1018.9	−2	44	+3	SW	4	SW	r	3	1	44	33	b	bq	bq.c.or	5.0
	Wick	1010.4	40	SW	2	m	1003.0	−6	39	+8	SSE	4	-	r	4	4	41	32	bcm	bc.opq	opm.r	*
	Nairn	1011.7	38	W	1	cu	1002.2	*	38	+6	W	1	-	rg	2	5	41	30	cg.bc	bc	cu	0.0
	Aberdeen ...	1011.7	40	W	3	bcg	1006.4	−4	39	+6	S	4	-	r	2	8	40	33	bq.bc	cg.bc	bcg.or	2.4
	Leith	1013.9	41	WSW	2	bc	1006.0	−4	39	+3	-	o	-	o	*	4	43	34	f.cg	bcg	o	*
	Tynemouth ...	1014.3	40	WNW	3	bm	1009.7	−5	40	+3	S	2	-	orm	3	3	42	36	bcm	bcm	om	*
	Spurn Head ...	1017.0	40	W	1	bc	1013.3	−2	37	−1	SSW	4	-	orm	4	2	?40	33	bcm	bcm	bcm	2.6
	Yarmouth ...	1017.8	38	W	2	b	1016.4	−4	39	−3	SSW	2	-	orm	1	1	43	34	cg.bc	bc.b	c.om	3.0
	Clacton-on-Sea	1018.0	38	WNW	2	b	1019.2	−2	41	o	SSE	2	-	ogdm	2	0.3	43	35	o.bc.b	b	b.ogdm	4.0
	Nottingham ...	1017.9	42	WSW	2	c	1013.6	*	42	−1	SW	3	SW	d	*	0.1	44	39	c.bcm	bm.c	c.o	0.0
	Bath	1020.4	43	NW	2	o	1017.6	*	49	+8	W	3	SW	r	*	4	50	40	b.bc.c.o	o c	or.d	0.1
	London (Kew Obsy.)	1020.2	43	W	1	om	1017.4	−4	44	+3	SW	4	SW	odm	*	1	45	40	b.bc.b	b.o.om	m.bm.odm	0.7
ICELAND, FAEROE, &c.	Spitsbergen ...	1005.0	3	SE	4	b	1011.7	*	12		SE	2	*	o	*	*	7	−2				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	998.0	30	N	5	s	1003.1	+3	30	+11	NE	4	-	o	3	*	30	9				
	Bodö	1006.1	28	E	4	b	1011.9	+5	25	−2	E	2	-	b	2	?	28	16				
	Christiansund	1011.3	28	E	1	b	1015.3	+1	30	+7	SE	2	-	b	3	-	30	28				
	Skudesnaes ..	1011.5	21	-	o	b	1015.1	o	30	+3	SE	4	-	c	2	-	30	16				
	Færder (X'tania Fjord)	1010.6	23	NNE	5	o	1018.3	+5	19	+1	N	2	-	c	1	-	23	16				
	The Scaw (Skagen)	1005.6	26	NE	5	s	1016.6	+7	23	o	NE	2	-	bc	2	3	30	28				
	Blaavands Huk	1008.4	34	NNE	5	o	1017.3	+2	27	−12	E	1	-	b	1	Trace	39	25				
	Haparanda ...	1003.4	−8	NW	4	b	1009.6	+4	−2		WSW	2	-	b	*	-	3	−11				
	Hernösand ...	1010.3	o	NW	2	b	1015.3	+2	o		-	o	-	b	*	-	7	o				
	Stockholm ...	1007.8	23	NE	2	o	1015.0	+3	10		NW	2	-	o	*	-	25	10				
	Wisby	1005.1	34	ENE	2	s	1013.6	+4	30		NE	2	-	o	*	1	34	30				
	Karlstad	1010.3	14	NE	2	s	1018.1	+4	5		N	2	-	b	*	2	16	3				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1014.9	41	NNW	4	b	1018.9	−2	39	−4	SW	2	-	r	2	1	45	39				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1019.1	41	NW	3	b	1019.3	−2	43	o	SSW	5	*	r	4	1	45	39				
	La Hève	1021.3	45	NW	4	o	1022.1	*	42	−3	SSW	5	*	r	5	2	50	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1023.7	50	W	2	o	1025.1	+1	50	+2	WNW	4	*	f	3	5	55	45				
	Rochefort (Ile d'Aix)	1025.6	48	NW	3	o	1025.7	o	48	o	WSW	2	*	f	*	5	50	43				
	Biarritz	1027.9	50	N	8	o	1028.3	o	52	+2	W	2	*	r	5	14	52	48				
	Paris	1020.4	45	NW	3	o	1025.0	+1	39	o	S	2	-	o	*	-	46	39				
	Belfort							*					*		*							
	Lyons ... ..†	1021.9	41	NW	4	o	1028.7	*	37		NNW	2	*	b	*	3	42	35				
	Nice	1011.5	45	NW	3	b	1016.2	+4	45	−1	NE	4	*	b	3	-	52	36				
	Perpignan ..	1023.4	50	NW	4	c	1024.3	o	50	o	NW	3	-	o	*	Trace	57	45				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031.4	36	W	3	o	1032.7	o	52	−2	-	o	-	f	4	3	55	52				
	Madrid (8 a.m.) †	1027.3	57	-	o	c	1031.3	−1	37		-	o	-	o	*	-	57	36				
	Lisbon (9 a.m.)	1031.3	57	NNW	2	o	1028.6	−1	50		N	2	-	b	*	-	59	50				
	Gibraltar							*					*		*							
	Rome														*							
	Azores (Horta, 8 a.m.)												*									
	Madeira (Funchal)	1025.9	63	SE	3	bc	1026.4	o	57	−4	SE	3		b	3	-	68	57				

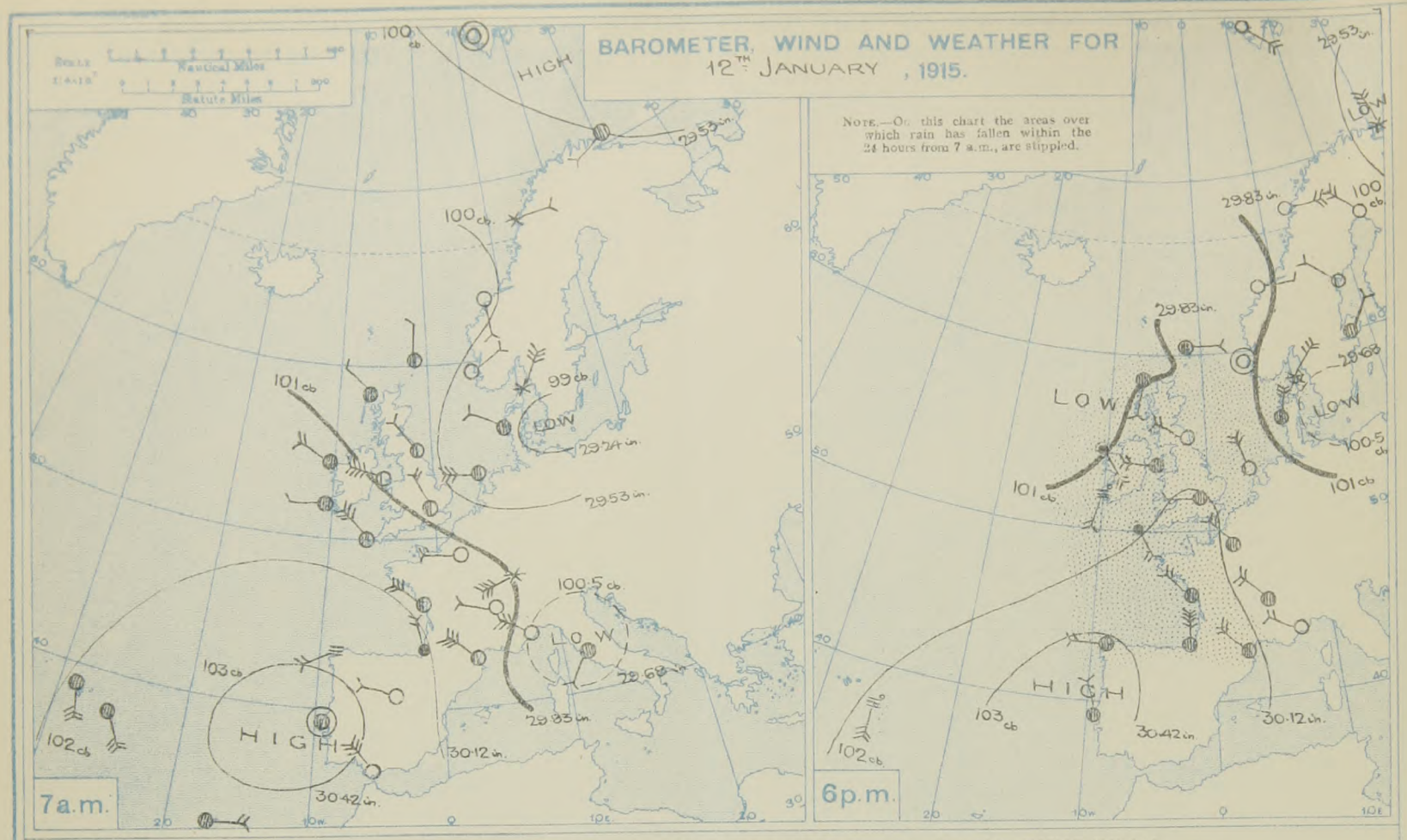
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

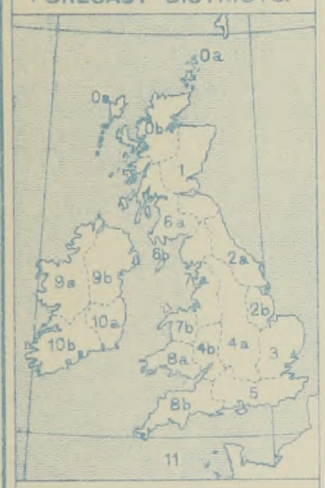
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 12TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued

Western Channel and Bay 11

0 {a b} 1 — Freshening Southerly and South-Easterly winds; changeable, occasional rain; becoming rather milder.

2 {a b} — Moderate Southerly and South-Westerly winds; changeable, occasional rain; becoming rather milder.

3 / 4 {a b} 5 — Freshening South-Westerly winds; weather improving temporarily to-day, more rain to-morrow; continuing mild.

6 {a b} 7 {a b} — Wind backing to the Southward and freshening; changeable, occasional rain, becoming rather milder.

8 {a b} — Westerly to Southerly winds, freshening; fair at first, but foggy or misty on coast, rain later; continuing mild.

9 {a b} 10 {a b} — Southerly winds, increasing in force; mild, changeable, occasional rain, mist on coast.

11 — Westerly to South-Westerly winds, increasing in force, with a rough sea, foggy or misty, occasional rain; continuing mild

Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

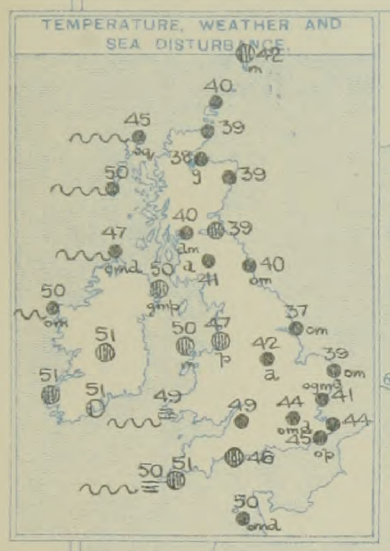
FURTHER OUTLOOK.

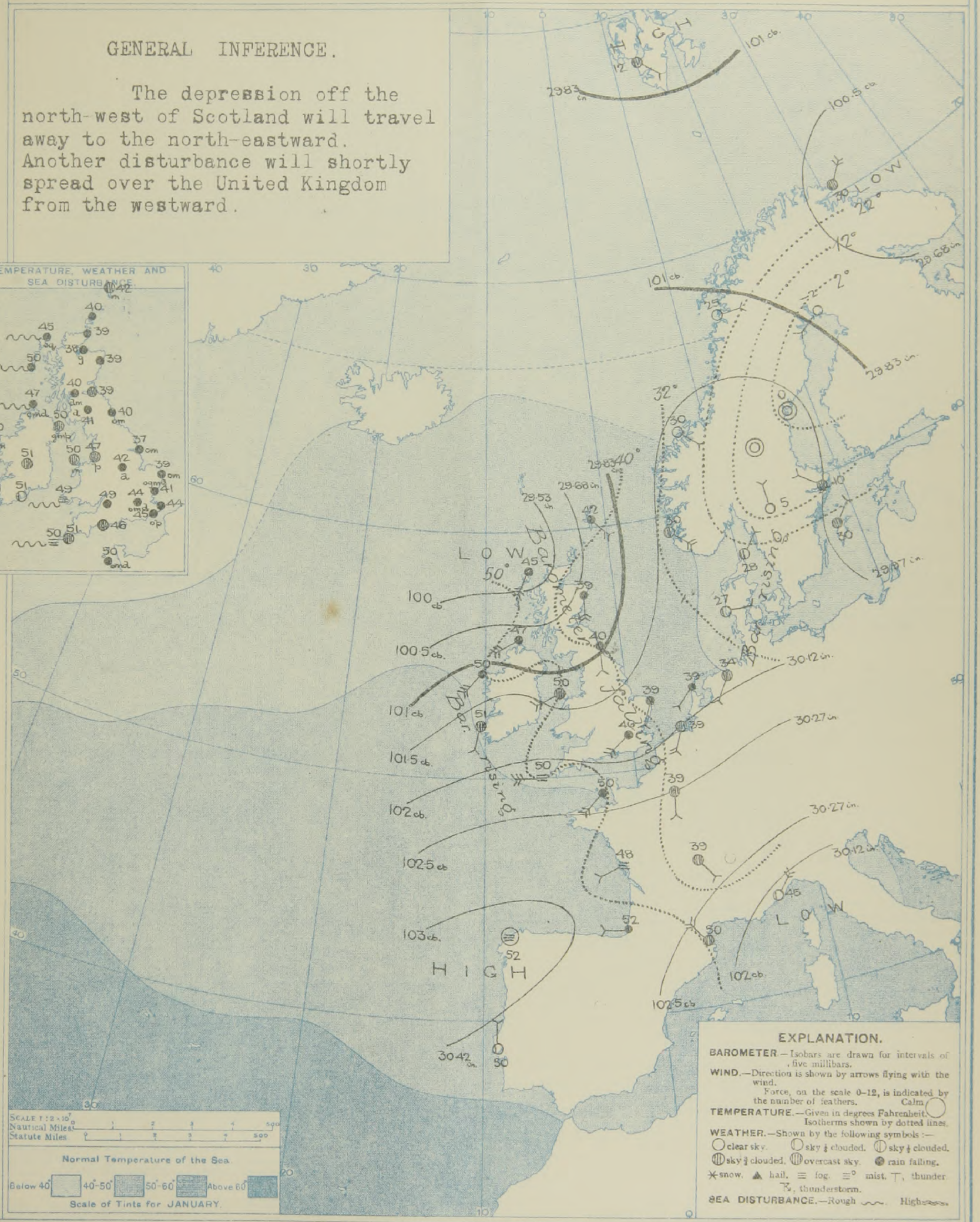
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 13TH JANUARY, 1915.

GENERAL INFERENCE.

The depression off the north-west of Scotland will travel away to the north-eastward. Another disturbance will shortly spread over the United Kingdom from the westward.





DAILY WEATHER REPORT. Wednesday, 13th January 1915.

REPORTS FOR YESTERDAY.

12th January

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
		°F.						°F.	°F.								
Spitsbergen	1001·2	−4	–	0	b	1000·8	−2	−2	−3	–	0	*	b	*	*	1	−8
Vardö	1000·4	−4	WSW	4	o	1000·0	−1	13	+9	WSW	2	–	o	2	*	19	−4
Bodö	993·7	23	E	4	o	995·4	+2	27	+8	E	2	–	S	2	3	27	16
Christiansund	993·9	27	–	0	b	1000·8	+6	23	−4	S	2	–	o	3	–	27	23
Skudesnaes	987·9	34	SSE	4	o	999·1	+5	27	−7	NE	2	–	b	2	–	36	25
Faerder	994·1	21	NE	4	o	1000·2	+5	18	−3	N	6	–	o	2	–	21	18
Skagen	.	.	.	.	.	993·3	+6	28	−6	NE	5	–	S	4	1	34	25
Lisbon	1032·8	52	WNW	2	b	1031·1	o	52	+4	–	0	–	o	*	–	55	50
Rome	1011·3	46	–	0	o	1000·8	+7	54	+18	SW	2	–	o	*	Trace	64	45
Horta	.	.	.	.	.	1020·2	−2	61	o	SSE	5	–	o	4	–	63	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	8	46	36	r.o.cp	cr	0.6
Scotland.	Banff	1	40	29	bc.bc	c.od	2.3
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	0.3	41	36	c.bc.c	bc	2.9
Eng., N.E.	Scarborough	*	44	39	o.c	o.c	3.4
Eng., N.E.	Skegness	–	43	35	d.bc	bc.b	5.0
Eng., N.W.	Morecambe	1	41	38	bc	bc.o	0.2
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	1	44	41	op.c	c.bc	1.0
Midlands.	Buxton	14	40	35	r	r	0.2
Midlands.	Leamington Spa	0.3	44	36	f.cd	c	0.0
Midlands.	Malvern	–	47	38	bc	bc	2.0
Midlands.	Ross-on-Wye	1	46	40	bc	bc	0.5
Wales.	Rhyl	–	46	41	c	c.o	0.7
Wales.	Colwyn Bay	–	45	41	o	o	0.0
Wales.	Llandudno	–	47	43	c	c	0.6
Wales.	Aberystwyth	–	45	42	o.c.o	c.o	0.2
Wales.	Tenby	–	46	41	c	o	0.1
Wales.	Swansea	–	46	40	c	cou	0.8
England, E.	Cromer	0.3	42	37	o.c.bc	bc.b	2.8
England, E.	Lowestoft	1	43	37	op.c.bc	bc.b	2.3
England, E.	Felixstowe	–	45	38	bc	bc	3.5
England, E.	Walton-on-Naze	–	43	36	bc.b	b.bc.b	3.7
England, E.	Southend-on-Sea	–	44	36	bc.c.b	bc	3.7
England, S.E.	Tunbridge Wells	–	44	37	o.c.bc	c.o	1.0
England, S.E.	Margate	–	46	39	bc.b	b.bc.b	3.5
England, S.E.	Ramsgate	1	42	36	bc	bc	4.9
England, S.E.	Folkestone	–	44	39	bc.b	b.bm	3.8
England, S.E.	Hastings	–	45	37	b.bc.o	o.c.b	1.9
England, S.E.	Bexhill-on-Sea	1	46	38	b	c	2.8
England, S.E.	Eastbourne	0.3	45	39	b.bc.o	bc.c	2.5
England, S.E.	Seaford	–	45	40	b	bc	2.2
England, S.E.	Brighton	–	45	40	bl.c	c.o	2.0
England, S.E.	Worthing	–	45	39	b.bc	c.bc	1.8
England, S.E.	Littlehampton	–	47	*	b.bc.c	bc.c.bc	2.6
England, S.E.	Bognor	–	46	39	o.bc.c	o.bc	1.5
England, S.E.	Southsea	–	47	41	b.bc	c	2.5
England, S.E.	Bournemouth	–	47	38	c	cm	1.0
England, S.W.	Weymouth	–	46	40	bc.c	bc	0.7
England, S.W.	Torquay	1	47	41	b	bc.c.o	0.8
England, S.W.	Paignton						
England, S.W.	Falmouth	2	48	42	bc.d	od	0.1
England, S.W.	Penzance	5	48	43	o	orm	0.0
England, S.W.	Newquay	2	48	41	c	odr	0.3
England, S.W.	Ilfracombe	1	47	44	o	o	0.5
England, S.W.	Weston-super-Mare	–	44	41	bc.c	c.o	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	35	28	0.0	45	40	33	2	c	c.bc.c	c.o.or
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	38	97	0.0	49	34	33	2	bc	bc	bc.od.r
Camden Sq. (Brit. Rainfall)	84	98	1.3	46	40	35	2	cr.bc	bc.c	*
Hampstead (Reservoir)	*	96	1.0	44	34	26	2	bc	bc	bc.or
Richmond Park	*	*	0.5							
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square centimetre during Yesterday.

	Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.)	170 Joules	5·8 Milliwatts.	19 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	3	41	37	33	oru	ou	ou	0.0
Manchester ,,				*				
Birmingham ,,	–	44	37	34	*	o	o	0.1
Oxford to 9 p.m.	*							*
Teignmouth to 9 p.m.	1	47	42	38	bep	bc.c	c.o	0.8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0.4	43	38	32	b.c.or	cr.c	cm.om	*

NOTES ON YESTERDAY'S WEATHER.

At our northern and eastern stations the thermometer failed to reach 45°, and at Aberdeen and Banff it did not exceed 40°. Rain again fell generally, rather heavily in the Hebrides and in Central Ireland.

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

13th & 14th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·1 / 8·0	12·2	4·3 / 4·4
Greenwich	8·3 / 8·2	12·9	4·15 / 4·16
Wick	8·55 / 8·54	12·21	3·46 / 3·46
Valencia	8·46 / 8·45	12·50	4·52 / 4·55

Note.—The information relating to weather is indicated by the following letters—b. blue sky: bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 14.

Thursday, 14th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	992·8	47	SW	4	omg	996.1	+1	42	0	NW	6	NW	cmq	5	21	47	39	omr	omr	omr.cq	*
	Deerness ...	994.6	46	W	6	bcq	1002.0	*	43	+3	W	3	-	o	2	11	46	38	r	r.o.c.bc	bc.b.bc.o	0.0
	Stornoway ...	1001·3	45	W	5	op	1001.4	-7	40	-5	SE	3	-	or	3	12	50	42	orq	oqp	b.or	0.0
	Castlebay (Barra Isd.)	1004·9	47	W	4	c	1001.5	-2	49	-1	SW	5	-	op	5	5	50	44	r	r.o.c	o.bc.op	0.0
	Glasgow ...	1006·0	50	W	7	oq	1007.4	-2	49	+3	SW	4	-	o	*	4	50	39	odp.oq	op.oq	oq.cp.o	0.0
	Eskdalemuir ...	1005·7	51	WSW	8	o	1010.0	o	47	+6	SSW	5	-	d	*	2	51	41	gr.odq	odq.o	od	0.1
	Malin Head ...	1007·2	48	WSW	6	omd	1008.2	-2	47	o	SW	6	-	orm	6	3	49	43	omqp	omd	omd	0.0
	Blacksod Point	1012·5	49	SSW	4	omd	1007.2	-7	48	-2	SSW	5	SW	odm	5	2	?	47	omp	omd	omd.of	*
	Valencia ...	1019·6	50	SW	3	m	1014.2	-4	50	-1	S	4	-	om	5	2	51	49	omd	omd	omd	0.0
	Roche's Point	1020·4	50	W	2	o	1017.4	*	49	-2	S	3	-	o	4	0.2	51	49	bc.c	c.o	op.o	*
	Birr Castle ...	1016·2	50	W	4	o	1013.4	*	49	-2	S	3	-	o	*	-	51	48	o	o	o	0.0
	Donaghadee ...	1010·6	52	W	5	omd	1009.9	-2	50	o	SW	5	-	og	4	0.2	53	50	cmg	om	omd.og	*
	Liverpool (Bidston)	1014·1	52	WSW	4	o	1015.3	o	48	+1	SW	3	-	o	3	-	55	47	oq	op	o	0.0
	Holyhead ...	1015·2	50	SW	5	cmgq	1014.9	-2	49	-1	SW	6	-	cmq	5	Trace	54	48	c.o.om	o.cm	opd.cb	0.0
	Pembroke (St. Ann's)	1019·9	49	W	5	o	1019.1	-2	48	-1	WSW	5	-	cpdq	5	1	50	49	f	odm	og	0.0
	Scilly (St. Mary's)	1023·1	49	W	5	bcm	1022.8	-1	50	o	WSW	4	-	oq	6	0.2	51	47	fdq	fd.cm	bcmq.o	0.1
	Falmouth ...	1023·5	50	SSW	3	o	1022.6	-2	48	-3	SW	3	-	o	3	Trace	52	47	o	o	od	0.1
	Jersey (St. Aubin)	1023·2	50	W	4	fd	1024.4	*	49	-1	WSW	4	W	o	3	0.3	53	48	ofe.d	ofe.d	opd.o	0.0
	Portland Bill ...	1020·6	50	W	4	o	1022.0	o	49	+3	WSW	5	SW	c	4	-	51	46	o.c	c.o	o.c	*
	Dungeness ...	1017·1	47	W	3	c	1013.4	o	46	+1	WSW	4	W	bc	5	3	48	44	or	or.bc	bc	*
	Dover	1018·4	52	WNW	3	bc	1020.4	o	47	+3	W	3	W	bc	1	3	53	43	p.r.o.c	c.bc	bc.cp.b	0.5
	Wick	997·7	47	NNW	3	o	1003.3	o	40	+1	-	o	-	o	3	10	43	37	omr	omr.cp	op.bm.o	*
	Nairn	999·6	51	WSW	5	cq	1004.2	*	40	+2	-	o	-	om	1	3	51	37	cr	bcq	qd.c	0.4
	Aberdeen ...	1000·2	44	W	1	b	1005.1	-3	40	+1	-	o	-	om	2	4	49	38	omr.bc	bc.b	b.om	0.0
	Leith	1003·9	53	SW	4	o	1008.1	-2	51	+12	WSW	4	-	od	*	0.2	53	37	ogd	ogd	c	*
	Tynemouth ...	1007·8	52	SW	4	om	1008.7	o	52	+12	SSW	4	-	omq	4	-	54	40	om	em	om	*
	Spurn Head ...	1000·3	42	WNW	6	bc	1013.4	o	40	+3	W	4	-	o	4	1	44	37	om	bcm	oq	0.0
	Yarmouth ...	1014·6	52	W	2	o	1015.5	+1	47	+8	W	4	W	c	2	3	53	39	omr	omr	o.c	0.0
	Clacton-on-Sea	1015·5	48	W	2	c	1017.7	o	43	+2	SW	2	-	bc	1	3	51	40	og.mr	og.m.cq	bc.o.bc	0.0
	Nottingham ...	1015·2	53	W	3	o	1016.0	*	50	+8	W	5	W	o	*	0.1	55	42	bp.c	cp.o	o.c	0.4
	Bath	1019·6	48	W	4	o	1020.4	*	49	o	W	5	W	r	*	2	51	48	r.og.m	odq	odq	0.0
	London (Kew Obsy.)	1017·8	51	W	3	bcm	1019.5	+2	49	+5	WSW	4	-	o	*	0.3	53	44	omd.om	cr.om.om	bcm	bcm.oc	0.3
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1009·9	32	-	0	s	1011.4	o	30	o	ENE	2	-	s	2	*	32	18				
	Bodö	1015·5	25	E	2	b	1012.6	-2	19	-6	E	2	-	b	2	?	28	16				
	Christiansund	1010·0	30	E	3	c	1000.4	-1	32	+2	SE	1	-	c	4	-	32	28				
	Skudesnaes ..	1006·9	32	SSE	9	s	1001.3	o	37	+7	S	8	-	r	5	?	37	27				
	Færder (X'ianiaFjord)	1019·7	19	NNE	2	o	1009.2	-3	28	+9	SE	2	-	s	2	?	28	19				
	The Scaw (Skagen)	1017·3	30	SE	2	o	1005.9	-4	30	+2	SSE	5	-	r	4	1	36	25				
	Blaavands Huk	1014·3	34	SE	3	s	1006.7	+2	41	+14	WNW	2	-	o	2	2	41	23				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1012·3	NS	SSW	3	r	1014.9	u	45	+6	SW	4	-	o	5	7	46	38				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1017·7	48	SW	5	r	1015.5	o	47	+4	WSW	6	*	c	5	3	48	43				
	La Hêve	1022·3	46	WSW	5	f	1024.3	*	45	+3	WSW	4	*	f	5	1	48	39				
	Ushant							*					*									
	Brest (St. Mathieu)	1027·3	50	WNW	3	m	1025.2	-1	50	o	WSW	2	*	o	3	1	52	48				
	Rochefort (Ile d'Aix)	1027·9	48	WNW	4	f	1029.0	o	48	o	WNW	2	*	o	*	1	50	46				
	Biarritz	1030·4	52	WNW	2	f	1029.7	o	50	-2	WNW	1	*	o	3	2	52	50				
	Paris	1021·7	45	SSW	2	r	1024.8	+1	48	+9	W	2	-	o	*	4	52	39				
	Belfort							*					*		*							
	Lyons	1026·9	41	E	1	r	1028.8	*	39	+2	NE	1	*	f	*	3	47	37				
	Nice	1019·1	46	E	1	b	1022.3	+2	42	-3	SW	2	*	c	2	-	57	35				
	Perpignan ..	1023·5	59	NW	4	b	1025.2	o	57	+7	NW	4	-	b	o	-	61	34				
	Sanguinaire ...	1015·9	47	E	2	hr	1017.2	*	46	-9	E	2	*	b	o	-	?	?				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030·9	54	NNE	4	o	1033.3	o	50	-2	SSE	2	-	b	2	?	55	48				
	Madrid (8 a.m.)	1028·3	55	NNE	1	o	1031.7	+1	39	+2	NE	1	-	o	*	-	55	37				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1010·9	*	SSW	4	r							*									
	Madeira (Funchal)	1023·1	63	SE	3	bc	1025.2	o	55	-2	E	2	N	bc	3	-	66	55				

GALES.

Duration and Extreme Force in British Islands.

Glasgow.

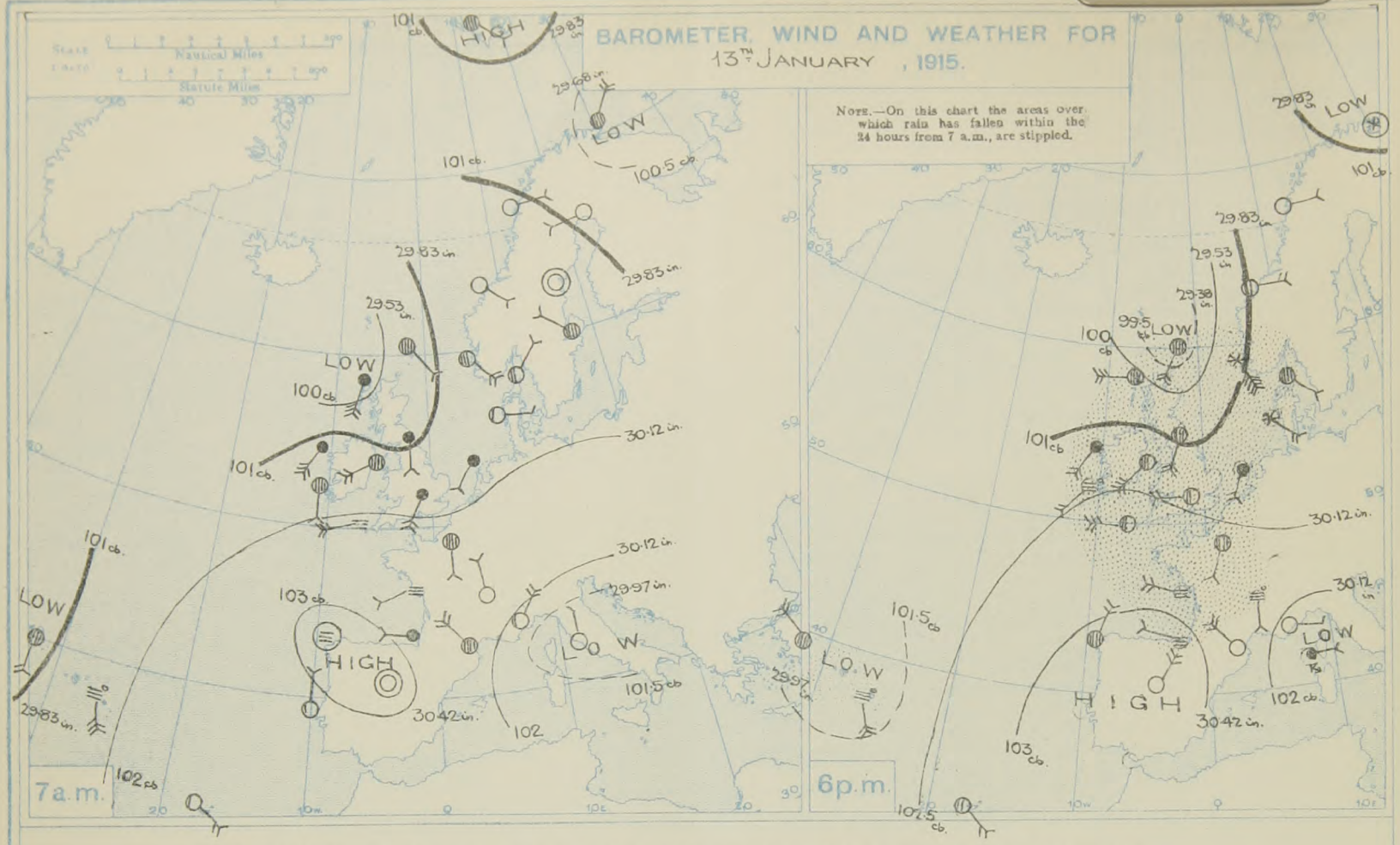
13th Between 1pm & 9pm squalls W.8

Langholm.

13th 6pm to 11pm W.S.W. to W. 8.

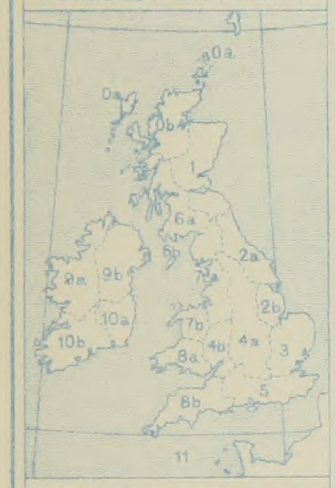
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 13TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings issued.

0 a, b; 1; 2 a, b	Freshening Southerly winds; dull, misty, occasional rain; temperature above the normal.
3; 4 a, b; 5	Freshening South-Westerly winds; mild; cloudy, occasional rain.
6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b	Strong Southerly and South-Westerly winds; dull, misty, occasional rain; temperature above the normal.
Western Channel and Bay 11	Freshening South-Westerly winds and a rough sea; mild, unsettled, some showers, misty in places.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 14TH JANUARY, 1915.

GENERAL INFERENCE.

A new depression which is approaching our north-west coasts will occasion increasing South-Westerly winds over the United Kingdom generally, with occasional rain in all districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

HIGH 22°

29.83 in. 19

29.68 in.

29.83 in.

29.53 in.

32° 32

Bar. falling

LOW 42°

42

37

30

40

41

100 cb.

47 52

Bar.

46 45

29.83 in.

Barometer

49

29.97 in.

100.5 cb.

50

49

30.12 in.

101 cb.

50

49 48

42°

30.27 in.

101.5 cb.

102 cb.

48 43

39

steady

30.27 in.

42

30.12 in.

50

50

Bar.

57

46

LOW

52°

102.5 cb.

102 cb.

HIGH

39

42°

30.42 in.

103 cb.

55

102.5 cb.

Millibars Inches

1035 — 31

1030 — 30

1025 — 29

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 JANUARY.

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.

◍ sky ⅞ clouded. ● overcast sky. ● rain falling.

✳ snow. ▲ hail. ≡ fog. ≡° mist. T, thunder. R, thunderstorm.

SEA DISTURBANCE.—Rough ..... High .....

† The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT. Thursday, 14th January, 1915.

REPORTS FOR YESTERDAY.

13th January.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Sanguinaire	1001·2	50	NW	7	c	1012·4	*	55	+5	E	2	-	bc	6	-	55	43
Rome	1005·2	43	NE	2	b	1011·8	+3	49	-3	N	1	-	b	*	2	65	41

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	14	49	34	r	c.bc.c	0.3
Scotland.	St. Andrews	7	52	34	*	*	0.2
Eng. N.E.	Harrogate	2	50	36	c.o	r	0.0
Eng. N.E.	Scarborough	*	53	37	o	o	0.3
Eng. N.E.	Skegness	2	52	36	o	o	0.0
Eng. N.W.	Morecambe	10	47	40	r	o	0.0
Eng. N.W.	Blackpool	8	50	40	r	o	0.0
Eng. N.W.	Southport	8	50	40	or.o	o.bc	0.0
Midlands.	Buxton	12	51	36	cr	c	0.0
Midlands.	Leamington Spa	1	55	36	c.bc	c.bc	2.6
Midlands.	Malvern	2	55	39	c	c	0.1
Midlands.	Ross-on-Wye						
Wales.	Rhyl	2	57	41	o.c	c.o	0.2
Wales.	Colwyn Bay	1	58	51	c.o	o	0.0
Wales.	Llandudno	3	55	43	op	o	0.0
Wales.	Aberystwyth	6	48	45	r.or	o.or	0.0
Wales.	Tenby	9	50	41	bc.od	o	0.0
Wales.	Swansea	12	50	42	w.d	d.r	0.0
England. E.	Cromer	4	54	34	o.c.bc.r	r.o.c	0.0
England. E.	Lowestoft	3	52	34	or.cp	cp	0.0
England. E.	Felixstowe	4	51	35	or	bc	0.0
England. E.	Walton-on-Naze	2	52	35	or	o.c.bc	0.0
England. E.	Southend-on-Sea	3	51	36	or.c	cr.c.bc	0.0
England. S.E.	Tunbridge Wells	2	54	37	p.om	o.c.bc	0.3
England. S.E.	Margate	2	53	36	opc	ocp	0.0
England. S.E.	Ramsgate	3	52	39	r	o	0.0
England. S.E.	Folkestone	5	52	38	dr.o	o.c	0.0
England. S.E.	Hastings	2	52	39	fm	o.c	0.0
England. S.E.	Bexhill-on-Sea	1	47	40	o	o	0.0
England. S.E.	Eastbourne	2	51	40	orq	oq.bc	0.0
England. S.E.	Seaford	1	48	38	o	o	0.0
England. S.E.	Brighton	2	48	41	omm.o	or.o.c.o	0.0
England. S.E.	Worthing	4	50	39	c	r.c	0.0
England. S.E.	Littlehampton	4	52	*	b.r.c	r.c	0.0
England. S.E.	Bognor	3	53	39	or	o.c	0.0
England. S.E.	Southsea	-	53	42	o	o	0.0
England. S.E.	Bournemouth	1	56	41	o	o.c	0.8
England. S.W.	Weymouth	5	53	44	op.bc	bc.c	0.7
England. S.W.	Torquay	1	58	43	c.o	cv.c.o	2.5
England. S.W.	Paignton						
England. S.W.	Falmouth	2	52	41	o	o	0.1
England. S.W.	Penzance	-	51	43	of	of.m	0.0
England. S.W.	Newquay	1	50	41	opdf	opdf	0.0
England. S.W.	Ilfracombe	4	50	42	fe	df	0.0
England. S.W.	Weston-super-Mare	5	48	41	ofd	d	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.)	92	84	0·3	53	45	40	-	or.o	o	o.bc.b
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	80	0·1	54	41	37	-	oe	oe	b.oe.we
Camden Sq. (Brit. Rainfall)	90	79	0·1	53	45	39	0.3	o.op	bc.o	*
Hampstead (Reservoir)	*	85	0.0	51	39	33	-	c.od	c.o	c
Richmond Park	*	*	0·1							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	87	75	0·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
11·8 Joules	40 Milliwatts.	18 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall. mm §	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	4	54	41	42	odpq	oq	od	*
Darwen to 9 p.m.	15	50	37	36	ar.r	or.u	oru	0.0
Manchester "	11	54	40	*	or.f	fr	f.o	0.0
Birmingham "	2	56	38	37	o	o.c	c.o	1.0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	2	54	41	35	o.or	or.o	om.bom	*

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

14th & 15th Jan., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·0 / 7·59	12·2 / 12·2	4·4 / 4·5
Greenwich	8·2 / 8·1	12·9 / 12·9	4·16 / 4·17
Wick	8·54 / 8·53	12·21 / 12·21	3.48 / 3.50
Valencia	8·45 / 8·42	12·50 / 12·50	4·55 / 4·56

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 50° and 55° over a large portion of the United Kingdom, and reached 58° at Torquay and Colwyn Bay. Rain again fell in many districts and a gale from the Westward was experienced in the west of Scotland.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 15.

Friday, 15th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	988·6	42	SSE	3	omr	980.1	−1	41	−1	SW	6	–	omrq	5	12	46	40	omd	omr	ompq	*
	Deerness ...	989·1	45	SSW	3	or	982.4	*	38	−5	–	0	–	pm	3	4	46	35	op	od.r	op	0.0
	Stornoway ...	989·2	46	WSW	7	orq	984.2	−3	39	−1	WNW	6	–	bcq	5	24	49	37	orq	orq	bcpq	0.0
	Castlebay (Barra Isd.)	993·8	45	WSW	5	bc	989.1	−2	43	−6	W	8	–	bcp	7	3	50	37	op.r	r.bc	h.op.bc	0.0
	Glasgow ...	998·3	48	WSW	5	c	994.2	−3	36	−13	W	4	–	c	*	7	49	36	odqp	odqp	cpq.op	0.0
	Eskdalemuir ...	1000·4	47	SW	6	r	996.4	−4	37	−10	WSW	5	–	or	*	14	47	36	omd	omr	o	0.0
	Malin Head ...	998·3	46	WSW	7	bcmq	994.3	−3	40	−7	W	8	W	cphlq	7	8	49	37	cmqp	cmqp	cplhq	0.0
	Blacksod Point	1003·3	45	WSW	6	omd	1001.0	−3	42	−6	W	8	W	op	7	6	?	40	omd	omd	omp.op	*
	Valencia ...	1012·2	49	SW	5	c	1010.5	−1	50	0	SW	5	–	o	5	4	52	48	omr	cm	cmp	0.1
	Roche's Point	1012·3	48	W	2	b	1011.1	*	48	−1	WSW	5	–	o	5	3	51	46	df	d.r.c.b	b.o	*
	Birr Castle ...	1007·8	47	W	2	o	1005.6	*	46	−3	W	6	–	r	*	3	52	44	od	or.od	or	0.0
	Donaghadee ...	1001·4	48	SW	5	cqmp	998.3	−1	41	−9	W	6	–	dpq	4	1	51	39	ogmp	cmp	bcplq	*
	Liverpool (Bidston)	1006·9	50	SW	5	bc	1003.7	−5	46	−2	WSW	5	SW	oq	4	1	51	45	c.o	opq	oq	0.4
	Holyhead ...	1006·7	50	SW	6	omq	1005.0	−3	47	−2	WSW	5	–	opm	4	1	50	46	c.omq	pdf p.r	bcp.om	0.0
	Pembroke (St. Ann's)	1012·1	49	SW	7	o	1010.5	−2	49	+1	WSW	6	–	ogq	6	1	50	49	cpdq	opq	odmq	0.0
	Scilly (St. Mary's)	1017·2	50	WSW	6	ogd	1016.3	−2	49	−1	WSW	6	–	cq	6	1	51	47	omd	omd	omd.cq	0.0
	Falmouth ...	1017·6	50	SW	6	o	1015.6	−2	47	−1	W	4	–	o	4	4	50	47	oe	oq	d.rq.o	0.0
	Jersey (St. Aubin)	1022·4	50	SW	3	ogc	1018.0	*	49	0	WSW	4	–	o	3	2	51	48	opd	ogc	b.or.o	0.0
	Portland Bill ...	1016·8	48	SW	6	od	1014.0	−2	48	−1	WSW	5	–	o	5	3	50	46	om	omd	od	*
	Dungeness ...	1017·6	48	WSW	5	op	1012.2	−3	46	0	SW	4	–	o	4	2	48	45	bc	bc.od	od.o	*
	Dover	1017·4	47	WSW	5	r	1011.8	−2	46	−1	SW	4	SW	o	3	3	49	45	bc.c	c.od	od	1.6
	Wick	990.9	45	SSW	3	o	984.5	−4	36	−4	SW	4	–	bc	4	3	46	35	opm	opmd	o.bcmp	*
	Nairn	992·0	47	WSW	3	oq	986.7	*	36	−4	W	4	–	oqm	3	5	51	34	md.cq	cqp	crq	0.0
	Aberdeen ...	994·6	48	SSW	4	o	988.9	−3	37	−3	SW	4	–	b	2	0.2	49	36	om.o	od	o.c.b	0.0
	Leith	999.4	41	SW	4	r	993.5	−2	40	−11	W	4	–	b	*	5	52	37	og	o.or	rq.c.bc	*
	Tynemouth ...	1001·7	51	SW	4	cmq	996.8	−4	45	−7	WNW	4	–	bcq	3	–	52	43	om	cm	bcq	*
	Spurn Head ...	1007·7	48	WSW	5	o	1003.9	−3	45	+5	WSW	5	SW	bcq	4	3	50	38	o.bc	bc.oq	bcq	0.1
	Yarmouth ...	1012·8	49	SW	3	c	1007.4	−2	45	−2	WSW	2	–	bc	2	–	51	45	c.bc.c	c	c.bc	1.7
	Clacton-on-Sea	1015·2	45	WSW	3	o	1010.0	−2	46	+3	WSW	3	W	c	2	–	48	43	bc.c.o	o	o.c	1.3
	Nottingham ...	1009·4	50	SW	6	o	1005.6	*	46	−4	SW	4	SW	c	*	–	51	44	om	o	oe.c	0.0
	Bath	1015·3	51	W	5	o	1012.1	*	47	−2	W	5	W	o	*	2	52	46	d.o	od	d.r.o	0.0
	London (Kew Obsy.)	1015·7	50	SW	4	o	1011.5	−3	47	−2	SW	5	–	o	*	Trace	51	46	oe.o.c.o	θ.	o.od.o	0.0
ICELAND, FAEROE, &c.	Spitsbergen ..†	1017.2	−2	S	2	b	1014.9	*	−12		SE	2	*	b	*	*	9	−17				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö ... ..†	1009·7	28	NE	2	d	1003.8	−4	27		WNW	2	–	o	2	*	30	19				
	Bodö ... ..†	1009·3	21	E	4	b	1000.0	−9	23		E	5	–	b	2	–	21	19				
	Christiansund †	997·3	30	E	2	b	3798	−7	36		SE	3	–	r	3	–	36	30				
	Skudesnaes ..†	995·1	37	S	6	r	993.9	−3	43		SSW	6	–	r	4	24	43	36				
	Færder (X'tania Fjord)	1004·8	25	N	2	o	985.9	−11	28	0	NNW	2	–	f	2	?	28	25				
	The Scaw (Skagen)	1004·8	37	N	1	o	988.7	−5	37	+7	WSW	4	–	o	3	8	39	30				
	Blaavands Huk	1006·6	41	SSW	2	r	997.2	−3	43	+2	WSW	5	–	m	4	5	43	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1012·6	46	SW	6	o	1006.1	−2	46	+1	SW	5	–	o	4	–	46	45				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1017·5	47	SW	6	o	1012.0	−2	47	0	WSW	6	*	r	5	4	50	46				
	La Hève	1022.3	46	WSW	4	o	1018.1	*	46	+1	WSW	4	*	f	4	1	48	45				
	Ushant							*					*									
	Brest (St. Mathieu)	1023.1	50	SW	3	m	1020.7	0	50	0	W	2	*	r	3	2	54	48				
	Rochefort (Ile d'Aix)	1028·0	49	WNW	1	o	1025.1	−1	50	+2		4	*	f	*	Trace	52	46				
	Biarritz	1028·3	52	E	2	b	1028.3	0	51	+1	W	3	*	o	2	1	52	46				
	Paris	1024·4	46	SSW	2	o	1019.9	−3	46	−2	SSW	3	–	o	*	–	50	46				
	Belfort							*					*		*							
	Lyons	1028·4	43	WNW	1	f	1027.0	*	37	−2	SW	1	*	b	*	–	46	38				
	Nice	1021·7	?48	NE	1	b	1021.3	0	41	−1	E	2	*	bc	2	–	54	39				
	Perpignan ..	1024·4	57	NW	4	b	1024.0	0	55	−2	WNW	2	–	b	*	–	63	34				
	Sanguinaire ...	1019·9	47	NNE	2	m	1016.2	*	52	+6	E	2	*	bc	2	–	54	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1029.2	54	NW	3	b	1029.9	−1	46	−4	S	3	–	o	4	–	57	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1021·9	*	SSW	3	bc							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Castlebay.
14th Midt-7am 15th W.8.

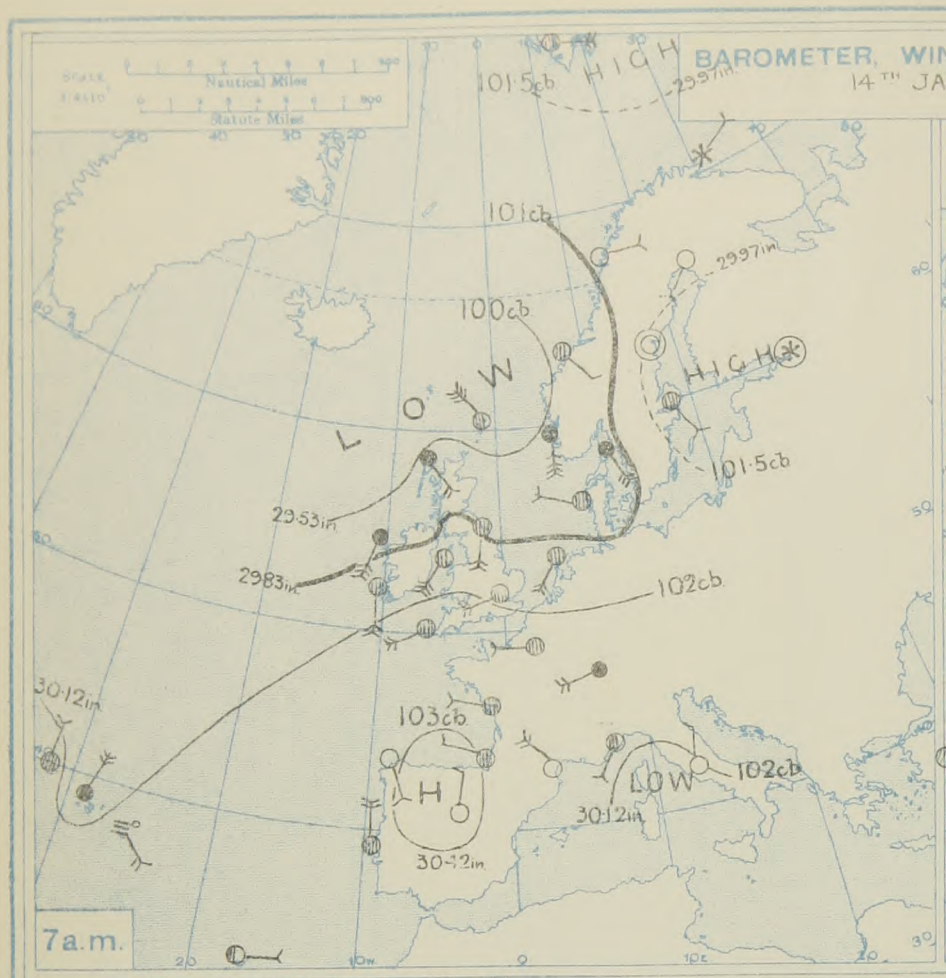
Malin Head
14th Midt-7am 15th W 9 at 3-5am

Blacksod Point
15th 7am W.8

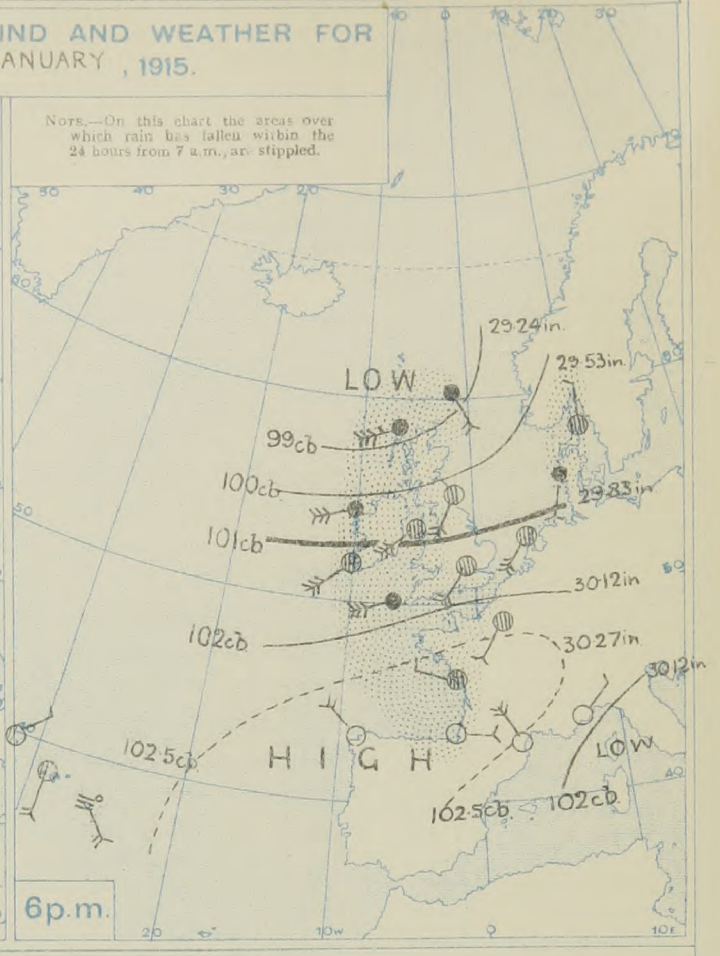
Aberdeen.
15th 5am squall SW 17mps (8).

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

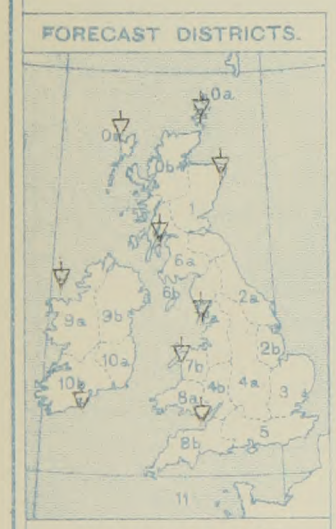
BAROMETER, WIND AND WEATHER FOR 14TH JANUARY, 1915.



NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted at 10.30 a.m. and 2.30 p.m.

Western Channel and Bay

0 {a b} 1 — Strong Westerly to North-Westerly winds, a gale in places; cold; changeable, some showers, hail or sleet in places.

2 {a b} 3 4 {a b} 5 — Strong and gusty South-Westerly to Westerly winds; cloudy, local showers; normal temperature.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} — Strong South-Westerly to Westerly winds, a gale in places; cloudy, squally, some showers; becoming cooler.

9 {a b} — Same as Nos. 0 and 1.

10 {a b} — Same as No. 8.

11 — Fresh or strong Westerly winds and a rough sea; cloudy, squally, local showers; normal temperature.

Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 15TH JANUARY, 1915.

GENERAL INFERENCE.

The depression in the north will move away to the eastward or north-eastward. Small secondaries will pass from west to east across the United Kingdom.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

LOW

HIGH

LOW

2894in.
2909in.
2924in.
2938in.
2953in.
2968in.
29·83in.
29·97in.
30·12in.
30·27in.
30·12in.
98cb
98·5cb
99cb
99·5cb
100cb
100·5cb
101cb
101·5cb
102cb
102·5cb
102cb
32°
40°
42°
43°
42°
52°

Inches.
31
30
29

SCALE 1:2×10⁶
Nautical Miles 0 1 2 3 4 5°
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 JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Friday, 15th January, 1915.

REPORTS FOR YESTERDAY.

14th January

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
		F.						F.	°F.								
Spitsbergen	1014.1	5	SE	4	b	1016.7	*	9	-3	ESE	4	*	o	*	*	12	-6
Haparanda	1012.6	7	W	2	b	1012.7	o	-2	o	SW	2	-	b	*	-	9	-2
Hernösand	1016.7	3	-	o	b	1015.3	-1	o	o	-	o	-	b	*	-	3	-6
Stockholm	1018.9	12	W	2	b	1015.5	-3	19	+9	SSE	2	-	o	*	-	13	10
Wisby	1018.9	30	NE	2	bc	1016.0	-1	25	-1	ESE	2	-	bc	*	-	32	25
Karlstad	1020.3	-2	-	o	b	1012.6	8	10	+5	NE	2	-	o	*	-	12	-2
Petrograd	1016.2	14	NW	1	b	1017.3	o	14	.	-	o	-	s	*	1	25	14
Ushant	1026.1	52	W	4	o	1025.9	*	52	.	W	4	-	o	4	-	54	46
Belfort	1026.0	35	-	o	o	1025.7	*	41	.	WSW	4	-	r	*	2	37	31
Lisbon	1026.9	55	NE	3	b	1027.4	+1	50	o	N	4	-	o	5	-	55	50
Rome	1017.2	52	NE	2	b	1020.0	+1	39	-10	N	1	-	b	*	-	52	39
Horta	*	*	*	*	*	1013.8	+2	55	.	NNE	4	-	r	4	18	61	55

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	2	50	38	r.oq	op	0.0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	49	47	o.c.o	op.or	0.0
Eng. N.E.	Scarborough	*	52	48	o	o	0.0
Eng. N.E.	Skegness	0.3	53	43	bc.c	o	1.2
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	2	50	47	o	o.c.op	0.0
Midlands.	Buxton	5	50	45	o	or	0.1
Midlands.	Leamington Spa	-	51	48	c	c	0.3
Midlands.	Malvern	-	50	46	c	c	0.1
Midlands.	Ross-on-Wye						
Wales.	Rhyl	1	52	48	cr	r.o	0.5
Wales.	Colwyn Bay	-	53	50	c	cp	0.4
Wales.	Llandudno	3	54	49	o	o	0.6
Wales.	Aberystwyth	1	50	45	o.c.o	or.o	0.0
Wales.	Tenby	2	49	46	bc.c.od	d	0.0
Wales.	Swansea	4	49	47	d	d.r	0.0
England. E.	Cromer	-	52	47	bc, c	c.o.c	1.3
England. E.	Lowestoft	-	52	44	c. bc	bc.c.o	2.0
England. E.	Felixstowe	-	51	35	bc	cm	2.6
England. E.	Walton-on-Naze	-	50	43	b.bc	c.o.c	2.6
England. E.	Southend-on-Sea	-	49	42	c	c	0.2
England, S.E.	Tunbridge Wells	-	50	47	o	op.o	0.0
England, S.E.	Margate	-	51	43	bc	c	2.0
England, S.E.	Ramsgate	-	49	42	bc.	o	2.1
England, S.E.	Folkestone	-	48	45	c.bc	bc. c.od	1.1
England, S.E.	Hastings	-	49	46	o	o	0.0
England, S.E.	Bexhill-on-Sea	2	52	39	c	c	0.0
England, S.E.	Eastbourne	-	49	47	o	od	0.0
England, S.E.	Seaford	-	49	46	o	o	0.0
England, S.E.	Brighton	-	48	47	o.c	c.o	0.0
England, S.E.	Worthing	1	48	47	o	o	0.0
England, S.E.	Littlehampton	1	52	*	o	op.o	0.0
England, S.E.	Bognor	1	50	47	o	o	0.0
England, S.E.	Southsea	-	50	48	o	o	0.0
England, S.E.	Bournemouth	1	50	47	o	od	0.0
England, S.W.	Weymouth	-	51	48	c	c.oe	0.0
England, S.W.	Torquay	0.3	50	48	o	d.o	0.0
England, S.W.	Paignton	0.3	51	48	o.ed	od	0.0
England, S.W.	Falmouth	0.3	50	48	oe	oq	0.0
England, S.W.	Penzance	0.3	51	49	o	om	0.0
England, S.W.	Newquay	0.3	50	47	o	o	0.0
England, S.W.	Ilfracombe	1	50	48	ode.o	od	0.0
England, S.W.	Weston-super-Mare	-	50	45	c.b.bc	c.o	0.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	85	84	0.0	51	46	41	-	o	oq	orm.o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	82	0.0	52	46	40	-	o	o.bc	o
Camden Sq. (Brit. Rainfall)	79	80	0.0	51	46	41	-	c.o	o	*
Hampstead (Reservoir)	*	83	0.0	49	41	33	-	o	o	b.c
Richmond Park	*	*								
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

S. Kensington (Roof of M.O.)	77	77	0.0

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
80 Joules	2.7 Milliwatts.	6 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	1	53	49	49	od.rq	oq.c	pq	*
Darwen to 9 p.m.	9	50	46	44	orw	rw.b	wr	0.2
Manchester ,,	4	51	49	*	or	o	or	0.1
Birmingham ,,	-	49	46	45	o	o	o	0.0
Oxford to 9 p.m.	*	50	46	39	c.bm.o	o.c.o	ad.	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	54	47	40	o.b	b.c.o	o	*

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

15th & 16th Jan 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.57 / 7.58	12.2 / 12.3	4.5 / 4.7
Greenwich	8.1 / 8.1	12.9 / 12.10	4.17 / 4.19
Wick	8.53 / 8.52	12.21 / 12.22	3.50 / 3.52
Valencia	8.44 / 8.43	12.50 / 12.51	4.56 / 4.58

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 50° or slightly above it in most parts of the United Kingdom. Rain fell in all districts excepting the east of England, and a gale from the Westward was experienced locally on our extreme northern and north-western coasts.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 16.

Saturday, 16th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	978·7	42	SW	3	cmp	989.6	+9	37	−4	N	8	-	opsq	6	2	44	35	bc	bcp	cq	*
	Deerness ...	977·3	41	SW	3	op	990.5	*	39	+1	NNE	7	-	bc	5	8	44	35	op.cbc	p.bc.c.op	pr.o.bc	0.4
	Stornoway ...	980·5	41	W	6	bcqp	999.2	+13	37	−2	N	7	-	cq	6	3	43	36	cqp	bcqp	bc.cpr	0.0
	Castlebay (Barra Isd.)	984·3	44	W	5	bc	1001.7	+11	40	−3	NW	5	NW	bc	5	3	46	37	bc.op	op.r.bc	o.bc	0.1
	Glasgow ...	988·5	39	SW	4	b	991.3	+10	42	+6	NW	4	-	b	*	1	43	37	c.oqp	c.oqp	b.bcq	0.0
	Eskdalemuir ...	990·5	38	SW	5	o	988.5	+7	40	+3	NW	7	-	bc	*	8	40	34	or.oq	oqp.o	c	1.6
	Malin Head ...	989·0	43	W	5	cqp	998.0	+8	42	+2	NNE	7	N	cpmq	7	5	44	38	oqqp	cqp	cpmq	0.3
	Blacksod Point	991·4	42	W	3	mr	1007.3	+8	42	0	NNW	7	N	cphq	6	30	?	36	omr	omr	ophq	*
	Valencia ...	997·6	48	SSW	6	r	1012.5	+9	45	−5	WNW	6	-	b	6	6	50	43	oq	omr	op.cq	0.0
	Roche's Point	1002·2	49	WSW	5	o	1008.9	*	44	−4	NW	6	N	bq	4	2	50	42	c	sp.o	orq.bp	*
	Birr Castle ...	994·2	45	SW	6	r	1005.3	*	40	−6	W	4	-	o	*	14	46	38	or	orq	orq.o	0.0
	Donaghadee ...	991·7	42	W	4	omr	995.2	+6	43	+2	WNW	6	-	bcpq	4	10	43	38	bcq.mp	omr	or.cpq	*
	Liverpool (Bidston)	997·3	46	SW	5	r	993.3	+5	44	−2	W	7	W	cq	6	11	49	42	cq	orq	orq	0.3
	Holyhead ...	997·1	48	WSW	6	ogmdp	997.7	+6	45	−2	WNW	8	NW	cq	7	7	49	43	cp.o.cm	o.opd.q	bc.or.c	0.7
	Pembroke (St. Ann's)	1003·4	48	WSW	6	o	1002.8	+6	45	−4	WNW	6	NW	cq	6	5	49	45	ogq	cq	oqrm	0.0
	Scilly (St. Mary's)	1009·3	49	WSW	6	cm	1008.2	+3	46	−3	NW	8	NW	cpq	7	2	50	43	cm	cm	cmd.cq	0.0
	Falmouth ...	1009·6	48	SW	4	o	1006.1	+4	46	−1	NW	6	-	b	6	6	50	45	o	o	rq.cpq	0.0
	Jersey (St. Aubin)	1014·0	50	WSW	4	odp	1005.1	*	46	−3	W	5	W	o	4	2	50	45	o	o	op	0.0
	Portland Bill ...	1008·6	48	WSW	5	o	1000.3	+3	46	−2	WNW	7	-	c	6	1	50	45	o.c	c.o	or.c	*
	Dungeness ...	1007·7	48	SW	6	o	995.1	+6	44	−2	WNW	6	-	cq	4	4	48	42	o.c.o	o.c.o	orq.c	*
	Dover	1007·3	46	SW	5	c	995.3	+6	43	−3	NW	5	NW	bc	3	5	48	43	or	c	cor.c	0.0
	Wick	978·3	38	SW	2	bc	990.4	+2	40	+4	N	6	-	oq	4	3	42	35	bcm	bcm	b.ompq	*
	Nairn	981·1	40	W	3	or	993.7	*	39	+3	WNW	7	-	oqu	6	9	41	35	bcqp	qr	p.cmq	1.8
	Aberdeen ...	982·2	42	WSW	4	b	987.7	+13	41	+4	NNW	5	-	r	3	3	43	36	b	b.	b.orq	4.6
	Leith	989·0	41	SW	4	b	989.4	+12	43	+3	WNW	4	W	bc	*	0.4	44	37	bcpq	bq.bcq	b	*
	Tynemouth ...	992·3	42	WSW	4	omqp	984.8	o	42	−3	WNW	3	NW	cm	3	2	45	39	bcq	bcp	cm	*
	Spurn Head ...	996·3	44	W	6	c	985.6	+1	41	−4	WNW	7	-	bcq	6	6	45	39	cq	cq	crq	1.2
	Yarmouth ...	1001·8	48	WSW	3	c	988.0	+5	43	−2	WNW	4	NW	bc	4	6	51	42	bc.c	c	orq.bc	0.0
	Clacton-on-Sea	1004·6	45	WSW	3	o	991.0	+7	44	−2	WNW	4	NW	c	4	3	49	43	c.o	o	od.r.c	0.3
	Nottingham ...	999·7	47	SW	5	c	990.8	*	44	−2	W	6	W	c	*	9	50	42	cp	c.o	c.or	1.1
	Bath	1006·6	47	W	3	r	998.6	*	45	−2	W	4	W	c	*	8	52	43	o.c.bc	c.or	rq.o.c	0.6
	London (Kew Obsy.)	1005·9	49	SW	3	o	995.3	+7	44	−3	WSW	5	-	bc	*	3	50	44	o	o	or.d.oq.bc	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...	1015·1	7	SE	1	c	1013.5	*	10	+22	-	o	*	o	*	*	10	−12				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1004·8	25	WSW	3	o	1004.6	o	23	−4	WSW	1	-	c	2	*	27	23				
	Bodö	995·3	23	SE	6	b	994.4	o	19	−4	E	4	-	c	2	-	23	18				
	Christiansund	975·9	37	-	o	o	979.8	+2	36	o	SE	2	-	o	3	7	37	34				
	Skudesnaes ..	981·1	39	SE	2	o	979.0	o	37	−6	E	2	-	o	3	7	43	34				
	Færder (Xtiania Fjord)	980·4	25	NW	1	o	981.9	o	28	o	NNE	4	-	b	3	-	30	25				
	The Scaw (Skagen)	981·2	37	W	4	c	980.4	−5	37	o	SW	1	-	c	3	2	41	34				
	Blaavands Huk	990·4	41	W	5	r	979.3	−6	39	−4	SW	1	-	r	o	7	43	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1001·3	45	WSW	5	o	981.2	+5	43	−3	WNW	6	-	o	6	14	46	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1008·3	48	WSW	7	o	993.9	+8	45	−2	W	7	*	c	7	8	50	45				
	La Hève	1012·2	45	SW	4	o	1002.6	*	45	−1	NW	6	*	bc	7	-	48	41				
	Ushant							*					*									
	Brest (St. Mathieu)	1015·8	50	W	3	o	1011·0	+1	50	o	WNW	5	*	o	4	-	54	48				
	Rochefort (Ile d'Aix)	1020·8	50	WSW	5	r	1014·1	o	50	o	W	7	*	o	*	7	52	48				
	Biarritz	1024·6	50	W	1	c	1021·3	+2	54	+3	W	4	*	o	4	-	54	46				
	Paris	1015·0	50	SW	2	o	1002.4	+1	46	o	W	5	-	c	*	1	52	46				
	Belfort							*					*		*							
	Lyons	1022·0	45	N	1	o	1012.4	*	51	+14	SSW	2	*	o	*	-	51	37				
	Nice	1018·4	46	E	2	o	1010.6	−4	44	+3	E	1	*	c	2	-	54	41				
	Perpignan ..	1023·3	52	NW	2	b	1018·0	−3	45	−10	SW	1	-	o	*	-	59	39				
	Sanguinaire ...	1019·7	46	E	2	m	1012·7	*	50	−2	E	2	*	c	3	-	54	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1025·6	54	SSE	4	o	1025.5	−1	54	+8	WSW	6	-	c	4	2	55	46				
	Madrid (8 a.m.)	?	52	-	c	b	1026·7	+1	39		E	1	-	f	*	-	54	36				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1022·1	*	S	4	b							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Lerwick
16th 7am. N.8.

Castlebay
15th 7am–4pm. W.8

Malin Head
15th 7am–3pm. WSW 8.

Blacksod Point
15th 7am–8am W 8.

Holyhead.
15th 11am. W.8.

Pembroke.
15th 7pm–16th 4am WSW 9 at 10pm

Scilly
15th 11pm–16th 7am WNW 9 at 11pm

Falmouth
15th 9pm–16th 1am gale

Portland Bill
15th 10pm–16th 6am WSW 8

Dungeness
15th Midt–16th 6am WSW 9

Wick
16th 4am–7am N 8 in squalls

Spurn Head
15th 1pm WNW 9 gust 27mps (10)

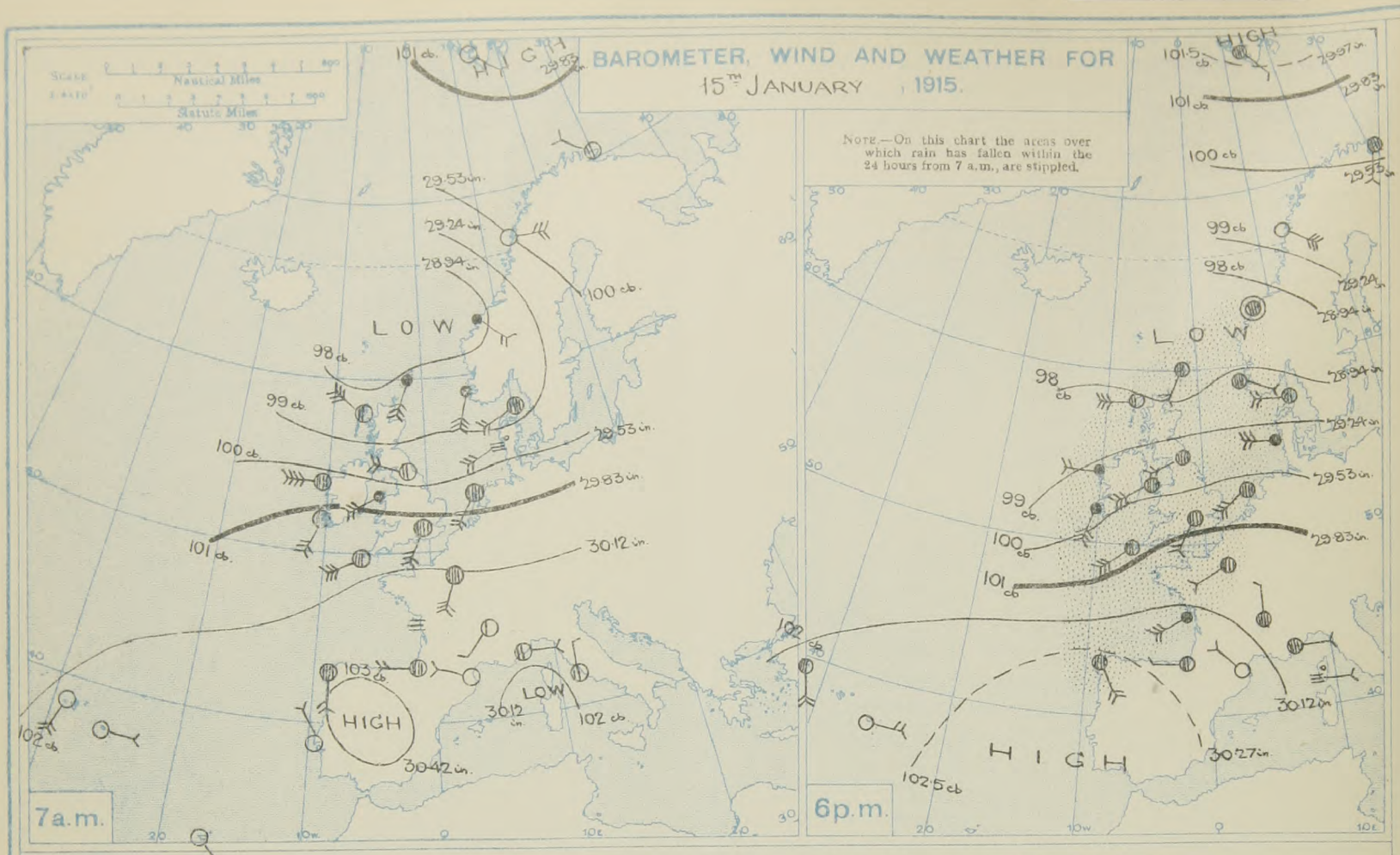
Nottingham
15th 2pm W.8

Bath
15th Midt W 10 gust 31mps (11)

Kew Obsy.
16th 12.40am–4.40am WNW 10 at 2.50
3. Kensington squall W 17mps 24c

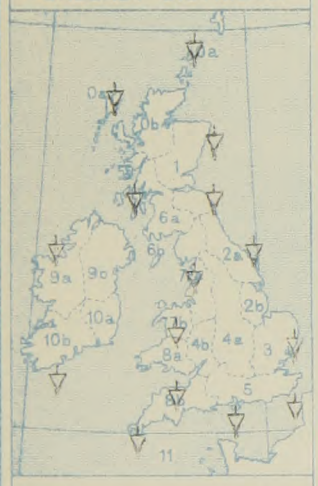
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 15TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



0 a, 0 b, 1, 2 a, 2 b	Strong Northerly and North-Westerly winds, moderating later; fair generally, but local showers of hail or sleet; temperature below the normal.
3, 4 a, 4 b, 5	Strong North-Westerly winds, moderating later; fine at first, some showers later; becoming temporarily colder.
6 a, 6 b, 7 a, 7 b	Same as Nos. 0 and 1.
8 a, 8 b, 9 a, 9 b, 10 a, 10 b	Strong North-Westerly winds, moderating later; fair generally, but slight showers locally; normal temperature.
Western Channel and Bay 11	Strong North-Westerly to Westerly winds and a rough sea; fair generally, but slight showers locally; normal temperature.

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted at 7.0 p.m.

FURTHER OUTLOOK.

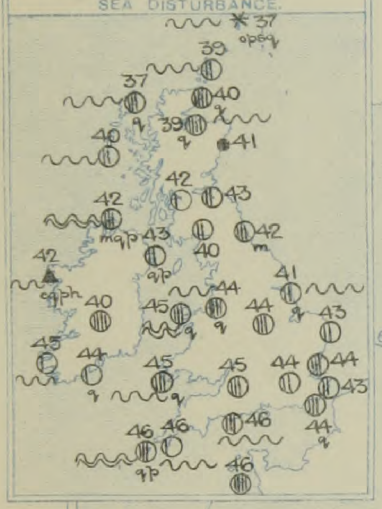
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 16TH JANUARY, 1915.

GENERAL INFERENCE.

The depression over the North Sea will move away to the eastward or south-eastward. Fresh disturbances will probably appear shortly off our western coasts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH

LOW

Depression

Barometer falling

Pressure falling

HIGH

Inches.
31
30
29

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 JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Saturday, 16th January, 1915.

REPORTS FOR YESTERDAY.

16th January.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
		°F.						°F.	°F.								
Ushant	1022.6	52	SW	5	f	1020.6	*	52	0	WNW	4	–	o	4	–	54	48
Lisbon	1028.2	59	N	2	b	1028.2	−1	48	−2	NNW	2	–	b	*	–	61	48
Rome	1021.2	45	–	o	b	1021.2	o	36	−3	N	1	–	bc	*	–	50	36
Horta	.	.	.	.	.	1022.6	−1	60	+5	SSW	4	*	b	3	1	63	57
Funchal	1024.4	63	SE	3	c	1025.3	+2	55		SE	3	–	b	3	–	68	55

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	Trace	43	37	b.bc	c.bcpq	3.6
Scotland.	St. Andrews	3	43	36	*	*	4.6
Eng., N.E.	Harrogate	10	43	38	c.bc.c.o	r	0.6
Eng., N.E.	Scarborough	*	50	40	o	o	2.5
Eng., N.E.	Skegness	3	48	43	cr	gq.c	0.6
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	10	47	40	or	ch	0.1
Eng., N.W.	Southport	2	46	44	or.c.o	or	0.3
Midlands.	Buxton	8	46	40	cr	cr	0.3
Midlands.	Leamington Spa	–	51	45	c.bc	c.bc	1.3
Midlands.	Malvern	–	50	45	c	c	1.3
Midlands.	Ross-on-Wye						
Wales.	Rhyl	2	49	44			1.3
Wales.	Colwyn Bay	6	48	44	bqp	qp	0.8
Wales.	Llandudno	–	51	46	c	caq	0.8
Wales.	Aberystwyth	2	49	45	o.c	or	0.0
Wales.	Tenby	2	50	45	bc.o	bc.od	0.0
Wales.	Swansea	6	50	46	ud	ch	0.0
England, E.	Cromer	1	54	44	o.cp	o.c.o.c	1.0
England, E.	Lowestoft	–	50	45	o.c	c.bc.c.o	0.9
England, E.	Felixstowe	–	50	44	cm	cm	0.8
England, E.	Walton-on-Naze	–	49	44	cq	bc.c.o.c	0.2
England, E.	Southend-on-Sea	–	49	44	c.bc	bc.c.o	0.5
England, S.E.	Tunbridge Wells	1	49	45	o.c	o	0.0
England, S.E.	Margate	–	51	46	o	o	0.0
England, S.E.	Ramsgate	–	48	44	c	c	0.0
England, S.E.	Folkestone	2	48	45	om.bc	c.o	1.1
England, S.E.	Hastings	1	50	45	od.c	o	0.4
England, S.E.	Bexhill-on-Sea	–	45	39	o	o	0.0
England, S.E.	Eastbourne	1	49	47	oq	oq	0.0
England, S.E.	Seaford	1	48	46	r.o.c	c	0.3
England, S.E.	Brighton	1	48	46	o.c.o	o.c.o	0.1
England, S.E.	Worthing	–	49	46	c	c.o	0.0
England, S.E.	Littlehampton	1	49	*	o	o	0.0
England, S.E.	Bognor	1	50	47	o	o	0.1
England, S.E.	Southsea	–	50	45	o.		
England, S.E.	Bournemouth	–	50	45	o.c	o.bc	0.5
England, S.W.	Weymouth	–	51	46	c	c	0.1
England, S.W.	Torquay	2	51	47	c	p.o.c.o	0.0
England, S.W.	Paignton	3	51	46	op.o	o	0.0
England, S.W.	Falmouth	4	50	47	o	o	0.0
England, S.W.	Penzance	2	50	47	o	o	0.0
England, S.W.	Newquay	1	50	47	om	omp.d	0.0
England, S.W.	Ilfracombe	3	50	47	o	c.or	0.0
England, S.W.	Weston-super-Mare	1	49	45	c	bc.ow	0.2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	78	80	0.1	51	43	38	3	c.o	o.c.or	or.o
City (Bunhill Row)	*	*	0.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	75	0.0	51	48	38	3	bc	w.bc	bc.w
Camden Sq. (Brit. Rainfall)	74	78	0.3	51	43	38	2	o.c	c.o	*
Hampstead (Reservoir)	*	78	0.3	49	38	31	2	c.	c	c.or.bc
Richmond Park	*	*	0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	71	0.2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
210 Joules	7.2 Milliwatts.	24 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	4	49	44	44	q.o.cq	coq	ogrq	*
Darwen to 9 p.m.	16	48	36	39	opw	ow.rh	orh	0.0
Manchester ,,	9	50	44	*	op	o.c.or	or	0.2
Birmingham ,,	1	49	43	41	o	o	c.o.r	0.3
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	51	47	42	o	o	cbc.o	*

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

Thurs. 17th Jan. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.58 / 7.57	12.3	4.7 / 4.3
Greenwich	8.1 / 8.0	12.10	4.19 / 4.21
Wick	8.52 / 8.50	12.22	3.52 / 3.54
Valencia	8.43 / 8.42	12.51	4.58 / 5.0

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 50° or a trifle above it in many parts of England and Ireland. Rain again fell generally, heavily in the west, and a strong to a whole gale from the Westward was experienced over England during the night.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 17

Sunday, 17th January 1915

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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).	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1000·8	35	N	6	cq	1010·6	+6	36	-1	N	8	–	cq	7	6	39	32	cq.sp	cq.rp	cqh.p	*
	Deerness ...	1003·4	38	NNW	6	b	1012·8	*	38	-1	NNW	6	–	bcph	5	1	42	35	bc.cph	ph.c.b.	b.bcph.	1·0
	Stornoway ...	1011·8	37	N	6	cqph	1022·0	+5	35	-2	N	6	N	bcq	5	5	39	35	cqph	cqph	bcphq	0·7
	Castlebay (Barra Isd.)	1013·8	41	NNW	5	b	1023·5	+5	38	-2	NNW	3	–	bc	3	3	42	35	bchp b	bc.b	bchp	0·8
	Glasgow ...	1010·0	36	W	3	cq	1018·6	+5	33	-9	WNW	3	–	b	*	–	42	31	bc.c	c.bc.c	bxc	2·9
	Eskdalemuir ...	1007·1	35	NW	6	b	1016·8	+3	33	-7	NW	5	–	b	*	–	40	30	c.bc	bc	bq	4·9
	Malin Head ...	1012·8	41	NNW	7	cmqp	1021·7	+2	40	-2	NNW	8	N	cmq	8	2	42	38	bcqph	cmqp	cmqp.rh	2·2
	Blacksod Point	1020·4	41	NNW	5	bcp	1027·5	+5	38	-4	NNW	6	N	bcqph	6	5	45	37	ophp	bc	bcp	*
	Valencia ...	1022·7	45	NW	5	c	1028·8	+3	43	-2	NNW	4	–	c	4	4	49	40	bchp	cqp	bcqb	3·7
	Roche's Point	1020·3	43	NNW	4	b	1026·9	*	38	-6	NNW	3	–	b	2	0·2	46	37	b	b	b	*
	Birr Castle ...	1018·4	37	NW	2	c	1026·2	*	33	-7	NW	2	–	b	*	1	43	33	bc	bcp	cqp.bx	5·6
	Donaghadee ...	1011·0	40	NNW	6	bcqmp	1019·1	+3	40	-3	NNW	7	NW	bcq	5	1	43	37	bcqq	bcqmp	bcqph	*
	Liverpool (Bidston)	1009·5	41	WNW	5	b	1018·0	+3	39	-5	NW	4	–	b	4	–	45	37	oq	cq	bc	0·1
	Holyhead ...	1011·9	43	NW	8	bcq	1019·9	+4	41	-4	NNW	7	N	cq	7	–	45	40	c.bcq	c.bcp	b.bc.b	3·6
	Pembroke (St. Ann's)	1005·9	42	NW	5	bc	1022·1	+3	40	-5	NNW	4	N	bcq	4	2	46	40	cq	cq	bcq	0·0
	Scilly (St. Mary's)	1018·6	46	NW	7	cq	1022·9	+1	42	-4	NW	6	NW	cqp	7	3	48	40	bcm	bcm	bcw.cq	4·9
	Falmouth ...	1017·0	44	NW	7	bc	1022·3	+2	41	-5	NW	4	–	b	3	–	47	41	bcq	bcq	cq.bc	5·0
	Jersey (St. Aubin)	1012·5	46	W	6	bq	1019·4	*	43	-3	WSW	4	–	ogph	3	1	54	42	bcj	cq.b.	b.ogph	5·2
	Portland Bill ...	1011·5	45	NW	6	b	1017·9	+3	39	-7	NW	5	NW	b	4	–	47	38	bc	bcp	bc.b.	*
	Dungeness ...	1004·0	43	WNW	5	c	1013·6	+3	34	-10	NW	3	NW	bx	3	–	48	33	bcq	bcq	bc.bcx	*
	Dover	1004·3	42	WNW	4	c	1014·2	+5	34	-9	NW	4	NW	b	3	0·3	45	33	bc.c	cp.bc	cp.c.bc	2·1
	Wick	1004·7	38	NNW	6	o	1014·4	+4	37	-3	N	6	–	cq	5	2	40	34	omqp	omqph	o.cqph.	*
	Nairn	1008·0	36	NNW	3	bc	1017·2	*	34	-5	N	6	–	cq	5	2	39	33	bcq.sp	bcq	csqp	0·7
	Aberdeen ...	1008·1	36	NW	5	cqp	1012·7	+4	35	-6	NW	6	–	bcq	4	6	40	34	cqp	cqrsp	crqsp	0·1
	Leith	1008·7	39	NW	3	b	1016·4	+4	36	-7	W	2	–	b	*	–	43	33	bc	bc.b.	bc.c	*
	Tynemouth ...	1004·1	38	N	4	bc	1013·0	+3.	35	-7	NW	3	–	b	4	1	43	34	bc	bc	b	*
	Spurn Head ...	1002·4	40	NNW	7	bc	1012·9	+4	36	-5	NW	7	NW	bcq	7	3	48	33	bcq.or	bcq	bcq	0·0
	Yarmouth ...	1001·6	41	NNW	6	bq	1011·3	+4	35	-8	NW	4	NW	bcqp	2	6	45	33	bc.oq	orq.bq	bcqs	0·0
	Clacton-on-Sea	1003·2	42	NW	4	c	1012·4	+4	35	-9	NW	3	–	bc	2	–	46	34	c	c	c.bc	0·5
	Nottingham ...	1006·5	40	WNW	4	b	1015·1	*	35	-9	NW	3	–	b	*	–	46	34	c.om	o.c.b	b	0·8
	Bath	1010·7	42	W	2	c	1018·9	*	36	-9	NW	1	N	bc	*	–	48	35	o.c.bc	bc.c	b.bc.c.o	3·2
	London (Kew Obsr	1007·1	43	NW	4	o	1016·4	+4	35	-9	NW	2	–	b	*	0·1	47	35	bc.c	c.o	o.bc.b	2·2
ICELAND, FAEROE, &c.	Spitsbergen ...	1010·9	19	SE	7	s	1010·7	*	10	0	N	8	*	s	*	*	19	10				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1005·5	23	S	1	o	1007·8	0	27	+4	ENE	3	–	c	2	*	27	19				
	Bodö	999·1	19	E	4	c	1005·2	+4	18	-1	E	2	–	b	1	–	21	16				
	Christiansund	991·3	27	NE	6	c	1005·9	+7	27	-9	E	1	–	c	4	–	36	23				
	Skudesnaes ..	997·9	28	NNW	6	c	995·0	+6	34	-3	NNW	4	–	c	2	?	39	28				
	Færder (X'ania Fjord)	989·0	23	E	4	b	997·7	+6	21	-7	NNE	6	–	s	2	?	28	21				
	The Scaw (Skagen)	985·3	30	NE	3	o	995·1	+3	27	-10	NE	3	–	o	2	–	37	25				
	Blaavands Huk	986·7	37	N	1	b	997·9	+3	37	-2	NW	3	–	b	5	2	43	30				
	Haparanda ...	996·8	12	NE	6	o	999·5	+3	9	-1	N	2	–	b	*	–	14	5				
	Hernösand ...	990·3	18	N	4	o	997·6	+4	12	-4	NE	4	–	b	*	5	23	12				
	Stockholm ...	982·3	28	NNW	2	o	990·6	+4	21	+7	NW	4	–	o	*	–	28	21				
	Wisby	981·9	30	NW	4	o	1009·5	+7	32	-4	NNE	6	–	o	*	–	36	30				
	Karlstad	987·0	19	–	0	o	997·9	+11	16	-9	W	2	–	o	*	–	25	14				
	Petrograd (5 a.m. G.M.T.)	984·2	27	SE	3	s	986·1	+1	32		SE	2	–	s	*	–	34	25				
FRANCE, &c.	The Helder ...	993·3	43	NW	7	c	1005·0	+1	41	-2	WNW	4	–	c	6	4	46	39				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1004·0	45	WNW	5	o	1012·8	+5	37	-8	NNW	6	*	bc	5	Trace	48	37				
	La Hève	1010·9	45	NW	6	o	1016·6	*	41	-4	NNW	5	*	o	6	–	48	39				
	Ushant	1019·5	50	NNW	7	bc	1022·3	*	46		NNW	6	*	b	7	–	52	41				
	Brest (St. Mathieu)	1018·3	48	NW	6	c	1023·3	+2	43	-7	N	5	*	c	4	1	50	39				
	Rochefort (Ile d'Aix)	1017·2	48	WNW	5	c	1021·5	+1	45	-5	NNW	5	*	b	*	–	52	45				
	Biarritz	1021·1	51	WNW	3	b	1022·3	0	50	-4	N	3	*	c	4	5	54	46				
	Paris	1008·0	45	W	4	bc	1014·9	+3	36	-10	W	2	–	b	*	3	50	34				
	Belfort	1007·7	37	WSW	6	o	1012·0	*	32		W	4	*	s	*	6	46	32				
	Lyons	1013·6	46	SW	2	c	1018·4	*	38	-13	N	1	*	bc	*	1	55	36				
	Nice	1002·4	53	E	2	b	1006·6	+4	45	+1	NE	5	*	b	4	–	61	41				
	Perpignan ..	1015·4	56	NW	4	b	1019·5	+3	43	-2	NW	3	NW	b	*	Trace	64	43				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026·4	50	NNE	3	o	1028·7	+2	46	-8	ENE	2	–	c	4	1	54	45				
	Madrid (8 a.m.)	1023·5	41	–	0	f	1024·0	+2	39	0	N	2	–	c	*	–	43	36				
	Lisbon (9 a.m.)	1023·4	54	NNE	3	bc	1021·9	-2	52	0	N	3	–	b	*	–	57	?41				
	Gibraltar							*					*									
	Rome	1008·8	55	SW	2	o	1007·1	*	52		SW	2	–	c	*	–	55	52				
	Azores (Horta, 8 a.m.)		*				1018·7	+1	62	+2	ESE	5	*	bc	4	–	63	59				
	Madeira (Funchal)	1021·2	61	E	2	c	1022·0	0	55	-2	E	2	NE	b	2	–	64	55				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
16th 9p.m – 17th 7a.m N 8.

Stornoway
16th Night Squalls N 8

Malin Head
17th 7a.m NNW 8.

Holyhead
16th 1p.m – 9p.m NW 8.

Scilly
16th 7a.m – 3p.m NW 8.

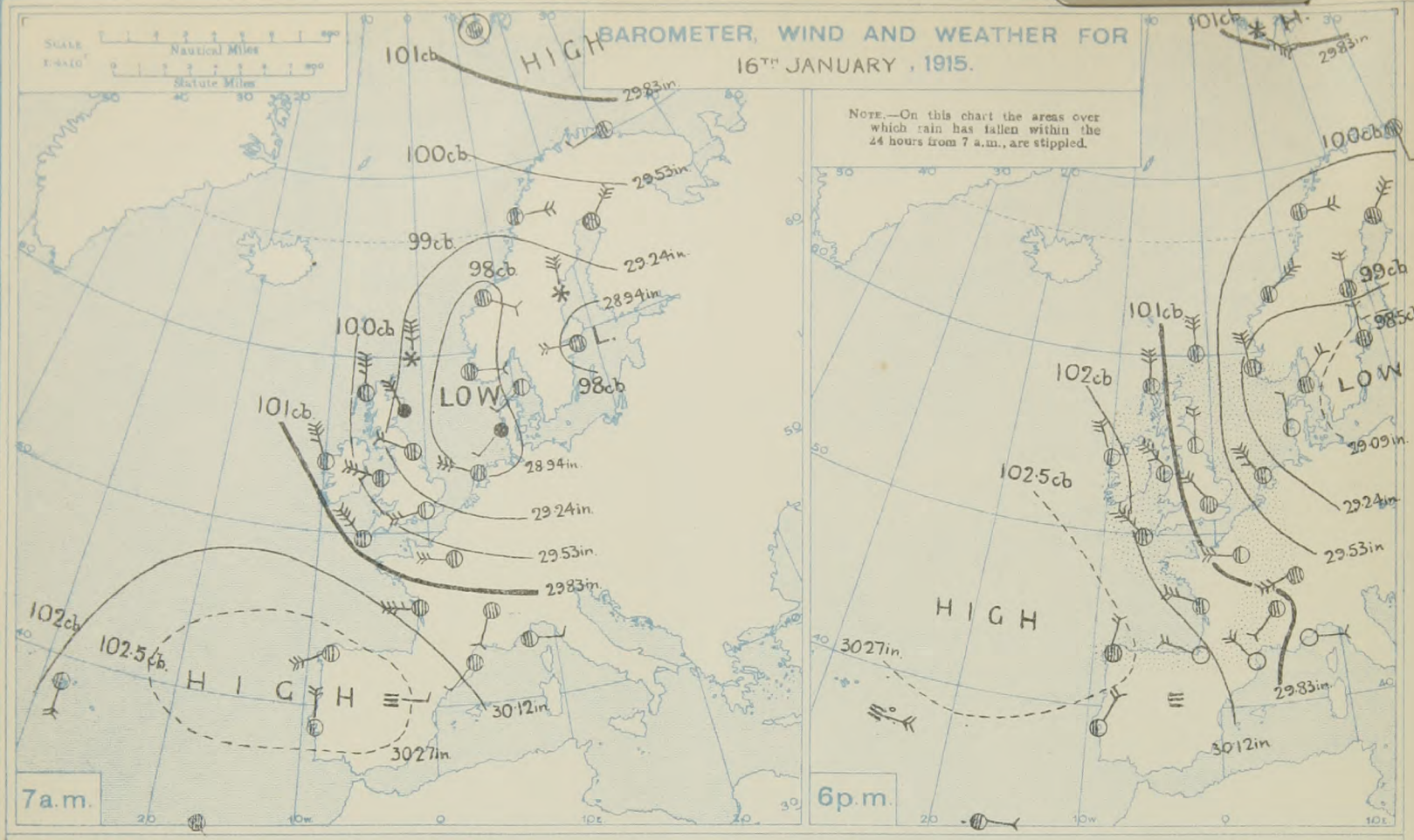
Wick
16th 7a.m – 17th 7a.m N 8 in Squalls

Aberdeen
16th morning Gusts NW 20 mps.
16th 4p.m Gust 25 mps.
16th night. Gusts NW 24 mps.

Spurn Head
16th 1p.m NNW 8
17th 1a.m NNW 8 in Squalls.

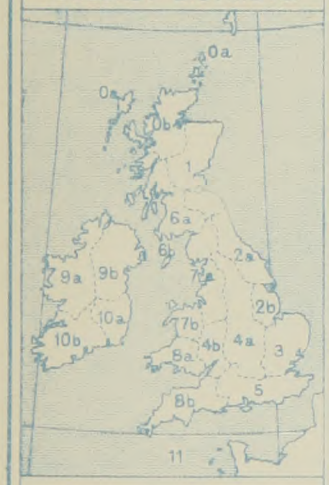
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 16TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

NO WARNINGS ISSUED.

0a, 0b, 1	Northerly and North-Westerly winds, strong at first, but moderating later; fair generally, but hail or sleet showers locally; remaining cold.
2a, 2b, 3, 4a, 4b, 5	Light to moderate North-Westerly winds; fine generally, but slight showers locally; frost tonight.
6a, 6b, 7a, 7b	Strong Northerly and North-Westerly winds moderating gradually later; fair; cold.
8a, 8b	Same as Nos. 3 to 5.
9a, 9b	Same as Nos. 6 and 7.
10a, 10b	Same as Nos. 3 to 5.
Western Channel and Bay 11	Fresh Northerly and North-Westerly winds, and a rough sea; mostly fair, but some local showers.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

Millibrs. Inch
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 17TH JANUARY, 1915.

GENERAL INFERENCE.

An anticyclone is likely to extend over these islands from the Atlantic, and improving weather is therefore probable in all districts. The North-Westerly wind will moderate gradually in force.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

101cb
100·5cb
100cb
99·5cb
99cb
101·5cb.
102cb
102·5cb
HIGH
LOW
29·24in.
29·38in
29·53in
29·68in
30·27in.
30·12in
29·97in
29·83in
120°
110°
100°
90°
80°
70°
60°
50°
40°
30°
32°

Mls. Inches.
31
30
29

SCALE 1:2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 2 3 4 500

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

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 ~~.

DAILY WEATHER REPORT. Sunday January 17th, 1915.

REPORTS FOR YESTERDAY.

January 16th 1915.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp. °F.	Evening Observations: Wind. Direc.	Evening Observations: Wind. Force 0–12.	Evening Observations: Weather.	7 a.m. G.M.T.: Barometer. Millibars at M.S.L.	7 a.m. G.M.T.: Barometer. Change in 3 hours.	7 a.m. G.M.T.: Temp. Dry Bulb. °F.	7 a.m. G.M.T.: Temp. Change in 24 hours. °F.	7 a.m. G.M.T.: Wind. Direc.	7 a.m. G.M.T.: Wind. Force 0–12.	7 a.m. G.M.T.: Direc. of Upper Cloud.	7 a.m. G.M.T.: Weather.	7 a.m. G.M.T.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1002·1	14	E	4	o	996·8	−3	10		NE	6	–	o	4	trace	16	9
Hernösand	986·1	25	NW	6	5	983·4	+1	16		N	6	–	s	7	12	28	16
Stockholm	978·6	36	SSW	4	o	975·4	+3	28		W	4	–	o	4	8	36	28
Wisby	984·2	27	SW	6	c	980·4	o	36		WSW	8	–	o	4	4	39	27
Karlstad	978·3	32	–	o	r	982·6	+1	25		W	2	–	o	4	7	34	23
Lisbon	1027·1	50	NNW	3	b	1025·1	−1	52		N	4	N	bc	6	–	52	50
Horta						1021·2	o	60		S	4	"	bc	3	–	62	59
Funchal	1023·8	64	SE	2	c	1023·9	o	67		SE	2	NE	o	2	–	70	54

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	2	43	38	o.cq/ph	hp.bch	0·5
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	11	42	36	o.c	bc.b	1·1
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	7	45	36	c.o	cq.bc	1·3
Eng. N.W.	Morecambe	10	45	38	bc	bc	2·0
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	11	44	40	o.bc.o	o.bc.b	1·3
Midlands.	Buxton	33	43	36	cr	cro	0·0
Midlands.	Leamington Spa	7	44	42	cr.bc	c.bc	1·3
Midlands.	Malvern						
Midlands.	Ross-on-Wye	10	47	39	bcq	bc.cp.b	4·4
Wales	Rhyl	8	49	43	s	oro	0·0
Wales	Colwyn Bay						
Wales	Llandudno						
Wales	Aberystwyth	5	45	40	or.c	c.c.o	3·0
Wales	Tenby	6	46	42	bc	b	5·1
Wales	Swansea	9	46	39	cp.	bch	2·0
England. N.E.	Cromer						
England. N.E.	Lowestoft						
England. N.E.	Felixstowe	4	45	42	cq	cq	0·0
England. N.E.	Walton-on-Naze	4	46	42	c.bc.c	c	0·5
England. N.E.	Southend-on-Sea	1	46	40	b.bc	b.bc	1·5
England. S.E.	Tunbridge Wells	4	45	42	ob.c.o	op.o	1·1
England. S.E.	Margate	2	46	43	bc	c	0·6
England. S.E.	Ramsgate	4	44	40	bc	c	1·2
England. S.E.	Folkestone	–	49	44	bc.b.o	o	1·6
England. S.E.	Hastings	4	47	43	or.bc.b	o.bc	4·2
England. S.E.	Bexhill-on-Sea	–	44	38	b	c	2·7
England. S.E.	Eastbourne	2	48	44	b.bc	bcm	3·6
England. S.E.	Seaford	2	48	?	c	c	4·0
England. S.E.	Brighton	–	48	45	bc.c.bc	o	4·8
England. S.E.	Worthing	3	48	44	b.bc	cr.c	5·5
England. S.E.	Littlehampton	3	48	?	?	?	?
England. S.E.	Bognor	3	48	44	b.bc	b.o	6·2
England. S.E.	Southsea						
England. S.E.	Bournemouth	–	47	42	bc	b	5·0
England. S.W.	Weymouth	1	48	43	bc	b	3·3
England. S.W.	Torquay						
England. S.W.	Paignton	4	48	43	bc	bc	4·3
England. S.W.	Falmouth	6	47	44	bcq	bcq	5·0
England. S.W.	Penzance	3	49	46	bc.b	bc	6·5
England. S.W.	Newquay	5	46	45	cq.b.cq	bcq.cq	3·9
England. S.W.	Ilfracombe	5	50	43	o	o	0·2
England. S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.)	79	74	1·4	46	34	28	–	b.cp	cp.b	bq.bc
City (Bunhill Row)	*	*	0·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	78	84	1·6	47	?	29	1	oc	o	b
Camden Sq. (Brit. Rainfall)	–	81	2·0	47	33	28	–	b.bc	–	*
Hampstead (Reservoir)	*	73	2·2	44	28	20	–	bc	bcsc	bsc
Richmond Park	*	*	1·9							
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

S. Kensington (Roof of M.O.)	93	76	1·8

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
200 Joules	6·7 Milliwatts.	20 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm §	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	8	43	40	40	cbq.b	bq.c	bc	*
Darwen to 9 p.m.	22	43	33	34	or.r	ow	owp.b	0·1
Manchester "				*				
Birmingham "	10	43	36	38	*	or	o	0·1
Oxford to 9 p.m.	*	47	38	33	or.oq.c	c.o	c.bc	*
Teignmouth to 9pm.	3	50	42	40	oqr.bc	bcp	b	8·4
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	2	49	44	39	o.or.cq	bcq.o	o.c.o	*

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 45° and 50° over the southern districts. The weather was much drier than of late, many stations having no rain. Bright sunshine was variable, from none in some localities to 6·2 hours at Bognor.

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

Jan 17th & 18th 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·57 / 7·55	12·3 / 12·3	4·9 / 4·11
Greenwich	8·0 / 7·59	12·10 / 12·10	4·21 / 4·23
Wick	8·50 / 8·48	12·22 / 12·22	3·54 / 3·57
Valencia	8·42 / 8·41	12·51 / 12·51	5·6 / 5·2

Note.—The information relating to weather is indicated by the following letters—b. blue sky: bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 18. 18th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1022·5	37	N	6	bcq	1024·7	0	34	-2	N	2	-	om	2	1	39	32	bcqp	bcq	cdp	*
	Deerness ...	1024·0	37	NNW	6	dph	1026·4	*	36	-2	WNW	2	-	c	2	1	40	34	bc.dph	c.dph	d.c	1·2
	Stornoway ...	1030·8	37	N	5	cph	1030·5	0	39	+4	N	4	N	c	4	4	39	35	bc.cq	cph.	cp	0·2
	Castlebay (Barra fsd.)	1030·7	41	*NW	3	*	1032·2	0	42	+4	WNW	3	-	dp	3	1	43	36	bc.dph.	dhp.d	hfac.dp	0·6
	Glasgow ...	1027·7	36	NNW	3	b	1031·9	0	34	+1	W	2	-	o	*	-	38	31	b.bc.o	b	b.dq	4·9
	Eskdalemuir ...	1025·9	33	NNW	6	b	1031·2	+1	31	-2	NW	1	-	cx	*	-	37	30	bq	b.bc.	bc cx	6·5
	Malin Head ...	1031·0	160	N	6	cmq	1033·7	0	41	+1	NNW	4	-	cq	5	5	42	35	cmqph	cmq	q	1·6
	Blacksod Point	1035·4	40	NNE	3	bcph	1038·7	0	40	+2	NW	3	NW	bc	4	1	42	35	bcp	bcp	bc.bc	*
	Valencia ...	1035·2	42	N	4	b	1039·3	+2	42	-1	NW	1	-	o	3	2	44	39	bcp	bcq	c.bq	4·4
	Roche's Point	1033·8	40	NNW	3	b	1036·6	*	40	+2	NNW	2	-	o	2	-	42	38	b	b	b.o	*
	Birr Castle ...	1032·8	36	NW	2	bc	1037·0	*	37	+4	NW	1	-	o	*	-	40	32	bc	bc	c.o	8·7
	Donaghadee ...	1027·7	41	N	6	bcq	1033·1	+1	38	-2	NW	3	-	cq	4	0·2	42	36			bcq,cp	*
	Liverpool (Bidston)	1025·5	39	NW	4	b	1031·9	+1	37	-2	NNW	3	-	o	3	-	40	36	b	b	bcq	6·2
	Holyhead ...	1027·4	42	N	7	bcq	1033·0	+2	39	-2	NNE	5	-	dph	5	1	44	37	c.bcph	bc.c.b	b.ob.oh	2·7
	Pembroke (St. Ann's)	1027·4	41	NNW	4	b	1034·4	+2	41	+1	NNW	4	N	cq	3	0·2	42	38	bcq	cq	bq	3·2
	Scilly (St. Mary's)	1028·9	42	N	6	bcqp	1035·1	+2	43	+1	N	5	N	cq	6	1	45	39	bcqp	bcqp	bcq.dp	5·3
	Falmouth ...	1027·6	41	N	5	bcq	1034·8	+3	38	-3	N	3	-	o	3	6	44	37	bc	bcqph.	bcph	6·1
	Jersey (St. Aubin)	1022·8	42	NW	3	bc	1031·1	*	41	-2	NW	4	NW	c	3	2	50	38	cqph	cpqh.b	bc	2·8
	Portland Bill ...	1023·6	40	NNW	4	b	1031·8	+3	37	-2	NNW	5	-	b	3	-	44	36	bc	bc	b	*
	Dungeness ...	1017·8	35	NW	4	bzq	1025·9	+4	36	+2	N	6	N	o	3	-	40	32	bzq	bcq	bz.c.o	*
	Dover	1018·1	37	NW	6	b	1026·2	+7	35	+1	NW	6	NW	b	4	-	39	33	b	b.bc.b	b.bc.c.o	1·0
	Wick	1025·2	37	NNW	6	c	1027·6	0	36	-1	-	0	-	o	4	0·4	40	33	cqphm	cmpq	cm.om	*
	Nairn	1028·4	37	NNW	3	c	1029·3	*	35	+1	NW	2	-	cq	3	2	37	33	bpoq	cpq	co	0·0
	Aberdeen ...	1023·8	37	NW	5	b	1028·3	0	34	-1	WNW	3	-	c	3	7	38	34	bchqp	bcshq	bchoq	1·3
	Leith	1024·6	38	NW	2	b	1030·1	0	36	0	WSW	2	-	b	*	-	39	34	b	b	c.o	*
	Tynemouth ...	1020·9	37	NW	4	od	1028·7	-7	35	0	NW	3	-	cm	4	3	40	33	bc	bc.	bcm	*
	Spurn Head ...	1017·2	36	NNW	7	s	1026·3	+2	34	-2	NNW	7	-	bcqph	6	9	39	32	bcq	bcqs	bcqph	4·3
	Yarmouth ...	1014·8	38	NW	4	bcps	1024·9	+5	36	+1	NW	4	NW	os	2	7	40	30	bcps	bcps	bcps	2·3
	Clacton-on-Sea	1016·2	38	NW	4	c	1025·2	+2	34	-1	NNW	4	N	cps	3	3	38	33	bc.b	b.bcps	bcfps	6·4
	Nottingham ...	1022·3	37	NW	4	b	1029·3	*	34	-1	N	3	-	b	*	-	40	33	bm	bm	b	4·9
	Bath	1024·4	37	N	2	b	1032·1	*	34	-2	NW	2	-	b	*	-	43	33	c.bc.b	bc.b	b	6·3
	London (Kew Obsy.)	1021·1	37	NNW	3	b	1029·4	+4	34	-1	NNW	3	-	b	*	-	41	34	b	b.	b	5·9
ICELAND, FAEROE, &c.	Spitsbergen ...	1012·0	9	SE	2	s	1010·9	*	10	0	-	0	*	o	*	*	10	9				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1011·4	27	-	0	s	1013·7	0	27	0	NE	4	-	bc	3	*	27	19				
	Bodö	1012·4	14	E	2	b	1017·3	+2	14	-4	E	2	-	b	2	-	18	10				
	Christiansund	1015·3	34	W	4	c	1018·4	+3	32	+5	-	0	-	c	3	6	34	25				
	Skudesnaes ..	1013·9	30	N	2	b	1019·4	+2	30	-4	N	2	-	b	1	-	34	28				
	Færder (Xtiania Fjord)	1009·2	25	NNW	5	b	1014·1	+4	28	+7	NW	2	-	bc	1	Trace	28	21				
	The Scaw (Skagen)	1006·3	23	NE	6	o	1012·7	0	30	+3	NNE	6	-	bc	5	1	30	23				
	Blaavands Huk	1006·2	27	NNW	4	bc	1015·2	+3	27	+10	NE	1	-	b	3	1	37	21				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (0 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·1	39	NW	6	c	1020·4	+6	37	-4	N	3	-	bc	3	2	43	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1017·2	39	NNW	6	bc	1024·0	+4	37	0	NNW	7	*	o	8	-	41	34				
	La Hève	1020·2	39	NNW	4	bc	1025·9	*	37	-4	N	6	*	c	6	-	45	36				
	Ushant	1027·7	48	NNE	6	bc	1033·3	*	46	0	NE	6	*	bc	7	-	48	41				
	Brest (St. Mathieu)	1027·7	43	N	4	c	1034·4	+3	41	-2	NNE	3	*	b	3	2	48	36				
	Rochefort (Ile d'Aix)	1023·1	41	NNW	5	bc	1029·2	+3	40	-5	N	6	*	b	*	-	50	37				
	Biarritz	1024·4	43	NW	3	b	1028·8	+4	37	-13	E	3	*	b	4	13	54	36				
	Paris	1019·1	37	NW	3	b	1024·2	+3	34	-2	NNW	3	-	bc	*	Trace	43	34				
	Belfort							*					*		*							
	Lyons	1020·2	33	WNW	3	s	1021·3	*	31	-7	NW	3	*	s	*	2	40	30				
	Nice	1007·8	41	E	4	o	1010·3	0	32	-13	E	2	*	c	3	1	55	30				
	Perpignan ..	1019·5	43	N	2	b	1021·9	+3	37	-6	NW	4	N	b	*	1	50	36				
	Sanguinaire ...	1009·2	51	WNW	6	m	1007·9	*	46		WNW	5	*	o	5	-	54	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030·3	50	NE	5	f	1035·8	+4	46	0	NE	5	-	bc	4	2	52	43				
	Madrid (8 a.m.)	1022·7	45	N	4	b	1029·5	+4	34	-5	?	1	-	bc	*	-	48	32				
	Lisbon (9 a.m.) †	1022·6	52	NNW	4	bc	1028·3	+3	45	-7	NNW	3	-	b	5	-	55	45				
	Gibraltar	1020·0	51	NW	5	b	1021·0	*	45		N	3	*	b	1	-	58	45				
	Rome														*							
	Azores (Horta, 8 a.m.)		*										*									
	Madeira (Funchal)	1021·5	63	E	3	bc	1024·0	+1	55	0	E	3	NW	o	3	-	66	55				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
17th 7 a.m.-noon. N. 8

Malin Head
17th 7 a.m.-11 a.m. NNW. 8

Scilly
17th 4 p.m. gusts N 23 m.p.s (8)

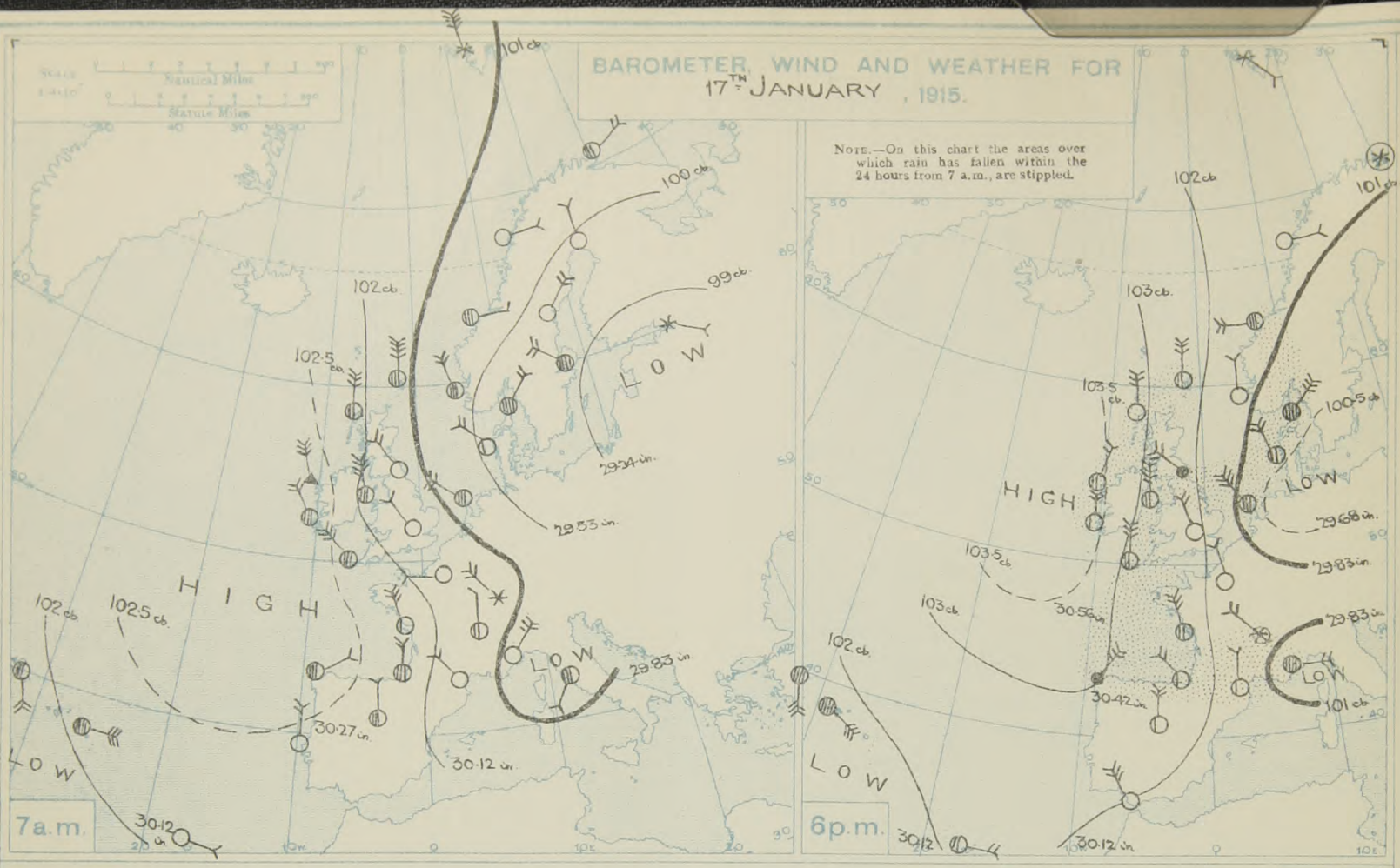
Dover
Extreme SW. 8, 15th 2 a.m.

Aberdeen
17th, gusts 20 m.p.s (8)

Spurn Head
Extreme 8 in squalls.

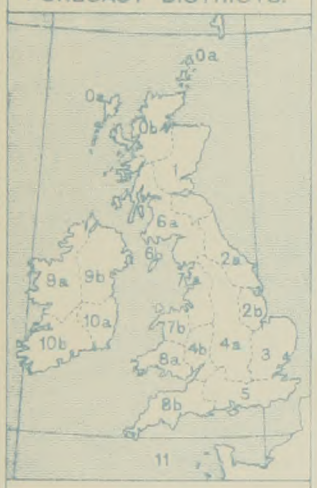
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 17TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

0 a, b 1 2 a, b 3	North-Westerly or Northerly winds, moderate or light; mostly fair, but cloudy or dull at times, some local snow or hail showers; no great change of temperature.
4 a, b 5	Northerly to North-Westerly winds, strong, then moderating; mostly fair, cloudy occasionally; temperature low.
6 a, b	Same as Nos. 0 to 3.
7 a, b 8 a, b	Northerly winds, fresh to light, backing somewhat later; mostly fair, cloudy occasionally; temperature low.
9 a, b 10 a, b	Wind mainly Northerly, light or moderate; mostly fair, overcast at times; temperature low.
Western Channel and Bay 11	Northerly winds, fresh to light; sea rather rough to moderate; mostly fair.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

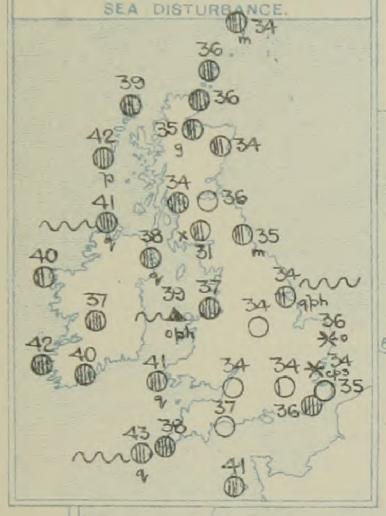
Printed at the Meteorological Office, South Kensington, London, S.W.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 18TH JANUARY, 1915.

GENERAL INFERENCE

There are no indications of the approach of any cyclonic disturbance.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Generally LOW

HIGH

Barometer falling

Barometer rising

Steady

101.5 cb.

102 cb.

102.5 cb.

103 cb.

103.5 cb.

20°

32°

35°

40°

29.97 in.

29.83 in.

30.12 in.

30.56 in.

30.42 in.

30.27 in.

L.O.W

Ms. Inches.

31

30

29

SCALE 1 : 2·10⁷

Nautical Miles 0 1 2 3 4 5 6 7

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 JANUARY.

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 ~~.

DAILY WEATHER REPORT. Monday, January 18th 1915.

PILOT BALLOON ASCENTS for the PAST WEEK.

Component Velocities to East and to North in Metres per Second.

Station		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Date & Hour		South Farnborough 11h.	10h.	Falmouth 12h.	11h.														
Height in Kilometres																			
	2	+26	-6	+12	-11														
	1	+22	-6	+6	-6														
	0·5	+19	0	+6	-5														
	0	+10	+3	+5	-4														

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
	Banff	2	41	36	bchfpq	chfpq	0·8
	St. Andrews				*	*	
Engl. N.E.	Harrogate	-	38	31	b	b	6·4
	Scarborough	*	39	32	o	oo	2·5
	Skegness	1	39	33	b bc	bcs	4·6
Engl. N.W.	Morecambe						
	Blackpool	1	40	37	b	bc	5·0
	Southport	-	40	35	b	b	6·8
Midlands.	Buxton	-	40	33	bc	bc	6·3
	Leamington Spa	1	40	34	b	b	6·7
	Malvern	-	43	32	bc	bc.b.o	6·6
	Ross-on-Wye						
Wales.	Rhyl	-	42	39	bc	bc	3·7
	Colwyn Bay	-	41	39	bc	bc	2·5
	Llandudno						
	Aberystwyth	1	42	35	ch.o	c.bc	3·2
	Tenby						
	Swansea	4	42	35	b ch.	b	4·3
England. E.	Cromer	2	39	34	bcs	o.cfs	0·5
	Lowestoft	6	38	32	o.cpc.c	c.cpc	2·5
	Felixstowe	0·3	39	33	bc	bcp	5·6
	Walton-on-Naze	-	38	33	b	b bc.b	6·3
	Southend-on-Sea	-	40	33	bc.b	b.bc	6·5
England, S.E.	Tunbridge Wells	-	39	33	b	b.bc.c.b	6·0
	Margate	-	40	36	b	b	6·5
	Ramsgate	-	39	33	bc	bc	6·3
	Folkestone	-	47	35	b.o.bc	b.o.b	6·7
	Hastings	-	41	34	b	b.bc	6·1
	Bexhill-on-Sea	-	45	38	b	b	5·6
	Eastbourne	-	41	35	b	bm	6·2
	Seaford						
	Brighton	-	41	34	bc	bc	6·4
	Worthing	-	42	34	b	b	7·0
	Littlehampton	-	45	*	b	b	7·0
	Bognor	-	42	34	b	b	7·3
	Southsea						
	Bournemouth	-	42	35	b	b	7·3
England, S.W.	Weymouth	-	43	36	b	b	7·1
	Torquay	0·3	44	40	b	bb.bc.b	5·5
	Paignton						
	Falmouth	1	44	39	bc	bcapk	6·1
	Penzance						
	Newquay	1	44	38	bma	bcaqbq	5·6
	Ilfracombe	2	43	35	bc.cpk	c.bc	1·1
	Weston-super-Mare	-	44	37	b	b	6·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	63	70	4·5	39	34	28	-	b	b bc	bc
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	71	65		41	?	28	-	bc	b	b
Camden Sq. (Brit. Rainfall)	-	85	5·0	40	33	27	-	-	-	*
Hampstead (Reservoir)	*	77	5·5	39	27	20	-	bc	bc	bc
Richmond Park	*	*	5·9							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	70	4·6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
292 Joules	9·7 Milliwatts.	18 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	-	40	32	31	bc	bc	bc	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	-	38	32	28	*	c	c.b	5·4
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	0·3	44	38	35	bcp	bcpo	bcpb	5·5
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	43	34	27	c.b	b	b	*

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many parts of Scotland and at some English stations. Bright sunshine was very prevalent for the time of year except in the extreme north and north-east of the Kingdom. Lightning was observed at Clacton-on-Sea and Ilfracombe.

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

Jan. 18th & 19th, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·55 / 7·54	12·3 / 12·4	4·11 / 4·13
Greenwich	7·59 / 7·57	12·10 / 12·11	4·23 / 4·25
Wick	8·48 / 8·46	12·22 / 12·23	3·37 / 4·0
Valencia	8·41 / 8·40	12·51 / 12·52	5·2 / 5·4

Note.—The information relating to weather is indicated by the following letters—b. blue sky: bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 19

Tuesday 13th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1022.7	39	SSW	2	odm	1015.7	-1	47	+13	W	4	-	om	4	6	47	33	cm	odm	omr	*
	Deerness ...	1024.0	42	W	2	od	1015.9	*	46	+10	W	4	-	o	3	3	46	35	cp.c	cp.od	od.o	0.2
	Stornoway ...	1027.0	42	SW	3	or	1022.8	-2	46	+7	WSW	5	-	oq	4	1	47	38	c.o	odp	o.bc.odpq	0.0
	Castlebay (Barra Isd.)	1029.3	46	W	4	o	1026.1	-3	47	+5	W	4	-	d	4	1	48	41	qp	op.c	bc.od.r	0.0
	Glasgow ...	1031.4	40	SW	2	o	1027.9	-1	44	+10	WSW	3	-	o	*	1	44	34	oq	oqq	odmp	0.0
	Eskdalemuir ...	1031.0	38	WNW	5	c	1029.1	-1	41	+10	SW	2	-	o	*	0.2	41	30	c	c	c.or.do	0.9
	Malin Head ...	1032.7	44	WNW	4	c	1024.6	-1	45	+4	W	5	-	omd	5	1	45	40			omd	0.3
	Blacksod Point	1037.1	42	WNW	3	bcp	1034.5	?-4	44	+4	W	3	W	cm	3	1	44	39	bc.	bcp	bcp.bc	*
	Valencia ...	1039.9	44	WNW	2	b	1038.2	-1	46	+4	WSW	3	-	o	4	1	46	41	cp	bc	bc.o	1.3
	Roche's Point	1039.0	43	NNW	4	bc	1038.3	*	43	+3	WNW	2	-	o	2	0.2	45	38	o.c	ogp.bc	b.o	*
	Birr Castle ...	1037.2	41	W	1	c	1035.5	*	43	+6	W	1	-	o	*	-	45	35	c	c	c.oe	1.7
	Donaghadee ...	1033.0	40	W	3	bc	1031.6	-2	44	+6	WNW	3	-	ogm	2	0.3	44	36	bcm	bcm	bcm.om	*
	Liverpool (Bidston)	1033.4	41	WNW	3	c	1032.4	-1	43	+4	W	4	W	oe	3	-	43	36	b	c.o	o	3.2
	Holyhead ...	1033.0	44	NNW	5	bc	1033.5	+1	44	+5	NW	5	-	o	4	1	45	37	cp.cd.c	c.o.bc.c	c.bc.c.o	1.8
	Pembroke (St. Ann's)	1036.4	41	NNW	3	bc	1036.0	0	44	+3	NW	4	NW	cq	4	-	44	41	cq	cq	bc	*0.1
	Scilly (St. Mary's)	1037.4	43	NNW	5	cpqr	1036.3	0	45	+2	NW	4	N	cr	5	0.3	46	41	cpqr	cpqr	cp.bcr	0.0
	Falmouth ...	1036.7	42	NNW	4	bc	1037.3	0	43	+5	N	2	-	o	2	-	46	37	bc	c.o	bc.o	1.0
	Jersey (St. Aubin)	1033.0	41	N	4	o	1035.4	*	42	+1	NW	3	NW	o	2	.1	43	37	bc	cp.c.o	o.b.cph	4.2
	Portland Bill ...	1033.5	40	NNW	3	b	1035.2	0	41	+4	NW	3	-	c	3	-	42	37	b.bc	b	b.bc	*
	Dungeness ...	1030.4	33	NNW	2	b	1031.7	0	34	-2	NW	2	-	o	2	-	40	30	o.bc	bc.b	bc.c.o	*
	Dover	1030.4	35	NW	4	b	1032.0	0	36	+1	NW	4	SW	c	2	-	39	33	bps.bc	b.bc.b	b.bc.c	6.4
	Wick	1026.3	39	SW	3	o	1020.5	-3	44	+8	W	3	-	o	3	1	45	35	o.cmp	c.omp	om	*
	Nairn	1027.5	40	WNW	1	ou	1022.9	*	47	+12	WSW	1	-	og	1	0.3	47	35	c	cg	oq	0.0
	Aberdeen ...	1028.1	39	W	3	o	1024.2	-1	43	+9	WSW	3	-	o	3	-	44	33	c.o	c.o	c.o	0.0
	Leith	1030.9	41	W	2	o	1026.7	-1	45	+9	WSW	3	-	o	*	-	45	35	c.bc.c	c.o	o	*
	Tynemouth ...	1029.4	37	WNW	3	bm	1027.6	-2	42	+7	W	2	-	c	3	-	42	34	bcm	bcm	o	*
	Spurn Head ...	1030.0	36	NNW	5	c	1030.2	0	40	+6	WNW	4	-	cm	5	-	40	33	bcqm	cqm	cqm	1.8
	Yarmouth ...	1029.8	36	NNW	3	omrh	1030.9	0	34	-2	W	2	-	o	1	4	41	33	os.c	c.omh	bc.o	1.6
	Clacton-on-Sea	1030.0	36	NNW	3	c	1031.1	0	36	+2	WNW	2	-	om	1	-	38	33	c.bc	bc.c	bc.om	6.2
	Nottingham ...	1032.0	38	NW	3	c	1031.5	*	40	+6	W	1	W	om	*	-	41	32	bcm	cm.o	om.o	0.6
	Bath	1034.2	39	NNW	1	o	1034.7	*	40	+6	NW	1	NW	o	*	0.2	42	33	b.bc.c	c.bc.o	o.pm	3.8
	London (Kew Obsy.)	1032.4	36	NNW	2	bx	1033.2	0	36	+2	WSW	1	-	om	*	-	40	32	b.bm	bm.b.bc	om	5.6
ICELAND, FAEROE, &c.	Spitsbergen ...	1008.4	5	-	0	b	1001.3	*	5	-5	-	0	*	b	*	*	12	-2				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1017.2	27	-	0	o	1016.8	0	21	-6	-	0	-	b	2	*	27	21				
	Bodö	1018.9	14	E	4	b	1008.2	-5	30	+16	E	5	-	o	2	-	30	10				
	Christiansund	1019.9	36	SW	3	o	1008.7	-6	39	+7	S	2	-	T	4	3	39	30				
	Skudesnaes ..	1024.6	32	-	0	b	1020.6	-3	36	+6	SSE	8	-	T	4	2	36	28				
	Færder (X'iania Fjord)	1023.3	27	NNW	2	b	1023.8	-2	30	+2	SSW	4	-	o	2	1	30	27				
	The Scaw (Skagen)	1021.2	25	NNE	4	b	1025.7	0	27	-3	SW	1	-	b	0	-	30	23				
	Blaavands Huk	1022.1	30	NNE	2	b	1027.9	0	23	-4	SE	1	-	b	1	-	37	18				
	Haparanda ...	1016.4	1	N	4	b	1019.4	+1	14	+9	NNE	2	-	b	*	-	14	-4				
	Hernösand ...	1018.3	16	N	2	b	1022.1	0	3	-15	-	0	-	b	*	-	19	1				
	Stockholm ...	1013.9	21	NW	2	o	1021.9	+4	16	+2	WNW	2	-	s	*	1	21	14				
	Wisby	1013.9	28	N	6	s	1022.7	+6	27	+4	N	6	-	s	*	2	28	23				
	Karlstad	1021.3	30	N	2	b	1028.7	+1	0	-9	-	0	-	bc	*	-	30	-2				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1026.1	36	N	1	bc	1029.5	+2	34	-3	-	0	-	c	1	1	39	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1029.3	37	N	6	b	1032.2	0	40	+3	NNW	5	*	c	4	-	40	37				
	La Hève	1031.7	39	NE	3	o	1035.4	*	41	+4	N	3	*	c	4	-	45	37				
	Ushant	1030.7	46	NE	6	bc	1037.1	*	46	0	NE	4	*	c	3	4	48	39				
	Brest (St. Mathieu)	1035.9	43	NNE	3	c	1038.7	0	41	0	N	3	*	c	3	2	45	36				
	Rochefort (Ile d'Aix)	1033.0	42	NE	6	c	1035.5	+3	37	-3	NNE	4	*	b	*	-	48	36				
	Biarritz												*									
	Paris	1029.0	37	N	3	o	1032.4	+1	32	-2	-	0	NE	bc	*	1	39	30				
	Belfort							*					*		*							
	Lyons	1018.9	31	NNW	2	b	1031.4	*	31	0	N	3	*	b	*	1	37	23				
	Nice	1012.8	37	-	0	bc	1016.7	+2	36	+4	E	3	*	b	2	-	48	30				
	Perpignan ..	1024.2	39	NW	5	o	1025.0	+2	37	0	NW	4	N	b	*	Trace	41	34				
	Sanguinaire ...	1010.6	43	E	3	c	1010.3	*	39	-7	E	2	*	c	4	-	54	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1037.5	48	NE	5	c	1040.4	+1	45	-1	NE	5	-	T	3	1	50	43				
	Madrid (8 a.m.)	1031.3	39	N	4	b	1034.1	+2	36	+2	-	0	-	c	*	-	41	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1022.9	*	SE	5	o							*									
	Madeira (Funchal) †	1026.6	61	E	3	o	1029.7	0	57	+2	?	?	E	b	?	-	64	55				

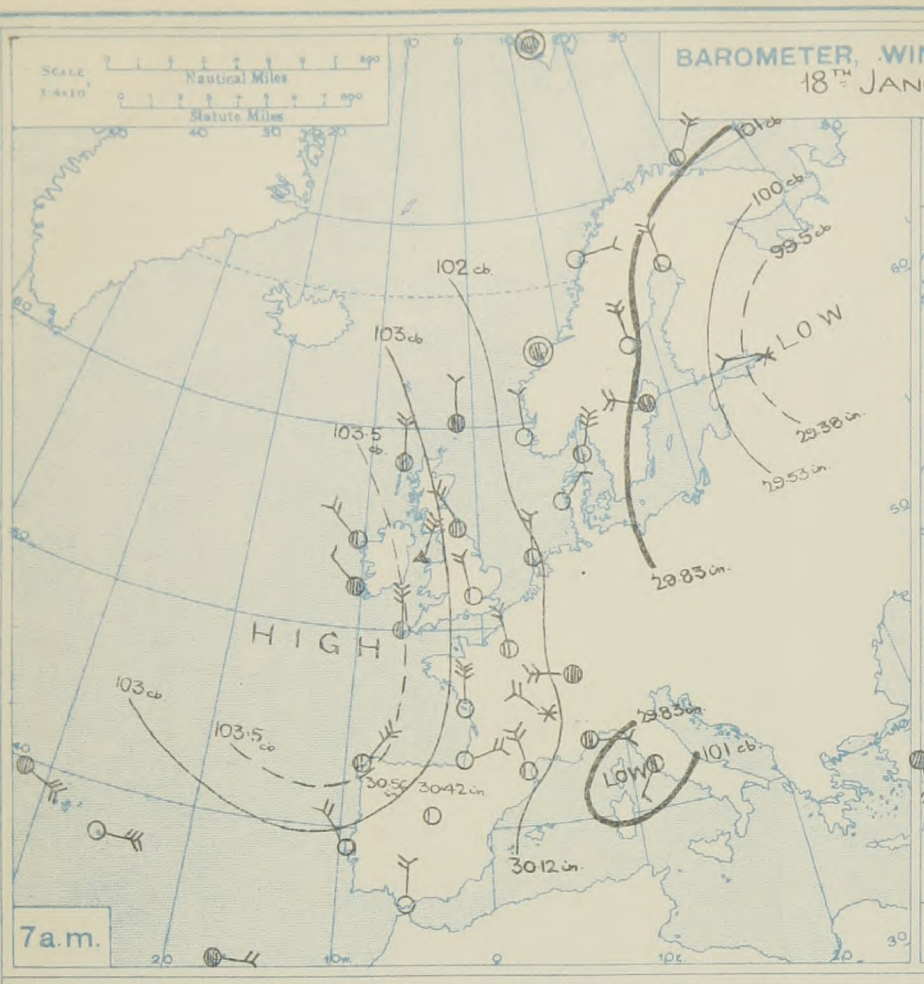
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibar

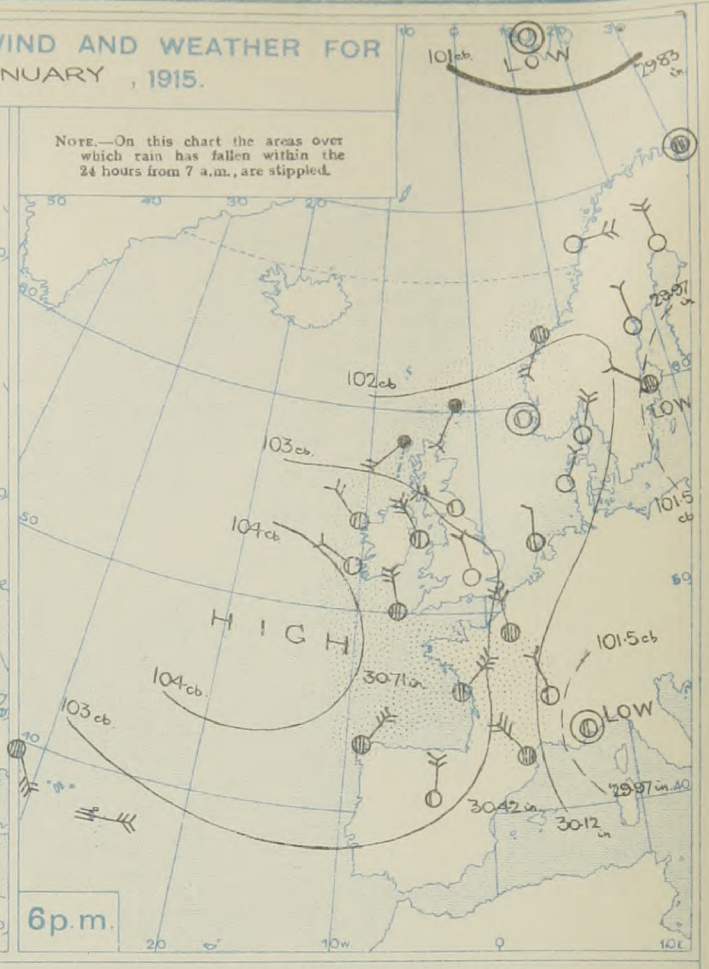
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

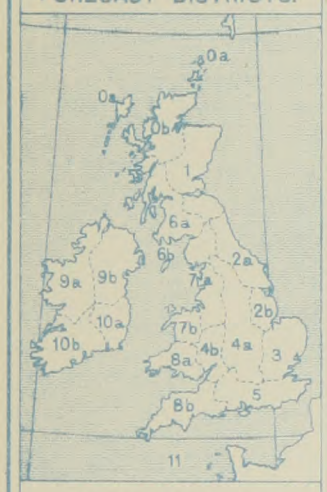
BAROMETER, WIND AND WEATHER FOR 18TH JANUARY, 1915.





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

0 a, b; 1	Moderate or fresh Westerly to South-Westerly wind; cloudy, occasional slight rain and mist; moderate temperature.
2 a, b	Moderate or fresh wind from between West and South-West; cloudy, slight rain or mist; temperature becoming more moderate.
3; 4 a, b; 5	Light winds, mainly Westerly; mostly fair; temperature moderately low at first, rising somewhat later.
6 a, b	Same as Nos 0 and 1.
7 a, b; 8 a, b; 9 a, b; 10 a, b	Wind becoming more Westerly, moderate in force; mostly cloudy or overcast, occasional slight rain and mist; moderate temperature.
Western Channel and Bay 11	Moderate Westerly wind, and a moderate or rather rough sea; weather mostly fair.

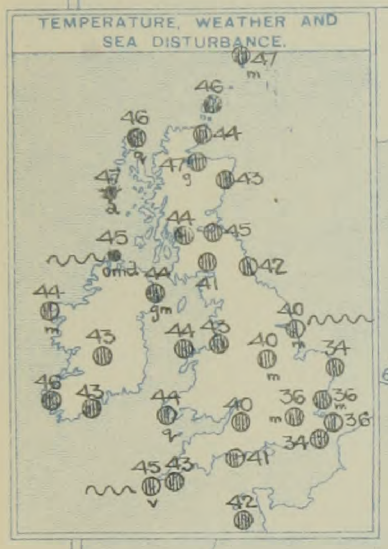
FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 19TH JANUARY, 1915.

GENERAL INFERENCE.

A large depression is indicated far to the north of Scotland, which will cause some freshening of the wind from West or South-West on our north-western seaboard.



LOW

HIGH

LOW

Barometer falling

Barometer rising slowly

Barometer

1005 mb.

101 mb.

101·5 mb.

102 mb.

102·5 mb.

103 mb.

103·5 mb.

104 mb.

29·83 in.

29·97 in.

30·12 in.

30·27 in.

30·42 in.

30·56 in.

30·71 in.

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 JANUARY.

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 ∿∿.

DAILY WEATHER REPORT.

Tuesday, January 19th, 1915

REPORTS FOR YESTERDAY.

18th January 1915

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp. F.	Evening Observations: Wind Direc.	Evening Observations: Wind Force 0–12.	Evening Observations: Weather.	7 a.m. G.M.T.: Barometer Millibars at M.S.L.	7 a.m. G.M.T.: Barometer Change in 3 hours.	7 a.m. G.M.T.: Temp. Dry Bulb. F.	7 a.m. G.M.T.: Temp. Change in 24 hours. F.	7 a.m. G.M.T.: Wind Direc.	7 a.m. G.M.T.: Wind Force 0–12.	7 a.m. G.M.T.: Direc. of Upper Cloud.	7 a.m. G.M.T.: Weather.	7 a.m. G.M.T.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1004·6	14	N	4	b	1005·6	–	5	-4	N	4	–	b	–	1	14	6
Hernösand	1002·9	12	NE	4	b	1010·4	–	18	+6	N	4	–	b	–	–	18	12
Stockholm	1000·3	18	NW	4	0	1005·6	+3	14	-7	WNW	4	–	0	–	Trace	21	12
Wisby	999·1	27	N	8	0	1006·7	+4	23	-9	NW	6	–	0	–	Trace	32	23
Karlstad	1006·6	32	NW	2	b	1012·4	+3	9	-7	WNW	2	–	0	–	–	18	7
Petrograd	984·7	30	NW	1	S	991·3	0	23	-9	WNW	2	–	S	–	3	30	21
Belfort	1017·3	32	W	6	S	1018·9	–	28	-4	W	4	–	0	–	4	36	28
Rome	1008·7	50	SW	1	0	1008·8	0	48	-4	SW	2	–	bc	–	–	57	45

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	1	41	36	c	bc. od	0·3
Scotland.	St. Andrews	–	48	33	*	*	1·6
Eng. N.E.	Harrogate	–	39	31	c. bc	b. bc	3·7
Eng. N.E.	Scarborough	*	38	32	o. c	o. c	0·5
Eng. N.E.	Skegness	6	37	32	o. bc	bc. o	1·1
Eng. N.W.	Morecambe	–	42	35	b	b	4·0
Eng. N.W.	Blackpool	–	42	35	c. bc	c	3·6
Eng. N.W.	Southport	–	42	34	o. c. bc	c. o bc. c	3·5
Midlands.	Buxton	–	36	28	bc	bc	0·2
Midlands.	Leamington Spa	–	39	31	bc	bc	2·1
Midlands.	Malvern	–	40	34	b	b	4·2
Midlands.	Ross-on-Wye						
Wales.	Rhyl	–	43	39	b	b	2·5
Wales.	Colwyn Bay	–	44	39	bc	bc	2·5
Wales.	Llandudno	–	45	41	bc	bc	?
Wales.	Aberystwyth	–	42	38	o. c. c	c. o. o	1·2
Wales.	Tenby	5	40	34	bc. o	bp	5·1
Wales.	Swansea	1	44	31	o. bc	b	2·8
England. E.	Cromer	1	44	35	oha	bca	2·7
England. E.	Lowestoft	5	41	33	o. cpsa	c. ops. c	2·5
England. E.	Felixstowe	5	39	32	bcp	bcp	4·0
England. E.	Walton-on-Naze	2	38	32	b. bc	b. bc	5·0
England. E.	Southend-on-Sea	–	39	32	bc. b	b. bc	4·9
England. S.E.	Tunbridge Wells	–	38	34	bm. bc	bca. bm	2·5
England. S.E.	Margate	1	40	36	c	bc	1·4
England. S.E.	Ramsgate	1	38	33	bc	bc	2·1
England. S.E.	Folkestone	–	40	34	b. o	b	5·9
England. S.E.	Hastings	–	39	35	b	b. c. b	5·5
England. S.E.	Bexhill-on-Sea	–	46	?	b	c	3·7
England. S.E.	Eastbourne	–	39	33	b	bm	5·5
England. S.E.	Seaford	–	39	33	b	b	5·1
England. S.E.	Brighton	–	40	34	b	b	6·2
England. S.E.	Worthing	–	40	33	b	b	6·8
England. S.E.	Littlehampton	–	40	*	b	b	6·1
England. S.E.	Bognor	–	40	34	b	b	6·6
England. S.E.	Southsea	–	40	34	b	b	7·0
England. S.E.	Bournemouth	–	40	33	b	b	7·5
England. S.W.	Weymouth	–	42	32	b	b	7·1
England. S.W.	Torquay	–	43	31	c. o	c. bc. b	3·7
England. S.W.	Paignton	–	43	33	bc	bc	3·6
England. S.W.	Falmouth	6	46	37	bc	c. o	1·0
England. S.W.	Penzance	0·3	45	40	o	o	0·1
England. S.W.	Newquay	1	44	39	o. cq	oqp	0·1
England. S.W.	Ilfracombe	–	43	40	o	o	0·1
England. S.W.	Weston-super-Mare	–	42	36	bc	b	3·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.)	67	93	4·1	39	33	27	0·3	b	b	b, o, or, o
City (Bunhill Row)	*	*	1·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	91	2·7	41	31	28	–	bc	b	oc
Camden Sq. (Brit. Rainfall)	67	93	3·9	39	32	27	–	b, c	b	*
Hampstead (Reservoir)	*	61	4·4	37	28	19	–	bc	cx	o
Richmond Park	*	*								
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

S. Kensington (Roof of M.O.)	62	87	3·8

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
303 Joules	10·0 Milliwatts.	26 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	–	39	30	24	bc. o	bc	bc. o	3·7
Manchester ,,	–	41	33	*	c. o	o. c	c. o	0·0
Birmingham ,,	–	38	31	27	*	o	o	0·0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	40	34	27	b	b	bc, bc	*

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

19th & 20th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·54	12·4	4·13
	7·53	12·4	4·15
Greenwich	7·57	12·11	4·25
	7·56	12·11	4·26
Wick	8·46	12·23	4·0
	8·44	12·23	4·3
Valencia	8·40	12·32	5·4
	8·39	12·32	5·5

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 45° at only a few stations in the British Isles. Weather was mostly fair or bright; the southern districts in particular recorded much bright sunshine, - up to 7·5 hours at Bournemouth.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 20

Wednesday, 20th January, 1915

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rain-fall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·6	47	SW	5	om	997·0	-7	47	0	SSW	6	-	o̲pq̲	5	5	47	39	om	orm	omdq̲	*
	Deerness ...	1014·9	45	WSW	4	d	997·6	*	45	-1	SSW	6	-	omd	5	5	47	44	o	od	od	0·0
	Stornoway ...	1017·3	47	WSW	5	r	997·5	-8	49	+3	SSW	7	-	odp̲q̲	6	5	49	36	odpmq̲	odmpq̲	odpq̲	0·0
	Castlebay (Barra Isd.)	1022·1	48	WSW	4	op	1003·0	-11	49	+2	SW	7	-	op	6	1	49	41	d	op	op	0·0
	Glasgow ...	1025·5	45	WSW	3	ogd	1011·6	-12	44	0	SW	5	-	odq̲	*	1	46	43	odpgm	odpg	od.dpq̲	0·0
	Eskdalemuir ...	1027·3	42	SW	3	orm	1014·8	-8	42	+1	SSW	8	-	od	*	2	43	40	or.o	o.orm	orm.od	0·0
	Malin Head ...	1025·7	46	WSW	5	cdm	1009·7	-14	48	+3	SSW	6	SW	cq̲	6	-	48	35	cmq̲	cdm	cq̲	0·0
	Blacksod Point																					*
	Valencia ...	1035·2	47	SW	3	c	1023·7	-9	49	+3	SW	4	-	r	5	2	49	48	bc	cm	omp	2·4
	Roche's Point	1035·7	46	W	2	o	1025·0	*	48	+5	WSW	3	-	o	3	-	48	41	o	o.c.o	c.o	*
	Birr Castle ...	1033·2	45	W	1	r	1019·9	*	47	+4	SW	4	-	r	*	3	47	40	od	od	od.or	0·0
	Donaghadee ...	1028·3	45	W	3	ogm	1016·4	-8	46	+2	SW	4	-	ogm	3	-	46	42	cgm	ogm	ogm	*
	Liverpool (Bidston)	1030·3	43	W	4	o	1021·1	-6	45	+2	WSW	3	-	o	3	-	45	41	oe	o	o.c	0·0
	Holyhead ...	1031·3	40	W	5	om	1021·2	-5	46	+1	WSW	5	-	ogm	4	Trace	46	43	o.c.od	om	oe.om	0·0
	Pembroke (St. Ann's)	1035·0	44	WNW	4	o	1026·5	-3	47	+3	W	4	W	cq̲p	4	0·2	47	44	cq̲	oq̲	oq̲	0·0
	Scilly (St. Mary's)	1030·4	46	WNW	5	cpq̲	1029·7	-6	46	+1	W	5	W	oq̲p	5	1	48	44	cq̲	cpvq̲	oq̲p.bc	1·1
	Falmouth ...	1035·4	44	NW	3	c	1028·9	-4	45	+2	W	3	-	o	3	1	47	43	bc	c.o	od.o	1·4
	Jersey (St. Aubin)	1034·2	46	NW	3	o	1029·8	*	45	+3	W	3	-	oe	3	0·3	50	41	c.op.c	c.o	oe.od.e	0·6
	Portland Bill ...	1034·1	44	NW	3	c	1028·0	-4	46	+5	W	4	-	o	3	-	47	41	c	c	c.o	*
	Dungeness ...	1030·8	39	NW	1	omq̲	1026·8	-4	43	+9	W	2	-	oq̲	2	-	43	34	cm	om	o.oq̲	*
	Dover	1031·1	40	W	2	ome	1026·6	+1	42	+6	SW	2	-	o	2	0·1	42	36	c.o	o	cd.o	0·0
	Wick	1016·2	47	WNW	3	o	1001·0	-10	45	+1	W	5	-	o	4	0·3	48	43	om	omq̲	omq̲p	*
	Nairn	1019·7	47	W	2	cq̲	1001·5	*	46	-1	WSW	6	-	bcq̲	3	-	49	44	bc	cqq̲	cq̲	0·0
	Aberdeen ...	1020·0	48	SSW	1	o	1007·4	-7	46	+3	SW	5	-	c	3	-	49	43	om	o	o.cq̲	0·0
	Leith	1024·4	47	WSW	2	o	1011·3	-10	47	+2	SW	4	-	o	*	-	47	44	oq̲.o	o.c.o	o	*
	Tynemouth ...	1025·9	45	WNW	3	om	1015·5	-6	46	+4	W	3	-	o	3	-	46	41	cm	cm	o	*
	Spurn Head ...	1027·3	39	WNW	4	c	1021·0	-3	42	+2	WSW	3	-	o	4	-	42	39	f	cm	om	0·0
	Yarmouth ...	1028·9	41	SW	1	orm	1023·7	-1	40	+6	SW	1	SW	om	1	1	42	33	om	om	om	0·0
	Clacton-on-Sea	1030·1	41	WNW	1	ogm	1024·9	-3	41	+5	WNW	1	-	ogm	1	0·2	41	35	om	ogdm	ogm	0·0
	Nottingham ...	1030·0	43	WSW	3	o	1022·2	*	44	+4	SW	4	SW	o	*	-	45	39	om	om	o.c	0·0
	Bath	1033·2	44	NW	1	o	1026·4	*	45	+5	W	2	W	o	*	-	46	40	m.oq̲	g.o	c.o	0·0
	London (Kew Obsy.)	1031·8	42	W	2	om	1026·8	-4	41	+5	SW	2	-	om	*	-	42	36	om	om	om	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	994·0	30	SE	7	o	997·6	*	27	+22	SE	9	*	o	*	*	30	5				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1013·3	14	S	6	b	1007·4	-3	18	-3	S	6	-	o	4	*	21	14				
	Bodö	995·7	27	E	6	o	996·8	0	30	0	ESE	5	-	s	2	2	32	25				
	Christiansund	1002·7	41	SE	4	r	1000·0	-7	39	0	SE	1	-	r	4	11	41	37				
	Skudesnaes ..	1016·6	43	W	4	r	1008·2	-3	43	+7	WSW	5	-	o	4	19	43	36				
	Færder (X'iania Fjord)	1014·1	36	SW	4	b	1007·4	-1	37	+7	WSW	5	-	o	3	2	37	28				
	The Scaw (Skagen)	1018·1	32	SW	6	o	1011·8	-3	41	+14	WSW	4	-	m	3	2	41	27				
	Blaavands Huk	1025·0	37	SW	4	r	1019·4	-2	39	+16	SW	3	-	m	3	1	41	21				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1028·7	39	S	2	o	1023·5	-3	43	+9	S	3	-	o	2	Trace	43	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1031·1	42	WNW	3	o	1026·6	0	44	+4	WSW	4	*	o	3	?	44	40				
	La Hève	1031·3	41	NNE	2	c	1028·6	*	41	0	W	3	*	o	3	1	45	37				
	Ushant	1037·1	48	N	5	o	1030·4	*	50	+4	NW	3	*	o	4	-	50	45				
	Brest (St. Mathieu)	1039·9	46	NNW	4	o	1032·4	-3	47	+6	NW	4	*	o	3	1	48	41				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1030·2	41	NE	2	o	1033·3	0	41		ESE	2	*	o	2	-	45	39				
	Paris	1032·6	39	ENE	1	c	1030·0	-2	37	+3	SE	2	-	o	*	-	41	32				
	Belfort	1034·1	25	-	0	o	1034·7	*	15		-	0	*	m	*	-	41	15				
	Lyons	1032·6	30	NNW	3	b	1032·7	*	28	-3	N	4	*	c	*	-	33	25				
	Nice	1021·9	37	NE	4	b	1023·3	+1	32	-4	E	4	*	b	2	-	45	28				
	Perpignan ..	1028·6	29	NW	5	b	1027·9	-1	39	+2	NW	4	N	b	*	-	43	37				
	Sanguinaire ...	1014·9	42	N	3	bc	1015·1	*	40	+1	E	2	*	b	3	-	52	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1040·3	50	NE	4	c	1039·3	-2	45	0	SSW	1	-	f	2	1	50	46				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1034·6	48	NNE	3	b	1036·4	0	41	0	N	3	-	b	2	-	60	41				
	Gibraltar							*					*		*							
	Rome														*							
	Azores (Horta, 8 a.m.)	1029·3	*	SE	5	o							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Stornoway

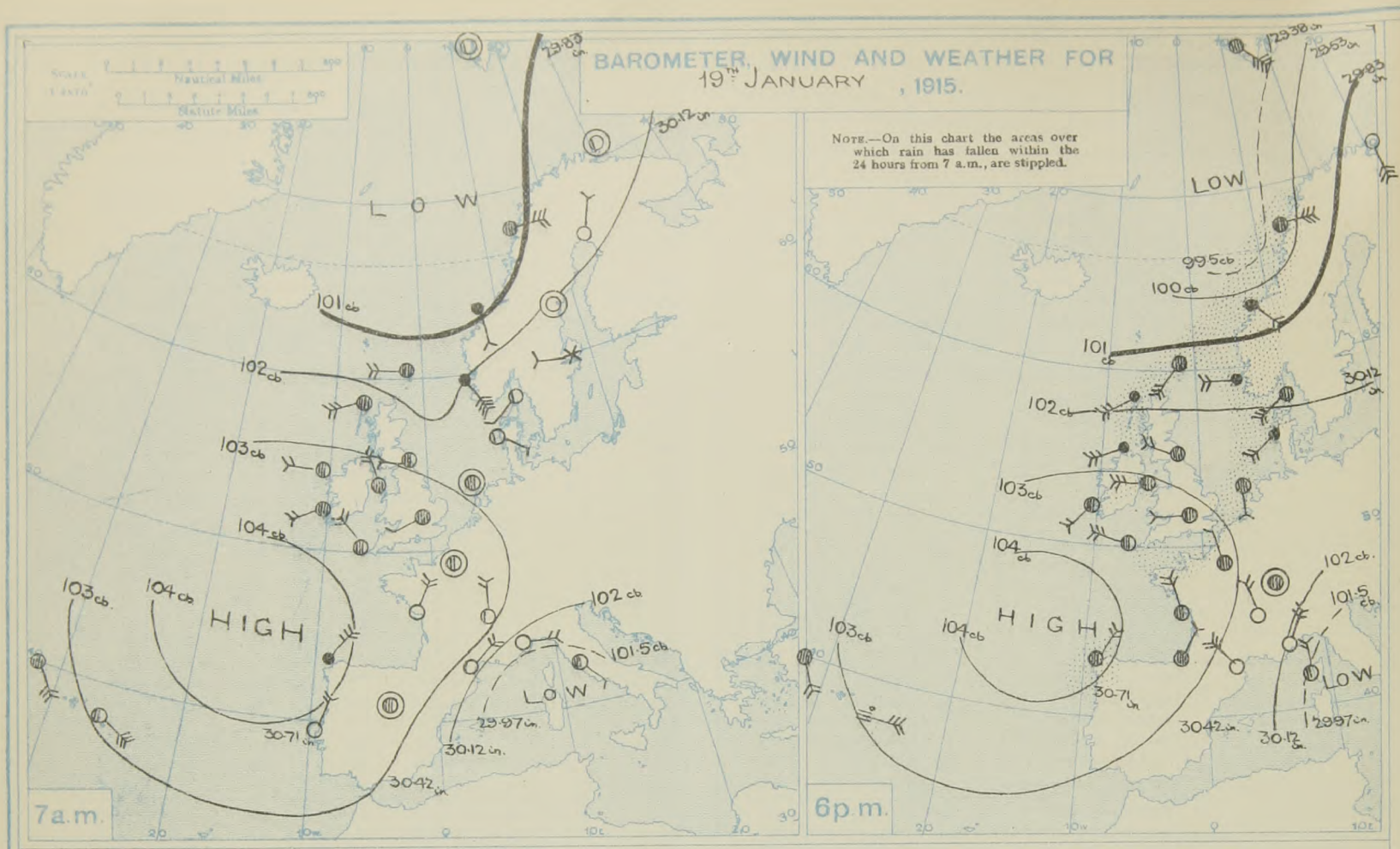
Squalls force 8

Nairn

19th 10 p.m. – 20th 4 a.m. WSW. 8

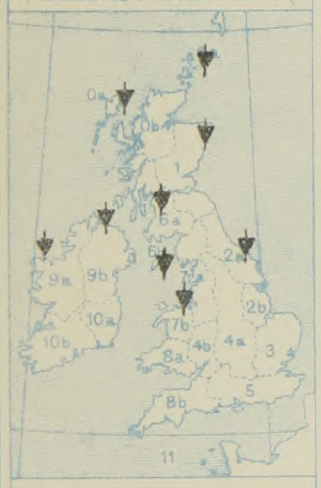
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 19TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones hoisted at 8.40 a.m.

Western Channel and Bay

0 {a b} 1 — South-Westerly to Westerly winds, increasing to a gale; unsettled, occasional rain; mild to-day, becoming cooler to-morrow.

2 {a b} 3 — South-Westerly winds, freshening; dull and misty at first, some rain later; continuing mild.

4 {a b} 5

6 {a b} 7 — South-Westerly to Westerly winds, increasing to a gale; dull, occasional rain, misty in places; mild to-day, becoming cooler to-morrow.

8 {a b} — Westerly and South-Westerly winds, increasing in force; dull, occasional rain; continuing mild.

9 {a b} — South-Westerly and Westerly winds, increasing to a gale; dull and rainy at first, improving later, but showers still probable; mild to-day, then rather cooler.

10 {a b} — South-Westerly to Westerly winds, increasing in force; dull and rainy at first, improving later, but showers still probable; mild to-day, then rather cooler.

11 — Westerly and South-Westerly winds, freshening, with a rough sea; mild, showery, misty in places.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 20TH JANUARY, 1915.

GENERAL INFERENCE.

The depression to the northward of Scotland is likely to extend southwards, and to occasion a general increase in the strength of the Westerly and South-Westerly wind, with mild, unsettled weather.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

L O W

H I G H

Barometer falling generally

Barometer

29.53 in. 29.68 in. 29.83 in. 29.97 in. 30.12 in. 30.27 in. 30.42 in. 30.56 in.

100 cb. 100.5 cb. 101 cb. 101.5 cb. 102 cb. 102.5 cb. 103 cb. 103.5 cb. 1005

Inches. 31 30 29

SCALE 1 : 2 x 10⁷
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 JANUARY.

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 ~

DAILY WEATHER REPORT.

Wednesday, 20th January, 1915.

REPORTS FOR YESTERDAY.

19th January 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Lisbon	1032·8	50	NNW	3	b	1035·7	0	41		N	3	–	b	¼	–	52	41
Rome	1012·2	45	S	1	0	1012·6	0	41		SE	1	–	c	*	–	54	39
Horta						1027·0		61		SE	6	*	c	5	–	63	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	48	39	og	og	0·0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	43	35	c.o	o	0·0
Eng. N.E.	Scarborough	*	45	36	o.c	o.c	0·0
Eng. N.E.	Skegness	–	45	35	o	o	0·0
Eng. N.W.	Morecambe	–	44	39	o	o	0·0
Eng. N.W.	Blackpool	–	45	41	o	o	0·0
Eng. N.W.	Southport	–	44	39	oc.c.o	o	0·0
Midlands.	Buxton	1	40	31	sr	sr	0·0
Midlands.	Leamington Spa	–	43	31	c	c	0·0
Midlands.	Malvern	1	45	36	c	c	0·0
Midlands.	Ross-on-Wye	–	40	36	o	o	0·0
Wales.	Rhyl	0·3	43	42	o	o	0·0
Wales.	Colwyn Bay	–	46	42	–	–	0·0
Wales.	Llandudno	0·3	44	44	oc	oc	0·0
Wales.	Aberystwyth	0·3	45	40	o.o.c	c.o.o	0·0
Wales.	Tenby	–	45	34	bc.o	bc	0·0
Wales.	Swansea	–	45	36	o	o	0·0
England. E.	Cromer	1	44	35	om.c	omd	0·0
England. E.	Lowestoft	2	41	35	of	o.c.o fc	0·0
England. E.	Felixstowe	1	42	32	omw	omp	0·0
England. E.	Walton-on-Naze	0·3	41	32	ogm	ogm.op	0·0
England. E.	Southend-on-Sea	–	41	32	om	o	0·0
England, S.E.	Tunbridge Wells	–	42	32	om	o	0·0
England, S.E.	Margate	0·3	42	36	omd	o	0·0
England, S.E.	Ramsgate	0·3	40	32	d	d	0·0
England, S.E.	Folkestone	–	40	34	o	o	0·0
England, S.E.	Hastings	–	43	33	o	o	0·0
England, S.E.	Bexhill-on-Sea	–	44	38	o	o	0·0
England, S.E.	Eastbourne	–	43	34	o	o	0·0
England, S.E.	Seaford	–	43	33	m	o	0·0
England, S.E.	Brighton	–	44	40	o.c.o	o	0·3
England, S.E.	Worthing	–	45	32	o	o	0·1
England, S.E.	Littlehampton	–	45	*	o	o	0·3
England, S.E.	Bognor	–	45	32	o	o	0·3
England, S.E.	Southsea	–	45	34	o	o.c	0·1
England, S.E.	Bournemouth	*	45	32	c.o	o	0·6
England, S.W.	Weymouth	–	45	34	bc.c	c	0·0
England, S.W.	Torquay	–	46	34	o	c.o	0·2
England, S.W.	Paignton	0·3	46	37	od	o	0·2
England, S.W.	Falmouth	–	47	37	bc	c.o	1·4
England, S.W.	Penzance	1	48	40	c	m	0·9
England, S.W.	Newquay	–	45	41	o.c.o	o	0·1
England, S.W.	Ilfracombe	–	46	40	o	o	0·0
England, S.W.	Weston-super-Mare	–	44	37	c	c.o	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.)	90	86	0·0	43	37	35	–	o2	o	o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	81	0·0	44	37	32	–	o	o	ome
Camden Sq. (Brit. Rainfall)	88	86	0·0	43	34	38	–	ogm.o	o	*
Hampstead (Reservoir)	*	88	0·0	41	30	28	–	o	o	o
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	83	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
? Joules	? Milliwatts.	? to Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	–	46	39	36	b.c	c.o	o	*
Darwen to 9 p.m.	2	42	36	34	od.w	od	ou.d	0·0
Manchester ,,	2	44	39	*	ofr	op	op	0·0
Birmingham ,,	–	43	36	32	*	o	o	0·0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	44	34	26	bc.b	o	o.qe	*

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

20th & 21st Jan. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·53	12·4	4·15
	7·52	12·4	4·16
Greenwich	7·56	12·11	4·26
	7·55	12·11	4·27
Wick	8·44	12·23	4·3
	8·42	12·23	4·5
Valencia	8·39	12·52	5·5
	8·38	12·52	5·6

NOTES ON YESTERDAY'S WEATHER.

Over the eastern parts of the United Kingdom the thermometer failed to reach 45°. Slight rain fell at several of the western and northern stations, and a gale was experienced locally early this morning in the north of Scotland.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 21

Thursday, 21st January, 1915

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	994·0	40	NW	3	bc	982·2	-5	42	-5	S	4	5	c	4	5	46	37	odq	bcq	c	*
	Deerness ...	996·6	39	SW	2	o	979·3	*	40	-5	S	3	—	orq	4	4	47	37	op.c.bc	bc.c.o	od.p	0·5
	Stornoway ...	998·0	39	W	4	bc	980·6	-4	36	-13	WSW	4	-	c	3	10	49	34	odp.bc.o	o.c.bcp	c/p.orq.c	0·0
	Castlebay (Barra Isd.)	1000·4	44	WSW	3	c	983·8	-1	38	-11	WNW	6	-	bc	6	6	49	35	op	op.hp.c	c.o/p.bc	0·0
	Glasgow ...	1001·1	44	WSW	4	o	983·5	-10	38	-6	WSW	2	—	r	*	4	47	37	dp.oq	odpq	bc.b.or	0·0
	Eskdalemuir ...	1002·8	41	SW	4	or	984·5	-12	37	-5	SW	3	-	o	*	10	45	36	or	orq	c.or.o	0·0
	Malin Head ...	1004·2	44	WNW	5	om	985·7	-7	40	-8	WNW	6	W	cq/p	6	4	48	36	cmq	om	cq/p	0·0
	Blacksod Point	1008·4	43	WSW	4	or	993·2	-1	40	-7	WNW	8	NW	o/p	6	8	50	37	odm	om	or.omp	*
	Valencia ...	1012·8	48	SW	4	m	999·3	+1	51	+2	WNW	6	-	bcpq	5	7	51	44	orm	opm	o/pq	0·0
	Roche's Point	1013·4	49	WSW	3	o	996·9	*	45	-3	NW	7	-	b	4	2	52	45	*op	o	o/p.b	*
	Birr Castle ...	1010·5	45	SW	1	o	‡ 993·6	*	41	-6	NW	5	-	o	*	6	50	40	od	od.o	or.oq	0·0
	Donaghadee ...	1004·2	44	W	5	cgmq	987·4	-6	40	-6	W	5	-	omp	3	2	50	39	ogpm	cgmq	bc.omp	*
	Liverpool (Bidston)	1007·8	46	WSW	5	o	988·1	-6	42	-3	WSW	4	-	o	4	3	50	40	od	og	or	0·0
	Holyhead ...	1009·1	43	W	5	om	989·5	-7	44	-2	W	6	-	cq	5	9	49	43	or.om	o.c.od	or.od.c	0·0
	Pembroke (St. Ann's)	1012·4	45	WNW	3	o	992·1	-4	45	-2	W	4	-	orm	4	11	47	45	cq/p	oq/r	oq/p	0·0
	Scilly (St. Mary's)	1017·5	49	WSW	6	odm	995·8	-9	48	+2	W	8	W	cq/p	6	6	50	45	cpq	odm	omq/r	0·0
	Falmouth ...	1016·9	48	WSW	5	r	994·1	-12	46	+1	WNW	5	-	rq	5	8	49	45	og	dm	dq.rq	0·1
	Jersey (St. Aubin)	1021·5	48	WSW	4	o	995·2	*	48	+3	WSW	5	-	odm	4	10	51	42	o.c.o	odp.o	od.r.od	0·2
	Portland Bill ...	1015·7	46	SW	5	od	993·1	-11	46	0	WSW	5	-	or	5	4	47	44	c	c.od	o.cd.r	*
	Dungeness ...	1016·8	46	W	5	og	993·0	-9	45	+2	WSW	3	-	r	3	8	47	40	o.c	c	c.o.or	*
	Dover	1016·8	45	SW	5	c	991·3	-10	43	+1	SW	4	SW	or	3	8	46	41	o.c	ce	ce.or	0·0
	Wick	998·2	39	W	2	o	980·1	-8	39	-6	SSW	4	-	r	4	0·3	45	35	omp.c	om.omp	b.omr	*
	Nairn	999·4	40	W	1	ow	980·6	*	36	-10	W	1	-	or	2	1	49	35	cgq	p.cg	c/p.w	0·5
	Aberdeen ...	999·8	41	W	1	o	982·2	-8	39	-7	S	3	-	od	2	2	48	37	o.bcq.o	op	o.b.od	0·0
	Leith	1001·6	46	WSW	3	o	982·6	-10	41	-6	WSW	3	-	o	*	-	51	40	oq.c.o	o.c.o	c	*
	Tynemouth ...	1004·7	47	SSW	1	bcm	986·4	-9	41	-5	S	2	-	ogm	3	1	49	40	om	om	oq/m.p	*
	Spurn Head ...	1006·5	42	SW	4	o	989·3	-3	40	-2	SW	3	-	or	4	2	44	39	o	o	or	0·0
	Yarmouth ...	1012·2	44	SW	2	orm	999·6	-8	42	+2	SW	1	-	omr	1	5	46	40	om	orm	omr	0·0
	Clacton-on-Sea	1014·3	43	SSW	4	ogr	991·5	-10	42	+1	SSW	2	-	ogr	2	5	44	40	ogm	ogrm	ogr	0·0
	Nottingham ...	1009·0	48	SW	3	o	989·1	*	42	-2	S	2	S	o	*	10	48	41	om	omp	or	0·0
	Bath	1014·0	48	W	3	r	991·8	*	45	0	W	2	W	r	*	6	50	44	d.o	r.o	od.	0·0
	London (Kew Obsy.)	1014·5	46	SW	5	o	991·7	-10	44	+3	SW	2	-	od	*	9	48	41	om.odmq	omd.r.o	0.or.od	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1002·4	24	ESE	7	S	1009·7	*	25	-3	S	6	*	bc	*	*	27	23				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1005·6	21	S	2	o	1004·3	0	14	-4	SE	1	-	o	3	*	21	10				
	Bodö	987·0	37	SE	6	c	986·2	0	32	+2	E	5	-	c	2	-	37	27				
	Christiansund	981·7	41	SW	1	c	989·9	0	39	0	S	2	-	o	5	35	41	36				
	Skudesnaes ..	997·5	43	SSW	4	m	986·7	-4	39	-4	SE	3	-	o	3	10	43	39				
	Færder (X'tania Fjord)	1000·7	37	SW	6	m	992·2	-3	37	0	S	7	-	m	4	2	37	36				
	The Scaw (Skagen)	1006·3	39	S	4	m	994·4	-3	36	-5	S	6	-	r	4	5	41	36				
	Blaavands Huk	1009·0	34	SW	4	o	995·0	-8	37	-2	SSW	6	-	r	5	6	41	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013·9	41	SSW	7	o	991·9	‡ -10	43	0	S	7	-	r	6	7	43	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1016·7	46	SW	6	o	993·2	-12	46	+1	SW	6	*	r	5	10	46	44				
	La Hève	1020·4	43	W	3	o	997·3	*	43	+2	W	4	*	r	4	10	45	41				
	Usbant	1021·0	50	W	5	o	997·6	*	50	0	W	6	*	r	7	10	52	41				
	Brest (St. Mathieu)	1022·6	47	W	4	o	999·1	-1	49	+2	W	6	*	r	4	9	50	45				
	Rochefort (Ile d'Aix)	1026·9	47	WNW	3	o	1005·5	-13	48		WSW	6	*	r	*	9	48	43				
	Biarritz												*									
	Paris	1023·0	41	S	2	o	1000·2	-15	43	+6	SSW	4	-	r	*	6	43	37				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ..	1023·9	45	NW	4	o	1012·6	-8	48	+9	NW	2	NW	o	*	-	45	39				
	Sanguinaire ...	1013·2	43	N	4	bc	1004·2	*	39	-1	N	5	*	m	4	-	52	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034·9	50	N	2	o	1019·9	-14	50	+5	SW	4	-	r	3	1	50	45				
	Madrid (8 a.m.)	1028·6	46	NNW	3	b	1021·9	-5	32	-9	-	0	-	o	*	-	48	28				
	Lisbon (8 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1036·3	*	SSE	5	c							*									
	Madeira (Funchal) †	1032·0	59	E	4	c *	1032·0	0	54	-3	NE	4	N	bc	4	—	61	54				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
20th 9a.m.-2p.m. SW. 8

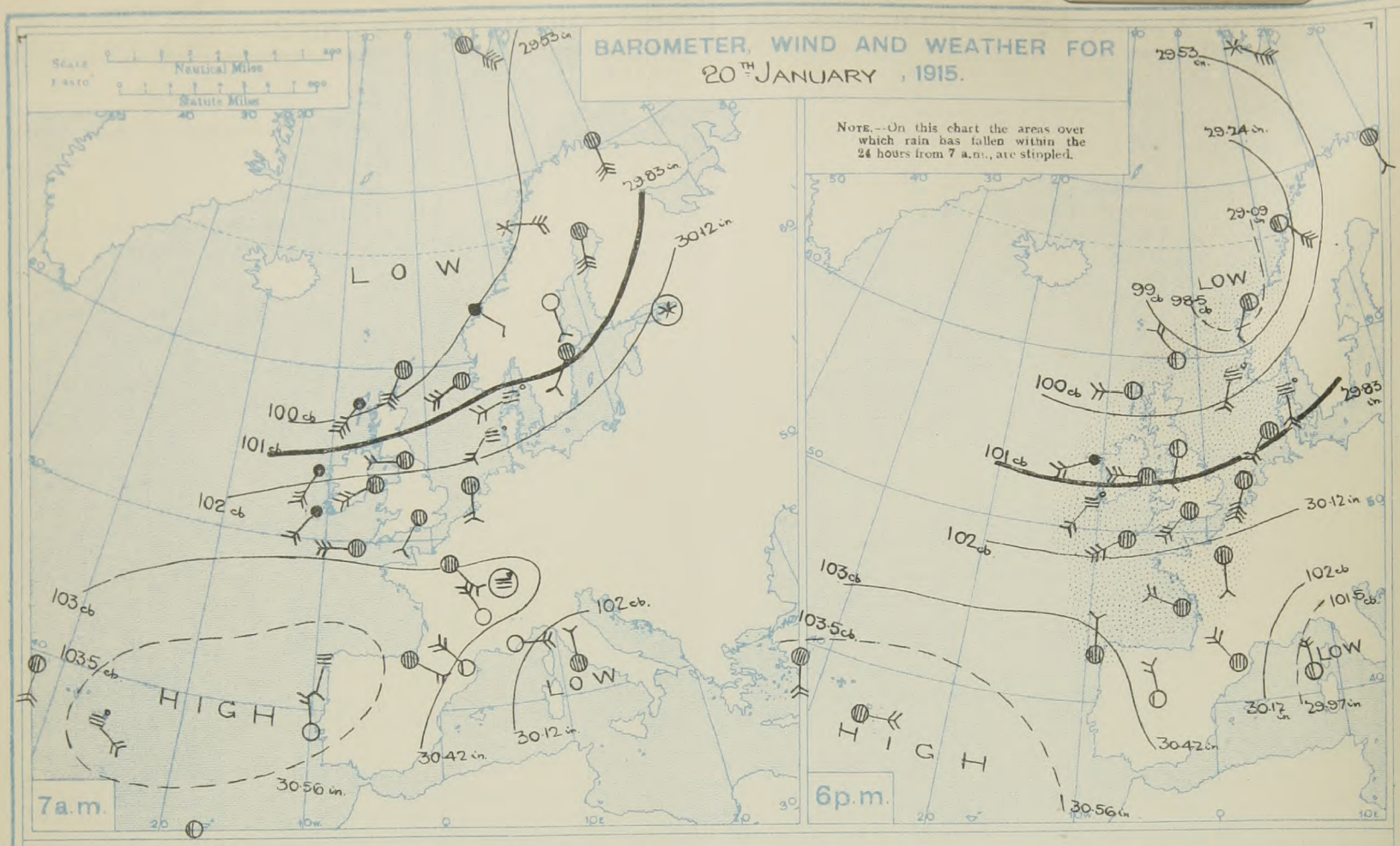
Eskdalemuir
20th 9a.m.-11a.m. SW. 8

Malin Head
Midnt.-7a.m. WSW. 8

Scilly.
21st. 4a.m.-7a.m. W. 8

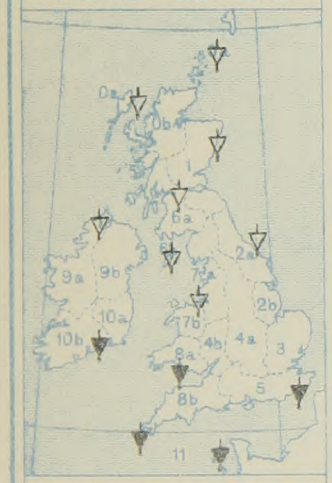
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 20TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



0 {a b} Freshening South-Westerly to North-Westerly winds; rainy at first, improving later, but hail or sleet showers probable in places; cold.

1

2 {a b}

3 } Freshening South-Westerly to Westerly winds; rainy at first, improving later, but showers still probable; becoming colder.

4 {a b}

5 Increasing South-Westerly to Westerly winds, strong to a gale on coast; rainy at first, improving later, but showers still probable; becoming colder.

6 {a b} } Strong Westerly and North-Westerly winds, a gale in places; changeable, some showers, hail or sleet in places; cold.

7 {a b}

8 {a b}

9 {a b}

10 {a b} } Strong Westerly to North-Westerly winds, a gale in places with a rough sea; changeable, showery, fine intervals; becoming colder.

11

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones hoisted to-day at 8·40 a.m.

Western Channel and Bay

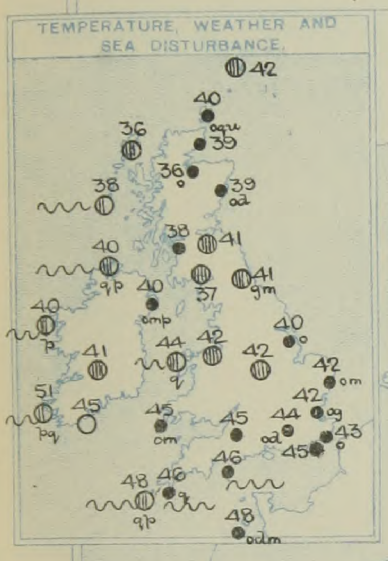
FURTHER OUTLOOK.

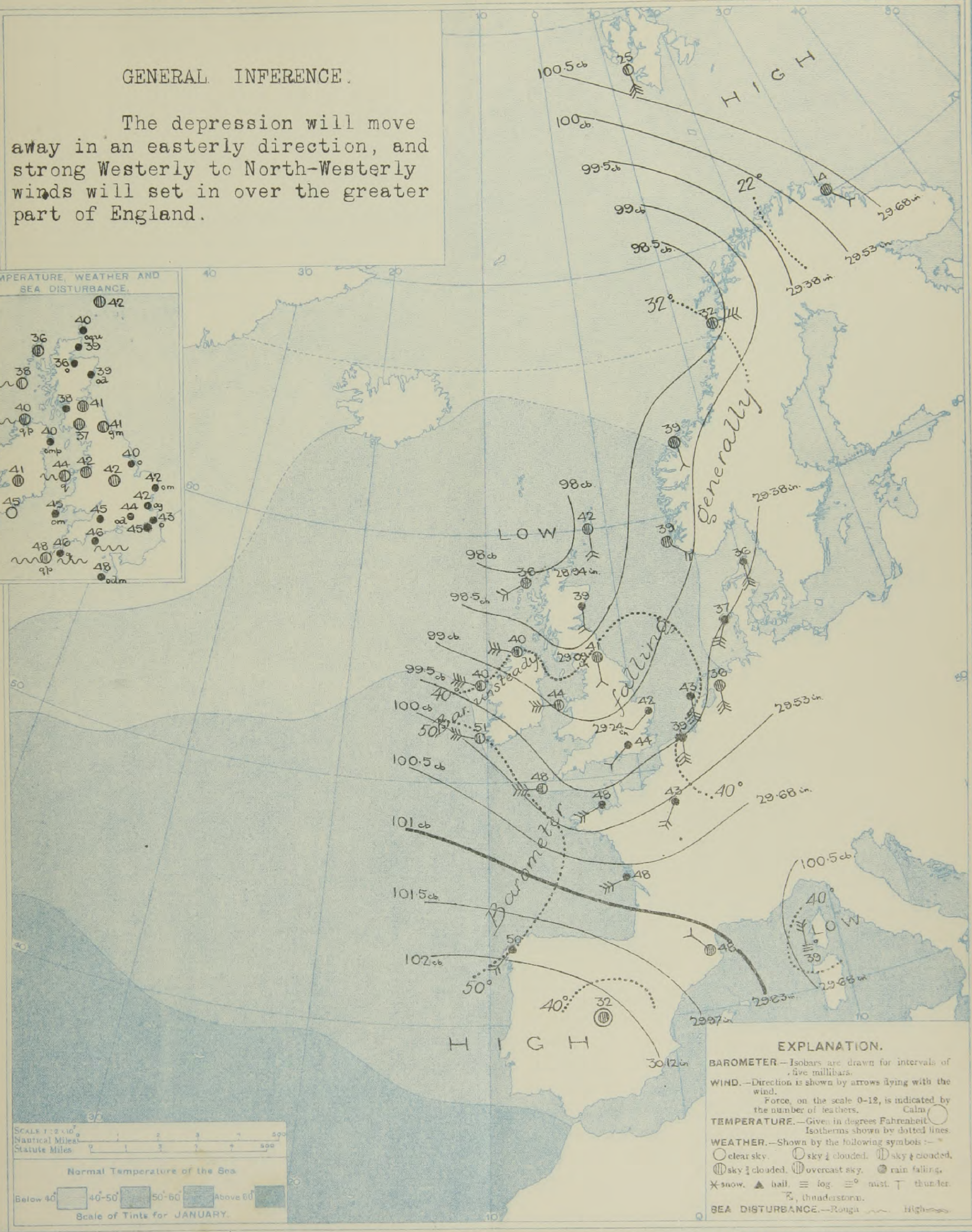
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 21st JANUARY, 1915.

GENERAL INFERENCE.

The depression will move away in an easterly direction, and strong Westerly to North-Westerly winds will set in over the greater part of England.





DAILY WEATHER REPORT. Thursday 21st January 1915.

REPORTS FOR YESTERDAY.

20th January 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Blacksod	1030·5	45	WSW	3	c	1014·8	-7	47	+3	SW	5	–	odr	5	3	53	38
Haparanda	1016·4	-9	N	2	fr	1005·5	-3	12	+16	SSE	6	–	o	*	1	12	-11
Hernösand	1013·7	23	NNE	2	o	1003·7	-1	19	+16	S	2	–	fr	*	1	23	1
Stockholm	1021·1	12	S	2	o	1008·8	-4	30	+14	SW	2	–	o	s	*	30	-10
Wisby	1024·7	25	SSE	4	fr	1014·0	-5	34	+7	SW	6	–	s	*	3	34	21
Karlstad	1016·7	28	SSW	4	s	1008·0	0	36	+36	–	0	–	s	*	10	36	0
Petrograd	1019·3	-9	W	2	c	1021·0	+1	-4		WNW	1	–	s	*	–	-4	-11
Madrid	1033·6	37	N	4	fr	1032·3	-1	41	+5	–	0	–	s	*	5	43	32
Rome	1016·2	39	NE	1	fr	1015·8	0	39	-2	N	2	–	o	+	–	46	37
Funchal	1031·5	61	E	4	fr	1032·2	0	57	0	?	?	–	fr	?	–	63	52

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	1	?	40	c. fr. o	odr	0·1
Scotland.	St. Andrews	–	50	44	*	*	0·0
Eng. N.E.	Harrogate	1	46	42	o	or	0·0
Eng. N.E.	Scarborough	*	46	40	o	o	0·0
Eng. N.E.	Skegness						
Eng. N.W.	Morecambe	1	46	43	o	o	0·0
Eng. N.W.	Blackpool	0·3	46	40	odc	o	0·0
Eng. N.W.	Southport	1	47	44	op.c	or.c.o.c	0·0
Midlands.	Buxton						
Midlands.	Leamington Spa	0·3	47	37	c	c	0·0
Midlands.	Malvern	–	48	44	c	c	0·0
Midlands.	Ross-on-Wye	–	48	41	o	o.oqc	0·0
Wales.	Rhyl	1	51	43	or	or	0·0
Wales.	Colwyn Bay	2	50	43	p	p	0·0
Wales.	Llandudno	1	48	45	c	c	0·0
Wales.	Aberystwyth	5	47	43	o.or	or	0·0
Wales.	Tenby	3	50	42	bc.op	r	0·0
Wales.	Swansea	6	48	43	m.r	r	0·0
England. E.	Cromer	1	45	41	o.c	o.or	0·0
England. E.	Lowestoft	1	44	40	o	or	0·0
England. E.	Felixstowe	1	44	36	om	or	0·0
England. E.	Walton-on-Naze	1	43	36	ogm	ogm.or	0·0
England. E.	Southend-on-Sea	1	44	40	om	om	0·0
England. S.E.	Tunbridge Wells	1	45	34	om	o.or	0·0
England. S.E.	Margate	1	46	38	o	o	0·0
England. S.E.	Ramsgate	1	43	38	o	or	0·0
England. S.E.	Folkestone	–	44	36	o	o	0·0
England. S.E.	Hastings	–	47	40	o	o	0·0
England. S.E.	Bexhill-on-Sea	–	45	39	o	o	0·0
England. S.E.	Eastbourne	–	47	41	o	or	0·0
England. S.E.	Seaford	–	46	41	o	o	0·0
England. S.E.	Brighton	0·3	46	39	om.o	or.o	0·0
England. S.E.	Worthing	–	52	40	o	o	0·0
England. S.E.	Littlehampton	0·3	47	*	o	o	0·0
England. S.E.	Bognor	0·3	47	40	o	op	0·0
England. S.E.	Southsea	1	47	39	o	or.o	0·0
England. S.E.	Bournemouth	–	47	39	o	odc	0·0
England. S.W.	Weymouth	–	48	42	oc	oc	0·0
England. S.W.	Torquay	?	49	43	o	o	0·1
England. S.W.	Paignton						
England. S.W.	Falmouth	2	49	43	og	d	0·1
England. S.W.	Penzance	5	50	45	or	orm	0·0
England. S.W.	Newquay	3	48	46	o	opd	0·0
England. S.W.	Ilfracombe	3	49	45	o	or.u.d	0·0
England. S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	89	94	0·0	47	43	40	8	o	o.or	or
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	95	0·0	49	?	40	9	om	o.or	or.oc
Camden Sq. (Brit. Rainfall)	87	95	0·0	48	43	41	9	o	o,or	*
Hampstead (Reservoir)	*	98	0·0	46	36	34	8	c.or	or	or
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	84	92	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
90 Joules	3·0 Milliwatts.	7 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	0·3	52	45	43	odq	oq	op	*
Darwen to 9 p.m.	4	45	41	40	od.u	ou.r	or	0·0
Manchester ,,	2	49	43	*	or	o	or	0·0
Birmingham ,,	–	47	41	39	*	o	or	0·1
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	47	42	39	o.om	o	o.or	*

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

Jan. 21st & 22nd 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·51 / 7·51	12·4 / 12·5	4·16 / 4·18
Greenwich	7·55 / 7·54	12·11 / 12·12	4·27 / 4·29
Wick	8·42 / 8·40	12·23 / 12·24	4·5 / 4·7
Valencia	8·38 / 8·37	12·51 / 12·53	5·6 / 5·8

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 50° or slightly above it in several isolated parts of the United Kingdom. Rain fell generally, and a gale from the Westward was experienced on exposed parts of our western and extreme northern coasts.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 22. {Friday, 22nd January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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).	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ..	982·7	42	E.	4	c	991·0	+2	40	-2	NE	2	-	cm	2	2	43	39	b	b	cmst	*
	Deerness ...	981·0	38	NW	2	cp	990·5	"	41	+1	N	3	N	bc	3	6	42	36	cp.c.bc	bc.cp	cp.c.bc	0·0
	Stornoway ...	984·5	35	N	6	cpcrq	994·6	+2	41	+5	N	5	-	cpq	5	24	41	34	c/p	cpcrq	cr.cpq	0·5
	Castlebay (Barraisd.)	987·8	41	NW	6	bc	997·1	+4	41	+3	NW	5	-	o	5	3	41	34	c.ce.p	csh/p	bc.cp.c	1·3
	Glasgow ...	982·9	33	W	1	b	992·1	+5	39	+1	WSW	1	NW	b	*	0·4	39	32	chp.b	bchp.b	bx	5·4
	Eskdalemuir ...	982·4	30	NW	4	b	990·6	+7	35	-2	N	3	-	b	*	2	37	29	o.c	c b	bc	3·1
	Malin Head ...	986·0	40	N	8	cphq	995·8	+5	40	0	NNW	8	-	cq/pm	8	5	45	34	cphq	cphq	cmq/p	1·7
	Blacksod Point	994·3	38	WNW	8	cpsq	1002·7	+5	39	-1	WNW	7	NW	cq/p	6	2	49	33	cpsmq	cpsmq	cq/p.qp	*
	Valencia ...	1000·0	41	NW	7	c	1004·4	+2	42	-	NNW	5	-	cq	6	5	46	40	cphq	chq	cq/p	0·5
	Roche's Point	997·3	39	NNW	5	bc	1001·0	*	38	-7	NW	6	-	b	4	1	45	37	cpq	cpq.bc	bq	*
	Birr Castle ...	993·3	35	NW	4	c	999·8	*	35	-6	NW	2	-	bc	*	4	41	33	c/po	cpo.cp	cpo.c	3·0
	Donaghadee ...	985·0	35	NW	5	cfpq	992·3	+4	42	+2	NW	8	-	cmq	6	5	42	29	cpsq	cpsq	cq/phs	*
	Liverpool (Bidston)	983·7	37	WNW	8	c	989·0	+5	39	-3	NNW	4	NW	cq	4	5	42	34	c.bcp	c.ohs	coq	0·9
	Holyhead ..	986·0	40	NW	7	cq	991·4	+6	43	-1	N	7	N	bq	4	10	44	36	cph.bc	c.bcph.	cph.bc	4·5
	Fenbroke (St. Ann's)	990·1	40	NW	6	c	992·2	+2	40	-5	NNW	7	-	cq/p	6	1	45	36	crm	cq	cq	2·9
	Scilly (St. Mary's)	994·3	43	NW	8	cpq	996·5	+1	42	-6	NNW	9	NW	cq/p	8	2	49	39	cmpq	cpq	cq/p	3·5
	Falmouth ...	992·5	41	NW	6	b	992·0	+2	40	-6	N	8	-	c	6	4	47	38	r.bchq	bchq	cq/ph	3·2
	Jersey (St. Anbin)	989·9	43	NW	5	bc	986·4	*	39	-9	NW	5	NW	c	4	5	50	37	cpm	bcp	bcl c/p	1·8
	Portland Bill ...	987·4	41	NW	6	b	986·6	+3	37	-9	NNW	5	NW	bc	4	9	47	35	r.cp	bcp	bcrq	*
	Dungeness ...	981·8	39	NW	5	cq	984·0	+2	28	-17	NW	2	NW	bc	2	4	45	27	crm	cr.c	c.bc.bc	*
	Dover	981·5	37	NW	C	c	984·9	+1	31	-12	W	1	NW	bcsc	3	4	44	29	cr.o	cp.c	c.bc.bc	0·0
	Wick	981·6	36	NW	1	c	990·9	+2	41	+2	NNW	3	-	o	4	5	42	35	cmr.o	cp.cm	cmp.d	*
	Nairn	982·7	33	W	1	bcsc	992·7	*	40	+4	W	2	-	cq	2	1	40	32	bc	r.bc	bcp.c	3·8
	Aberdeen ...	980·5	36	WNW	5	c	989·4	+4	40	+1	WNW	3	-	o	2	3	40	36	cr.o	cp.c	c.cp	0·0
	Leith	982·1	36	W	1	c	990·7	+5	37	-4	W	2	-	o	*	0·4	42	34	cp.c.b	b.bc.c	c.bc	*
	Tynemouth ...	980·6	35	NW	3	cm	987·0	+4	42	+1	N	3	-	cm	4	2	42	33	cm	cm	cq/mp.	*
	Spurn Head ...	980·2	40	NW	5	o	983·9	+2	40	0	NNE	4	-	c	4	1	43	34	crm	cq/p	cq cq	0·0
	Yarmouth ...	979·8	43	WNW	3	crm	981·3	+2	35	-7	NW	2	NW	cm	1	11	43	32	crm	cmr	cms	8·0
	Clacton on Sea	980·3	39	WNW	3	cgm	982·7	+2	32	-10	WNW	2	-	co	1	9	44	31	cgm	cgrm	o.bc.co	0·0
	Nottingham ...	983·0	36	NW	4	b	986·0	*	37	-3	N	5	N	o	*	2	43	29	cpm	o.c.b	b.s	0·0
	Bath	987·6	37	NW	3	bc	987·0	*	34	-11	NNW	1	N	s	*	2	46	33	r.o.c	o.c.bc	c.bc.co	1·7
	London (Kew Obsy.	984·2	38	NW	3	c	984·6	+3	33	-11	NW	2	-	s	*	1	46	32	od.cm	cm.cduc	c.bc bcmq	0·1
ICELAND, FAEROE, &c.	Spitsbergen ...	1015·1	10	SE	5	b	1016·4	*	5	-20	SE	6	*	b	*	*	26	3				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1002·0	27	SE	5	co	1005·0	+3	27	+13	SE	6	-	o	3	*	27	10				
	Bodö	993·2	36	E	2	c	993·5	0	34	+2	E	4	-	bc	2	-	37	30				
	Christiansund	990·3	37	-	0	b	992·3	+2	39	0	SW	1	-	o	4	-	39	36				
	Skudesnaes ..	983·9	39	SE	8	r	991·4	+1	36	-3	E	4	-	r	3	6	43	36				
	Faerder (Ytania Fjord)	993·2	32	SSE	6	s	996·7	0	32	-5	E	4	-	o	3	?	37	32				
	The Scaw (Skagen)	990·4	34	SSE	7	o	1003·5	+2	37	+1	SE	5	-	o	4	4	37	32				
	Blaavands Huk	985·6	32	SSE	6	s	987·4	-2	30	-7	ESE	3	-	bc	3	4	37	27				
	Haparanda ...	995·1	32	SW	2	o	1002·9	+2	32	+7	SW	6	-	s	*	1	34	25				
	Hernösand ...	998·1	34	SE	2	o	1002·0	0	30	-6	-	0	SE	s	*	1	37	27				
	Stockholm ...	1002·6	32	S	2	b	1001·7	0	32	-4	SSE	2	-	o	*	Trace	36	32				
	Wisby	1003·9	32	SSW	4	b	1001·1	0	34	+4	S	4	-	o	*	-	36	30				
	Karlstad	997·0	32	SSW	4	bc	999·0	+3	30	-4	E	2	-	o	*	3	30	26				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	979·5	39	SSE	4	r	982·0	+3	37	-6	ESE	2	-	o	1	10	43	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	981·3	39	WNW	7	r	983·8	+3	35	-10	NW	3	*	b	3	16	46	34				
	La Hève	988·7	41	NW	8	c	984·3	*	37	-6	?	3	*	o	3	5	43	36				
	Ushant	994·4	46	N	6	?	993·3	*	43	-7	N	8	*	c	7	2	50	41				
	Brest (St. Mathieu)	994·0	47	NNW	5	bc	993·0	0	45	-4	NNW	7	*	c	4	7	53	39				
	Rochefort (Ile d'Aix)	992·4	48	NW	7	c	989·9	0	41	-7	SW	6	*	bc	*	18	50	36				
	Biarritz	999·7	52	W	5	r	994·1	0	41		NW	6	*	r	6	32	52	39				
	Paris	982·9	45	W	3	r	986·4	+2	30	-13	SW	1	-	b	*	15	48	30				
	Belfort	990·6	29	ENE	4	m	989·0	*	32		WSW	2	*	o	*	-	32	28				
	Lyons							*					*		*							
	Nice	997·6	36	-	0	bc	988·6	-4	32		-	0	*	o	3	-	45	30				
	Perpignan ..	996·6	44	S	2	r	989·5	-6	41	-7	W	2	-	o	*	4	50	39				
	Sanguinaire ...	998·6	46	N	3	c	988·2	*	46	+7	E	4	*	s	3	-	52	34				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1010·3	41	W	3	r	999·2	+1	43	+11	W	4	NW	bc	*	Trace	46	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1039·0	*	E	1	c							*									
	Madeira (Funchal)	1030·7	63	NE	3	o	1026·6	-2	55	+1	NW	3	N	b	3	-	64	54				

GALES.

Duration and Extreme Force in British Islands.

Malin Head
21st 3 p.m. - 22nd - 7 a.m. N.8
21st 11 p.m. N.10

Blacksod Point
21st 1 p.m. WNW. 8
21st 6 p.m.

Donaghadee
21st 10 p.m. - 22nd. 7 a.m. NW. 8

Holyhead
21st 7 a.m. - 1 p.m. NW. 8
21st 9 a.m. NW. 9

Scilly
21st 8 a.m. - 22nd 7 a.m. NNW. 8 gust 31 mps at 7 p.m.

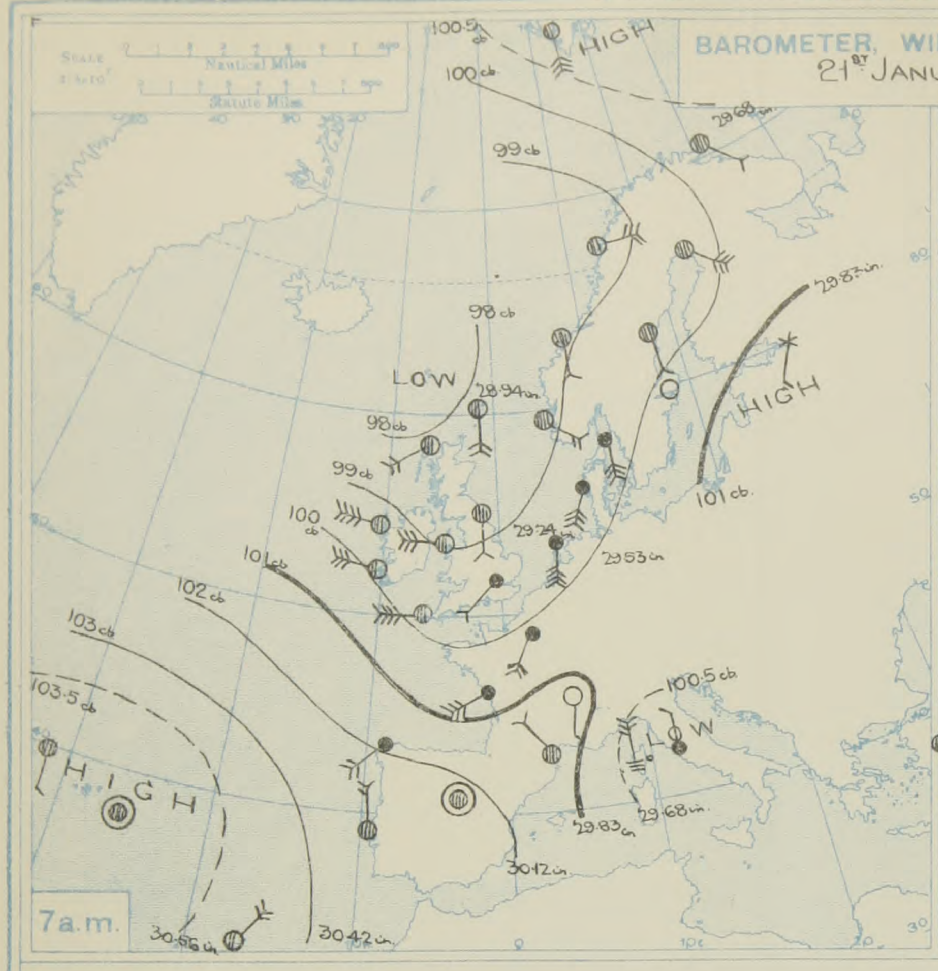
Kew
21st 2 p.m. NW. 8

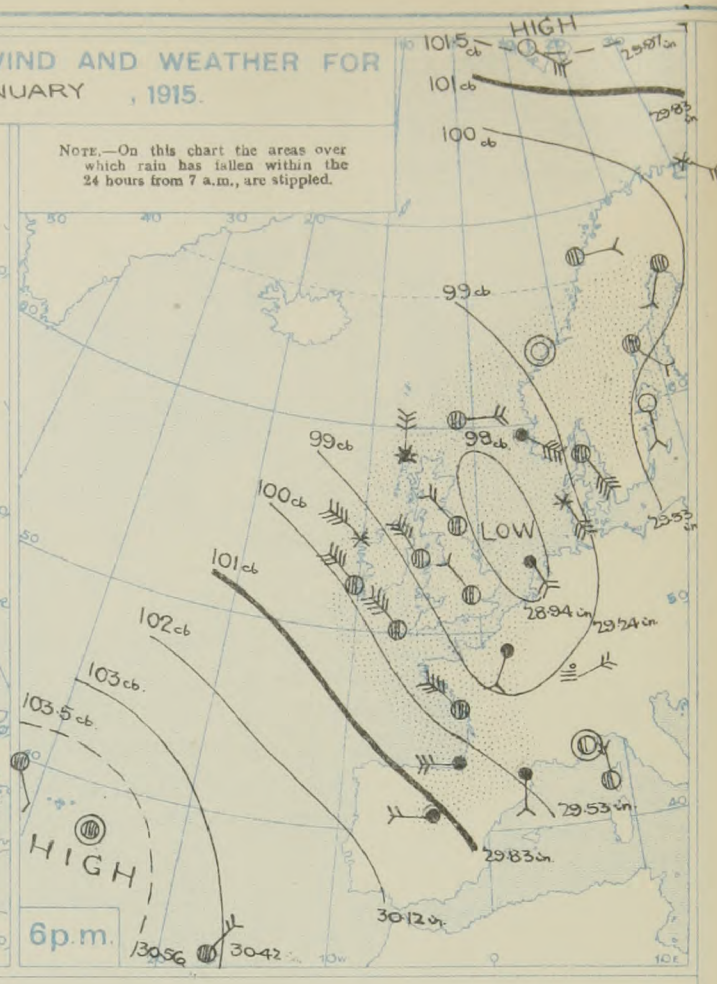
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 21ST JANUARY, 1915.

Scale 1:6,000,000
Nautical Miles
Statute Miles

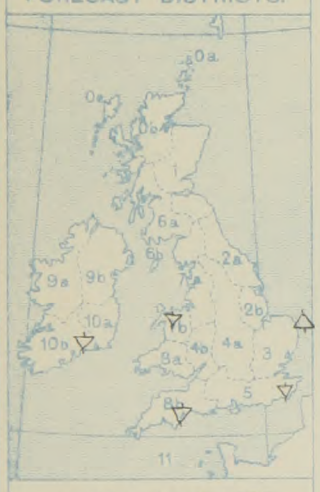
NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted yesterday at 8.40a.m in Dists. 5, 7b, 8 & 10;
North Cone hoisted yesterday at 3.10p.m in District 3.

0	a	Northerly winds, moderate or fresh; fair
	b	generally, but showers of hail or sleet locally;
1		remaining cold.
2	a	
	b	
3		Freshening North-Westerly winds; some snow
4	a	showers at first, improving temporarily later;
	b	
5		remaining cold.
6	a	Same as Nos 0 to 2.
	b	
7	a	Northerly or North-Westerly strong winds and
	b	
8	a	gales, moderating gradually later; changeable
	b	
9	a	some showers of hail or sleet, fine intervals;
	b	
10	a	remaining cold.
	b	
Western Channel and Bay	11	Strong and squally North-Westerly winds, and a rough sea; changeable, some showers, fine intervals; becoming colder.

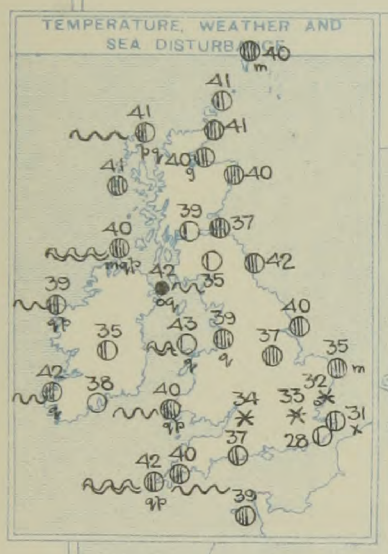
FURTHER OUTLOOK.

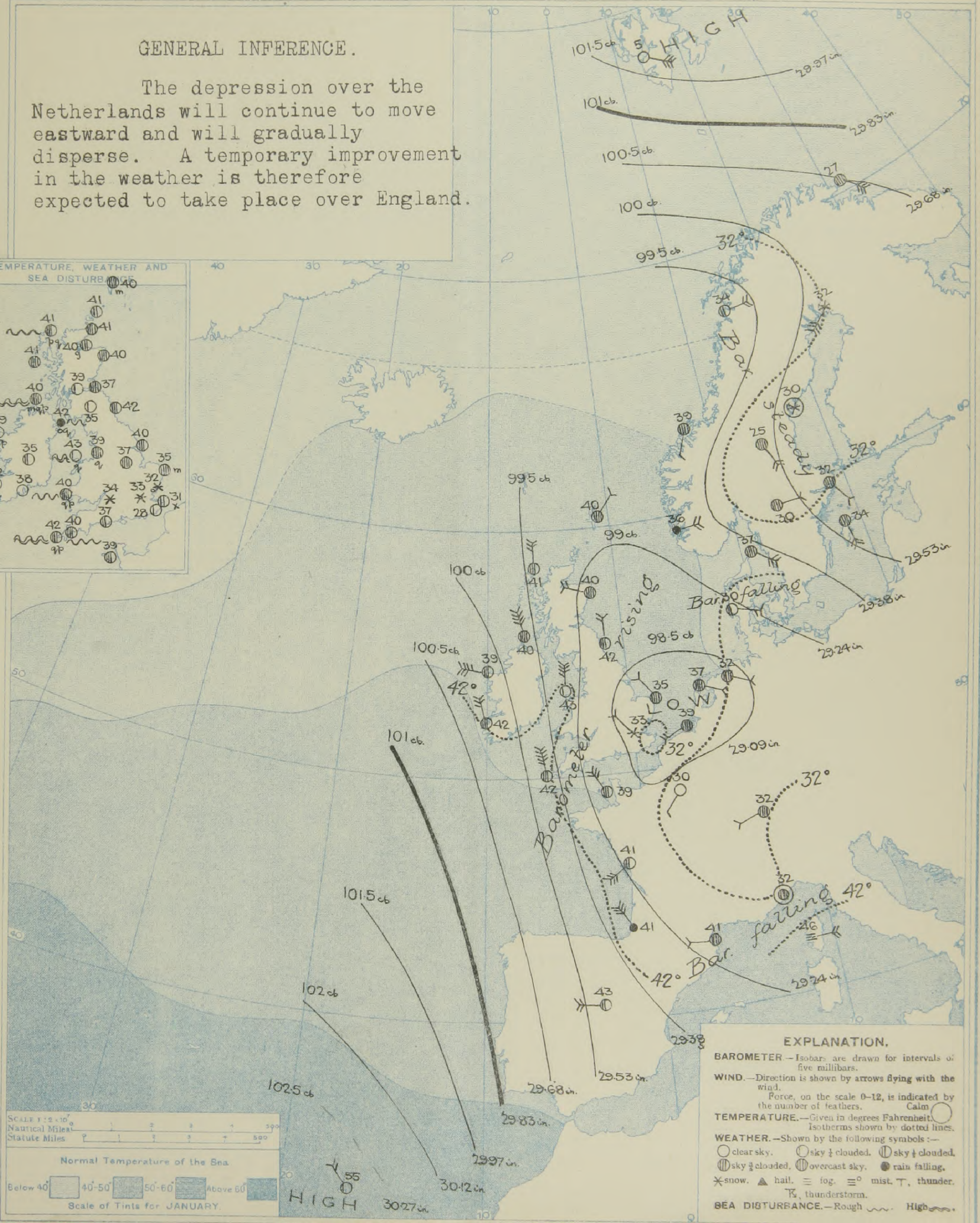
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 22ND JANUARY, 1915.

GENERAL INFERENCE.

The depression over the Netherlands will continue to move eastward and will gradually disperse. A temporary improvement in the weather is therefore expected to take place over England.





Mrs. Inches.
31
30
29

Scale 1 : 2 × 10⁶
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 JANUARY.

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 ~~.

DAILY WEATHER REPORT. Friday, 22nd January, 1915.

REPORTS FOR YESTERDAY.

21st January 1915

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. F.	Wind: Direc.	Wind: Force 0–12.	Weather.	Observations at 7 a.m. G.M.T.: 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1007.6	46	SE	4	0	999.3	-5	25	+13	SE	6	-	0	*	-	46	12
Hernösand	999.1	23	-	0	0	993.7	0	36	+17	SE	2	-	0	*	-	36	16
Stockholm	1005.9	37	WSW	2	0	1003.1	+1	36	+6	SSW	4	-	0	*	Trace	39	30
Visby	1012.4	28	SW	2	0	994.9	-2	30	-4	SSW	6	-	0	*	9	37	28
Karlstad	1004.6	36	-	0	0	997.6	-3	34	-2	SSW	6	-	T	*	Trace	37	32
Petrograd	1015.0	18	SE	3	5	1010.6	-1	28	+32	SW	1	-	5	*	2	28	-4
Lyons	1027.4	32	N	-	5	1014.7	*	36	+8	S	-	*	5	*	1	36	26
Lisbon	1032.2	50	NNW	3	bc	1027.7	-2	50	+9	NNW	3	-	0	1	-	54	41
Rome	1009.7	41	N	2	0	1003.4	+3	39	0	N	1	-	T	*	2	45	37
Horta						1034.0	+1	59		SSE	3	*	0	4	-	63	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	2	35	34	od	d.r	0.0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	40	31	o c	c. bc	1.8
Eng. N.E.	Scarborough	*	42	37	o	o§	0.0
Eng. N.E.	Skegness	5	42	37	od	od	0.0
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	6	47	36	or.c	c.ph.s	1.0
Eng. N.W.	Southport	5	41	33	or.g.o	ohsa.b	0.5
Midlands	Buxton	10	44	30	bcrs	s.bc	1.1
Midlands	Leamington Spa	7	45	?	or.op	c.op	0.5
Midlands	Malvern	12	44	35	c.bc	bc	2.7
Midlands	Ross-on-Wye	4	48	34	bc	bc.ph	2.2
Wales.	Rhyl	6	43	39			2.1
Wales.	Colwyn Bay	5	43	38	op.c.bc	bc.c	1.4
Wales.	Llandudno	1	48	41	c.ph	c.ph	?
Wales.	Aberystwyth	6	42	36	or.c	c.or	2.0
Wales.	Tenby	12	44	?	bc	bc.oh	4.0
Wales.	Swansea	10	44	36	ch	s.w	3.9
England. E.	Cromer	6	46	37	o.or	or.c	0.0
England. E.	Lowestoft	9	44	40	or	or	0.0
England. E.	Felixstowe	12	43	?	owr	or	0.0
England. E.	Walton-on-Naze	11	44	38	or	or.oc	0.0
England. E.	Southend-on-Sea	6	43	41	or	or.c	0.0
England. S.E.	Tunbridge Wells	9	44	37	or.o.od	or.o.c	0.0
England. S.E.	Margate	13	45	?	or	or	0.0
England. S.E.	Ramsgate	12	43	41	T	T	0.0
England. S.E.	Folkestone	10	46	38	or	or	0.0
England. S.E.	Hastings	10	47	38	or	or.bc	0.0
England. S.E.	Bexhill-on-Sea	4	45	?	or	or.c	0.0
England. S.E.	Eastbourne	15	46	40	or	op	0.0
England. S.E.	Seaford						
England. S.E.	Brighton	10	45	42	or	or.hor	0.1
England. S.E.	Worthing	8	?	36	d	c	0.3
England. S.E.	Littlehampton	6	47	34	or	o.bc.o	0.4
England. S.E.	Bognor	7	46	38	od	o.bc	0.5
England. S.E.	Southsea	6	46	?	od.c	bc.o	0.5
England. S.E.	Bournemouth	6	45	37	o.c	b	2.8
England. S.W.	Weymouth	7	46	39	bcp.c	bc.z	3.9
England. S.W.	Torquay	1	47	39	c	cph.bc	3.6
England. S.W.	Paignton						
England. S.W.	Falmouth	10	47	38	r.bcph	bcph	3.2
England. S.W.	Penzance	11	48	40	bcphr	bcph.c	3.2
England. S.W.	Newquay	13	46	38	bcpq	bcph	2.6
England. S.W.	Ilfracombe	8	49	40	o.c	c.bc.o	2.3
England. S.W.	Weston-super-Mare	6	49	42	bc.b	b	3.7

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 A.M. To-day.)	Temperature. In Screen. Min. °F. (24 hours ended 9 A.M. To-day.)	Temperature. Min. on Grass. °F. (24 hours ended 9 A.M. To-day.)	Rainfall. mm.§ (24 hours ended 9 A.M. To-day.)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.)	85	100	0.0	45	32	28	4	or	or.bc	bc.o o
City (Bunhill Row)	*	*	0.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	82	89	0.1	41	?	28	3	or	od	oc.bcmo
Camden Sq. (Brit. Rainfall)	92	93	0.3	46	30	24	1	oh.o	or.bc.o	*
Hampstead (Reservoir)	*	86	0.3	44	25	15	2	or	or.c	or
Richmond Park	*	*	0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	54	88	0.2							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
126 Joules	4.1 Milliwatts.	20 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall. mm §	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	6	46	34	*	or	o.c.o	ohs.c.bc	0.7
Birmingham ,,	13	42	32	29	*	r	rsh.s	0.1
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	9	48	39	42	or	od	org.o	*

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

Jan 22nd & 23rd 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.51 / 7.50	12.5 / 12.5	4.18 / 4.20
Greenwich	7.54 / 7.53	12.12 / 12.12	4.29 / 4.31
Wick	8.40 / 8.39	12.24 / 12.24	4.7 / 4.9
Valencia	8.37 / 8.36	12.63 / 12.53	5.8 / 5.10

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 45° and upwards at most of our western and southern stations, and touched 50° at Jersey. Rain, hail or sleet fell generally, and a gale from the North-Westward prevailed on several parts of our western coasts.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 23

Saturday, 23rd January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning	Afternoon	Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours
BRITISH ISLANDS.	Lerwick ...	991.9	41	E	4	om	993.7	+5	41	+1	SE	2	-	om	2	6	41	38	omd	or	ow.r.d	*
	Deerness ...	990.5	40	N	3	op	9986	*	37	-4	ENE	1	SE	bc	1	3	42	37	bc.cp.c	cp.o	op.bc.bc	0.0
	Stornoway ...	994.3	37	NW	4	op	1001.0	+4	32	-9	N	2	-	b	2	9	41	32	or.epq	opr	opq.b	0.0
	Castlebay (Barra Isd.)	995.0	38	NW	3	o	1000.8	+1	37	-4	N	1	-	b	1	1	41	35	c	c	bp.bc.b	0.0
	Glasgow ...	993.6	36	W	2	c	999.4	+5	32	-7	-	0	-	b	*	0.1	42	31	c.o.bc.b	b.bc.cp	c.o.bcq	3.4
	Eskdalemuir ...	993.4	32	NNW	1	b	998.5	+5	33	-7	N	4	-	bc	*	-	41	26	bc.c	c.b	b.bc	6.1
	Malin Head ...	995.8	40	NW	4	c	1000.3	+5	39	-1	NE	6	N	cq	6	1	41	36	cq	cq	op	0.0
	Blacksod Point	998.3	39	WNW	4	obd	1004.2	+2	37	-2	WNW	6	NW	bcqp	5	3	45	35	cm	omd	omdqp	*
	Valencia ...	1002.4	44	NW	2	o	1004.0	+6	42	0	N	6	-	c	6	3	47	40	cp	o	cqp	0.0
	Roche's Point	1002.4	40	NW	3	c	1000.8	*	36	-2	NNW	4	NE	c	2	1	43	36	b.bc.c	c	op.b.bc	*
	Birr Castle ...	1000.0	38	WNW	1	o	1001.7	*	38	+3	NW	2	NW	bc	*	4	39	33	o	o	or.bcc	0.0
	Donaghadee ...	994.8	39	NNW	5	cpmq	998.6	+6	40	-2	NNE	3	N	cq	3	1	43	35	cpmq	cpmq	cpo.cq	*
	Liverpool (Bidston)	993.8	41	NW	3	c	996.1	+5	37	-2	N	1	-	o	1	-	42	36	o.bc	bc.o	o	4.3
	Holyhead ...	995.7	42	NNW	6	o.	997.1	+4	42	-1	NE	4	NE	c	3	3	46	41	bc.cph	op.or.o	cph.c	2.3
	Pembroke (St. Ann's)	996.4	41	N	4	bc	9948	+2	39	-1	NNE	2	-	cqp	2	1	43	36	oqp	cq	bc	1.1
	Scilly (St. Mary's)	995.7	43	NNW	7	cpq	992.3	+3	38	-4	ENE	4	-	mr	4	8	45	38	cq	cpq	cqp	1.1
	Falmouth ...	997.4	42	N	6	o	9932	+2	34	-6	N	3	-	o	3	8	43	33	rhq.oq	opha	bcp.h	0.1
	Jersey (St. Aubin)	990.7	44	NNW	6	oq	9901	*	37	-2	E	5	SE	c	4	21	46	35	sh.cor	or.oq	c.ohr.c	0.3
	Portland Bill ...	991.3	40	NNW	5	b	9911.2	0	36	-1	E	5	N	cp	5	4	43	36	cp	bc	or	*
	Dungeness ...	989.7	35	NW	1	bx	?	+3	34	+6	ESE	1	-	b	2	-	44	28	bc	bc.b	bc.bca	*
	Dover	991.2	33	-	0	b	995.1	+1	31	0	S	1	-	bcq	2	0.2	38	30	x.bc.c	bx.q	bcqa	3.3
	Wick	991.3	35	WNW	1	o	9983	+5	36	-5	WNW	1	-	c	3	1	43	32	om	om	bcp.cm	*
	Nairn	992.5	38	W	1	od	999.5	*	36	-4	-	0	-	bc	1	0.3	41	35	bc.c	cq	cq	2.1
	Aberdeen ...	991.4	39	WNW	3	bc	9988	+4	36	-4	WNW	4	-	c	2	1	42	35	cp.bc	cp.bc	bc.c	2.6
	Leith	9934	38	W	1	b	9985	+3	34	-3	W	1	-	bq	*	-	44	33	o.c.bc	bc.b	bc	*
	Tynemouth ...	991.1	39	NW	2	opm	996.4	+3	39	-3	NNW	3	-	or	4	3	42	37	omr	omr	or	*
	Spurn Head ...	990.2	40	N	5	r	994.2	+2	40	0	NNE	2	NE	c	4	3	42	38	o.cp	or	or	0.0
	Yarmouth ...	989.9	35	SSW	2	om	994.6	+4	31	-4	S	2	-	bcw	1	2	41	29	omr	om	c.bca	0.0
	Clacton-on-Sea	990.0	36	SSW	2	bc	994.2	+2	21	-11	SSW	1	-	oms	1	7	36	18	ogs	o.bc	bc.bma	0.0
	Nottingham ...	991.6	40	N	3	c	994.3	*	38	+1	NE	3	NE	d	*	1	43	36	o.c	c	c.o	0.6
	Bath	992.7	41	N	1	o	9940	*	36	+2	E	3	-	r	*	2	43	33	s.o.c	o.c.bc	o.bcm	0.1
	London (Kew Obsy.)	990.8	36	NNE	2	orm	994.4	+4	30	-3	-	0	-	f	*	29	38	27	omfs.frs	frs.orm	omr.omfs	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö ... † ...	1006.4	27	SE	7	o	1003.0	-2	28	+1	SSE	2	~	○	5	*	28	19				
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (Xtiania Fjord) †	1000.2	34	ME	2	o	1003.8	+2	34	+2	ENE	2	-	o	1	-	34	32				
	The Scaw (Skagen)																					
	Blaavands Huk †	993.1	34	SE	2	m	997.9	+3	32	+2	ESE	2	-	o	2	-	34	27				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (3 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	991.0	39	SSW	2	c	994.6	+1	39	+2	W	1	-	o	1	-	41	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	991.0	35	SSE	3	b	994.1	+2	31	-4	SE	3	*	b	2	-	41	30				
	La Hève	990.4	34	ENE	2	m	9928	*	28	-9	ESE	2	*	m	2	-	41	27				
	Ushant							*					*									
	Brest (St. Mathieu)												*									
	Rochefort (Ile d'Aix)	991.7	41	NW	4	o	989.9	-3	37	-4	NNE	4	*	o	*	1	50	37				
	Biarritz	996.4	47	NW	6	o	9936	-4	48.	+7	NW	6	*	r	7	5	48	41				
	Paris	991.8	34	ESE	1	o	993.3	0	27	-3	ENE	1	-	b	*	-	36	27				
	Belfort							*					*		*							
	Lyons	991.9	32	NW	1	b	991.8	*	28		NNW	2	*	o	*	-	40	28				
	Nice	986.7	37	-	0	bc	982.3	-5	39	+7	-	0	*	o	4	2	39	32				
	Perpignan ..	991.9	41	NW	3	b	?	0	41	0	NW	4	NW	c	*	-	45	34				
	Sanguinaire ...	983.7	46	E	2	m	984.2	*	42	-4	N	5	*	f	5	16	54	34				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1036.0	*	NNE	3	o							*									
	Madeira (Funchal)												*									

GALES.

Duration and Extreme Force in British Islands.

Malin Head
22nd 7a.m-3a.m N. 8

Valencia
23rd. 1a.m-3a.m NW. 8

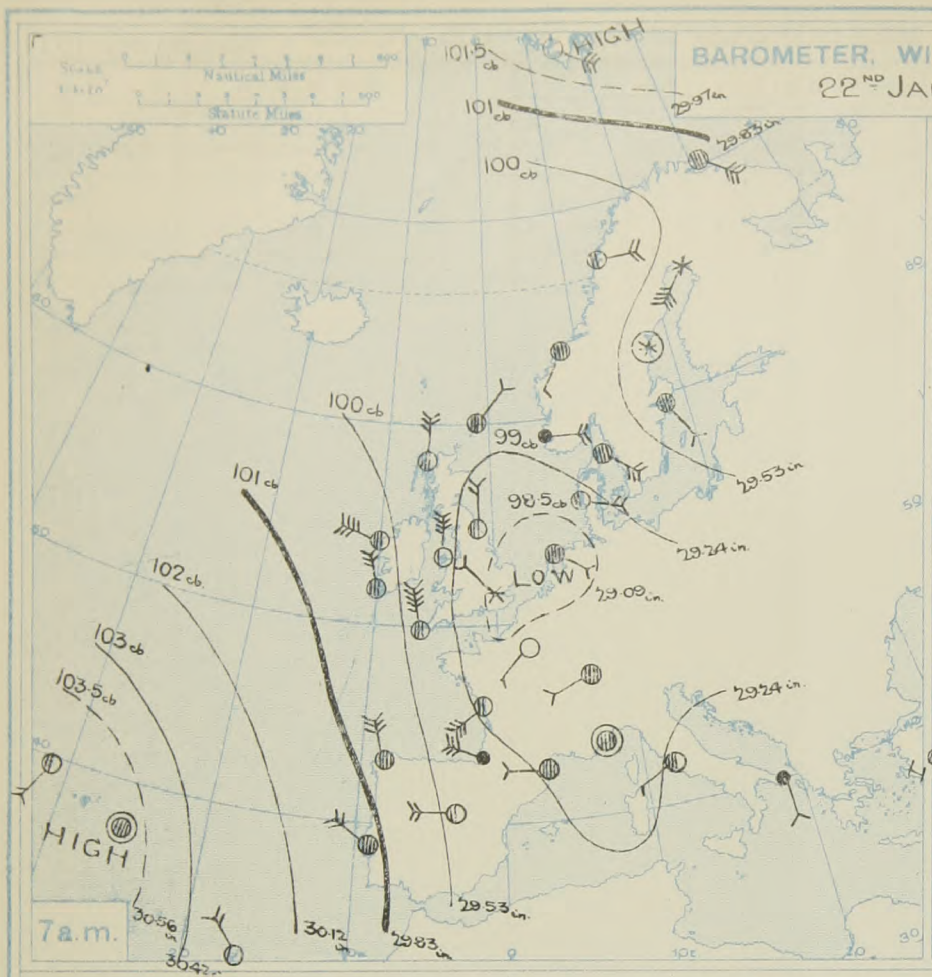
Donaghadee
22nd. 7a.m-10a.m NW. 8

Holyhead
22nd. 2p.m NNW. 8

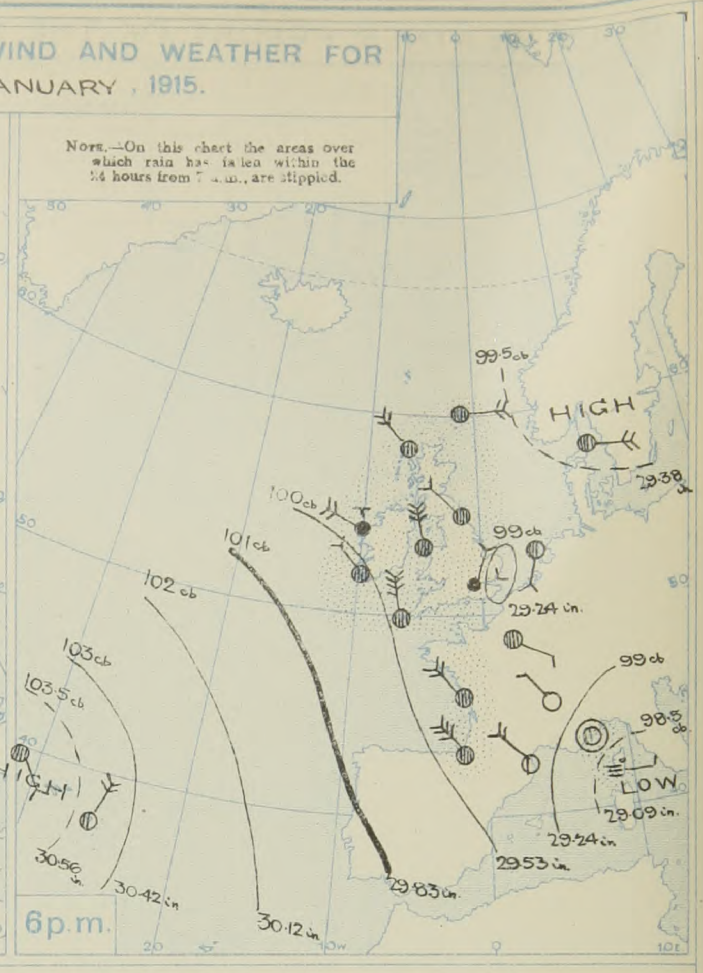
Scilly.
22nd. 7a.m-4p.m NNW. 8
23rd. 4a.m. WNW. 8

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

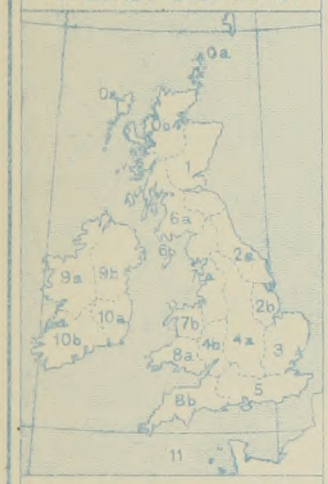
BAROMETER, WIND AND WEATHER FOR 22ND JANUARY, 1915.



Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued

Western Channel and Bay 11

0 {a b} 1 — Variable breezes between North-West, North-East and East; generally fair to fine, some rain or sleet showers; cold.

2 {a b} 3 4 {a b} 5 — Light variable breezes, mainly Easterly to Northerly; generally cloudy to dull, some rain or snow, local mist or fog; cold.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} — Light to moderate North-Easterly and Easterly breezes; cloudy to fair, some rain or sleet; cold.

9 {a b} 10 {a b} — Moderating Northerly breezes; cloudy to fair, local passing showers; cold.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

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SYNOPTIC CHART FOR 7 a.m., SATURDAY, 23RD JANUARY, 1915.

GENERAL INFERENCE.

The pressure changes favour the continuance of changeable cold weather.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

HIGH

Barometer 40°

40°

29·53 in.

29·38 in.

32°

29·24 in.

29·09 in.

100 mb.

99 mb.

99·5 mb.

98·5 mb.

rising

falling

LOW

Scale 1:12×10⁶
Nautical Miles 0 1 2 3 4 5 600
Statute Miles 0 1 2 3 4 5 600

Normal Temperature of the Sea.

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

Scale of Tints for JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Saturday, 23rd January, 1915.

REPORTS FOR YESTERDAY.

22nd January 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Coruna	1012·2	54	N	6	o	1008·8	-1	52	+2	NNW	6	-	o	5	21	55	50
Lisbon	1018·9	54	W	4	r	1013·0	-2	52	+2	WNW	4	-	o	6	6	55	50
Rome	994·6	43	N	1	o	991·1	+10	46	+7	WSW	1	-	c	*	Trace	48	39
Horta						1037·7	-2	54	-5	-	o	*	o	2	-	61	52

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	15	42	35	r.c/p	bc/p.o	0·1
Scotland.	St. Andrews	-	45	32	*	*	1·8
Engd. N.E.	Harrogate	2	41	39	c.bc	c.obc	1·3
Engd. N.E.	Scarborough	*	45	34	c.b	c.b	1·2
Engd. N.E.	Skegness	5	42	32	r	r	0·0
Engd. N.W.	Morecambe	-	43	33	bc.b	b.bc	3·4
Engd. N.W.	Blackpool	-	42	34	bc	c	4·0
Engd. N.W.	Southport	1	42	33	o.c.bc	c.o.bc	4·0
Midlands.	Buxton						
Midlands.	Leamington Spa	1	41	30	c	c	0·1
Midlands.	Malvern	5	40	31	bc	bc.b	3·0
Midlands.	Ross-on-Wye	1	43	32	bc	bc	1·7
Wales.	Rhyl	3	43	33	b	b	2·6
Wales.	Colwyn Bay	2	45	36	or.c bc	bc.bc.o	0·8
Wales.	Llandudno	-	46	36	c	bc	3
Wales.	Aberystwyth	7	42	34	o.c	or.r	1·7
Wales.	Tenby	6	43	32	bc.op	cp.o	3·3
Wales.	Swansea	12	45	30	b	p.u	5·7
Engd. E.	Cromer	2	41	33	o.cd	o.cmd	0·0
Engd. E.	Lowestoft						
Engd. E.	Felixstowe	9	35	31	opo	opo	0·0
Engd. E.	Walton-on-Naze	9	35	31	ogo	o.c.b	0·0
Engd. E.	Southend-on-Sea	3	35	30	o	o.c.bc	0·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	F.			Hr.
England, S.E.	Tunbridge Wells	3	33	28	oo	oo.c.bc	0·0
England, S.E.	Margate	2	39	33	o	b	2·0
England, S.E.	Ramsgate	3	37	31	s	ch	2·0
England, S.E.	Folkestone	3	40	30	oro	o.bc.b	1·8
England, S.E.	Hastings	1	47	29	b.oo.c	bc.b	1·3
England, S.E.	Bexhill-on-Sea	-	44	35	o	o	0·0
England, S.E.	Eastbourne	1	36	30	oo	cm	0·0
England, S.E.	Seaford						
England, S.E.	Brighton	5	34	31	oo	oo	0·0
England, S.E.	Worthing	9	36	29	o	o	0·0
England, S.E.	Littlehampton	17	39	26	o	o	0·0
England, S.E.	Bognor	12	40	31	o	o	0·0
England, S.E.	Southsea						
England, S.E.	Bournemouth	3	42	32	oo.c	o.c	0·5
England, S.W.	Weymouth	5	42	33	oo.c	bcm	1·5
England, S.W.	Torquay	4	46	35	b	b.bc	6·4
England, S.W.	Paignton	3	47	34	c.b	b.bc	6·6
England, S.W.	Falmouth	3	43	38	rhq.oq	oqph	0·1
England, S.W.	Penzance	3	44	39	ofo	o	0·0
England, S.W.	Newquay	2	43	38	ofoq	ofoq	0·0
England, S.W.	Ilfracombe	3	45	34	bc.c	cfoq.c	0·0
England, S.W.	Weston-super-Mare	4	44	33	c.bc	b.bc	2·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. Today. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.)	92	91	0·0	34	22	18	24	oo	oo	oo.bc fo
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	100	0·0	27	3	31	24	msr	mor	sr.foc
Camden Sq. (Brit. Rainfall)	97	94	0·0	37	27	26	24	oo.or	or	*
Hampstead (Reservoir)	*	89	0·0	36	21	18	24	osr	osx	ofx
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	90	97	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
20 Joules	0·6 Milliwatts.	1 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	1	42	32	*	bc.c.oo	o.c	c.ofo	0·8
Birmingham ,,				*				
Oxford to 9 p.m.	*							*
Teignmouth to 9p.m.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	24	39	32	25	o.bc oo	oafg	oaf	*

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

23rd & 24th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·50 / 7·49	12·3 / 12·5	4·20 / 4·21
Greenwich	7·53 / 7·52	12·12 / 12·12	4·31 / 4·32
Wick	8·39 / 8·38	12·24 / 12·24	4·9 / 4·11
Valencia	8·36 / 8·35	12·53 / 12·53	5·10 / 5·11

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° at many places in eastern England, 33° at Tunbridge Wells. Rain or snow fell generally, the amounts ranging up to 29 mm. at Kew Observatory. Sunshine was very variable, none in several localities, 6½ hours at Paignton and Newquay

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 24.

Sunday, 24th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1007·8	42	S	2	o	1009·6	o	37	−4	–	o	–	bc	o	4	42	35	odm	o	bc	*
	Deerness ...	1007·1	38	WNW	1	b	1008·8	*	37	o	–	o	–	b	1	–	42	36	bx	bc.b	bx	3.9
	Stornoway ...	1008·6	40	N	2	bc	1008·4	−2	32	o	N	1	–	bc	1	1	42	31	bcp	bc	b.bc	3.2
	Castlebay (Barra Isd.)	1008·4	41	NNW	2	b	1008·0	o	42	+5	S	1	–	bc	2	–	43	35	b	b	bc	5.2
	Glasgow ...	1007·3	36	NW	1	b	1010·9	+1	27	−5	ESE	1	–	b	*	–	41	27	bf.b	b	bfx	6.3
	Eskdalemuir ...	1006·8	34	N	3	b	1010·7	+1	27	−6	–	o	–	b	*	–	39	27	bc.b	b	bc.c.b	5.7
	Malin Head ...	1008·3	40	NE	3	bc	1008·4	−1	36	−3	SW	3	W	bc	3	2	43	36	bcp	bc	bc	4.2
	Blacksod Point	1010·2	40	NNE	3	bc	?1008·0	−3	38	+1	NNE	1	–	b	1	–	42	35	bc	bc	bc.cm	*
	Valencia ...	1010·1	41	N	2	bc	1011·2	−2	30	−12	ENE	1	–	bx	3	–	44	28	bc	bc	bc	5.3
	Roche's Point	1009·1	40	N	3	b	1012·0	*	34	−2	NW	2	–	b	2	0.1	42	34	bc.b	b	b	*
	Birr Castle ...	1008·8	36	NW	1	b	1011·0	*	31	−7	–	o	–	f	*	–	?41	28	c	b	bz.f	7.0
	Donaghadee ...	1006·7	41	N	4	b	?1010·3	o	35	−5	W	2	–	bz	2	–	42	33	bc	bc.b	bcw.zx	*
	Liverpool (Bidston)	1005·2	39	NNW	2	b	1008·7	o	37	o	N	1	–	bc	1	–	42	37	o.c	bc	bc	2.5
	Holyhead ...	1005·7	43	NE	5	bz	1009·2	o	41	−1	NE	3	–	b	3	Trace	46	41	c.bc	bc.b.bc	b.bc.b	5.2
	Pembroke (St. Ann's)	1005·2	40	NE	3	bc	1009·6	+1	39	o	NNE	2	–	b	2	0.1	44	36	egp	cg	bc	4.2
	Scilly (St. Mary's)	1003·2	45	NNE	5	cpq	1009·3	+1	42	+4	N	4	N	bc	6	3	45	40	cpq	cpq	cq.p.bc	0.7
	Falmouth ...	1003·5	41	NNE	4	o	1008·4	+1	36	+2	N	2	–	b	2	2	41	34	prh.bc	bc.o	o c.b	1.4
	Jersey (St. Aubin)	998·6	41	NE	4	c	1004·6	*	44	+7	N	5	–	om	4	–	44	35	c.b	bc.b	om	6.8
	Portland Bill ...	1000·4	40	N	3	cg	1005·9	+2	40	+4	N	3	N	c	2	–	42	36	c	bc.cg	c	*
	Dungeness ...	997·8	30	ENE	4	ogm	1002·2	+3	41	+7	NNE	4	–	r	4	2	41	30	bc	bc.om	cf.c.or	*
	Dover	999·3	33	NNW	4	m	1003·3	+3	41	+10	N	5	–	o	3	2	41	32	x.f.b	bc.cg	cg.ep	3.3
	Wick	1007·1	40	WNW	1	m	1008·1	o	34	−2	WNW	1	–	bc	2	–	42	32	cm.bem	bem.om	bema	*
	Nairn	1008·1	39	W	1	cg	1009·5	*	30	−6	–	o	–	bc	1	–	40	28	cg	cg	c.bex	0.5
	Aberdeen ...	1006·5	39	WNW	4	o	1009·5	o	38	+2	WNW	3	–	o	2	0.2	41	35	bc	bc.c.o	op.c.o	2.4
	Leith	1007·0	40	NW	1	bc	1009·6	o	36	+2	SW	1	–	o	*	–	42	33	bz.bc	bc	bc.c.oz	*
	Tynemouth ...	1003·4	38	NW	4	om	1008·4	o	40	+1	NNW	1	–	op	3	3	43	39	cm	cm	op	*
	Spurn Head ...	1002·5	41	NE	3	o	1006·6	+1	40	o	ENE	3	–	c	5	0.2	43	39	c	op	o.cp	3.2
	Yarmouth ...	998·7	40	N	2	c	1005·6	+4	40	+9	NE	3	–	o	1	–	41	29	bcx.f	f.c	o	0.0
	Clacton-on-Sea	?	35	WNW	1	om	?	+4	38	+17	NNW	2	N	o	2	1	38	18	bcx.bc	bcm	om.op	2.0
	Nottingham ...	1002·2	41	N	3	o	1007·1	*	40	+2	NE	2	NE	o	*	1	43	37	odm	o.c	o	0.1
	Bath	1002·0	41	NNE	2	o	1007·8	*	40	+4	N	3	N	o	*	0.1	43	35	m.o.c	g.om	o.c.bc.o	0.9
	London (Kew Obsy.)	1000·3	39	NE	2	om	1005·4	+3	41	+11	NNE	3	–	o	*	0.1	41	29	f.om	om	om.o	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...	1007·8	−1	–	o	o	1006·9	*	4		–	o	*	o	*	*	4	−4				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1000·0	30	–	o	o	997·9	−2	28	o	SW	4	–	o	3	*	30	19				
	Bodö	1004·8	34	E	1	o	1003·4	o	32	−2	WSW	4	–	m	2	7	34	32				
	Christiansund	1008·3	37	–	o	o	1009·5	o	36	−1	–	o	–	c	4	1	37	34				
	Skudesnaes ..	1007·4	36	NE	2	o	1007·8	o	34	−3	N	2	–	b		–	39	34				
	Færder (X'tania Fjord)	1007·3	34	NE	2	o	1007·7	o	32	−2	NNE	2	–	o	1	–	34	30				
	The Scaw (Skagen)	1005·9	36	E	2	o	1013·0	o	34	o	ENE	2	–	o	2	1	36	34				
	Blaavands Huk	1002·3	34	E	1	f	1005·5	+3	34	+2	NE	1	–	o	2	–	34	30				
	Haparanda ...	1006·7	24	SW	2	o	1002·4	+3	23	−4	SW	2	–	o	*	1	32	23				
	Hernösand ...	1008·2	32	S	2	o	1007·1	o	27	−5	–	o	–	s	*	Trace	39	25				
	Stockholm ...	1007·8	32	SE	2	m	1007·4	o	30	−4	SE	2	–	o	*	Trace	34	30				
	Wisby	1006·7	32	E	2	c	1007·0	o	30	−2	E	2	–	o	*	–	34	30				
	Karlstad	1007·7	34	E	2	o	1008·0	o	30	−2	ENE	2	–	o	*	2	34	28				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	997·6	37	NE	5	o	1004·2	+3	39	o	NE	4	–	o	3	Trace	41	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	997·5	36	NNW	6	o	1001·1	o	39	+8	NE	6	*	r	5	1	41	31				
	La Hève	996·2	36	NE	3	bc	1002·9	*	37	+3	NE	3	*	o	2	1	37	28				
	Ushant	1004·0	46	NE	8	c	?	*	46	+5	NE	1	*	c	5	–	46	41				
	Brest (St. Mathieu)	1001·5	43	NE	3	c	1008·0	+2	43		NE	3	*	b	2	–	45	39				
	Rochefort (Ile d'Aix)	993·0	37	NE	5	o	1001·7	+4	37	o	N	6	*	b	*	–	39	34				
	Biarritz	990·3	43	N	7	r	1001·2	+3	39	−9	NE	2	*	r	6	16	48	34				
	Paris	995·3	34	N	4	o	999·7	+4	36	+9	NNE	3	–	o	*	–	37	27				
	Belfort	989·2	32	ENE	6	m	995·8	*	30		ENE	4	*	m	*	–	34	30				
	Lyons	969·3	32	NW	4	o	995·7	*	32		NNW	3	*	o	*	–	33	22				
	Nice	983·7	37	E	4	b	985·7	o	45	+6	E	5	*	o	7	–	46	34				
	Perpignan ..	984·6	41	E	2	o	993·5	+4	37	−4	NW	4	–	o	*	3	46	34				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE	Corunna (7 a.m.)	1004·8	50	N	6	o	1012·7	+4	43		SW	2	–	o	5	2	54	43				
	Madrid (8 a.m.)	993·9	46	WNW	3	o	1002·4	+5	36	−3	NNW	4	–	c	*	–	50	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome	987·8	43	SE	1	o	992·4	+2	45		SE	2	–	o	*	28	52	39				
	Azores (Horta, 8 a.m.)	1029·7	*	NNE	3	o	1027·1	o	52	−3	–	o	*	c	2	–	59	52				
	Madeira (Funchal)	1018·7	64	N	4	bc	1018·3	+1	59		N	4	–	o	3	–	64	59				

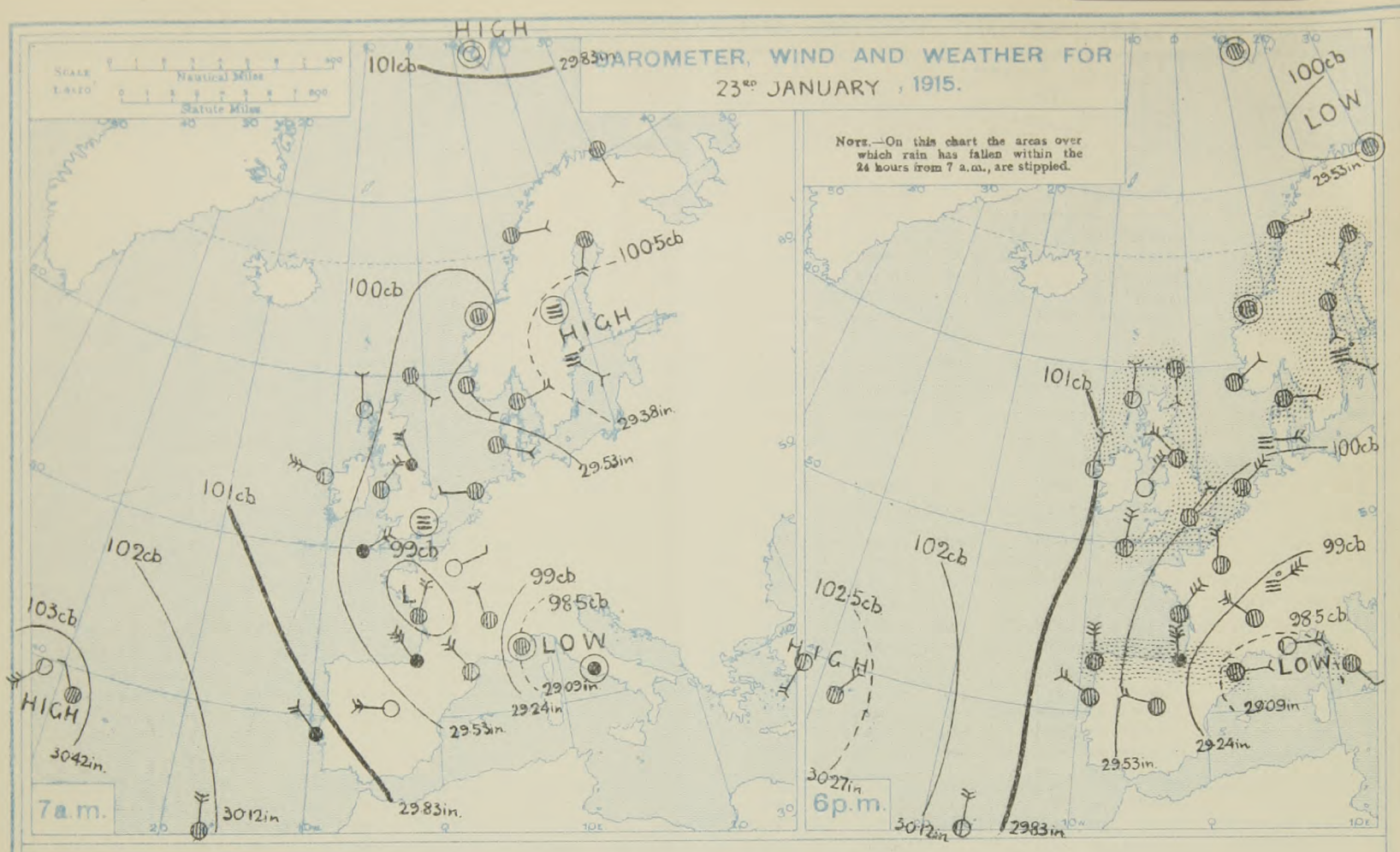
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

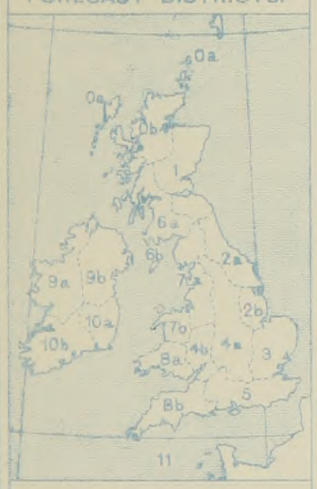
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 23rd JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

0 {a b} 1 2 {a b}

Light variable breezes, mainly Westerly to South-Westerly; fair to dull, some showers; moderate temperature.

3 4 {a b} 5

Light to moderate Northerly to North-Easterly breezes; dull and damp to fair, some local showers; moderate temperature.

6 {a b}

Same as Nos. 0 to 2.

7 {a b} 8 {a b}

Same as Nos. 3 to 5.

9 {a b} 10 {a b}

Light variable airs, then freshening from between West and South; fine at first, cloudy to showery later; temperature rising.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

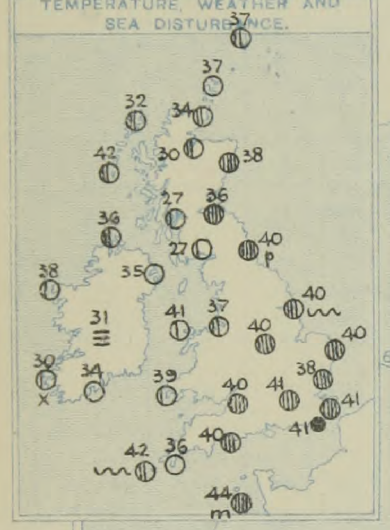
Millibs. & Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 24TH JANUARY, 1915.

GENERAL INFERENCE.

There are some indications of the existence of a depression beyond our western coasts, so that changeable conditions are likely to be maintained.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



1005cb
100cb
LOW
2953in.
2968in.
Barometer steady
1005cb
Barometer falling
Barometer rising
101cb
100cb
101·5cb
102cb
102·5cb
99·5cb.
99cb.
LOW
2924in.
2938in.
2953in.
2968in.
2983in.
2997in.
HIGH
30·27in.
30·12in.

Inches
31
30
29

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 JANUARY.

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 ≈≈.

DAILY WEATHER REPORT. Sunday, 24th January, 1915.

REPORTS FOR YESTERDAY.

23rd January 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.
		°F.						°F.	°F.								
Spitsbergen	1014·6	0	N	1	h	1011·3	0	3	−2	–	0	*	s	*	*	5	−4
Bodø	996·4	36	SE	2	c	1003·4	+3	34	0	E	2	–	o	2	–	36	32
Christiansund	997·6	38	SW	2	q	997·6	+3	37	−2	–	0	–	o	2	–	39	36
Skudesnaes	998·4	39	ESE	3	r	1001·6	+3	37	+1	SE	2	–	o	2	2	37	34
The Skaw	997·2	36	E	4	r	1001·5	+1	34	−3	ENE	3	–	–	2	Trace	37	34
Haparanda	.	.	.	.	.	1003·8	+10	27	−5	SSW	4	–	–	*	3	32	27
Hernösand	1002·9	32	–	0	0	1007·1	+1	32	+2	–	0	–	–	*	Trace	34	28
Stockholm	1002·6	32	S	2	0	1006·1	+1	34	+2	SE	2	–	–	*	Trace	34	32
Wisby	1002·4	34	S	2	0	1006·1	+2	32	−2	SE	2	–	–	*	–	34	32
Karlstad	1001·2	34	E	2	0	1004·8	+1	32	+2	–	0	–	s	*	–	34	30
Ushant	996·0	45	N	9	c	990·7	*	44	−2	NE	6	*	r	7	10	46	36
Madrid	1000·2	45	NNW	6	bc	1003·5	−2	39	−4	NW	4	–	b	*	–	50	36
Lisbon	1012·2	58	NW	5	0	1012·3	−2	50	−2	NW	3	–	r	*	Trace	57	50
Rome	986·0	46	E	2	r	980·6	+1	46	−1	E	1	–	r	*	17	48	43
Horta	.	.	.	.	.	1032·4	−3	55	+1	NW	1	–	o	2	–	57	56
Funchal	1023·8	63	NW	4	c	1021·3	0	59	+4	N	4	*	o	4	–	64	57

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	0·3	40	35	o.c.bc	bc.od.	0·5
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	0·3	40	34	o.c	op	0·1
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	1	42	36	o.bc	bc.o	0·2
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	–	43	35	c.b	b	4·3
Midlands.	Buxton	0·8	38	33	c	cr	0·0
Midlands.	Leamington Spa	3	42	34	r.ofg	ogf	0·0
Midlands.	Malvern						
Midlands.	Ross-on-Wye	2	40	33	mrsq	oem.o	0·0
Wales.	Rhyl						
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	2	42	25	r.o.c	c.o	1·5
Wales.	Tenby	–	44	41	bc	b	3·4
Wales.	Swansea	1	43	33	od	bc.b.	2·3
England. E.	Cromer	2	42	31	om.bom	bcx.	2·0
England. E.	Lowestoft						
England. E.	Felixstowe	–	35	19	bm	cgf	1·0
England. E.	Walton-on-Naze	1	34	14	bcm	bc.o.cf	1·3
England. E.	Southend-on-Sea	3	34	22	f	b.bc	2·0
England. S.E.	Tunbridge Wells	–	37	19	bm	b.bc.om	5·5
England. S.E.	Margate	–	40	31	bc	c	2·7
England. S.E.	Ramsgate	1	38	30	bc	bc.	3·1
England. S.E.	Folkestone	–	40	31	bc	bc.o	3·6
England. S.E.	Hastings	–	38	31	b	b.bc.o	5·2
England. S.E.	Bexhill-on-Sea	–	44	?	bc	c.bc	3·5
England. S.E.	Eastbourne	–	41	30	b	bf	5·8
England. S.E.	Seaford	–	39	28	b	bm	6·1
England. S.E.	Brighton	–	37	26	bm	bc.c.o	6·0
England. S.E.	Worthing	–	37	27	b	b.	6·5
England. S.E.	Littlehampton			*			
England. S.E.	Bognor	12	36	29	b	b.bc.	6·4
England. S.E.	Southsea						
England. S.E.	Bournemouth	7	41	32	b	b.bc.	6·0
England. S.W.	Weymouth	3	42	34	bcz	bc.cm.	5·1
England. S.W.	Torquay	1	42	34	o	c.bc.c.o	3·0
England. S.W.	Paignton	3	42	35	oh.bc.b	c	2·4
England. S.W.	Falmouth	2	41	33	phr.bc	bc.o.	1·4
England. S.W.	Penzance	9	44	34	ph.c	c	0·9
England. S.W.	Newquay	8	43	34	op.o.c	o	0·2
England. S.W.	Ilfracombe	3	45	38	or.o	o	0·0
England. S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	91	92	0·0	40	34	29	0·3	of	of.o	o
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	93	0·0	42	?	31	2	f.o	om	odm.o
Camden Sq. (Brit. Rainfall)	91	90	0·0	41	28	31	–	f.om	o	*
Hampstead (Reservoir)	*	94	0·0	39	34	29	2	of	or	o
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	90	88	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
69 Joules	2·2 Milliwatts.	9 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	0	41	33	31	ors	c.b	bm	*
Darwen to 9 p.m.	1	39	32	28	c.org	cg	cg	0·0
Manchester ,,	Trace	42	38	*	o	o.cp	cp	0·1
Birmingham ,,	2	40	34	31	or	or	o	0·0
Oxford to 9 p.m.	*	40	35	32	or.om	om	om.cm	*
Teignmouth to 9pm.	1	42	35	33	cp	c.bc	c	3·0
Plymouth ,,	2	41	35	–	c.b	or	c.b	4·0
S. Kensington (Museum Grounds to 6 p.m.)	1	39	29	22	o.of	ogf.om	om	*

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

24th & 25th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.49 / 7.48	12.5 / 12.5	4.21 / 4.22
Greenwich	7.52 / 7.51	12.12 / 12.12	4.32 / 4.33
Wick	8.38 / 8.36	12.24 / 12.24	4.11 / 4.13
Valencia	8.35 / 8.34	12.53 / 12.53	5.11 / 5.12

NOTES ON YESTERDAY'S WEATHER.

Severe frost occured in Essex, the shade temperature sinking to 14° at Walton-on-the-Naze. During the day many maxima were below 40°, only 34° at Walton and Southend. Rain and snow were slight generally. Several localities had no sunshine, others large records, up to 7 hours at Birr Castle.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 25

Monday, 25th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1005·3	41	S	3	c	1002·8	0	42	+5	S	2	–	om	1	2	43	35	bc	bc	c.om	*
	Deerness ...	1003·7	40	S	3	o	1002·4	*	38	+1	S	1	–	o	2	–	41	36	bc.bc.c	c.o	o	1·2
	Stornoway ...	1001·8	42	S	6	oq	1001·3	+1	41	+9	S	6	–	oq	5	–	42	32	bc.c	c.o	oq	0·7
	Castlebay (Barra Isd.)	1001·9	43	S	5	og	1001·1	0	42	0	S	4	–	odp	4	0·4	45	40	bep.o	o.c.o	og.odp	0·7
	Glasgow ...	1007·4	33	SE	1	bf	1005·8	0	33	+6	ENE	1	–	c	*	–	36	26	f.cf	cf.bf	bf.c.oc	1·0
	Eskdalemuir ...	1008·4	34	–	0	o	1006·8	-1	31	+4	S	1	–	om	*	–	40	25	bc.c	c.o	bcm.om	3·0
	Malin Head ...	1004·0	36	S	4	bc	1002·0	+2	35	-1	SSW	5	SW	bcxc	4	–	41	33	bc	bc	bcxc	3·8
	Blacksod Point	1001·6	42	S	4	om	1003·3	+2	41	+3	–	0	–	or	1	5	43	37	bc	bc	omd.or	*
	Valencia ...	10037	43	SSE	2	c	10040	+1	42	+12	N	1	–	r	3	12	46	29	bc	c	cmr	0·6
	Roche's Point	1007·7	43	SSW	2	c	1005·1	*	42	+8	–	0	–	o	1	–	47	34	b.bc	bc.c	c.o	*
	Birr Castle ...	1006·7	32	SE	1	c	1003·7	*	36	+5	S	1	–	o	*	–	37	30	f.bc	c	bcx.o	3·7
	Donaghadee ...	10060	36	SSW	2	bcy	1005·0	-1	30	-5	SSW	2	–	bzx	1	–	43	30	bcy	bcy	bc.bcy	*
	Liverpool (Bidston)	1008·0	39	–	0	m	1006·1	0	35	-2	SE	1	–	m	1	–	40	35	cm	om	om	0·2
	Holyhead ...	1007·2	38	SE	1	bzx	1005·6	0	36	-5	E	2	–	bcxy	1	Trace	48	33	x.by	b.bc.b	b.bcxy	6·6
	Pembroke (St. Ann's)	1007·6	39	NE	1	b	1005·9	0	36	-3	E	2	–	cy	2	0·1	46	35	b	b	b	7·2
	Scilly (St. Mary's)	1008·0	40	NW	2	bc	10047	-1	37	-5	–	0	–	bcw	4	–	48	36	bc	bc	bwx	4·9
	Falmouth ...	1007·7	39	N	2	b	10049	-1	36	0	N	2	–	o	2	–	46	35	b	b	b.o	7·8
	Jersey (St. Aubin)	1005·8	44	N	4	ogm	1004·1	*	40	-4	NNW	3	–	f	2	–	45	39	og	ogm	ogmf	0·0
	Portland Bill ...	1006·5	42	NNE	2	c	1004·9	-1	42	+2	NNE	2	–	c	2	–	44	40	c.o	c.o	cm	*
	Dungeness ...	10043	40	NNE	5	og	1003·6	-1	40	-1	NNE	3	–	o	3	1	43	38	o.c	c.o	op.o	*
	Dover	10048	40	N	4	oe	10049	0	39	-2	N	4	N	r	3	3	43	38	o	o	op.d	0·0
	Wick	1004·4	40	S	3	bc	1002·0	0	37	+3	SSW	2	–	bc	3	0·2	41	32	bc	bcm	bcm	*
	Nairn	1004·1	33	–	0	bc	1002·9	*	33	+3	W	2	–	bcx	1	0·1	36	26	bm	bcm	m.bcx	0·8
	Aberdeen ...	1006·8	38	SSW	2	bc	1004·1	0	35	-3	SSW	3	N	c	2	–	42	34	c.b	be.b	bc	2·9
	Leith	1007·9	39	SSW	1	?	1004·3	0	29	-7	–	0	–	bcx	*	–	41	29	o	c.bc.by	by	*
	Tynemouth ...	1008·7	38	–	0	f	1007·2	-1	30	-10	W	2	–	bcf	3	–	43	30	c	bcm	bcf	*
	Spurn Head ...	1008·3	40	NE	2	c	1008·3	0	42	+2	–	0	–	c	4	2	42	37	o.cp	o.cp	o.cp	0·0
	Yarmouth ...	10064	40	NE	4	o	1005·8	+1	38	-2	NE	3	NE	or	2	–	42	38	o	o	o	0·0
	Clacton-on-Sea	?	41	NNE	2	o	?	-1	38	0	NNW	2	–	o	2	–	42	37	om	om	om.o	0·0
	Nottingham ...	1007·5	41	NNE	2	o	1006·4	*	36	-4	N	1	N	om	*	0·2	42	35	om	om	op.c	0·0
	Bath	1008·8	42	NE	2	o	1006·3	*	38	-2	NE	1	N	o	*	–	42	35	o	ogm	ogm	0·0
	London (Kew Obsy.)	1006·7	42	NNE	2	om	1005·7	0	37	-4	NNE	2	–	om	*	–	43	37	omd.om	om	om	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1010·1	7	SE	4	bc	1017·8	*	2	-2	SE	6	*	o	*	*	7	2				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	992·8	23	SW	2	b	9969	+2	30	+2	NE	2	–	s	2	*	30	23				
	Bodö	1003·1	32	WNW	4	c	1002·9	0	32	0	SE	1	–	m	2	?	36	30				
	Christiansund	1007·5	36	–	0	o	1005·6	0	36	0	–	0	–	o	4	–	36	36				
	Skudesnaes ..	1007·4	36	SE	4	o	1007·1	0	36	+2	SSE	4	–	o	2	–	36	32				
	Færder (Xiania Fjord)	1007·8	32	–	0	o	1006·6	0	30	-2	N	1	–	o	1	–	32	30				
	The Scaw (Skagen)	1006·6	34	NE	2	o	1006·1	0	34	0	N	1	–	o	1	–	34	32				
	Blaavands Huk	1007·3	34	NE	1	c	1007·1	0	32	+2	NE	1	–	o	2	–	34	28				
	Haparanda ...	1000·3	10	WSW	2	b	998·1	0	1	-22	W	2		b	*	–	23	1				
	Hernösand ...	1006·4	19	–	0	o	1004·2	0	14	-13	–	0		b	*	1	27	12				
	Stockholm ...	1006·7	28	W	2	o	1004·0	0	28	-2	NW	2		o	*	–	30	10				
	Wisby	1006·1	34	NE	2	c	1004·3	0	32	+2	N	4		o	*	–	34	30				
	Karistad	1007·2	30	–	0	o	1006·0	0	28	-2	–	0		o	*	–	34	27				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1005·5	37	NE	2	o	1006·0	+2	36	-3	NE	3	–	o	2	–	39	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1004·3	39	ENE	4	r	1005·2	0	36	-3	ENE	4	*	o	3	Trace	43	36				
	La Hève	1003·4	39	NE	2	m	1003·5	*	37	0	–	0	*	m	0	–	41	37				
	Ushant	1008·0	46	NE	3	b	1005·3	*	43	-3	E	2	*	bc	3	–	48	36				
	Brest (St. Mathieu)	1008·3	46	NNE	2	o	1006·0	0	39	-4	NE	1	*	b	1	–	50	37				
	Rochefort (Ile d'Aix)	1003·7	43	N	5	o	1003·7	0	39	+2	NNE	3	*	o	*	–	45	37				
	Biarritz	1003·9	43	N	4	o	1003·5	0	41	+2	SE	2	*	c	4	11	46	39				
	Paris	1002·3	36	NNE	3	o	1002·7	0	34	-2	NNE	3	–	o	*	–	37	34				
	Belfort							*					*		*							
	Lyons	998·6	32	NNW	2	r	998·7	*	34	+2	NNW	3	*	r	*	2	35	32				
	Nice	989·0	40	E	1	o	989·6	+1	36	-9	–	0	*	c	4	–	48	34				
	Perpignan ..	998·6	41	NW	3	o	999·0	0	39	+2	NW	3	NW	c	*	–	43	37				
	Sanguinaire ...	985·0	46	W	7	f	987·4	*	44		N	4	*	f	5	18	52	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1012·7	50	NW	3	o	999·5	-3	45	+2	SW	3	–	r	4	6	50	43				
	Madrid (8 a.m.)	1009·4	43	NW	2	b	1008·4	-2	30	-6	SSW	1	NW	c	*	–	45	30				
	Lisbon (9 a.m.)	1013·5	48	NNW	3	bc	1006·9	-7	52		WSW	5	–	r	*	3	52	46				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1028·6	*	N	4	r	1031·4	0	52	0	NW	2	*	o	2	–	61	52				
	Madeira (Funchal)																					

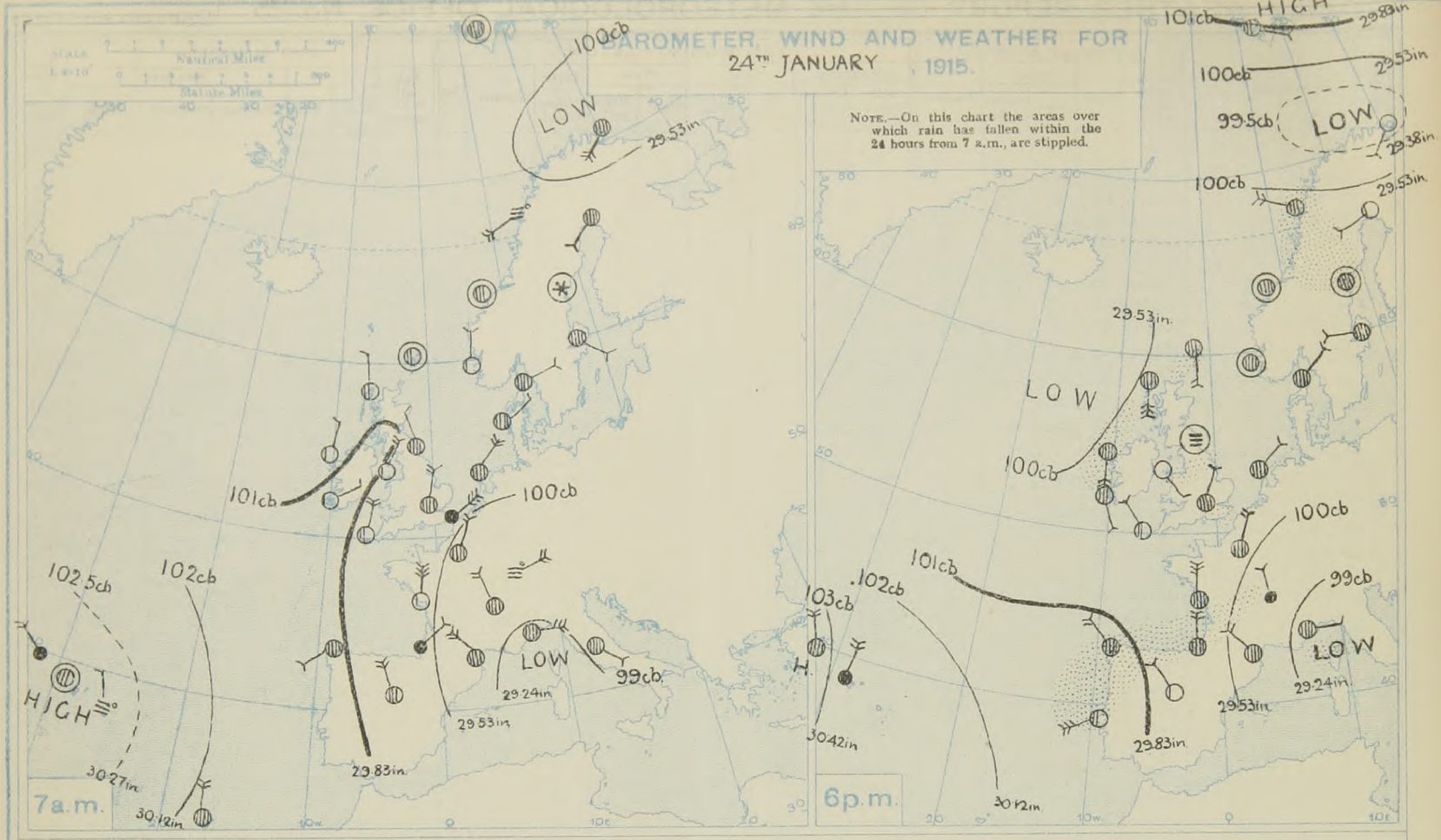
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

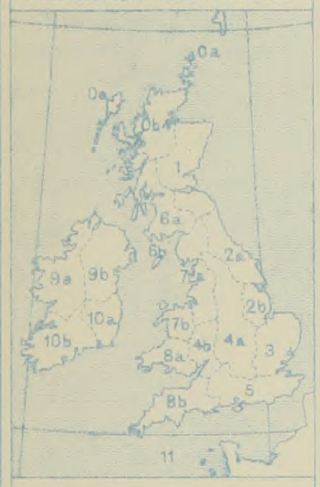
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 24TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay

0 {a b} 1 Southerly to South-Westerly winds, light or moderate; mostly fair, but some rain locally; moderately low temperature.

2 {a b} Light variable winds; a good deal of cloud generally, with some mist or fog locally, fairer intervals; moderately low temperature.

3 Light winds between North and North-East; a good deal of cloud generally, with some mist or fog locally, fairer intervals; moderately low temperature.

4 {a b} Same as No. 2.

5 Same as No. 3.

6 {a b} Same as Nos. 0 and 1.

7 {a b} South-Easterly or variable winds, light; a good deal of cloud generally, with some mist or fog locally, fairer intervals; moderately low temperature.

8 {a b} Easterly or variable winds, light; a good deal of cloud generally, with some mist or fog locally, fairer intervals; moderately low temperature.

9 {a b} 10 {a b} Wind light from some Southerly point; variable weather, some rain in west; rather colder.

11 Wind light, variable or Easterly; sea slight; some mist or fog, otherwise fair.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

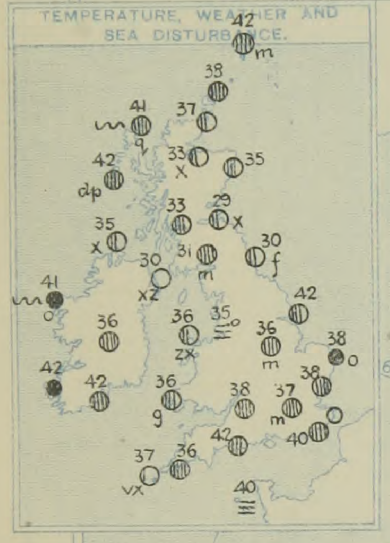
SYNOPTIC CHART FOR 7 a.m., MONDAY, 25TH JANUARY, 1915.

GENERAL INFERENCE.

There are no indications

of any important change.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH

101·5cb

101cb

100·5cb

100cb

99·5cb

29·97in

29·83in

29·68in

29·38in

29·53in

Scarcely

LOW

Barometer falling

Barometer change

103cb 102·5cb 102cb 101·5cb 101cb 100·5cb 100cb

30·42in 30·27in 30·12in 29·97in 29·83in

99·5cb

99cb

29·24in

Inches.

31

30

29

SCALE 1 : 2 × 10⁶

Nautical Miles 0 1 2 3 4 5°

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 JANUARY.

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 ≈≈

DAILY WEATHER REPORT. Monday, 25th January, 1915.

PILOT BALLOON ASCENTS for the PAST WEEK.

Component Velocities to East and to North in Metres per Second.

Station Date & Hour.		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Farnborough 18th 9h 30m		S. Farnborough 19th 7h 45m																	
Heights in Kilometres.	2	+2	-11																		
	1	+3	-14	+4	-10																
	0·5	+3	-14	+6	-11																
	0	+2	-5	+3	0																

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	41	31	bz *	b.bz *	3·9
Scotland.	St. Andrews						
Eng. N.E.	Harrogate	0·3	39	25	o.c	c.o	0·0
Eng. N.E.	Scarborough	*	45	39	o.c	o.c	0·1
Eng. N.E.	Skegness	–	42	40	o	o	0·0
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	–	42	33	c	c	3·5
Eng. N.W.	Southport	–	40	34	b.bc	bc.o.	1·0
Midlands	Buxton						
Midlands	Leamington Spa	0·3	43	34	cfg c	cgf c.	2·0
Midlands	Malvern	–	41	38			0·0
Midlands	Ross-on-Wye	–	42	37	om	om.c.o	0·0
Wales.	Rhyl	–	43	35	bc	bc.	5·5
Wales.	Colwyn Bay	–	43	35	bc	bc.	4·8
Wales.	Llandudno						
Wales.	Aberystwyth	–	41	30	o.c.b.	c.o.	4·0
Wales.	Tenby						
Wales.	Swansea	–	43	35	bc.c	c.	1·1
England. E.	Cromer	Trace	42	40	o.c	o.c	0·0
England. E.	Lowestoft	0·3	42	40	o	o	0·0
England. E.	Felixstowe	1	42	39	om	cm	0·0
England. E.	Walton-on-Naze	0·3	42	39	og	og.o.c	0·0
England. E.	Southend-on-Sea	–	42	34	om	o	0·0
England. S.E.	Tunbridge Wells	–	41	32	om	o	0·0
England. S.E.	Margate	1	43	34	o	o	0·0
England. S.E.	Ramsgate	1	42	33	o	o	0·3
England. S.E.	Folkestone	2	43	31	o.c.o	om	0·0
England. S.E.	Hastings	1	42	35	op.o	o.bc	0·2
England. S.E.	Bexhill-on-Sea	–	45	36	c.b	bc.b	3·2
England. S.E.	Eastbourne	1	43	35	o	o.c.bc	0·0
England. S.E.	Seaford						
England. S.E.	Brighton	0·3	48	29	o	o	0·0
England. S.E.	Worthing	–	42	29	o	o	0·0
England. S.E.	Littlehampton	0·3	40	29	o	o	0·0
England. S.E.	Bognor	–	41	35	o	o	0·0
England. S.E.	Southsea						
England. S.E.	Bournemouth	–	43	32	o	o	0·0
England. S.W.	Weymouth	–	45	38	c	bc.cm	0·3
England. S.W.	Torquay	–	47	34	bc	bc.c.o	3·5
England. S.W.	Paignton						
England. S.W.	Falmouth	–	46	34	b	b	7·8
England. S.W.	Penzance						
England. S.W.	Newquay	–	44	39	bv	bv.	7·4
England. S.W.	Ilfracombe	–	45	37	bc.b	bz	6·5
England. S.W.	Weston-super-Mare	–	44	36	c.bc	o	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	90	93	0·0	42	36	34	0·3	o	o	o
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	82	93	0·0	44	?	34	–	bc.o	o.cm	om.
Camden Sq. (Brit. Rainfall)	–	93	0·0	44	36	34	–	–	–	*
Hampstead (Reservoir)	*	95	0·0	41	31	28	–	o	of	o
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	–	88	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
69 Joules	2·2 Milliwatts.	7 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	–	35	26	25	bmac	bmx.c	c	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	–	40	36	34	o	o	o	0·0
Oxford to 9 p.m.	*							*
Teignmouth to 9 p.m.	–	45	38	35	c	bc	c	3·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	43	39	35	o	o	o	*

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

25th & 26th Jan:... 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.48 / 7.47	12.5 / 12.6	4.22 / 4.24
Greenwich	7.51 / 7.50	12.12 / 12.13	4.33 / 4.35
Wick	8.36 / 8.34	12.24 / 12.25	4.13 / 4.15
Valencia	8.34 / 8.33	12.53 / 12.54	5.12 / 5.14

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in some parts of Ireland and Scotland, but rose to above that value generally. Several hours of bright sunshine were recorded at some stations in the west and south-west.

Note.—The information relating to weather is indicated by the following letters—b. blue sky: bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 26

Tuesday, 26th January, 1915.

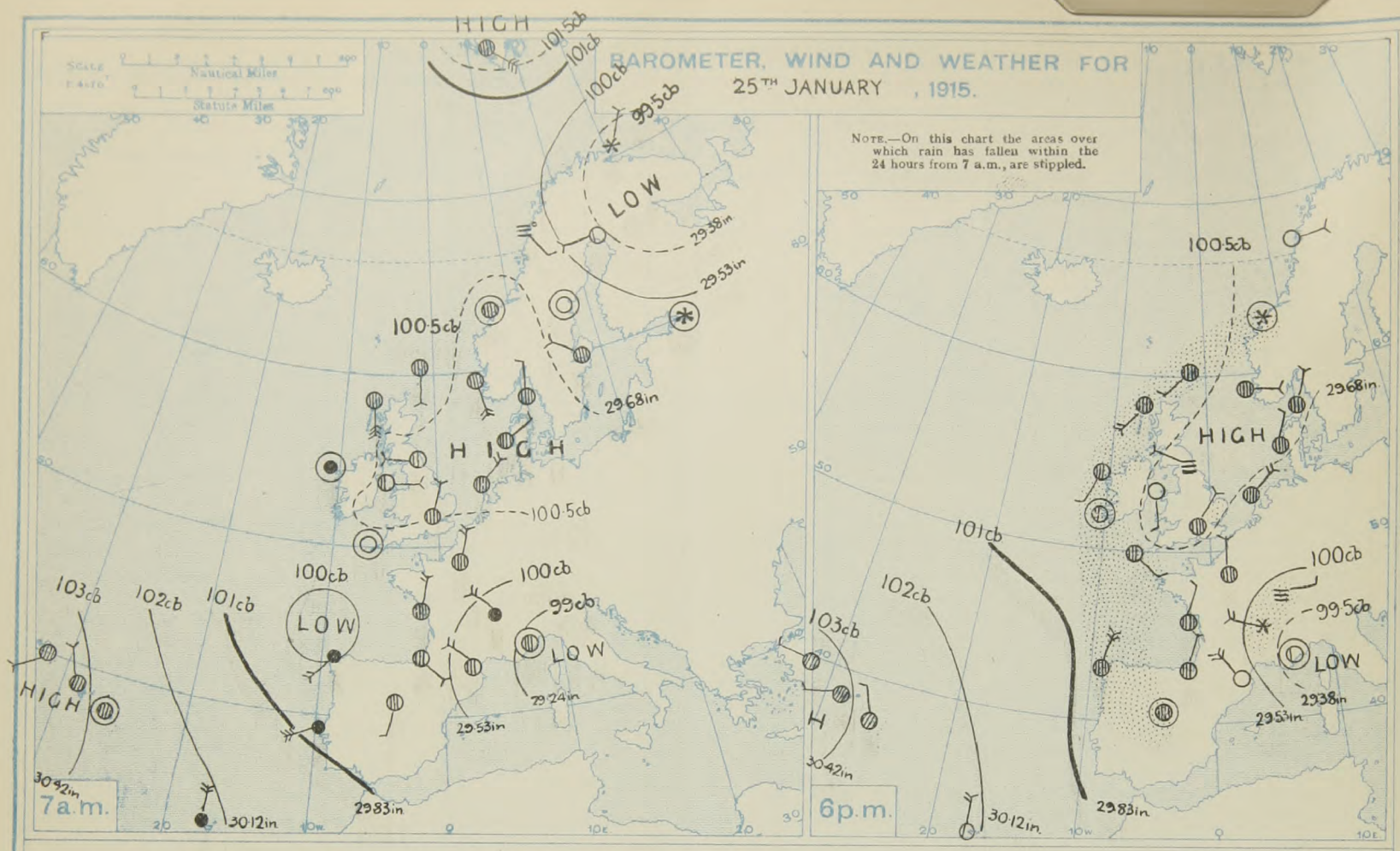
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Past 24 hours. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1004·4	42	SW	1	om	1003·7	0	40	−2	SE	2	SE	bc	1	H	43	38	om	om	om.bc	*
	Deerness ...	1004·0	39	E	1	0	1002·0	*	39	+1	-	0	-	o	2	-	41	37	0.c	c.o	o	0·0
	Stornoway ...	1003·0	41	SSW	3	0	1000·6	−1	37	−4	SSW	2	-	c	2	0·3	42	36	or.or	o	o.c	0·0
	Castlebay (Barra Isd.)	1001·9	43	SE	4	0	998·8	−1	43	+1	SSE	5	-	op	5	1	45	41	d.p	d.op	op	0·2
	Glasgow ...	1005·6	36	SSW	2	cr	1003·6	−1	31	−2	ESE	1	-	b	*	0·2	38	30	c.of	c.or	c.op.z	0·0
	Eskdalemuir ...	1006·5	33	-	0	0	1004·9	−2	21	−10	SSW	1	-	bmx	*	-	34	21	om	om	om.c.b	0·0
	Malin Head ...	1002·3	37	S	4	rm	999·2	−1	36	+1	S	2	SE	bcx	3	Trace	39	35	omd	omd	bcx	0·0
	Blacksod Point	1002·3	45	SSW	1	cmp	994·0	−3	38	−3	SSE	5	S	bcm	5	1	46	35	be	op	bcm.om	*
	Valencia ...	1003·4	39	-	0	bc	992·2	−5	42	0	ESE	3	-	bc	3	1	46	36	op	be	bc	0·6
	Roche's Point	1004·8	42	S	2	r	996·1	*	44	+2	SE	4	-	o	4	1	44	40	o	r.or	o	*
	Birr Castle ...	1003·4	40	SSE	1	o	996·3	*	37	+1	SE	3	-	o	*	H	41	35	or	or.o	o	0·0
	Donaghadee ...	1003·7	36	SSW	2	bc	1000·7	−1	39	+9	SSE	4	S	cgm	3	-	43	29	bcm	bcm	mx.cgm	*
	Liverpool (Bidston)	1006·3	33	SE	2	m	1003·7	−2	34	−1	SE	2	-	o	2	-	42	30	om	cm	ox	0·0
	Holyhead ...	1005·2	39	SSE	1	b	1000·9	−3	34	−2	S	1	S	bcm	0	-	42	33	cm	cm.bm	bm.bcm	0·1
	Pembroke (St. Ann's)	1005·3	39	E	2	c	999·1	−4	40	+4	ESE	5	-	ogp	4	0·1	42	35	cg	cm	cm	0·0
	Scilly (St. Mary's)	1003·6	43	SE	1	cr	997·1	−2	43	+6	SW	4	SW	bc	6	2	49	37	bc	bcr	c.omr.c	4·5
	Falmouth ...	1004·6	38	N	1	b	998·7	−3	44	+8	SSE	3	-	r	4	Trace	44	35	o bc	c.bc	bc or	1·5
	Jersey (St. Aubin)	1004·3	43	NNE	2	o	1002·9	*	42	+2	ESE	4	SE	bc	3	-	45	34	of om	o.c.om	om.bc	0·3
	Portland Bill ...	1005·3	40	NNE	2	c	1002·7	−2	42	0	E	4	-	op	3	-	42	36	c.o	o.c	bc.c	*
	Dungeness ...	1004·6	40	NNE	3	o	1004·3	+1	32	−8	NNE	1	NE	cx	3	-	41	35	o.bc	bc.o	o.c.bcx	*
	Dover	1004·8	39	N	3	o	1003·7	−1	36	−4	NW	3	NE	c	2	0·1	41	33	od	o.c.b.o	o.c	0·8
	Wick	1003·8	37	WNW	1	m	1002·7	0	32	−5	-	0	-	m	2	-	41	31	bcz	bcz.om	om.bcm	*
	Nairn	1003·9	30	W	1	cg	1002·5	*	26	−7	-	0	-	bcm	1	-	39	24	b	b.be	cmx	4·4
	Aberdeen ...	1004·7	35	SSW	2	bc	1003·7	0	30	−5	SSW	2	-	m	2	-	39	30	c.cg	bc.bc	bcxz	0·3
	Leith	1005·7	33	SSW	1	m	1003·0	0	30	+1	E	1	-	bz	*	-	37	28	f.cz	f	oz	*
	Tynemouth ...	1006·2	36	WNW	2	f	1004·2	−1	30	0	SW	2	-	f	3	-	38	27	f	f	f	*
	Spurn Head ...	1006·2	40	ESE	1	c	1004·8	−1	38	−4	N	1	-	o	4	-	42	36	c	c	c.o	0·3
	Yarmouth ...	1005·6	38	E	2	o	1004·3	0	37	−1	NNE	2	NE	o	1	1	41	36	or.c.o	or	o.	1·4
	Clacton-on-Sea	- ?	39	NNE	2	c	?	0	36	−2	NNW	2	N	o	2	1	42	36	o.c.bc	bc.cp	c.op	1·0
	Nottingham ...	1006·4	38	ENE	1	o	1004·1	*	35	−1	NE	1	NE	o	*	-	39	34	om	om	o	0·0
	Bath	1006·2	39	E	1	o	1003·8	*	27	−11	NE	1	W	b	*	-	41	27	og	og	o.bc.b	0·0
	London (Kew Obsy.)	1005·8	40	NE	2	om	1004·2	0	34	−3	-	0	-	f	*	-	41	32	om	om	om.f	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö	1006·7	25	E	2	b	1010·1	+1	23	−9	E	2	-	b	2	-	32	19				
	Christiansund	1006·3	25	-	0	S	1006·4	0	39	+3	SW	1	-	s	4	4	41	25				
	Skudesnaes ..	1006·9	37	ESE	2	0	1005·0	0	34	−2	-	0	-	b	1	-	37	34				
	Færder (X'tania Fjord)	1006·0	30	N	2	b	1004·4	0	30	0	NNE	4	-	o	1	-	32	30				
	The Scaw (Skagen)	1005·0	34	NNE	1	0	1003·0	0	34	0	N	3	-	o	2	-	36	30				
	Blaavands Huk	1006·3	34	NNE	1	0	1003·6	−2	30	−2	ENE	1	-	b	1	Trace	44	30				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1005·2	37	NE	3	0	1003·7	0	36	0	N	1	-	c	1	-	37	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1005·7	39	NE	5	0	1003·3	0	35	−1	S	1	*	r	2	-	41	32				
	La Hève	1002·3	37	NE	1	m	1003·3	*	34	−3	NE	1	*	m	1	-	41	32				
	Ushant	1005·2	47	E	2	c	1000·0	*	47	+4	W	3	*	o	5	-	50	41				
	Brest (St. Mathieu)	1007·0	45	NE	1	0	1000·8	−2	46	+7	SW	3	*	o	3	1	48	39				
	Rochefort (Ile d'Aix)	1003·8	40	NNE	1	0	1004·7	0	32	−7	ENE	1	*	f	*	-	43	32				
	Biarritz	1003·3	45	NNE	2	c	1005·2	0	42	+1	WSW	2	*	c	2	-	50	39				
	Paris	1002·9	36	N	2	0	1003·9	+1	32	−2	NNE	2	-	o	*	-	36	32				
	Belfort	999·8	28	E	2	f	1001·6	*	27		E	2	*	s	*	3	33	27				
	Lyons	1000·3	32	WNW	3	s	1001·5	*	32	−2	NNW	1	*	s	*	2	36	31				
	Nice	992·2	39	-	0	b	993·0	+2	37	+1	-	0	*	b	3	-	48	34				
	Perpignan ..	1000·3	43	NW	4	b	1001·5	+2	43	+4	NW	4	NW	o	*	-	48	37				
	Sanguinaire ...	992·0	46	W	5	m	992·4	*	45	+1	W	5	*	m	5	-	50	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·3	48	NNE	4	0	1005·6	−7	46	+1	S	5	-	r	5	12	50	43				
	Madrid (8 a.m.)	1003·5	34	-	0	0	1009·9	+1	36	+6	W	3	-	b	*	2	36	30				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1031·3	*	WSW	1	0							*									
	Madeira (Funchal)	1022·7	61	N	3	b	1023·7	0	57	−2	N	3	W	o	3	-	66	57				

RAINFALL.

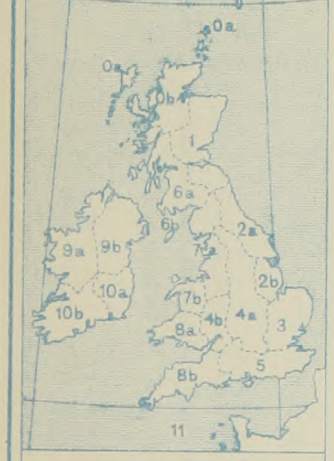
Equivalents of Millimetres. in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

0 {a, b} South-Easterly and Southerly winds, light to fresh; cloudy, some mist, then some rain; temperature rising.

1 {a} Southerly winds, light; fair generally, but mist in places; temperature rising somewhat.

2 {b}, 3, 4 {a, b}, 5 Wind Northerly, then veering towards East or South-East; mostly cloudy or overcast, some mist or fog locally, fairer intervals; temperature moderately low.

6 {a, b} Same as No. 0.

7 {a, b}, 8 {a, b} Southerly winds, light to fresh; rather changeable, mostly fair, but some showers; temperature rising.

9 {a, b}, 10 {a, b} Southerly to South-Westerly winds, moderate; fresh occasionally; changeable, some rain; moderate temperature.

11 Southerly and South-Westerly winds, moderate; sea rather rough; changeable, some showers, mostly fair.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

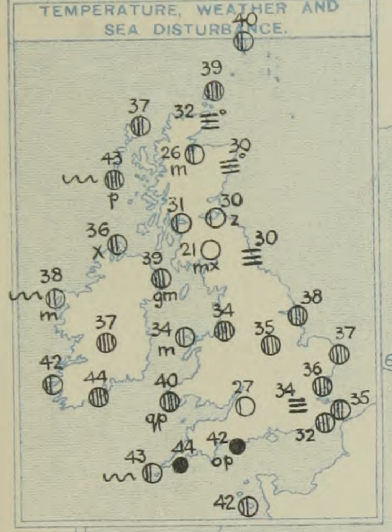
Millibs Inches
1050 31
1040
1030
1020 30
1010
1000
990 29
980
970

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 26TH JANUARY, 1915.

GENERAL INFERENCE.

A depression of little depth off the south-west of these Islands is likely to travel in a northerly direction.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Inches.
31
30
29

101cb
HIGH
29·83in.
1005cb.
29·68in.
Barometer falling slightly
scarcely changing
29·53in.
29·38in.
LOW
99·5cb
100cb
Barometer falling
1005cb
101cb
101·5cb
102cb
29·83in.
29·97in.
HIGH
30·12in.
LOW
29·53in.
29·38in.
29·68in.

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 JANUARY.

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 ≈.

DAILY WEATHER REPORT. Tuesday, 26th January, 1915.

REPORTS FOR YESTERDAY.

25th January, 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1006·7	23	SE	1	0	1002·7	−2	23		–	0	–	5	*	–	25	19
Funchal	1019·0	63	NNW	4	0	1020·3	0	59	0	N	4	N	r	3	1	64	59

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	37	32	bcz	bcz	0·3
Scotland.	St. Andrews	–	37	28	*	*	0·0
Eng., N.E.	Harrogate	–	41	27	c.bc.b	b.bc.	4·7
Eng., N.E.	Scarborough	*	42	38	o	o	0·0
Eng., N.E.	Skegness	0·3	41	35	o.bc	c.o	1·6
Eng., N.W.	Morecambe	–	39	31	o.bc	b.bc.o	1·4
Eng., N.W.	Blackpool	–	38	31	m.o.c	om	0·1
Eng., N.W.	Southport	–	44	29	om.c	c.o.cm	0·0
Midlands.	Buxton	–	39	27	m.c.b	b.	2·3
Midlands.	Leamington Spa	–	40	35	c	c	0·0
Midlands.	Malvern	–	38	34	c	c	0·0
Midlands.	Ross-on-Wye	–	39	35	om	bc	0·0
Wales.	Rhyl	–	40	29			0·2
Wales.	Colwyn Bay	–	44	30	bc	bc.c	4·2
Wales.	Llandudno	–	45	33	b	b	5·1
Wales.	Aberystwyth	–	42	31	o.c	c.o	2·0
Wales.	Tenby	–	44	32	bc	bc	3·4
Wales.	Swansea	–	42	34			0·0
England, E.	Cromer	–	41	36	o.c	o.c	0·1
England, E.	Lowestoft	–	42	37	c.bc	bc.c.op.o	1·5
England, E.	Felixstowe	0·3	42	36	bc	cp	1·3
England, E.	Walton-on-Naze	0·3	41	36	c.bc	o.cp.c.	1·5
England, E.	Southend-on-Sea	–	43	36	o	o.bc.o	0·6
England, S.E.	Tunbridge Wells	–	40	35	m o	o	0·0
England, S.E.	Margate	0·3	43	39	o	o	0·0
England, S.E.	Ramsgate	2	40	32	o	o	0·0
England, S.E.	Folkestone	1	46	39	mr.o	m.o.bc.o	0·0
England, S.E.	Hastings	–	41	37	o	o	0·0
England, S.E.	Bexhill-on-Sea	–	47	38	o	o	0·0
England, S.E.	Eastbourne	–	42	35	o	o	0·0
England, S.E.	Seaford	–	41	37	o	o	0·0
England, S.E.	Brighton	–	41	37	o	o.c.o	0·0
England, S.E.	Worthing	–	41	37	o	o	0·0
England, S.E.	Littlehampton	–	40	32	o	o	0·0
England, S.E.	Bognor	0·3	41	36	o	o	0·0
England, S.E.	Southsea	–	42	38	o	o	0·0
England, S.E.	Bournemouth	–	41	36	o.c	o.c	0·4
England, S.W.	Weymouth	–	41	35	cm	cm	0·0
England, S.W.	Torquay	–	43	33	b	bc.c.o	0·7
England, S.W.	Paignton	–	42	29	c.bc	cm	1·2
England, S.W.	Falmouth	–	42	35	o.bc	c.bc	1·5
England, S.W.	Penzance	–	45	31	b	bc	4·1
England, S.W.	Newquay	–	44	30	bcx.bx	cz	3·5
England, S.W.	Ilfracombe	–	43	32	o	o	0·1
England, S.W.	Weston-super-Mare	–	41	38	m	m	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.)	81	99	0·0	40	31	27	–	o	o	ofx
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	91	0·0	42	?	30	–	o	o	of
Camden Sq. (Brit. Rainfall)	74	100	0·5	42	32	27	–	o	c	*
Hampstead (Reservoir)	*	92	0·0	39	29	21	–	o	o	ocx
Richmond Park	*	*	6·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	73	86	0·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
203 Joules	6·5 Milliwatts.	18 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 9 p.m.	–	36	28	21	bx.c	cxz	c	*
Darwen to 9 p.m.								
Manchester ,,	–	39	29	*	bw.cfx	f.o	ofe	0·0
Birmingham ,,					*			
Oxford to 9 p.m.	*	40	35	27	o	o	c	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6p.m.)	Trace	44	38	35	o.c.o	o	o.c.o	*

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

26th & 27th Jan., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·47 / 7·46	12·6	4·24
Greenwich	7·50 / 7·49	12·13 / 12·13	4·25 / 4·37
Wick	8·34 / 8·32	12·25	4·15 / 4·17
Valencia	8·33 / 8·32	12·54 / 12·54	5·14 / 5·16

NOTES ON YESTERDAY'S WEATHER.

Temperature rose little above 40° over the United Kingdom generally, and only to 34° at Eskdalemuir As a rule there was very little bright sunshine, but some places in the south-west, west and north of Great Britain recorded a few hours.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 27

Wednesday 27th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rain-fall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1004·8	42	S	4	bcm	1007·6	0	35	-5	-	0	-	bcm	0	1	43	34	bc	bcm	cm	*
	Deerness ...	1004·4	31	S	3	b	1006·8	*	40	+1	S	2	-	o	2	-	41	38	o.c. bc	bc. b	b bc.c o	1·2
	Stornoway ...	1002·3	38	SSW	1	c	1005·1	+1	28	-9	W	1	-	bz	1	-	42	27	c. oz	o. cz	b bz	e·o
	Castlebay (Barra Isd.)	1000·7	41	SE	5	cm	1003·5	+1	40	-3	ESE	5	-	o	5	1	43	38	op. om	om	om. c o	c·3
	Glasgow ...	1003·9	32	ENE	2	b	1005·7	+2	34	+3	E	2	-	o	*	-	36	29	bz	c.o. bc. b	c o	1·8
	Eskdalemuir ...	1006·0	29	SE	1	b	1005·9	+1	33	+12	NNE	1	-	o	*	-	36	20	bma c.o	c. bc. b	om·o	1·4
	Malin Head ...	997·9	37	SE	6	cm	1001·4	+3	37	+1	SE	4	SE	cm	3	-	39	34	bc	cm	cm	1·6
	Blacksod Point	992·9	41	S	4	c	997·1	+4	40	+2	SSE	5	S	cm	5	1	41	36	bcm	bc	cm. c cm	*
	Valencia ...	986·8	48	ESE	5	c	992·5	+3	45	+3	E	5	-	od	4	18	47	42	cmr	cmr	c. b.	0·0
	Roche's Point	991·8	46	SE	7	r	996·4	*	43	-1	ESE	6	-	o	6	7	47	38	ogfq. c	or	r. o	*
	Birr Castle ...	993·4	43	SSE	5	o	998·5	*	39	+2	E	2	-	c	*	2	46	36	or	op	c	2·5
	Donaghadee ...	999·6	40	SE	5	bcm	1002·8	+1	39	0	SE	5	-	ogm	4	-	41	38	cm	bcm	bcf. om	*
	Liverpool (Bidston)	1002·7	36	SE	3	o	1003·2	+1	36	+2	ESE	2	-	o	3	-	38	32	bm	bm	bc. o	5·1
	Holyhead ...	999·7	39	E	4	bm	1001·5	+1	35	+1	E	4	-	bc	3	-	44	33	c. bc. bm	bm.	bc	6·0
	Pembroke (St. Ann's)	996·7	43	SE	5	b	998·4	0	38	-2	E	5	E	bmq	4	0·2	43	36	oqp	cqp	bq	0·0
	Scilly (St. Mary's)	992·1	45	SE	7	cmr	992·9	+1	42	-1	ESE	6	SE	cm	6	1	48	40	c. bc	cmq. p	cmq. p	3·4
	Falmouth ...	995·5	45	SE	4	o	995·7	0	41	-3	SE	5	-	o	5	4	46	40	r. bc	c. bc. o	oq	2·8
	Jersey (St. Aubin)	1000·7	42	ESE	4	b	996·5	*	35	-7	E	5	-	ogm	4	-	42	34	c. bc. b	b	bc. ogm	6·3
	Portland Bill ...	1000·8	41	SE	4	bc	997·9	-2	39	-3	ENE	6	-	or	5	1	44	38	bc	bc	er	*
	Dungeness ...	1002·8	39	NE	3	c	1000·6	-1	37	+5	E	5	-	ou	4	-	40	31	bc	bc. o	o c o	*
	Dover	1003·4	38	-	0	o	1001·9	0	35	0	ENE	4	E	o	6	1	40	34	c. od. r. e	o	o. ed o. c	0·0
	Wick	1004·6	39	SW	1	m	1006·6	0	40	+8	S	3	-	m	3	-	40	32	bcm	bcm	bcm	*
	Nairn	1004·2	29	-	0	cmr	1006·4	*	27	+1	-	0	-	og	1	0·1	33	25	bcm	bcm	cmr	1·5
	Aberdeen ...	1005·7	37	S	2	bz	1007·0	o	33	+3	-	0	-	oz	2	Trace	38	30	3. bz	bz	bcz. sp	0·3
	Leith	1004·6	33	SE	1	b	1005·8	0	35	+5	ESE	1	-	o	*	-	38	27	f. bcz	bz	bc. c	*
	Tynemouth ...	1004·1	38	E	3	cm	1004·6	0	39	+9	ESE	2	-	cp	2	2	39	29	f	f	cp	*
	Spurn Head ...	1004·8	37	ESE	2	bc	1003·3	-1	39	+1	ESE	4	-	bcq	4	-	42	36	o. c	bc	bc	3·4
	Yarmouth ...	1003·6	39	NE	3	om	1004·1	+1	37	0	E	6	E	oq	4	0·2	41	35	o	o	c. o	0·0
	Clacton-on Sea	?	38	E	1	c	?	0	38	+2	ENE	4	E	o	3	0·2	39	35	o	o. c	cp. o	0·0
	Nottingham ...	1004·1	38	ESE	2	o	1003·5	*	35	o	E	2	E	o	*	-	42	35	o. c	c. o	o. c	2·4
	Bath	1002·3	39	E	1	o	1001·1	*	36	+9	E	3	E	o	*	-	42	27	b. bc. c	bc c. o	o	3·6
	London (Kew Obsy.)	1003·4	39	SE	2	om	1001·4	-1	37	+3	E	4	E	om	*	0·2	40	32	fca bcjez	cf. om	omr. om	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1021·9	-9	-	o	b	1020·6	*	-9	+2	J	2	*	b	*	*	-8	-15				
	Isafjord... ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1010·9	19	NW	5	o	1010·0	-2	19	-2	NW	5	-	c	3	*	21	18				
	Bodö	1012·6	23	E	2	b	1010·6	o	21	-2	E	4	-	bc	2	1	39	19				
	Christiansund	1008·2	37	E	1	c	1008·6	o	36	-3	SE	1	-	c	3	-	41	36				
	Skudesnaes ..	1009·3	36	-	o	b	1009·1	o	36	+2	W	3	-	o	2	-	37	32				
	Færder (Christiania Fjord)	1004·6	28	NE	3	o	1010·3	o	23	-7	NE	4	-	bc	2	-	30	23				
	The Scaw (Skagen)	1007·9	28	ENE	3	o	1008·6	o	23	-11	NE	3	-	o	2	-	34	23				
	Blaavands Huk	1005·5	34	N	1	o	1007·8	? o	28	-2	ENE	1	-	o	2	-	34	23				
	Haparanda ...	1013·1	5	N	2	bc	1014·1	o	1		N	4	-	o	*	Trace	21	0				
	Hernösand ...	1009·9	21	N	4	o	1012·7	+1	14		N	2	N	bc	*	-	23	14				
	Stockholm ...	1003·7	25	NNW	4	s	1004·7	o	25		N	6	-	o	*	Trace	30	23				
	Wisby	1000·8	30	NNE	8	o	1001·9	+3	27		N	8	-	o	*	6	34	27				
	Karlstad	1009·3	23	NE	2	o	1009·5	o	19		NNE	2	-	o	*	-	23	18				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1003·9	37	ENE	2	o	1005·1	o	34	-2	ENE	2	-	o	o	-	39	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1003·3	36	E	2	o	1000·8	o	33	-2	E	5	*	o	3	1	39	32				
	La Hève	1001·2	36	ESE	2	m	998·9	*	30	-4	ESE	2	*	m	1	-	41	30				
	Ushant							*					*									
	Brest (St. Mathieu)	996·2	41	SSE	5	c	992·4	o	38	-8	E	4	*	o	5	-	50	37				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1001·2	45	WSW	2	b	992·7	o	45	+3	NW	3	*	r	4	2	50	41				
	Paris	1003·5	32	NNE	2	o	998·9	-2	32	o	ENE	1	-	o	*	-	34	30				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*		*							
	Perpignan ..														*							
	Sanguinaire ...	992·0	46	E	2	m	990·6	*	46	+1	W	4	*	m	5	2	50	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1027·3	*	W	3	o							*									
	Madeira (Funchal)	1020·6	63	NW	4	bc	1019·3	o	57	o	NW	4	N	b	4	-	64	55				

GALES.

Duration and Extreme Force in British Islands.

Roche's Point

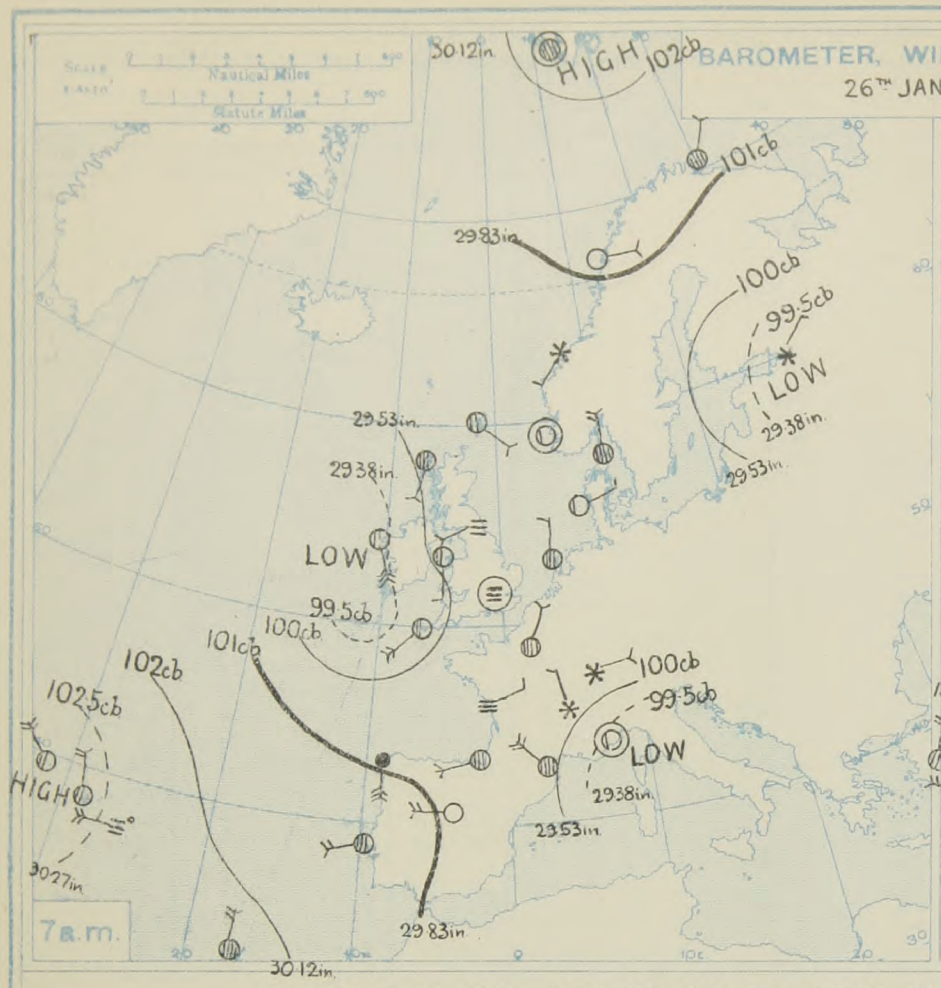
26th. 7 p.m. – 27th. early morning SE 8

Scilly

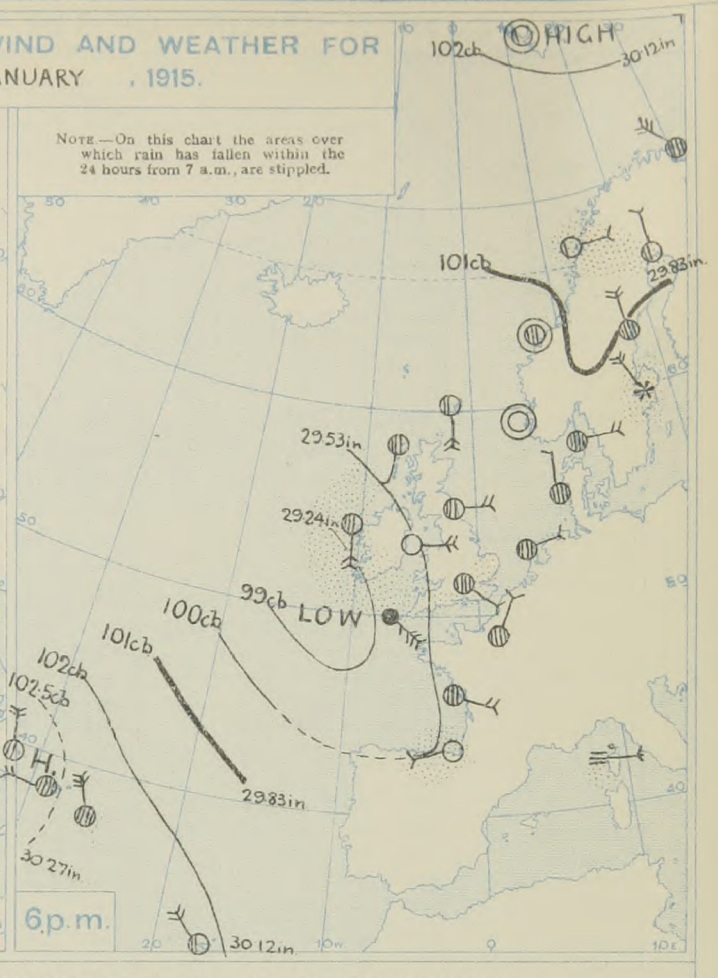
26th. 5 p.m. Sq. SE 8

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

BAROMETER, WIND AND WEATHER FOR 26TH JANUARY, 1915.

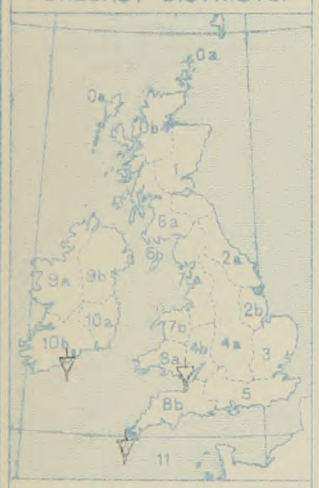


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted

2.10 p.m.

0	a, b	Light winds between South and South-East; sky variable, some mist; no great change of temperature.
1		Light winds between South and South-East; mostly cloudy or overcast, some rain; temperature moderately low.
2	a, b	Easterly winds, moderate to strong; mostly overcast, some rain; no important change of temperature.
3		
4	a, b	
5		
6	a, b	Same as No. 0.
7	a, b	Light to fresh Easterly winds: cloudy or overcast, fairer at times; moderate temperature.
8	a, b	Same as Nos. 2 to 5.
9	a, b	Same as No. 7.
10	a, b	Easterly winds, moderate or fresh; much cloud, some rain locally; moderate temperature.
Western Channel and Bay	11	Easterly winds, moderate to strong; sea rather rough; much cloud, some rain.

Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

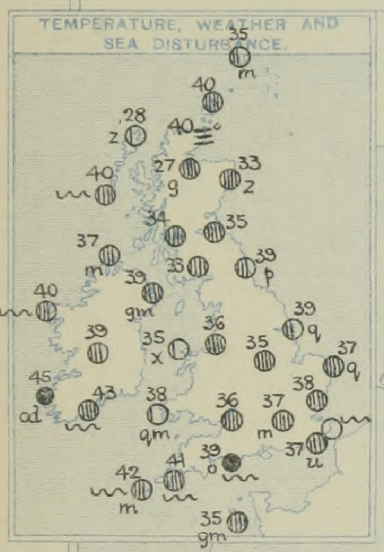
FURTHER OUTLOOK.

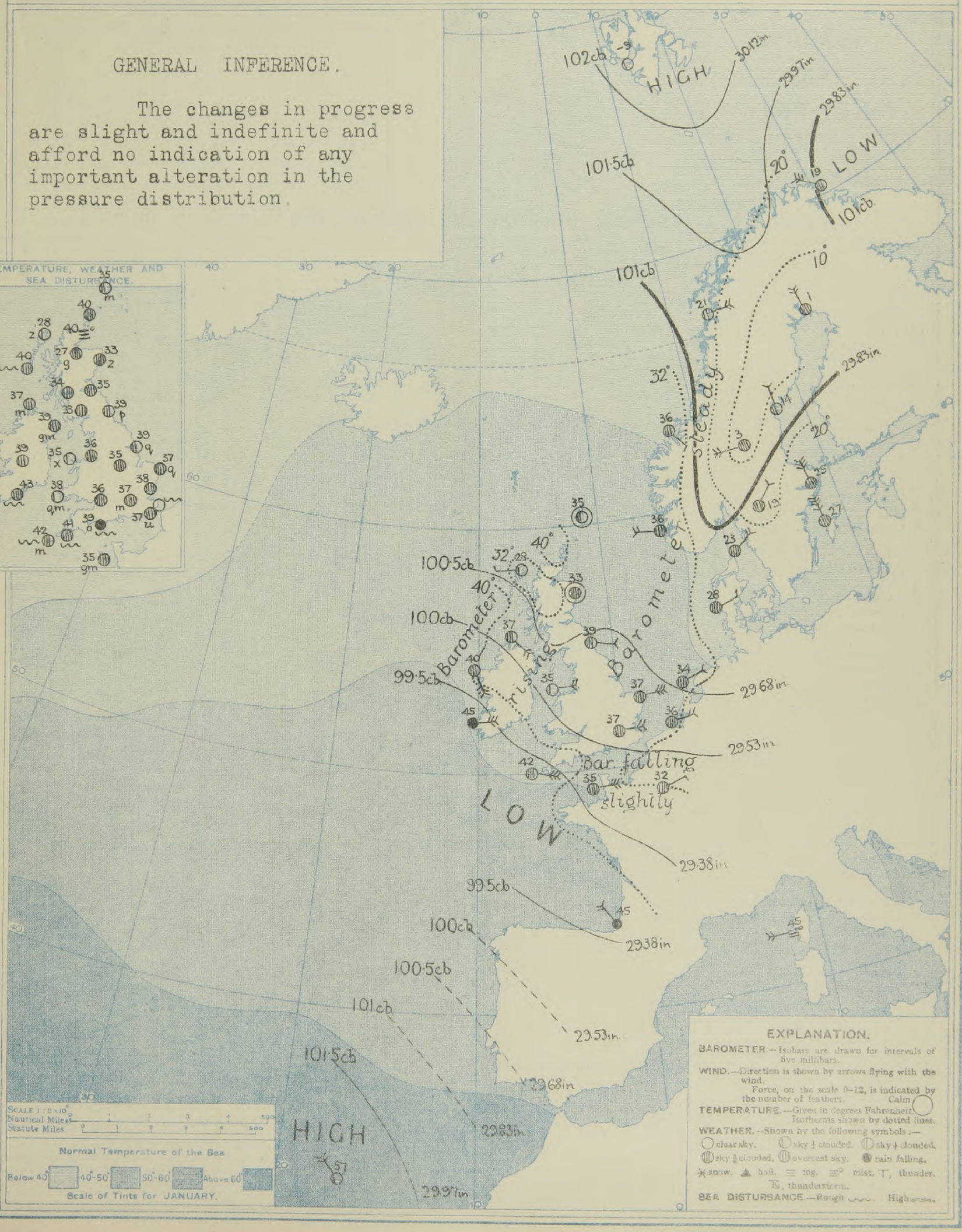
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 27TH JANUARY, 1915.

GENERAL INFERENCE.

The changes in progress are slight and indefinite and afford no indication of any important alteration in the pressure distribution.





DAILY WEATHER REPORT. Wednesday, 27th January, 1915.

REPORTS FOR YESTERDAY.

26th January 1915

STATIONS.	EVENING OBSERVATIONS, Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Spitsbergen	1024·4	-8	ESE	4	bc	1024·6	*	-11	-9	—	0	*	0	*	*	9	-16
Vardö	1007·7	25	W	3	s	1011·3	+2	21	-9	NNE	2	—	0	3	*	30	13
Petrograd	1005·6	25	SW	1	s	993·6	0	23	0	NE	1	—	s	*	6	25	23
Lisbon	1011·7	50	WNW	5	bc	1014·6	-2	46	-6	WSW	3	—	c	?	Trace	52	46
Horta	.	.	.	.	.	1026·3	+1	55	+3	NNW	3	*	bc	3	1	57	52

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	40	36	og bc	c.o	1·0
Scotland.	Banff	–	37	26	x.og bc	bcg	0·5
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	37	29	o.c	bc.c.o	1·0
Eng. N.E.	Scarborough	*	41	37	o.c	of	0·1
Eng. N.E.	Skegness	–	40	35	o.bc	bc.c	0·3
Eng. N.W.	Morecambe	–	41	31	of bc	bc.o	3·2
Eng. N.W.	Blackpool	–	40	26	m.c	bc	6·0
Eng. N.W.	Southport	–	40	29	b	b bc b	6·0
Midlands.	Buxton	–	36	29	bc	bc	1·8
Midlands.	Leamington Spa	–	41	31	bcf	bc	1·5
Midlands.	Malvern	–	36	36	m	bc	1·9
Midlands.	Ross-on-Wye						
Wales.	Rhyl	–	40	29	b	b	6·8
Wales.	Colwyn Bay	–	41	31	bc.bg	bg	7·2
Wales.	Llandudno	–	41	35	b	b	7·0
Wales.	Aberystwyth	–	42	34	o.c.b	bc.c	6·2
Wales.	Tenby	–	43	37	bc	bc.c	5·0
Wales.	Swansea	–	42	35	c.b	b	5·3
England. E.	Cromer	0·3	40	37	o.c	o.c	0·0
England. E.	Lowestoft	–	42	35	c.o.c	c	0·0
England. E.	Felixstowe	2	40	36	cp	c	0·0
England. E.	Walton-on-Naze	1	39	35	c.o.c	o.c	0·0
England. E.	Southend-on-Sea	–	42	34	c.bc	bc.c.o	2·4
England. S.E.	Tunbridge Wells	–	41	29	f.bc b	b bc.c.o	3·3
England. S.E.	Margate	!	43	37	bc.c	c	0·0
England. S.E.	Ramsgate	!	39	35	o	o	0·0
England. S.E.	Folkestone	–	40	34	o	o	0·0
England. S.E.	Hastings	–	41	32	b.bc	bc.c	4·1
England. S.E.	Bexhill-on-Sea	–	47	39	o	o	0·0
England. S.E.	Eastbourne	–	41	32	b.bc.o	o	1·4
England. S.E.	Seaford	–	43	31	c	c	2·6
England. S.E.	Brighton	–	42	33	c	c	3·9
England. S.E.	Worthing	–	42	34	b.bc	bc.c	3·9
England. S.E.	Littlehampton	–	40	29	b.bc	bc.c	3·4
England. S.E.	Bognor	–	41	34	bc	c	2·3
England. S.E.	Southsea	–	41	33	om	o	0·3
England. S.E.	Bournemouth	–	44	29	bc	bc.o	2·8
England. S.W.	Weymouth	0·3	44	33	o.bc	bc	2·0
England. S.W.	Torquay	–	47	40	bc	bc.c	5·9
England. S.W.	Paignton	0·3	48	38	bc	bc	5·5
England. S.W.	Falmouth	4	46	35	r.bc	c.bc.o	2·8
England. S.W.	Penzance	2	47	36	bc	bc.or	3·8
England. S.W.	Newquay	3	46	33	cp.bc	b.bc.c	3·4
England. S.W.	Ilfracombe	–	47	36	b	b	7·1
England. S.W.	Weston-super-Mare	–	43	28	bc	b.bc	0·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.)	74	79	5·9	42	33	31	1	b	b.c o	o.od.o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	78	0·0	42	?	22	1	f.bc	m.om	o
Camden Sq. (Brit. Rainfall)	86	76	0·0	39	33	33	0·3	o	o	*
Hampstead (Reservoir)	*	66	0·0	38	30	27	–	c.of	o	o
Richmond Park	*	*	2·5							
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
109 Joules	3·5 Milliwatts.	12 Milliwatts.

S. Kensington (Roof of M.O.)	70	72	0·0

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	–	36	30	25	bc	bc	bc	2·3
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*	39	31	24	c.of	f	c.o	*
Teignmouth to 9pm.	–	48	40	39	c.bc	bc	bc	4·5
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	41	35	29	o.of	ogf.om	og.om	*

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

27th & 28th Jan., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7 46	12.6	4.26
	7 44	12.6	4.28
Greenwich	7.49	12.13	4.37
	7.47	12.13	4.39
Wick	8.32	12.35	4.17
	8.30	12.35	4.19
Valencia	8.32	12.54	5.16
	9.30	12.54	5.18

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to a little above 40° in most districts. A considerable quantity of rain fell at Valencia, very little or none elsewhere. Much bright sunshine was recorded at some stations in the west and south-west, about 7 hours in North Wales.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 28

Thursday, 28th January, 1915.

DATE.	STATIONS	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1006·9	40	SSW	2	cm	1003·9	−1	41	+6	WSW	1	–	om	1	–	42	34	cm	cm	cm.om	*
	Deerness ...	1006·4	40	S	2	o	1005·1	*	39	−1	W	2	–	ogz	3	–	42	35	o	o	o	0·0
	Stornoway ...	1006·3	42	N	1	by	1006·0	o	36	+8	–	o	–	oz	o	–	38	29	by	by	oz	3·2
	Castlebay (Barra Isd.)	1004·8	41	SE	5	o	1005·1	o	41	+1	SSE	4	–	o	4	–	42	39	c	c	c	0·0
	Glasgow ...	1006·3	35	E	2	o	1007·0	o	34	o	ENE	1	–	o	*	–	38	32	o.bc.oz	o	ome	1·6
	Eskdalemuir ...	1006·2	33	ENE	2	o	1007·0	o	31	−2	N	1	–	o	*	–	36	31	o	o	o	0·4
	Malin Head ...	1003·4	38	ESE	3	cm	1005·5	o	35	−2	SE	2	–	om	2	–	38	35	cm	cm	cm	0·0
	Blacksod Point	1000·2	37	SE	5	bcm	1003·2	o	35	−5	SE	4	SE	bc	3	–	40	33	bc	bcm	bcm	*
	Valencia ...	997·6	41	E	4	b	1000·3	+1	40	−5	E	3	–	o	4	1	46	39	c	bc	c	2·0
	Roche's Point	999·5	42	ESE	5	r	1002·7	*	39	−4	ESE	4	–	o	4	1	44	38	ogz	ogr	o	*
	Birr Castle ...	1001·5	38	E	1	o	1003·8	*	35	−4	SE	1	–	o	*	–	40	34	c.o	o	o	2·7
	Donaghadee ...	1003·5	39	SE	4	ogm	1005·0	o	38	−1	SSE	2	–	ogm	2	–	40	36	cgm	ogm	cgm	*
	Liverpool (Bidston)	1004·5	35	ESE	2	o	1006·2	+2	35	−1	E	2	E	om	2	–	37	34	cm	om	ome	0·0
	Holyhead ...	1002·8	36*	E	5	by	1005·4	+1	36	+1	SSE	2	–	om	1	–	39	31	b.bc.c.o	o.c.bc.b	bc.om	2·2
	Pembroke (St. Ann's)	999·6	37	E	4	o	1003·8	+1	34	−4	E	4	–	oq	3	0·1	39	33	bq	cgq	oq	0·3
	Scilly (St. Mary's)	996·1	41	E	6	omq	999·8	+1	39	−3	E	4	SE	om	6	–	44	38	omq	omq	omq.om	1·4
	Falmouth ...	997·5	40	E	4	o	1001·3	+2	36	−5	NE	4	–	o	4	–	44	36	o	o	o	0·0
	Jersey (St. Aubin)	996·9	36	E	5	ogr	1001·1	*	34	−1	E	4	–	o	4	–	37	33	ogr	ogr	ogr.o	0·0
	Portland Bill ...	999·0	38	ENE	6	o	1002·0	+1	35	−4	NE	5	NE	o	4	0·3	40	34	or	ou	o	*
	Dungeness ...	1000·6	37	E	6	o	1002·6	+1	34	−3	E	4	–	o	4	–	37	34	o.c.o	o.c.o	o.c.o	*
	Dover	1001·8	35	ENE	4	c	1003·7	+1	33	−2	NE	4	NE	osp	4	–	35	32	o.c	c	c.oc	0·0
	Wick	1006·8	34	SSW	2	o	1005·7	−2	35	−5	W	1	–	o	2	–	42	32	bcm.o	am.c	om	*
	Nairn	1006·8	29	–	0	c	1006·0	*	33	+6	–	o	–	ou	o	–	36	26	bcm	bcm	m.oc.o	6·3
	Aberdeen ...	1007·1	36	–	0	ogr	1006·7	o	34	+1	W	1	–	om	2	6	37	33	ogr.or	c.ogr	ogr	0·0
	Leith	1006·3	38	SSE	1	o	1006·3	o	36	+1	W	1	–	oz	*	–	40	33	o.c	c.o	o	*
	Tynemouth ...	1005·3	39	SE	3	c	1006·0	o	36	−3	NNW	1	–	om	3	1	40	35	c/o	c/o	om	*
	Spurn Head ...	1003·3	36	ESE	4	c	1005·6	o	36	−3	E	4	–	c	4	–	40	33	bc.o	c	c	0·3
	Yarmouth ...	1003·4	37	E	6	o	1004·7	o	36	−1	NE	4	NE	o	2	–	38	34	o	o	o	1·0
	Clacton-on-Sea	?	37	ENE	4	o	?	o	35	−3	ENE	3	E	o	3	–	38	34	o	o	o	0·0
	Nottingham ...	1004·0	36	NE	1	o	1005·7	*	34	−1	NE	1	NE	o	*	–	37	32	o.c	o	o	0·0
	Bath	1001·5	36	E	1	o	1005·0	*	32	−4	E	2	E	o	*	–	38	32	og	og	og	0·0
	London (Kew Obsy.)	1002·5	36	NE	2	om	1004·6	+2	34	−3	NE	3	–	om	*	–	38	33	om	om	om	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1015·8	−18	SSE	4	b	1013·5	*	−11	−2	/	o	*	s	*	*	−9	−2.0				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1009·5	14	–	o	b	1007·7	−1	12	−7	SW	2	–	b	3	*	19	12				
	Bodö	1005·0	21	E	4	b	995·3	+5	19	−2	E	6	–	s	2	?	21	18				
	Christiansund	1005·0	37	–	o	o	995·4	−5	36	o	SW	7	–	o	5	6	37	36				
	Skudesnaes ..	1006·7	37	SSE	4	r	1003·9	−2	30	−6	SE	8	–	s	4	?	37	30				
	Færder (Christiania Fjord)	1004·0	28	ENE	2	o	1006·4	−2	21	−2	SSE	1	–	o	1	–	25	21				
	The Scaw (Skagen)	1007·8	27	NE	4	o	? 1005·9	−3	23	o	E	2	–	o	1	–	28	21				
	Blaavands Huk	1007·1	27	ENE	1	o	1005·7	o	25	−3	E	1	–	o	2	–	30	23				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1004·7	32	E	3	o	1004·8	o	30	−4	NE	3	–	o	1	–	36	30				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1000·7	33	ENE	6	c	?	+1	30	−3	E	5	*	o	3	–	34	28				
	La Hève	998·4	30	ESE	3	m	1001·5	*	27	−3	NE	2	*	m	1	–	39	25				
	Ushant	997·3	37	ESE	3	o	1000·6	*	37	?	ESE	3	*	c	5	–	41	34				
	Brest (St. Mathieu)	996·7	42	SE	4	o	1000·8	+1	34	−4	E	3	*	o	5	–	46	34				
	Rochefort (Ile d'Aix)	992·4	35	ENE	5	o	996·6	+2	30	−2	ENE	4	*	b	*	–	39	30				
	Biarritz	991·7	48	W	5	o	997·2	+3	32	−13	E	1	*	s	5	10	48	32				
	Paris														*							
	Belfort							*					o		*							
	Lyons	991·5	31	NNW	4	o	993·0	*	26	−4	NNW	4	*	o	*	–	33	25				
	Nice	985·0	39	–	o	o	986·9	+2	30	−4	–	o	*	s	?	2	46	30				
	Perpignan ..	988·2	39	W	2	r	989·1	+1	34	+6	NW	5	–	b	*	7	45	28				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	995·1	41	SW	4	o	995·8	o	41	+2	W	2	–	r	5	33	45	39				
	Madrid (8 a.m.)	998·3	37	W	1	c	997·7	−1	28	−6	–	o	–	b	*	?	41	27				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1014·9	*	W	5	o							*									
	Madeira (Funchal)																					

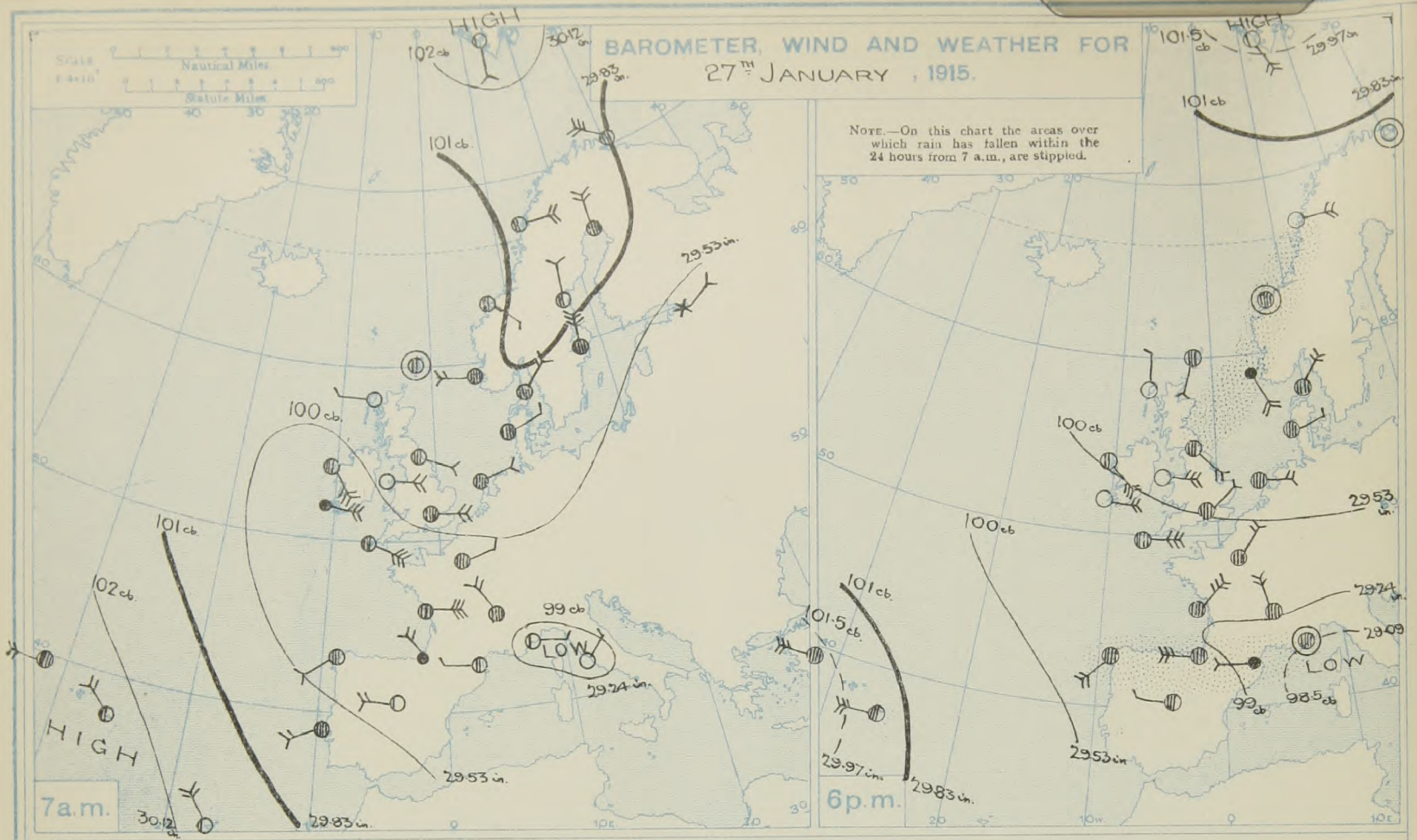
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

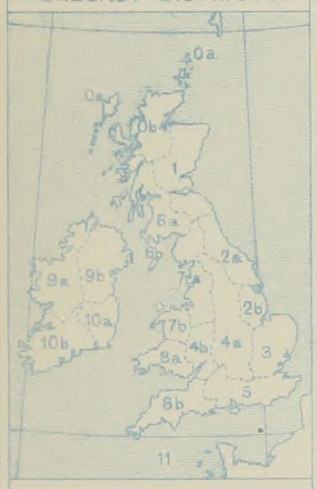
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 27TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay

0 {a, b}, 1 — Wind light, mainly Westerly; cloudy or overcast, then fairer; temperature rather low.

2 {a, b} — Variable or Easterly winds, light or moderate; cloudy or overcast generally, some mist; cool.

3 — Wind between East and North-East, light or moderate, fresh at times; cloudy or overcast, some slight snow; temperature low.

4 {a, b} — Same as No. 2.

5 — Same as No. 3.

6 {a, b}, 7 {a, b} — Light winds, variable or South-Easterly; mostly cloudy or overcast, then fairer; cold.

8 {a, b} — Easterly winds, moderate or light; cloudy or overcast generally, some mist; cold.

9 {a, b}, 10 {a, b} — Wind between East and South-East, light or moderate; much cloud, then fairer; cold.

11 — Easterly winds, moderate; sea rather rough to moderate; much cloud, some mist.

FURTHER OUTLOOK.

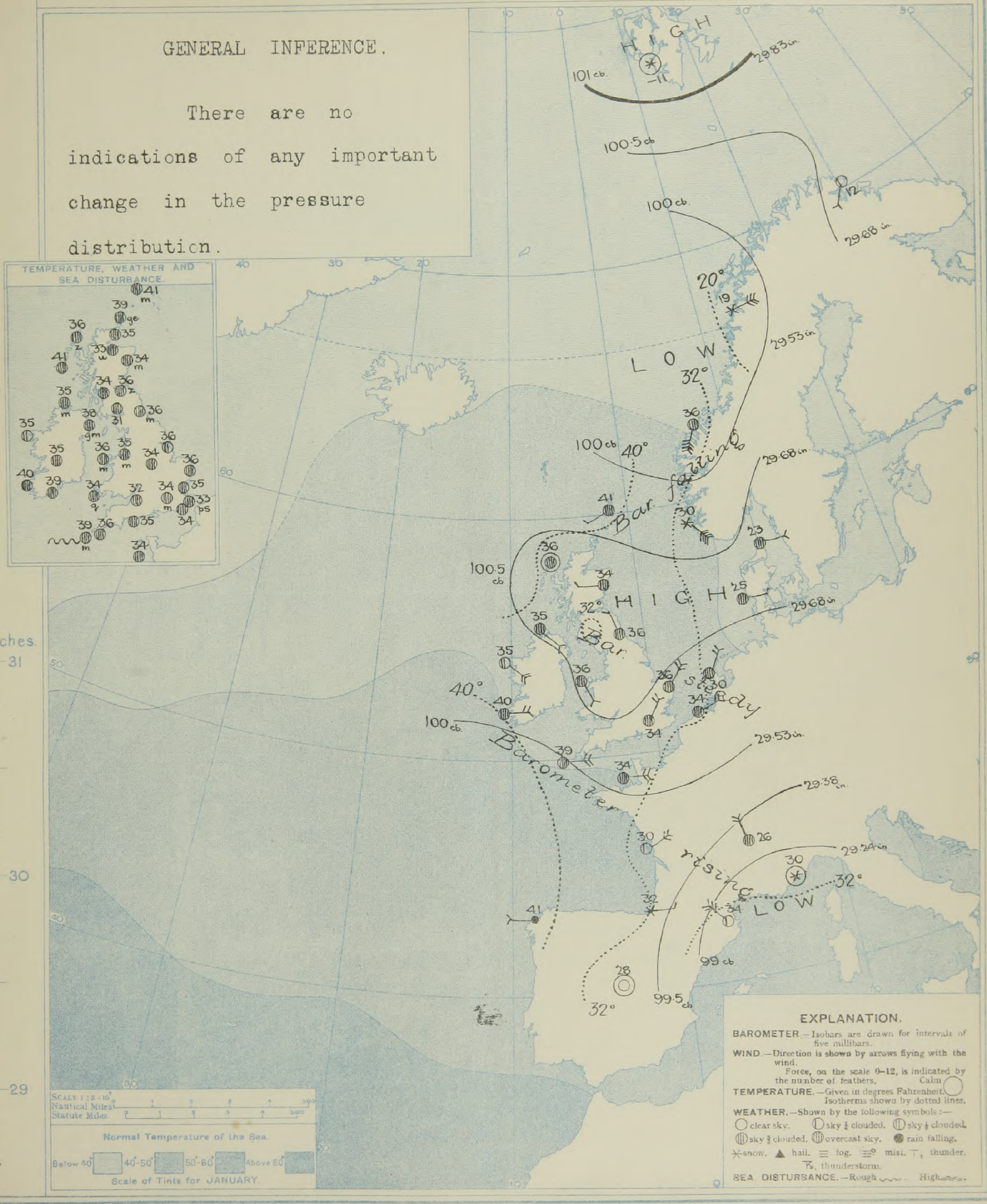
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 28TH JANUARY, 1915.

GENERAL INFERENCE.

There are no indications of any important change in the pressure distribution.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



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 ≈≈.

DAILY WEATHER REPORT. Thursday, 28th January, 1915.

REPORTS FOR YESTERDAY.

27th January 1915

STATIONS.	EVENING OBSERVATIONS, Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	995.4	23	NE	2	S	996.4	+1	21	-2	ENE	2	–	S	*	S	25	21
Ushant	993.3	33	SE	6	C	993.3	*	32	-15	ESE	5	*	C	5	–	48	32
Rochefort	1000.6	41	ESE	3	C	992.0	-2	32	0	E	6	*	0	*	–	46	30
Lyons	1003.3	31	NW	2	0	997.1	*	30	-2	NW	3	*	0	*	–	34	30
Nice	995.0	38	–	0	b	989.3	-1	34	-3	E	1	9	b	3	–	50	32
Perpignan	1000.3	45	W	4	b	992.3	-3	28	-15	W	1	SW	bc	*	–	48	28
Corunna	993.9	46	SW	4	r	996.3	0	30	-7	SW	3	–	c	6	27	52	39
Madrid	1008.4	41	WSW	2	0	999.7	+1	31	-2	W	3	–	b	*	4	43	32
Lisbon	1003.9	48	SSW	7	r	1003.5	-1	45	-1	WSW	3	–	0	–	8	55	41
Rome	992.8	46	S	1	0	989.9	0	41		NE	1	–	b	*	3	52	41

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	38	26	x bc	c.o	0·2
Scotland.	St. Andrews	–	39	27	*	*	0·0
Eng. N.E.	Harrogate	1	36	21	o.c	o.c	0·0
Eng. N.E.	Scarborough	*	41	36	o.c	o	0·2
Eng. N.E.	Skegness	1	39	34	o	o	0·0
Eng. N.W.	Morecambe	–	39	35	bc	bc.o	1·0
Eng. N.W.	Blackpool	–	38	32	c	c.o.c	0·5
Eng. N.W.	Southport	–	42	33	o3.c	c.o	0·0
Midlands.	Buxton	1	35	31	c	c	0·0
Midlands.	Leamington Spa	–	38	32	c	c	0·0
Midlands.	Malvern	–	38	32	3	3	0·0
Midlands.	Ross-on-Wye	–	36	31	o	o	0·0
Wales.	Rhyl	–	37	32	o	o	0·6
Wales.	Colwyn Bay	–	37	21	c.bc	bc.c	3·5
Wales.	Llandudno	–	38	25	o	o	0·1
Wales.	Aberystwyth	–	40	35	o.c.o	c.o	1·5
Wales.	Tenby	–	40	38	bc	bc.o	0·3
Wales.	Swansea	–	40	36	o.bc.o	0g	1·6
England. E.	Cromer	1	38	35	o.c	o.ch o.c	e·0
England. E.	Lowestoft	1	38	36	c	c.o.c	0·8
England. E.	Felixstowe	0·3	38	35	cg	cg	0·0
England. E.	Walton-on-Naze	–	37	35	o.cg	o.cg	0·0
England. E.	Southend-on-Sea	–	37	35	o	o	0·0
England. S.E.	Tunbridge Wells	1	35	33	o	o	0·0
England. S.E.	Margate	0·3	37	35	o	o	0·0
England. S.E.	Ramsgate	1	35	33	o	o	0·0
England. S.E.	Folkestone	0·3	38	35	o	o	0·0
England. S.E.	Hastings	–	39	34	o	o	0·0
England. S.E.	Bexhill-on-Sea	2	44	36	o	o	0·0
England. S.E.	Eastbourne	–	38	36	o	o	0·0
England. S.E.	Seaford	–	38	34	o	o	0·0
England. S.E.	Brighton	–	37	?	o.c	c.o	0·0
England. S.E.	Worthing	–	36	35	o	o	0·0
England. S.E.	Littlehampton	–	39	*	o	o	0·0
England. S.E.	Bognor	1	37	34	o	o	0·0
England. S.E.	Southsea	–	37	35	o	o	0·0
England. S.E.	Bournemouth	0·3	37	35	o	o	0·0
England. S.W.	Weymouth	–	37	35	o	o	0·0
England. S.W.	Torquay	1	39	38	o	sp o	0·0
England. S.W.	Paignton						
England. S.W.	Falmouth	–	41	40	o	o	0·0
England. S.W.	Penzance	1	42	41	c	o	0·0
England. S.W.	Newquay	–	43	36	o	o	0·0
England. S.W.	Ilfracombe	–	45	35	o	o	0·5
England. S.W.	Weston-super-Mare	–	41	33	bc.b	b bc.	0·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	79	97	0·0	36	33	30	–	o	o	o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	86	0·0	39	?	31	–	o	o	o
Camden Sq. (Brit. Rainfall)	82	79	0·0	37	32	30	–	o	o	*
Hampstead (Reservoir)	*	97	0·0	36	27	24	–	of. o	o	oc. o
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	76	73	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
57 Joules	1·8 Milliwatts.	4 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	–	42	38	36	q c.o	c.o	c.o	*
Darwen to 9 p.m.	–	35	31	26	bcu	cu	cu.o	0·0
Manchester "	Trace	37	34	*	c or	o	o	0·0
Birmingham "	–	35	32	28	o	o	o	0·0
Oxford to 9 p.m.	*	38	31	26	o	o	o	*
Teignmouth to 9pm.								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	0·2	40	36	35	o	om	om	*

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

28th & 29th Jan. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.44 / 7.42	12.6 / 12.6	4.28 / 4.30
Greenwich	7.47 / 7.46	12.13 / 12.13	4.39 / 4.41
Wick	8.30 / 8.28	12.25 / 12.25	4.19 / 4.22
Valencia	8.30 / 8.28	12.54 / 12.54	5.18 / 5.20

NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 40° over a large area, and only touched 35° at Nairn. As a whole the weather was dry, but at Aberdeen rain fell during several hours. Scarcely any bright sunshine was recorded except at Nairn and a few places in the north-west

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 29

Friday, 29th January 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1002·8	41	N	6	c	1008·0	+1	40	−1	NNE	5	–	o	4	1	42	35	cm	cmp	bc c	*
	Deerness ...	1003·7	40	NW	3	cp	1008·8	*	38	−1	N	4	–	o	3	1	41	35	o	cp	cp. o	0·0
	Stornoway ...	1007·0	38	W	2	cg	1009·7	+1	36	0	NW	1	NW	c	1	1	39	35	cg	cg	0. cdp	0·0
	Castlebay (Barra Isd.)	1006·6	41	–	0	0	1008·8	+1	40	−1	N	1	–	o	2	–	42	37	o	o	o. cm. o	0·0
	Glasgow ...	1007·4	35	W	1	o	1008·9	+1	34	0	SE	4	–	ogf	*	–	36	30	cf	cf	cf. bc. o	0·0
	Eskdalemuir ...	1007·3	32	–	0	0	1008·5	+1	33	+2	N	1	–	c	*	0·1	34	26	o	o	o. c	0·0
	Malin Head ...	1006·8	36	SSW	2	cm	1009·0	+1	36	+1	S	1	S	bcm	2	–	37	34	cm	cm	bcm	0·0
	Blacksod Point	1006·1	35	SE	4	bcg	1008·2	0	33	−2	SSE	3	SE	bcg	2	–	40	29	bcm	bg	bg. bcg	*
	Valencia ...	1003·0	40	ENE	4	o	1006·4	+2	40	0	E	3	–	o	4	–	42	38	cg	cg	cm	0·2
	Roche's Point	1004·8	40	E	3	o	1008·5	*	34	−5	ESE	3	–	o	3	–	41	32	cg	o	o	*
	Birr Castle ...	1006·6	35	SE	1	o	1009·1	*	30	−5	SE	1	–	c	*	–	36	29	o	o	c	0·0
	Donaghadee ...	1006·5	36	SE	2	cgm	1009·0	o	34	−4	W	2	–	cf	1	–	39	33	cgm	cgm	cmg. cf	*
	Liverpool (Bidston)	1007·6	35	–	o	o	1008·3	−1	36	+1	WNW	1	–	c	1	–	36	33	cg	cgz	bcz	0·0
	Holyhead ...	1007·3	35	E	2	cmp	1008·6	o	36	o	SW	2	–	cm	o	–	37	34	cm	cm	cm. cm	0·0
	Pembroke (St. Ann's)	1007·6	34	E	3	c	1008·9	+1	35	+1	NE	2	–	cg	2	–	36	33	cg	cg	c	0·1
	Scilly (St. Mary's)	1002·7	39	E	4	cm	1006·0	+1	38	−1	E	3	E	cm	4	0·3	41	37	cmp	cm	cmp. bc	0·0
	Falmouth ...	1004·2	36	NE	4	o	1007·4	+1	34	−2	NE	2	–	o	4	–	38	34	o	o	o	0·0
	Jersey (St. Aubin)	1002·7	36	ENE	4	bc	1006·7	*	29	−5	E	2	NE	c	2	–	37	28	c. bc	bc. b. c	0. c	1·9
	Portland Bill ...	1003·7	35	ENE	4	c	1006·7	o	33	−2	NE	2	–	o	3	–	37	32	c. o	c. o	c. o	*
	Dungeness ...	1003·9	33	E	5	c	1006·3	o	26	−8	N	1	–	bc	2	0·3	35	27	ofgs	ofgs. bc	bcm	*
	Dover	1005·2	32	ENE	3	bc	1006·7	o	32	−1	NW	2	E	bcz	2	–	33	24	ofgs. c	c. bc	bcz	0·1
	Wick	1004·8	37	W	2	o	1009·0	+2	36	+1	N	3	–	o	3	1	41	34	cm	cm	cmp. o	*
	Nairn	1006·5	36	W	1	cw	1009·2	*	33	0	–	0	–	bcp	1	0·14	37	32	cgm	cw	cg. c	0·0
	Aberdeen ...	1005·4	36	W	2	o	1008·2	+2	35	+1	WNW	3	–	c	2	1	38	34	o	o. c. o	cp. c	0·0
	Leith	1007·5	37	WSW	2	o	1008·1	+1	36	0	W	1	–	cg	*	–	38	34	cf. cg	cg	o	*
	Tynemouth ...	1006·4	36	W	2	f	1006·1	−1	35	−1	NNW	3	–	cm	3	–	36	34	cm	f	cm	*
	Spurn Head ...	1006·1	36	ESE	4	bc	1004·3	−2	35	+1	WNW	4	–	cg	4	–	40	34	c	bc	cg	0·1
	Yarmouth ...	1005·4	36	ENE	4	o	1005·14	−2	34	−2	W	2	–	o	1	–	37	33	0. c	c. o	o	0·0
	Clacton-on-Sea	?	34	E	2	o	?	o	34	−1	NNW	2	–	o	1	–	35	32	o	o	o	0·0
	Nottingham ...	1006·3	35	NE	2	o	1007·1	*	31	−3	WSW	1	SW	cm	*	–	37	31	o. c	c. o	o	0·0
	Bath	1005·9	35	E	1	o	1008·0	*	32	o	N	1	–	m	*	–	37	32	o	o	om	0·0
	London (Kew Obsy.)	1005·7	35	ENE	2	cm	1007·4	o	34	o	N	1	–	om	*	–	37	33	cmw	cm. cmam	am	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1010·3	−13	SE	2	b	1012·2	*	−22	−11	–	o	*	b	*	*	−6	−22				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1002·7	12	–	o	b	992·7	−3	27	+15	NE	4	–	c	3	*	?27	12				
	Bodö	995·4	14	E	4	o	996·8	o	16	−3	E	4	–	c	2	?	19	10				
	Christiansund	994·7	34	NW	5	s	998·3	o	30	−6	NE	4	–	c	4	16	37	30				
	Skudesnaes ..	996·0	36	NW	4	r	999·1	+1	32	+2	N	5	–	b	2	?	36	30				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	996·6	30	SW	4	o	991·9	+2	30	+7	ENE	4	–	bc	3	1	37	21				
	Blaavands Huk	1001·9	28	SW	2	s	993·7	o	28	+3	NNW	3	–	b	5	2	37	23				
	Haparanda ...	999·8	−18	N	4	b	995·0	−2	−9	+10	N	4	–	o	*	Trace	−9	−20				
	Hernösand ...	996·3	9	–	o	o	997·1	+2	7	+14	N	4	–	c	*	1	18	1				
	Stockholm ...	997·0	16	NW	2	o	988·7	−2	18	−3	E	2	–	s	*	3	21	12				
	Wisby	997·7	21	NNW	6	o	987·4	−8	23	−2	SSE	2	–	s	*	3	27	19				
	Karlstad	994·1	19	WSW	4	s	990·7	o	10	−2	NW	4	–	bc	*	6	23	9				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1006·5	28	S	1	c	1001·3	−3	39	+9	W	6	–	o	4	1	39	27				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...												*									
	La Hève	1006·4	27	ENE	4	b	1007·3	*	23	−4	ENE	2	*	m	1	–	32	23				
	Ushant	1003·3	36	ESE	4	c	1006·0	*	34	−3	SE	3	*	b	6	–	37	28				
	Brest (St. Mathieu)	1003·8	50	E	3	o	1008·3	+1	31	−3	E	3	*	b	3	–	39	30				
	Rochefort (Ile d'Aix)	999·5	32	ENE	4	b	1005·0	+2	27	−3	NE	4	*	b	*	–	37	25				
	Biarritz	997·5	34	ENE	3	o	1002·9	+2	30	−2	E	2	*	o	4	1	39	32				
	Paris	1002·3	28	NE	2	b	1006·0	+2	19		NNE	2	–	b	*	–	34	19				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	999·5	30	–	0	c	995·0	+3	30	o	–	0	*	s	4	6	39	30				
	Perpignan ..	993·9	30	NE	2	b	999·0	+2	28	−6	NW	2	W	b	*	–	37	27				
	Sanguinaire ...	990·0	46	E	2	m	990·6	*	48	+1	N	2	*	m	5	3	52	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	996·8	46	WSW	3	c	1000·2	o	43	+2	SE	4	–	o	?	30	46	41				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1001·7	48	NW	4	bc	1001·7	*	43		W	3	*	bcw	0	36	56	42				
	Rome														*							
	Azores (Horta, 8 a.m.)	1016·3	*	NW	4	o							*									
	Madeira (Funchal)	1009·0	64	NW	4	bc	1008·7	−2	55	−6	NW	4	W	c	4	–	66	54				

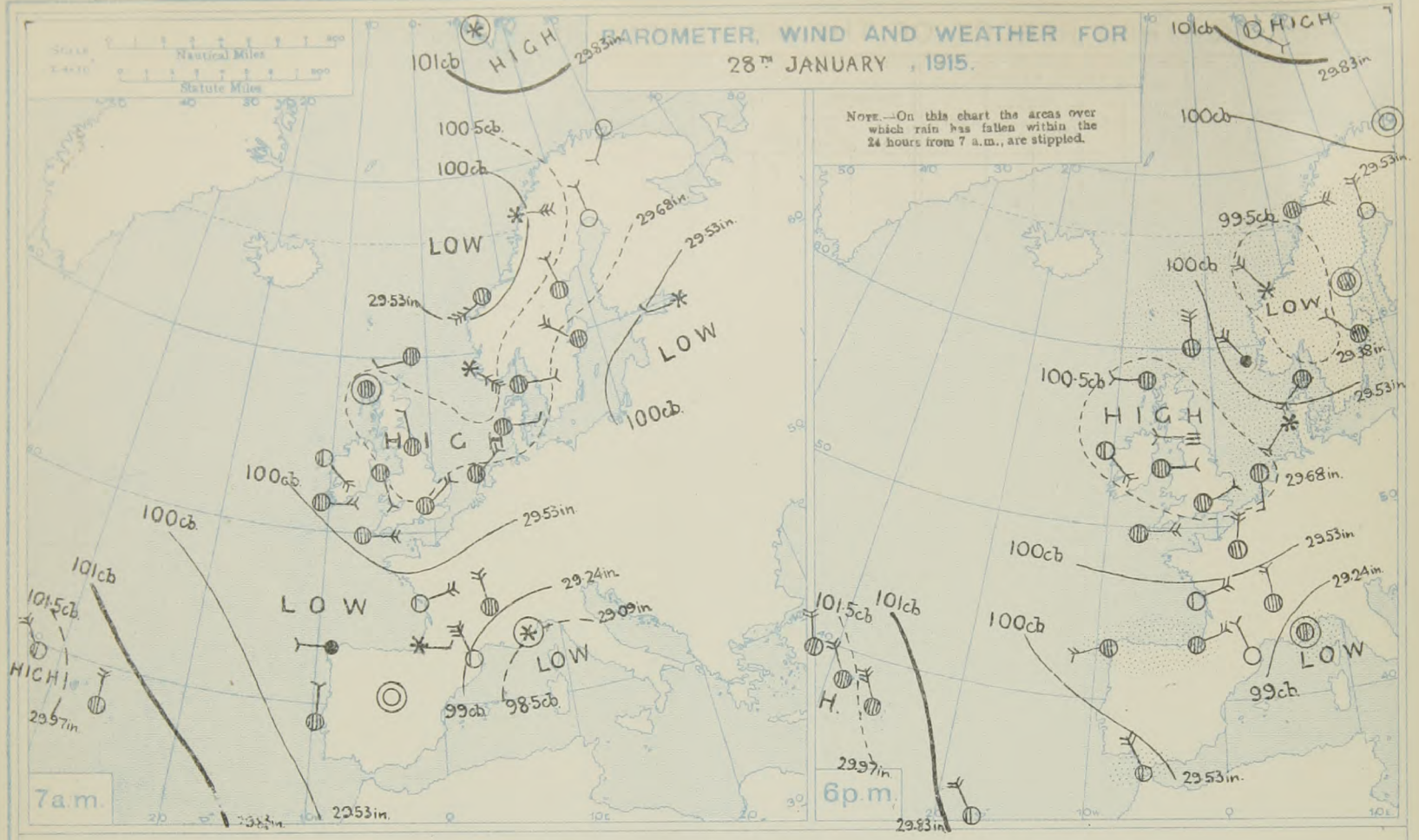
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

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

BAROMETER, WIND AND WEATHER FOR 28TH JANUARY, 1915.



Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.

FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay

0 {a b} 1 — Wind mainly Northerly, light or moderate; mostly cloudy or overcast, some slight local showers of sleet or snow; no great change of temperature.

2 {a b} 3 — North-Westerly to Northerly winds, moderate or light; mostly cloudy or overcast, some slight local showers of sleet or snow; no great change of temperature.

4 {a b} 5 — Light winds between North-West and North-East; cloudy or overcast generally, some mist or fog; temperature low.

6 {a b} — Northerly winds, light; cloudy generally; cold.

7 {a b} — Light variable or Easterly winds; cloudy or overcast, some mist or fog; cold.

8 {a b} — Wind mainly Easterly, light; cloudy or overcast; cold

9 {a b} 10 {a b} — Wind light, mainly between East and South-East; mostly cloudy or dull, fairer intervals; temperature low.

11 — Easterly winds, light; sea moderate or slight; cloudy or overcast generally.

Millib. Inches.
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

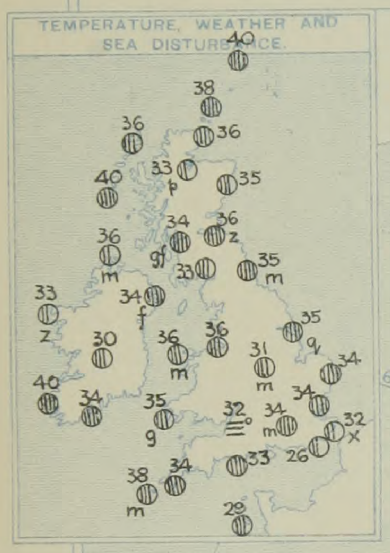
FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 29TH JANUARY, 1915.

GENERAL INFERENCE.

There are still no indications of the approach of any important depression.



HIGH 32
101cb
100·5cb
100cb
99·5cb
2983in.
2968in.
Barometer falling
20°
10°
0°
99cb
LOW
Bar falling
2924in.
2938in.
2953in.
Barometer rising
HIGH
Barometer falling
100·5cb
slightly
100cb
LOW
99·5cb
100cb
LOW
29·53in.
29·68in.
HIGH
100·5cb

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 JANUARY.

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 ~~.

DAILY WEATHER REPORT. Friday, 29th January, 1915.

REPORTS FOR YESTERDAY.

28th January 1915

STATIONS.	EVENING OBSERVATIONS, Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1013·1	-6	NNE	2	b	1008·0	-3	-19	-20	N	2	-	b	*	-	1	-19
Hernösand	1012·3	9	NNE	2	b	1006·3	-4	3	-11	NNW	2	-	o	*	-	14	-4
Stockholm	1004·2	19	NNE	2	o	1002·1	-1	21	-4	NW	4	-	o	*	-	25	14
Wisby	1001·5	25	NE	3	o	1000·7	o	25	-2	N	6	-	o	*	2	28	23
Karlstad	1009·6	14	NNW	2	b	1006·4	-3	12	-7	NNE	2	-	o	*	-	21	7
Petrograd	996·3	19	NE	2	s	999·1	+2	10	-11	W	1	-	s	*	3	21	9
Sanguinaire	984·2	46	E	5	m	981·5	*	44	-2	W	4	-	o	5	8	52	36
Lisbon	989·0	43	W	3	c	986·6	o	41	-4	N	2	E	o	*	3	46	25
Funchal	1016·7	68	NW	5	c	1010·3	-3	61	+4	NW	4	W	r	4	2	68	57

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	–	38	32	c.b.bc.c	c.o	0·5
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	35	30	o.c	c.bc.c.o	0·6
Eng. N.E.	Scarborough	*	40	34	of	of	0·0
Eng. N.E.	Skegness	0·3	38	34	os	os.o	1·8
Eng. N.W.	Morecambe	–	38	34	o.bc	bc	2·0
Eng. N.W.	Blackpool	–	36	33	od	o	0·0
Eng. N.W.	Southport	–	35	32	oz	o	0·0
Midlands.	Buxton	–	33	28	c	c	0·0
Midlands.	Leamington Spa	–	36	32	c	c	0·0
Midlands.	Malvern	–	34	30	c	c	0·0
Midlands.	Ross-on-Wye	–	36	28	o	o	0·0
Wales.	Rhyl	–	43	30	o	o	0·0
Wales.	Colwyn Bay	–	35	30	o	o	0·0
Wales.	Llandudno	–	37	35	o	o	0·0
Wales.	Aberystwyth	–	38	31	o.c.o	c.o	0·0
Wales.	Tenby	–	37	38	bc.c	bc.o	1·2
Wales.	Swansea	–	37	32	c	bc.o	0·5
England. E.	Cromer	–	37	34	o.c	o.c	0·1
England. E.	Lowestoft	–	38	34	c.o.c	c.o.c	0·0
England. E.	Felixstowe	0·3	36	33	ops	ops	0·0
England. E.	Walton-on-Naze	–	36	34	o.cu	o.cc	0·0
England. E.	Southend-on-Sea	–	35	32	ps	o	0·0
England. S.E.	Tunbridge Wells	0·3	33	31	os	o.cm.o	0·0
England. S.E.	Margate	–	36	33	o	o	0·0
England. S.E.	Ramsgate	–	34	32	os	o	0·0
England. S.E.	Folkestone	–	34	32	s.o	o	1·1
England. S.E.	Hastings	–	35	31	o	o	0·0
England. S.E.	Bexhill-on-Sea	–	?	36	o	o	0·0
England. S.E.	Eastbourne	–	35	33	o	o.c.o	0·0
England. S.E.	Seaford	–	35	32	o	c	0·3
England. S.E.	Brighton	–	37	33	o.c	c.o	0·1
England. S.E.	Worthing	–	37	33	o	o	0·0
England. S.E.	Littlehampton	–	39	*	o	o	0·0
England. S.E.	Bognor	–	36	33	o	o	0·0
England. S.E.	Southsea						
England. S.E.	Bournemouth	–	36	32	o	o	0·2
England. S.W.	Weymouth	–	36	33	c.o	c.o	0·0
England. S.W.	Torquay	–	37	36	o	o.c.o	0·1
England. S.W.	Paignton	Trace	38	32	o	o	0·0
England. S.W.	Falmouth	–	38	36	o	o	0·0
England. S.W.	Penzance	–	40	36	o	o	0·0
England. S.W.	Newquay	–	37	32	o	o.c.o	0·1
England. S.W.	Ilfracombe	–	40	32	c.bc.b	b	4·4
England. S.W.	Weston-super-Mare	–	41	32	c.bc	c	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.)	75	71	0·0	36	32	30	–	o	o	o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	72	66	0·0	40	?	31	–	o	o.ou	om
Camden Sq. (Brit. Rainfall)	72	58	0·0	37	33	30	–	o	o.c	*
Hampstead (Reservoir)	*	?	0·2	34	27	23	–	c	o	ox.o
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	60	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
156 Joules	4·9 Milliwatts.	13 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	–	39	36	34	bc	o	o	*
Darwen to 9 p.m.	–	34	29	30	ou	og	o.c.b	0·0
Manchester ,,	–	37	33	*	o	o	o	0·0
Birmingham ,,	–	34	32	30	o	o	o	0·0
Oxford to 9 p.m.	*	36	31	26	c.o	o	o	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	37	33	31	o	o	c.ogm	*

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

29th. & 30th. Jan., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·42 / 7·41	12.6 / 12.6	4.30 / 4.32
Greenwich	7·46 / 7·44	12.13 / 12.13	4.41 / 4.43
Wick	8.28 / 8.26	12.25 / 12.25	4.22 / 4.25
Valencia	8.28 / 8.27	12.54 / 12.54	5.20 / 5.22

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 35° in many parts of England, and below 40° in nearly all parts of the Kingdom. Very little bright sunshine was recorded generally, but at Ilfracombe the value was 4·4 hours.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 30.

Sunday, 30th January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·6	37	N	3	o	1009·1	-2	36	-4	WNW	1	–	o	1	–	39	34	o	o	o	*
	Deerness ...	1010·8	37	NNW	3	o	1009·8	‖	36	-2	WSW	1	–	o	2	–	41	36	o	o	o	o·o
	Stornoway ...	1012·0	37	SE	2	bc	1009·1	-2	37	+1	–	o	–	odp	o	0·14	39	36	bc	bc	bc odp	2·7
	Castlebay (Barra Isd.)	1010·8	40	ENE	2	o	1009·3	-1	41	+1	SSW	5	S	c	5	6	43	38	o	o	oh.op.c	o·o
	Glasgow ...	1012·6	34	E	1	b	1012·8	-1	33	-1	–	o	–	oz	*	–	41	30	of.c.bc	bc	bc.cg.o	3·3
	Eskdalemuir ...	1012·5	31	N	2	bc	1014·1	-1	26	-7	–	o	–	bc	*	–	39	25	c	c.bc	bc.c.bc	e·5
	Malin Head ...	1011·7	40	SW	2	cm	1010·6	-2	35	-1	SSW	4	S	cm	3	–	42	33	bcm	cm	bm	o·o
	Blacksod Point	1012·2	33	SSE	2	bcy													by	by		*
	Valencia ...	1010·5	41	ESE	2	o	1012·5	o	41	+1	E	1	–	o	3	–	42	38	oz	oz	om	o·o
	Roche's Point	1011·8	35	E	2	bc	1014·1	*	34	o	N	1	–	o	2	o·1	42	31	o.c	b.bc	b.o	*
	Birr Castle ...	1011·7	34	SE	1	m	1013·5	*	27	-3	SE	1	–	c	*	–	40	24	b	bf	cx	6·8
	Donaghadee ...	1011·3	39	E	1	bcm	1012·1	o	34	o	SW	2	–	bcm	1	–	42	33	c.oz	bcm	bcf	*
	Liverpool (Bidston)	1011·1	36	NNW	1	bc	1012·8	o	36	o	–	o	–	c	1	–	39	35	om	cm.b	bx	0·9
	Holyhead ...	1010·8	40	ENE	3	bm	1013·2	-1	33	-3	S	3	–	cx	2	–	42	30	c.bc	o.cm	bcx	o·o
	Pembroke (St. Ann's)	1012·3	36	N	1	c	1014·2	+1	33	-2	NE	1	–	bcmx	1	–	39	32	cg	bc	c	2·2
	Scilly (St. Mary's)	1009·9	39	E	2	om	1012·9	+1	40	+2	ESE	2	SW	om	2	–	41	37	om	om	om	o·o
	Falmouth ...	1010·5	36	NE	2	o	1014·1	+1	34	o	NE	2	–	o	3	–	39	30	oz	oz	o.b.o	o·o
	Jersey (St. Aubin)	1009·4	35	E	1	om	1014·5	*	28	-1	E	2	–	bm	1	–	35	27	c.om	om	o.bmw	o·3
	Portland Bill ...	1009·3	35	N	2	by	1014·3	+2	35	+2	–	o	–	bx	2	–	37	32	o	o	b	*
	Dungeness ...	1007·6	34	N	2	om	1013·0	+2	30	+4	N	2	N	cmx	2	–	38	24	bc	bc.om	bcx.cm	*
	Dover	1008·5	35	NW	3	b	1013·6	+3	33	+1	NW	3	NW	bx	2	–	39	31	bc c.b	b	bx	4·3
	Wick	1011·5	36	NW	3	o	1009·9	-3	34	-2	SW	1	–	o	3	–	40	33	om	om	om	*
	Nairn	1012·1	35	W	1	cg	1010·1	*	31	-2	–	o	–	og	1	–	37	27	og	oz	ogmx	o·o
	Aberdeen ...	1011·2	36	NW	3	o	1011·2	-1	34	-1	WSW	3	W	c	3	–	39	34	c.o	o	o.c	o·o
	Leith	1012·2	39	NW	1	c	1012·2	o	34	-2	W	1	–	oz	*	–	41	33	c	c.bc	o	*
	Tynemouth ...	1010·0	39	NNW	3	c	1012·4	o	36	+1	NW	3	–	om	3	1	43	35	c	c	omp	*
	Spurn Head ...	1008·0	39	NNE	4	c	1012·5	+1	39	+4	N	5	–	oq	5	0·2	41	33	bcq	cq	cps	2·3
	Yarmouth ...	1007·4	33	NW	2	bcm	1012·4	+4	34	o	W	2	W	c	1	0·4	39	32	os bcm	bcmx	bc.c	1·2
	Clacton-on-Sea	?	35	WNW	2	c	?	+2	34	o	NW	2	N	c	1	–	38	33	o.bc.c	c	c.bcx.c	1·6
	Nottingham ...	1009·7	38	NE	2	c	1013·6	*	34	+3	SW	2	SW	o	*	–	40	30	c.om	om.c	c.o	o·o
	Bath	1009·9	37	NW	1	o	1015·0	*	30	-2	NE	1	–	m	*	–	40	25	om.b	b.om.	om	2·3
	London (Kew Obsy.)	1009·1	39	N	1	om	1014·3	+2	34	o	WSW	1	–	omx	*	–	38	32	om.c.bc.b	b, bcm.om	om.bc.bm.mx	3·5
ICELAND, FAEROE, &c.	Spitsbergen ...						1013·5	?	-15	+7	S	1	*	b	*	*	-13	-22				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	983·3	23	–	o	o	991·7	+6	14	-13	SW	6	–	b	4	*	28	10				
	Bodö	993·9	18	E	2	bc	993·6	o	14	-2	E	2	–	bc	2	–	18	12				
	Christiansund	1001·1	30	NNW	4	o	999·9	o	30	o	NNW	5	–	c	4	4	30	28				
	Skudesnaes ..	1004·2	30	N	2	b	1005·3	o	32	o	NNW	3	–	s	1	?	36	28				
	Færder (X'tania Fjord)	?	21	N	6	b	?	o	21	-6	–	o	–	bc	o	–	27	19				
	The Scaw (Skagen)	997·9	23	N	7	bc	1001·7	o	28	-2	N	3	–	b	3	–	36	19				
	Blaavands Huk	999·4	28	NE	3	b	1005·2	o	32	+4	NNW	2	–	b	3	–	37	23				
	Haparanda ...	997·1	-8	WNW	2	o	999·8	+1	o	+9	SSE	2	–	o	*	–	o	-11				
	Hernösand ...	999·5	5	NE	2	b	999·1	o	-11	-18	–	o	–	b	*	–	14	-11				
	Stockholm ...	990·3	16	N	8	s	996·6	+4	19	+1	N	4	–	s	*	6	21	16				
	Wisby	986·0	27	SW	2	o	991·9	+6	27	+4	ENE	4	–	s	*	4	28	19				
	Karlstad	998·9	9	N	4	b	1002·3	+3	4	-6	N	2	–	b	*	1	? 9	-6				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1003·7	37	NNW	5	r	1010·0	+3	36	-3	N	1	–	b	2	5	41	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1007·9	37	NW	5	o	1012·2	+1	37		N	4	*	o	4	–	39	36				
	La Hève	1010·4	30	NW	2	b	1015·5	*	36	+13	SW	2	*	m	2	–	36	23				
	Ushant	1009·9	36	SE	3	c	1014·0	*	*39	+5	SE	3	*	o	3	–	41	34				
	Brest (St. Mathieu)	1010·7	36	E	1	c	1014·6	+2	37	+6	E	3	*	o	2	–	37	31				
	Rochefort (Ile d'Aix)	1007·9	32	ENE	3	b	1013·3	+2	27	o	E	3	*	b	*	–	39	27				
	Biarritz	1006·3	33	NE	2	c	1009·7	+2	23	-7	E	2	*	b	2	–	37	23				
	Paris	1008·4	27	–	o	b	1013·2	+3	25	+6	NW	2	–	b	*	–	32	19				
	Belfort	1008·3	20	ENE	4	m	1012·2	*	23		–	o	*	s	e	–	26	19				
	Lyons	1006·1	27	NNW	4	o	1013·5	*	27	+5	NW	2	*	o	*	–	27	21				
	Nice	996·0	32	–	o	b	1001·7	+4	32	+2	E	1	*	b	3	s	41	27				
	Perpignan ..	1002·9	30	NW	3	b	1008·0	+2	32	+4	NW	2	–	b	*	–	36	27				
	Sanguinaire ...	995·7	?47	N	1	o	997·5	*	39	-6	E	3	*	f	5	7	50	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1000·4	48	ENE	5	b	1006·3	+2	34	-9	S	1	–	b	3	–	?48	34				
	Madrid (8 a.m.)	1001·2	41	W	1	bc.	1008·2	+1	27		N	1	–	b	*	–	43	25				
	Lisbon (9 a.m.)																					
	Gibraltar	999·6	49	SE	4	mr	998·6	*	51	+8	E	4	*	mr	1	52	55	43				
	Rome														*							
	Azores (Horta, 8 a.m.)	1016·7	*	NW	5	bc							*									
	Madeira (Funchal)	1004·0	55	NW	4	r	1001·2	-2	55	o	NW	4	W	clth	4	7	61	46				

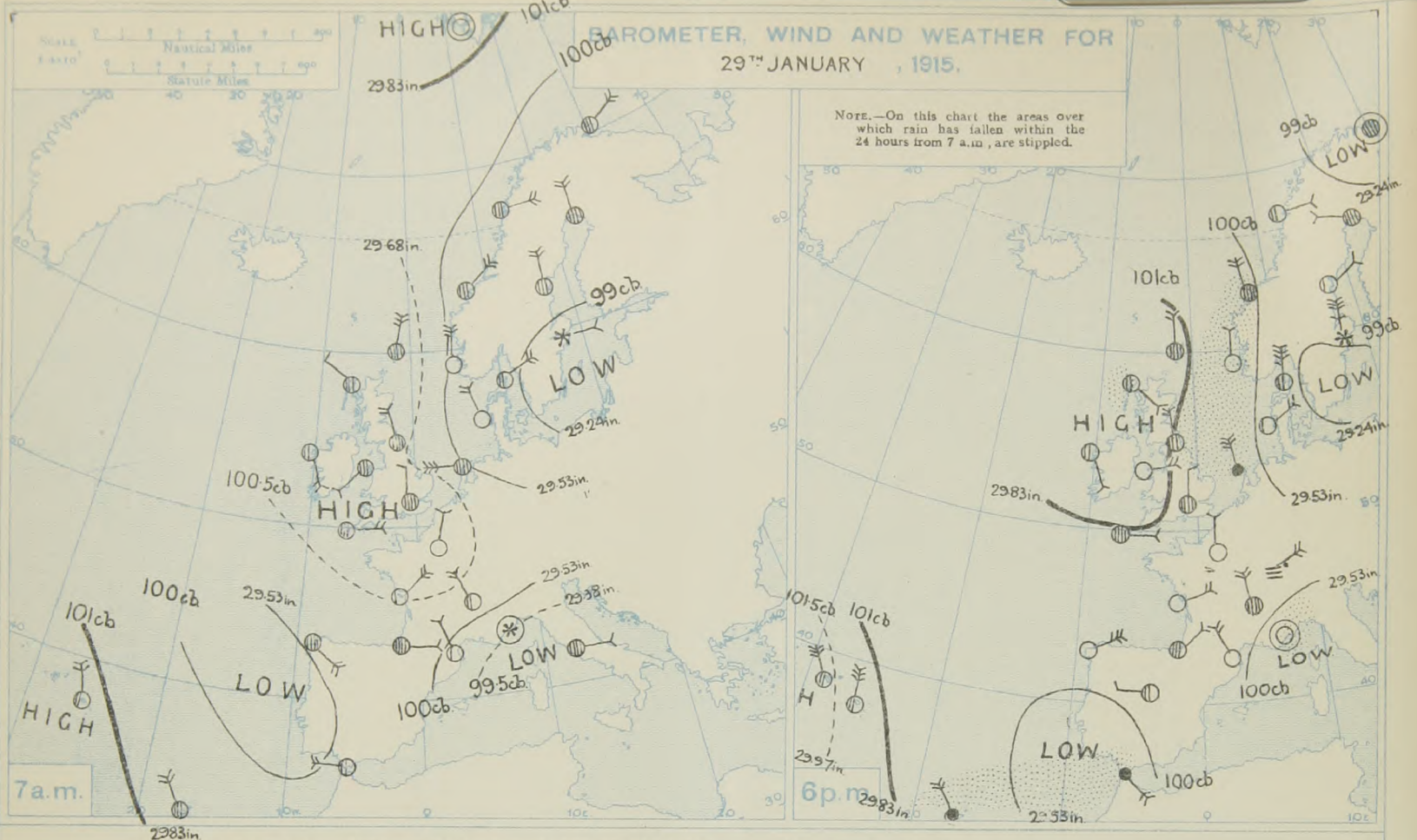
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

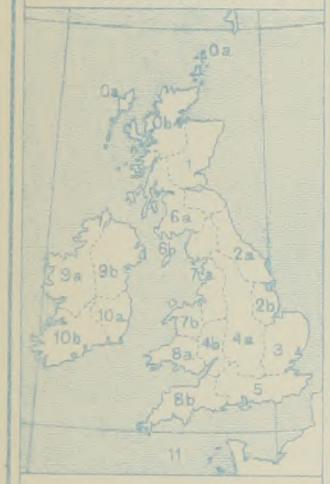
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 29TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

0	a, b	South-Westerly and Southerly winds, light to moderate or fresh; mostly cloudy or overcast, some rain, sleet or snow; temperature rising.
1		
2	a, b	North-Westerly to South-Westerly winds, light; dull, some mist, then fairer; cold to rather milder.
3		Wind light variable to North-Westerly or Westerly, light; mostly overcast, local mist, then fairer; cold, becoming rather milder later.
4	a, b	
5		
6	a, b	Same as Nos. 0 and 1.
7	a, b	North-Easterly to North-Westerly winds, light; much cloud generally, some mist locally; cold.
8	a, b	
9	a, b	Same as Nos. 0 and 1.
10	a, b	Wind Westerly to Southerly, light; overcast or very cloudy, then some rain; cold; becoming rather milder.
Western Channel and Bay	11	North-Easterly to North-Westerly or Westerly winds, light; dull, some mist, then fairer.

Millibars / inches: 1050 31 · 1040 · 1030 · 1020 30 · 1010 · 1000 · 990 · 980 29 · 970

FURTHER OUTLOOK.

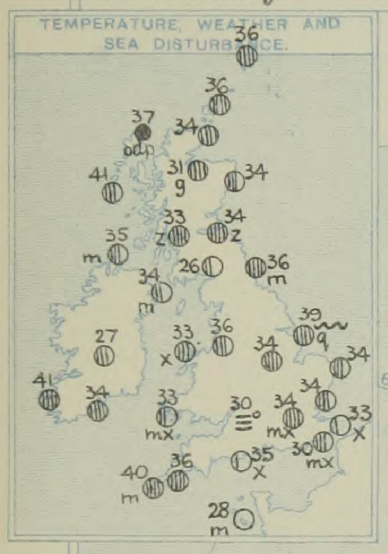
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 30TH JANUARY, 1915.

GENERAL INFERENCE.

A depression is extending over our North-Western and Northern districts, but no information is available to indicate its size or intensity.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH 101cb 100·5cb 100cb 99·5cb 29·83in. 29·68in. 29·53in. LOW 29·38in. 100cb. 100·5cb Bar. falling. Barometer HIGH rising slowly LOW 29·38in. 29·53in. 29·68in. 100·5cb 100cb LOW 101cb 100cb LOW

Inches. 31 30 29

SCALE 1 : 9,240,000
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 JANUARY.

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 ~~~.

DAILY WEATHER REPORT. Saturday, 30th January 1915.

REPORTS FOR YESTERDAY.

29th January 1915

STATIONS.	EVENING OBSERVATIONS. Baron. Millibars at M.S.L.	Temp. F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Faerder	992·3	32	WSW	6	0	992·2	+1	27	+6	NNW	2	–	b	2	–	32	21
Rome	993·3	43	SE	1	r	992·8	0	41	·	E	2	–	o	2	11	52	41

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	41	29	c.o	bc.c	2·0
Scotland.	Banff	2	41	34	o	o	0·0
Scotland.	St. Andrews	–	40	33	*	*	0·4
Eng., N.E.	Harrogate	1	40	29	ps.o.c.o	c.bc.c.o	1·1
Eng., N.E.	Scarborough	*	43	38	o.c	o.c	1·7
Eng., N.E.	Skegness	0·3	41	31	os.c	ch.o	1·1
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	–	40	31	od.o	c.bc	3·7
Eng., N.W.	Southport	–	40	30	o.c.bc	bc.b	2·3
Midlands.	Buxton	–	36	28	cs	bc	0·4
Midlands.	Leamington Spa	–	39	30	c	bcf	1·8
Midlands.	Malvern	–	39	32	bc	c.bc.b	4·0
Midlands.	Ross-on-Wye						
Wales.	Rhyl	–	40	31			0·3
Wales.	Colwyn Bay	–	40	33	c.o	o.bc	0·0
Wales.	Llandudno	–	40	36	o	o	0·0
Wales.	Aberystwyth	–	40	32	o.c.b	bc.o	5·2
Wales.	Tenby	–	40	33	bc	bc	4·9
Wales.	Swansea	–	39	32	c.b	b	4·9
England, E.	Cromer	0·3	40	33	o.cs bc	bc.b	0·9
England, E.	Lowestoft	0·3	37	32	ops.c	c.bcps	1·1
England, E.	Felixstowe	–	38	30	bcm	bcm	1·9
England, E.	Walton-on-Naze	–	36	31	bc.o.c	o.c	1·8
England, E.	Southend-on-Sea	–	40	32	c.bc.b	b.bc	2·5
England, S.E.	Tunbridge Wells	–	37	28	m.bc	bcm.o	1·1
England, S.E.	Margate	–	38	29	bc	c	2·8
England, S.E.	Ramsgate	–	37	26	bc	bc	2·8
England, S.E.	Folkestone	–	39	27	bc.b	bf	4·9
England, S.E.	Hastings	–	38	28	c.bc	bc	2·4
England, S.E.	Bexhill-on-Sea	?	?	28	bc	bc	3·6
England, S.E.	Eastbourne	–	40	28	bc	bcm.	3·6
England, S.E.	Seaford	–	38	27	c	c	1·0
England, S.E.	Brighton	–	38	30	c.bc	bc.c	2·0
England, S.E.	Worthing	–	40	31	bc	bc.c	1·8
England, S.E.	Littlehampton	–	39	*	bc.c	bc.b	2·5
England, S.E.	Bognor	–	38	32	bc	bc.b	2·7
England, S.E.	Southsea						
England, S.E.	Bournemouth	–	36	30	o	o	0·0
England, S.W.	Weymouth	–	35	32	b	c.bcm	0·0
England, S.W.	Torquay	–	37	34	o	c.bc.b	0·2
England, S.W.	Paignton	–	37	33	om	om	0·0
England, S.W.	Falmouth	–	39	34	oz	oz	0·0
England, S.W.	Penzance	–	40	34	o	o	0·0
England, S.W.	Newquay	–	36	30	oz.oz	oz.bz	0·1
England, S.W.	Ilfracombe	–	40	31	bc.b	b.bc	2·2
England, S.W.	Weston-super-Mare	–	40	32	c.bc	b.bc	2·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.)	64	88	1·6	38	32	26	–	c.bc	bc.c	c.o.om
City (Bunhill Row)	*	*	0·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	91	1·5	40	?	31	–	bc	bc	om
Camden Sq. (Brit. Rainfall)	67	85	3·0	40	33	27	–	o.bc	bc	*
Hampstead (Reservoir)	*	81	3·2	38	28	21	–	o.bc	bc	bc.o.m
Richmond Park	*	*	3·4							
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

S. Kensington (Roof of M.O.)	66	82	2·8

* Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
312 Joules	9·7 Milliwatts.	22 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm §	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	–	40	33	30	o.c	c.b	bc	*
Darwen to 9 p.m.	0·3	37	27	25	bc.om	ons.b	bc	1·4
Manchester ,,	Trace	37	31	*	om	os.m	om	0·0
Birmingham ,,					*			
Oxford to 9 p.m.	*	39	31	23	c.og	og.c.b	bz	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	39	34	31	o	om.bc	bc.o	*

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

30th & 31st January 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.40 / 7.41	12.6 / 12.7	4.32 / 4.34
Greenwich	7.44 / 7.43	12.13 / 12.14	4.43 / 4.45
Wick	8.26 / 8.24	12.28 / 12.26	4.32 / 4.28
Valencia	8.27 / 8.26	12.54 / 12.55	5.22 / 5.24

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many parts of the Kingdom, and again fell a little below 32° at night. Bright sunshine was more prevalent than of late generally, but there was little in the south-west of England.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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 M.O. and at the bookstalls at certain Railway Termini in London.

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

§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 31

Sunday
31st January, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1003·9	37	SW	1	bc	997·1	-2	37	+1	S	1	S	bc	1	0·2	40	34	bcm	bc	bc	*
	Deerness ...	1003·4	37	SE	1	0	996·2	*	38	+2	SE	2	SE	c	2	-	40	35	0·c	c.o	o·c	0·7
	Stornoway ...	1000·6	41	SSW	3	ofp	992·6	-1	40	+3	S	5	S	bcq	4	4	41	36	cdfp	ofp	o. bcfpq	0·0
	Castlebay (Barra Isd.)	999·9	43	S	5	ofp	988·9	-5	39	-2	-	0	-	ofp	2	10	44	37	o. bc. ofp	ofp	ofp	0·8
	Glasgow ...	1006·4	35	SW	3	0	995·8	-4	35	+2	SSW	2	NW	c	*	1	38	31	orf	o.c.ohp	ofp.o	0·0
	Eskdalemuir ...	1008·0	33	SW	2	0	997·2	+2	32	+6	SSW	2	-	o	*	2	34	?	bc.os	ofs	oo.o	0·0
	Malin Head ...	1003·3	37	S	4	cmq	993·0	-7	42	+7	WSW	6	W	cmr	5	6	42	36	cm	cmq	cmrlt	0·2
	Blacksod Point	1004·3	41	SSW	5	cfp	1000·4	0	43	+10	WNW	6	NW	cfp	5	5	44	32	cm	cfp	bcfp. bc	*
	Valencia ...	1008·1	44	SW	2	0	1007·4	0	44	+3	W	6	-	bcwq	6	3	45	39	cf	cmr	bcqp	0·2
	Roche's Point	1010·6	43	WNW	1	r	1006·8	*	38	+4	WNW	8	NW	bc	2	2	44	34	0. c	c.cfp	ofp.b.bc	*
	Birr Castle ...	1007·8	39	S	1	0	1003·3	*	33	+6	SW	1	-	c	*	2	39	26	c. o	o	ofp. cx	0·7
	Donaghadee ...	1008·7	37	SW	4	ogm	996·6	-3	35	+1	SW	4	-	ogm	3	0·3	38	32	ogm	ogm	ogmfp	*
	Liverpool (Bidston)	1010·7	38	SW	1	0	999·0	-2	39	+3	W	4	W	cq	3	2	40	34	bm. c	om	or. c	2·7
	Holyhead ...	1009·6	39	SW	4	ofdm	1000·3	-1	39	+6	W	6	W	cq	5	5	42	33	c. om	ofdm	ofp. o. cm	0·0
	Pembroke (St. Ann's)	1011·4	42	SW	2	0	1002·8	0	41	+8	NW	5	NW	cq	4	4	44	33	bcmsc	cm	ogm	0·4
	Scilly (St. Mary's)	1012·8	44	SW	4	om	1006·9	-1	44	+4	NW	5	NW	bcqp	5	1	46	40	om	om	om. cqfp	0·0
	Falmouth ...	1013·0	40	S	3	c										5	43	34	of	of. o	o. bcfph	0·0
	Jersey (St. Aubin)	1015·5	38	SE	2	b	1007·9	*	41	+13	SW	5	-	o	3	-	43	28	bm. b	b	b. om	8·0
	Portland Bill ...	1013·7	42	SW	3	bc	1003·7	-2	40	+5	W	5	SW	cfp	5	4	42	35	bcm	bc. o	bc. cfp	*
	Dungeness ...	1014·4	37	NW	2	0	1003·3	-8	40	+10	SSW	7	-	r	5	1	41	30	cm	om. o	o. c. or	*
	Dover	1014·7	36	W	1	c	1003·3	-8	36	+3	SW	6	-	r	5	6	40	32	bcsc	c	c. ofs	0·3
	Wick	1003·6	38	SSW	2	0	995·0	-3	36	+2	-	0	-	o	3	0·2	39	34	om. cm	c.ompd	omw	*
	Nairn	1003·8	36	W	1	owm	994·2	*	33	+2	-	0	-	bcwq	1	1	38	30	fqpo	ow	ofqmx	0·0
	Aberdeen ...	1005·0	35	SW	2	0	994·9	-3	34	0	SW	1	-	o	2	2	36	33	c. ofs*m	o.c.o	ofqp	0·0
	Leith	1006·4	38	WSW	2	0	995·7	-3	36	+2	WSW	2	SW	cfp	*	0·3	42	33	ofq. c	c.o.*	o	*
	Tynemouth ...	1008·5	38	SW	4	om	996·9	-5	35	-1	WSW	2	-	om	3	1	40	33	cm	cm	om	*
	Spurn Head ...	1011·0	39	W	3	bc	997·6	-4	36	-3	SSW	4	E	ocqp	5	2	42	35	ofqm	om. bc	mr	0·0
	Yarmouth ...	1012·7	37	SW	1	om	1000·3	-10	36	+1	SW	2	SW	or	1	1	41	33	c	cm	omr	1·0
	Clacton-on-Sea		38	NW	1	0		-10	38	+4	SW	5	SW	cpsr	4	1	39	34	c. o	om	om. cfqs	0·0
	Nottingham ...	1011·6	33	SW	1	b	999·0	*	37	+3	W	3	W	o	*	1	40	32	o. cm	om. b	bc. o	0·0
	Bath	1013·7	38	SW	2	0	1004·2	*	36	+6	W	1	W	o	*	3	41	29	om	om	omr	0·3
	London (Kew Obsy.)	1014·5	38	SW	1	om	1002·3	-5	38	+4	WSW	3	-	o	*	1	40	34	omw. ofqm	om	om. or. o	0·5
ICELAND, FAEROE, &c.	Spitsbergen ...	1006·9	-19	-	0	b	1006·0	*	-19		-	0	*	b	*	*	-13	-22				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	997·5	12	SSW	3	0	991·4	-17	16	+2	SW	5	-	o	3	*	16	9				
	Bodö	992·8	21	E	4	s	990·7	0	21	+7	-	0	-	c	1	*	21	14				
	Christiansund	999·8	32	W	3	c	996·4	-2	32	-2	W	4	-	o	4	3	34	30				
	Skudesnaes ..	990·9	28	-	0	b	999·1	-2	34	+2	E	2	-	o	2	?	?	26				
	Færder (X'tania Fjord)	1000·7	27	NW	1	b	1000·0	0	21	0	NNE	2	-	fb	1	-	28	21				
	The Scaw (Skagen)	1001·6	28	WNW	1	bc	999·3	-2	27	-1	WNW	1	-	b	1	-	36	23				
	Blaavands Huk	1005·9	36	NW	1	c	1001·2	-3	36	+4	SSW	1	-	o	1	Trace	37	30				
	Haparanda ...	999·1	-6	SE	2	0	996·0	-1	0	0	NNE	1	-	o	*	0·5	9	-32				
	Hernösand ...	997·1	0	N	2	b	999·5	0	-11	0	N	2	-	b	*	-	9	-19				
	Stockholm ...	999·4	12	W	2	b	999·1	+1	10	-9	W	2	-	c	*	0·4	21	10				
	Wisby	998·6	24	NE	2	bc	1000·2	0	23	-4	S	2	-	c	*	-	28	19				
	Karlstad	1001·3	0	-	0	b	1001·1	0	-2	-6	-	0	-	b	*	-	12	-9				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1011·1	37	W	3	c	1002·6	-7	36	0	SSW	5	-	r	3	2	41	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1013·7	40	WNW	3	q	1003·9	-6	40	+3	SW	7	*	r	6	Trace	41	34				
	La Hève	1013·0	34	SE	7	bc	1009·0	*	34	-2	SW	4	*	o	4	-	36	30				
	Ushant							*					*									
	Brest (St. Mathieu)	1016·2	41	SE	3	0	1010·9	-2	42	+5	WNW	4	*	o	3	-	46	37				
	Rochefort (Ile d'Aix)	1015·5	36	ENE	3	b	1013·2	-2	30	+3	SE	3	*	bc	*	-	41	?				
	Biarritz	1012·4	34	ENE	2	b	1012·2	0	27	+4	-	0	*	b	2	-	37	25				
	Paris	1015·8	36	NNE	1	0	1011·8	-4	28	+3	S	2	-	o	*	-	41	23				
	Belfort	1018·4	25	W	3	m	1018·6	*	16	-7	-	0	*	fb	*	?	32	?				
	Lyons	1016·6	12	N	1	b	1017·2	*	19	-8	WSW	1	*	b	*	-	38	15				
	Nice	1007·4	36	-	0	b	1014·6	+2	33	+1	E	1	*	b	?	-	46	35				
	Perpignan ..	1011·3	37	N	1	b	1014·3	+3	21	-11	W	1	-	b	*	-	45	41				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·8	48	NE	5	b	1016·4	+4	37	+3	SE	1	-	o	4	-	48	34				
	Madrid (8 a.m.)	1007·5	39	N	3	bc	1018·1	+5	25	-2	-	0	-	b	*	-	41	21				
	Lisbon (9 a.m.)	1002·0	46	NNW	4	0	1011·7	+5	43		NNW	4	-	b	?	-	50	41				
	Gibraltar							*					*									
	Rome	1003·9	37	N	3	b	1011·1	+3	34	-3	N	2	-	b	*	-	48	34				
	Azores (Horta, 8 a.m.)		*				1023·4	0	54		SSW	4	*	o	2	-	55	46				
	Madeira (Funchal)	1007·4	57	N	4	r	1014·7	?	67	+2	?	?	NW	o	?	24	69	46				

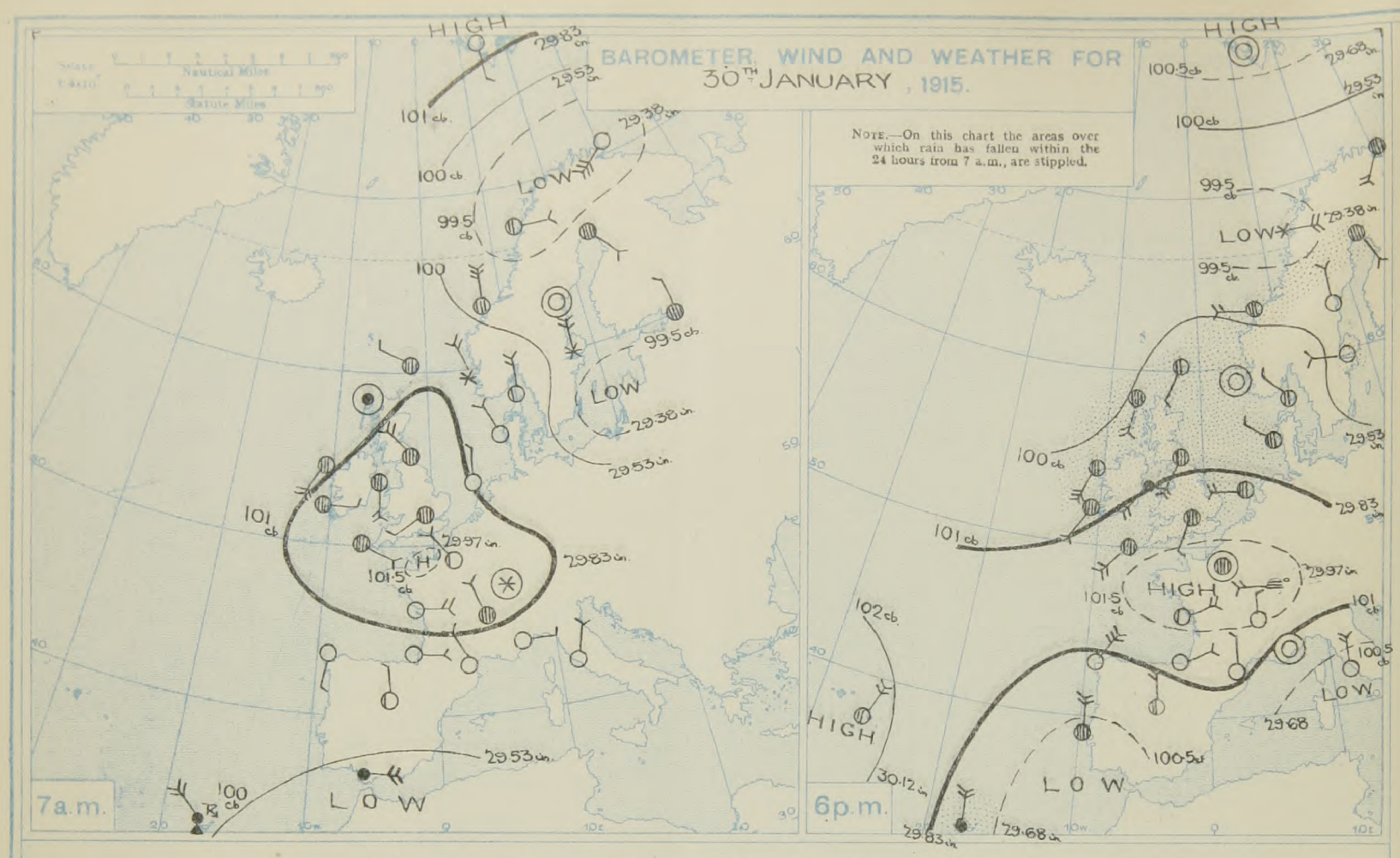
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
19	0·75	44	1·73
20	0·79	45	1·77
21	0·83	46	1·81
22	0·87	47	1·85
23	0·91	48	1·89
24	0·95	49	1·93
25	0·98	50	1·97

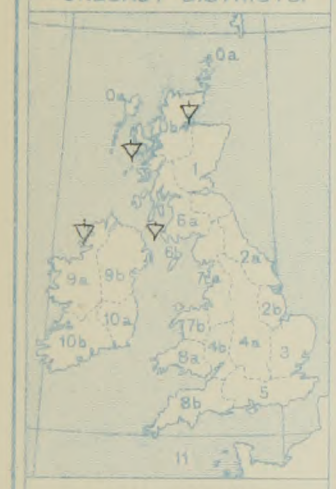
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 30TH JANUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted yesterday at 7.10 pm in Districts 0, 6 & 9.

Western Channel and Bay

0 {a, b} 1 — Southerly to South-Westerly or Westerly winds, light to moderate or fresh; changeable, some rain, sleet or snow; rather cold.

2 {a, b} — South-Westerly to Westerly or North-Westerly winds, light to fresh; some showers, then fairer; rather cold.

3 — Same as No. 5.

4 {a, b} — Same as No. 2.

5 — Wind veering to West or North-West, high or strong to fresh; showery, squally, then fairer; less cold than of late.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b}, 8 {a, b}, 9 {a, b}, 10 {a, b} — Wind between West and North-West, strong or fresh to moderate; changeable, some showers, sleet or snow locally; moderately cold.

11 — North-Westerly winds, fresh to moderate; sea rather rough; showery to fair.

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 31ST JANUARY, 1915.

GENERAL INFERENCE.

The secondary depression over England will move eastward, and in its rear the wind will veer to the Westward or North-Westward in the east and south-east.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

HIGH

LOW

99 LOW

99.5 cb

100 cb

100.5 cb

101 cb

101.5 cb

102 cb

102.5 cb

29.38 in.

29.53 in.

29.68 in.

29.83 in.

29.97 in.

30.12 in.

30.27 in.

Barometer falling

Barometer rising

Barometer changing little

Inches

31

30

29

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 JANUARY.

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 ~~.

DAILY WEATHER REPORT. Sunday, 31st January 1915.

REPORTS FOR YESTERDAY.

30th January 1915.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening: Temp. °F.	Evening: Wind Direc.	Evening: Wind Force 0–12.	Evening: Weather.	7 a.m. G.M.T.: Barometer Millibars at M.S.L.	7 a.m.: Barometer Change in 3 hours.	7 a.m.: Temp. Dry Bulb °F.	7 a.m.: Temp. Change in 24 hours °F.	7 a.m.: Wind Direc.	7 a.m.: Wind Force 0–12.	7 a.m.: Direc. of Upper Cloud.	7 a.m.: Weather.	7 a.m.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Blacksod Point	-	-	-	-	-	?1009.8	−4	33	0	SSW	4	SW	cm	3	-	39	32
Petrograd	999.7	16	NW	1	0	997.2	+3	30		N	1	-	0	+	-	30	16
Rome	994.9	43	SW	1	0	997.7	+2	37	−4	N	2	-	b	*	15	50	36

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	-	38	33	og	o	0.0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	40	32	o.c	c.o	0.4
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	0.3	43	34	o	o.bc	0.5
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	-	39	30	c.o	o	0.1
Midlands.	Buxton	-	38	28	bc	c	0.8
Midlands.	Leamington Spa	-	38	31	ct	bct	0.4
Midlands.	Malvern	-	40	31	bc	c	0.2
Midlands.	Ross-on-Wye	-	40	25	x.om	om.cy	0.2
Wales.	Rhyl						
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	-	42	29	o.c.b	bc.o	?0.6
Wales.	Tenby	-	40	27	bc.o	bc.o	0.1
Wales.	Swansea						
England. E.	Cromer	1	40	34	c.bc	bc.o.c	0.9
England. E.	Lowestoft						
England. E.	Felixstowe	0.3	40	31	cm	cm	0.0
England. E.	Walton-on-Naze	-	39	32	o.c	o.c	0.1
England. E.	Southend-on-Sea	-	39	32	bc	c.bc	0.0
England, S.E.	Tunbridge Wells	-	38	27	om	c.o	0.0
England, S.E.	Margate	-	44	36	c	cm	0.0
England, S.E.	Ramsgate	-	38	33	o	o	0.0
England, S.E.	Folkestone	-	41	33	g.o	of	0.0
England, S.E.	Hastings	-	41	33	bc.o	o	0.5
England, S.E.	Bexhill-on-Sea	-	44	36	c	c	0.5
England, S.E.	Eastbourne	-	42	32	o.c	o.cm	0.0
England, S.E.	Seaford	-	41	29	o	o	0.0
England, S.E.	Brighton	-	42	32	bcx.co	com	0.3
England, S.E.	Worthing	-	43	31	c	c	0.2
England, S.E.	Littlehampton	-	42	*	o	c.bc.c	0.1
England, S.E.	Bognor	-	42	31	o	o.bc	0.2
England, S.E.	Southsea						
England, S.E.	Bournemouth	-	41	26	o	o	0.2
England, S.W.	Weymouth	-	42	21	g.bm	bcm	2.2
England, S.W.	Torquay						
England, S.W.	Paignton	-	37	26	om	om	0.0
England, S.W.	Falmouth	-	41	30	og	og.o	0.0
England, S.W.	Penzance	-	43	31	o	o	0.0
England, S.W.	Newquay	-	39	27	ogg	ogg	0.0
England, S.W.	Ilfracombe	-	39	27	ogg	ogg	0.0
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	69	87	0.0	39	35	30	1	of.o	o	ors.o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	92	0.0	40	?	33	1	m	m	r.bc.u
Camden Sq. (Brit. Rainfall)	77	91	0.0	40	36	33	1	o	o	*
Hampstead (Reservoir)	*	91	0.0	37	31	24	1	c.o	c.or	c
Richmond Park	*	*								
Kew. (See front page.)										

(Greenwich and Camden Square air temperatures are in Glaisher screens.)

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
154 Joules	4.7 Milliwatts.	10 Milliwatts.

S. Kensington (Roof of M.O.) 67 86 0.0

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	F.				Hr.
Dublin to 4 p.m.	-	42	34	33	o c	o.c.b	bc	*
Darwen to 9 p.m.								
Manchester ,,	-	40	31	*	ox	o.c	c.o	0.0
Birmingham ,,					*			
Oxford to 9 p.m.	*	39	31	22	bfx.of	of.om	em.o	*
Teignmouth to 9pm.	-	38	30	27	bc	bc.c	o	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	40	35	27	c.om	om	em	*

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

31st Jan. & 1st Feb. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.40 / 7.38	12.7 / 12.7	4.34 / 4.36
Greenwich	7.43 / 7.41	12.14 / 12.14	4.45 / 4.47
Wick	8.24 / 8.21	12.26 / 12.26	4.28 / 4.31
Valencia	8.26 / 8.25	12.55 / 12.55	5.24 / 5.25

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in various parts of the Kingdom, and slight frost occurred at night in many districts. As a rule there was very little bright sunshine, but Jersey recorded the high figure of 8 hours.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

JANUARY, 1915.

Corrections and additions for the month of January are given on this sheet for stations in the British Isles, Scandinavia, Holland, France and "Southern Europe." The data for stations in Iceland, and Germany will be published separately in due course. Completed maps will eventually be published in the Weekly Weather Report of the Meteorological Office.

Reports which arrived within 24 hours of the date to which they referred were inserted on Page 4 of the Daily Weather Report of the following day.

ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
1	Haparanda	1009.3	8	–	0	o	1013.1	–	8	−11	–	0	–	m	*	–	19	4	.	.	.	.
	Hernösand	1011.5	14	–	0	b	1013.2	–	16	−11	–	0	–	b	*	–	27	9	.	.	.	.
	Stockholm	1015.7	28	SW	2	o	1016.4	–	28	0	S	2	–	b	*	–	30	27	.	.	.	.
	Wisby	1015.7	37	W	4	o	1018.3	–	32	−4	S	2	–	b	*	–	37	30	.	.	.	.
	Karlstad	1015.3	34	W	2	o	1013.0	–	30	+9	SE	4	–	bc	*	–	34	19	.	.	.	.
	Ushant.	1000.2	52	SW	5	c	977.6	*	46	−4	SW	9	–	r	8	–	54	43	.	.	.	.
	Lyons	1009.9	35	WSW	5	o	1004.7	*	36	−7	WSW	3	–	o	*	–	43	32	.	.	.	.
	Madrid	1013.6	39	WNW	4	bc	1012.6	−2	37	0	SSW	3	–	or	*	7	41	34	.	.	.	.
	Rome	1019.4	46	SE	4	o	1010.1	−7	54	+18	SE	4	–	r	*	–	55	36	.	.	.	.
2	Ushant	975.9	56	W	8	o	982.6	*	48	+2	NW	6	–	c	7	4	52	43	.	.	.	.
3	Belfort	997.9	39	–	0	o	992.3	*	34	−11	ENE	3	–	bc	*	–	47	32	.	.	.	.
	Coruinna	997.0	52	WSW	5	o	992.7	+5	49	−7	SW	6	–	o	6	10	54	43	.	.	.	.
	Madrid	1006.7	46	W	3	o	995.4	−3	48	+5	W	5	–	o	*	16	48	43	.	.	.	.
	Rome	1002.7	54	W	1	bc	1005.1	o	48	0	SW	1	–	o	*	15	59	48	.	.	.	.
4	Petrograd	1024.6	21	E	1	o	1027.0	–	19	−2	SE	2	–	s	*	–	25	18	.	.	.	.
	Horta	.	.	.	.	.	1023.4	+1	61	+11	SW	5	–	fc	4	6	61	50	.	.	.	.
5	Bodö	1014.3	32	E	4	c	1015.7	–	28	−6	E	2	–	b	2	–	–	–	.	.	.	.
	Christiansund	1005.9	36	E	1	b	1008.0	–	36	−3	SE	3	–	b	4	–	–	–	.	.	.	.
	Petrograd	1029.5	16	ESE	1	s	1030.4	–	9	−10	SE	2	–	s	*	–	21	9	.	.	.	.
	Belfort	998.6	34	W	6	c	1004.8	*	37	+3	WSW	6	–	o	*	4	37	34	.	.	.	.
6	Haparanda	1026.7	14	SE	4	o	1026.3	–	7	−12	SE	2	–	o	*	–	19	5	.	.	.	.
	Hernösand	1021.1	25	SE	2	c	1019.4	–	21	−6	SE	1	–	o	*	–	28	21	.	.	.	.
	Stockholm	1012.7	27	E	6	o	1011.3	–	25	−5	ENE	6	–	o	*	–	30	25	.	.	.	.
	Wisby	1008.3	24	E	2	s	1006.7	–	23	−4	E	2	–	o	*	6	27	?	.	.	.	.
	Karlstad	1011.4	27	E	4	o	1011.3	–	23	−4	NE	2	–	s	*	6	27	21	.	.	.	.
	Lyons	1017.0	41	SSW	1	o	1024.4	*	44	+4	SW	1	–	o	*	2	47	40	.	.	.	.
7	Belfort	1022.3	42	WSW	4	o	1014.0	*	46	+5	SW	7	–	r	*	7	46	40	.	.	.	.
	Lyons	1025.7	45	SW	2	o	1021.7	*	45	+1	S	1	–	o	*	–	48	44	.	.	.	.
	Nice	1020.3	41	–	0	b	1017.3	–	41	−1	E	1	–	c	2	–	54	39	.	.	.	.
	Perpignan	1026.6	54	W	1	b	1023.8	–	45	−10	W	2	–	o	*	–	61	43	.	.	.	.
	Lisbon	1030.1	54	N	3	bc	1034.6	o	50	−2	–	0	–	bc	4	–	57	50	.	.	.	.
	Horta	.	.	.	.	.	1020.4	+3	55	−6	ESE	2	–	r	3	21	61	54	.	.	.	.
	Funchal	1026.0	63	E	4	bc	1016.4	o	61	o	S	3	–	bc	3	–	68	59	.	.	.	.
8	Petrograd	1015.9	o	ESE	2	o	1009.4	–	5	+11	ESE	2	–	s	*	–	5	−7	.	.	.	.
	Ushant	1005.9	50	SSW	6	c	1007.7	*	50	0	W	5	–	c	7	9	52	45	.	.	.	.
	Belfort	1011.0	50	WSW	7	o	1015.3	*	39	−7	WSW	6	–	c	*	2	50	39	.	.	.	.
9	Petrograd	1000.2	12	E	2	o	988.0	–	18	+13	E	3	–	s	*	.	.	.	.	.	.	.
	Ushant	1003.7	50	W	6	b	1003.3	*	50	0	W	6	–	c	8	9	50	46	.	.	.	.
	Belfort	1011.0	43	WSW	7	o	1005.2	*	37	−2	WSW	6	–	r	*	1	51	35	.	.	.	.
	Lyons	1016.3	43	S	1	bc	1006.7	*	39	−2	–	0	–	o	*	–	50	37	.	.	.	.
	Coruinna	1019.1	50	SSW	4	o	1017.6	–	50	+4	WNW	5	–	o	6	11	52	46	.	.	.	.
	Madrid	1022.3	45	WSW	3	o	1018.9	–	39	−4	NW	2	–	bc	*	7	48	37	.	.	.	.
10	Haparanda	1000.3	−11	N	2	b	999.3	–	3	0	NE	2	–	o	*	–	3	−18	.	.	.	.
	Hernösand	994.4	18	–	0	c	997.0	–	−2	−12	–	0	–	b	*	2	19	−2				
	Stockholm	995.7	25	W	2	o	997.3	–	16	−7	W	2	–	o	*	1	28	16				
	Wisby	996.0	34	WSW	4	o	997.6	–	27	−1	NW	2	–	o	*	.5	39	27				
	Karlstad	998.3	12	–	0	f	997.9	–	10	−8	–	0	–	o	*	–	12	9				
	Petrograd	992.5	30	SE	8	s	999.4	–	14	−4	W	3	–	s	*	2	32	14				
	Horta	1031.5	57	S	4	o	.	.	.	.	.	.	.	.	.	.	.	.				
11	Haparanda	994.4	27	NE	2	o	997.5	–	3	0	NE	2	–	o	*	2	29	3				
	Hernösand	997.9	12	NE	2	c	996.3	–	14	+16	–	0	–	s	*	1	19	−2				
	Stockholm	997.6	21	NNW	2	o	992.7	–	28	+12	E	2	–	s	*	4	28	16				
	Wisby	997.9	27	N	2	c	994.0	–	36	+9	S	2	–	o	*	2	36	25				
	Karlstad	997.0	18	E	2	o	995.9	–	16	+6	ENE	2	–	o	*	3	21	10				
	Belfort	1016.6	35	WSW	6	o	1004.8	*	37	+5	WSW	7	–	o	*	3	40	32				
12	Haparanda	999.0	−9	NE	2	b	998.7	–	0	−3	N	2	–	o	*	–	5	−11				
	Hernösand	999.1	9	–	0	b	1003.9	–	3	−11	NW	2	–	b	*	–	14	−4				
	Stockholm	997.9	14	E	2	o	1000.6	–	21	−7	–	0	–	o	*	–	28	10				
	Wisby	997.0	25	NE	2	o	997.3	–	34	−2	ESE	4	–	s	*	2	38	23				
	Karlstad	997.3	−6	NE	2	o	1001.6	–	16	0	NNE	2	–	o	*	–	?	−6				
	Petrograd	989.5	21	NNE	d	s	998.4	–	23	+7	W	2	–	o	*	5	23	16				
13	Petrograd	1010.6	23	SW	1	c	1013.1	–	14	−9	ENE	1	–	o	*	–	23	14				
	Ushant	.	.	.	.	.	1023.7	*	52	+2	NW	4	–	fc	5	4	52	46				
	Belfort	1007.1	37	WSW	4	o	1028.3	*	32	−2	SE	1	–	o	*	2	40	32				
	Horta	1010.4	57	S	4	r	1010.9	−1	57	−4	S	4	–	o	6	19	63	55				
15	Haparanda	1013.2	10	SW	2	s	1007.3	–	14	+16	NNE	2	–	o	*	–	14	−2				
	Hernösand	1013.2	9	–	0	s	1001.2	–	27	+27	SW	3	–	s	*	2	27	0				
	Stockholm	1011.9	28	SE	2	o	995.9	–	32	+13	SE	4	–	s	*	1	32	19				
	Wisby	1011.9	28	NE	2	o	997.2	–	34	+9	SSE	2	–	s	*	2	36	25				
	Karlstad	1006.6	28	E	2	o	987.9	–	32	+22	ESE	4	–	s	*	13	32	10				
	Petrograd	1017.0	19	–	0	o	1014.4	–	18	+4	–	0	–	s	*	–	19	14				
	Belfort	1026.9	41	W	2	o	1024.6	*	39	−2	W	3	–	c	*	2	45	38				
	Madrid	1026.1	54	–	0	b	1030.7	+1	37	−2	NE	1	–	o	*	–	54	37				
16	Petrograd	1002.4	18	SE	3	r	998.7	–	27	+9	SE	3	–	o	*	4	36	12				
	Ushant	1009.9	50	W	6	c	1009.9	*	52	0	WNW	5	–	o	6	–	54	46				
	Belfort	1018.3	43	WSW	7	r	1003.5	*	46	+7	WSW	7	*	o	*	9	47	39				
	Rome	1020.6	45	NE	1	b	1017.0	–	45	+9	N	1	–	o	*	–	52	36				
17	Horta	1019.8	60	S	5	o	.	.	.	.	.	.	.	.	.	.	.	.				
18	Horta	1020.8	61	ESE	5	bc	1022.0	o	63	+1	ESE	4	–	bc	5	–	64	61				
19	Petrograd	1003.5	18	NW	1	o	1012.3	–	12	−11	WNW	1	–	s	*	2	23	12				
	Biarritz	1031.8	44	N	4	bc	1034.3	–	37	o	ENE	2	–	o	1	1	46	37				
	Belfort	1027.3	27	W	2	b	1033.9	*	17	−11	–	0	–	fc	*	1	31	14				
20	Rochefort	1035.7	45	NNW	4	c	1033.6	–	43	+6	NNW	2	–	o	*	–	45	37				
	Horta	.	.	.	.	.	1034.9	+1	61	o	SE	5	–	b	5	–	63	59				
21	Biarritz	1028.7	46	NNE	2	r	1014.4	–	48	+7	SW	5	–	o	4	7	48	41				
	Belfort	1027.9	23	–	0	m	1011.7	*	18	+3	–	0	–	o	*	–	31	14				
	Nice	1019.3	35	–	0	b	1008.7	–	33	+1	NE	1	*	c	3	–	45	33				
22	Petrograd	1013.9	30	SW	1	o	1015.1	–	14	−14	S	1	–	b	*	–	36	12				
	Lyons	993.2	35	S	3	r	991.1	*	32	−4	WNW	1	–	b	*	10	37	30				
23	Haparanda	1003.8	27	SSW	4	o	1005.6	+10	30	−2	SW	2	–	o	*	3	32	27				
	Petrograd	1014.3	14	SSE	2	b	1015.0	–	12	−2	SSE	1	–	b	*	–	28	10				
	Brest.	997.6	45	NW	7	o	988.9	–	41	−4	SE	3	–	r	3	6	46	41				
	Belfort	992.0	30	ENE	3	m	991.4	*	28	−4	WSW	2	–	m	*	–	36	25				

GALES.

Duration and Extreme Force in British Islands.

Roches Point (1st.)
31st 9pm – 1st 6am. SSW 9.

Holyhead. (11th)
10th Midt. WNW 8, gust 26mps.

Stornoway (16th.)
15th Midt – 3am N 8.

Blacksod Point (16th)
16th 7am WNW 8.

Holyhead
21st 11pm. N.10, gust 32mps.

Correction

Blacksod Point
15th 4am – 7am W. 8.

REPORTS FOR JANUARY, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. 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.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
23	Corunna.	1010·6	52	NNE	5	r	1005·2	−8	52	0	SW	6	–	o	6	3	52	48	.	.	.	.
24	Petrograd	1014·7	25	SE	1	o	1012·0	–	16	+4	S	1	–	S	*	–	25	10	.	.	.	.
25	Belfort	998·0	32	–	0	f	998·9	*	30	0	E	2	–	b	*	–	35	30	.	.	.	.
	Rome	993·0	46	E	1	o	990·0	–	43	−2	SE	1	–	o	*	–	50	43	.	.	.	.
26	Haparanda.	1002·4	19	N	2	o	1007·9	–	19	+18	N	4	–	o	*	–	25	1	.	.	.	.
	Hernösand	1003·3	23	–	0	bc	1008·0	–	25	+11	N	4	–	o	*	–	25	12	.	.	.	.
	Stockholm	1002·4	28	WNW	2	b	1001·3	–	28	0	N	4	–	o	*	–	30	18	.	.	.	.
	Visby	1001·7	32	N	4	c	1012·2	–	32	0	N	6	–	o	*	–	34	28	.	.	.	.
	Karlstad	1005·7	25	–	0	o	1008·7	–	25	−3	ENE	2	–	o	*	–	28	19	.	.	.	.
	Rome	995·7	43	NNE	1	bc	995·3	+1	46	+3	SW	1	–	r	*	34	48	41	.	.	.	.
27	Belfort	1001·6	29	–	0	m	998·9	*	26	−1	ENE	3	*	m	*	1	34	25	.	.	.	.
	Horta.	.	.	.	.	.	1022·3	−4	57	+2	W	4	–	bc	3	–	59	54	.	.	.	.
28	Paris	997·7	32	NE	3	c	999·8	–	25	−7	NNE	3	–	b	–	–	36	25	.	.	.	.
	Belfort	994·7	27	ENE	7	o	994·9	*	23	−7	ENE	7	–	m	*	–	31	23	.	.	.	.
	Rome	987·8	46	S	1	r	986·6	o	46	+5	SW	1	–	bc	*	16	–	–	.	.	.	.
	Horta	.	.	.	.	.	1014·6	+1	.	.	N	.	.	.	#	6	61	54	.	.	.	.
29	Petrograd	992·2	21	E	1	s	955·5	–	14	+4	SSW	1	–	3	*	4	21	10	.	.	.	.
	C. Gris Nez	1004·4	28	E	4	o	1006·3	–	27	−3	ESE	3	–	b	2	–	41	27	.	.	.	.
	Belfort	998·9	23	ENE	4	c	1005·2	*	18	−5	ENE	4	–	o	*	–	28	18	.	.	.	.
	Lyons	996·0	27	N	3	o	1001·7	*	21	−5	NNW	3	–	bc	*	–	28	20	.	.	.	.
	Madrid	996·3	37	W	3	c	1001·5	+2	34	+6	W	1	–	c	*	–	39	28	.	.	.	.
	Lisbon	1000·4	45	SSW	2	b	998·7	−3	39	−2	NNE	2	–	o	?	–	46	37	.	.	.	.
	Horta	.	.	.	.	.	1016·2	+1	48	?	NW	4	–	bc	4	1	59	48	.	.	.	.
30	Spitsbergen	1013·5	−20	S	1	b	1010·1	o	−15	+7	S	1	–	b	*	*	−13	−22	.	.	.	.
	Lisbon	996·0	47	SSW	2	bc	998·1	o	43	+4	NNE	4	–	bc	6	3	48	39	.	.	.	.
	Horta	.	.	.	.	.	1021·6	+2	50	+2	N	3	–	c	3	–	54	48	.	.	.	.
31	Petrograd	999·1	1	–	o	o	1000·6	–	o	−30	–	o	–	o	*	–	30	−4	.	.	.	.

Corrections.

1	Blacksod	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	.
2	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.
	Deerness	.	.	.	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3	Blacksod Point	.	.	.	.	.	.	.	.	.	SSW	.	.	.	.	.	.	.	.	.	.	.
	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	Lerwick	984·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	44	.	.	.	.	.
	Deerness	.	.	SSE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o	.	c. brne.	.
	Tynemouth	.	.	ENE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6	Birr Castle	.	.	.	.	.	1005·0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	43	.	.	.	.	.
	Deerness	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	0·1
	Glasgow	.	.	.	.	.	.	.	.	.	SW	.	.	.	.	.	.	.	.	.	.	.
	Eskdalemuir	.	37	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Holyhead	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	47	.	.	.	.	.
9	Deerness	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36	.	.	.	.
	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·8
10	Deerness	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	cx. c	cx. ps	.	.
	Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	43	.	.	.	.	.
	Roche's Point	.	.	.	.	b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	45	.	.	.	.	.
	Dover	.	.	.	.	.	.	.	.	.	NW	.	.	.	.	.	.	.	.	.	.	.
11	Dover	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	33	b. bcy	c. od.	.	.
	Spurn Head	.	.	.	.	.	986·2	.	.	.	.	.	.	.	.	.	.	33	.	.	.	.
	Clacton-on-Sea	.	41	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12	Roche's Point	.	.	.	.	.	.	.	.	.	.	.	.	o	.	.	.	.	.	.	.	.
	Holyhead	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	45	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·2	.	.	.	.	.	.
13	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	.	.	.	.	.	.
	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	41	.	.	.	.	.
14	Pembroke	.	.	.	.	.	.	.	49	.	.	.	.	.	.	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	ou	.	.	.	.	.	.	.	.
15	Deerness	.	.	.	.	.	.	.	.	.	SW	3	–	op	.	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	oqu	.	.	.	.	.	.	.	.
	Bath	1015·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16	Lerwick	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.	.	.	.	.
	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36	.	.	.	.
17	Roche's Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·1	.	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·2	.	.	.	.	.	.
	Jersey	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50	.	.	.	.	.
	Aberdeen	1003·9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	41	.	.	.	.	.
18	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	b. bc. b	.	.	.
	Roche's Point	.	.	.	.	.	1028·4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4·2
	Leith	.	.	.	.	.	.	.	.	.	.	.	.	o	.	.	.	.	.	.	.	.
21	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	47	.	.	.	.	.
	Valencia	.	.	.	.	.	.	.	46	−3	.	.	.	.	.	.	.	.	.	.	.	.
	Pembroke	.	.	WSW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	London (Kew Obsy)	1015·8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22	Roche's Point	.	.	NW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Birr Castle	.	.	.	.	.	999·8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Holyhead	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.
23	Blacksod Point	.	.	.	.	ond	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Holyhead	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	38	.	.	.	.
	Dungeness	.	.	.	.	.	993·7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·4	.	.	.	.	.	.
	Donaghadee	.	.	.	.	.	1013·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Scilly	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	38	.	.	.	.
	Dover	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	29	.	.	.	.
	Tynemouth.	1004·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·2	.	.	.	.	.	.

—CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
25	Spurn Head								39	−1						0.4						
26	Lerwick																				c.o.b.z	
	Glasgow															0.4						
	Birr Castle																		c.bz	bz.bc	bcx	
	Aberdeen															0.1						
27	Lerwick																					
	Dearness		39																			0.7
28	Spurn Head										SE	1										
29	Glasgow																					1.0
	Spurn Head																		o.b			
30	Roche's Point																					
	Spurn Head	10090																				