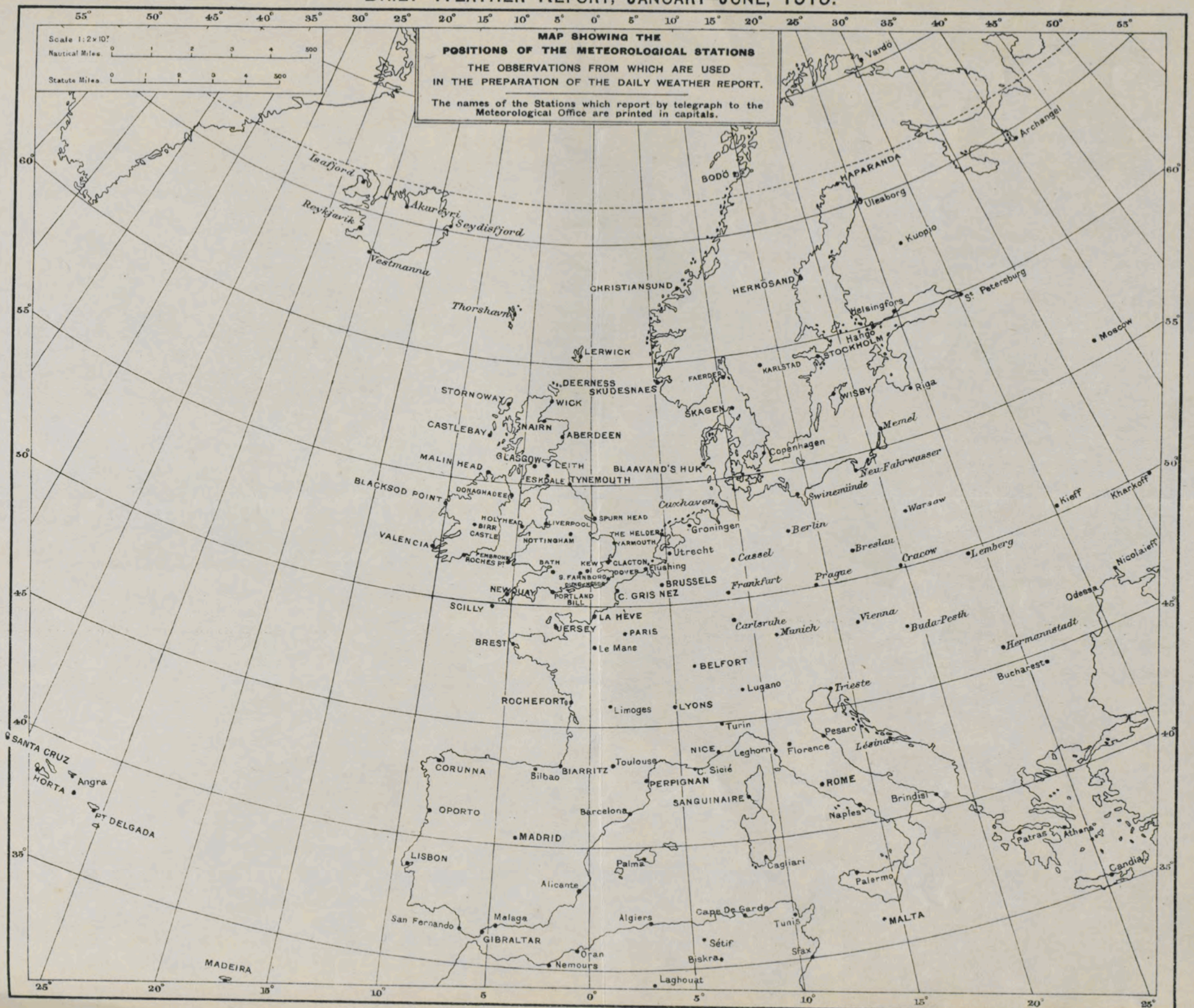
METEOROLOGICAL OFFICE.

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. 32

Monday, 1st February 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.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	998.6	37	-	0	bm	998.5	0	40	+3	SSW	3	S	bc	2.	2	43	36	bcm	bc	bc.bcp	*
	Deerness ...	999.0	37	SW	1	b	1000.7		38	0	SSW	3	–	b	3	–	41	35	c.bc	bc.b	b	1.7
	Stornoway ...	999.6	37	W	3	bc	999.7	-2	41	+1	WSW	3	–	c	3	3	44	35	bc.b	b.bc	bc.o.ddp	5.0
	Castlebay (Barra Isd.)	1001.3	43	W	3	c	1001.4	0	47	+8	SW	4	–	r	4	1	47	38	dp.bc	bc	c.or	4.5
	Glasgow ...	1001.2	35	WSW	1	b	1007.1	+1	38	+3	SW	1	–	o	*	3	38	32	or.dp.d	od.c.by	byx.o	0.0
	Eskdalemuir ...	1000.1	32	N	3	b	1003.4	+1	31	-1	S	2	–	c	*	3	34	20	os , .o	os	bc	0.0
	Malin Head ...	1002.6	42	NW	4	c	1004.5	0	40	-2	SSE	6	S	cmq	5	4	43	41	bcq.p	bcm	cpmq	1.0
	Blacksod Point	1007.7	42	WNW	4	bc	1005.0	-4	46	+3	SW	3	W	omd	3	1	?	39	dp	bc	bc.odm	*
	Valencia ...	1010.8	46	W	2	bc	1007.1	-4	48	+4	S	3	–	o	4	1	48	43	bcp	bc	cm	5.1
	Roche's Point	1010.8	42	W	3	c	1011.3	*	46	+8	SW	3	–	o	3	2	46	38	bcpq	dp.bcq	c.dp	*
	Birr Castle ...	1007.3	43	W	1	bc	1008.6	*	40	+7	SSE	1	–	o	*	–	44	33	c	bc	o	5.3
	Donaghadee ...	1001.1	41	N	5	cq.p	1007.4	+1	35	0	SW	3	–	cm	3	2	42	34	cq.p	cq.p	bc.gcm	*
	Liverpool (Bidston)	998.0	41	W	5	r	1011.0	+2	37	-2	WSW	2	–	bc	3	3	43	37	cpqr	opqr	o.cr	1.9
	Holyhead ...	1000.6	44	WNW	8	cq.p	1010.4	0	42	+3	SW	4	–	b	3	Trace	45	38	c.bc.b	c.bcp.o	op.c.bc	6.4
	Pembroke (St. Ann's)	1007.3	44	NW	4	c	1013.1	+1	45	+4	SW	2	W	cq	2	–	45	40	cqr	cqr	cqr	
	Scilly (St. Mary's)	1010.7	45	WNW	6	bcq.p	1014.2	-1	49	+3	WSW	3	NW	c	4	1	48	42	bcq.p	bcq.p	bcq.c	8.7
	Falmouth ...	1009.6	43	WNW	3	b	1015.0	+1	41	+2	W	1	–	bc	2	1	47	38	b	b	bcp	6.0
	Jersey (St. Aubin)	1009.1	43	W	4	b	1016.5	*	41	0	W	3	W	bc	3	2	48	39	dq.p.bc	b.dp.b	bc	5.2
	Portland Bill ...	1006.1	44	WNW	5	c	1015.1	+3	43	+3	NW	3	–	b	3	–	45	40	c.bc	bc	c.bc.b	*
	Dungeness ...	1002.3	39	NW	5	cq	1012.5	+6	39	-1	NW	3	NW	o	3	12	42	36	or.bc	bc	bc.oq	*
	Dover	1003.9	37	WSW	3	c	1013.5	+8	37	+1	NW	3	NW	c	2	3	43	34	or.c.b	bc.b.c	cp.r.o	3.8
	Wick	999.2	32	W	1	bc	1001.7	-1	37	+1	WSW	3	–	o	3	–	41	30	om	om.bcm	bc.ogm	*
	Nairn	999.9	34	W	1	o	1002.9	*	36	+3	–	o	–	bc	1	0.2	37	29	bcm	cm	c.bcr	0.6
	Aberdeen ...	999.4	36	WNW	3	c	1005.3	0	31	-3	–	o	–	bq	2	–	37	31	o.c	c	c.b.bq	0.0
	Leith	998.1	38	NW	1	bc	1006.4	+2	38	+2	W	2	–	bc	*	–	41	33	c	b.bcq	bcqr	*
	Tynemouth ...	997.3	37	WNW	1	om.p	1008.6	+4	35	0	W	2	–	bm	2	1	41	32	bc	bc	bm	*
	Spurn Head ...	998.4	39	SW	4	r	1010.6	+4	36	0	WNW	3	–	bcmr	4	3	40	32	bcqr	omr	omr	1.3
	Yarmouth ...	1000.1	38	W	2	c	1011.8	+6	34	-1	W	2	–	f	1	1	41	33	o	or.c	of	0.0
	Clacton-on-Sea	1000.8	40	W	3	c	1011.5	+3	38	0	WNW	3	–	cq	1	1	42	36	c.bc	bc.c	c.or.cq	2.5
	Nottingham ...	999.7	37	W	4	r	1011.6	*	33	-4	W	2	–	b	*	2	42	31	c.om	omp	r.o	0.5
	Bath	1005.1	42	W	2	bc	1014.4	*	33	-3	W	1	–	b	*	1	46	33	prs.bc	bcprs	c.bc.bm	5.3
	London (Kew Obsy.)	1003.7	40	W	2	b	1013.4	+5	40	+2	NW	2	–	o	*	Trace	43	37	o.cm.o	o.cr.bc.b	bc.c.bc	2.1
ICELAND, FAEROE, &c.	Spitsbergen ...	1000.3	-2	–	0	b	994.3	*	9	+28	–	0	*	s	*	*	9	-8				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	997.2	7	SW	6	o	1002.6	+5	5	-11	SW	8	–	bc	5	*	16	5				
	Bodö	992.0	23	–	0	bc	996.7	+3	28	+7	SSW	4	–	c	2	?	28	18				
	Christiansund	995.5	32	–	0	o	996.0	0	37	+5	W	5	–	o	4	11	37	32				
	Skudesnaes ..	1000.6	27	–	0	b	1005.5	+1	36	+2	SE	4	–	o	2	–	36	27				
	Færder (X'tiania Fjord)	1000.7	27	SW	2	o	1005.2	+4	27	+6	NNE	1	–	b	–	–	27	21				
	The Scaw (Skagen)	1001.3	28	SE	1	c	1007.3	+3	30	+3	SW	1	–	o	1	–	34	23				
	Blaavands Huk	991.8	34	SSE	1	f	1003.2	+5	28	-8	SE	1	–	b	2	3	36	28				
	Haparanda ...	999.3	9	S	2	o	1007.7	+3	5	+5	S	4	–	o	*	1	12	-2				
	Hernösand ...	?999.4	12	SSW	2	b	1005.9	+4	-4	+7	–	0	–	b	*	–	12	-9				
	Stockholm ...	1001.3	10	W	2	b	1006.9	+3	18	+8	WSW	2	–	o	*	–	18	9				
	Wisby	1002.9	25	NW	2	bc	1003.6	+3	23	0	NE	2	–	o	*	–	28	18				
	Karlstad	1001.7	3	–	0	f	1006.4	+4	21	+23	NNE	2	–	f	*	1	21	-6				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	997.0	37	WNW	4	r	1010.3	+5	36	0	N	1	–	b	1	9	41	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1003.0	42	W	6	c	1011.9	+6	41	+1	NW	5	*	o	4	4	43	39				
	La Hève	1006.3	36	W	5	bc	1013.7	*	36	+2	NW	4	*	c	4	2	39	34				
	Ushant	1014.7	48	NW	5	c	1015.9	*	50		W	3	*	c	5	–	50	45				
	Brest (St. Mathieu)	1013.6	46	WNW	5	c	1017.6	+2	47	+5	NW	3	*	o	3	–	48	41				
	Rochefort (Ile d'Aix)	1014.7	43	WSW	2	bc	1019.5	+2	43	+13	WNW	2	*	c	*	5	45	30				
	Biarritz	1018.0	47	W	3	o	1021.9	+2	45	+18	SW	3	*	o	2	–	45	27				
	Paris	1008.7	36	SW	2	o	1014.6	+4	38	+8	SW	2	–	o	*	1	37	27				
	Belfort							*					*		*							
	Lyons	1015.0	33	NW	1	o	1019.4	*	32	+13	ENE	1	*	s	*	–	37	19				
	Nice	1015.1	37	W	1	b	1014.0	+4	32	-1	–	0	*	b	2	–	46	32				
	Perpignan ..	1016.8	34	NNE	1	b	1020.3	+2	43	+22	NW	3	–	b	*	–	45	21				
	Sanguinaire ...	1014.6	46	N	2	c	1011.9	*	45		NW	5	*	o	2	–	45	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020.0	50	NNE	4	o	1025.3	+3	39	+2	S	1	–	o	4	?	50	37				
	Madrid (8 a.m.)	1017.2	41	–	0	b	1028.2	+4	28	+3	–	0	–	b	*	–	43	23				
	Lisbon (9 a.m.)	1017.6	48	NW	3	b	1024.3	+2	45	+2	NW	1	–	b	*	–	50	43				
	Gibraltar	1030.5	49	SE	4	c	1022.7	*	45		NW	3	*	bw	1	60	53	41				
	Rome														*							
	Azores (Horta, 8 a.m.)	1023.3	*	S	5	r	1013.0	+3	60	+6	SSW	5	*	o	5	6	60	54				
	Madeira (Funchal)	1020.8	61	N	3	bc	1026.1	+1	54	-3	N	3	N	bc	3	–	64	52				

GALES.

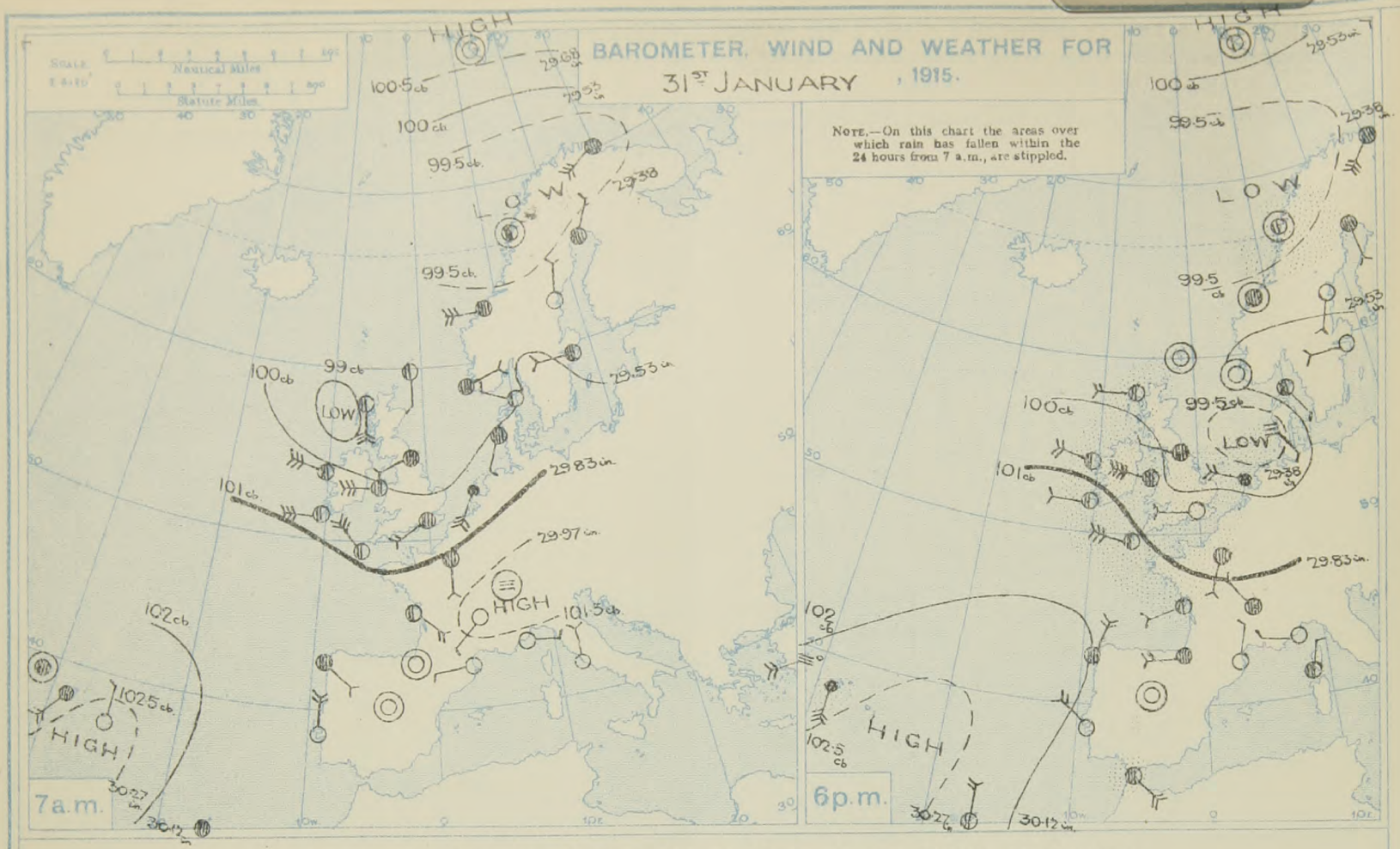
Duration and Extreme Force in British Islands.

Holyhead

31st Jan. 6pm WNW. 8.
" " Midt WNW 9. gust 26mps

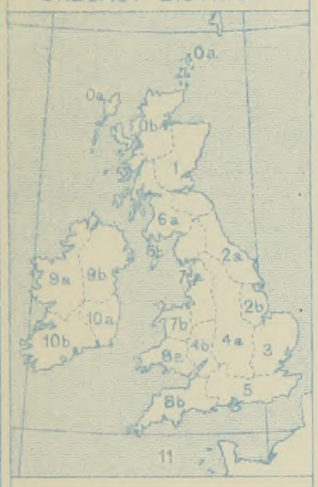
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 31ST 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	Freshening Southerly and South-Westerly winds; fine at first, some rain later; becoming milder.
1		
2	a, b	
3		Light North-Westerly winds, backing later to the South-Westward and freshening; fine to-day, some rain to-morrow; becoming milder.
4	a, b	
5		
6	a, b	Freshening Southerly and South-Westerly winds; fine at first, some rain later; becoming milder.
7	a, b	
8	a, b	
9	a, b	Southerly to South-Westerly winds, increasing in strength; mild, unsettled, some rain, misty on coast.
10	a, b	
Western Channel and Bay	11	Freshening South-Westerly winds, with a moderate to rather rough sea; fair at first, squally and showery later.

FURTHER OUTLOOK.

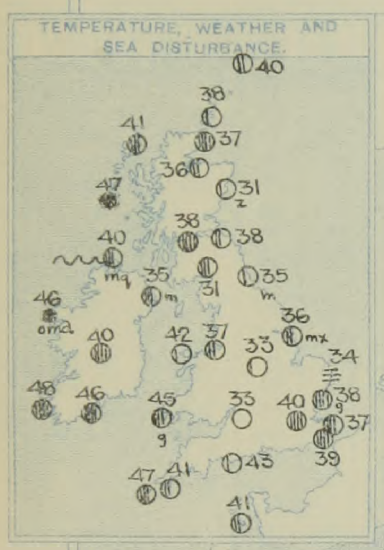
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

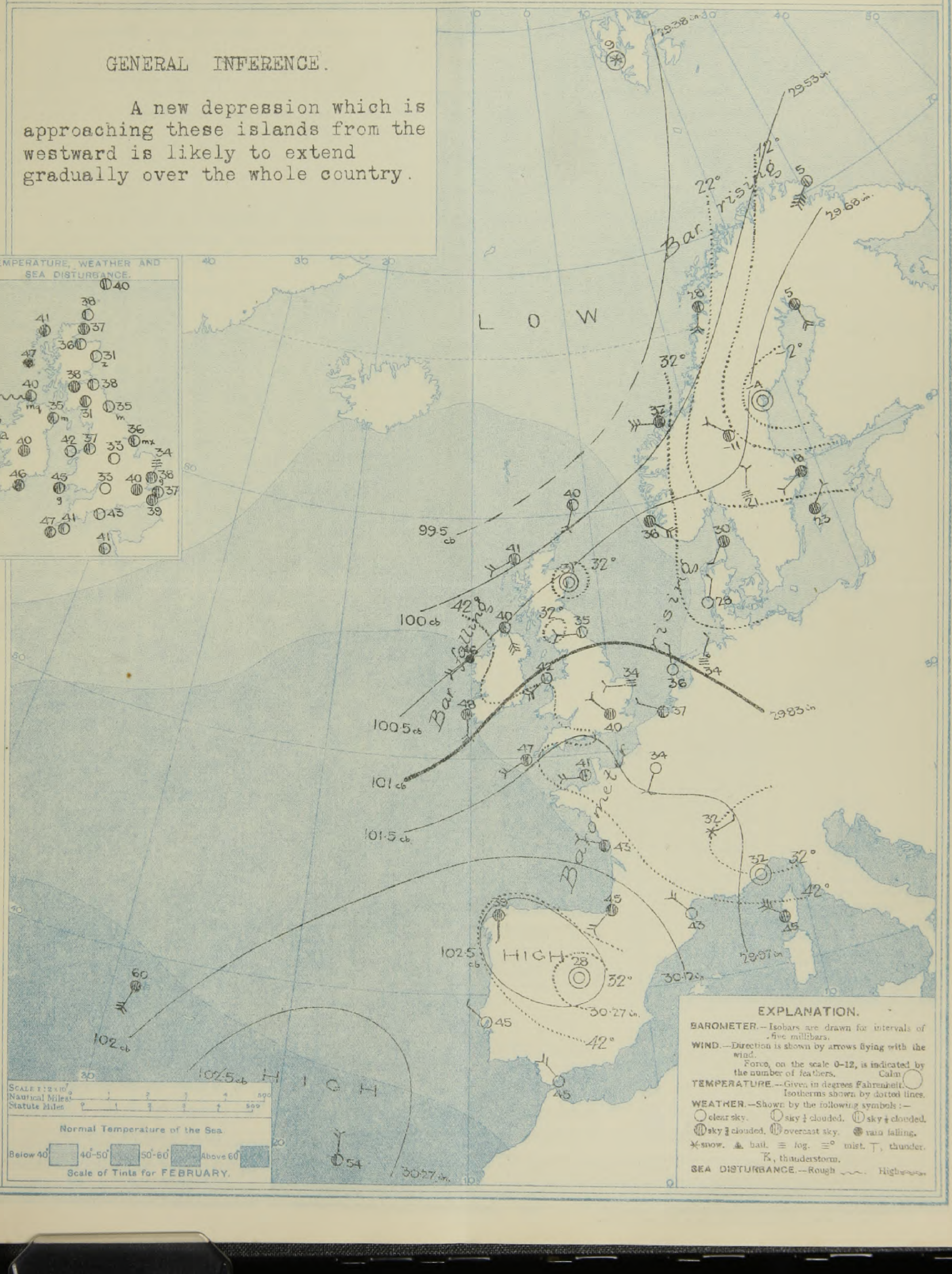
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970
Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., MONDAY, 1ST FEBRUARY, 1915.

GENERAL INFERENCE.

A new depression which is approaching these islands from the westward is likely to extend gradually over the whole country.





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 ~~~.

PILOT BALLOON ASCENTS for the PAST WEEK.

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

	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.
Station	S. Farnboro'		S. Farnboro'		S. Farnboro'		S. Farnboro'		S. Farnboro'		S. Farnboro'			
Date & Hour.	26th 7.30am.		26th 11am.		28th 9.30am		29th 11.30am		29th 3.45pm		30th 4am			
5			-4	+10										
4			-4	+8										
3	-2	+5	-1	+5										
2	+2	+1	+3	-4										
1	-4	+2	+1	+2	-3	-8	-3	-6	-3	-8	0	-3		
0.5	-4	+1	-2	+3	-2	-5	0	-3	+2	-6	+1	-2		
0	-4	0	-2	+1	+1	-1	+1	-2	+2	0	+1	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	1	36	32	g	g	0.0
Scotland.	Banff						
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	4	39	32	s, bc	or	2.3
Eng. N.E.	Scarborough	*	46	40	o	o.c	3.3
Eng. N.E.	Skegness	3	41	33	o	or.o	0.9
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	6	43	33	c.o	o.or	0.7
Eng. N.W.	Southport	7	46	33	c.o.cr	c.or	0.9
Midlands.	Buxton						
Midlands.	Leamington Spa	2	43	31	bc	bc	4.5
Midlands.	Malvern	5	41	34	bc	bc	2.9
Midlands.	Ross-on-Wye	3	44	34	bc	cr.beg	2.6
Wales.	Rhyl	4	44	35			3.5
Wales.	Colwyn Bay	7	43	35	bc	bcp	3.8
Wales.	Llandudno	4	45	39	b	b	4.1
Wales.	Aberystwyth	5	41	35	r.o.c	c.b.o	5.3
Wales.	Tenby	6	46	36	c.b	b	6.6
Wales.	Swansea	6	46	36	c.b	b	6.6
England. E.	Cromer	4	39	33	o.cp	p.oc.h	0.0
England. E.	Lowestoft						
England. E.	Felixstowe	1	42	33	bc	cp	2.4
England. E.	Walton-on-Naze	1	41	33	bc	bc	2.6
England. E.	Southend-on-Sea	0.3	42	35	o	bc	0.8
England. S.E.	Tunbridge Wells	2	41	33	bc	o	0.5
England. S.E.	Margate	1	42	35	g	g	1.6
England. S.E.	Ramsgate	2	41	33	o.bc	bc	2.2
England. S.E.	Folkestone	5	44	35	r.o.bc	bc.b.bc	2.4
England. S.E.	Hastings	7	41	34	or.c	bc.b	0.8
England. S.E.	Bexhill-on-Sea	1	46	39	r.o	o.c	0.3
England. S.E.	Eastbourne	10	43	34	c.bc	bc.c.b	1.8
England. S.E.	Seaford						
England. S.E.	Brighton	7	43	35	o.cp.c	c.bc	2.3
England. S.E.	Worthing	7	43	35	c.bc	bc	1.8
England. S.E.	Littlehampton	7	42	31	c.bc	bc.c	2.0
England. S.E.	Bognor	4	44	36	o	bc	1.6
England. S.E.	Southsea	1	45	33	o.c.b	c.or	3.7
England. S.E.	Bournemouth	5	46	30	bc	bc.b	5.8
England. S.W.	Weymouth	4	46	37	bc	bcg	5.2
England. S.W.	Torquay	8	47	36	b	p.b.bc.o	6.9
England. S.W.	Paignton						
England. S.W.	Falmouth	4	47	39	b	b	6.0
England. S.W.	Penzance						
England. S.W.	Newquay	6	46	37	bv	bv	6.6
England. S.W.	Ilfracombe	4	45	37	c.bc	bc	3.5
England. S.W.	Weston-super-Mare	6	45	30	b.bc.b	b.bc.b	4.0

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.)	74	75	0.2	42	35	29	1	c	c	cp.c
City (Bunhill Row)	*	*	0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	77	91	0.4	43	?	30	-	bc	bc.	w.bc
Camden Sq. (Brit. Rainfall)	-	88	1.2	43	24	27	0.3	-	-	*
Hampstead (Reservoir)	*	89	1.2	42	30	18	0.3	bc.op	c.ox	bm
Richmond Park	*	*	1.8							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	*	81	0.7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
298 Joules	9.2 Milliwatts.	23 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	34	32	r.c.b	bq	bcq	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*	43	35	31	o	p.bc	bc	*
Teignmouth to 9pm.	5	47	36	33	bcr.bc	bc	bcp.bc	6.2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	43	37	33	or.o	o.bc	bc.c	*

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

1st & 2nd Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.38 / 7.36	12.7 / 12.7	4.36 / 4.38
Greenwich	7.41 / 7.39	12.14 / 12.14	4.47 / 4.49
Wick	8.21 / 8.19	12.26 / 12.26	4.31 / 4.33
Valencia	8.25 / 8.23	12.55 / 12.55	5.25 / 5.27

NOTES ON YESTERDAY'S WEATHER.

Over a large portion of the United Kingdom the thermometer failed to reach 45° and at some of the northern stations it did not touch 40°. More than 6 hours of bright sunshine were recorded on some parts of our south-west coasts, nearly 7 hours at Torquay.

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. 33

Tuesday, 2nd February 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 ...	998·2	44	SSW	4	om	985·6	−4	45	+5	S	5	–	orm	5	7	45	39	omd	om	orm	*
	Deerness ...	998·3	38	SSW	4	cg	985·4	*	45	+7	S	5	–	cq	6	6	45	35	b.bc.o	o	orq.o	0·0
	Stornoway ...	994·8	45	S	6	orq	983·0	−2	48	+7	SSW	7	–	orq	5	11	49	40	c.odp	oqp	op.orq	0·0
	Castlebay (Barra Isd.)	994·4	46	S	6	r	985·8	−1	48	+1	SW	6	–	op	6	10	50	44	rd	d.r	r.d.op	0·0
	Glasgow ...	1002·5	43	SSW	4	od	992·7	−1	50	+12	SSW	4	–	o	*	14	50	37	odmp	odp	orq.od	0·0
	Eskdalemuir ...	1006·4	38	SSE	4	or	995·8	−2	44	+13	SSW	6	–	om	*	33	45	29	c.od	odm.or	or	0·0
	Malin Head ..	995·8	47	SW	6	omr	988·7	−1	47	+7	SW	5	SW	cpq	6	3	48	39	cm	omr	cpqv	0·0
	Blacksod Point	994·8	48	SSW	6	omr	990·1	−3	46	0	WSW	6	W	cm	6	7	52	45	omd	omr	o.c.or	*
	Valencia ...	1001·3	51	S	5	m	996·6	−3	47	−1	S	4	–	o	4	6	52	47	omr	mr.p	omd	0·0
	Roche's Point	1005·8	49	SW	4	o	1000·7	*	49	+3	SW	4	–	o	4	9	50	46	odf.	df.om	rf.o	*
	Birr Castle ...	1002·6	48	S	4	o	995·7	*	49	+9	S	3	–	r	*	3	53	40	od	od	or	0·0
	Donaghadee ...	1001·4	45	SSW	5	omrq	994·5	−2	48	+13	SSW	4	–	orm	3	2	50	35	cmq	omr	ompq	*
	Liverpool (Bidston)	1009·7	43	SE	4	o	1001·1	−2	50	+13	SW	6	W	oq	5	7	51	37	bc	o	orq	1·7
	Holyhead ...	1006·5	45	S	6	odmq	999·8	−3	49	+7	SW	6	–	qfeq	6	6	49	39	v.bc.c.o	o.op.md	od.r fc	0·0
	Pembroke (St. Ann's)	1008·4	46	SW	4	o	1004·3	−3	48	+3	SSW	5	–	omq	5	5	48	44	cg	dg	omr	0·0
	Scilly (St. Mary's)	1010·9	50	WSW	5	omr	1007·1	−3	49	+2	SW	5	–	odm	5	7	50	47	op	omr	orm	0·0
	Falmouth ...	1011·3	48	SSW	3	r	1008·4	−1	49	+8	SSW	7	–	dq	6	12	50	41	bc.oe	cd.r	rq.dq	0·9
	Jersey (St. Aubin)	1017·9	47	SSW	3	o	1014·8	*	48	+7	SW	4	–	o	3	15	50	40	bcm.cp	bc.o	odp.rm	2·5
	Portland Bill ...	1015·2	46	SSW	4	o	1011·0	−2	44	+1	SW	5	–	odm	5	3	47	43	bc	c	ogr	*
	Dungeness ...	1017·1	41	WSW	3	cz	1012·5	−3	45	+6	SSW	5	–	r	5	2	45	38	o.bc	bc.oz	c.bc.or	*
	Dover	1017·9	40	SW	3	b	1012·5	−2	44	+7	SSW	7	S	r	6	2	44	37	c.bc.b	bc.b	b.oprm	0·7
	Wick	998·8	43	S	4	o	986·2	o	47	+10	SW	4	–	o	4	4	47	37	opmq	omq	omvp	*
	Nairn	998·4	44	W	1	cg	986·5	*	50	+14	W	2	–	cu	2	0·2	50	34	oug	og	q.op	0·0
	Aberdeen ...	1003·1	41	S	4	o	990·9	o	49	+18	S	4	–	c	4	3	49	31	3 rs.bc	bc.b	orq.c	0·1
	Leith	1004·1	46	SSW	3	o	992·2	−3	53	+15	SW	4	SW	cq	*	2	53	38	cg	c.o	od.opq	*
	Tynemouth ...	1009·2	41	S	3	om	998·3	o	50	+15	SW	4	–	o	4	3	50	35	bcm	bcm	orm	*
	Spurn Head ...	1013·9	40	SSW	4	o	1004·3	−3	44	+8	S	6	–	orq	6	5	45	35	bcm	bc.o	bcqr	3·1
	Yarmouth ...	1016·6	38	S	2	bcm	1008·8	−3	38	+4	S	6	S	or	3	2	43	34	f.bcm	bcm	or	1·5
	Clacton-on-Sea	1016·3	39	S	2	ogm	1010·6	−3	42	+4	S	4	–	og	4	3	44	36	o.c.bc	bc.ogm	o.bc.or	4·4
	Nottingham ...	1013·1	41	SW	1	bc	1005·2	*	50	+17	SW	4	SW	o	*	4	50	32	bm	bm	bc.op	1·3
	Bath	1014·7	46	S	3	o	1009·9	*	50	+17	SW	3	SW	o	*	2	52	31	bm.o	o	od.r.o	4·4
	London (Kew Obsy.)	1016·8	42	WSW	2	om	1010·0	−3	48	+8	SW	4	–	o	*	3	48	38	bcm.bc	bc.c.om	om.bcor	4·3
ICELAND, FAEROE, &c.	Spitsbergen ...	994·4	7	–	o	S	996·4	*	−4	−13	S	1	*	b	*	*	9	−6				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1010·6	18	SW	2	bc	1011·4	+1	18	+13	SSW	6	–	o	4	*	19	1				
	Bodö	995·0	21	E	6	b	992·3	−4	23	−5	E	6	–	o	2	?	28	16				
	Christiansund	997·5	37	SW	7	r	993·2	−2	?	?	–	0	–	o	4	5	37	36				
	Skudesnaes ..	1007·8	39	S	6	o	1000·7	−4	39	+3	S	10	–	r	7	3	39	36				
	Færder (Christiania Fjord)	1011·0	36	SW	5	o	1011·1	o	36	−9	S	6	–	m	3	–	36	27				
	The Scaw (Skagen)	1014·3	32	SW	3	b	1014·7	−3	32	+2	SSW	4	–	o	5	–	34	30				
	Blaavands Huk	1018·0	34	SSW	2	b	1015·9	−3	36	+8	SSW	6	–	m	5	–	38	27				
	Haparanda ...	1012·3	7	SSE	4	s	1011·8	o	10	+5	SSE	6	–	s	*	1	12	5				
	Hernösand ...	1007·9	18	–	o	c	1008·0	o	10	+14	–	o	–	b	*	–	18	−6				
	Stockholm ...	1010·9	27	SSW	2	o	1014·7	+1	32	+14	SW	2	–	o	*	–	32	18				
	Wisby	1014·6	32	NW	4	o	1019·4	+2	32	+9	WSW	4	–	o	*	–	34	23				
	Karlstad	1011·4	30	–	o	o	1014·1	+1	32	+11	WSW	4	–	o	*	–	32	19				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1018·4	36	SSE	2	o	1015·0	−5	34	−2	SSE	7	–	c	4	–	43	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1017·7	41	SW	3	o	1013·0	−3	42	+1	SSW	6	*	r	6	1	42	39				
	La Hève	1015·5	40	SW	3	o	1015·8	*	44	+8	SSW	4	*	o	4	1	49	39				
	Ushant	1015·9	50	SW	5	r	1012·8	*	50	o	SW	5	*	f	7	5	52	46				
	Brest (St. Mathieu)	1016·7	48	SW	3	r	1014·7	−2	49	+2	WSW	5	*	o	5	4	50	47				
	Rochefort (Ile d'Aix)	1023·3	46	WSW	3	o	1022·6	o	47	+4	SW	3	*	o	*	2	50	41				
	Biarritz	1025·3	46	WSW	3	o	1024·3	o	43	−2	SE	1	*	o	2	4	48	43				
	Paris	1021·1	38	–	o	c	1020·6	o	37	+1	SSE	3	–	o	*	–	41	34				
	Belfort							*					*		*							
	Lyons	1021·7	35	WSW	1	o	1027·7	*	39	+7	SSW	1	*	f	*	1	40	27				
	Nice												*									
	Perpignan ..	1023·9	45	NW	3	c	1025·0	+1	41	−2	NW	2	–	o	*	–	54	39				
	Sanguinaire ...	1013·2	46	N	5	bc	1015·4	*	43	−2	E	2	*	b	3	–	45	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1025·7	52	WSW	4	o	1024·0	−2	50	+11	S	6	–	o	4	–	54	39				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1017·6	*	WSW	4	o	1022·7	−1	54	−6	SW	4	*	b	3	6	61	50				
	Madeira (Funchal)																					

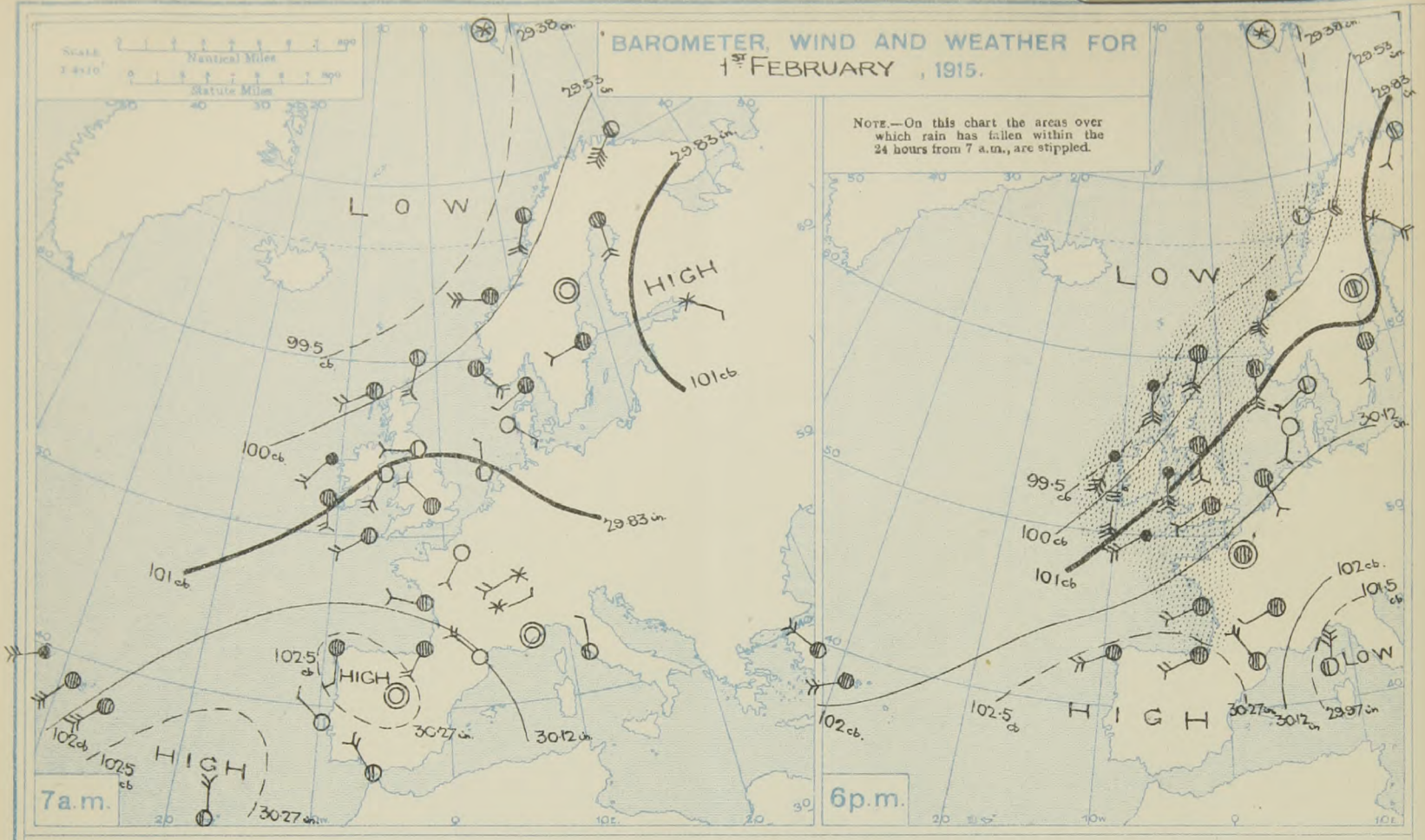
RAINFALL.

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

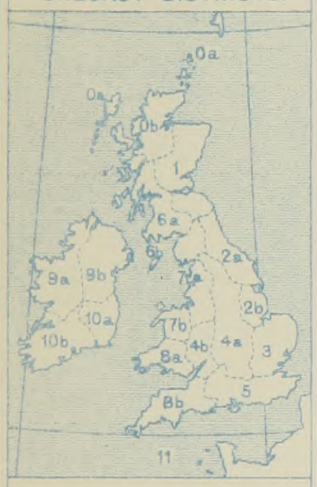
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 1ST FEBRUARY, 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.

Western Channel and Bay 11

0 {a b} 1 2 {a b} 3 4 {a b} 5 6 {a b}

Southerly and South-Westerly winds, fresh or strong; cloudy, occasional rain, some mist; mild.

7 {a b} 8 {a b} 9 {a b} 10 {a b}

Southerly and South-Westerly winds, fresh or strong, high at times; much cloud, some rain and mist; mild.

11

Southerly and South-Westerly winds, fresh or strong; sea rough; rainy, some mist, then fairer.

FURTHER OUTLOOK.

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

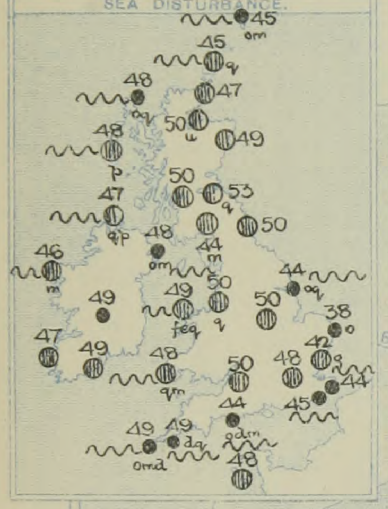
Millibs Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 2ND FEBRUARY, 1915.

GENERAL INFERENCE.

The centre of the depression appears to be moving north-north-eastward, and fresh to strong or high winds from South and South-West will probably continue over these islands for the present.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Inches.
31
30
29

LOW

HIGH

Barometer falling

Barometer steady

Barometer rising

Wind unsteady

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

SCALE 1 : 12 × 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 FEBRUARY.

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. ⊤N, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈

DAILY WEATHER REPORT. Tuesday, 2nd February, 1915.

REPORTS FOR YESTERDAY.

1st February,

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.	1006·6	10	–	0	s	1012·0	+2	12		SE	1	–	s	*	–	12	0
Belfort	1012·7	28	W	4	m	1015·4	*	30	+14	WSW	3	–	s	*	2	30	16
Rome	1017·1	36	N	1	b	1016·2	+1	28	−6	N	1	–	bc	*	–	45	28

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	42	31	bc,c	b	0·1
Scotland.	St. Andrews	–	44	27	*	*	0·0
Eng. N.E.	Harrogate	0·3	41	30	c·o	o·c	0·0
Eng. N.E.	Scarborough	*	41	31	o·c	o·c	2·0
Eng. N.E.	Skegness	1	43	28	m·o,b	bc·o	3·8
Eng. N.W.	Morecambe	–	43	30	bc·c	c·o	0·0
Eng. N.W.	Blackpool	0·3	43	33	bc·c	c·o	0·4
Eng. N.W.	Southport	0·3	44	35	c·bc	bc·o	1·0
Midlands.	Buxton	8	40	32	bc	bc	4·1
Midlands.	Leamington Spa	1	47	31	bc	bc·c	4·6
Midlands.	Malvern	–	45	35	b	b.bc	4·3
Midlands.	Ross-on-Wye	–	46	30	sg,b	c·ow	2·9
Wales.	Rhyl	2	47	32			0·7
Wales.	Colwyn Bay	–	47	35	c·o	sg	2·0
Wales.	Llandudno	1	48	39	c	c	1·2
Wales.	Aberystwyth	1	47	37	o,c,b	c·or	1·5
Wales.	Tenby	1	46	32	bc·o	bc,or	0·0
Wales.	Swansea	1	45	34	bc,or	or	0·0
England. E.	Cromer	1	42	32	bc	bc·o·cm	5·9
England. E.	Lowestoft	–	42	34	of·c	c·bc·cm	1·5
England. E.	Felixstowe	1	44	36	bcm	bcm	5·3
England. E.	Walton-on-Naze	1	43	35	bc	bc·c	5·7
England. E.	Southend-on-Sea	0·3	44	35	bc·b	t.bc	3·0
England. S.E.	Tunbridge Wells	–	45	35	m·b	o	2·3
England. S.E.	Margate	–	42	36	b	bc	4·1
England. S.E.	Ramsgate	1	43	35	bc	bc	5·0
England. S.E.	Folkestone	1	44	36	c.bc.b	bc.b	3·5
England. S.E.	Hastings	–	44	36	o.bc	bc.b	2·6
England. S.E.	Bexhill-on-Sea	–	48	39	b	b	6·4
England. S.E.	Eastbourne	–	45	34	b	b	4·9
England. S.E.	Seaford	–	45	36	bc	bc	5·0
England. S.E.	Brighton	–	45	37	bcm·c	bc.c.o	4·2
England. S.E.	Worthing	1	47	34	bc	bc.b	5·6
England. S.E.	Littlehampton	–	44	31	bc.b	b.bc	5·9
England. S.E.	Bognor	0·3	44	37	b	b.bc	5·6
England. S.E.	Southsea	1	48	37	b	b.bc	5·9
England. S.E.	Bournemouth	0·3	49	33	b	b.or	4·8
England. S.W.	Weymouth	–	51	36	bc	bc.cm	3·6
England. S.W.	Torquay	0·3	50	35	bc	bc.c.o	1·3
England. S.W.	Paignton	1	51	32	bc	bc.od	2·1
England. S.W.	Falmouth	9	49	41	bc.oe	cd.r	0·9
England. S.W.	Penzance	11	50	42	bcw	or	0·2
England. S.W.	Newquay	7	49	40	bc.o	orm	0·6
England. S.W.	Ilfracombe	2	49	40	c.bc.c	c.or.w	0·6
England. S.W.	Weston-super-Mare	–	48	37	bc.b	b.e.c.o	2·5

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.)	78	96	1·9	48	39	32	3	b.bc	bc.b	bc.o.or
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	94	0·7	50	?	32	4	bc	bc	bc.or.o
Camden Sq. (Brit. Rainfall)	71	94	2.0	49	37	35	4	b.bc	bc.o	*
Hampstead (Reservoir)	*	99	4·3	47	37	33	4	bc	bc.o	or.o
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.) 65 92 1·5	389 Joules	11·9 Milliwatts. 26 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.	–	50	35	32	bc	c.o	o	*
Darwen to 9 p.m.								
Manchester ,,	Trace	44	32	*	bc.op	o.c.o	or	0·8
Birmingham ,,	–	43	32	29	b	b.c	c.o.r	4·3
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	2	51	35	28	bc	bc.c	c.o.d	0·9
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	46	38	29	p.o	b.bc	c.o	*

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

2nd & 3rd Feby 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·36 / 7·35	12·7 / 12·7	4·38 / 4·39
Greenwich	7·39 / 7·38	12·14 / 12·14	4·49 / 4·50
Wick	8·19 / 8·17	12·26 / 12·26	4·33 / 4·35
Valencia	8·23 / 8·21	12·55 / 12·55	5·27 / 5·29

NOTES ON YESTERDAY'S WEATHER.

Temperature rose very decidedly during the latter part of the day, and reached its maximum during the night. Bright sunshine was very prevalent over the greater part of England. Rain was general; at Eskdalemuir the measurement was 33 mm.

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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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. 34

Wednesday, 3rd February 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 ...	986·3	46	SSW	4	om	991·4	+2	42	−3	S	4	S	be	4	1	48	40	omd	cm	rm.bc	*
	Deerness ...	985·8	44	S	5	oq	990·5	*	41	−4	S	6	–	o	5	–	47	39	oq	oq.c.o	o	0.5
	Stornoway ...	981·1	43	SSW	8	cqp	985·2	−1	42	−6	SSW	8	–	opq	6	6	48	38	oqp	o.cprhq	c.opq	0·0
	Castlebay (Barra Isd.)	983·9	46	SSW	7	bcp	985·5	−2	45	−3	SSE	7	–	op	7	2	49	41	ohp.o	o.bcp	bc.op	0·0
	Glasgow ...	991·4	43	SSW	2	o	996·1	−4	43	−7	SSW	6	–	odq	*	4	50	34	p.rsqp	oqp.o	rsp.b.o	0·0
	Eskdalemuir ...	993·4	37	S	3	or	999·1	−2	40	−4	SSW	7	–	o	*	21	45	34	om.or	orq.or	o	0·0
	Malin Head ...	988·1	41	SW	6	cq	985·7	−5	44	−3	SW	6	SW	cq	6	–	48	38	cq	cq	cq	0·4
	Blacksod Point	990·5	41	WSW	7	bcp	979·8	−8	45	−1	WSW	8	W	ompq	6	13	46	37	cmqps	bcm	cp.or	*
	Valencia ...	989·0	41	SW	5	b	987·5	−5	50	+3	SSE	6	–	o	6	14	50	37	omp	cph	orq	0·8
	Roche's Point	1000·6	40	W	4	b	995·4	*	49	o	SW	8	–	om	6	11	49	38	mr	o.cqp.b	bc.gr.o	*
	Birr Castle ...	995·9	37	SW	2	o	992·3	*	46	−3	S	6	–	r	*	6	49	36	o	c.op	o or	0·2
	Donaghadee ...	992·2	35	W	2	cm	994·7	−5	45	−3	S	5	–	omrq	4	3	48	34	omp	cptlh	bc.b.or	*
	Liverpool (Bidston)	996·7	41	WSW	2	r	1004·3	−2	40	−10	SE	3	–	o	3	7	52	39	od	or	bc.o	0·0
	Holyhead ...	995·0	45	SSW	5	omp	1000·8	−4	45	−4	SSW	6	–	opmq	6	14	49	42	of.mr	or.op	op.b.or	0·0
	Pembroke (St. Ann's)	1000·3	43	WSW	6	c	1003·6	−4	47	−1	S	5	–	opq	5	7	48	41	omq	omdq	cpq	0·2
	Scilly (St. Mary's)	1006·0	43	W	8	cqp	1004·8	−5	49	0	SSW	6	SW	omq	7	4	50	38	omd	cmqp	cq.c.om	0·3
	Falmouth ...	1006·1	44	WSW	6	bc	1007·2	−3	48	−1	SSW	6	–	o	5	5	50	42	o.cq.clq	rq.pq	bc.b.oq	0·0
	Jersey (St. Aubin)	1010·9	49	SSW	4	omr	1015·1	*	45	−3	SSE	5	–	oe	4	4	50	44	od.oe	dp.omr	b.bc.oe	0·0
	Portland Bill ...	1005·6	48	SW	6	cu	1012·1	−2	47	+3	SSW	5	SW	o	5	3	49	43	op	or	bc.c.or	*
	Dungeness ...	1008·4	47	S	8	r	1015·4	+2	45	o	S	5	SW	c	4	5	48	42	omr	orq	or.bc	*
	Dover	1008·4	45	S	6	or	1016·6	+2	45	+1	SSW	6	–	b	4	5	46	39	or.d	or.d	or.c.bc	0·0
	Wick	986·0	45	S	5	o	991·1	+2	41	−6	S	5	–	o	4	0.3	48	38	omp.cm	cm.om	bo.o	*
	Nairn	987·2	42	SW	4	bc	991·6	*	41	−9	W	3	–	cg	3	–	52	36	c.bc	bcq	cq.x	0·3
	Aberdeen ...	990·1	44	SSW	4	o	997·7	+2	39	−10	S	4	W	bc	3	Trace	50	37	c.op	o	o.b.bc	0·0
	Leith	991·7	42	SSW	2	o	997·0	−2	44	−9	SSW	4	S	c	*	2	54	38	cq.opr	or	or	*
	Tynemouth ...	994·0	42	WNW	3	omr	1003·2	+3	40	−10	S	3	–	o	4	6	51	38	om	cm	c	*
	Spurn Head ...	997·3	45	S	6	r	1008·7	+3	39	−5	S	5	–	cq	5	1	47	36	oq	od.r	oqr	0·0
	Yarmouth ...	1004·3	47	S	6	om	1013·2	+1	38	o	SW	3	–	bc	2	4	48	36	omr	omr	omr.bc	0·0
	Clacton-on Sea	1006·1	44	S	4	oq	1014·2	+2	40	−2	SSW	4	SW	c	3	2	45	38	oq	oq	oqq.r.c	0·0
	Nottingham ...	998·7	48	SW	7	r	1008·7	*	42	−8	SW	4	SW	o	*	1	52	38	o	or	op.c.b	0·0
	Bath	1003·4	46	SSW	4	o	1010·4	*	47	−3	SSW	4	S	o	*	7	52	40	or	or	r.o.b.or	0·0
	London (Kew Obsy.)	1004·7	48	SW	6	or	1013·6	+2	44	−4	SSW	3	W	o	*	4	50	39	o	od.r	or.orq.bc	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	987·4	10	SE	2	be	1002·0	*	14	+18	S	2	*	o	*	*	3	−11				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1008·4	23	S	8	c	1013·9	+3	27	+9	S	6	–	o	3	*	27	1				
	Bodö	995·5	37	SE	5	bc	998·1	o	37	+14	SE	7	–	c	3	–	37	23				
	Christiansund	991·0	45	SW	5	c	993·9	+3	41	–	–	o	–	o	4	2	45	41				
	Skudesnaes ..	996·2	41	S	7	f	1000·6	+6	41	+2	SSW	4	–	o	6	40	41	36				
	Færder (X'iania Fjord)	1004·7	36	SSW	6	m	1001·9	+1	36	o	SE	5	–	r	4	2	36	34				
	The Scaw (Skagen)	1007·0	34	SSW	7	r	1003·5	o	37	+5	SSW	4	–	r	4	5	37	32				
	Blaavands Huk	1008·3	37	SSW	6	f	1006·4	+5	39	+3	W	2	–	c	4	5	39	34				
	Haparanda ...	1011·8	19	SSE	6	s	1017·2	+3	−2	−12	SSE	6	–	o	*	Trace	21	−2				
	Hernösand ...	1006·4	32	SW	2	o	1009·2	+3	32	+22	SSE	4	–	s	*	Trace	34	9				
	Stockholm ...	1012·4	28	SSW	2	o	1008·6	o	32	o	SSE	2	–	o	*	Trace	32	28				
	Wisby	1017·1	32	SW	4	o	1009·0	−4	34	+2	WSW	2	–	o	*	1	34	30				
	Karlstad	1009·3	32	SW	4	s	1006·1	−3	34	+2	–	o	–	f	*	3	34	30				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1009·0	41	S	8	r	1014·9	+8	43	+9	SW	4	–	b	4	20	45	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1009·2	45	S	7	o	1016·3	+1	43	+1	SSW	6	*	o	5	7	46	42				
	La Hève	1013·9	45	SW	5	bc	1017·5	*	43	−1	S	5	*	bc	4	1	48	39				
	Ushant							*					*									
	Brest (St. Mathieu)	1013·5	50	W	6	o	1012·8	−4	50	+1	S	1	*	o	7	–	54	48				
	Rochefort (Ile d'Aix)	1021·7	49	SW	5	o	1021·3	o	44	−3	S	4	*	o	*	Trace	50	43				
	Biarritz	1023·9	47	NE	2	bc	1022·6	−2	46	+1	SSE	2	*	b	5	–	52	43				
	Paris	1018·3	45	SSW	4	o	1022·1	o	43	+6	S	2	–	o	*	–	46	37				
	Belfort	1026·6	32	ENE	2	b	1027·1	*	34		W	3	*	r	*	3	40	27				
	Lyons	1026·9	34	–	o	o	1028·8	*	34		ENE	1	*	o	*	1	39	30				
	Nice												*									
	Perpignan ..	1024·2	48	–	o	o	1026·9	+2	41	o	–	o	–	c	*	–	54	32				
	Sanguinaire ...	1019·7	47	N	4	b	1020·2	*	43	o	E	2	*	b	2	–	45	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022·7	54	SSW	6	b	1018·4	+5	54	+4	SSW	6	–	o	5	1	55	50				
	Madrid (8 a.m.)	1027·8	45	W	2	c	1030·3	o	30		–	o	–	b	*	–	45	28				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1016·0	*	SW	7	o	1005·5	+6	50	−4	WNW	5	*	o	6	2	61	48				
	Madeira (Funchal)	1023·0	59	SE	2	o	1025·0	−1	57	+2	W	2	NW	o	2	–	61	57				

GALES.

Duration and Extreme Force in British Islands.

Stornoway
2nd 6pm SSW 8 3rd 3am. squall SW 8

Roche's Point
2nd Midt - 3rd 7am. SW. 8.

Scilly
2nd 3pm. gust 32mps
" 5pm - 8pm. W 8.

Dungeness.
2nd 4pm - Midt 5.9 at 10pm.

Dover
2nd 11pm. 8.10.

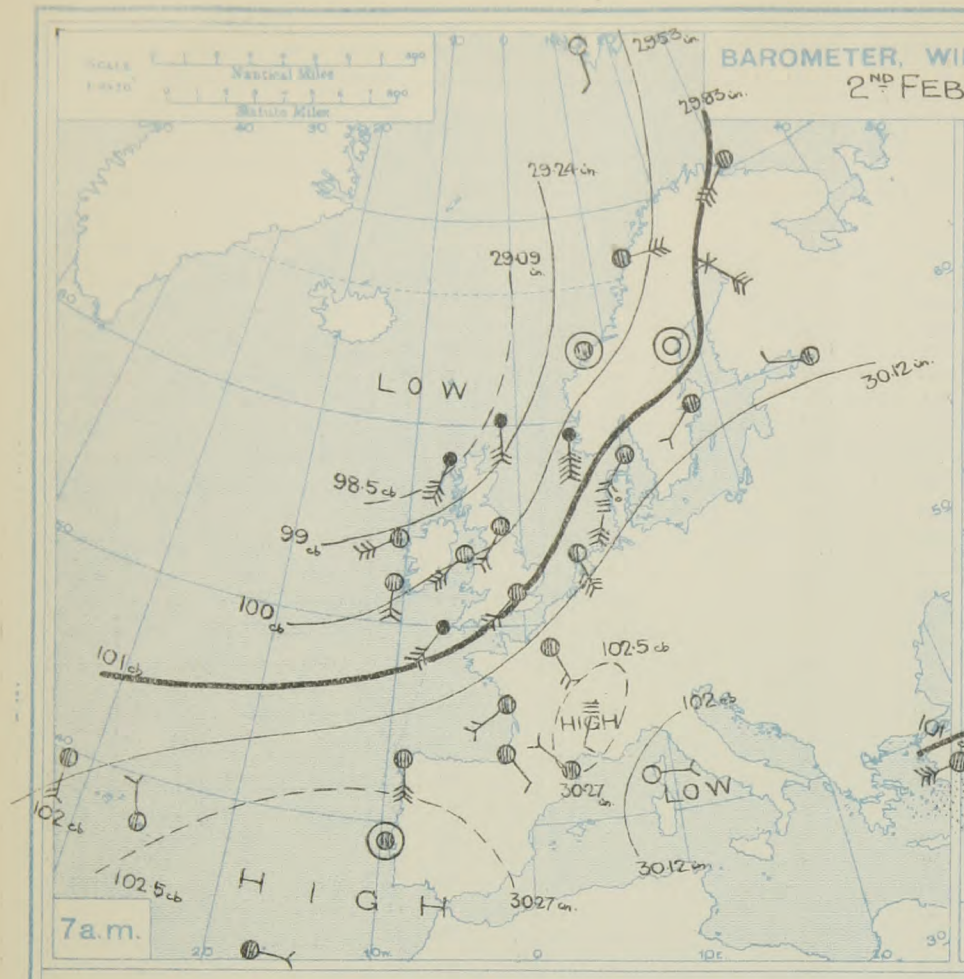
London (Kew)
2nd 5.40pm. SW. 8
" 6.15p.m. SW. 9.
" 9.5p.m. WSW 8.

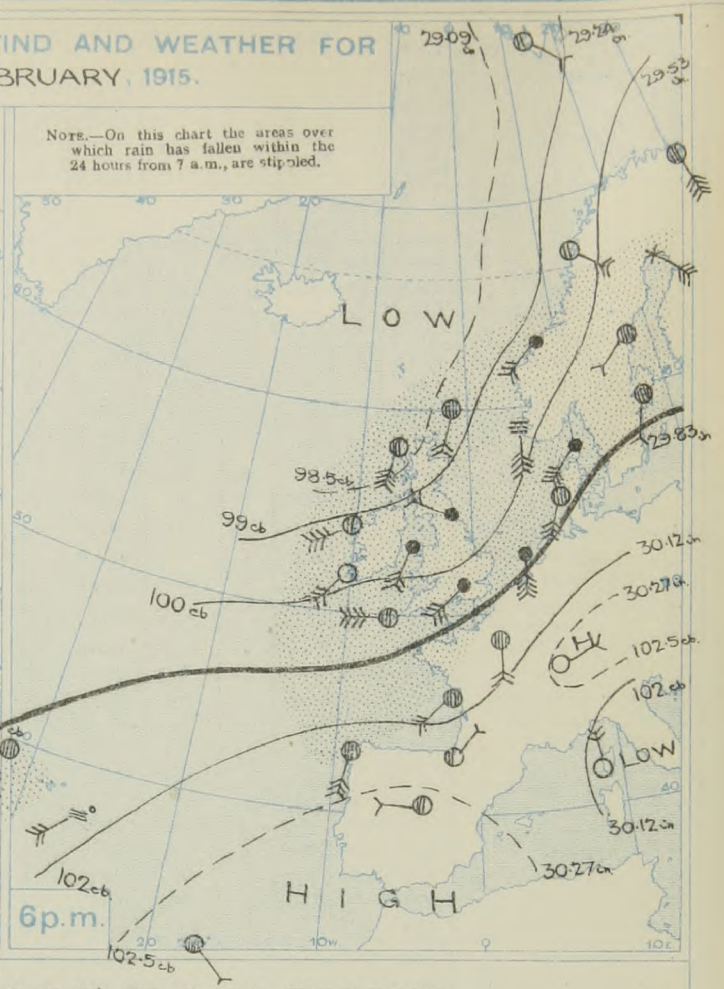
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 2ND FEBRUARY, 1915.

Nautical Miles
Statute Miles

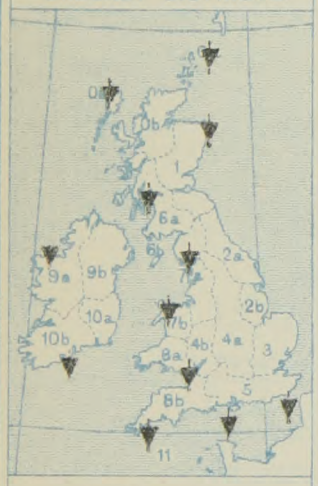
Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON 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. 5 a.m.

0 a, 0 b, 1	Southerly and South-Westerly winds, strong or high, a gale in places; cloudy or overcast generally, rain at times, most in west; mild.
2 a, 2 b, 3, 4 a, 4 b	Southerly and South-Westerly winds, increasing considerably in force; much cloud generally, some passing showers or steady rain; mild.
5	Southerly and South-Westerly winds, fresh or strong to a gale; some rain or passing showers; mild.
6 a, 6 b, 7 a, 7 b, 8 a, 8 b, 9 a, 9 b, 10 a, 10 b	Southerly and South-Westerly winds, strong or high, a gale in places; cloudy or overcast generally, rain at times, most in west; mild.
Western Channel and Bay 11	Southerly and South-Westerly gales or strong winds; sea very rough; occasional rain, some mist.

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

FURTHER OUTLOOK.

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

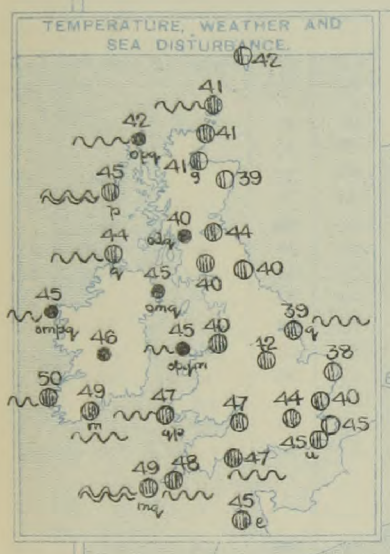
W. N. SHAW, Director

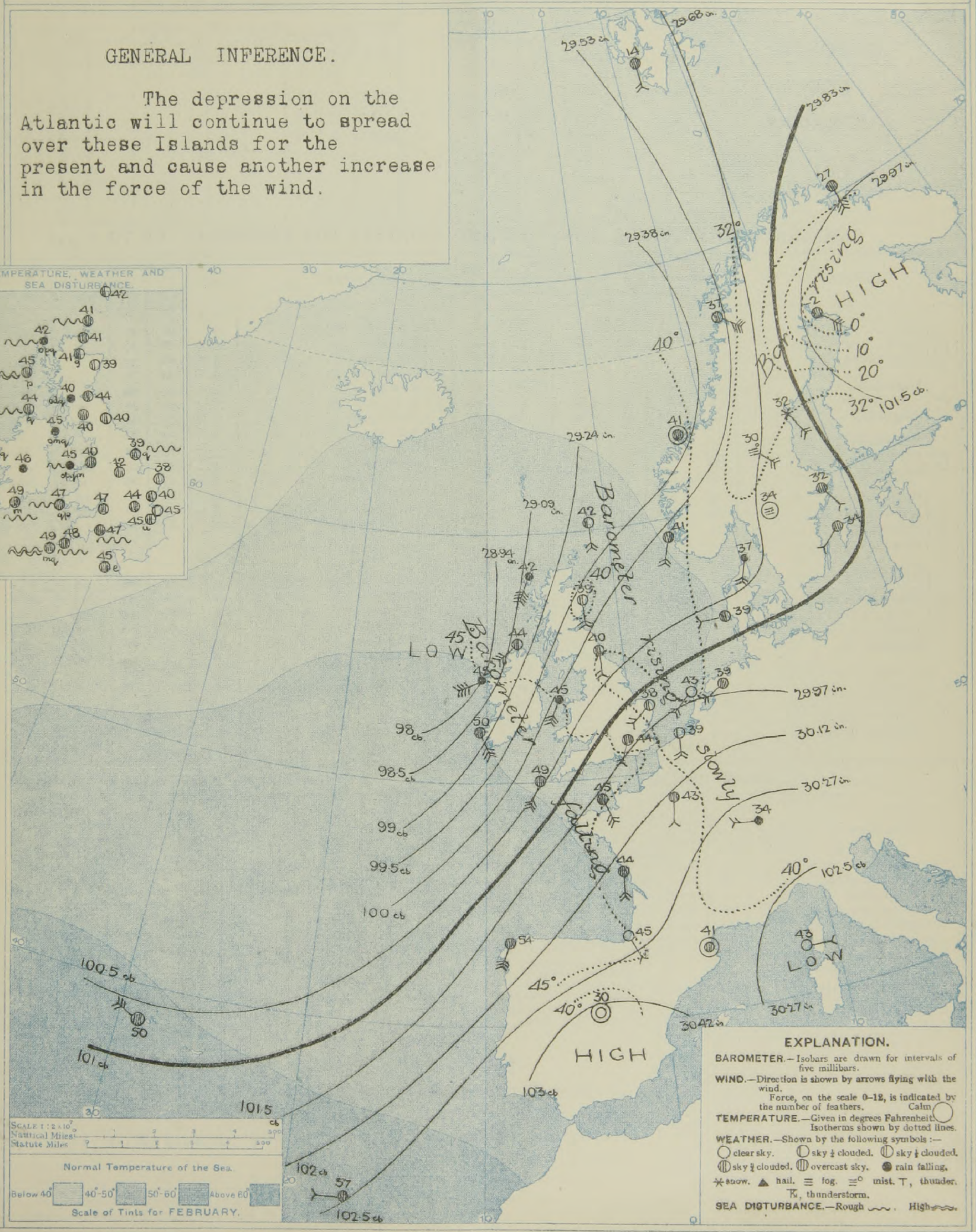
SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 3RD FEBRUARY, 1915.

GENERAL INFERENCE.

The depression on the Atlantic will continue to spread over these Islands for the present and cause another increase in the force of the wind.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





Scale 1 : 2 x 10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

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. Wednesday, 3rd February, 1915.

REPORTS FOR YESTERDAY.

2nd February.

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.								
Petrograd	1016.0	7	WNW	1	0	1019.8	+1	28	+14	WNW	1	-	bc	*	-	?28	-4
Lisbon	1027.5	50	NW	2	b	1028.7	+2	45		-	0	-	0	?	-	54	45
Funchal	1026.9	59	N	2	0	1029.2	0	55		E	2	N	0	2	-	63	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	1	52	41	c	c	0.1
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	13	50	37	o	op	0.0
Eng. N.E.	Scarborough	*	51	38	o	o	0.0
Eng. N.E.	Skegness	7	49	39	o	or	0.0
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	22	50	41	cg.o	o.or	0.0
Eng. N.W.	Southport	13	52	41	c.o	or	0.0
Midlands.	Buxton	12	48	35	bc	cr	0.0
Midlands.	Leamington Spa	6	51	35	o	ce	0.0
Midlands.	Malvern	12	50	39	c	r	0.0
Midlands.	Ross-on-Wye						
Wales.	Rhyl	9	53	41	o	o	0.0
Wales.	Colwyn Bay	11	51	42	ocu	o	0.0
Wales.	Llandudno	12	56	47	o	o	0.7
Wales.	Aberystwyth	7	50	42	r.o.c	or	0.0
Wales.	Tenby	19	49	43	r	or	0.0
Wales.	Swansea	15	49	42	ur	hr	0.0
England. E.	Cromer	3	49	36	o.c	o.c	0.0
England. E.	Lowestoft	7	45	37	or.fm	or	0.0
England. E.	Felixstowe	5	45	34	or	or	0.0
England. E.	Walton-on-Naze	3	44	37	r.o.sq	o.cp	0.0
England. E.	Southend-on-Sea	2	48	37	o	e.dr	0.0
England, S.E.	Tunbridge Wells	5	48	39	odm	or	0.0
England, S.E.	Margate	4	48	33	o	o	0.0
England, S.E.	Ramsgate	3	46	37	e	d	0.0
England, S.E.	Folkestone	4	46	39	r.o	or	0.0
England, S.E.	Hastings	4	47	43	od	od	0.0
England, S.E.	Bexhill-on-Sea	3	46	39	or	r.or	0.0
England, S.E.	Eastbourne	8	47	43	od	og	0.0
England, S.E.	Seaford	7	47	43	o	o	0.0
England, S.E.	Brighton	7	47	38	or	r.o	0.0
England, S.E.	Worthing	7	47	43	od	od	0.0
England, S.E.	Littlehampton	5	47	38	o	cr.cq	0.0
England, S.E.	Bognor	7	47	42	od	or	0.0
England, S.E.	Southsea	3	49	38	or	d.or	0.0
England, S.E.	Bournemouth	8	49	44	r. or	or.o	0.0
England, S.W.	Weymouth	12	49	46	od	cr.c	0.0
England, S.W.	Torquay	8	50	47	od	r.o	0.0
England, S.W.	Paignton	8	51	46	op	op	0.0
England, S.W.	Falmouth	5	50	44	o.cq.dq	rq.pq	0.0
England, S.W.	Penzance	12	51	48	op	oprh	0.0
England, S.W.	Newquay	9	51	44	opq	opq	0.0
England, S.W.	Ilfracombe	11	52	44	or	r.epc	0.0
England, S.W.	Weston-super-Mare	6	51	38	o	r.bc	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.)	92	85	0.0	49	39	32	4	a.or	q.gr.o	c.bc.rq
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	86	0.0	51	?	32	5	oe	oe	ore.ue
Camden Sq. (Brit. Rainfall)	88	84	0.0	50	39	33	4	o	o.or	*
Hampstead (Reservoir)	*	84	0.0	48	34	36	3	c.or	o	o
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.
S. Kensington (Roof of M.O.)	75 Joules	2.3 Milliwatts.	6 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.	5	50	42	41	opq	ogp	pq	*
Darwen to 9 p.m.								
Manchester ,,	13	52	42	*	or	o	or	0.0
Birmingham ,,	7	50	38	37	r	o	or	0.0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	4	51	44	45	r.od	d	r.o	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	50	42	36	or.	or.o	o.odq	*

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

3rd-4th Feb. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.36 / 7.33	12.7 / 12.7	4.39 / 4.41
Greenwich	7.38 / 7.36	12.14 / 12.14	4.50 / 4.52
Wick	8.17 / 8.15	12.26 / 12.26	4.35 / 4.37
Valencia	8.21 / 8.19	12.35 / 12.55	5.29 / 5.31

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° in many parts of the Kingdom and the night was also rather mild. Rain fell very generally, and a thunderstorm occurred at Donaghadee. Scarcely any bright sunshine was recorded.

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. 35

Thursday, 4th February 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 ...	991·2	45	S	7	om	989·6	0	48	+6	S	8	-	omq	7	2	49	41	cm	cm	ogmq	*
	Deerness ...	?	46	SSE	8	ouq	986·1	*	46	+5	S	7	-	cq	7	-	50	39	oq	ouq	oq.c	0.0
	Stornoway ...																					
	Castlebay (Barra Isd.)																					
	Glasgow ...	991·1	49	SSE	4	o	992·7	+6	45	+2	SSW	4	-	c	*	7	50	42	or.o	ogp	ogpr	0.0
	Eskdalemuir ...	994·2	49	S	6	or	996·4	+4	42	+2	SSW	6	-	od	*	10	49	39	o.or.o	o.or	or	0.0
	Malin Head ...	971·7	54	S	9	c	983·8	+5	47	+3	S	8	S	cq	7	Trace	54	42	cq	cq	cq	0.0
	Blacksod Point	971·3	48	SSW	8	omdq	984·0	+9	46	+1	SSW	8	SW	cpq	7	11	52	41	or	edm	ompqrtl	*
	Valencia ...	979·0	48	SSE	5	r	991·5	+9	46	-4	SSW	3	-	bc	5	12	53	43	gmqp	mr.b	mr	0.0
	Roche's Point	985·3	50	SSW	9	r	995·6	*	48	-1	WSW	3	W	c	7	7	51	45	or	or	r.c	*
	Birr Castle ...	987·1	49	S	7	r	993·7	*	45	-1	S	4	-	c	*	4	53	43	orq	orq	cq	0.0
	Donaghadee ...	987·2	50	SSW	7	omqp	991·3	+4	44	-1	SSW	5	-	bq	4	1	50	43	omqp	omgq	ompq.b	*
	Liverpool (Bidston)	999.1	51	S	4	o	999.3	+3	47	+7	SSE	3	S	o	3	1	52	40	od	op	oq	0.0
	Holyhead ...	994·6	51	S	8	omq	997·3	+6	47	+2	SSW	5	SW	cm	6	5	51	45	op.oeq	opd.oq	o.or.oc	0.0
	Pembroke (St. Ann's)	996·5	49	S	8	o	998·0	+4	47	c	SSW	4	SW	cqq	5	4	50	43	opq	omdq	omq	0.0
	Scilly (St. Mary's)	996·6	51	S	8	om	998·0	+3	48	-1	SW	3	SW	opm	6	2	53	43	omd	omp	ompq	0.0
	Falmouth ...	1001·7	51	SSW	7	c	1000·9	+3	48	a	SSW	4	-	o	5	1	53	48	oq	oq	orq.o	0.0
	Jersey (St. Aubin)	1012·0	50	SSE	5	b	1008·2	*	45	o	SSE	5	SW	o	4	-	53	44	o.c.bc.o	o.b	o.bc.o	3.5
	Portland Bill ...	1008·0	47	SSW	6	c	1004·5	+1	47	o	S	6	SW	cr	6	1	48	43	c.o	c.o	ed.r	*
	Dungeness ...						1010·0	-2	44	-1	SSW	5	SW	cq	5	-	48	42			bc	*
	Dover	1013·0	47	S	4	c	1011·5	o	43	-2	S	5	SW	bc	4	-	47	42	b.o.c	c	c.bc.b	0.0
	Wick	988·7	44	SSE	5	o	986·5	+4	46	+5	SSE	5	-	c	6	-	49	40	om	omq	oq.cmq	*
	Nairn	986·5	50	SSW	4	cq	987·2	*	45	+4	SW	5	-	cqu	4	0.4	53	40	bcq	bcgq	pq.c	1.3
	Aberdeen ...	993·5	46	SSE	5	o	993·4	+4	47	+8	SSE	6	-	oq	5	1	49	39	cg.or	o.cq	oq.c.op	0.0
	Leith	994·1	50	SE	3	o	993·1	+6	49	+5	SSW	4	S	bc	*	0.1	55	43	opq.c	c.oq	o.cq	*
	Tynemouth ...	998·5	48	S	5	cm	997·9	o	47	+7	S	5	-	o	4	-	50	39	cm	cm	oq	*
	Spurn Head ...	1006·3	45	S	5	c	1004·2	-2	44	+5	S	5	-	c	5	-	47	38	cq.o	c.o	bc	0.0
	Yarmouth ...	1012·0	45	S	5	cq	1009·5	+1	42	+4	S	4	S	bc	2	-	46	36	bc.c	cq	bc.c	0.0
	Clacton-on-Sea	1011·5	43	SSE	4	oq	1009·3	o	42	+2	SSE	4	SW	bc	3	-	44	40	c.oq	oq	oq.c.bc	0.0
	Nottingham ...	1005·2	50	SW	5	o	1003·3	*	49	+7	SW	6	SW	o	*	0.1	52	41	o	op	o.c	0.0
	Bath	1007·4	52	SW	5	o	1004·9	*	49	+2	SSW	3	S	o	*	1	53	46	od	od	o.c.bc	0.0
	London (Kew Obsy.)	1010·2	51	SSW	4	oq	1008·1	o	47	+3	S	4	-	o	*	Trace	52	45	o	o	o.bc.bo	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...	1008.2	15	ENE	2	o	998·9	*	16	+2	-	o	*	S	*	*	16	10				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1017·7	25	SW	6	bc	1021·7	o	21	-6	SSW	6	-	o	4	*	28	14				
	Bodö	1000·7	37	ESE	2	o	1007·5	o	37	o	ENE	7	-	bc	2	-	41	32				
	Christiansund	1004·2	41	SE	1	b	1003·8	o	46	+5	SE	1	-	o	3	1	46	29				
	Skudesnaes ..	1009·9	41	SSE	6	b	1009·1	+2	43	+2	SSE	8	-	o	5	-	43	39				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1011·9	36	W	1	b	1017·9	+2	36	-1	SSE	3	-	[illegible]	2	1	43	34				
	Blaavands Huk	1014·9	37	SW	2	b	1017·3	+1	37	-2	S	2	-	b	3	Trace	41	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015·9	43	S	4	o	1014·3	o	37	-6	SE	4	-	c	2	-	45	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1013·3	47	S	6	o	1010·6	-1	41	-2	S	5	*	bc	4	-	48	41				
	La Hêve	1013·3	42	S	4	c	1011·3	*	43	o	SE	3	*	bc	3	-	48	39				
	Ushant							*					*									
	Brest (St. Mathieu)	1007·7	51	S	7	o	1004·3	o	50	o	SW	6	*	r	7	1	55	50				
	Rochefort (Ile d'Aix)	1014·9	49	SE	4	bc	1011·1	-2	43	-1	SSE	5	*	c	*	-	54	43				
	Biarritz	1016·0	56	SSE	3	b	1011·1	-2	56	+11	SSE	3	*	c	6	-	63	45				
	Paris	1018.6	46	SSW	3	b	1015·4	o	37	-6	SSE	2	S	b	*	-	54	37				
	Belfort							*					*		*							
	Lyons	1025·6	41	ESE	1	b	1020·6	*	43	+9	SSW	1	*	b	*	-	47	34				
	Nice	1027·1	38	-	o	b	1024·7	o	35		E	1	*	b	1	-	52	32				
	Perpignan ..	1023.0	48	SE	1	b	1017·6	o	36	-5	SW	1	-	b	*	-	54	34				
	Sanguinaire ...	1022·6	47	N	3	bc	1022·6	*	43	o	E	2	*	bc	2	-	54	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1011.0	54	SSW	8	o	1003·9	o	50	-4	SSW	5	-	r	6	2	55	48				
	Madrid (8 a.m.) †	1022.4	46	-	o	b	1022.1	-1	32	+2	-	o	-	c	*	-	48	30				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1011·7	*	NW	5	c							*									
	Madeira (Funchal)	1020·8	61	W	4	o	1019·8	+2	59	+2	W	4	-	o	4	10	64	57				

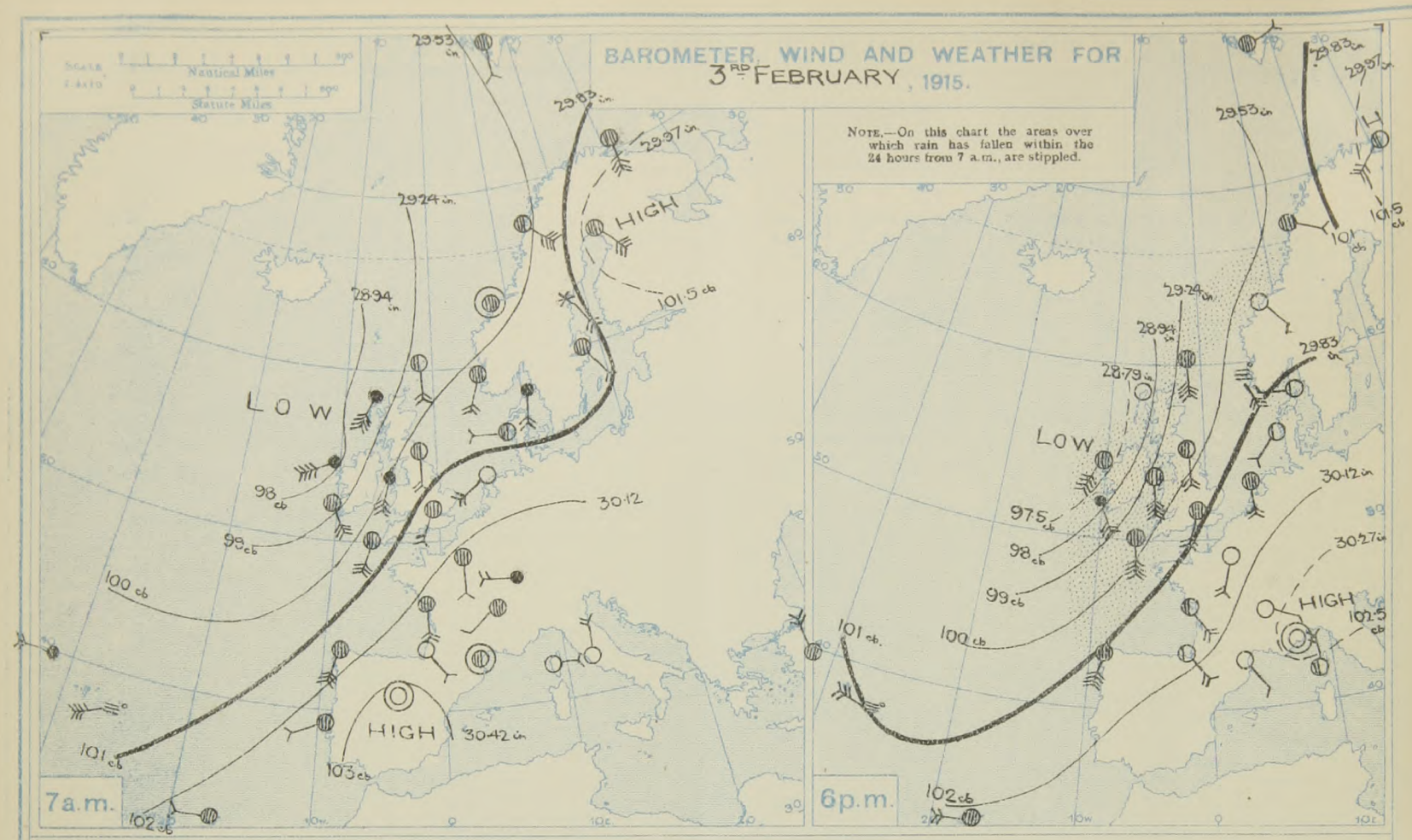
GALES.

Duration and Extreme Force in British Islands.

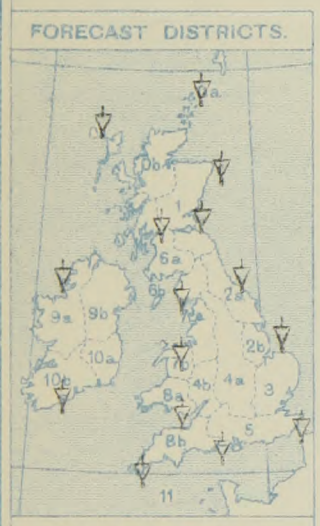
Lerwick
3rd 8pm - 4th 7am. S.8.
Deerness
3rd 6pm - Midt SSE 8
Glasgow
4th 3am. SSW 8
Langholm.
3rd 5pm - Midt S. 9 at 9pm gusts 30mps.
Malin Head
3rd 8am - 4th 7am squalls S.8; S 9 at 8pm
Blacksod Point
3rd 6pm - 4th 3am - 7am; SSW 9 at 3am.
Roche's Point
3rd 7am - 8pm. SSW 10 at 5pm.
Holyhead
3rd 1pm gusts S 22mps; 3pm S.8
Pembroke
3rd 7pm - 2am. S 9
Scilly.
3rd 4pm - 11pm. S.8
Nairn
3rd 11pm - 4th 3am. SW 9 at Midt
Aberdeen
3rd 10am - gust SSE 22mps
" 6pm " SSE 20mps
" Midt " SSE 27mps.

* 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 3RD FEBRUARY, 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 8.5 a.m. & 2.10 p.m.

Western Channel and Bay 11

0 {a b} 1 — Wind Southerly to South-Westerly, decreasing in force; mostly cloudy or overcast, some showers, fair intervals; temperature above the normal.

2 {a b} 3 — Southerly winds, veering towards South-West, fresh to moderate; mostly cloudy or overcast, some showers, fair intervals; temperature above the normal.

4 {a b} 5 — Same as Nos. 0 and 1.

6 {a b} 7 — Southerly to South-Westerly or Westerly winds, fresh to moderate; mostly cloudy or overcast, some showers, fair intervals; temperature above the normal.

8 {a b} 9 — Southerly to South-Westerly or Westerly winds, decreasing in force; mostly cloudy or overcast, some showers, fair intervals; temperature above the normal.

10 {a b} 11 — South-Westerly to Westerly winds, fresh to moderate; sea rather rough; some showers, fair periods

FURTHER OUTLOOK.

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

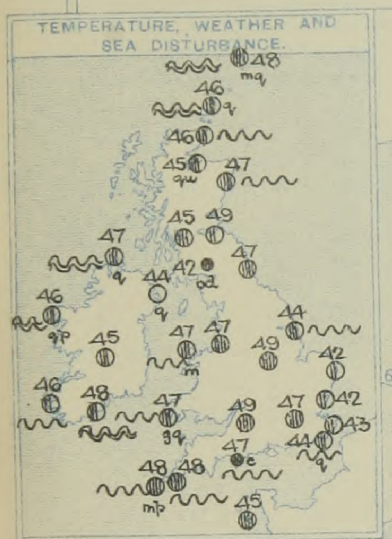
Millibars Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

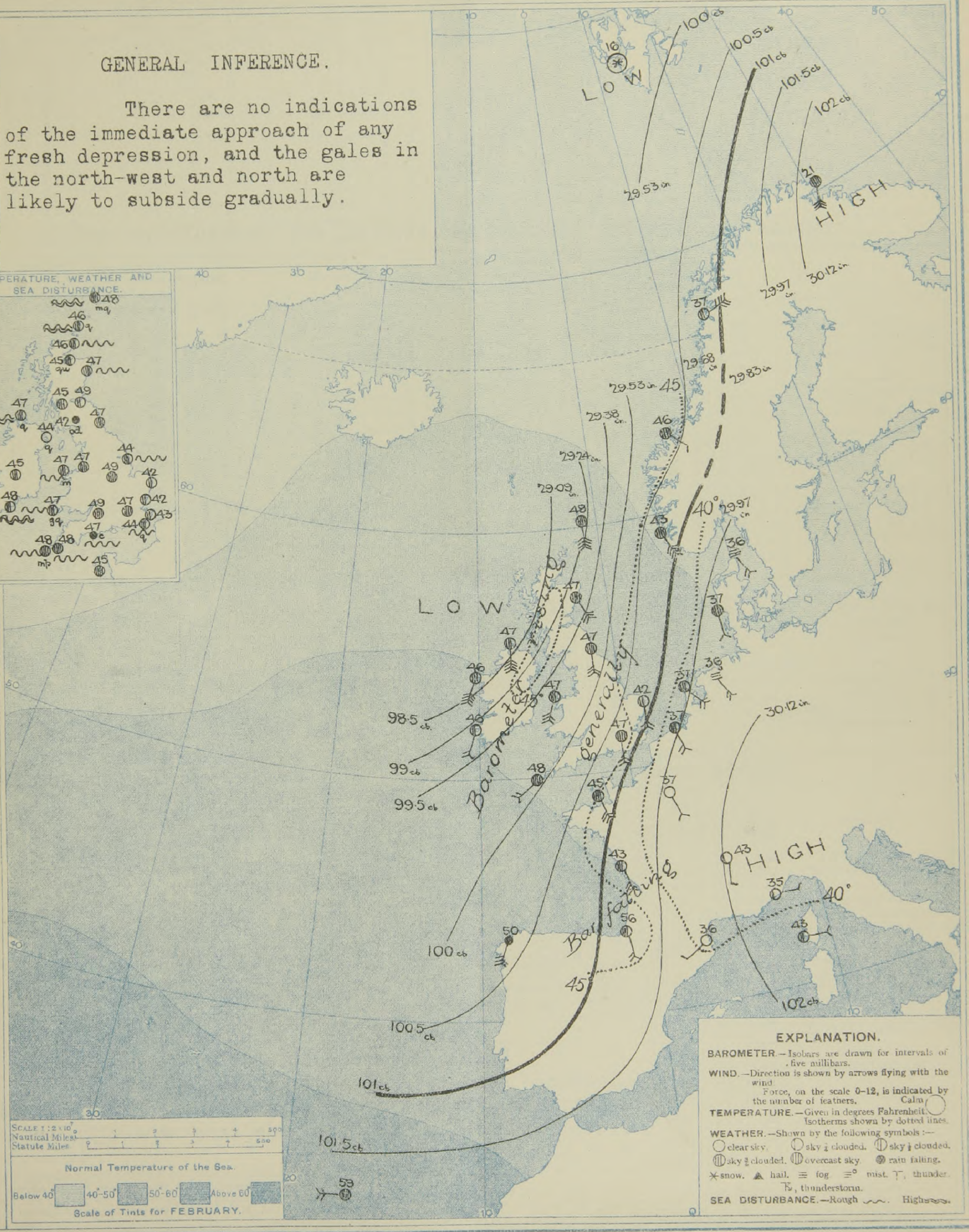
SYNOPTIC CHART FOR 7 a.m., THURSDAY, 4TH FEBRUARY, 1915.

GENERAL INFERENCE.

There are no indications of the immediate approach of any fresh depression, and the gales in the north-west and north are likely to subside gradually.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





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 FEBRUARY.

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. Thursday, 4th February, 1915.

REPORTS FOR YESTERDAY.

3rd February.

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.	Temp. Min.
Ushant	1014.1	52	SW	6	bc	1010.1	*	50	0	SW	6	-	o	7	4	55	46
Lisbon	1028.6	52	ESE	2	c	1024.4	-3	52	+7	WSW	2	-	o	*	-	52	43
Rome	1017.3	37	N	3	b	1020.6	+3	37		N	3	-	b	*	-	46	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	–	47	36	o	cqr	0.0
Scotland.	St. Andrews	3	48	35	*	*	0.0
Eng. N.E.	Harrogate	2	48	35	o	o	0.0
Eng. N.E.	Scarborough	*	48	39	o	o	0.0
Eng. N.E.	Skegness	2	47	37	o	o	0.0
Eng. N.W.	Morecambe	5	49	38	d.o	od	0.1
Eng. N.W.	Blackpool	3	49	39	or.o	or.o	0.0
Eng. N.W.	Southport	4	56	38	or	c.op.o	0.0
Midlands.	Buxton						
Midlands.	Leamington Spa	0.3	51	37	c	c	0.0
Midlands.	Malvern	2	50	37	c	d	0.0
Midlands.	Ross-on-Wye						
Wales.	Rhyl	2	54	40	o	o	0.1
Wales.	Colwyn Bay	5	53	41	od	d.r	0.0
Wales.	Llandudno	2	56	43	o	or	0.9
Wales.	Aberystwyth	2	55	49	r.o.c	c.o	1.0
Wales.	Tenby	1	51	40	o	o	0.0
Wales.	Swansea	2	51	40	od	o	0.0
England. E.	Cromer	2	47	36	o.c	o.c	0.0
England. E.	Lowestoft	2	45	35	o	o.c	0.0
England. E.	Felixstowe	2	44	38	c	c	0.0
England. E.	Walton-on-Naze	2	44	38	o.c	o.c	0.0
England. E.	Southend-on-Sea	1	47	36	o	o	0.0
England. S.E.	Tunbridge Wells	3	50	38	o	o	0.0
England. S.E.	Margate	2	48	38	o	o	0.0
England. S.E.	Ramsgate	3	46	37	c	c	0.0
England. S.E.	Folkestone	5	47	40	o.c	c.bc.c	0.0
England. S.E.	Hastings	3	48	41	or.o	o.bc.b	1.0
England. S.E.	Bexhill-on-Sea	3	46	40	b	bc.o.c.b	4.1
England. S.E.	Eastbourne	3	49	31	o.c	c.bcy	1.1
England. S.E.	Seaford	3	48	42	c	bc	1.9
England. S.E.	Brighton	2	48	43	o.c	c.o	0.5
England. S.E.	Worthing	5	49	41	c	bc	1.8
England. S.E.	Littlehampton						
England. S.E.	Bognor	2	48	42	bc	bc	1.8
England. S.E.	Southsea	2	51	43	.o	o	1.3
England. S.E.	Bournemouth	–	50	40	o	o	0.0
England. S.W.	Weymouth	–	50	43	o.c	c.o	0.0
England. S.W.	Torquay	1	56	42	o	o	0.0
England. S.W.	Paignton						
England. S.W.	Falmouth	–	53	42	oq	oq	0.0
England. S.W.	Penzance	1	53	42	op	c	0.0
England. S.W.	Newquay	1	53	41	opdm	om	0.0
England. S.W.	Ilfracombe	2	54	40	o	o	0.0
England. S.W.	Weston-super-Mare	2	52	40	o	od	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.)	80	83	0.0	50	44	38	–	o	oq	o.b.bc.q
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	83	83	0.0	52	?	32	–	o	o	bc.ue
Camden Sq. (Brit. Rainfall)	82	79	0.0	52	45	39	–	o	o	*
Hampstead (Reservoir)	*	84	0.0	50	39	34	–	c.o	c.b.o	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.)	81	77	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
201 Joules	6.1 Milliwatts.	18 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 ,,				*				
Birmingham ,,	1	50	37	32	r.o	od	d.q	0.0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	1	53	42	36	bc.r.o	od	d.o	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	50	40	33	pq.bc	bc.bq	o.oq	*

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

4th & 5th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.35 / 7.33	12.7	4.41 / 4.43
Greenwich	7.36 / 7.34	12.14	4.52 / 4.54
Wick	8.15 / 8.12	12.26	4.37 / 4.40
Valencia	8.19 / 8.17	12.55	5.31 / 5.33

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 56° at Torquay and Llandudno, and to above 50° in several other localities. Scarcely any bright sunshine was recorded except at Bexhill, and rain was experienced in the west and north.

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. 36

Friday, 5th February 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 ...	1001·6	46	SSW	6	cm	1005·2	0	45	−3	S	7	-	orq	6	9	48	42	mq	om	omrq	*
	Deerness ...	998·6	44	?SSW	6	b	1012·7	*	43	−3	SSE	4	-	c		-	49	43	c.bc	bc.b	b-bc	0·0
	Stornoway ...																					
	Castlebay (Barra Isd.)																					
	Glasgow ...	1002·3	46	SSE	1	o	1005·3	+3	42	−3	SE	1	-	o	*	-	48	41	o.c	o	o.c.o	0·1
	Eskdalemuir ...	1003·9	43	S	3	o	1006·5	+1	38	−4	-	o	-	o	*	2	45	37	od.o	o	o	0·1
	Malin Head ...	997·5	44	S	6	cq	998·7	0	39	−8	SE	5	-	bq	4	-	48	38	bcq	cq	bq	1·2
	Blacksod Point	995·0	43	SSW	5	cqp	994·3	−2	40	−6	SSW	5	SW	cpq	5	10	46	38	bcp	bcp	cm.cpq	*
	Valencia ...	997·6	41	SSE	3	c	990·2	−11	47	+1	SE	6	-	oq	5	6	47	40	cp	cph	cpq	1·3
	Roche's Point	1001·4	46	SW	3	bc	998·1	*	46	−2	S	5	-	o	6	2	48	42	s.c	c.bc	bc.op	*
	Birr Castle ...	999·4	43	S	1	bc	998·4	*	41	−4	S	3	-	c	*	1	49	37	e	bc	op.c	3·3
	Donaghadee ...	1000·0	45	SSW	3	bcm	1002·7	+1	42	−2	SSW	3	-	bc	3	-	47	41	cmq	bcm	cmq.bc	*
	Liverpool (Bidston)	1005·0	44	SSE	1	r	1006·7	+1	42	−5	SSE	2	-	op	2	5	50	41	o	od	op	0·0
	Holyhead ...	1003·0	47	S	5	omq	1004·9	0	42	−5	S	4	-	b	3	Trace	49	42	c.bc.om	c.o.om	o.bc.cb	1·6
	Pembroke (St. Ann's)	1003·7	45	SSW	3	o	1004·6	−2	44	−3	S	3	S	bc	4	0·3	47	44	oqq	oqm	oqm	0·0
	Scilly (St. Mary's)	1003·5	45	SE	4	op	1003·9	−4	47	−1	S	5	S	bc	6	1	49	44	om	omp	op.bc	0·0
	Falmouth ...	1004·5	45	-	0	r	1005·8	−2	45	−3	S	2	-	b	4	8	48	39	r.o	r.d	r.b	0·0
	Jersey (St. Aubin)	1007·5	47	SSE	3	o	1011·0	*	45	o	S	3	S	o	3	-	49	45	o	o	b.o	0·2
	Portland Bill ...	1006·5	47	SSE	4	c	1009·0	+2	47	o	SSW	3	SW	bc	4	1	48	45	r.c	c	c	*
	Dungeness ...	1009·8	46	S	5	ac	1012·0	o	45	+1	SSE	3	S	b	3	-	47	44	bc	bc	bc.b	*
	Dover	1011·0	46	SSW	3	b	1013·4	o	44	+1	S	3	-	b	3	-	47	43	b.bc.c	c.b	b	0·9
	Wick	999·1	45	SSW	4	bc	1003·1	o	43	−3	SSE	4	-	o	4	-	47	43	cmq	c.bcm	ogm	*
	Nairn	999·8	44	W	1	bc	1002·8	*	40	−5	SW	1	-	cq	2	-	49	40	bcq	bcq	q.bc	2·9
	Aberdeen ...	1003·6	45	SSE	4	c	1008·0	+2	43	−4	S	3	-	o	3	1	48	42	cq.c.bc	b.bc.c	c.or	1·1
	Leith	1002·8	48	SE	2	o	1005·7	+2	43	−6	SSW	1	S	c	*	-	52	42	c.bc.c	c.o	o	*
	Tynemouth ...	1004·6	37	SSW	2	omd	1007·3	+2	44	−3	S	2	-	cm	3	2	50	43	om	om	cm	*
	Spurn Head ...	1007·2	45	S	5	c	1010·6	o	42	−2	SSE	4	-	c	4	-	47	40	o	o.c	c.o	0·0
	Yarmouth ...	1011·6	41	S	3	bc	1013·0	+1	41	+1	S	3	-	b	1	-	45	41	c.o	c.bc	bc.b	0·0
	Clacton-on-Sea	1010·2	42	SE	2	c	1011·6	o	42	o	SSE	2	SE	bc	2	-	43	41	bc.c.o	o.c	c.bc	0·0
	Nottingham ...	1007·2	49	S	3	o	1009·0	*	42	−7	SSE	1	-	c	*	-	52	40	o	o.c	o.c.b	0·0
	Bath	1006·7	47	S	1	o	1008·5	*	48	−1	S	2	-	o	*	0·1	51	45	od	o	op	0·0
	London (Kew Obsy.)	1009·5	44	S	1	bcm	1012·8	+1	43	−4	S	2	S	bc	*	-	50	41	o.c.bc.c.o	o.c.bcm	bc.b.bc	0·1
ICELAND, FAEROE, &c.	Spitsbergen ...	1006·0	8	S	1	b	1006·4		25	+9	S	8	*	S	*	*	25	4				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1021·5	19	SSW	9	o	1031·3	+5	23	+2	S	9	-	c	5	*	23	16				
	Bodö	1015·1	34	E	6	o	1023·9	+5	34	−3	E	6	-	bc	2	-	37	34				
	Christiansund	1010·6	48	SE	2	o	1017·3	+1	46	o	E	3	-	o	3	-	50	46				
	Skudesnaes ..	1014·4	45	SE	8	o	1019·4	+1	41	−2	SE	6	-	c	4	-	45	41				
	Færder (X'ianiaFjord)	1024·6	36	SE	4	m	1031·3	+2	34	−2	SE	2	-	o	2	Trace	36	34				
	The Scaw (Skagen)	1022·4	34	ESE	4	f	1028·8	+2	34	−2	SE	4	-	m	3	-	36	34				
	Blaavands Huk	1019·3	37	SE	3	m	1023·4	+2	32	−5	SE	5	-	m	5	-	37	30				
	Haparanda ...	1030·0	−2	S	6	o	1032·9	+3	9	−3	SSE	6	-	o	*	Trace	16	−2				
	Hernösand ...	1029·6	30	S	6	c	1037·1	+2	28	0	S	4	-	c	*	Trace	30	27				
	Stockholm ...	1029·2	28	ESE	2	bc	1035·3	+1	25	−3	E	2	-	o	*	-	28	25				
	Wisby	1029·1	27	ESE	2	o	1034·7	+4	26	−7	ENE	2	-	o	*	-	32	25				
	Karlstad	1027·0	34	SE	2	o	1034·9	+4	28	−4	ESE	2	-	o	*	-	32	27				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015·3	41	SSE	2	b	1016·7	o	36	−1	ESE	2	-	b	1	-	46	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1009·7	46	SSE	5	c	1012·3	o	43	+2	SSE	4	*	b	2	-	50	41				
	La Hève	1009·9	48	SE	3	c	1013·6	*	45	+2	SE	3	*	bc	3	-	50	39				
	Ushant	1018·1	50	SW	6	r	1007·0	*	49		SSW	4	*	b	6	8	52	45				
	Brest (St. Mathieu)	1005·5	48	SE	4	o	1009·6	o	48	−2	SSE	3	*	b	6	-	54	48				
	Rochefort (Ile d'Aix)	1002·7	48	S	4	o	1015·3	+3	47	+4	S	4	*	o	*	-	54	48				
	Biarritz	1009·9	57	SW	3	o	1016·8	+2	48	−8	WSW	3	*	o	6	-	59	46				
	Paris	1013·1	45	ESE	2	b	1015·9	+2	32	−5	SSE	2	-	b	*	-	57	32				
	Belfort	1019·8	35	ENE	4	m	1020·2	*	28		-	o	*	m	*	-	45	27				
	Lyons ... ..†	1017·1	46	S	4	o	1020·8	*	40	−3	SSW	2	*	b	*	-	50	30				
	Nice												*									
	Perpignan ..	1014·0	48	-	0	b	1017·3	+4	36	o	SW	1	-	b	*	-	57	32				
	Sanguinaire ...	1021·7	46	WSW	2	b	1018·6	*	43	o	E	2	*	bc	2	-	52	36				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·4	50	SW	2	o	1013·7	−4	48	−2	SSW	5	-	r	5	18	52	43				
	Madrid (8 a.m.) †	1013·9	46	SE	3	o	1025·1	+3	34	+2	W	2	-	f	*	-	46	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1011·3	*	SW	5	c							*									
	Madeira (Funchal)	1022·3	61	NE	4	o	1025·6	o	54	−5	?	?	N	o	?	-	64	54				

GALES.

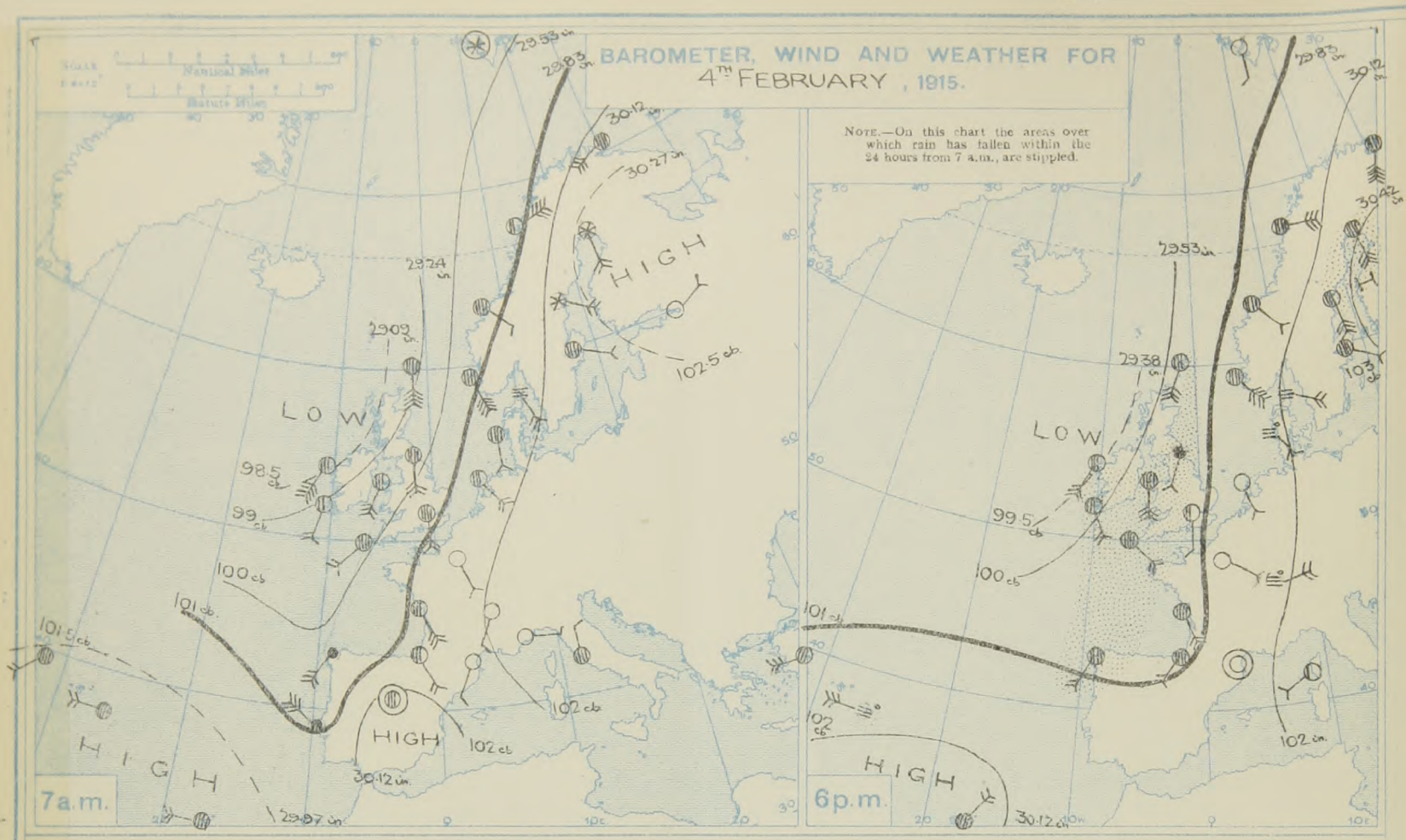
Duration and Extreme Force in British Islands.

Lerwick
4th. Gale ceased noon S.8

Malin Head
4th Gale ceased 3pm. 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 4TH FEBRUARY, 1915.



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 at 8 a.m.

Western Channel and Bay 11

0 {a b} 1 — Wind between South and South-East, increasing in force; cloudy to rainy; temperature continuing above the normal.

2 {a b} 3 4 {a b} 5 — Wind mainly Southerly, light to fresh or strong; mostly fair, then becoming overcast; temperature continuing above the normal.

6 {a b} — Same as Nos. 0 and 1

7 {a b} 8 {a b} 9 {a b} 10 {a b} — Southerly winds, becoming strong or high, a gale in places; cloudy or overcast generally, some rain or passing showers; mild.

11 — Southerly and South-Westerly winds, strong to a gale; sea rough; squally, some showers.

FURTHER OUTLOOK.

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

W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 5TH FEBRUARY, 1915.

GENERAL INFERENCE.

The depression off Ireland will probably move northward and extend eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

Millibars
Inches

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 FEBRUARY.

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. ⊤ thunder.
⊤ᵢ thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ~~.

DAILY WEATHER REPORT. Friday 5th February 1915.

REPORTS FOR YESTERDAY.

4th February.

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.
Færder	1011.9	36	–	0	f	1018.1	+2	36		SSE	2	–	f	1	–	36	34
Haparanda	1021.9	14	S	4	d	1029.6	+3	12		S	4	–	b	*	Trace	18	10
Hernosand	1015.9	30	S	4	s	1022.4	+3	28		SE	4	–	s	8	8	36	27
Stockholm	1013.0	34	SSE	2	o	1022.3	+3	28		SE	2	–	o	2	2	34	28
Wisby	1013.6	34	SW	2	r	1022.7	+5	32		ESE	2	–	o	*	1	36	30
Karlstad	1012.8	34	–	0	r	1019.9	+4	32		–	0	–	o	*	8	36	30
Petrograd	1020.4	12	E	2	o	1028.0	+4	10		ENE	2	–	b	*	–	12	5
Lisbon	1018.9	54	SSW	4	o	1008.0	–8	54		NW	6	–	r	*	3	54	50
Rome	1024.3	41	NE	3	bc	1025.0	0	34		N	1	–	o	*	–	48	32

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	52	45	c.bc	bc	4.4
Scotland	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	48	45	op	op	0.0
Eng. N.E.	Scarborough	*	50	44	o.c	o.c	0.0
Eng. N.E.	Skegness	–	46	43	o	o	0.0
Eng. N.W.	Morecambe	3	48	46	d.o	od	0.0
Eng. N.W.	Blackpool	1	54	47	og.o	o.or	0.0
Eng. N.W.	Southport	2	49	44	o	or	0.0
Midlands	Buxton	2	48	42	bc.c	er.o	0.0
Midlands	Leamington Spa	0.3	51	45	c	c	0.2
Midlands	Malvern	6	49	42	c	c	0.0
Midlands	Ross-on-Wye	4	50	46	orq	orq	0.0
Wales	Rhyl	1	50	44	b	b	0.1
Wales	Colwyn Bay	3	54	46	cg.c	c.o	3.4
Wales	Llandudno	2	54	46	o	o	3.0
Wales	Aberystwyth	2	49	41	r.o.c	o.or	0.0
Wales	Tenby	4	47	?	bc.c.o	bc.or	0.0
Wales	Swansea	7	46	43	r	r	0.0
England, E.	Cromer	–	47	42	o.c	o.c	0.0
England, E.	Lowestoft	–	43	42	o.c	o.c.o	0.0
England, E.	Felixstowe	–	43	41	bc.c	c	0.1
England, E.	Walton-on-Naze	–	43	41	c	c	0.0
England, E.	Southend-on-Sea	–	48	34	c.bc	bc	0.6
England, S.E.	Tunbridge Wells	Trace	48	43	c	bc	0.4
England, S.E.	Margate	–	47	42	c	c	0.2
England, S.E.	Ramsgate	–	45	41	c	c	0.2
England, S.E.	Folkestone	–	47	43	bc.c	c.o.b	1.3
England, S.E.	Hastings	–	47	43	o.c	o.c.b	0.4
England, S.E.	Bexhill-on-Sea	1	46	40	bc	c	2.3
England, S.E.	Eastbourne	–	47	45	o.c	cg	0.0
England, S.E.	Seaford	–	49	45	bc	bc	0.1
England, S.E.	Brighton	–	47	45	o.c	c.bc	0.0
England, S.E.	Worthing	–	48	44	c	c.bc	0.0
England, S.E.	Littlehampton	1	47	38	o	c.bc	0.0
England, S.E.	Bognor	–	47	44	o	c.bc	0.0
England, S.E.	Southsea						
England, S.E.	Bournemouth	0.3	49	45	o	o.c	0.7
England, S.W.	Weymouth	–	48	46	o.c	c.bcm	0.0
England, S.W.	Torquay	4	50	47	or	p.o	0.0
England, S.W.	Paignton	5	50	47	od.o	o	0.0
England, S.W.	Falmouth	5	48	45	r.o	rd	0.0
England, S.W.	Penzance	6	49	45	or	or	0.0
England, S.W.	Newquay	8	47	43	opd	or.opd	0.0
England, S.W.	Ilfracombe	10	49	42	or	r.o	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. 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.)	71	87	2.4	52	40	29	–	b	bc	bc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	79	88	0.4	52	?	36	–	bc	bc	bcm
Camden Sq. (Brit. Rainfall)	75	86	0.2	52	41	35	–	o.c	c.o	*
Hampstead (Reservoir)	*	83	0.3	49	39	31	–	c.o	bc.o	bm
Richmond Park	*	*	0.3							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	73	82	0.1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
395 Joules	11.8 Milliwatts.	27 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.								
Manchester ,,	1	52	46	*	op	op	op	0.0
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	4	51	47	46	or	or.o	o.d	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	53	46	40	bc.c	c.o	9	*

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

5th. & 6th. Feb. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.31 / 7.29	12.7 / 12.7	4.43 / 4.45
Greenwich	7.34 / 7.33	12.14 / 12.14	4.54 / 4.55
Wick	8.12 / 8.10	12.26 / 12.26	4.40 / 4.42
Valencia	8.17 / 8.16	12.55 / 12.55	5.33 / 5.36

NOTES ON YESTERDAY'S WEATHER.

Temperature again rose to 50° or above in various localities, and remained above the normal during the night. Most parts of the Kingdom were very cloudy, but in some parts of Ireland and Wales the sun shone for about 3 hours, and at Banff for 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.

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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. 37.

Saturday, 6th February 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 ...	1010·1	45	S	7	omq	1011·4	0	40	−5	SSE	10	–	aqm	8	6	45	38	omd	omr	omq	*
	Deerness ...	1004·7	44	SE	6	oegq	1004·7	*	41	−2	SE	7	–	ogeq	7	1	45	41	o.c.bc be.bq	bc.c.oc	oeq	1·0
	Stornoway ...																					
	Castlebay (Barra Isd.)																					
	Glasgow ...	999·6	42	E	3	o	997·3	+1	43	+1	E	2	SE	odg	*	0·2	46	41	o.c	c.o	opq.o	1·3
	Eskdalemuir ...	1000·6	43	SE	6	c	998·1	o	41	+3	SE	5	–	or	*	8	45	38	oe.o	og	cr	0·6
	Malin Head ...	986·9	42	SSE	8	cqp	993·2	+4	39	o	SE	2	SE	bc	3	0·2	45	35	cq	cq	bc	1·2
	Blacksod Point	980·8	42	SSE	5	cm	990·1	+8	39	−1	SSE	4	S	bcm	5	6	47	37	cmp	omr	bcm.bc	*
	Valencia ...	981·7	44	S	5	c	991·2	+14	45	−2	NW	4	–	c	4	23	48	40	omr.p	cp	bcp	1·2
	Roche's Point	988·5	45	SW	4	bc	989·3	*	43	−3	N	1	–	o	6	13	47	42	or	r.o.bc	b.or	*
	Birr Castle ...	986·6	42	SE	3	o	990·2	*	40	−1	NE	1	–	c	*	2	46	38	c.or	or.o	c	0·0
	Donaghadee ...	993·0	44	SSE	5	omq	993·6	+1	44	+2	SSE	3	–	opm	2	6	47	41	bcq	c omq	opmq	*
	Liverpool (Bidston)	999·2	47	ESE	4	o	993·7	−3	43	+1	ESE	5	–	r	4	1	49	42	o.c.b	bc.o	or	3·8
	Holyhead ...	993·6	47	SSE	7	oqp	991·4	−1	45	+3	SE	3	–	or	2	4	49	41	b.bc.c	o or.op	ct. bc.c	4·0
	Pembroke (St. Ann's)	1003·7	44	SSW	3	c	988·1	−4	44	o	SE	4	–	osq	5	9	46	44	bc	orq	cg	1·0
	Scilly (St. Mary's)	993·9	45	SSW	4	oq	986·6	−2	46	−1	WSW	3	W	cpq	7	5	49	43	cmp	omrq	bcp.cq	0·5
	Falmouth ...	996·0	44	WSW	4	r	988·7	−4	44	−1	SW	6	–	o	6	17	49	42	c.orq	rq	rhtlq	1·2
	Jersey (St. Aubin)	1006·6	49	S	5	o	998·5	*	44	−1	S	5	–	o	4	4	52	43	of bc.b	c.o	op	3·6
	Portland Bill ...	1002·5	47	SSE	7	cqp	994·4	+1	45	−2	S	5	S	cq	5	6	48	44	bc	c.o	crq	*
	Dungeness ...	1004·7	47	S	3	bc	1000·5	−5	44	−1	SE	7	–	r	6	4	48	43	bc c.o	o.c.bc	bc.c.or	*
	Dover	1010·4	46	SSW	4	b	1001·9	−4	43	−1	S	5	S	or	6	2	48	42	bc.b	bc.b	b.bc.or	5·9
	Wick	1004·3	44	SE	5	m	1002·5	+2	43	o	SE	6	–	o	6	0·2	44	42	og.cm	cm.fom	omr.qd	*
	Nairn	1001·0	44	ESE	3	cmq	999·9	*	46	+6	S	5	–	oqu	4	Trace	48	40	bc	bcgu	ogq	3·0
	Aberdeen ...	1004·8	45	SE	5	o	1004·2	+4	42	−1	SE	7	–	oq	6	0·4	45	42	omp	o.c.o	opq	0·0
	Leith	1001·5	45	SE	3	bc	998·4	+1	48	+2	SE	3	–	c	*	0·1	48	41	c.og	og.c.bc	c.od	*
	Tynemouth ...	1004·6	44	SE	3	bc	1000·7	−2	44	o	SE	6	–	cq	5	–	49	43	bc	bc	oq	*
	Spurn Head ...	1007·3	42	SSE	5	bc	1002·2	−4	43	+1	SE	6	–	oq	5	–	44	40	bc	bc	b	2·8
	Yarmouth ...	1010·4	43	S	3	o	1003·6	+2	43	+2	SE	6	SE	o	4	–	44	39	b	b.o	bc.o	7·3
	Clacton-on-Sea	1009·5	43	SE	3	bc	1001·1	−4	42	o	SE	4	–	og	3	1	45	41	bc.b	b.bc	bc.od	5·0
	Nottingham ...	1005·0	48	SSE	5	o	997·4	*	44	+2	SE	5	SE	r	*	5	49	41	c.o	c.o	o.cp	0·6
	Bath	1003·1	49	S	5	r	994·4	*	44	−4	SSW	3	SW	c	*	16	51	44	o.c.bc.b	or	r.o.c	2·3
	London (Kew Obsy.)	1007·2	47	S	3	b	998·1	−4	45	+2	SSE	5	–	or	*	8	51	42	bc c.o	o.c.bc.b	b.bc.or	2·2
ICELAND, FAEROE, &c.	Spitsbergen ...	1007·4	36	SSE	7	r	1007·4	*	37	+12	S	5	*	o	*	*	37	21				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1035·8	21	SW	6	bc	1036·6	−8	16	−7	SW	5	–	b	4	*	39	16				
	Bodö	1026·9	37	ESE	5	o	1038·3	+3	32	−2	E	4	–	b	2	–	37	30				
	Christiansund	1021·5	46	SE	4	b	1022·4	o	43	−3	E	3	–	c	4	–	48	41				
	Skudesnaes ..	1022·3	38	SSE	5	b	1023·0	o	34	−7	SE	7	–	b	4	–	41	32				
	Færder (X'tania Fjord)	1034·0	28	E	4	o	1034·9	+2	23	−11	ENE	6	–	o	2	–	34	23				
	The Scaw (Skagen)	1030·9	30	E	4	o	1030·6	o	25	−9	E	6	–	o	4	–	36	23				
	Blaavands Huk	1023·9	30	SE	6	o	1021·6	o	28	−4	ESE	6	–	o	5	–	34	27				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015·0	39	ESE	2	b	1011·1	−2	34	−2	E	5	–	o	2	–	43	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1010·7	49	S	4	c	1002·6	−4	43	o	SSE	5	*	r	3	3	52	43				
	La Hève	1005·5	44	SSE	3	bc	1001·7	*	44	−1	SW	5	*	c	3	1	50	41				
	Ushant							*					*									
	Brest (St. Mathieu)	996·1	48	S	8	r	997·7	+1	51	+3	WSW	6	*	c	8	11	55	46				
	Rochefort (Ile d'Aix)	1012·2	47	S	3	c	1009·6	+3	47	o	WSW	5	*	c	*	6	52	45				
	Biarritz	1013·7	52	SSW	2	c	1013·3	+4	49	+1	W	4	*	r	4	15	57	46				
	Paris	1014·3	48	SSE	2	b	1006·7	−1	41	+9	SSE	3	–	r	*	2	54	32				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ..	1017·9	48	E	1	b	1014·0	+7	45	+9	SW	1	–	r	*	–	57	36				
	Sanguinaire ...	1020·2	47	E	2	b	1016·7	*	47	+4	E	2	*	bc	2	–	52	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·8	54	SSW	8	r	1019·3	+7	45	−3	SW	4	–	c	7	3	53	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1019·1	*	SW	4	c							*									
	Madeira (Funchal)	1026·3	61	W	2	o	1028·0	o	54	o	NE	2	N	bc	2	–	63	54				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
5th 8pm – 6th 7am SSE 10.

Malin Head
5th 3pm – between Midt & 7am SSE 9

Blacksod Point
5th 10am – 4pm SSE 8.

Roche's Point
5th 8am – 2pm SSE 9.

Holyhead
5th 4pm & 7.58pm SSE 8, gusts 25mps

Scilly
5th 9am – 2pm SSE 9
6th 5am – 7am WSW 9

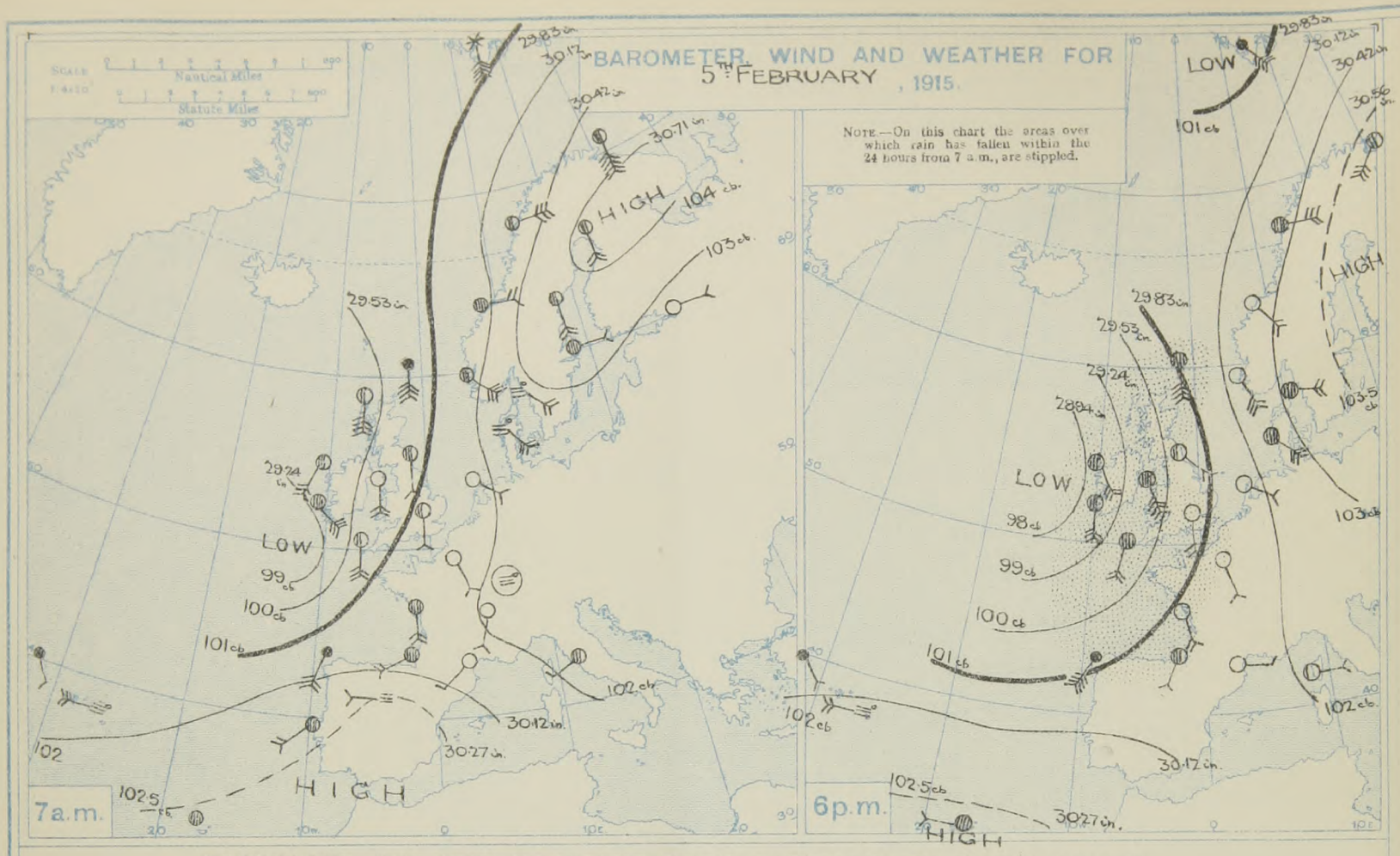
Portland Bill
5th 7pm – Midt S 8

Wick
6th 4am – 7am SE 8.

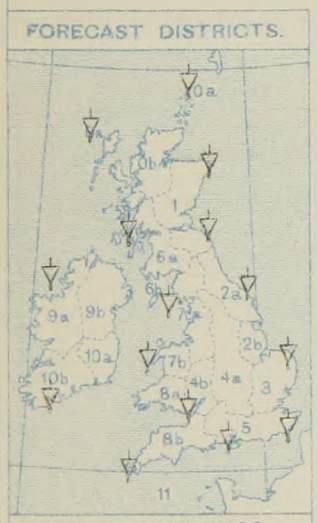
Falmouth
5th 2pm – 4.45pm gale.

* 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 FEBRUARY, 1915.



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.

At 11.10 a.m. to Scotland & 2.15 p.m. to England E. & S.E.

0	a	Wind South-Easterly, a gale or high, then moderating; much cloud, some rain and squalls; moderately mild.
1	b	
2	a	South-Easterly winds, strong or fresh, then moderating; mostly overcast or very cloudy, some rain, fairer intervals; becoming less mild.
3	b	
4	a	
5	b	
6	a	South-Easterly winds, moderate or fresh; much cloud, some rain, then improving; moderate temperature.
7	b	
8	a	Wind between South and West, strong to a gale, then moderating; rainy to fairer; mild.
9	b	Wind moderate or light, direction variable; weather changeable, some rain; moderate temperature.
10	a	South-Westerly or Westerly winds, strong to a gale, then fresh; sea rough; some rain to fair.
11	b	

Western Channel and Bay

FURTHER OUTLOOK.

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

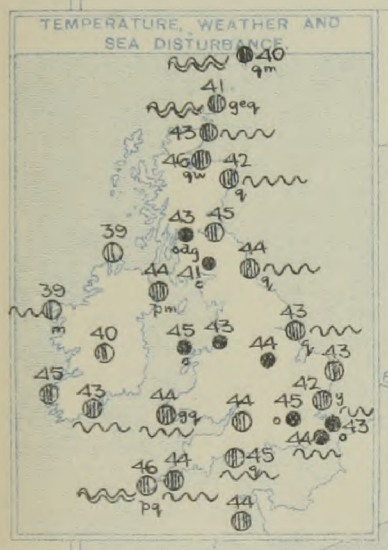
Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 6th FEBRUARY, 1915.

GENERAL INFERENCE.

The depression in the south-west appears likely to decrease in intensity without much change in its position.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



LOW 37 — 29·83 in. — 29·97 in. — 30·12 in. — 30·27 in. — 30·42 in. — 30·56 in. — 101 cb — 101·5 cb — 102 cb — 102·5 cb — 103 cb

HIGH — 32° — 20° — 16

30·42 in. — 30·27 in. — 30·12 in. — 29·97 in. — 29·83 in. — 29·68 in. — 29·53 in. — 29·38 in. — 29·24 in. — 40° — 45° — 50° — 32 — 34 — 25 — 28 — 39 — 41 — 42 — 44 — 45 — 47 — 49

Barometer rising

103·5 cb — 103 cb — 102·5 cb — 102 cb — 101·5 cb — 101 cb — 100·5 cb — 100 cb — 99·5 cb — 99 cb — 98·5 cb — 1025 cb — 1015 cb

LOW 40° — LOW 45° — 50° — 46 — 29·09

Barometer falling

Barometer rising

HIGH — 30·27 in. — 30·12 in. — 29·97 in. — 54

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 FEBRUARY.

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, 6th February 1915.

REPORTS FOR YESTERDAY.

5th February

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.								
Stornoway, (sun 0·7)	995·8	46	S	7	c	999·0	+2	43		S	7	S	bcqs	6	7	47	43
Petrograd	1025·1	1	ENE	2	b	1028·0	+2	10	0	E	2	–	b	*	–	14	-11
Lisbon	1017·5	50	WNW	3	b	1021·9	0	52	−2	SW	3	–	0	*	1	55	46
Rome	1023·9	45	–	0	bc	1022·9	0	34	0	WSW	1	–	c	*	–	50	34
Horta		.	.	.	-	1016·6	+2	59	0	WSW	3	*	0	3	–	61	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	2	48	43	b.bc.c	c	2·5
Scotland.	Banff	2	45	41	bc.o	g	0·7
Scotland.	St. Andrews	3	45	40	*	*	0·6
Eng. N.E.	Harrogate	–	46	39	o.c	o.c	0·0
Eng. N.E.	Scarborough	*	46	40	o.c	o.c	0·6
Eng. N.E.	Skegness	–	48	40	c.bc	bc	7·1
Eng. N.W.	Morecambe	4	50	43	o.bc	b.o	3·0
Eng. N.W.	Blackpool	6	50	42	c.bc.b	bc.c.o	3·4
Eng. N.W.	Southport	6	51	41	bc.c	c.bc.o	3·3
Midlands.	Buxton	–	46	40	o	o	0·1
Midlands.	Leamington Spa	–	49	41	c	c	0·2
Midlands.	Malvern	2	49	40	bc	c	1·0
Midlands.	Ross-on-Wye						
Wales.	Rhyl	1	50	38	bc	c.r	6·0
Wales.	Colwyn Bay	–	51	40	bv	b.bc.c.o	6·0
Wales.	Llandudno	1	52	41	b	b.e	6·4
Wales.	Aberystwyth	4	50	38	r.c.b	c.or	5·5
Wales.	Tenby	7	48	42	bc.o	bc.or	3·4
Wales.	Swansea	7	47	39	b	bc.r	4·1
Eng. E.	Cromer	0·3	53	38	b	b.bc.o	7·6
Eng. E.	Lowestoft	–	47	41	b	b	7·5
Eng. E.	Felixstowe	–	47	40	bc	bc	5·8
Eng. E.	Walton-on-Naze	–	45	41	b	b.bc.b	6·0
Eng. E.	Southend-on-Sea	–	49	41	b	b.bc.c.b	4·5
England. S.E.	Tunbridge Wells	–	49	41	bc	bc	3·0
England. S.E.	Margate	–	51	42	b	b	7·0
England. S.E.	Ramsgate	–	48	42	bc	bc	6·0
England. S.E.	Folkestone	–	47	42	bc.c.o	bc	5·4
England. S.E.	Hastings	–	49	43	b	bc.b	5·3
England. S.E.	Bexhill-on-Sea	–	48	41	b	b	6·7
England. S.E.	Eastbourne	–	49	42	b	beg.bc	6·0
England. S.E.	Seaford	–	48	44	b	bc	5·3
England. S.E.	Brighton	–	49	44	bc.c	c.bc.b	4·8
England. S.E.	Worthing	–	50	44	bc	bc.b	4·4
England. S.E.	Littlehampton	–	48	39	b.bc	c.bc.c.b	3·7
England. S.E.	Bognor	–	47	45	bc	bc.b	2·8
England. S.E.	Southsea	–	50	44	o.c.b	bc	3·6
England. S.E.	Bournemouth	–	48	44	o	o.c	0·8
England. S.W.	Weymouth	–	50	45	bc	bc.c	3·4
England. S.W.	Torquay	1	50	45	b	bc.cor	4·7
England. S.W.	Paignton	6	51	38	bc	or	4·5
England. S.W.	Falmouth	14	49	39	c.org	rq	1·2
England. S.W.	Penzance	9	49	43	bc.o	or	1·9
England. S.W.	Newquay	15	48	38	bc.o	or	1·7
England. S.W.	Ilfracombe	6	50	39	b.bc	bc.or	4·1
England. S.W.	Weston-super-Mare	0·3	51	42	b	b.bc.c	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.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	91	93	4·8	52	43	38	8	b	bc.b	b.ar
City (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	92	2·4	52	?	39	11	m.bc	m.bcd	b.w
Camden Sq. (Brit. Rainfall)	88	91	1·0	51	44	40	8	c.bc	c.o	*
Hampstead (Reservoir)	*	93	1·8	50	38	36	9	bc.o	or	o
Richmond Park	*	*	3·2							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	88	2·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
420 Joules	12·5 Milliwatts.	35 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.	8	47	40	37	o.bc	c.pq	rq	*
Darwen to 9 p.m.	4	46	41	40	or	or.b	c.o.ur	1·0
Manchester ,,	1	51	45	*	op	o.c.bc	bc.or	3·0
Birmingham ,,	2	48	42	38	c	c	c.o.r	1·0
Oxford to 9 p.m.	*	51	45	41	c.o.c	c.o	o	*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	52	44	35	b.bc	bc.c.o	a.bc.b	*

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

Sat. 7th Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·23 / 7·27	12·7 / 12·7	4·45 / 4·47
Greenwich	7·33 / 7·31	12·14 / 12·14	4·55 / 4·57
Wick	8·10 / 8·8	12·26 / 12·26	4·42 / 4·44
Valencia	8·15 / 8·13	12·55 / 12·55	5·36 / 5·37

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° in several southern and western localities, and much bright sunshine for the time of year was recorded in most parts of England. Rain was experienced except at some eastern 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. 38. {Sunday 17th February 1918.

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 ...	1016·9	36	SSE	8	omq	1017·0	-1	35	-5	S	8	-	oqsp	7	1	40	34	omq	omq	omqsp	*
	Deerness ...	1011·5	38	SE	8	oeq	1010·8	*	37	-4	SSE	7	-	ogq	8	-	45	36	oeq	oeq	oq	0·0
	Stornoway ...	1003·4	43	SE	6	oqp	1002·0	-4	40	-5	SE	7	SE	cq	6	5	45	40	oqp	oqp	o.eq	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1005·0	39	E	2	r	1006·0	-5	37	-6	ESE	4	-	o	*	4	43	36	od	od	od.o	0·0
	Eskdalemuir ...	1005·0	37	E	4	o	1008·3	-1	35	-6	SE	4	-	o	*	8	42	34	or	or.o	o	0·0
	Malin Head ...	1002·5	44	SE	2	bc	997·0	-6	40	+1	S	6	S	cmq	4	-	49	37	bc	bc	cmq	3·3
	Blacksod Point	1003·2	44	SW	3	bcm	988·5	-12	42	+3	SSE	7	S	omp	5	3	46	39	cm	bc	bc.om	*
	Valencia ...	1006·4	47	W	3	bc	992·2	-6	51	+6	SSE	4	-	r	5	13	51	42	cp	cp	omr	1·3
	Roche's Point	1005·3	46	W	3	c	998·1	*	48	+5	SW	5	-	r	5	14	49	42	op.c	cp	b.or	*
	Birr Castle ...	1004·1	40	WSW	1	bc	996·8	*	42	+2	SE	6	-	o	*	2	48	35	bc	bc	c.oqp	5·7
	Donaghadee ...	1000·7	44	ESE	3	omr	1002·0	-3	44	0	SSE	4	-	ogm	3	12	44	42	omr	omr	ogmp	*
	Liverpool (Bidston)	1002·4	42	WSW	1	o	1007·4	0	41	-2	ESE	3	E	o	3	1	48	40	om	bc.o	o	2·2
	Holyhead ...	1001·6	45	NW	2	cm	1004·4	-3	44	-1	S	5	-	ogpd	4	3	47	40	cp.or.c	c.op cm	op.b.bc	c·0
	Pembroke (St. Ann's)	1004·7	45	NW	3	bc	1005·2	-4	43	-1	SSE	5	-	sdmq	5	1	47	43	ogq	c	bc	2·6
	Scilly (St. Mary's)	1006·7	47	WNW	7	omqp	1005·3	-4	50	+4	SSW	5	-	omd	6	4	50	44	cq	cmqp	cp.omd	3·7
	Falmouth ...	1006·1	47	WNW	5	c	1006·6	-6	46	+2	SSE	3	-	od	5	6	48	44	rq.bcq	cq.bcq	bc.od.	2·7
	Jersey (St. Anbin)	1003·6	49	W	6	oq	1012·9	*	45	+1	SSW	4	-	md	4	5	51	44	bc.cqp	cqp.o	p.bc.md	3·9
	Portland Bill ...	1001·0	46	NW	5	o	1010·0	+2	46	+1	SW	1	-	o	4	1	48	44	cr	o	o.bc.bo	*
	Dungeness ...	999·1	46	SSW	5	c	1009·7	+5	43	-1	NW	3	-	om	3	6	48	43	o.bcp	p.bc	bcp.om	*
	Dover	1001·5	45	SSW	3	o	1011·1?	+4	41	-2	NW	3	-	f	2	4	48	40	b.bc.c.o	or.bc.o	or.cf	1·5
	Wick	1009·8	39	SE	6	o	1010·6	-1	37	-6	SE	6	-	o	6	1	43	36	omrq	omrqp	oqrhp	*
	Nairn	1007·9	39	ESE	3	cgq	1007·3	*	38	-8	SE	3	-	om	3	-	46	35	ceq	cm	cgq	0·3
	Aberdeen ...	1010·6	38	SE	7	r	1012·3	0	36	-6	SSE	7	-	oqp	6	2	42	35	oqp	oqrsp	oqrsp	0·0
	Leith	1005·9	40	ESE	3	o	1008·2	0	38	-7	ESE	3	SE	c	*	2	46	37	or	or.o	o	*
	Tynemouth ...	1005·7	38	SE	6	omrq	1010·1	+1	37	-7	S	4	-	omqd	5	8	44	35	omrq	omrq	omqr	*
	Spurn Head ...	1003·3	42	SE	6	r	1011·4	+1	38	-5	ESE	5	-	o	6	3	43	35	orq	orq	orq	0·0
	Yarmouth ...	1003·0	41	S	4	omr	1011·3	+4	36	-7	E	4	-	om	2	9	43	35	omr	omr	om	0·0
	Clacton-on Sea	999·9	43	SE	4	c	1009·6	+5	40	-2	N	2	-	ogm	2	2	44	39	ogd.bc	bc.cp	op.ogm	1·8
	Nottingham ...	1001·6	44	E	3	r	1009·9	*	39	-5	E	1	E	o	*	10	47	38	r.o.c	c.or	r.o	0·8
	Bath	1000·9	45	N	1	c	1010·5	*	36	-8	E	1	-	o	*	1	49	33	c.or	o.c	c.bc.bom	0·3
	London (Kew Obsy.)	999·1	45	E	2	om	1010·6	+3	43	-2	-	0	-	o	*	2	48	42	or.o.c.or.o	op.ep.om	ombc.bmom	1·5
ICELAND, FAEROE, &c.	Spitsbergen ...	1015·0	34	S	2	r	1017·7	*	34	-3	S	2	*	r	*	*	37	32				
	Isafjord ...												*		2	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1038·7	16	SW	9	c	1039·8	+2	14	-2	SW	5	-	b	4	*	17	14				
	Bodö	1033·5	27	E	4	b	1034·1	0	23	-9	ESE	9	-	b	3	-	32	14				
	Christiansund	1026·1	37	SE	4	b	1025·9	-2	28	-15	SE	3	-	b	4	-	43	27				
	Skudesnaes ..	1026·7	28	ESE	8	b	1025·6	0	27	-7	E	6	-	b	2	-	34	27				
	Færder (Xtiania Fjord)	1034·6	25	NE	6	o	1033·2	0	21	-2	NE	6	-	o	2	Trace	25	19				
	The Scaw (Skagen)	1030·3	28	E	6	o	1027·3	0	25	0	E	6	-	o	5	-	28	18				
	Blaavands Huk	1021·6	27	ESE	7	o	1020·6	0	28	0	ESE	4	-	m	5	Trace	30	27				
	Haparanda ...	1050·4	-2	SSE	2	b.	1051·8	+2	-6	-6	SE	2	-	b	*	-	1	-4				
	Hernösand ...	1044·2	19	E	4	o	1041·3	0	20	-1	NE	2	-	s	*	3	23	16				
	Stockholm ...	1036·6	20	ENE	4	o	1034·4	0	21	0	SE	6	-	s	*	1	23	18				
	Wisby	1033·7	18	ENE	4	s	1031·3	-2	21	-2	E	4	-	s	*	1	23	18				
	Karlstad	1037·2	21	NE	2	s	1034·4	-1	16	-3	ENE	2	-	s	*	Trace	23	14				
	Petrograd (5 a.m. G.M.T.)	1051·0	-6	E	2	b	1053·1	0	-8		ESE	3	-	b	*	-	14	-9				
FRANCE, &c.	The Helder ...	1009·6	28	ENE	5	s	1011·9	+2	27	-7	ENE	5	-	o	3	2	34	25				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1000·3	46	SSW	6	b	1009·7	+5	43	0	NW	3	*	o	3	9	50	41				
	La Hève	1002·3	46	WSW	5	o	1013·0	*	43	-1	SW	4	*	o	5	1	50	39				
	Ushant	1006·1	50	NW	6	c	1010·1	*	50		SW	6	*	f	7	3	52	43				
	Brest (St. Mathieu)	1011·0	50	WNW	7	o	1011·3	-3	50	-1	SW	4	*	f	4	2	50	46				
	Rochefort (Ile d'Aix)	1016·5	49	W	5	o	1018·9	0	46	-1	SW	3	*	f	*	1	52	46				
	Biarritz												*									
	Paris	1007·1	46	SSW	4	b	1013·5	+4	43	+2	SW	3	-	o	*	Trace	50	41				
	Belfort	1015·7	37	-	0	m	1017·9	*	34		WSW	6	*	9	*	4	41	31				
	Lyons	1017·7	42	SSW	1	c	1021·2	*	41		WSW	1	*	r	*	4	47	36				
	Nice	1017·5	42	E	3	o	1021·0	+2	39		E	2	*	c	4	13	45	37				
	Perpignan ..	1017·7	50	NW	4	b	1023·0	0	50	+5	W	2	NW	o	*	Trace	52	45				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·7	52	WSW	4	o	1021·9	-2	54	+9	S	6	-	o	5	?	54	45				
	Madrid (8 a.m.)	1022·0	48	WNW	3	c	1030·1	+2	34		-	0	-	b	*	-	50	34				
	Lisbon (9 a.m.)	1026·7	54	N	2	bc	1027·5	-1	46	-4	-	0	-	b	6	-	57	46				
	Gibraltar							*					*									
	Rome	1022·1	46	-	0	o	1022·4	0	48	+3	SE	1	-	o	*	3	54	45				
	Azores (Horta, 8 a.m.)	1019·1	*	SW	6	o	1025·9	+4	53	-7	N	4	*	bc	4	2	61	52				
	Madeira (Funchal)	1028·0	61	E	2	o	1028·8	+1	54	0	E	2	N	bc	2	-	63	54				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
6th 7a.m - 7th 7a.m SE 8.

Scilly
6th 8a.m - 3p.m WNW 8
Ex. WNW 9 at 2p.m.

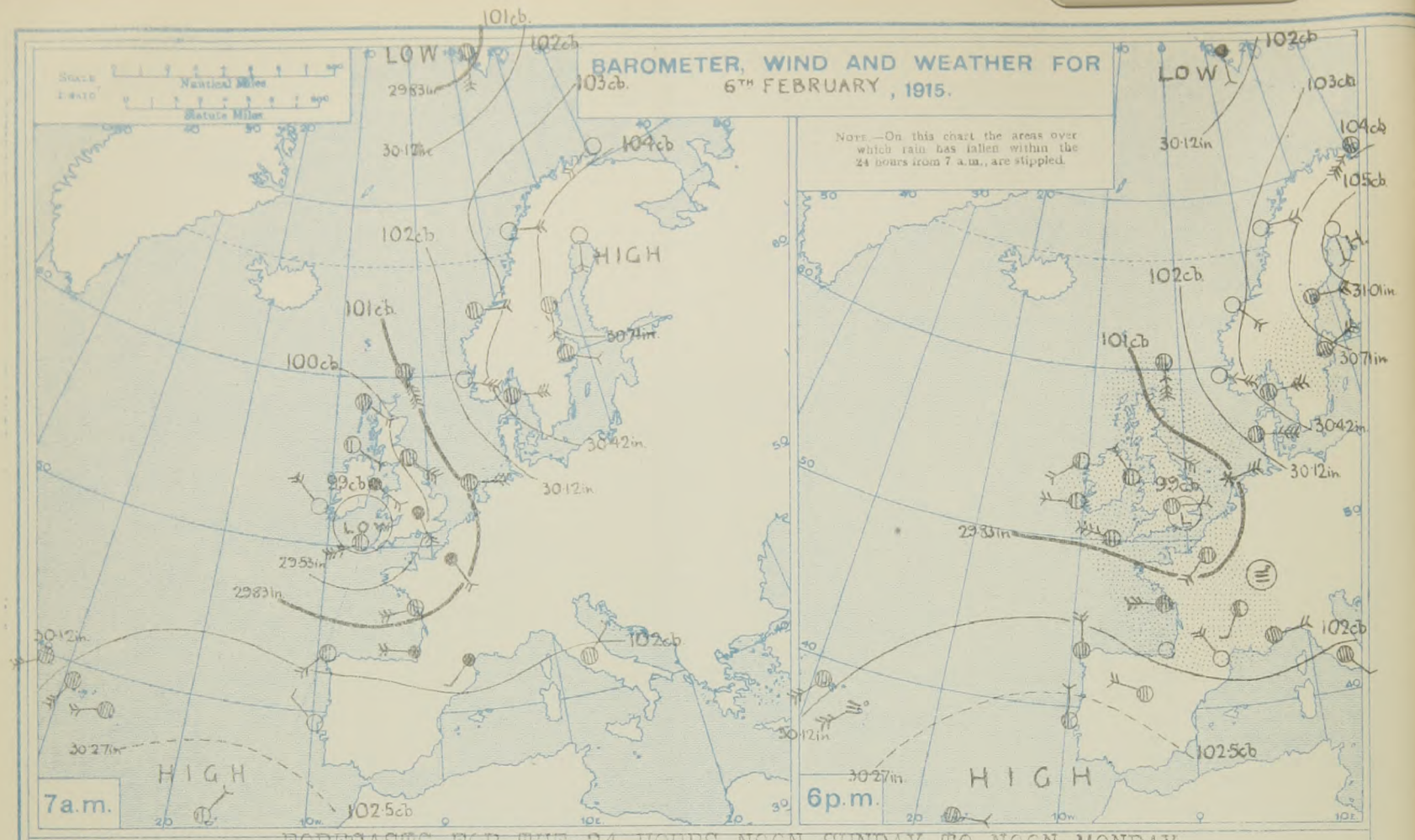
Wick
6th 7a.m - 7a.m SE 8 in Squalls.

Aberdeen
6th 8a.m - 5p.m SE 8
Gusts SE 28 mps & 21 mps.

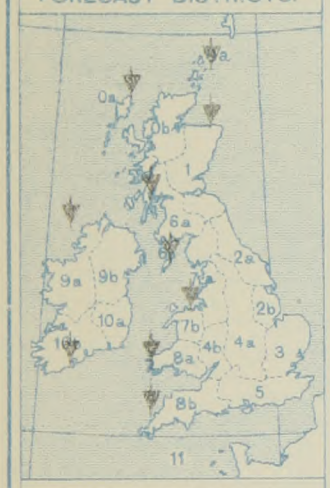
Deerness
6th 8a.m - 10a.m SE 9
6th 1p.m - 6p.m SE 9.

* 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 FEBRUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.



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 8·15a.m. today.

Western Channel and Bay

0 a, b / 1 — Southerly and South-Easterly winds, strong to a strong gale; some showers of rain, sleet or snow; rather low temperature.

2 a, b / 3 — Wind mainly between East and South-East, light to fresh; some rain; mist locally; moderately cold.

4 a, b / 5 — Wind mainly Southerly, light to fresh; much cloud, some rain; moderately mild.

6 a, b — Same as Nos. 0 and 1.

7 a, b / 8 a, b — Southerly winds, fresh or strong, a gale in places; much cloud, occasional rain; mild.

9 a, b / 10 a, b

11 — Southerly and South-Westerly winds, fresh or strong to a gale; sea rough; rain at times.

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., SUNDAY, 7TH FEBRUARY, 1915.

GENERAL INFERENCE.

The depression on the Atlantic will move in a Northerly direction at present, and extend eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

HIGH

Steady

Bar.

LOW

Barometer falling

Barometer

LOW

HIGH

102cb 102·5cb 103cb 103·5cb 104cb 104·5cb 105cb

101·5cb 101cb 100·5cb 100cb 99·5cb 99cb

30·12in 30·10in 30·08in 30·07in 30·05in 30·04in 30·02in 29·97in 29·83in 29·68in 29·53in 29·38in 29·24in

Inches. 31 30 29

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

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

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.
⊤ᵥ thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ~~~

DAILY WEATHER REPORT. Sunday, February 7th 1915.

REPORTS FOR YESTERDAY.

Saturday Feb. 6th, 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	1045.2	5	SSE	4	b	1049.5	+3	0	-9	S	4	-	b	*	-	9	0
Hernösand	1042.1	28	S	4	c	1043.7	0	21	-7	S	4	-	o	*	-	28	19
Stockholm	1035.3	21	ESE	2	o	1038.3	0	21	-4	ESE	2	-	o	*	Trace	25	18
Wisby	1034.0	19	NE	4	s	1035.8	0	23	-2	ESE	4	-	o	*	1	27	18
Karlstad	1036.6	25	E	2	o	1038.0	+1	19	-9	NE	4	-	s	*	Trace	28	18
Lisbon	1021.0	54	WSW	S	r	1023.1	+3	50	-2	WNW	1	-	b	3	8	55	51
Rome	1023.3	46	W	1	o	1021.6	+1	45	+11	NE	1	-	o	*	2	52	34
Horta						1020.2	0	60	+1	SSW	5	*	o	2	-	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	1	36	36	dg	r	0.0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	13	42	39	or	or	0.0
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	3	43	41	or	o.bc.o	0.7
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	2	47	43	og	c	1.5
Eng. N.W.	Southport	3	49	41	o c	c.bc.o	1.7
Midlands.	Buxton	18	44	39	bc	bcv	0.7
Midlands.	Leamington Spa	7	48	43	c.bc	c d.r	2.8
Midlands.	Malvern						
Midlands.	Ross-on-Wye	19	46	43	bc.od.p	od	1.0
Wales.	Rhyl						
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	7	49	43	or.c	c.bc	3.0
Wales.	Tenby	3	47	41	bc.o	bc	0.7
Wales.	Swansea	8	48	43	r.p.u	bc	1.0
England. E.	Cromer	4	43	41	r	or.or	0.0
England. E.	Lowestoft						
England. E.	Felixstowe	2	44	41	or	bcw	1.2
England. E.	Walton-on-Naze	2	44	40	or.c.bc	c.o.p.o.c	1.5
England. E.	Southend-on-Sea	2	48	42	bc.b.bc	bc	2.1
England. S.E.	Tunbridge Wells	12	48	43	c.bc.op	o.bc.or	1.7
England. S.E.	Margate	3	49	42	c.bc.b	cp	1.3
England. S.E.	Ramsgate	3	46	41	r.bc	bcp	2.2
England. S.E.	Folkestone	4	47	41	b.bc	bc.or.c	2.7
England. S.E.	Hastings	5	48	43	or	b.bc	2.4
England. S.E.	Bexhill-on-Sea	3	47	40	or.c	c.or	2.1
England. S.E.	Eastbourne	9	48	44	b.o	bcpq	2.2
England. S.E.	Seaford	2	47	42	bc	r	2.4
England. S.E.	Brighton	18	47	45	c.or	r.or	1.2
England. S.E.	Worthing	13	48	44	o	r	1.2
England. S.E.	Littlehampton	7	48	40	bc.c	c.bc.or	0.5
England. S.E.	Bognor	11	47	44	bcp	op	1.1
England. S.E.	Southsea	9	49	43	orq	bc	1.7
England. S.E.	Bournemouth	18	48	42	or	c	0.5
England. S.W.	Weymouth	3	49	44	o.bcp	c.bc.c	0.6
England. S.W.	Torquay	20	50	41	or	p.bc.c.o	0.7
England. S.W.	Paignton	23	49	40	c	c	0.0
England. S.W.	Falmouth	11	48	42	cq.bcq	cq.bcq	2.7
England. S.W.	Penzance	9	50	44	bcp	bc	2.9
England. S.W.	Newquay	11	47	40	ocpq	o	0.0
England. S.W.	Ilfracombe	8	47	40	o	cp.c	0.1
England. S.W.	Weston-super-Mare						

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.)	82	94	2.2	49	42	38	1	b	c.or	or
City (Bunhill Row)	*	*	0.7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	88	91	2.0	49	3	38	2	od.c	o	u.r.oem
Camden Sq. (Brit. Rainfall)	85	94	0.9	48	42	36	1	o,c,o	o	*
Hampstead (Reservoir)	*	93	1.2	46	37	31	-	bc.o	bc	bc.om
Richmond Park	*	*	2.0							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.)	78	87	1.7

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
346 Joules	10.3 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.	4	48	40	37	r.bc	bc	bc	*
Darwen to 9 p.m.	24	44	39	39	or	or	or.b	0.7
Manchester ,,	2	50	44	*	o	or.o	o.bc.o	2.0
Birmingham ,,	16	45	42	40	*	r.c	o	0.9
Oxford to 9 p.m.	*	48	43	40	c.or.bc	bc.o.or	or.o.c	*
Teignmouth to 9pm.	17	49	42	38	or.cr	or.c	bc	1.6
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	10	49	44	41	r.o	c.bc	od.c.bc	*

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

Feb. 7th & 8th, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.27	12.7	4.47
	7.26	12.7	4.48
Greenwich	7.31	12.14	4.57
	7.30	12.14	4.58
Wick	8.8	12.26	4.44
	8.6	12.26	4.46
Valencia	8.13	12.35	5.37
	8.12	12.35	5.38

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° generally. Rain was experienced in these islands – 12 millimetres or more at some western stations – and little bright sunshine was recorded except in some Irish localities and at a few places in the west and southwest 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.

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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. 39.

Monday, 8th February, 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 ...	1008·1	35	SE	8	oqsp.	9964	-5	35	0	SSE	10	-	oqsp	8	5	37	33	oqsp.	oqsp.	oqsp	*
	Deerness ...	1000·3	36	SE	8	oqsp	989·8	*	37	0	SE	6	-	qr	7	16	39	34	oq.	oqq	r	0·6
	Stornoway ...	984·9	40	SE	7	orq.	989·1	+1	37	-3	W	2	-	0	2	10	42	37	c.orq	orq	od.p	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	992·7	38	ESE	4	od	993·5	+1	36	-1	WSW	3	-	0	*	11	40	34	orsp	ohrsp	od.dp.o	0·0
	Eskdalemuir ...	993·9	37	SE	6	or	994·9	+2	33	-2	SW	5	-	0	*	13	38	33	c.ors.	ors.or	or.o	0·0
	Malin Head ...	988·4	42	SW	4	cm	993·1	+1	35	-5	SW	4	SW	bcqp	5	11	42	34	cmqr	cm	bcq	0·0
	Blacksod Point	991·0	40	WSW	6	cmp	995·2	0	39	-3	WSW	4	W	dpm	4	3	46	35	cmp	bcp	bcp.dp	*
	Valencia ...	998·6	43	SW	6	bc	1000·0	0	35	-16	SW	4	-	bp	5	8	52	34	cmp	bcph	c.bp	0·8
	Roche's Point	999·6	40	NW	4	b	1001·9	*	38	-10	WNW	4	W	b	4	4	49	35	r	r.chp	b.bc.b	*
	Birr Castle ...	995·6	39	W	4	c	998·7	*	32	-10	WSW	1	-	0	*	11	50	32	or	or.c	os	0·1
	Donaghadee ...	991·4	41	W	2	ogmp	995·5	+1	33	-11	W	4	-	bcc	3	12	45	32			o.bcmt	*
	Liverpool (Bidston)	993·5	44	SE	4	r	1000·0	+2	36	-5	SW	3	-	b	3	6	45	35	or	or	br	0·0
	Holyhead ...	994·2	43	NW	5	omr	999·0	+1	38	-6	W	5	-	bc	4	9	48	38	omr	omr	op.b.bc	0·0
	Pembroke (St. Ann's)	997·6	44	W	5	c	1003·8	0	40	-3	WSW	6	W	cqsp	6	9	48	40	cqdm	qfd	cqp	0·0
	Scilly (St. Mary's)	1001·3	44	WNW	7	omr	1006·7	0	41	-9	WSW	7	W	cqp	7	6	51	39	omr	omr	bc cqp	0·0
	Falmouth ...	1000·3	44	WNW	3	r	1007·4	0	41	-5	SW	4	-	bc	5	14	51	38	dmq	rq.od	rq.bcq	0·0
	Jersey (St. Aubin)	1005·6	50	S	3	omdp	1013·1	*	42	-3	SW	5	SW	b	4	7	51	42	omd	oc.dmp	omqr.b	0·0
	Portland Bill ...	1000·2	47	SSW	6	or	1007·4	+3	43	-3	WSW	6	SW	bc	5	9	48	42	c.o	or	c.or	*
	Dungeness ...	1006·1	44	SSW	5	orq	1008·3	+4	43	0	SW	6	SW	bcq	5	6	48	40	om.c.oz	orq	oqr.bc	*
	Dover	1007·0	44	S	5	or	1009·2	+2	40	-1	SW	5	SW	b	5	5	47	38	f.c.bc.c	c.op	oqr.b	0·2
	Wick	999·4	37	SE	7	r	989·6	-4	38	+1	SSE	5	-	r	6	13	39	35	omq.ph	omq.phr	omqr	*
	Nairn	994·3	39	ESE	7	r	989·5	*	36	-2	-	0	-	or	1	6	40	35	cqq	cqp	qw.or	0·0
	Aberdeen ...	1000·2	37	SE	8	r	997·8	-1	37	+1	W	4	-	r	6	18	39	35	oq.rsp	orq.	oqr	0·0
	Leith	995·9	38	ESE	4	r	992·0	0	38	0	W	2	-	0	*	4	40	37	c.or	or	orq	*
	Tynemouth ...	999·0	35	SSE	6	omrq	994·7	+1	39	+2	WSW	3	W	bcm	5	12	44	37	omq.	omqd	omqr	*
	Spurn Head ...	1003·4	38	ESE	7	o	1000·9	+4	39	+1	WSW	6	-	bc	6	8	44	36	o	oqr	oqr	0·0
	Yarmouth ...	1006·4	41	SE	4	omr	1004·8	+6	38	+2	SW	3	-	b	2	5	46	35	om	om.	omrs	0·0
	Clacton-on-Sea	1006·0	43	SE	3	ogm.	1005·8	+6	39	-1	SSW	3	-	b	3	5	47	39	ogm.o	ogm.o	o.c.bc.b	0·0
	Nottingham ...	998·7	44	SE	5	r	1001·8	*	36	-4	SW	4	SW	b	*	8	48	35	omr	or	or	0·0
	Bath	1000·3	52	SW	2	r	1006·2	*	37	+1	SW	4	W	bc	*	9	52	35	omd	dr	pdr.bc	0·0
	London (Kew Obsy.)	1002·5	46	S	4	orm	1007·1	+3	39	-4	SW	4	W	b	*	5	49	38	om.er.am	om.omd	omqr.b.b	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1019·0	36	S	2	r	1018·1	*	34	0	S	1	*	0	*	*	36	32				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1039·7	12	SW	9	c	1035·4	-2	12	-2	SW	9	-	b	5	*	14	10				
	Bodö	1031·8	18	E	7	b	1023·3	-5	18	-5	E	8	-	bc	3	-	23	16				
	Christiansund	1021·3	30	E	2	b	1010·1	-5	27	-1	E	2	-	b	3	-	32	27				
	Skudesnaes ..	1019·8	27	ESE	7	b	1004·8	-4	30	+3	E	6	-	0	2	-	30	27				
	Færder (X'tania Fjord)	1025·7	23	NE	6	o	1017·9	-4	20	-1	ENE	5	-	c	2	Trace	23	19				
	The Scaw (Skagen)	1002·9	27	E	5	bc	1013·9	-5	27	+2	ESE	5	-	o	4	-	27	23				
	Blaavands Huk	1018·9	27	ESE	4	o	1004·8	-8	30	+2	ESE	6	-	s	6	1	30	23				
	Haparanda ...	1047·4	16	SE	2	b	1033·7	-4	14	+20	ESE	2	-	o	*	-	18	-8				
	Hernösand ...	1037·3	10	NE	4	s	1022·0	-5	27	+7	SE	4	-	s	*	9	27	9				
	Stockholm ...	1027·3	23	SE	2	o	1020·6	+3	27	+6	SW	2	-	b	*	8	27	21				
	Wisby	1025·2	27	E	4	s	1021·5	+1	34	+13	S	2	-	o	*	12	34	21				
	Karlstad	1027·1	19	ENE	4	s	1020·6	-1	14	-2	ENE	2	-	o	*	5	23	10				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1011·7	28	SSE	3	o	1005·3	+8	41	+14	SW	4	-	c	2	6	43	25				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1005·5	45	S	6	r	1009·2	+6	42	-1	WSW	6	*	c	6	3	46	41				
	La Hève	1006·9	45	S	5	o	1012·8	*	41	-2	SW	5	*	o	5	2	50	39				
	Ushant	1008·8	50	NW	6	c	1013·2	*	46	-4	W	6	*	c	7	5	54	39				
	Brest (St. Mathieu)	1004·2	50	NW	5	r	1014·1	0	45	-5	W	5	*	c	5	5	54	43				
	Rochefort (Ile d'Aix)	1016·4	50	SW	5	o	1021·0	+3	46	0	W	3	*	o	*	2	52	45				
	Biarritz	1019·3	54	S	3	o	1023·3	+2	47		SW	3	*	o	3	6	52	46				
	Paris	1013·1	45	S	4	r	1016·7	+6	39	-4	SW	3	SW	b	*	3	50	39				
	Belfort							*					*		*							
	Lyons	1023·1	42	SE	2	r	1021·2	*	42	+1	S	1	*	r	*	3	43	40				
	Nice	1022·0	42	-	0	b	1024·6	0	42	+3	-	0	*	0	2	-	48	37				
	Perpignan ..	1022·7	49	-	0	o	1022·9	+3	45	+8	SW	1	NE	0	*	-	61	37				
	Sanguinaire ...	1021·2	46	E	2	o	1019·9	*	46		E	2	*	0	3	1	52	41				
SOUTHERN EUROPE.	Corunna (7 a.m.) †	1018·0	57	SW	7	r	1025·7	0	43	-11	SW	3	W	c	5	5	59	43				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)		*				1033·7	0	56	-3	NW	3	*	c	3	-	61	48				
	Madeira (Funchal)	1027·9	59	N	2	o	1029·3	0	55	+1	N	2	N	c	2	-	59	52				

GALES.

Duration and Extreme Force in British Islands.

Lerwick
7th 7a.m - 8p.m 6E. 8
8p.m - 7a.m SSE 10

Stornoway
7th. SE. 8 in squalls

Malin Head
7th. 1p.m S. 8

Holyhead
7th. 5 p.m., SSE. 8

Scilly
8th. Squall force 8

Jersey
Squalls force 8 during night

Dover
Extreme 7th 11p.m NW. 9

Wick
7th 8a.m - 8th 6a.m SE. 9

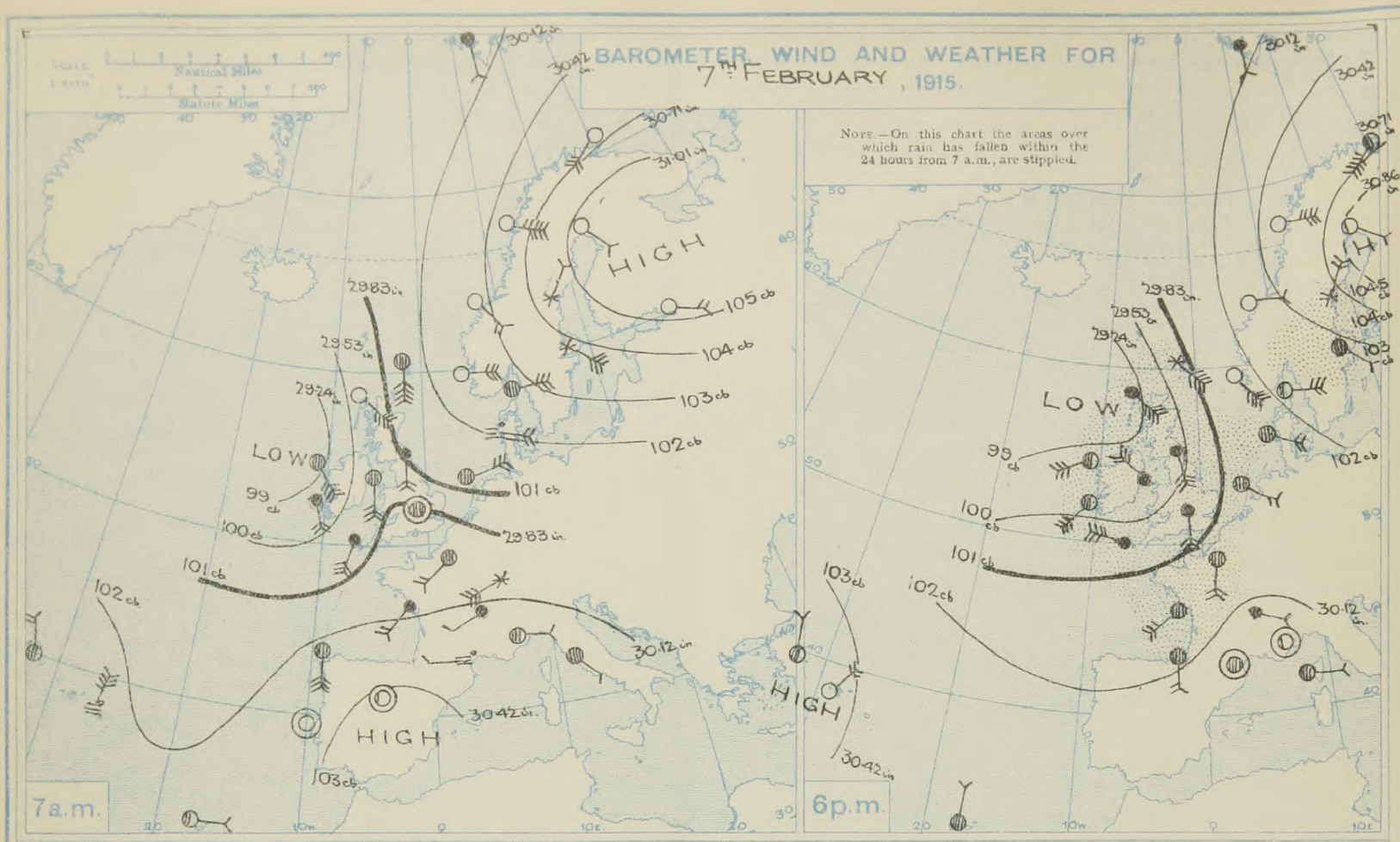
Nairn
7th 2pm - 10p.m SE. 8

Aberdeen
7th 1p.m - 10p.m SE. 8
gust 28 m.p.h.

Deerness
7th noon - 6p.m SE. 8

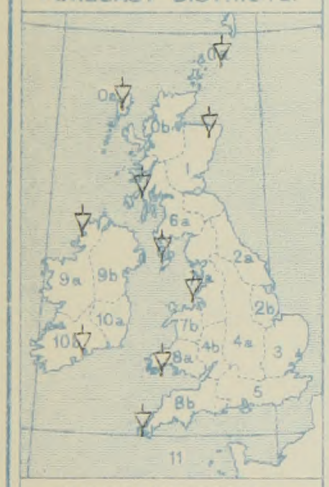
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 7TH FEBRUARY, 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.

Cones hoisted at 8.15 a.m. yesterday.

0	a, b	Western half, light to moderate Westerly breezes; eastern half, South-Easterly winds, strong to a gale, veering South-Westerly or Westerly and moderating;
1		unsettled, some rain or sleet, fairer later; moderate temperature.
2	a, b	
3		South-Westerly and Westerly breezes, fresh and
4	a, b	
5		gusty at times; changeable, some showers, but mostly
6	a, b	
7	a, b	fair to fine; mild.
8	a, b	
9	a, b	
10	a, b	
Western Channel and Bay	11	

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

FURTHER OUTLOOK.

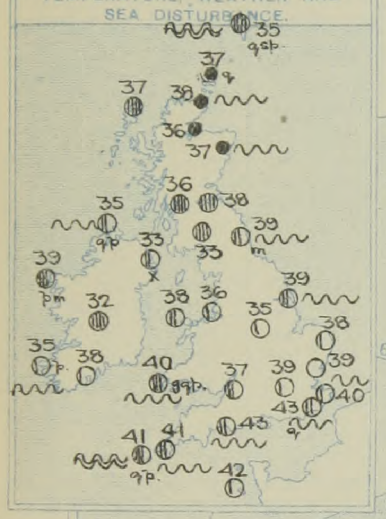
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

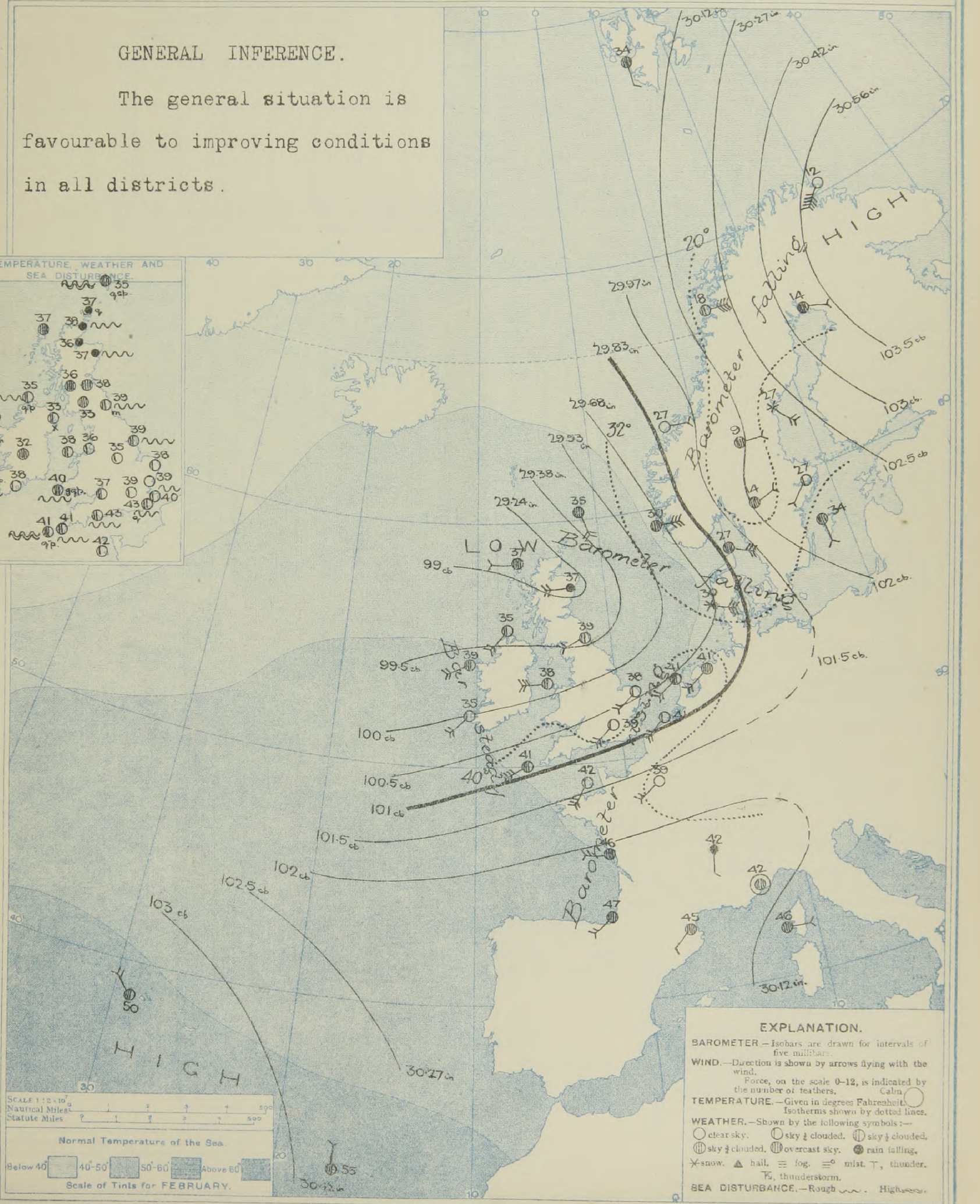
SYNOPTIC CHART FOR 7 a.m., MONDAY, 8TH FEBRUARY, 1915.

GENERAL INFERENCE.

The general situation is favourable to improving conditions in all districts.

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. ⊤, thunder.
⊤≋, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

DAILY WEATHER REPORT. Monday, 8th February, 1915.

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Heights in Kilometres	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.
Station	S. Farnborough		S. Farnborough		S. Farnborough		S. Farnborough													
Date & Hour.	1st	7h.30m.	3rd	7h.30m.	4th	16h.	5th	7h.45m.												
3	+9	−11					+2	+19												
2	+5	−8			0	+17	+2	+19												
1	+2	−10	+12	+16	0	+13	+2	+13												
0·5	+3	−9	+8	+15	−1	+14	+4	+10												
0	+1	−2	−1	+5	−2	+4	−2	+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						
Scotland.	Banff	4	46	34	rs	rs	0·0
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	4	38	34	r.d	r.d.r	0·0
Eng., N.E.	Scarborough	*	38	34	o	or	0·0
Eng., N.E.	Skegness	1	40	36	o	or	0·0
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	4	44	39	og.o	o.or	0·0
Eng., N.W.	Southport	2	44	39	or	or	0·0
Midlands.	Buxton	3	41	35	bcr	bcr	0·0
Midlands.	Leamington Spa	3	45	41	c	or	0·0
Midlands.	Malvern	16	46	37	d	r	0·0
Midlands.	Ross-on-Wye	5	50	32	ogp.d	ocq.r	0·0
Wales.	Rhyl	3	46	37			0·0
Wales.	Colwyn Bay	5	46	41	d	d	0·0
Wales.	Llandudno	5	46	42	o	r	0·0
Wales.	Aberystwyth	5	49	42	or.o	c.or	0·0
Wales.	Tenby						
Wales.	Swansea	18	46	39	r	r	0·0
England, E.	Cromer	0·3	39	35	o.cm	o.cm	0·0
England, E.	Lowestoft						
England, E.	Felixstowe	0·3	43	38	c	cp	0·0
England, E.	Walton-on-Naze	3	43	38	o.c	o.or	0·0
England, E.	Southend-on-Sea	1	48	40	cm.op	op.c	0·0
England, S.E.	Tunbridge Wells	4	46	41	cm.c.or	or	0·0
England, S.E.	Margate	2	46	41	o	or	0·0
England, S.E.	Ramsgate	5	43	40	om	o	0·0
England, S.E.	Folkestone	3	45	40	o.bc	c.or	0·0
England, S.E.	Hastings	5	46	41	or.c	c.or	0·3
England, S.E.	Bexhill-on-Sea	4	47	40	c	or	0·9
England, S.E.	Eastbourne	5	46	41	cm	or.d	0·0
England, S.E.	Seaford						
England, S.E.	Brighton	3	49	40	c.or	r.or	0·0
England, S.E.	Worthing	2	46	36	o	r	0·0
England, S.E.	Littlehampton	3	?	*	o	r.cr	0·0
England, S.E.	Bognor	5	47	37	op	o	0·0
England, S.E.	Southsea	8	48	38	or	or	0·0
England, S.E.	Bournemouth	5	49	37	or	or	0·0
England, S.W.	Weymouth	8	50	42	or	or	0·0
England, S.W.	Torquay	5	51	44	od	d.od	0·0
England, S.W.	Paignton	12	52	43	or	or	0·0
England, S.W.	Falmouth	15	51	44	dmq	rq.od	0·0
England, S.W.	Penzance						
England, S.W.	Newquay	10	51	43	om.b	omr.p	0·0
England, S.W.	Ilfracombe	13	52	43	od	od.r	0·0
England, S.W.	Weston-super-Mare	1	51	37	o.c	dr	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.)	86	73	0·0	50	38	32	5	o	or	or.b
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	78	0·0	51	?	34	12	oc.d	od	or.b
Camden Sq. (Brit. Rainfall)	—	77	0·0	50	37	32	6	—	—	*
Hampstead (Reservoir)	*	79	0·0	48	34	24	5	or	c.or	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.)	—	73	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
183 Joules	5·4 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.	5	49	37	34	b.cqr	qr	d.c.o	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	6	46	39	39	*	or	r	0·0
Oxford to 9 p.m.	*							*
Teignmouth to 9p.m.	9	52	41	35	bc.or	or	or	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	?	44	38	o	o.or	odp	*

NOTES ON YESTERDAY'S WEATHER.

Temperature turned 50° at several southern stations, but remained below 40° locally in the north. Rain was general, 15 mm at Aberdeen. Nearly all stations reported no bright sunshine.

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

Feb. 8th & 9th. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·26 / 7·44	12·7 / 12·7	4·48 / 4·50
Greenwich	7·38 / 7·58	12·14 / 12·14	4·58 / 5·0
Wick	8·6 / 8·3	12·26 / 12·26	4·46 / 4·48
Valencia	8·12 / 8·10	12·55 / 12·55	5·38 / 5·40

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. 40

Tuesday, 9th February 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Baron. 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 ...	985.1	41	SE	5	om	998.0	+3	41	+6	SSW	4	-	bc	4	12	41	33	omspq	omppq	orq. cp	*
	Deerness ...																					
	Stornoway ...	988.2	38	S	4	b	991.6	+1	38	+1	SSE	4	-	b	4	2	42	35			bcp. b	1.4
	Castlebay (Barra Isd.)																					
	Glasgow ...	995.2	35	S	2	c	987.8	-6	33	-3	ENE	4	-	s	*	3	38	31	o.c bc.c	o.c.o	c b.oo	1.7
	Eskdalemuir ...	997.6	31	S	2	c	987.9	-6	35	+2	SE	4	-	o	*	8	36	30	o.c.s	s.c	c oo.o	4.0
	Malin Head ...	990.6	37	SSW	5	bc	985.2	-5	38	+3	E	5	-	omd.	5	0.2	38	32	bcq	bcq	omd	4.5
	Blacksod Point	991.4	38	SW	3	bcps													bc.oph	bcps		*
	Valencia ...	990.2	39	E	2	o	989.8	+3	44	+9	W	5	-	cp	5	16	44	33	cph	omr	omr	1.5
	Roche's Point	993.8	41	SSE	4	r	988.8	*	36	-2	WNW	4	-	r	4	15	45	34	bc.c	c.od	rb. r	*
	Birr Castle ...	994.5	38	S	1	o	980.8	*	33	+1	NW	5	-	s	*	19	40	30	cpso. b	b.bc.o	or.oo	4.4
	Donaghadee ...	994.8	35	S	3	bc	982.8	-4	40	+7	SSE	3	s	bcmp	3	7	42	31	bcm	bc	omr.bc	*
	Liverpool (Bidston)	1000.1	36	S	2	b	987.5	+1	39	+3	SE	2	-	b	2	1	43	36	bcph	bc	bcp	3.9
	Holyhead ...	997.8	42	SW	3	c	984.1	-1	42	+4	S	6	S	bcq	5	6	43	37	sc. bc	bc	oqu r	7.1
	Pembroke (St. Ann's)	998.7	49	S	4	c	987.1	-1	40	0	SW	6	SW	cqp	6	15	44	39	cqqp	cqp	cqq	1.4
	Scilly (St. Mary's)	999.0	46	S	5	cpq	991.3	-1	40	-1	WSW	6	W	cqp	6	10	47	37	cpq	cpqb	omr.qq	6.2
	Falmouth ...	1000.5	44	SSW	4	bc	992.1	0	38	-3	SW	4	-	bc	5	14	47	38	phq	phqb	rqb	0.2
	Jersey (St. Aubin)	1009.5	46	SW	5	o	996.3	*	44	+2	SW	4	SW	o	4	10	49	42	qp.b	bc.cop	omr.o	5.3
	Portland Bill ...	1004.7	44	SSW	5	op	993.7	-2	44	+1	WSW	5	SW	c	5	11	47	40	bcpq	cp	or	*
	Dungeness ...	1009.3	45	SW	8	cq	997.6	-8	45	+2	S	8	-	oq	7	1	46	40	bcrq	cq	c.oqq	*
	Dover	1009.9	45	SW	6	bc	998.5	-4	44	+4	S	5	S	c	6	1	45	40	b ohp b	bcph.c	bc.c	3.3
	Wick	990.3	37	SW	4	o	994.7	+1	38	0	S	3	-	bc	5	10	38	33	omso	omso	bcm	*
	Nairn	991.6	33	W	1	bc	993.2	*	33	-3	-	0	-	cq	1	1	38	28	dp	c.bc	cqpc	0.0
	Aberdeen ...	994.7	37	SSW	3	bc	993.7	-4	40	+3	SE	5	-	r	5	3	40	35	or.o	o.c.bc	bc.b.r	0.1
	Leith	995.8	37	SW	3	b	988.6	-4	38	0	E	3	-	r	*	3	40	34	o.bc	bc.b	bc.so	*
	Tynemouth ...	998.2	36	S	2	bcm	989.8	-7	43	+4	SSE	5	s	cmqr	4	4	43	3	c	c	bcmr	*
	Spurn Head ...	1003.2	39	WSW	6	bc	994.4	-3	41	+2	SSE	7	-	cq	6	-	42	37	bcq	bcq	bcq	4.3
	Yarmouth ...	1007.4	40	SSW	2	bm	998.9	-3	42	+4	S	S	S	o	3	4	46	36	bm	bm	or.oqr	6.0
	Clacton-on-Sea	1007.6	42	SW	4	bc	997.3	-4	43	+4	SSE	6	S	oq	S	2	47	38	b.bc	crhq.bc	c.oqr o	4.9
	Nottingham ...	1003.2	40	SW	2	bc	991.2	*	44	+9	S	4	S	o	*	2	44	35	bc.o	o.bc	bc.c.o	2.7
	Bath	1004.5	41	S	3	r	992.6	*	41	+4	SW	2	SW	bc	*	7	47	36	o.c bc.b	bc.c.op	or bc c	3.7
	London (Kew Obsy.)	1007.2	43	SW	5	or	994.1	-4	44	+5	S	6	-	oqr	*	8	46	39	b.bcor	or.o bcor	or.oqr	4.5
ICELAND, FAEROE, &c.	Spitsbergen ...	1015.0	34	SW	2	o	1010.7	*	30	-4	N	2	*	o	*	*	34	28				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorsbavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1025.2	21	SW	5	b	1017.7	-6	25	+13	SW	4	-	s	4	*	25	9				
	Bodö	1014.0	15	E	7	b	1008.6	0	27	+9	E	4	-	o	2	-	27	12				
	Christiansund	1009.6	30	-	0	b	1007.1	+2	36	+9	SE	1	-	b	3	-	36	27				
	Skudesnaes ..	1003.9	34	SSE	8	s	1006.9	+3	37	+7	SSE	5	-	o	4	7	34	27				
	Færder (X'tiania Fjord)	1009.7	27	N	4	o	1014.6	+3	36	+16	ESE	4	-	o	2	½	27	21				
	The Scaw (Skagen)	1009.7	34	SSE	4	b	1015.3	+3	34	+7	S	3	-	o	3	2	36	27				
	Blaavands Huk	1011.1	36	SSW	3	b	1012.8	0	34	+4	SSE	3	-	b	4	2	34	25				
	Haparanda ...	1027.3	19	S	4	s	1021.9	-2	23	+9	SSE	6	-	o	*	4	23	14				
	Hernösand ...	1020.0	28	NE	2	s	1018.7	+2	34	+7	SW	2	-	o	*	7	41	25				
	Stockholm ...	1016.2	34	SSE	6	o	1021.2	+2	34	+7	SSE	2	-	m	*	Trace	36	27				
	Wisby	1020.4	36	S	4	c	1022.3	+1	34	0	S	4	-	s	*	2	36	32				
	Karlstad	1012.0	32	E	4	s	1019.0	+7	34	+20	SE	2	-	o	*	5	36	14				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1010.9	39	S	5	c	1007.0	-2	39	-2	SSE	5	-	bc	3	-	45	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1010.4	45	SW	6	c	1000.2	-4	43	+1	S	7	*	o	5	4	46	42				
	La Hève	1012.4	45	WSW	5	c	998.4	*	43	+2	S	6	*	r	5	-	50	39				
	Ushant	1007.7	48	SW	7	6	9947	*	45	-1	SSE	4	*	c	5	5	52	41				
	Brest (St. Mathieu)												*									
	Rochefort (Ile d'Aix)	1018.4	45	SW	5	o	1004.2	?	46	0	SW	5	*	o	*	4	50	45				
	Biarritz	1020.6	48	W	2	o	1005.3	-3	50	+3	S	3	*	bc	4	-	52	45				
	Paris														*							
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1023.3	40	-	0	r	1017.2	-4	41	-1	-	0	*	r	3	11	46	39				
	Perpignan ..	1022.6	48	W	1	o	1013.0	-5	41	-4	SW	1	-	o	*	Trace	57	39				
	Sanguinaire ...	1022.3	47	S	2	o	1014.9	*	49	+3	E	2	*	o	3	1	52	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021.5	52	SW	5	o	1011.1	0	50	+7	NW	3	-	o	6	16	54	43				
	Madrid (8 a.m.)	1021.7	50	W	2	c	1019.3	+1	36		SW	2	-	o	*	-	54	36				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*		*							
	Rome														*							
	Azores (Horta, 8 a.m.)	1024.0	*	NNW	3	c							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Lerwick
8th 7a.m.-4p.m. SE 10

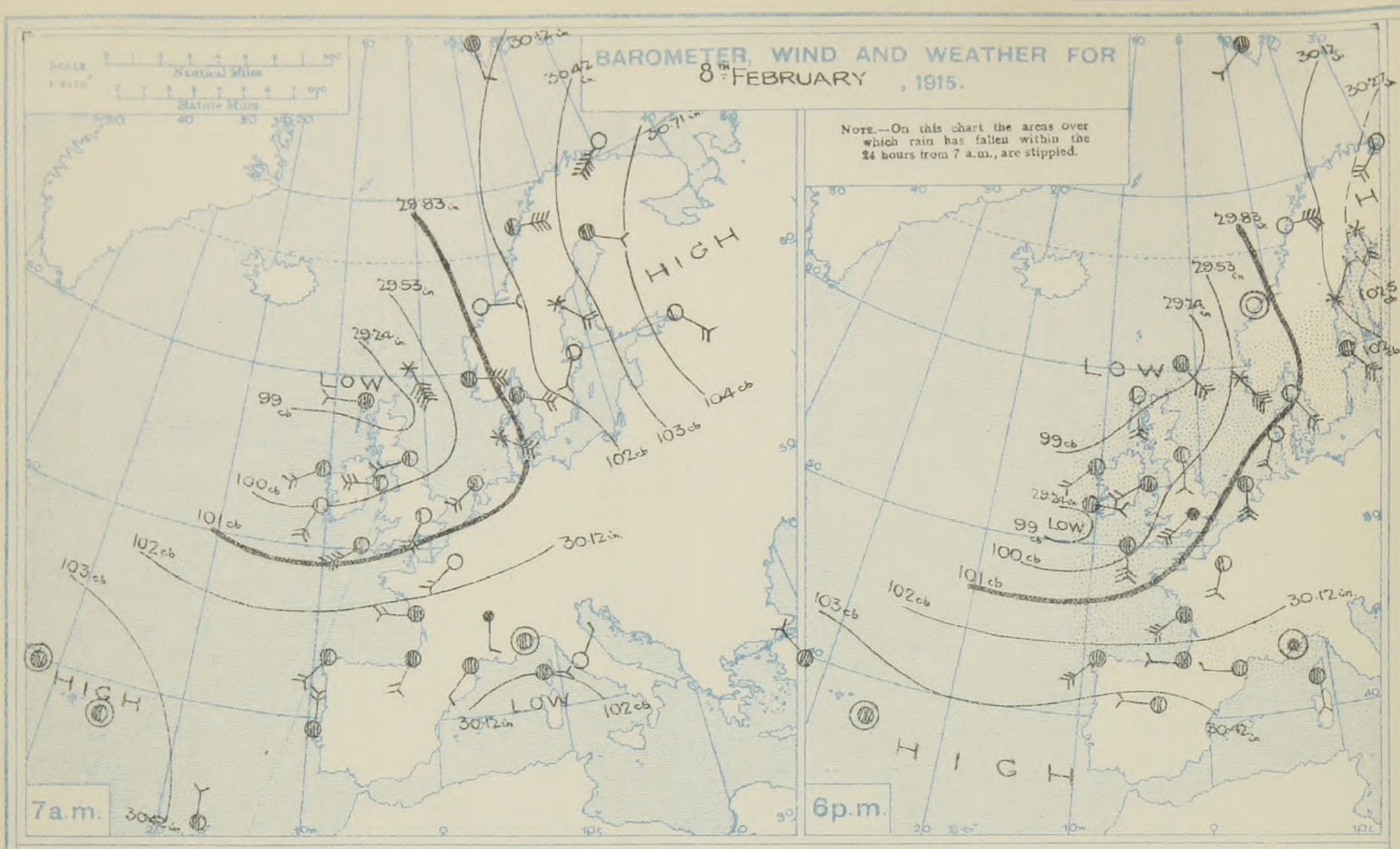
Pembroke
8th 11p.m. Extreme S.8

Scilly
Squall WSW 8

Dungeness
8th 1p.m.-7a.m. S.8

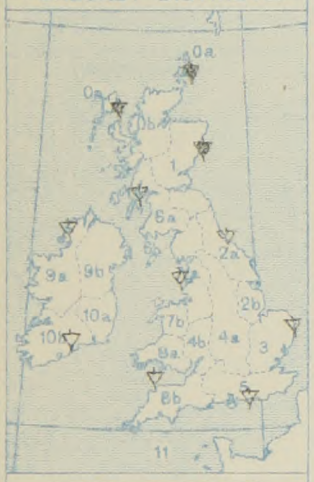
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 8TH FEBRUARY, 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.

Cones hoisted at 7.5 p.m. & 8.35 a.m.

Western Channel and Bay 11

0 (a, b), 1 — Easterly to Southerly winds, strong to a gale at times; unsettled, some rain and snow; rather cold.

2 (a, b), 3, 4 (a, b), 5 — Squally Southerly winds, veering Westerly, strong to a gale at times; unsettled, some rain, hail or sleet; temperature moderate to rather cold.

6 (a, b) — Same as Nos. 0 and 1.

7 (a, b), 8 (a, b) — Same as Nos. 2 to 5.

9 (a, b) — Squally Northerly to Westerly winds, strong to a gale at times, backing again later; unsettled, some rain and snow; rather cold.

10 (a, b) — Same as Nos. 2 to 5.

11 — Same as No. 9a.

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

FURTHER OUTLOOK.

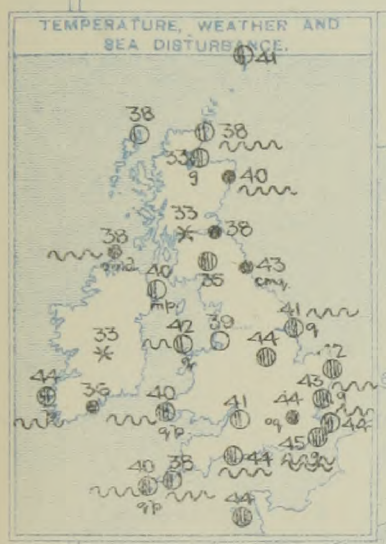
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 9TH FEBRUARY, 1915.

GENERAL INFERENCE.

The distribution of pressure remains of a very unsettled type.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



Bar. falling

Barometer

HIGH

LOW

HIGH

Inches

31

30

29

Scale 1:12,510,000

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 FEBRUARY.

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 9th February 1915.

REPORTS FOR YESTERDAY.

February 8th 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	1014.1	14	E	2	b	1044.3	+2	12		SE	3	-	b	c	-	18	10
Lisbon	1026.7	54	SSW	4	o	1025.9	+1	50		N	4	-	o	6	1	55	50
Rome	1023.4	48	SW	1	r	1023.9	0	43		NE	1	-	b	c	6	52	43

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	13	48	35	hh	c	2.4
	Banff	25	38	33	m.o	o.c.bc	0.0
	St. Andrews	21	41	35	*	*	3.9
Engd. N.E.	Harrogate	12	38	33	bc.b	c.bc	3.1
	Scarborough	*	42	35	o.c	c.b	4.3
	Skegness	5	44	36	bc.o	o.bc	3.8
Engd. N.W.	Morecambe	8	43	38	o.bc	bc	5.0
	Blackpool	8	43	39	c.d.c	d.c.op	4.3
	Southport	5	42	37	c.bc.c	c.b.op	4.7
Midlands.	Buxton	10	43	32	bcs	sc.b	0.6
	Leamington Spa	5	43	36	cp.bc	c.bc	2.9
	Malvern	20	42	33	bc	r	4.3
	Ross-on-Wye						
Wales.	Rhyl	4	44	35	bc.o.bc	q.bc.o	5.2
	Colwyn Bay	7	42	37	bc.bh	bc.bhq	3.5
	Llandudno	6	46	?	b	b	6.7
	Aberystwyth	10	46	38	o.r.c	c.c.o	2.0
	Tenby	12	44	38	bh.bc	o	2.0
	Swansea	9	44	34	w.cph	c.r	1.4
Englnd. E.	Cromer	7	46	36	b.bc.o.c	w.cr.b	5.0
	Lowestoft	6	46	38	bc	c.ogh.c	5.4
	Felixstowe	7	46	38	bc	bcpq	5.6
	Walton-on-Naze	7	45	38	b.bc	c.or.bc	4.8
	Southend-on-Sea	4	47	38	b	cpro	5.3
England. S.E.	Tunbridge Wells	15	47	37	b.bc	c.oh.or	3.4
	Margate	3	47	38	b	bcp	5.2
	Ramsgate	3	45	35	bc	bc.op	6.0
	Folkestone	5	46	39	or.bc	bc	3.7
	Hastings	5	48	39	or.b.bc	bc.c	3.4
	Bexhill-on-Sea	Trace	46	44	c	c	3.0
	Eastbourne	6	47	40	bcp	bcq	4.5
	Seaford	5	45	41	bc	o	3.3
	Brighton	7	47	41	c.or.o	ohr.or	3.8
	Worthing	9	46	40	p	p	3.2
	Littlehampton	9	48	37	bc.b	r.d.c.d.c	3.2
	Bognor	9	46	40	b.bcp	or	3.2
	Southsea						
	Bournemouth	3	46	38	bc.r	or	2.1
	Weymouth	9	47	40	bc.op	bcp.o	1.8
	Torquay	7	46	38	or	p.bc.c.o	1.6
	Paignton	9	46	36	chr	c.p.c	0.0
	Falmouth	11	45	38	phr.rq	phr.rqc	0.2
	Penzance	14	46	39	or	r.bc	0.0
	Newquay	6	46	37	o.c	op	0.1
	Ilfracombe	10	46	37	r.c.bc	bcp.bc	2.0
	Weston-super-Mare	9	45	36	ber.b	b.bc.c	2.1

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.)	78	85	5.4	45	39	36	12	bc o	o or	or
City (Bunhill Row)	*	*	1.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	77	90	3.7	48	39	36	13	ber	bc	bc.or
Camden Sq.	80	90	2.4	46	40	37	11	b	bc,or,c	*
Hampstead	*	95	3.1	45	36	32	11	bc,or	or	or
Richmond	*	*	5.1							
Kew. (see front page)										
(Greenwich and Camden Square air temperatures are as in Glaisher screens.)										
S. Kensington (Roof of M.O.)	83	87	3.6							

Vertical Component of Solar Radiation per Square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
452 Joules	13.3 Milliwatts.	31 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.	Trace	42	33	32	bq.c	bc	bc	*
Darwen to 9 p.m.								
Manchester ,,	5	44	34	*	or.c.bc	bc.o.b	b.c.o	1.7
Birmingham ,,	9	46	33	30	*	c.r	b.o	0.8
Oxford to 9 p.m.	*	47	36	31	or.bc	bc.or	c.or	*
Teignmouth to 9p.m.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	7	50	36	33	b.or.b	bc.b	or.o	*

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

Feb. 9th 10th 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.24 / 7.22	12.7	4.50 / 4.52
Greenwich	7.28 / 7.26	12.14	5.0 / 5.2
Wick	8.3 / 8.0	12.26	4.48 / 4.51
Valencia	8.10 / 8.8	12.55	5.40 / 5.42

NOTES ON YESTERDAY'S WEATHER.

At most of the northern and north-western stations temperature remained below 40°. Rain was general, heavy in places, 19 mm. at Birr Castle. There were, however, many good sunshine records, up to 7 hours at Holyhead.

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. 41

Wednesday, 10th February, 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 ...	998·7	44	SE	6	cm	1004·4	+1	41	0	SE	7	-	cmq	6	4	44	38	cm	cmp	cmpq	*
	Deerness ...	993·2	38	SE	5	r	998·3	*	40	+2	ESE	5	-	r	4	7	44	36	bc.c.or	r.or	r	0·0
	Stornoway ...	988·4	40	E	2	c	993·6	+3	39	+1	E	3	E	bc	3	0·3	41	35	cmq	cmq.c	cd.b.blc	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	987·6	36	ENE	2	bc	992·6	+5	36	+3	SE	2	S	o	*	2	41	32	o.c	orsp.bc	bc.op.o	1·6
	Eskdalemuir ...	988·0	37	SSE	5	o	993·4	+4	34	-1	SE	3	-	o	*	3	41	33	ohq.o	o.c.o	o	2·5
	Malin Head ...	984·7	37	NE	4	cph	988·0	+2	36	-2	SW	3	-	cm	3	4	41	35	cgr	bcph	cm	1·7
	Blacksod Point	988·4	37	NNW	2	bc													bc	bc		*
	Valencia ...	990·8	44	W	5	bc	992·2	+4	37	-7	ENE	1	-	bc	4	8	44	36	cph	rth	o.bcp	0·3
	Roche's Point	991·6	39	W	4	c	993·0	*	39	+3	NW	1	-	b	4	1	43	36	p.c	cp	c.b	*
	Birr Castle ...	987·5	34	SW	1	c	990·9	*	34	+1	S	1	-	c	*	18	39	32	s.o	c	c	0·9
	Donaghadee ...	981·6	38	E	4	cmphs	991·0	+4	35	-5	S	3	S	cmpo	2	2	43	33	cmph	cmphs	cgmpo	*
	Liverpool (Bidston)	989·6	37	SSE	4	o	993·9	+4	35	-4	SSE	2	S	c	3	2	43	34	bc.b	bcp	cpsc	6·3
	Holyhead ...	985·8	40	SW	6	ogpqr	992·1	+2	42	0	SW	4	SW	c	3	3	42	35	chp.op	op.c.op	op.c.b	0·6
	Pembroke (St. Ann's)	991·3	43	WSW	5	b	993·3	+2	42	+2	SW	4	SW	cq/p	5	8	44	36	cq/p	oqr	bq	0·0
	Scilly (St. Mary's)	995·4	44	W	6	cpq	995·1	0	42	+2	SSW	4	S	cq	6	3	45	37	bcpq	cpq	bcq	3·6
	Falmouth ...	995·9	38	W	4	c	996·2	+1	40	+2	SW	3	-	bc	4	6	46	36	bcph	bcph	bc	3·1
	Jersey (St. Aubin)	998·5	44	SW	4	b	1000·4	*	42	-2	SW	3	-	b	3	0·3	48	41	b.bc	bc.b	bcp.b	6·7
	Portland Bill ...	995·4	43	SW	5	cq	997·8	+1	43	-1	WSW	3	SW	cp	4	4	46	40	crq	cq	c.bcp	*
	Dungeness ...	997·6	44	SW	4	cq	1000·7	+3	43	-2	SW	4	SW	bc	5	4	45	40	cpq	o cq	p.bc	*
	Dover	998·3	43	SSW	5	bc	1001·5	+1	41	-3	SW	4	SW	bc	4	0	44	37	op	cph.bc	c.or.bc	0·2
	Wick	991·6	43	SE	5	r	997·1	+3	42	+4	SE	5	-	o	5	3	43	38	bc.omr	omr	orq.om	*
	Nairn	989·5	40	ESE	1	cu	994·0	*	36	+3	E	1	-	cg	2	1	43	31	d.bc	cg	cpsa	1·2
	Aberdeen ...	991·8	42	SE	4	o	996·6	+4	40	0	SSE	4	-	b	4	11	44	39	or	op	op.bc	0·0
	Leith	988·4	41	ESE	2	b	993·5	+2	37	-1	E	3	-	o	*	1	44	36	od.o	a.c.bc	bc.c	*
	Tynemouth ...	990·9	42	SE	4	bc	995·3	+1	37	-6	S	3	-	om	3	-	44	36	cm	bcm	om	*
	Spurn Head ...	993·2	40	SSE	6	bc	996·4	+3	42	+1	S	4	-	bcp	5	1	44	36	cq.or.c	bcq	bcq	0·7
	Yarmouth ...	997·0	41	S	4	om	1000·6	+2	38	-4	S	2	SW	bc	1	4	43	35	omr	omr	b	0·0
	Clacton-on-Sea	996·8	42	SSW	3	bc	999·6	+2	41	-2	S	2	SW	b	2	6	43	39	ogr.c	cpr.bc	bc.b	0·0
	Nottingham ...	993·5	41	S	2	bc	996·7	*	37	-7	SW	2	SW	o	*	1	46	35	o.c.b	b.bc	bc.b	2·4
	Bath	995·0	39	WSW	1	c	997·7	*	38	-3	S	1	SW	c	*	1	46	37	c.bc.b.p	d.cr3	c.bc.b.p	5·7
	London (Kew Obsy.)	996·6	40	SSW	3	b	999·5	+4	37	-7	S	2	SW	bcmx	*	6	46	35	omq.orad	cp.bc.b	b.bc.bcmx	3·3
ICELAND, FAEROE, &c.	Spitsbergen ...	1009·6	18	SW	7	b	1010·9	*	12	-18	N	3	*	o	*	*	30	12				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö †	1013·2	28	SW	6	o	1013·1	0	25	0	W	3	-	b	3	*	28	12				
	Bodö	1011·7	36	E	1	o	1015·8	+1	32	+5	ESE	1	-	o	1	?	36	25				
	Christiansund	1011·9	41	E	3	o	1015·4	0	39	+3	-	0	-	c	3	1	41	36				
	Skudesnaes ..	1009·1	39	SE	5	b	1009·9	0	37	0	ESE	4	-	o	3	8	39	36				
	Færder (Xtiania Fjord)																					
	The Scaw (Skagen)	1016·6	34	SE	3	b	1013·6	-2	34	0	ENE	3	-	s	3	Trace	36	32				
	Blaavands Huk	1010·6	34	SE	3	m	1007·5	0	32	-2	SE	3	-	f	4	-	37	30				
	Haparanda ...	1021·7	27	S	6	o	1020·7	-2	27	+4	SSW	6	-	s	*	2	27	23				
	Hernösand ...	1022·9	32	SW	2	o	1022·9	0	27	-7	S	2	S	bc	*	-	37	27				
	Stockholm ...	1022·9	34	SSE	2	f	1022·0	-1	32	-2	SE	2	-	o	*	-	36	30				
	Wisby	1023·0	32	S	2	o	1020·4	0	30	-4	SSE	2	-	o	*	1	36	30				
	Karlstad	1021·6	32	ESE	2	o	1019·3	0	34	0	-	0	-	o	*	-	37	28				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1002·0	39	ESE	2	o	1001·7	+1	36	-3	SE	1	-	m	1	1	45	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...												*									
	La Hève	1000·7	40	SSW	4	o	1001·1	*	37	-6	S	2	*	m	3	-	46	36				
	Ushant							*					*									
	Brest (St. Mathieu)	999·1	46	WNW	3	c	999·7	0	45	0	SW	4	*	c	4	2	52	43				
	Rochefort (Ile d'Aix)	1003·7	45	WSW	4	c	1001·7	0	41	-5	S	3	*	c	*	2	50	39				
	Biarritz	1007·8	42	SW	4	r	1003·7	0	41	-9	S	2	*	c	5	14	50	41				
	Paris	1001·9	41	S	2	o	1002·9	0	30	-13	S	1	-	o	*	6	46	30				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ..	1005·7	46	W	1	o	1005·5	0	41	0	E	1	SW	o	*	Trace	52	41				
	Sanguinaire ...	1013·0	47	E	4	r	1004·2	*	50	+1	W	4	*	m	3	8	52	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1009·0	45	NW	6	r	1004·7	-5	41	-9	SW	3	-	o	5	9	50	41				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1033·2	*	NW	4	c							*									
	Madeira (Funchal)	1027·5	59	N	2	o	1026·7	0	54	-3	N	2	N	bc	2	-	63	54				

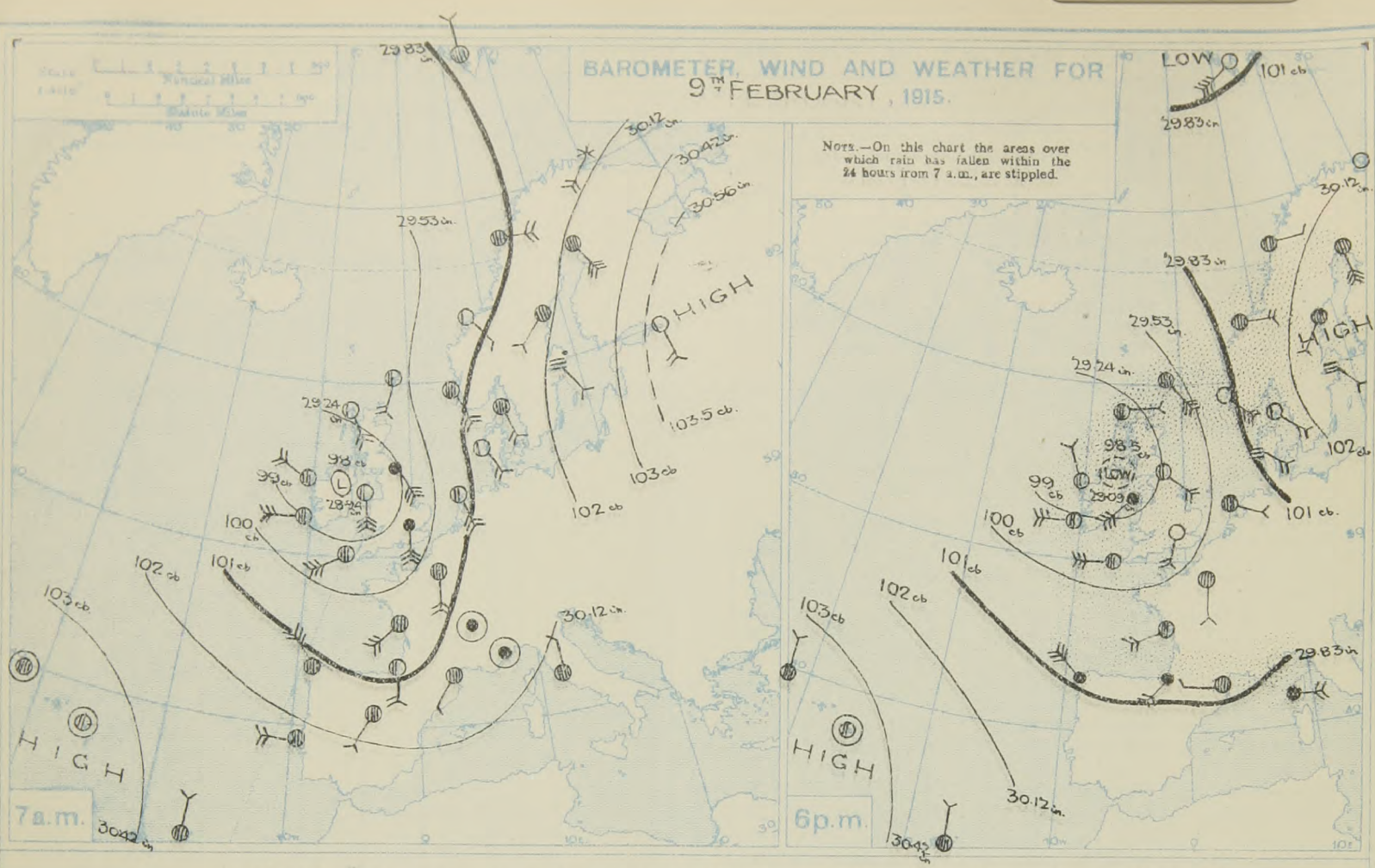
RAINFALL.

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 9TH FEBRUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

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 yesterday at 8.35 a.m.

Western Channel and Bay 11

0 a, b; 1 — Wind between East and South, mostly light to moderate; changeable, some rain or snow, fair or fine periods; moderate temperature.

2 a, b; 3; 4 a, b; 5 — Light to moderate breezes between South and West; changeable, local showers of rain, sleet or snow, fair to fine periods; moderate temperature.

6 a, b — Same as Nos. 0 and 1.

7 a, b; 8 a, b — Same as Nos. 2 to 5.

9 a, b; 10 a, b

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., WEDNESDAY, 10TH FEBRUARY, 1915.

GENERAL INFERENCE.

Yesterday's depression is passing back to the Atlantic, and a temporary improvement in the weather is probable over this country.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

Mill. Inches.
31
30
29

29.97 in.
32°
32
Little changing
30.12 cb.
27
H I G H
29.83 in.
29.68 in.
29.53 in.
40°
29.38 in.
29.24 in.
Barometer
LOW
99 cb
rising
40°
99.5 cb
100 cb
100.5 cb
Bar. falling
101 cb
101.5 cb
102 cb
102.5 cb.
HIGH
30.27 in.
Barometer
32°
101.5 cb.
101 cb.
40°
HIGH
29.83 in.
30.12 in.
29.97 in.

SCALE 1:12×10⁶
Nautical Miles
Statute Miles

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

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, 10th February, 1915.

REPORTS FOR YESTERDAY.

9th February, 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.
Deerness	988·5	37	SW	3	r	999·6	*	38	+1	SSE	4	-	be	5	10	39	34
Petrograd	1040·0	18	SE	3	b	1038·4	+1	9	-3	S	3	-	b	*	-	23	9
Brest	1006·1	48	SSW	5	o	999·3	0	45	0	W	3	*	c	5	5	54	41
Paris	1016·7	45	S	3	b	1007·3	-4	43	+4	S	4	-	o	*	-	50	39
Lyons	1024·0	38	S	1	b	1015·1	*	37	-5	S	1	*	r	*	7	43	34
Lisbon	1026·3	52	NW	4	o	1021·3	-3	50	0	W	4	-	o	1	-	55	48
Rome	1023·9	48	NW	1	o	1021·3	0	45	+2	N	1	-	o	*	-	54	43
Horta						1034·0	0	55	+5	WNW	1	*	c	2	-	59	50
Funchal	1028·8	61	N	2	o	1028·6	-1	57	+2	N	2	-	o	2	-	63	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	4	48	34	or	be. c	1·8
	Banff	7	43	31	r	or	0·0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	42	33	o. c	be. c	0·3
	Scarborough	*	43	34	o	or	0·9
	Skegness	2	43	39	or	be. b	1·2
Eng. N.W.	Morecambe	5	42	36	be	be. or	4·0
	Blackpool	2	44	37	c. be	c. op	4·2
	Southport	1	44	36	e be. o. c	c. o	4·5
Midlands.	Buxton	7	40	33	be	be	2·6
	Leamington Spa	3	46	36	be	be	4·0
	Malvern	-	43	32	be	be. c	5·0
	Ross-on-Wye						
Wales.	Rhyl	3	43	35	be	be. or	5·9
	Colwyn Bay	9	42	36	be. o	p	5·2
	Llandudno	9	42	40	c	c	3·3
	Aberystwyth	16	41	37	or. c	or. o	1·7
	Tenby	13	42	36	bop	be. o	0·4
	Swansea	7	45	37	be	hu	3·8
England, E.	Cromer	1	44	39	o. c	o. c	0·0
	Lowestoft	7	43	41	or	or c	0·0
	Felixstowe	5	43	39	cpq	cpq	0·0
	Walton-on-Naze	5	43	38	oq r	op. c. be	0·0
	Southend-on-Sea	4	44	41	r. or	or. b. be	0·9
England, S.E.	Tunbridge Wells	15	45	38	or	o. cp. o	1·1
	Margate	4	45	40			0·2
	Ramsgate	8	43	38	rq	bcq	0·4
	Folkestone	7	47	43	or	be. o. c	1·3
	Hastings	6	46	40	c. or. c	c. or	1·7
	Bexhill-on-Sea	4	46	40	r	c	2·5
	Eastbourne	5	47	40	opq	o. b. oph	2·1
	Seaford	10	46	39	o	c	2·4
	Brighton	8	45	42	or. o. c. o	o. c. o. c	2·1
	Worthing	11	43	40	r	be	3·6
	Littlehampton	10	47	38	r. c. r	be. b. be	3·6
	Bognor	11	46	41	op. be	beph	3·5
	Southsea	15	48	40	o	o	4·7
	Bournemouth	5	46	39	be. r	be	5·4
England, S.W.	Weymouth	11	48	40	bcp	bcq	5·4
	Torquay	12	43	37	b	be	4·8
	Paignton	13	46	36	be. p	be	5·6
	Falmouth	11	46	36	beph	beph	3·1
	Penzance	9	47	37	crh be	crh	3·8
	Newquay	8	45	36	bcpqh	bcpqh	2·8
	Ilfracombe	13	44	36	cph. be	bcp. c	3·2
	Weston-super-Mare	3	45	38	b	bcp. c	4·3

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.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	67	77	3·8	50	34	25	1	cp	b	b. be
City (Bunhill Row)	*	*	1·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	83	3·3	48	37	31	r	r, be	be	or. be
Camden Sq. (Brit. Rainfall)	63	88	2·6	48	35	30	1	orgm. o	c. be	*
Hampstead (Reservoir)	*	86	2·4	45	36	23	2	or. be	bcx	be
Richmond Park	*	*	3·6							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	69	80	3·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
486 Joules	13·3 Milliwatts.	39 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.	8	38	35	33	r. c. b	cd. s	s oq	*
Darwen to 9 p.m.	4	41	34	31	ow r	or b w	be. o. wr	0·7
Manchester ,,	2	45	38	*	op	o. c. be	c. op	3·3
Birmingham ,,	4	42	35	32	*	r. c	c	6·1
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	10	47	40	39	od	or. o. c	o. c	*

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

10th & 11th Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.22 / 7.20	12.7 / 12.7	4.52 / 4.54
Greenwich	7.26 / 7.24	12.14 / 12.14	5.2 / 5.4
Wick	8.0 / 7.57	12.26	4.51 / 4.54
Valencia	8.8 / 8.6	12.55	5.42 / 5.44

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 40° at nearly all stations. Rain, hail, sleet or snow fell generally, the snow at Birr Castle yielding 18 mm. of water. There were many good sunshine records, up to 6·7 hrs. at Jersey.

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. 42 (Thursday 11th February 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 ...	1007·7	42	SE	5	cm	1010·8	0	40	-1	SSE	4	-	cm	4	6	42	38	cmp	cmp	cmp	*
	Deerness ...	1003·7	42	SE	4	bc	1006·8	*	40	0	ESE	4	-	oc	4	1	44	39	r,c	c.bc	bc c.o	2·8
	Stornoway ...	999·6	40	ESE	5	bcq	1004·3	+2	38	-1	-	0	-	b	0	-	43	33	bcq	bcq	b	4·2
	Castlebay (Barra Isd.)																					
	Glasgow ...	998·7	38	ESE	3	c	1003·7	+2	34	-2	ENE	2	-	b	*	0·4	39	33	odp.o.c	edp.o.c	c.bc bc	0·3
	Eskdalemuir ...	1000·0	38	SE	3	o	1003·6	0	32	-2	NE	1	-	cmx	*	-	40	31	o.c	o	bc.cmx	1·8
	Malin Head ...																					
	Blacksod Point	995·0	38	NW	3	bc													bc	bcp	.	*
	Valencia ...	996·9	42	NW	3	r	1000·7	+1	42	+5	NW	2	-	c	4	4	46	36	cp	cp	obr.c	3·0
	Roche's Point	997·2	42	W	1	c	999·6	*	38	-1	N	3	N	c	3	1	46	37	b	bc.b	b bc.c	*
	Birr Castle ...	995·0	33	S	1	o	999·2	*	30	-4	-	0	-	f	*	3	38	30	c.or	cp.o	ocf	1·3
	Donaghadee ...	994·8	39	SSE	3	cmph	1000·0	+1	40	+5	SE	4	-	cmp	4	7	42	33	cgm	cmph	ogmph	*
	Liverpool (Bidston)	999·4	41	SSE	2	b	1001·2	+1	34	-1	SE	1	-	f	2	-	46	33	bc	bc	bm	5·3
	Holyhead ...	997·1	43	S	5	cp	998·8	0	40	-2	E	4	E	bc	3	13	46	39	cp.cp	cp.o.c	cp.cp.c	1·8
	Pembroke (St. Ann's)	997·5	43	SSW	4	b	996·7	-2	34	-8	NW	1	-	cgpa	3	21	45	33	cap	cap	bapb	3·6
	Scilly (St. Mary's)	998·3	44	SW	3	cpq	998·2	+1	41	-1	NNW	3	NW	cafl	4	5	47	41	cpq	bcpq	capcl	5·0
	Falmouth ...	999·9	41	SW	3	bc	997·9	+1	37	-3	WNW	2	-	bc	3	5	48	37	bc	bcp	bc or b	3·3
	Jersey (St. Anbin)	1002·0	42	SE	3	b	1002·2	*	37	-5	SE	4	-	o	3	-	46	36	b	bc.b	b.o	7·0
	Portland Bill ...	1001·2	45	SSW	3	bc	1000·6	-2	43	0	S	4	S	bc	4	-	47	42	c.bc	bc	bc.o	*
	Dungeness	1001·[illegible]	43	SW	2	bc	1003·0	0	32	-11	N	1	-	m	2	-	47	30	bc	bc	bcfx	*
	Dover ...	1002·6	40	SW	1	b	1004·0	0	35	-6	W	1	-	bm	2	-	46	35	.o	bc.c bc	bc bq	4·6
	Wick	1002·4	42	SE	4	o	1006·6	0	42	0	SE	4	-	o	4	Trace	43	39	om.cm	cm opd	omq	*
	Nairn	1000·9	38	SE	1	bcx	1005·0	*	32	-4	-	0	-	cg	1	-	42	30	c.cg	bc	cx	1·7
	Aberdeen ...	1002·5	41	SSE	3	o	1005·4	0	39	-1	ESE	3	-	o	4	3	43	37	bc.op	o.c.o	o.bc.o	0·2
	Leith	1000·0	42	ESE	2	c	1003·4	0	36	-1	ESE	2	-	c	*	-	44	35	o.c. bc	bc.c	o	*
	Tynemouth ...	999·3	40	SSE	3	bcm	1002·3	0	40	+3	E	3	-	cm	3	-	41	36	cm	cm	bcm	*
	Spurn Head ...	1002·2	41	S	2	bc	1002·1	0	39	-3	-	0	-	cm	5	0·2	44	36	bc	bc	bc	4·2
	Yarmouth ...	1002·4	40	S	1	bc	1002·1	0	34	-4	W	1	*	f	1	-	45	32	bc	bc	cf	5·5
	Clacton-on-Sea	1001·5	41	S	1	c	1002·2	0	35	-6	WNW	2	NW	cm	1	-	45	34	b.bc	bc.c	c.bc.cm	6·4
	Nottingham ...	1001·2	40	S	1	bc	1003·8	*	29	-8	..	0	-	fx	*	-	48	26	o.c.b	bc	bc b	4·1
	Bath	1001·2	42	S	1	b	1001·3	*	32	-6	SE	1	-	b	*	-	48	29	e.bc.b	bc.b	cm	4·8
	London (Kew Obsy.)	1002·7	42	SW	3	c	1002·9	-1	29	-8	-	0	-	fx	*	0·3	48	28	bcm.bcb	b.bc.c	cwor bc bfpl	6·8
ICELAND, FAEROE, &c.	Spitsbergen ...	1014·1	5	NE	6	o	1017·3	*	-4	+16	NE	6	*	o	*	*	12	-4				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1017·2	21	-	0	b	1013·3	0	27	+2	SSW	2	-	c	3	*	27	21				
	Bodö	1018·1	32	-	0	o	1017·3	0	32	0	E	1	-	c	1	-	32	30				
	Christiansund	1014·6	34	-	0	b	1013·5	-1	34	-5	-	0	-	b	3	-	29	32				
	Skudesnaes ..	1012·7	39	E	1	o	1009·3	-1	36	-1	-	0	-	m	2	-	39	34				
	Færder (X'iania Fjord)	1015·4	34	NE	4	o	1013·3	0	32	0	ENE	5	-	o	2	-	34	32				
	The Scaw (Skagen)	1012·3	34	ENE	3	o	1008·8	-3	34	0	ENE	4	-	o	4	-	36	32				
	Blaavands Huk	1007·3	34	ESE	3	o	1002·3	-2	34	+2	E	3	-	o	4	-	37	32				
	Haparanda ...	1021·2	28	SW	2	o	1020·0	0	28	+1	SSW	2	-	o	*	1	28	27				
	Hernösand ...	1022·7	30	-	0	o	1021·1	0	30	+3	-	0	-	c	*	1	32	27				
	Stockholm ..	1020·3	30	E	4	o	1017·9	0	30	-2	ESE	2	-	o	*	-	32	28				
	Wisby	1018·0	28	SE	2	b	1015·7	-1	28	-2	ESE	2	-	o	*	-	34	25				
	Karlstad	1017·6	32	E	2	o	1016·2	-1	28	-6	E	2	-	o	*	-	34	27				
	Petrograd (3 p.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1002·4	36	NNE	2	r	1001·0	0	37	+1	WNW	1	-	r	1	5	39	36				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1002·7	41	S	3	c	1003·3	0	39		S	2	*	o	2	-	46	37				
	La Hève	1002·5	39	NNE	2	m	1005·1	*	33	-4	S	2	*	b	1	-	48	30				
	Ushant	1002·6	45	SW	5	c	1000·0	*	45		SW	5	*	o	7	7	46	39				
	Brest (St. Mathieu)	1002·4	46	SE	2	b	1001·0	-2	45	0	W/SW	4	*	o	3	2	50	43				
	Rochefort (Ile d'Aix)	1001·5	41	SSW	1	o	1005·1	+2	38	-3	SSE	2	*	bc	*	4	46	36				
	Biarritz	1001·3	45	S	3	c	1004·2	+1	39	-2	ENE	2	*	c	5	-	50	37				
	Paris	1003·3	37	S	1	o	1005·3	0	30	0	-	0	-	f	*	-	45	30				
	Belfort	1004·6	32	SW	2	f	1009·3	*	28		-	0	*	f	*	?	37	27				
	Lyons							*					*		*							
	Nice	1006·7	41	-	0	b	1006·1	-1	43		E	5	*	r	4	-	50	34				
	Perpignan ..	1003·7	45	-	0	b	1002·1	0	39	-2	NE	2	-	r	*	2	62	34				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1004·0	37	S	3	r	1006·6	+6	34		NW	1	-	o	*	S	39	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*		*							
	Rome																					
	Azores (Horta, 8 a.m.)	1031·0	*	NW	3	bc							*									
	Madeira (Funchal)	1023·7	61	N	3	c	1022·6	0	57	+3	N	3	N.	bc	3	-	64	54				

GALES.

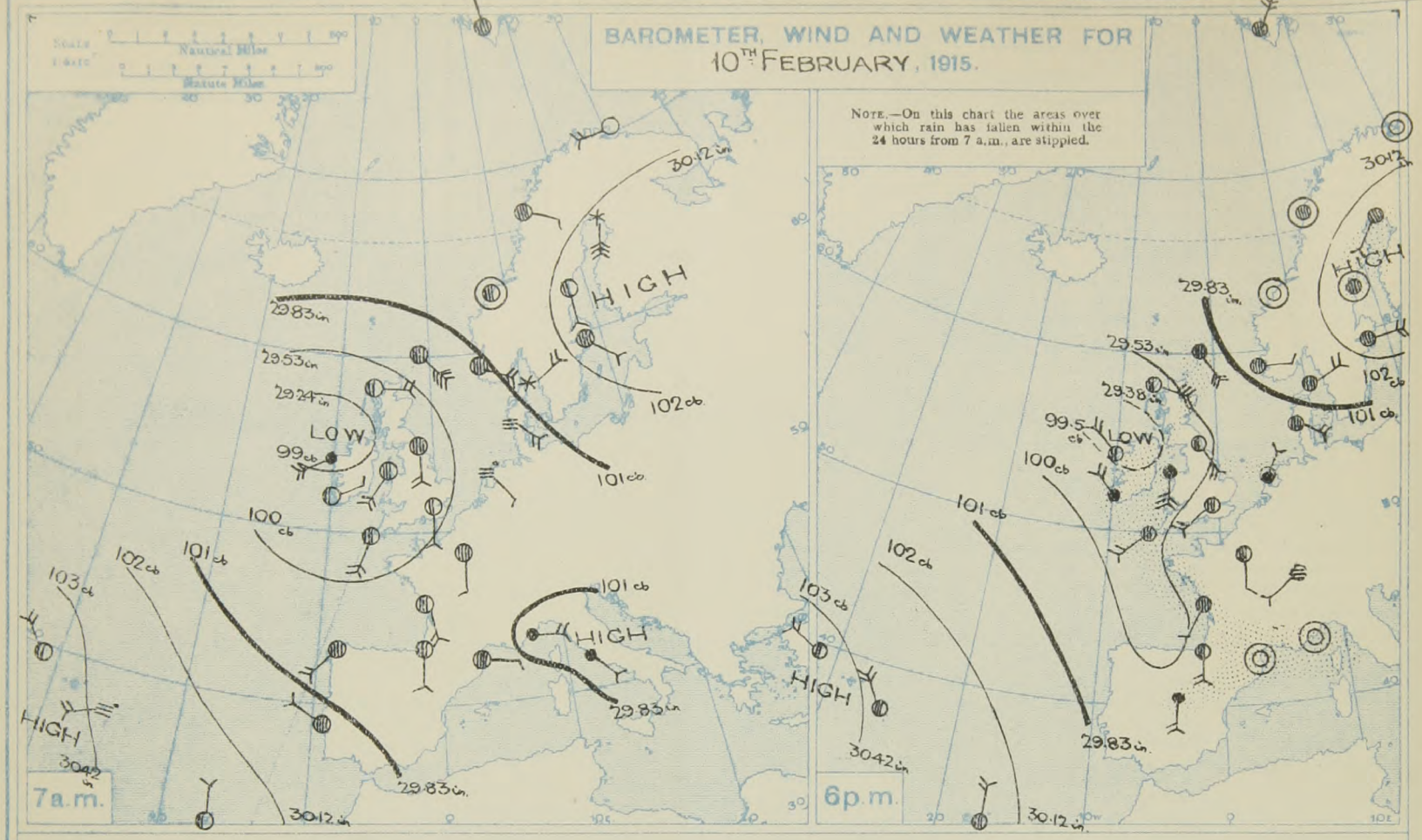
Duration and Extreme Force in British Islands.

Lerwick

10h 8a.m.-3p.m. SE. 8.

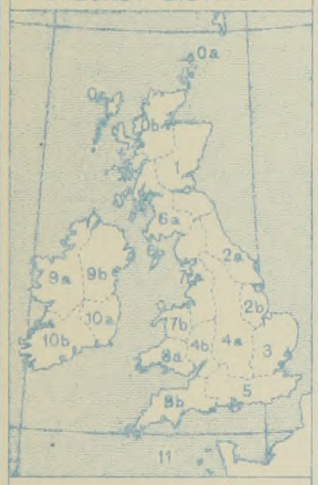
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 10TH FEBRUARY, 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 11

0 {a, b}, 1 — Light to moderate South-Easterly to Easterly breezes; fair to dull, local mist, some rain or snow in places; moderate temperature.

2 {a, b}, 3, 4 {a, b}, 5 — Calms and light variable airs, becoming Southerly and freshening a little, then drawing Westerly or North-Westerly; much mist or fog at first, then fairer temporarily, rain or snow showers later; rather cold.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b} — Same as Nos. 2 to 5.

8 {a, b}, 9 {a, b}, 10 {a, b} — Light breezes between West and North; fair to dull, some rain or snow showers; rather cold.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 11TH FEBRUARY, 1915.

GENERAL INFERENCE.

The shallow western depression will occasion variable weather conditions as it moves eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

101·5 cb.
L O W
29.97 in.
101·5 cb.
32°
30.12 in.
102 cb.
H I G H
fair
30.12 in.
101 cb.
100·5 cb.
40°
Bar.
29.83 in.
29.68 in.
Steady
100 cb.
Bar. Falling
L O W
Steady
29.68 in.
29·53 in.
H I G H
40°
100·5 cb.
101 cb.
Bar. Rising
29.68 in.
101·5 cb.
102 cb.
29·83 in.
HIGH
29·97 in.
30·12 in.

Inches.
31
30
29

SCALE 1 : 2 x 10⁶
Nautical Miles 0 100 200 300
Statute Miles 0 100 200 300

Normal Temperature of the Sea

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

Scale of Tints for FEBRUARY

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. Thursday 11th February 1915.

REPORTS FOR YESTERDAY.

10th February, 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.
Faerder	1018·4	34	SSE	4	o	1017·2	+1	32	-4	ENE	5	cr	o	2	–	36	30
Lisbon	1017·2	52	NNW	3	r	1013·7	-3	48	-2	WNW	2	–	o	•	2	54	48
Rome	1017·1	52	SE	1	o	1011·5	+3	52	+7	SE	2	–	r	•	7	55	48
Horta						1013·7	o	55	o	N	1	•	bc	2	–	61	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	5	48	34	or	or	0·0
Scotland.	Banff	4	43	36	bc	r.c.bc	3·3
Scotland.	St. Andrews	1	42	36	•	•	5·7
Eng. N.E.	Harrogate	1	42	32	o	c.o	0·0
Eng. N.E.	Scarborough	•	43	33	o	o	1·0
Eng. N.E.	Skegness	0·3	45	36	b	b.bc	7·4
Eng. N.W.	Morecambe	2	44	35	bc.b	b.bc	5·0
Eng. N.W.	Blackpool	1	45	33	bc	bc.c	2·4
Eng. N.W.	Southport	2	46	33	c.bc.c	c.o	3·3
Midlands.	Buxton	3	41	32	bc	bc	1·1
Midlands.	Leamington Spa	1	49	35	bc	bc	5·2
Midlands.	Malvern	2	47	34	bc	bc.b	5·5
Midlands.	Ross-on-Wye	1	43	36	bc	bc	3·6
Wales.	Rhyl	3	47	35	bc	cbc	5·4
Wales.	Colwyn Bay	2	47	36	bcp	bcp	4·4
Wales.	Llandudno	1	49	36	bc	p	4·0
Wales.	Aberystwyth	4	45	37	or.c	c.o	1·2
Wales.	Tenby	4	47	33	bc.o	bc	5·2
Wales.	Swansea	5	47	38	bc	b.bc	4·6
England. E.	Cromer	0·3	50	33	b	b.bc.c	6·4
England. E.	Lowestoft	–	46	37	b.bc	bc.c	5·4
England. E.	Felixstowe	–	46	37	b	bc	6·5
England. E.	Walton-on-Naze	–	45	38	b	b.bc.c	6·0
England. E.	Southend-on-Sea	1	51	35	b	b.cm	6·8
England. S.E.	Tunbridge Wells	–	49	35	b.bc.b	b.bc.c.b	6·2
England. S.E.	Margate	1	49	36	b	bc c	4·5
England. S.E.	Ramsgate	2	47	36	bc	bc.r.c	4·8
England. S.E.	Folkestone	2	47	37	bc.b	cb	4·0
England. S.E.	Hastings	3	49	37	or.b	b	6·4
England. S.E.	Bexhill	–	49	38	b	b	7·0
England. S.E.	Eastbourne	6	50	37	b	b	6·0
England. S.E.	Seaford	1	48	39	bc	bc	7·2
England. S.E.	Brighton	1	48	39	b.bc	bc.b	8·3
England. S.E.	Worthing	1	50	40	b	b	8·2
England. S.E.	Littlehampton	1	46	35	b.bc.b	b	7·4
England. S.E.	Bognor	1	48	40	bc	b	7·4
England. S.E.	Southsea	6	49	38	or	hzo	2·3
England. S.E.	Bournemouth	1	48	37	oh.o	o.b	1·2
England. S.W.	Weymouth	1	50	39	cp	bcy	3·0
England. S.W.	Torquay	1	47	37	o.c	bc	3·1
England. S.W.	Paignton						
England. S.W.	Falmouth	1	48	38	bc	bcp	3·3
England. S.W.	Penzance	2	48	37	b	bc.r	5·4
England. S.W.	Newquay	5	41	36	bcr	bcp	3·8
England. S.W.	Ilfracombe	5	48	38	bc	bc	5·2
England. S.W.	Weston-super-Mare	1	50	36	b.bc.b	b.bc	5·4

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.)	65	100	6·3	48	30	2·3	–	b	c	fbc
City (Bunhill Row)	•	•	3·1	•	•	•	•	•	•	•
Westminster (St. James's Pk.)	71	97	5·0	49	29	28	–	bc	r.bc	bfbc
Camden Sq. (Brit. Rainfall)	66	93	4·7	49	29	26	–	b	b.c	•
Hampstead (Reservoir)	•	93	5·7	47	33	17	–	bc	bcfbc	bf
Richmond Park	•	•								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	92	5·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
527 Joules	15·3 Milliwatts.	34 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.	4	41	32	21	ors	ors.bc	bc.s	1·6
Manchester ,,				•				
Birmingham ,,					•			
Oxford to 9 p.m.	•							
Teignmouth to 9pm.								•
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·3	48	37	30	b.bc	bcm	b.spl	•

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

11th & 12th Feb. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·20 / 7·18	12·7	4·54
Greenwich	7·24 / 7·22	12·14	5·4
Wick	7·57 / 7·54	12·26	4·54
Valencia	8·6 / 8·4	12·55	5·46

NOTES ON YESTERDAY'S WEATHER.

Temperature reached 50° or 51° at a few stations. Generally there was very little rain, but Pembroke had 21 mm. Good sunshine records were the rule, more than 8 hours at Brighton and Worthing

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. 43

Friday, 12th February 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 ...	1006·2	41	NE	3	bc	1002·3	0	39	-1	ESE	3	-	c	3	2	41	39	c	c	bc. cp	*
	Deerness ...	1004·7	38	ESE	3	r	997·9	*	39	-1	ESE	4	-	pqr	3	6	43	37	oc. o	or	r. p	0·0
	Stornoway ...	1002·4	39	E	1	bg	996·6	-3	37	-1	SE	1	-	o	1	-	44	34	f	bg	b. bc. o	6·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1001·6	38	NE	2	b	995·3	-3	33	-1	NNW	1	-	odrs	*	1	41	32	bg. bc. o	o. c. bc	bc. or. s	0·7
	Eskdalemuir ...	1001·2	35	NNE	1	bc	994·5	+3	34	+2	-	0	-	ox	*	0·2	39	32	cmx. o	o. c	c. od. ox	0·0
	Malin Head ...	1000·5	39	SSE	3	bcm	995·7	-2	35	-1	SSW	2	-	bmx	2	-	44	34	bc	bm	bmx	5·1
	Blacksod Point	999·4	36	ESE	2	bcg																*
	Valencia ...	999·3	43	NNW	1	bc	994·6	-2	38	-4	-	0	-	o	3	1	46	35	bcp	bc	c. b. o	4·5
	Roche's Point	999·5	40	NW	3	c	997·3	*	34	-4	NW	2	-	b	2	-	42	33	bc. c	c. bc. b	c. bc	*
	Birr Castle ...	999·5	34	NNW	1	o	995·8	*	31	+1	-	0	-	f	*	-	35	28	o	o	f	0·0
	Donaghadee ...	999·7	40	ESE	3	bcm	996·8	-2	36	-4	W	1	-	cm	1	0·1	43	35	bcm	bcm	bcm	*
	Liverpool (Bidston)	999·9	40	ESE	2	o	996·1	-2	34	0	SSW	1	-	o	1	-	45	33	bm	bm	ox	5·0
	Holyhead ...	999·0	42	S	2	bg	996·2	-2	37	-3	S	2	-	bcmsc	1	Trace	49	33	bc. b	b. bc. b	bc bcm	8·4
	Pembroke (St. Ann's)	997·9	39	E	3	bc	996·5	0	36	+2	E	2	-	cg	2	0·4	43	33	cg po	c	bc	1·6
	Scilly (St. Mary's)	997·5	41	NW	4	cpq	995·5	-1	40	-1	NW	2	NW	c	4	5	45	39	cphq	cpq	cq	2·4
	Falmouth ...	997·4	38	NW	3	bc	995·7	0	32	-5	NW	1	-	bc	3	·	47	32	bc	c. bc	bc	5·0
	Jersey (St. Aubin)	997·5	41	SE	4	cg	995·1	*	34	-3	NW	3	NW	cm	2	21	42	32	cp. os	asp. cg	dbh c	0·0
	Portland Bill ...	997·1	41	SSE	5	c	996·6	0	37	-6	ENE	3	-	o	4	3	48	36	cp	c. o	cr. bc	*
	Dungeness ...	1001·3	40	SSE	3	o	996·5	-2	38	+6	SE	3	-	o	3	0·3	45	32	f. c. bc	bc	bc. cp	*
	Dover	1001·2	40	S	2	bc	997·4	-3	36	+1	SE	2	SE	oc	3	0·2	45	34	m. b. bc. b	b. bc	bc. c. od	3·8
	Wick	1003·8	40	SE	3	r	997·1	-4	40	-2	ESE	4	-	r	4	5	42	38	cmg p	cmp. r	cmp. r	*
	Nairn	1002·8	35	E	1	m	995·8	*	34	+2	-	0	-	ocbc	1	3	38	31	cm	cm	m. d. o	1·0
	Aberdeen ...	1002·3	39	ENE	3	r	994·5	-4	37	-2	ENE	3	-	r	4	7	41	37	op	or	or	0·0
	Leith	1001·3	40	ENE	1	o	993·9	-2	37	+1	NW	2	-	d	*	4	42	36	cg. dp. o	cg	cd	*
	Tynemouth ...	999·9	39	NNW	3	o	993·4	-4	35	-5	NW	3	-	cmr	4	6	41	34	o	o	cmr	*
	Spurn Head ...	1000·3	36	WNW	1	f	996·2	-2	39	0	WNW	1	-	f	4	4	40	35	cmr f	f	f	0·0
	Yarmouth ...	1000·7	41	-	0	f	998·4	0	33	-1	NW	1	-	c	0	-	43	32	f	f	b. o	0·0
	Clacton-on-Sea	1000·6	41	SSE	1	bc	997·0	-2	39	+4	SE	2	s	c	1	-	45	34	o. cm	cm. bc	bc. b. c	5·3
	Nottingham ...	1000·5	32	-	0	f	997·1	*	29	0	SW	1	-	f	*	0·2	34	26	fg	fg	fg	0·0
	Bath	999·5	39	SE	3	o	997·6	*	28	-4	NE	1	-	b	*	-	43	28	b. bc	bc. c. o	o. bc. bm	3·4
	London (Kew Obsy.)	1001·1	37	S	1	b	997·1	-1	33	+4	ENE	2	E	cmx	*	0·1	44	28	fo fo f bcm	bcm bm	bm. bc. cmr	3·3
ICELAND, FAEROE, &c.	Spitsbergen ...	1018·4	-13	-	0	b	1017·3	*	-24	-20	SE	1	*	b	*	*	-4	-27				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1010·3	28	WSW	3	o	1015·3	+3	27	0	NNW	5	-	bc	5	*	28	19				
	Bodö	1017·2	25	E	2	b	1013·2	-1	28	-4	E	4	-	b	2	-	32	21				
	Christiansund	1009·0	37	SE	1	b	1005·5	0	37	+3	E	1	-	b	3	·	39	34				
	Skudesnaes ..	1004·4	41	-	0	o	1004·6	0	37	+1	SE	4	-	o	2	-	41	34				
	Færder (Xiania Fjord)	1010·7	30	NE	6	o	1010·3	0	30	-2	ENE	5	-	o	2	-	32	28				
	The Scaw (Skagen)	1006·1	32	NE	5	o	1007·9	+1	32	-2	E	3	-	o	2	-	34	30				
	Blaavands Huk	1000·0	34	E	3	m	1004·3	0	34	0	S	2	-	o	3	Trace	34	32				
	Haparanda ...	1019·8	25	SW	2	o	1019·7	0	19	-9	W	2	-	o	*	-	27	19				
	Hernösand ...	1019·1	28	N	2	c	1017·1	0	27	-3	N	2	-	c	*	-	30	25				
	Stockholm ...	1014·7	28	E	2	o	1011·9	0	28	+2	ENE	2	-	o	*	4	32	29				
	Wisby	1012·2	28	SE	4	s	1009·7	+2	34	+6	S	2	-	o	*	2	24	25				
	Karlstad	1012·7	28	NE	2	o	1012·3	0	27	-1	-	0	-	o	*	-	30	25				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1000·8	39	SSW	3	o	1001·0	0	34	-3	ESE	1	-	bc	1	2	41	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1001·3	37	S	3	bc	996·7	-2	34	-5	ESE	3	*	o	2	1	43	32				
	La Hève	999·1	36	SSE	3	c	996·8	*	36	+3	SE	2	*	m	2	4	43	33				
	Ushant							*					*									
	Brest (St. Mathieu)	999·0	60	NNW	3	bc	997·3	-1	45	0	WNW	3	*	bc	3	4	52	37				
	Rochefort (Ile d'Aix)	1001·7	46	SW	4	c	999·1	0	45	+7	W	3	*	o	*	4	48	37				
	Biarritz	1006·3	48	W	4	o	1003·6	0	46	+7	SW	3	*	c	4	·20	52	39				
	Paris	1003·1	34	-	0	c	997·3	0	34	+4	SSE	2	-	o	*	4	37	30				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1002·4	40	E	1	r	1002·6	+2	38	-5	E	4	*	r	6	44	46	37				
	Perpignan ..	1003·5	45	NW	4	o	1006·1	+2	34	-5	WSW	2	-	c	*	10	48	32				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1011·6	50	W	5	o	1004·4	-3	52	+13	SW	5	-	o	4	2	52	39				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1031·0	*	SSE	4	o							*									
	Madeira (Funchal)	1024·3	63	N	2	bc	1023·9	0	55	-2	N	3	N	b	3	-	66	55				

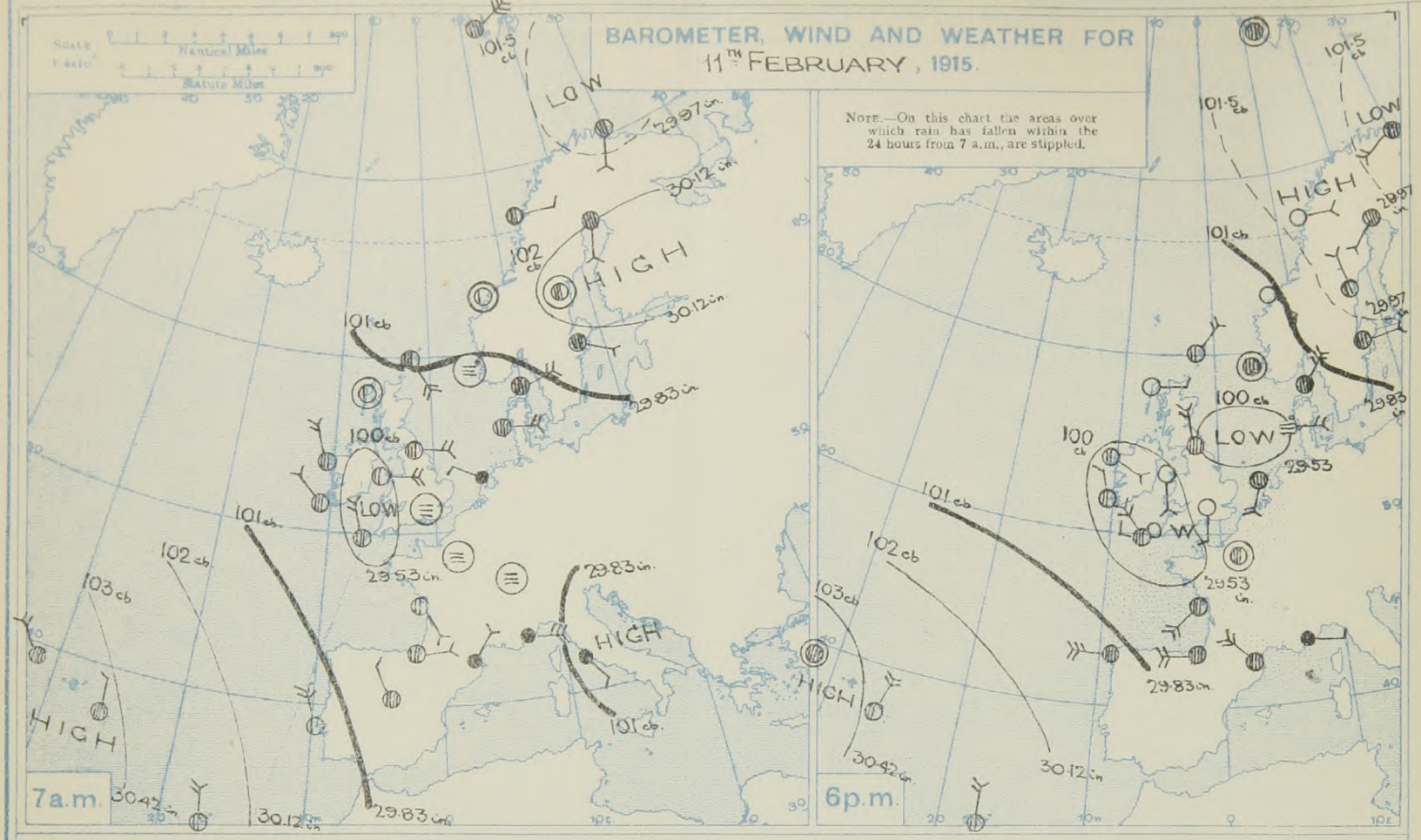
RAINFALL.

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

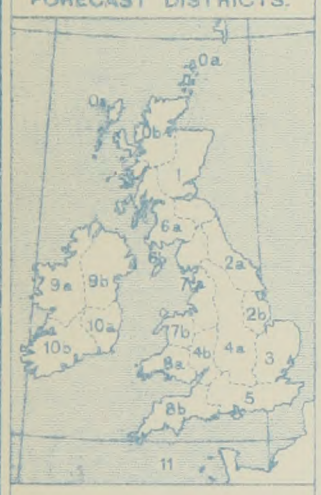
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

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



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 11

0 {a b} Light to moderate Easterly breezes; unsettled, with rain or snow, fair intervals later; cold.

1 } Light breezes, mainly North-Westerly to Westerly;
2 {a unsettled, with rain or snow, fair intervals later; cold.

2 {b } Light variable breezes, mainly Easterly; cloudy
3 } to dull, mist or fog in places, local showers, fair
4 {a intervals; rather cold.
4 {b
5 }

6 {a b} Same as Nos. 1 and 2a.

7 {a Light variable breezes; cloudy to dull, some rain
7 {b or sleet, fair intervals; cold.

8 {a Light breezes, mainly North-Westerly; fair or
8 {b fine to cloudy, local rain or sleet; cold.

9 {a b} Same as No. 7.

10 {a b} Same as No. 8.

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

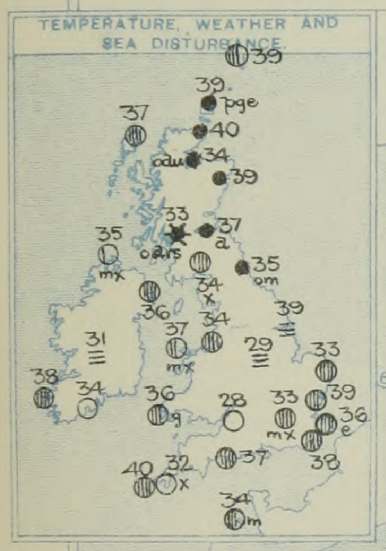
FURTHER OUTLOOK.

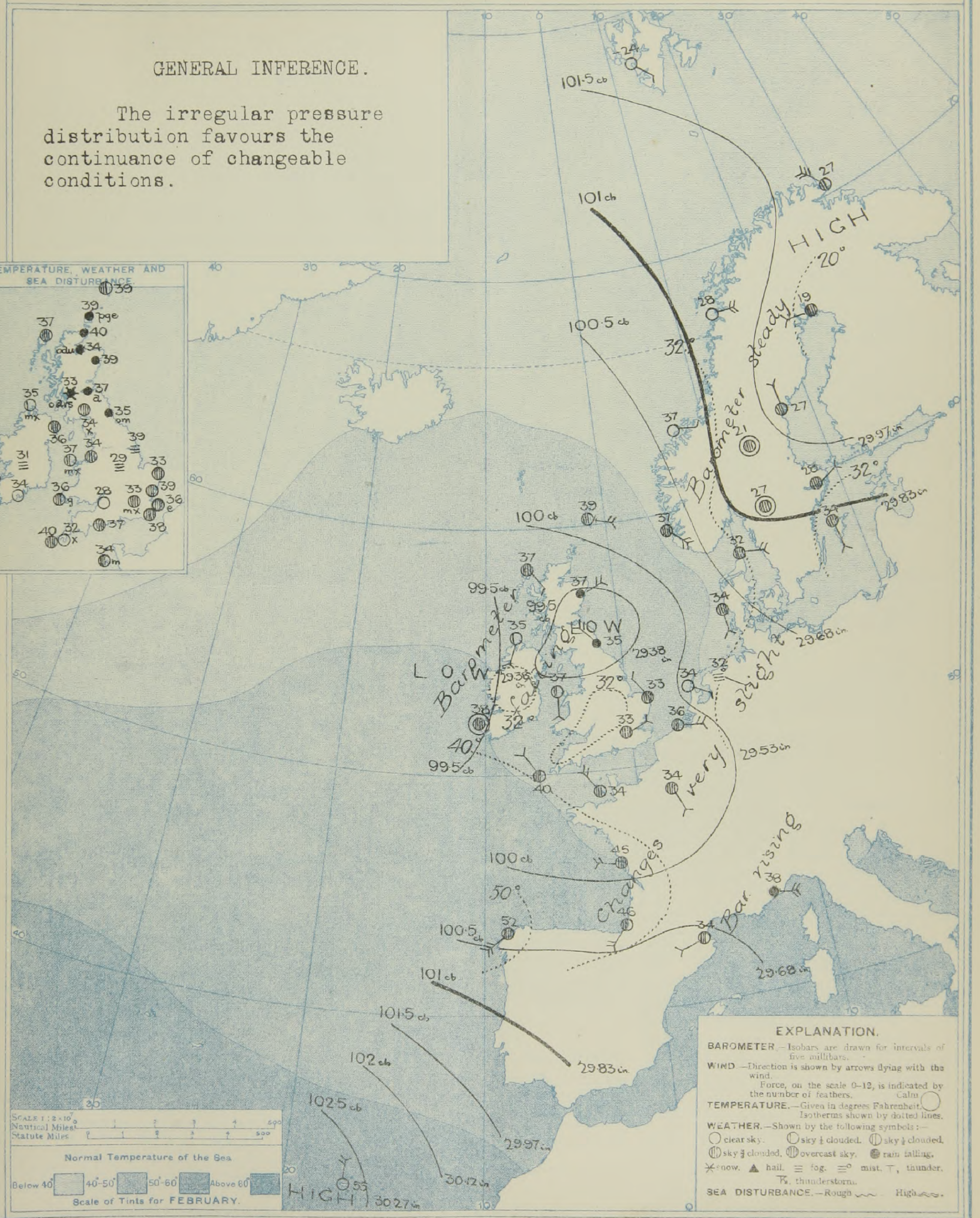
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 12TH FEBRUARY, 1915.

GENERAL INFERENCE.

The irregular pressure distribution favours the continuance of changeable conditions.





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. ⊤s thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ~~

DAILY WEATHER REPORT. Friday, 12th February, 1915.

REPORTS FOR YESTERDAY.

11th February 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.
Malin Head	995·0	37	NE	2	om	1000·3	+2	36	0	SSE	3	-	c	3	1	39	33
Corunna	1001·3	46	WSW	4	0	1011·8	+4	39	-2	W	1	-	T	6	18	50	36
Rome	1010·9	52	SW	1	0	1010·6	-1	52	0	SE	1	-	T	*	-	55	50
Horta						1032·0	+1	57	+2	NNE	3	*	b	2	1	66	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	4	48	34	b	b	4·8
Scotland.	Banff	1	40	32	0.c	d.ord	0·2
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	40	32	0	0.c.c	0·3
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	-	45	32	0.c	cm	1·9
Eng. N.W.	Morecambe	-	43	35	bc	bc	4·2
Eng. N.W.	Blackpool	-	44	33	bc.m.bc	c.bm	3·3
Eng. N.W.	Southport	-	44	31	c.bc	bc.c	3·0
Midlands.	Buxton	-	40	28	bm	bm	0·1
Midlands.	Leamington Spa	-	49	29	b.bc	bc	4·4
Midlands.	Malvern	-	43	33	b.bc	bc.c	3·9
Midlands.	Ross-on-Wye	-	46	34	bcm	bc.csc	‡
Wales.	Rhyl	-	43	33	bc	bc.c.bc	7·0
Wales.	Colwyn Bay	-	45	32	bc	bc	8·3
Wales.	Llandudno	-	48	37	b	b	7·5
Wales.	Aberystwyth	1	45	38	or.c	bc.b	4·3
Wales.	Tenby	11	46	35	bc.o	bc.o	0·3
Wales.	Swansea	9	41	37	r	r	0·0
England. E.	Cromer	-	42	34	0.c	0.c	0·0
England. E.	Lowestoft	-	44	34	c	cm	0·0
England. E.	Felixstowe	-	47	35	cm	bcm	5·5
England. E.	Walton-on-Naze	-	45	34	cm.bc	bc.b	4·7
England. E.	Southend-on-Sea	-	47	34	m.b	b	7·0
England. S.E.	Tunbridge Wells	-	47	31	m.b	bc.c.b	6·5
England. S.E.	Margate	-	48	36	0.c	b.bc.b	3·1
England. S.E.	Ramsgate	-	46	34	m.bc	bc	4·6
England. S.E.	Folkestone	-	45	37	0.bc.c	bc	2·6
England. S.E.	Hastings	-	46	36	b	b.bc	6·0
England. S.E.	Bexhill-on-Sea	-	49	39	b	b	6·7
England. S.E.	Eastbourne	-	45	30	b	bc.0	5·2
England. S.E.	Seaford	-	44	33	b	bc	4·7
England. S.E.	Brighton	-	45	31	bc.c	c.0	4·9
England. S.E.	Worthing	-	45	31	bc	c	4·0
England. S.E.	Littlehampton	-	48	33	bc.b	b.bc	4·3
England. S.E.	Bognor	0·3	42	33	bc.b	c	3·9
England. S.E.	Southsea	-	42	31	0	0	2·3
England. S.E.	Bournemouth	-	42	36	c.0	0	1·2
England. S.W.	Weymouth	-	42	42	c	cg	0·0
England. S.W.	Torquay	26	43	37	0	hoc bc	0·5
England. S.W.	Paignton	19	44	35	or.o.pk	0	0·6
England. S.W.	Falmouth	5	46	37	bc	c.bc	5·0
England. S.W.	Penzance	10	45	39	bcp.r	bcp.r	2·8
England. S.W.	Newquay	10	42	37	cp	cp	1·2
England. S.W.	Ilfracombe	5	44	35	cp.o.c	c.bc	3·1
England. S.W.	Weston-super-Mare	1	42	37	bc.c	2.0.c	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.)	65	92	5·7	47	30	23	-	b	b	bc.ox
City (Bunhill Row)	*	*	1·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	89	3·5	46	33	30	-	f bc	bc	bcf.f
Camden Sq. (Brit. Rainfall)	72	95	1·1	44	28	24	-	f.bc	bc c	*
Hampstead (Reservoir)	*	88	0·7	43	39	16	-	bcx	bcx	c
Richmond Park	*	*	6·8							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.)	65	85	3·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
483 Joules	139 Milliwatts.	33 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.	6	42	33	32	osr	rq30	c.0	*
Darwen to 9 p.m.	-	43	30	27	bcwf	bc	bc o.m	2·1
Manchester ,,	-	47	34	*	bc	c.bc o	o50	3·0
Birmingham ,,	-	41	31	24	*	0.c.b	c.b	4·7
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·1	45	33	22	bm.bof	of.c.o	c.bc b	*

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

12th & 13th Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·18 / 7·16	12·7	4·56
Greenwich	7·22 / 7·20	12·14	5·6
Wick	7·54 / 7·52	12·26	4·57
Valencia	8·4 / 8·2	12·55	5·46
		12·55	5·48

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 45° at a number of stations, but remained as low as 34° at Nottingham. Rain, sleet or snow fell in many localities, 21 mm. at Jersey, where a thunderstorm occurred. Sunshine varied greatly, none at some stations, over 8 hrs. at Colwyn Bay and holyhead.

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. 44 { Saturday 13th February 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 ...	998.2	41	SE	6	cm	996.5	0	40	+1	SE	5	~	c	5	7	42	36	c	c	cqmp	*
	Deerness ...	990.5	38	ESE	6	opq	992.2	*	39	0	SSE	6	-	c	4	5	42	37	p.o.c.bc	bc.opg	op.c	1.6
	Stornoway ...	989.6	36	ENE	1	bc	987.8	0	38	+1	SSE	5	-	c	4	2	39	33	o.bp	o.bp bc	b.bc.cq	0.0
	Castlebay (Barra Isd.)																					
	Glasgow ...	992.1	35	WSW	1	od	988.1	-2	30	-3	ENE	4	-	c	*	4	37	29	omrs	ors.d.r	or.by.c	0.0
	Eskdalemuir ...	993.6	33	S	2	o	988.5	-3	29	-5	-	0	-	o	*	4	35	25	oc.os	s	oo.bm.c	0.0
	Malin Head ...	991.0	37	SW	2	bcmx	980.5	-5	39	+4	ESE	6	-	ogq	4	-	42	33	bmx	bcmx	ogq	7.3
	Blacksod Point	988.1	39	SSW	3	cm													bc	bcm		*
	Valencia ...	989.1	42	S	1	o	967.8	-4	38	0	N	5	-	r	5	16	45	37	cp	cp	or	1.5
	Roche's Point	991.6	42	NW	2	o	963.6	*	41	+7	E	6	-	r	6	16	44	31	bc.o	op.om	o.b f.r	*
	Birr Castle ...	990.7	39	SSE	1	c	972.5	*	38	+7	NE	3	-	r	*	3	42	30	bc	bc.c	o.or	4.2
	Donaghadee ...	991.7	38	SW	2	bcm	981.8	-5	38	+2	SE	6	~	ogmq	5	0.1	42	33	bcf	bcf	cfqgmq	*
	Liverpool (Bidston)	994.9	36	SE	1	b	983.6	-9	34	0	E	4	E	oq	3	-	41	31	om	bcm	c.oz	3.7
	Holyhead ...	993.5	40	SSW	5	c	978.4	-8	40	+3	E	6	-	ogmq	5	0.1	45	37	bc.bg	bc.b.bc	b.bc.o	6.0
	Pembroke (St. Ann's)	994.7	42	SE	4	c	968.0	-16	41	+5	SE	8	-	oqr	6	12	43	36	cq	c	c	6.8
	Scilly (St. Mary's)	993.3	44	SSE	3	orm	967.9	-13	46	+6	SSW	6	W	omqp	7	8	49	39	bc	c	omrq/p	5.4
	Falmouth ...	994.7	42	S	3	b	970.0	-13	45	+13	SW	6	-	bc	6	15	47	32	bx.b	bc	rq	7.1
	Jersey (St. Aubin)	997.3	43	SW	2	b	977.8	*	44	+10	S	6	-	r	5	5	47	34	m.op.b	bc.b	bm.or	5.5
	Portland Bill ...	996.5	42	SE	2	b	976.5	-18	42	+5	SE	8	SE	or	6	6	45	38	c.bc	b	bc.c.or	*
	Dungeness ...	997.0	38	NNE	1	c	986.6	-10	41	+3	SE	7	SE	bcq	6	1	41	35	op.bcp	f.bc	b bcq	*
	Dover	998.4	37	-	0	c	987.7	-10	39	+3	SE	5	SE	o	6	0.1	39	30	m.bc.c	cdm.c	bcm.od	0.0
	Wick	989.0	40	SE	4	c	991.5	+1	40	0	SSE	4	-	bc	4	3	42	37	omrbp	omp.c	op.bcm	*
	Nairn	989.5	34	-	0	od	989.7	*	32	-2	E	1	-	cm	2	6	37	32	r.d	r.rg	d.acm	0.0
	Aberdeen ...	990.9	37	S	1	c	991.6	-1	39	+2	SE	4	-	c	4	2	41	36	or.c.o	o.cm	c.op.c	0.6
	Leith	992.1	36	WSW	2	r	989.1	-1	31	-6	E	1	-	b	*	7	38	31	r	r	d	*
	Tynemouth ...	994.0	38	S	3	odm	989.0	-5	38	+3	SE	3	-	og	3	5	38	33	orm	otm	ogm	*
	Spurn Head ...	997.3	39	SW	2	bc	989.7	-4	37	-2	SSE	5	-	c	4	-	41	33	bcf	bc	bc	4.3
	Yarmouth ...	996.8	38	E	1	o	992.0	-8	38	+5	SE	4	SE	ow	2	-	40	32	o	or	o.b	1.3
	Clacton-on-Sea	996.2	38	SW	1	cm	988.8	-9	40	+1	ESE	4	SE	c	3	1	40	33	c.or.o	o.cm	cm bcx	0.6
	Nottingham ...	996.4	33	SSE	1	b	987.1	*	31	+2	E	3	E	bmx	*	-	41	26	fm.o.c	c.b	b	1.5
	Bath	997.3	30	E	1	f	979.1	*	39	+11	E	5	E	r	*	2	41	26	m.b	bm.f	m.b.orq	4.6
	London (Kew Obsy.)	997.5	37	ENE	1	bcm	985.6	-12	35	+2	ESE	3	-	om	*	0.1	40	25	rw.fcfg.of	of.orn.bcm	bcm.fr.orw	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...	1016.3	-19	-	0	b	1018.0	*	-22	+2	-	0	*	b	*	*	-19	-24				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1009.1	23	SW	6	o	1008.8	-3	25	-2	W	4	-	o	2	*	27	21				
	Bodö	1011.0	30	E	5	b	1007.0	-2	27	-1	NE	4	-	br	2	-	30	23				
	Christiansund	1006.6	37	-	0	b	1002.9	-2	34	-3	-	0	-	b	3	-	41	34				
	Skudesnaes ..	1006.9	36	E	4	o	1000.6	-1	36	-1	ENE	4	-	o	2	-	37	36				
	Færder (X'tiania Fjord)	1010.0	27	NE	5	s	1004.8	-2	28	-2	NNE	6	-	s	2	?	30	27				
	The Scaw (Skagen)	1006.6	32	E	4	s	1001.9	-4	30	-2	E	3	-	s	3	Trace	34	30				
	Blaavands Huk	1004.7	32	ESE	2	m	999.7	-4	32	-2	ESE	2	NE	s	3	Trace	37	28				
	Haparanda ...	1019.5	21	W	2	o	1015.3	-3	14	-5	SW	2	-	s	*	Trace	23	14				
	Hernösand ...	1017.1	25	NE	4	c	1011.8	-3	18	-9	N	2	-	s	*	Trace	27	16				
	Stockholm ...	1011.5	28	ENE	2	o	1004.7	-3	30	+2	ENE	2	-	o	*	3	30	27				
	Wisby	1008.6	34	ESE	2	o	1003.3	-1	34	0	SE	2	-	f	*	2	36	32				
	Karlstad	1011.8	27	NNE	2	o	1005.6	-3	25	-2	NE	2	-	s	*	2	27	21				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	999.0	39	SSE	3	r	995.5	-2	34	0	SSE	1	-	o	1	1	41	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	997.2	38	S	3	o	989.1	-11	36	+2	ESE	4	*	o	2	-	39	34				
	La Hève	997.7	39	SW	3	o	983.1	*	37	+1	SE	4	*	r	3	1	45	34				
	Ushant	993.2	48	SW	5	o	977.2	*	48		W	6	*	c	6	5	48	43				
	Brest (St. Mathieu)	997.9	46	S	3	o	978.4	-5	48	+3	W	5	*	c	5	8	52	41				
	Rochefort (Ile d'Aix)	1000.3	45	SW	1	bc	990.0	-6	49	+4	SSW	2	*	r	*	12	49	45				
	Biarritz	1003.0	48	SW	3	r	997.2	-3	47	+1	SSW	5	*	o	8	1m	50	45				
	Paris	999.8	39	SSW	2	o	992.4	-8	39	+5	S	3	-	r	*	1	43	32				
	Belfort	1004.8	36	WSW	2	c	1003.1	*	36		ENE	2	*	c	*	?	47	36				
	Lyons							*					*		*							
	Nice												*		*							
	Perpignan ..	1005.0	43	-	0	b	1005.9	0	36	+2	WSW	2	-	o	*	-	55	34				
	Sanguinaire ...	1007.9	50	NNE	2	c	1006.6	*	47		E	2	*	b	4	-	54	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1005.6	52	WSW	3	r	1001.0	+1	50	-2	W	6	-	r	5	17	64	50				
	Madrid (8 a.m.)	1008.7	45	W	3	o	1008.8	0	45		SW	3	W	o	*	?	46	43				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1021.6	*	SW	5	c							*									
	Madeira (Funchal)	1025.1	61	N	3	o	1025.1	0	55	0	NW	3	N	o	3	-	63	55				

GALES.

Duration and Extreme Force in British Islands.

Pembroke
13th 6a.m.-7a.m. S.E. 8

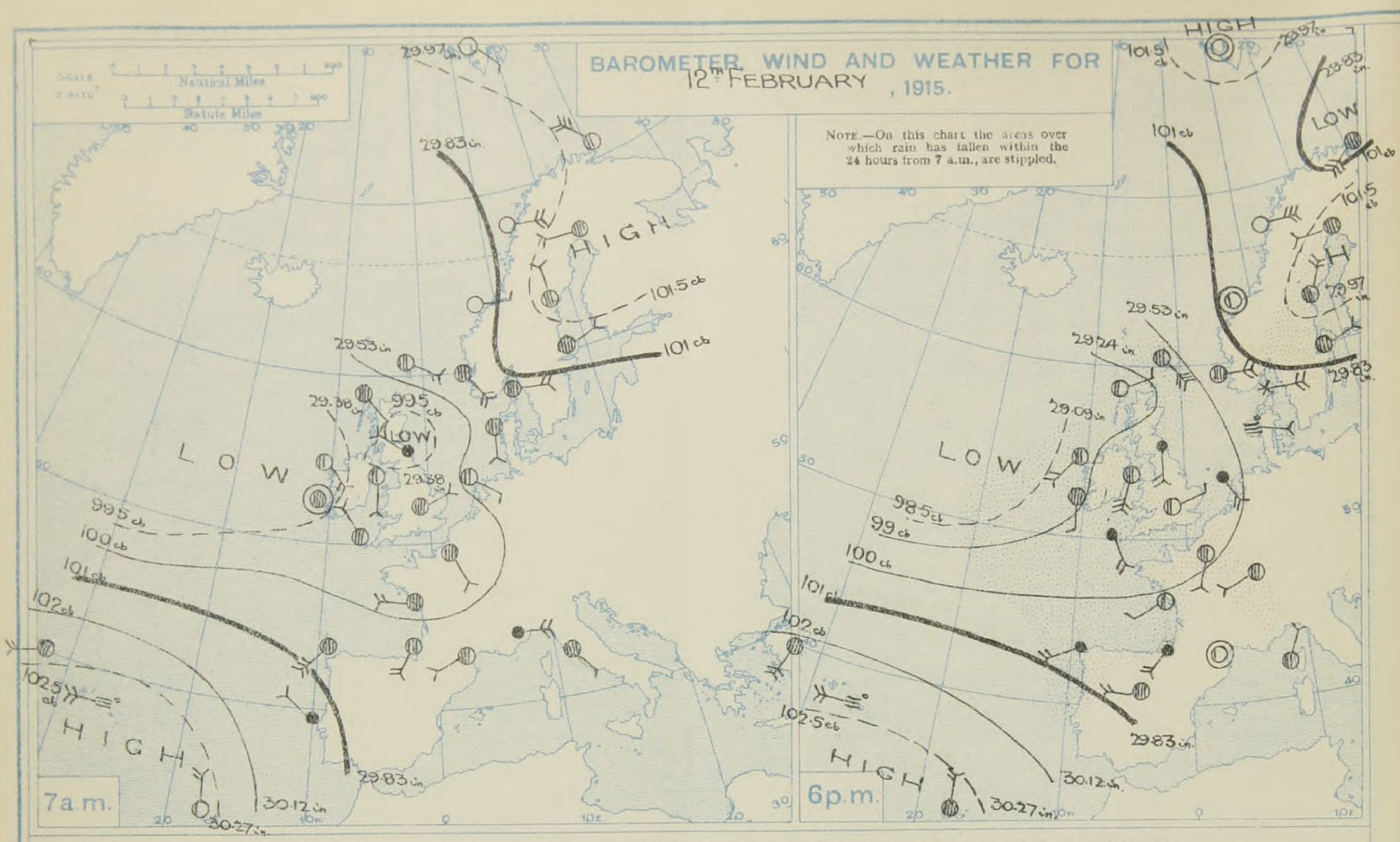
Scilly
13th 3a.m.-4a.m. SSE. 8

Falmouth
gale early morning from SE

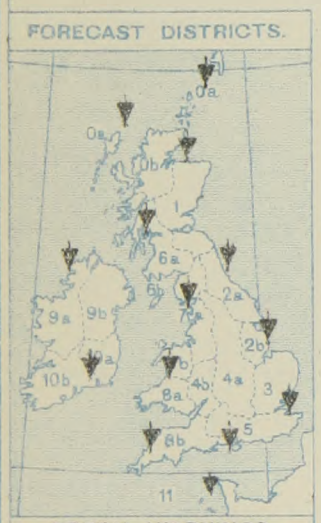
Portland
13th 6a.m.-7a.m. SE, 8

* 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 12TH FEBRUARY, 1915.



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.

South Cone hoisted this morning.

Western Channel and Bay 11

0 {a b} 1 {a b} 2 {a b} Increasing squally South-Easterly to Easterly winds, strong to a gale; cloudy to dull, some rain and snow; cold, frost in places.

3 4 {a b} 5 Increasing squally South-Easterly to Southerly and Westerly winds, strong to a gale; dull, unsettled, rainy, hail or sleet in places, fairer later; moderate temperature.

6 {a b} Same as Nos. 0 to 2.

7 {a b} Squally Easterly to Northerly winds, strong to a gale, cloudy to dull, some rain and snow; cold, frost in places.

8 {a b} Squally Southerly to Westerly and North-Westerly winds, strong to a gale; dull, unsettled, rainy, some hail, sleet or snow, fairer later; temperature moderate to cold.

9 {a b} Same as No. 7.

10 {a b} Squally North-Easterly to Northerly and North-Westerly winds, strong to a gale at times, moderating later; dull, rainy, sleet or snow in places; cold, frost locally.

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., SATURDAY, 13TH FEBRUARY, 1915.

GENERAL INFERENCE.

Under the influence of a deep depression off Queenstown, unsettled, windy weather will be general.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

HIGH

LOW

Barometer falling

Barometer steady

Barometer rising

29·97 in.
101·5 cb
101 cb
29·83 in.
29·68 in.
29·53 in.
29·38 in.
29·24 in.
29·09 in.
28·94 in.
28·79 in.
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
102·5 cb
29·12 in.
29·27 in.
29·42 in.
29·57 in.
29·72 in.
29·87 in.
30·02 in.
30·17 in.
30·32 in.
30·47 in.
30·62 in.
30·77 in.
20°
32°
40°

Millibars. 31 30 29

Inches.

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 FEBRUARY.

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 February 13th, 1915.

REPORTS FOR YESTERDAY.

12th February, 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	999·7	36	ESE	2	bc	994·6	-4	36		SSE	3	5	bc	3	-	44	34
Lisbon	1015·8	50	NNW	4	0	1010·3	+3	54	+6	NW	2	-	T	*	3	54	48
Rome	1008·4	57	SE	3	0	1008·2	0	54	+2	SE	1	-	0	*	7	59	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	-	47	28	or	or	0·0
Scotland.	Banff	5	41	36	r.cp	bcp.c	1·2
Scotland.	St. Andrews	6	36	33	*	*	0·0
Eng. N.E.	Harrogate	2	37	33	or	o	0·0
Eng. N.E.	Scarborough	*	39	34	o	o	0·0
Eng. N.E.	Skegness	-	43	31	c.bc	bc	7·3
Eng. N.W.	Morecambe	-	38	33	3	3	0·0
Eng. N.W.	Blackpool	-	41	31	omgc	bc	0·1
Eng. N.W.	Southport	1	41	31	ohr.c	bc.b	0·5
Midlands	Buxton	-	37	26	b	b	1·0
Midlands	Leamington Spa	-	49	26	bc	bc	6·8
Midlands	Malvern	-	40	27	b	b	7·6
Midlands	Ross-on-Wye	-	43	24	fbc	b	3·2
Wales.	Rhyl	-	45	29	c.bc	bc	6·3
Wales.	Colwyn Bay	-	45	32	bc	bc	7·2
Wales.	Llandudno	-	45	35	b	b	6·5
Wales.	Aberystwyth	-	44	31	c.b	c.o	7·5
Wales.	Tenby	0·3	46	35	bc.o	bc	3·8
Wales.	Swansea	0·3	43	33	o	bc.u	1·8
England. E.	Cromer	-	44	31	b.bc	bc.o.c	7·4
England. E.	Lowestoft	0·3	43	32	o	o/p	0·2
England. E.	Felixstowe	-	43	32	c	c	1·3
England. E.	Walton-on-Naze	-	41	34	ogdh.c	c.bc.c	0·7
England. E.	Southend-on-Sea	1	40	32	om.c	c.o.c	0·4
England, S.E.	Tunbridge Wells	1	41	33	om.c	c.o	1·0
England, S.E.	Margate	0·3	41	33	c/o	c	0·0
England, S.E.	Ramsgate	-	38	34	o.c	c	0·0
England, S.E.	Folkestone	0·3	39	35	o.c	bc.o	0·0
England, S.E.	Hastings	1	40	36	op.o	o.bc	0·0
England, S.E.	Bexhill-on-Sea	trace	42	37	c	c	0·0
England, S.E.	Eastbourne	5	39	36	odr	o.bq	0·0
England, S.E.	Seaford	2	40	35	c	c	0·7
England, S.E.	Brighton	-	42	36	bc.c	c.o.c.bc	0·8
England, S.E.	Worthing	-	43	37	bc	bc	0·4
England, S.E.	Littlehampton	0·3	42	31	c.bc.b	b.bc.b	3·4
England, S.E.	Bognor	-	45	36	b	b	3·5
England, S.E.	Southsea						
England, S.E.	Bournemouth	-	42	28	b	bc	5·2
England, S.W.	Weymouth	2	45	33	b	bq	8·7
England, S.W.	Torquay	5	43	37	bc	bc.c.o	2·6
England, S.W.	Paignton	8	43	36	c	c	0·5
England, S.W.	Falmouth	-	47	32	bc.b	bc	7·1
England, S.W.	Penzance	-	47	32	bc	bc	6·5
England, S.W.	Newquay	-	46	31	bc	cv.bcv	6·0
England, S.W.	Ilfracombe	11	45	33	bc.c	bc	4·5
England, S.W.	Weston-super-Mare	15	44	30	bm.b	b	6·0

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.)	83	93	0·5	40	29	22	1	c.o.c	o.c	b,ocf.or
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	89	0·0	40	31	28	1	bc.o	o	bca.or
Camden Sq. (Brit. Rainfall)	79	97	0·5	41	29	25	1	c	c,bc	*
Hampstead (Reservoir)	*	98	0·9	39	28	13	1	bc.o.c	bc.oc	or
Richmond Park	*	*	0·1							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	77	88	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
151 Joules	4·3 Milliwatts.	20 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.	1	34	31	27	bca.ou	ou.s	bc	0·0
Manchester ,,				*				
Birmingham ,,	-	40	29	21	*	bc	bc.b	6·2
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	40	37	24	b.bcm	of	o.o.c	*

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

Feb. 13th & 14th, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·16 / 7·14	12·7 / 12·7	4·58 / 5·0
Greenwich	7·20 / 7·18	12·14 / 12·14	5·8 / 5·10
Wick	7·52 / 7·50	12·24 / 12·26	5·0 / 5·2
Valencia	8·2 / 8·0	12·55 / 12·55	5·48 / 5·50

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many places. Rain fell generally, 16 mm. at Roche's Point. Bright sunshine varied greatly, none at a number of stations, 7 hours to 8½ hours at several.

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. 45 Sunday, 14th February 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 ...	996.5	39	SE.	4	bc	994.6	−2	37	−3	N	2	–	c	2	4	42	34	bc	bc	csp	*
	Deerness ...	992.5	38	ESE	5	bc	993.9	*	37	−2	N	5	E	bcp	3	3	43	36	cp.c	cph.bc	bc.c.bc	1.8
	Stornoway ...	989.4	39	E	4	bc	995.3	+4	38	0	NE	4	–	b	4	–	41	36	bc	bc	b	2.7
	Castlebay (Barraisd.)																					
	Glasgow ...	983.1	38	ENE	4	o	989.7	+6	36	+6	ENE	4	NE	o	*	1	39	29	c.bc.c	c.bc.co	orhp.c	4.1
	Eskdalemuir ...	981.9	34	ENE	5	o	986.1	+4	34	+5	NE	6	NE	cpb	*	Trace	35	27	o	o	c.o.c	0.6
	Malin Head ...	980.7	40	NE	7	cmq	989.8	+6	40	+1	NE	5	NE	cq	6	–	40	36	cmq	cmq	cq	0.0
	Blacksod Point	980.7	38	ENE	3	om	990.5	+8	38	+2	ENE	2	E	cm	3	4	39	34	cmps	om	om.cm	*
	Valencia ...	979.3	39	NW	4	pq	990.2	+6	38	0	NE	1	–	o	3	16	40	36	or	op	op	0.0
	Roche's Point	974.9	39	NNW	5	r	989.1	*	39	−2	NW	4	–	o	4	6	42	37	r	r	r.or.o	*
	Birr Castle ...	971.7	35	NE	3	o	988.0	*	36	−2	NW	2	–	c	*	4	42	30	or	or.o	c	0.0
	Donaghadee ...	977.6	40	E	7	ogmq	987.4	+5	40	+2	NE	5	–	cmq	5	–	41	37	ogmq	ogmq	cgmq	*
	Liverpool (Bidston)	969.3	36	ENE	7	r	979.8	+9	40	+6	NE	4	E	oq	5	3	40	31	orq	odq	oq	0.0
	Holyhead ...	969.1	40	E	8	r	982.8	+7	42	+2	NE	6	–	om	6	2	44	36	o.opdm	op.o.op	op.o.om	0.0
	Pembroke (St. Ann's)	964.8	40	NNW	4	o	981.4	+5	42	+1	N	4	N	oq	4	10	42	39	orq	opq	omq	0.0
	Scilly (St. Mary's)	972.7	42	WNW	9	orm	985.6	+7	43	−3	WNW	7	W	cq	8	6	47	41	omr	omr	omr.cq	0.0
	Falmouth ...	969.9	39	W	9	r	984.2	+7	41	−4	WNW	7	–	o	5	24	46	40	rq.eq	dq rq	rq	0.2
	Jersey (St. Aubin)	976.9	45	SW	8	opq	983.3	*	44	0	W	7	–	opq	5	25	50	40	c.bc	c.opq	bc.opq	3.0
	Portland Bill ...	963.5	42	SW	9	r	975.8	+7	43	+1	WNW	8	–	opq	7	11	44	39	cq	orq	crq	*
	Dungeness ...	976.6	46	SW	8	cq	974.3	+1	42	+1	SW	7	–	rq	7	33	48	39	or.baq	bcq	orq	*
	Dover	978.2	46	SW	7	o	978.3	+1	42	+3	SW	6	SW	r	6	19	48	33	or.o	bc.ce.o	orq	0.7
	Wick	981.8	39	SE	5	o	994.1	+2	39	−1	NE	4	–	c	4	0.3	42	37	bcm	bc.opm	orrp.cm	*
	Nairn	988.7	36	E	2	om	993.3	*	37	+5	ESE	2	–	og	3	0.3	38	31	p.rs.c	omw	omq	0.5
	Aberdeen ...	988.9	40	E	6	o	991.8	+3	37	−2	ENE	5	NE	c	5	2	43	36	op.bcq	c.opq	cgr.cp	0.8
	Leith	983.9	40	E	3	o	988.4	+4	37	+6	E	4	–	p	*	2	41	29	c.cq	o	opq	*
	Tynemouth ...	981.7	40	E	6	o	983.2	+3	40	+2	NE	6	NE	oq	6	–	41	37	crn	ogm	eq	*
	Spurn Head ...	974.8	38	SE	7	o	974.3	+2	39	+2	SE	6	–	oqr	7	14	42	35	c.o	or	orq	0.0
	Yarmouth ...	976.9	42	SSE	5	orm	974.0	0	42	+4	S	4	S	o	3	6	43	37	ormq	ormq	omr	0.0
	Clacton-on-Sea	975.7	44	ESE	5	c	973.0	0	41	+1	SSW	3	SW	o	2	6	45	35	c.or bc	c	c.or	1.1
	Nottingham ...	970.9	38	E	5	o	974.6	*	41	+10	NE	4	NE	r	*	9	42	30	c.crs	sr.o	or	0.0
	Bath	963.5	43	S	4	r	976.6	*	39	0	W	3	W	r	*	23	47	37	r.oq	rq	orq	0.1
	London (Kew Obsy.)	970.6	44	S	5	odq	972.7	+3	40	+5	SW	4	–	or	*	11	47	35	rm.rs.bcq	omw.orq	odq.r.or	0.4
ICELAND, FAEROE, &c.	Spitsbergen ...	1015.0	−15	–	0	b	1012.2	+1	−13	+9	E	4	*	b	*	*	−13	−24				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1007.5	25	NW	2	s	1003.1	−1	23	−2	SE	5	–	s	3	*	25	18				
	Bodö	1001.5	28	E	4	b	997.7	−2	18	−8	E	4	–	b	2	–	27	18				
	Christiansund	997.2	34	–	0	o	994.0	−1	34	o	–	o	–	c	3	Trace	36	34				
	Skudesnaes ..	995.3	32	ENE	2	b	991.7	−1	28	−8	–	o	–	b	1	–	37	28				
	Færder (X'tiania Fjord)	996.3	27	N	6	s	993.0	−1	27	−1	NNE	6	–	o	2	?	28	25				
	The Scaw (Skagen)	994.7	32	ENE	2	s	989.2	−3	32	+2	ENE	3	–	o	3	Trace	32	30				
	Blaavands Huk	991.9	32	SE	2	f	985.3	o	34	+2	SSE	1	–	f	3	1	34	30				
	Haparanda ...	1007.5	12	E	2	o	1000.7	−2	12	−2	N	2	–	s	*	–	14	12				
	Hernösand ...	1003.7	19	–	0	c	998.4	−1	18	o	NE	4	–	s	*	2	19	16				
	Stockholm ...	998.1	30	–	0	m	993.6	0	32	+2	–	o	–	f	*	Trace	32	28				
	Wisby	998.6	34	SE	2	o	993.0	−5	36	+2	SSE	2	–	m	*	–	37	34				
	Karlstad	998.1	28	NE	4	s	993.6	o	27	+2	N	2	–	o	*	2	28	23				
	Petrograd (5 a.m. G.M.T.)	1004.3	34	S	2	o	995.7	o	34		SW	2	–	o	*	5	34	21				
FRANCE, &c.	The Helder ...	982.6	37	ESE	2	r	981.5	o	41	+7	SSE	6	–	r	3	7	41	34				
	Brussels	*	*	*	*	*							*		*							
	C. Gris Nez ...												*									
	La Hève	979.5	41	SW	7	o	982.4	*	41	+4	WSW	7	*	o	8	4	46	37				
	Ushant							*					*									
	Brest (St. Mathieu)	981.6	48	WSW	8	m	988.8	*	50	+2	WNW	7	*	c	7	–	52	28				
	Rochefort (Ile d'Aix)	994.9	48	WSW	7	o	996.8	o	45	−4	W	8	*	o	*	15	52	43				
	Biarritz	1001.9	50	SW	3	r	1004.3	o	46	−1	SW	6	*	r	7	12	48	43				
	Paris	985.2	45	SSE	5	b	989.2	o	41	+2	SSW	6	–	o	*	10	54	39				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1003.9	41	E	5	r	998.7	−6	42	+3	E	1	*	r	4	47	50	39				
	Perpignan ..	1003.0	46	SW	1	o	1003.8	+3	45	+9	WSW	3	–	o	*	Trace	48	36				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1005.2	51	WSW	6	o	1009.7	+2	46	−4	WSW	5	–	o	5	10	57	41				
	Madrid (8 a.m.)														*							
	Lisbon (8 a.m.)	1011.9	54	NW	5	r	1017.8	+1	50	−4	NW	3	–	o	*	9	57	48				
	Gibraltar							*					*									
	Rome	1011.9	50	N	1	o	1009.5	o	48	+5	SE	1	–	o	*	2	52	43				
	Azores (Horta, 8 a.m.)	1021.9	*	N	3	o	1023.0	o	53	−3	NNE	3	*	o	3	5	61	52				
	Madeira (Funchal)	1023.9	63	W	4	c	1024.8	o	57	+2	NW	3	–	bc	3	–	64	55				

GALES.

Duration and Extreme Force in British Islands.

Malin
14th 3am. E 8 in squalls.

Holyhead.
13th between 7am-6pm. E 9, gusts 21 mps.

Pembroke
13th 7am-3pm SE 8.

Falmouth.
13th 3am - during early am 14th W 9

Scilly.
13th 8am - 14th 4am W 10 at 2pm gusts 35mph at 2pm.

Jersey.
13th 3pm - Midt SW 3 between 3pm-6pm

Portland Bill
13th 7am - 14th 7am. SW 8.

Dungeness.
13th 3pm - 14th 6pm SSW 10 at 3pm squalls force 11

Dover.
13th 6pm - 6am SW 10 at 10pm.

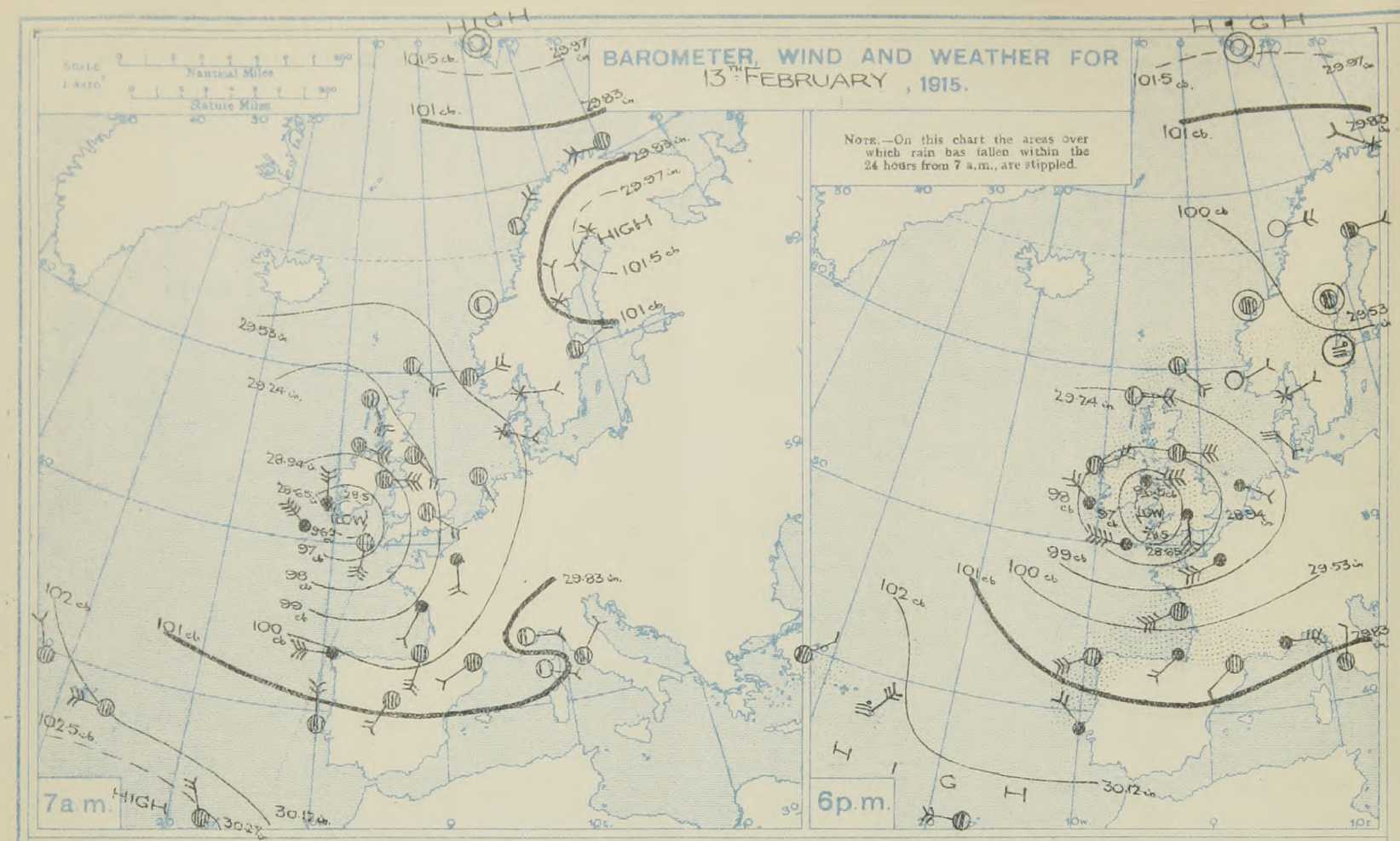
Aberdeen.
13th 8pm. - squalls E 8 mps (S).

Yarmouth
13th 11am - 3pm SE 8.

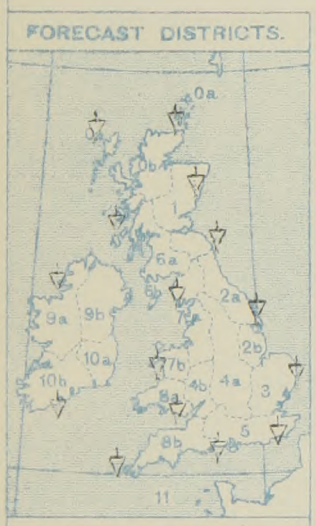
London (Kew)
13th 4.50 squall S 8
" 11.15pm - 11.45pm SW 8 squalls

* 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 13TH FEBRUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.



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 Yesterday morning

0	a	Squally North-Easterly to Northerly winds, strong to a gale at times in places; cloudy, unsettled, some rain and snow; temperature moderate to cold
	b	
1		
2	a	
	b	
3		Squally Southerly to South-Westerly and North-Westerly winds, strong to a gale at times, dull and unsettled, with rain, some sleet or snow later; temperature moderate to cold.
4	a	
	b	
5		
6	a	Same as Nos. 0 to 2.
	b	
7	a	
	b	
8	a	Squally Northerly and North-Westerly winds, strong to a gale at times, moderating later; cloudy to dull, some rain, sleet or snow; temperature moderate to cold.
	b	
9	a	Same as Nos. 0 to 2.
	b	
10	a	Moderate Northerly to Westerly breezes; cloudy to dull, some rain, sleet or snow locally, fair periods; cold
	b	
Western Channel and Bay	11	

FURTHER OUTLOOK.

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

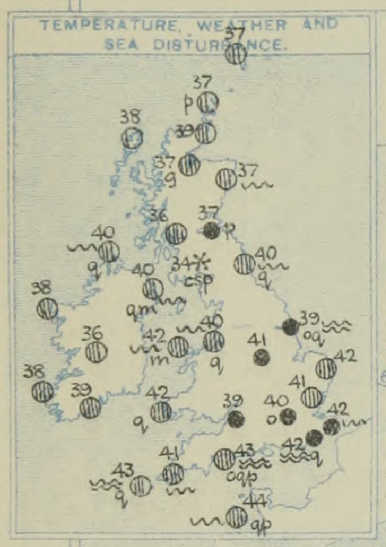
Millibs. Inches.
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

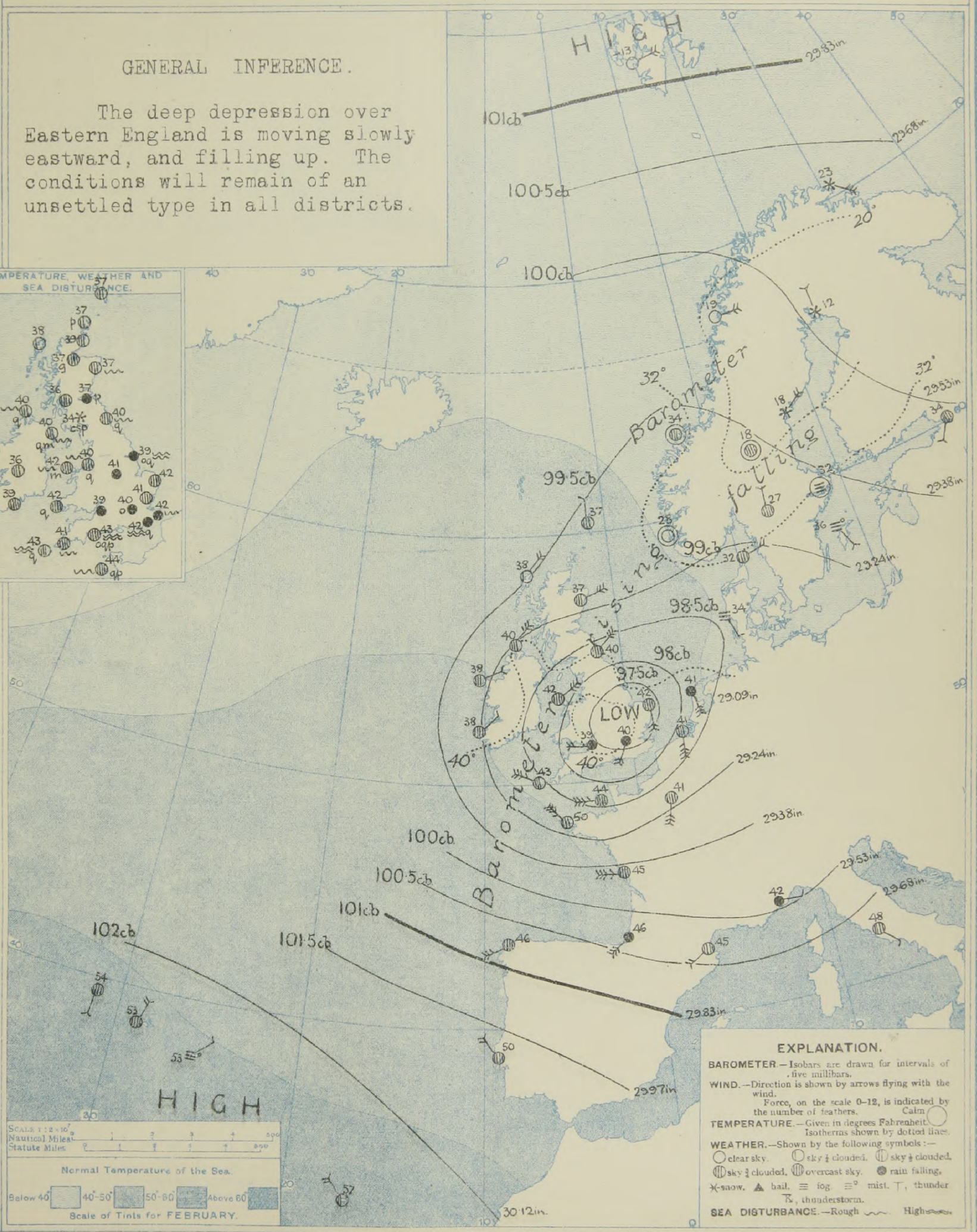
SYNOPTIC CHART FOR 7 a.m., SUNDAY, 14TH FEBRUARY, 1915.

GENERAL INFERENCE.

The deep depression over Eastern England is moving slowly eastward, and filling up. The conditions will remain of an unsettled type in all districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





Inches.
31
30
29

Scale 1 : 2 × 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 40° | 40°-50° | 50°-80° | Above 60°

Scale of Tints for FEBRUARY.

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, 14th February 1915.

REPORTS FOR YESTERDAY.

13th February 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.	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 Point	992·6	[37]	SSW	3	bc	977·4	−4	36	0	SE	3	SE	omr	3	1	44	34
Nice	1008·6	43	–	0	b	1011·9	+2	39	−15	E	2	*	bc	4	–	50	34
Lisbon	1013·7	55	NNW	3	0	1013·1	+2	54	0	WSW	4	–	0	?	Trace	67	52
Rome	1006·7	46	N	1	r	1010·3	+1	43	−11	NE	2	–	0	*	22	57	43
Horta.	.	.	.	.	.	1019·0	+2	56	−1	NNE	1	–	r	5	11	63	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	1	42	31	bcp.c *	bcp *	2·2
Scotland.	St. Andrews						
Eng. N.E.	Harrogate	6	37	24	o	rs.r	0·0
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	4	42	31	o	r.o	0·0
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	–	41	32	c.o	c.o	0·0
Eng. N.W.	Southport	0·3	39	31	o	o.c.or	0·0
Midlands.	Buxton	4	35	27	cs	cs	0·0
Midlands.	Leamington Spa	6	42	26	r	r	0·0
Midlands.	Malvern	11	41	31	r.o	or	0·1
Midlands.	Ross-on-Wye	9	43	33	rsq	r	0·0
Wales.	Rhyl	9	45	31	ors	o	0·0
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	1	42	36	r.o.c	c.o	3·5
Wales.	Tenby	18	43	38	bc.o	bc.or	0·1
Wales.	Swansea	11	45	38	r	r	0·0
England, E.	Cromer	6	39	31	o.cr	r.o.cd	0·0
England, E.	Lowestoft						
England, E.	Felixstowe	8	44	34	or	bcq	1·0
England, E.	Walton-on-Naze	1	46	33	orq	c bc.o.c	0·7
England, E.	Southend-on-Sea	4	47	32	roq bc	ber.bc	1·0
England, S.E.	Tunbridge Wells	11	48	30	or	c.or	0·0
England, S.E.	Margate	8	49	33	or	bc	1·4
England, S.E.	Ramsgate	9	?	31	r	bcq.o	0·9
England, S.E.	Folkestone	10	48	33	or	bc.o	0·7
England, S.E.	Hastings	5	49	33	b.or.bc	bc.o	2·0
England, S.E.	Bexhill-on-Sea	10	48	34	r.o	bc.or	3·0
England, S.E.	Eastbourne	11	50	29	orq	b.o.bcq	2·7
England, S.E.	Seaford	11	50	32	or.o	o	2·3
England, S.E.	Brighton	11	48	31	c.or	bc.or	2·4
England, S.E.	Worthing	10	45	31	bc	bcq	2·7
England, S.E.	Littlehampton	9	48	*	c.bc.b	b.bc.c	2·7
England, S.E.	Bognor	7	48	33	r.bcph	r	2·3
England, S.E.	Southsea						
England, S.E.	Bournemouth	13	48	36	or	or	0·0
England, S.W.	Weymouth	14	48	38	or.bc	r.o	0·6
England, S.W.	Torquay	14	47	41	c	r.or	0·3
England, S.W.	Paignton	18	48	36	c.cp	cp	0·0
England, S.W.	Falmouth	25	46	39	rq.cq	dq.rq	0·2
England, S.W.	Penzance	16	47	41	cp.r	or	1·0
England, S.W.	Newquay	16	46	38	cp.cq	cqp	0·1
England, S.W.	Ilfracombe	15	46	37	cp.c	c.or	0·5
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 9 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.)	70	92	0·3	48	36	34	12	or c	or	or
City (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	94	0·6	49	37	35	9	r.bc	d.r.op	cr.o
Camden Sq. (Brit. Rainfall)	88	95	0·2	47	36	37	9	or	–	*
Hampstead (Reservoir)	*	98	0·0	45	31	28	6	ofr	or	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.)	72	93	0·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
208 Joules	5·9 Milliwatts.	36 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.	11	42	37	35	bc.orq	grq	grq	*
Darwen to 9 p.m.	1	35	29	26	bc.ou	ou	ours	0·0
Manchester ,,	2	38	32	*	oc	or	or.c.bc	0·2
Birmingham ,,	6	40	30	26	c	o.os	s.r	0·0
Oxford to 9 p.m.	*	44	32	24	bm.o or	or.rs.r.c	or	*
Teignmouth to 9pm.	20	48	42	37	or	c.or	or	0·0
Plymouth ,,	20	48	39	–	orq	oiq	oq	0·0
S. Kensington (Museum Grounds to 6 p.m.)	6	48	33	24	b.o.or	or.c	crsprq	*

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

13th 14th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.14 / 7.12	12.7 / 12.7	5.0 / 5.2
Greenwich	7.18 / 7.16	12.14 / 12.14	5.10 / 5.12
Wick	7.50 / 7.48	12.26 / 12.26	5.2 / 5.4
Valencia	8.0 / 7.58	12.56 / 12.56	5.50 / 5.52

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° at Eastbourne and Jersey, but locally in the north the maxima were below 40°. Rain or snow fell generally, heavily in many places, up to 33mm. at Dungeness. Many stations had no sunshine, but Glasgow exceeded four 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. 46 — Monday, 15th February, 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 ...	996.9	40	N	2	c	1004.1	+2	42	+5	N	3	N	bc	3	1	42	34	bc	bc	bc	*
	Deerness ...	996.6	39	N	4	cp	1004.4	*	37	0	N	3	NE	bc	3	6	40	36	bcp.c	cp.c	p.o.c.bc	1.6
	Stornoway ...	999.5	39	N	4	o	1006.8	+4	37	-1	N	6	–	oq	5	2	44	35	b	b.op	bcsdq	5.3
	Castlebay (Barra Isd.)																					
	Glasgow ...	997.5	37	NW	2	c	1004.4	+6	33	-3	W	1	–	bz	*	–	41	32	o.bc.b	b.bc.c	c.bc.bc	5.2
	Eskdalemuir ...	995.9	34	N	3	bc	1003.7	+4	32	-2	S	1	N	bc	*	0.2	38	29	o.c	b.s.c	bc.c	5.4
	Malin Head ...	999.3	40	N	4	bc	1005.7	+2	40	0	N	4	N	bcq	5	1	43	39	bc	bc	bcp	5.0
	Blacksod Point	1000.7	40	NW	2	bcm													cm	bcm		*
	Valencia ...	1001.7	42	N	2	bc	1009.1	+2	38	0	-	0	–	o	3	8	44	36	bc	bc	cr	3.6
	Roche's Point	995.1	42	NNW	3	bc	1009.3	*	38	-1	NNW	3	–	o	2	–	44	36	c.bc	bc.c	b.o	*
	Birr Castle ...	999.6	40	NW	1	c	1008.7	*	27	-9	NNW	1	–	bc	*	–	42	26	bc	c	bc	2.6
	Donaghadee ...	997.2	40	NNE	4	bc	1004.2	+5	40	0	WNW	4	NW	beql	3	0.1	41	36	bc	bc	bc.cgfq	*
	Liverpool (Bidston)	993.9	38	NNW	3	b	1003.5	+3	36	-4	NW	3	NW	c	3	–	41	35	oq	o.bc	bcx	0.3
	Holyhead ...	995.8	41	NE	5	bcq	1004.0	+3	42	0	NNW	5	N	c	4	–	44	40	o.c.bc	bc.c.bc	bcph.c	3.1
	Pembroke (St. Ann's)	996.7	41	NE	4	c	1006.4	+5	40	-2	NNW	3	–	bc	3	1	43	37	oq	eq	eq	0.4
	Scilly (St. Mary's)	996.6	43	NW	6	cpm	1008.1	+4	43	0	NW	5	NW	eq	5	1	47	42	cpm	cmp	cp.eq	0.2
	Falmouth ...	995.7	40	NW	3	c	1007.1	+4	38	-3	NNW	2	–	bc	3	4	44	38	oq.os.o	o.cph.c	c.o.bc	0.4
	Jersey (St. Aubin)	991.1	45	W	5	cp	1005.8	*	40	-4	WNW	3	–	b	3	4	48	39	opq	opq.op	op.o	1.7
	Portland Bill ...	991.5	42	NNW	5	c	1004.5	+6	40	-3	NW	4	–	b	4	–	44	38	o.c	c.o	bc.o.c	*
	Dungeness ...	9845	41	WNW	4	o	999.9	+7	33	-9	WNW	3	W	bcx	3	2	43	32	orq	orq	o.c.bcx	*
	Dover	?985.8	40	NW	6	o	?	+6	36	-6	NW	5	NW	c	3	1	41	35	op	op	o.b.bc.c	0.0
	Wick	997.1	38	NNW	3	o	1003.9	+4	39	0	NNW	4	–	bc	4	1	40	33	cm	cm.om	bcm.om	*
	Nairn	997.9	38	ENE	1	o	1004.2	*	36	-1	W	1	–	ou	2	1	39	32	ps.c	u.bc	op	0.7
	Aberdeen ...	996.1	37	NNW	3	c	1003.5	+7	36	-1	NW	3	–	c	4	3	40	34	bc.osp	cps.bc	bc.c	2.8
	Leith	994.9	40	N	2	c	1003.3	+5	37	0	WSW	2	W	c	*	0.1	40	35	c	c	bc	*
	Tynemouth ...	9915	37	N	5	o	1001.0	+3	36	-4	N	3	–	oms	5	8	40	33	cq	eq	cms	*
	Spurn Head ...	?986.9	39	N	8	r	9983	+6	37	-2	NNW	7	–	bcq	6	3	40	35	orq	orq	orq	0.0
	Yarmouth ...	980.9	42	WNW	3	cm	997.9	+8	37	-5	NW	3	NW	omr	2	5	43	36	cmr	cm	cmqr	0.0
	Clacton-on-Sea	982.1	40	WNW	4	o	998.0	+4	36	-5	WNW	4	NW	c	2	3	43	36	or	op	o.c	0.0
	Nottingham ...	990.3	38	N	5	c	1001.3	*	35	-6	WNW	2	W	cm	*	1	41	34	r	o.c	c.b	0.0
	Bath	992.2	42	N	3	o	1004.6	*	33	-6	WNW	1	–	b	*	1	43	31	r.o	o	o.bc.b	0.0
	London (Kew Obsy.)	988.4	40	NW	4	c	1002.2	+5	35	-5	WNW	2	–	c	*	1	42	35	or.od.o	o.c	c.o.c	0.0
ICELAND, FAEROE, &c.	Spitsbergen ...	1011.4	-20	SE	2	b	1009.7	*	-17	-4	NE	4	*	b	*	*	-15	-23				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1001.5	23	ESE	4	o	998.7	o	?	?	W	2	–	c	3	*	23	19				
	Bodö	996.2	19	E	4	b	995.9	o	19	o	E	4	–	c	2	–	21	16				
	Christiansund	996.2	34	E	1	o	998.6	+2	32	-2	NW	3	–	o	3	Trace	36	32				
	Skudesnaes ..	995.1	30	–	o	b	997.9	+1	25	-3	–	o	–	b	o	–	37	25				
	Færder (X'ania Fjord)	994.7	28	NNE	6	o	998.0	+2	27	o	NNE	6	–	o	2	–	28	27				
	The Scaw (Skagen)	990.9	30	NE	4	s	994.9	+1	23	-4	NE	4	–	s	4	3	32	28				
	Blaavands Huk	989.0	36	SSE	1	o	990.6	+2	36	+2	E	1	–	r	2	8	36	32				
	Haparanda ...	998.9	7	N	2	o	997.7	o	7	-5	N	2	–	o	*	Trace	14	5				
	Hernösand ...	997.1	16	N	2	c	999.7	+2	18	o	–	o	–	c	*	1	18	16				
	Stockholm	992.4	32	NW	2	o	997.2	+2	27	-5	NNE	2	–	o	*	6	34	25				
	Wisby	994.4	36	SW	2	c	996.3	+1	34	-2	SE	2	–	c	*	–	39	32				
	Karlstad	994.7	25	N	2	o	998.7	+4	23	-4	NE	2	–	o	*	2	27	21				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	981.3	41	S	4	r	988.0	+5	41	0	NW	3	–	o	3	3	41	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	986.4	41	W	6	o	999.1	+7	37		WNW	5	*	o	5	4	46	37				
	La Hève	992.2	41	W	4	o	1002.0	*	37	-4	NNW	4	*	c	5	3	50	36				
	Ushant							*					*									
	Brest (St. Mathieu)	998.0	50	NW	6	o	1010.4	+5	41	-9	N	2	*	o	5	4	52	39				
	Rochefort (Ile d'Aix)	999.5	45	W	5	c	1007.5	+6	43	-2	NNW	5	*	c	*	2	50	43				
	Biarritz	1006.7	48	W	6	o	1010.9	+4	46	o	WNW	4	*	o	6	6	50	43				
	Paris	992.7	43	SW	4	o	1002.1	+6	37	-4	W	2	–	c	*	Trace	46	37				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1000.6	44	W	4	b	1006.4	+4	40	-2	W	3	*	c	2	Trace	52	40				
	Perpignan ..														*							
	Sanguinaire ...	1003.7	50	WNW	4	m	1006.7	*	46		E	3	*	bc	5	–	54	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1011.8	52	W	6	c	1020.2	+5	48	+2	NW	4	–	r	6	18	52	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1022.3	*	S	4	o	1018.9	-2	60	+7	SSW	4	*	o	4	1	60	53				
	Madeira (Funchal)	1024.0	66	NW	3	o	1026.1	+2	59	+2	NW	3	–	o	3	1	68	59				

GALES.

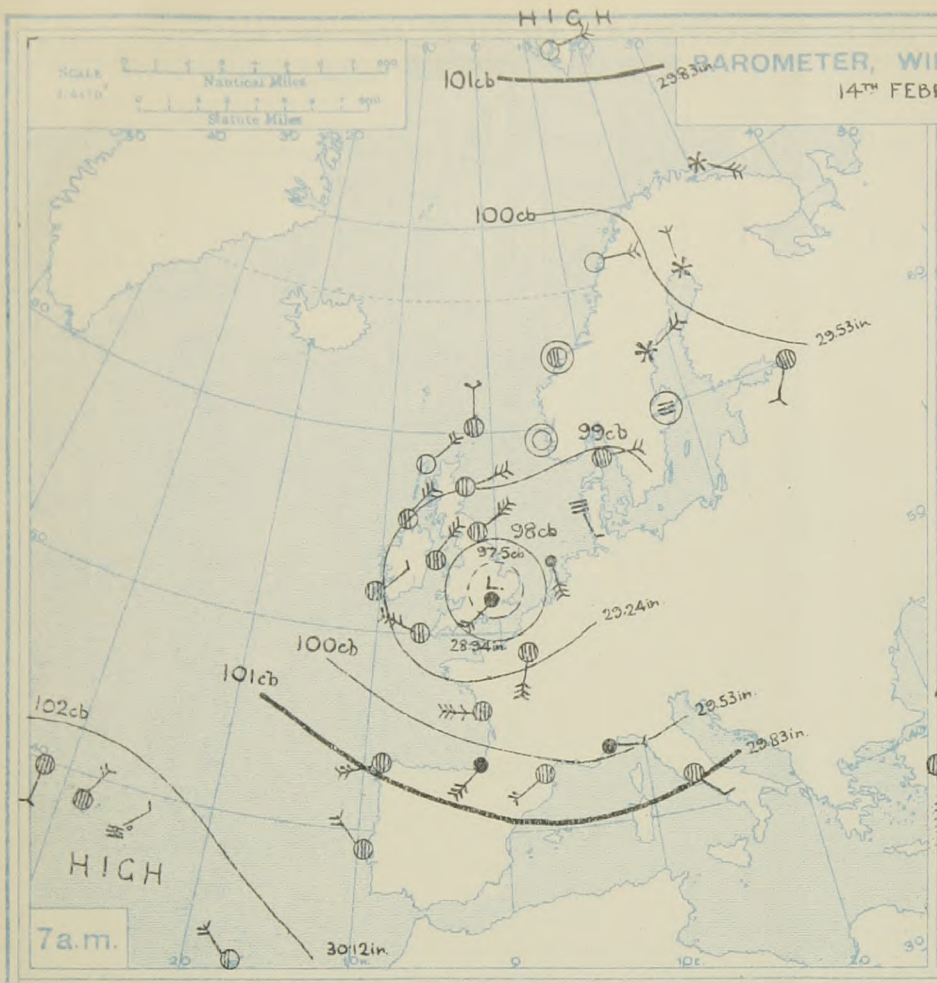
Duration and Extreme Force in British Islands.

Portland Bill
14th 7a.m.–8 am SW 9

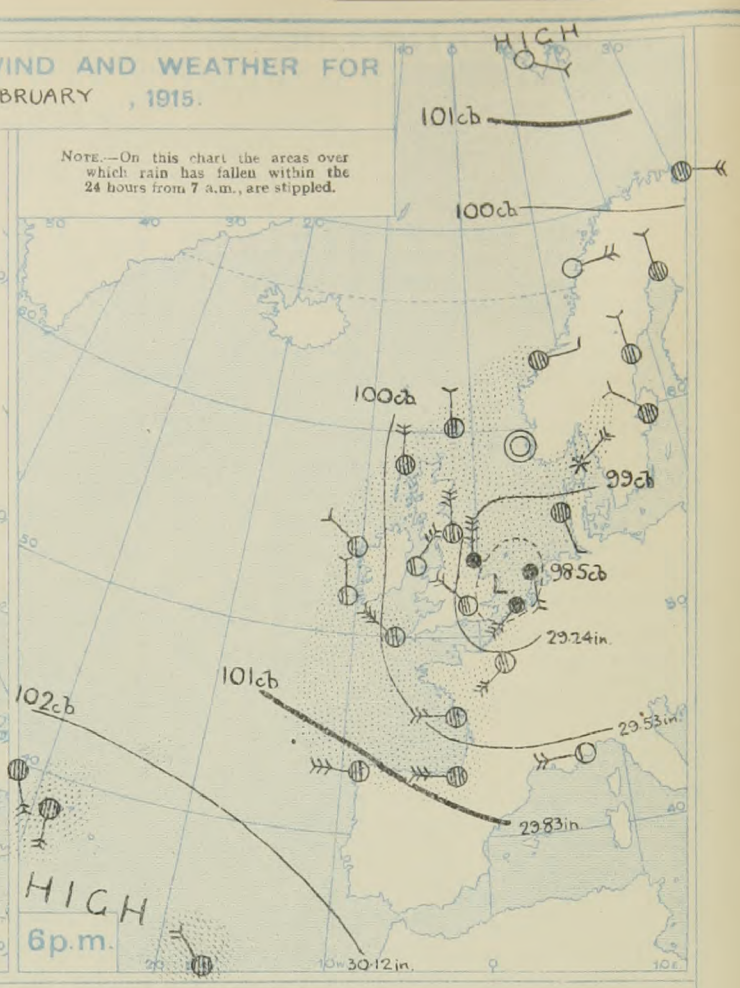
Spurn Head
14th Noon – 10p.m N 8
15th 3a.m N 8.

* 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 FEBRUARY, 1915.

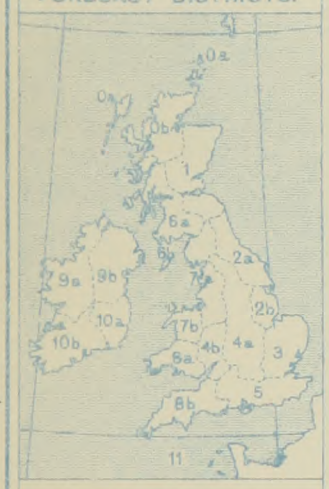


NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

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
Western Channel and Bay	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.

No Warnings Issued.

Light to moderate breezes between North and West; generally fair to fine, but some passing showers of rain or snow locally, and morning mist or fog; cold, night frost in many places.

FURTHER OUTLOOK.

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

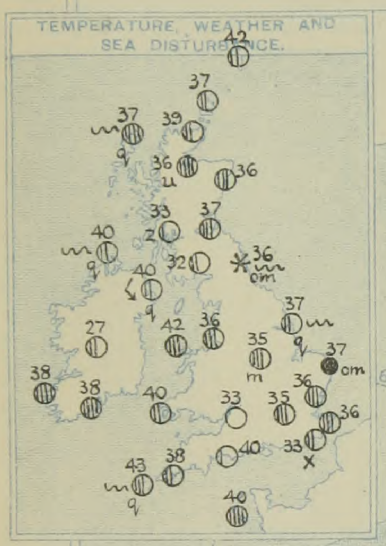
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970
Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., MONDAY, 15TH FEBRUARY, 1915.

GENERAL INFERENCE.

The rise of the barometer is slackening on the western coasts, and it is probable that a North-Westerly type of fair weather will prevail during the ensuing 24 hours.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH

29.68in

100·5cb

29.53in

100cb

10°

20°

32°

40°

100·5cb

99·5cb

99cb

LOW

29·24in

29·38in.

29·53in

101cb

101·5cb

Barometer rising slowly

29·68in.

29·83in.

29·97in

30·12in

Barometer falling

102cb

102·5cb

HIGH

30·27in

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

SCALE 1 : 2×10⁷

Nautical Miles 0 1 2 3 4 500

Statute Miles 0 1 2 3 4 500

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

Inches
31
30
29

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. Pambore' 8h 7.30a		S. Pambore' 9h 11.15a		S. Pambore' 12h 7.30p															
Heights in Kilometres.	3.0	+20	+7																		
	2.0	+18	+6																		
	1.0	+23	+3	+10	+14	−4	+1														
	0.5	+17	+7	+7	+11	−4	−2														
	0	+4	+4	+3	+8	−2	−1														

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	3	41	32	s.c.bc	b bc	3.9
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	37	34	o	oc.bc	0.0
	Scarborough	*	38	35	or	or	0.0
	Skegness	5	43	38	oc	or	1.9
Eng. N.W.	Morecambe						
	Blackpool	–	42	?	owq.c	c.bc	3.5
	Southport	–	41	36	oc.bc	b	1.4
Midlands.	Buxton						
	Leamington Spa	2	40	34	od	bc.o	0.0
	Malvern	10	39	37	o	c	0.1
	Ross-on-Wye	8	41	36	rg.oe	oq.c	0.0
Wales.	Rhyl	1	42	34	o	o	0.0
	Colwyn Bay	–	41	37	o.bc	bc	0.5
	Llandudno	0.3	42	41	o	bc	0.6
	Aberystwyth	–	42	37	o.c	c.bc	2.0
	Tenby						
	Swansea	5	44	39	c.bc	bc	1.4
England. E.	Cromer	2	42	39	o.c	o.c	0.0
	Lowestoft	–	44	41	op	o	0.0
	Felixstowe	3	42	38	op	op	0.0
	Walton-on-Naze	2	42	38	ogd	og.odq	0.0
	Southend-on-Sea	5	42	38	rd.o	or.o	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	14	41	38	or	o	0.0
	Margate	8	49	36	or	o	0.0
	Ramsgate	12	41	38	r	o	0.0
	Folkestone	15	42	40	or	c.or	0.0
	Hastings	18	44	39	or.o	o.c	0.0
	Bexhill-on-Sea ...	3	47	39	r.o	o	0.0
	Eastbourne	14	43	41	o	o	0.0
	Seaford						
	Brighton	10	42	?40	r.o.c	o.c.o	0.0
	Worthing	8	42	40	r.o	o	0.0
	Littlehampton	10	46	*	r	o	0.0
	Bognor	7	45	40	r	o	0.0
	Southsea						
	Bournemouth	3	42	39	o	o	0.0
England, S.W.	Weymouth	1	44	40	or.c	cm	0.0
	Torquay	10	45	40	o	c.o	0.1
	Paignton	9	46	39	c	c	0.0
	Falmouth	18	44	40	oq.or.o	o.cph.c	0.4
	Penzance						
	Newquay	6	44	40	r.oqp	o	0.0
	Ilfracombe	1	45	40	o	o	0.5
	Weston-super-Mare ...	6	43	39	r.o	c	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.) ...	91	84	0.0	41	34	29	1	or	or.o	o.b
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	82	0.0	44	?	30	1	or	oq.or	o.b
Camden Sq. (Brit. Rainfall)	–	81	0.0	42	33	29	2	–	–	*
Hampstead (Reservoir) ...	*	80	0.0	40	30	25	3	c.or	or	bcx.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.)	–	79	0.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
84 Joules	1.4 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.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	4	40	35	32	r	o	o	0.0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	0.3	45	40	38	or.o	o	o	0.9
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	4	46	39	38	ol or	or	or.o	*

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

15th & 16th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.12 / 7.10	12.7	5.2
Greenwich	7.16 / 7.15	12.14	5.12
Wick	7.28 / 7.26	12.26	5.4
Valencia	7.38 / 7.37	12.56	5.52

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° in most districts. Rain, hail or snow fell generally, but not heavily. As a rule there was very little or no sunshine over England, but western Scotland and the north of Ireland had five hours or more.

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. 47

Tuesday 16th. February, 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 ...	1011·1	36	N	3	c	1016·5	+1	32	-10	N	2	N	bc	2	1	42	32	bc	bc	bcc	*
	Deerness ...	1011·8	35	N	3	b	1016·9	*	34	-3	NNE	1	E	cxfph	2	–	40	33	bc.c	c.bc.b	b.bc.cc	3·5
	Stornoway ...	1012·9	35	N	2	bc	1016·3	0	35	-2	SE	3	–	b	3	0·3	42	30	bc c	cp.bc	b	0·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1012·9	39	NE	1	c	1016·1	+2	33	0	E	1	SE	c	*	–	46	32	b	b.bc.cq	cq.o	6·6
	Eskdalemuir ...	1013·3	33	NW	1	c	1018·4	+2	30	-2	N	1	–	o	*	–	40	28	c.bc.c	c.bc.c	c.o	6·5
	Malin Head ...	1013·2	41	N	3	bcv	1013·9	-1	35	-5	S	3	–	cq	2	–	43	35	bcp	bcv	cq	5·6
	Blacksod Point	1012·2	41	WNW	2	b	1009·8	-7	37	-3	SSE	4	S	cm	3	Trace	44	35	bc	bc	bc.bcm	*
	Valencia ...	1015·9	44	–	0	b	1008·8	-6	46	+8	SE	4	–	o	4	2	47	34	c.cp	bcv	bc.cr	8·2
	Roche's Point	1017·2	40	NNW	2	b	1014·3	*	45	+7	SSE	4	–	o	4	–	48	33	o.bc.b	b.bc.b	b.o	*
	Birr Castle ...	1015·5	37	NW	1	b	1014·1	*	36	+9	SSE	1	–	o	*	–	45	26	b	b	bcc.o	7·0
	Donaghadee ...	1012·1	41	N	3	bc	1017·0	0	33	-7	W	2	W	bzc	2	–	44	32	bc	bc	bcm.bc	*
	Liverpool (Bidston)	1013·3	38	NW	2	b	1017·9	+1	33	-3	S	1	–	b	1	–	42	33	bc	bc	bxc	5·7
	Holyhead ...	10130	42	NNW	3	bc	1016·9	0	38	-4	S	2	S	bxc	1	1	46	35	cp.cp.c	bcp.bc	bc.bxc	5·0
	Pembroke (St. Ann's)	1015·1	40	NE	3	c	1018·2	0	43	+3	SW	2	S	c	2	0·2	44	36	c	c	c	8·3
	Scilly (St. Mary's)	1015·5	42	NW	3	bc	1017·4	-1	45	+2	SSE	4	S	bcv	3	4	47	39	cbp	bcp	bc.bcv	5·8
	Falmouth ...	1015·3	40	NW	3	b	1019·3	0	34	-4	NW	2	–	bxc	2	–	47	34	bc	b	bxc	6·4
	Jersey (St. Aubin)	1013·1	44	WNW	3	b	1020·8	*	33	-7	NW	3	–	bm	3	0·2	48	33	c.b	b	b.p.bmcc	6·7
	Portland Bill ...	1011·9	43	NNW	3	bcp	1019·3	+5	41	+1	NNE	2	–	b	2	1	45	36	bc	bcp	bc.b	*
	Dungeness ...	1009·7	38	WNW	2	cm	1019·8	+4	31	-2	NW	2	–	bmc	3	–	42	29	bcm	bcm	bm.bmc	*
	Dover	1010·1	39	NW	4	bc	1020·9	+7	32	-4	–	0	–	b	2	Trace	42	30	b.bc	bcp.bc	bc.bmc	6·5
	Wick	1012·1	39	NNW	4	c	1016·9	+1	29	-10	NNW	2	–	b	2	–	41	27	bc.cm	cm	c.bmc	*
	Nairn	1013·0	38	N	2	cq	1017·5	*	27	-9	–	0	–	bcmc	1	–	40	26	0.c	cm	c.bcmc	0·0
	Aberdeen ...	1012·1	36	NW	3	b	1017·2	+2	31	-5	WNW	3	–	b	3	0·4	42	31	cp.bc	bc.b	b	4·3
	Leith	1012·1	42	WNW	2	c	1016·9	+2	35	-2	SE	1	–	c	*	–	45	33	c.bc	bc.c	c.o	*
	Tynemouth ...	1011·1	40	NNW	3	bc	1017·3	+2	35	-1	NW	2	NW	cm	3	2	43	34	bcp	bc	cm	*
	Spurn Head ...	1009·1	37	NNW	5	bc	1018·9	+4	36	-1	NW	3	–	bcm	5	1	40	33	bcq	bcq	bcqh	3·3
	Yarmouth ...	1007·8	39	NW	3	c	1019·1	+4	32	-5	W	2	W	bc	1	2	41	31	cmrk	cmr	bc	0·1
	Clacton-on-Sea	1008·0	37	WNW	2	bc	1018·7	+3	32	-4	WNW	2	–	bxc	1	1	42	32	c.bc.c	bcp	bc.bxc	2·7
	Nottingham ...	1012·0	38	NNW	2	o	1019·0	*	29	-6	W	1	–	bmc	*	–	43	27	c.ogm	c.bm	c.c.bm	3·1
	Bath	1012·3	41	W	1	b	1020·3	*	26	-7	NE	1	–	b	*	–	46	26	b.bc c	o.bc.bm	bm	4·5
	London (Kew Obsy.)	1010·6	38	NNW	2	b	1020·8	+4	30	-5	SW	1	–	m	*	1	44	30	c.bc.o	p.o.bc.bcm	bm.bmc	1·9
ICELAND, FAEROE, &c.	Spitsbergen ...	1011·4	-22	–	0	b	1014·9	+6	-24	-7	E	2	*	b	*	*	-17	-27				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1001·6	23	NE	2	bc	1000·7	0	19	?	S	2	–	o	2	*	25	10				
	Bodö	1003·0	18	E	2	b	1008·0	+3	25	+6	NW	1	–	c	1	?	21	14				
	Christiansund	1006·9	36	NW	3	o	1011·1	+3	30	-2	–	0	–	c	4	5	36	30				
	Skudesnaes ..	1005·0	32	N	4	b	1011·0	0	27	+2	–	0	–	b	1	–	36	27				
	Færder (X'tiania Fjord)	1003·0	28	NNE	4	b	1009·0	+5	25	+2	NNW	2	–	b	1	–	28	23				
	The Scaw (Skagen)	1000·0	28	NE	5	o	1008·8	+5	27	-1	N	2	–	b	2	3	28	27				
	Blaavands Huk	1000·0	32	NNE	2	m	1011·6	+5	32	-4	N	2	–	b	1	Trace	37	30				
	Haparanda ...	1000·6	0	N	2	b	1004·7	+2	-15	-22	NW	2	–	b	*	–	7	-15				
	Hernösand ...	1000·3	18	–	0	o	1005·3	+5	14	-4	N	2		m	*	Trace	18	14				
	Stockholm ...	1000·0	27	N	2	o	1005·1	+14	23	-4	NW	2		o	*	1	28	23				
	Wisby	997·3	37	ENE	2	f	1004·3	+7	30	-4	NNE	4		o	*	–	39	30				
	Karlstad	1002·1	21	NNE	2	o	1007·5	+4	12	-11	N	2		b	*	–	27	5				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1002·9	39	NNW	6	T	1016·6	+6	39	-2	WNW	2	–	bc	2	5	41	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1008·7	41	NW	5	o	1019·5	+4	37	0	NNW	4	*	bc	3	–	43	37				
	La Hève	1014·0	37	NNW	4	c	1021·5	*	37	0	WSW	2	*	b	3	–	46	36				
	Ushant							*					*									
	Brest (St. Mathieu)	1016·6	46	N	3	c	1021·2	0	44	+3	E	3	*	bc	3	–	57	39				
	Rochefort (Ile d'Aix)	1016·3	45	NW	4	c	1022·3	+2	41	-2	SW	3	*	c	*	–	48	39				
	Biarritz	1018·3	47	WNW	4	bc	1023·1	+1	48	+2	W	3	*	c	4	20	50	43				
	Paris	1011·7	41	W	2	c	1021·0	+4	30	-7	WSW	1	–	b	*	–	46	28				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice †	1007·9	44	W	2	b	1012·2	+4	37	-3	E	4	*	b	3	–	55	36				
	Perpignan ..	1014·3	45	N	3	bc	1021·1	+5	43	+6	NW	2	N	b	*	–	55	37				
	Sanguinaire ...	1009·2	49	ESE	2	o	1007·9	*	43	-3	E	2	*	o	5	4	55	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1024·3	52	NW	4	o	1024·8	-2	46	-2	S	5	–	o	3	2	54	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1015·9	*	SSW	5	m							*									
	Madeira (Funchal)	1024·8	63	NW	3	o	1026·3	0	59	0	NW	3	N	o	3	3	66	59				

RAINFALL.

Equivalents of Millimetres in Inches.

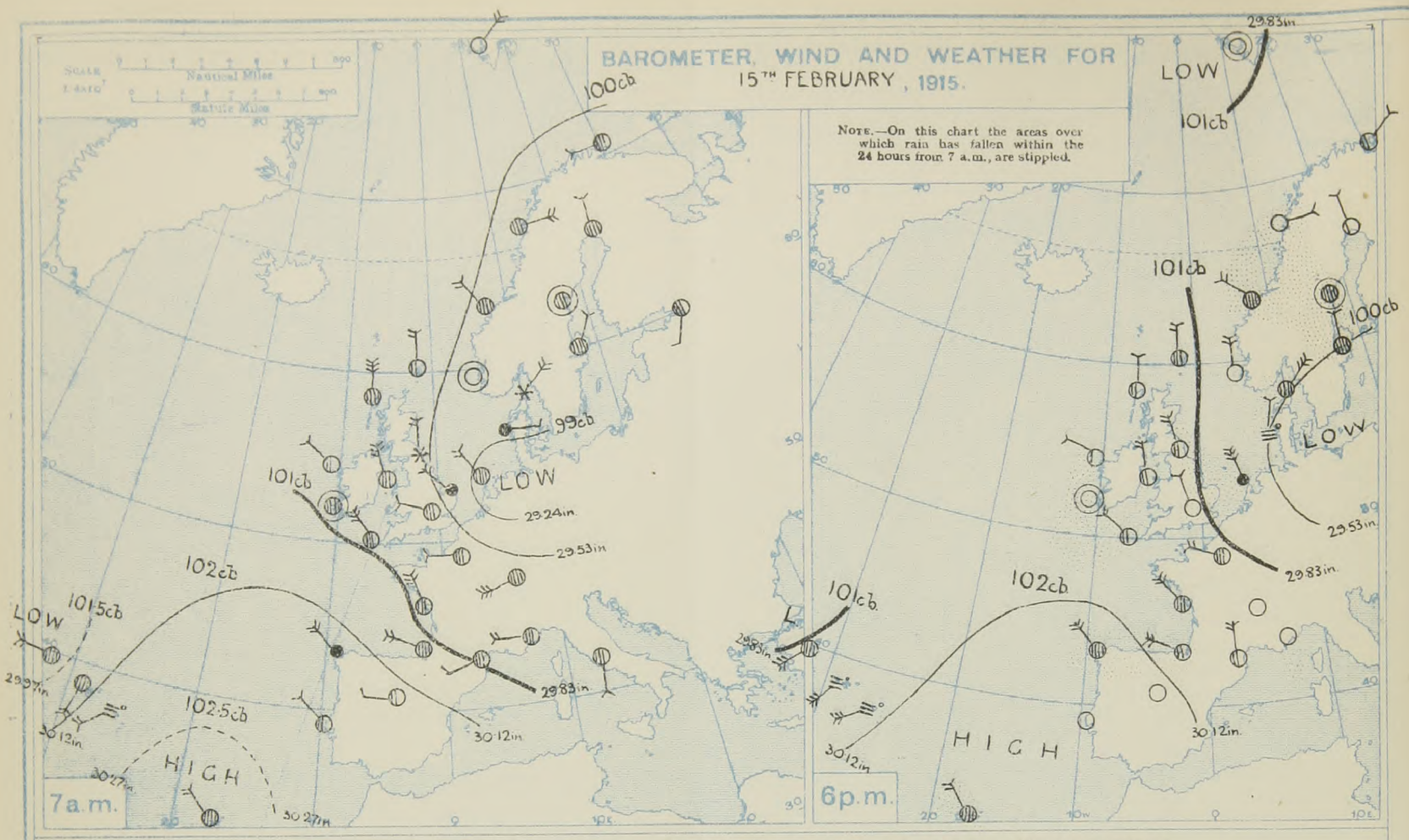
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 15TH FEBRUARY, 1915.

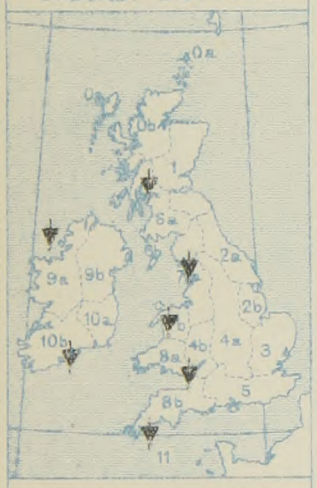
Scale for Isobars: Nautical Miles, Statute Miles

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 TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



0 {a b} 1 2 {a b} 3 4 {a b} 5 — Light Northerly breezes, backing Westerly and Southerly and freshening; fine, with local mist at first, less settled, with some rain or snow later; cold to milder.

6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} 11 — Increasing Southerly winds, squally, strong to a gale at times; cloudy to dull, some rain, with sleet or snow in places; temperature rising.

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 8.5 a.m.

Western Channel and Bay

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

FURTHER OUTLOOK.

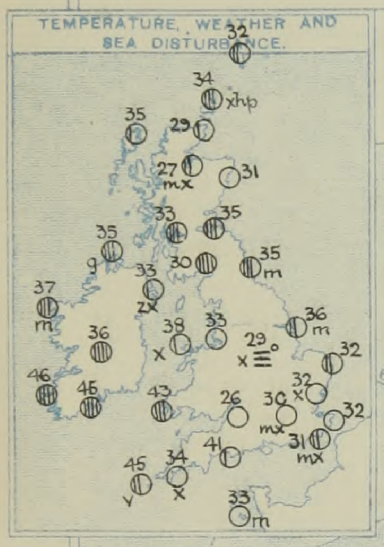
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 16TH FEBRUARY, 1915.

GENERAL INFERENCE.

A depression approaching our western coasts will bring less settled conditions to all districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



101cb

100·5cb

20°

+10°

0°

-10°

-15

-10°

0°

+10°

20°

LOW

101·5cb

32°

101·5cb.

101 cb.

Barometer falling

40°

LOW

102cb

Barometer

29·97in.

29·83in

2968m.

29·83in

29·97in.

30·12in.

Barometer rising

102·5cb

40°

101·5cb

101cb

LOW

30·12in

29·97in

29·83in

30·27in

30·27in

HIGH

Inches.

31

30

29

SCALE 1 : 2 × 10⁶

Nautical Miles 0 1 2 3 4 500

Statute Miles 0 1 1½ 3 4 500

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for FEBRUARY.

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 ⅝ clouded. ◍ sky ¾ clouded. ◍ overcast sky. ● rain falling.

✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊤≈, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ~~~.

DAILY WEATHER REPORT. Tuesday, 16th February 1915.

REPORTS FOR YESTERDAY.

15th February 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 Point	-	-	-	-		1008·6	+5	40		NW	2	NW	bc	2	Trace	43	36
Petrograd	1002·4	36	ESE	1	b	999·7	+1	36	+2	SW	1	–	c	*	–	36	34
Belfort	1000·0	37	WSW	4	bc	1003·0	*	36		WSW	6	*	o	*	?	46	34
Perpignan	1007·0	48	NW	1	bc	1009·9	+3	37	-8	WSW	1	W	c	*	–	57	32
Madrid	1014·7	45	W	3	o	1021·2	+4	37		?W	1	NW	bc	*	1	48	34
Lisbon	1020·0	52	WNW	3	c	1023·0	+2	48	-2	NW	2	–	bc	?	1	55	48
Rome	1000·3	41	W	7	c	1005·7	+3	37	-11	S	2	–	c	*	–	50	37

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	–	48	28	b	b	6·3
Scotland.	Banff	1	42	37	c bc	ph.b bc	2·8
Scotland.	St. Andrews	–	45	34	*	*	4·7
Eng. N.E.	Harrogate	0·3	41	33	bc.b	bc.b	6·2
Eng. N.E.	Scarborough	*	43	35	bc	bc	4·4
Eng. N.E.	Skegness	13	41	35	bcp	bc	2·4
Eng. N.W.	Morecambe	–	42	35	b	b	8·0
Eng. N.W.	Blackpool	–	44	37	bc.b	b	7·2
Eng. N.W.	Southport	–	43	34	c.bc.b	bc.b	7·0
Midlands.	Buxton	1	38	29	bc	bc	2·9
Midlands.	Leamington Spa	–	44	32	bc	bc	4·3
Midlands.	Malvern	–	44	34	b	b	6·9
Midlands.	Ross-on-Wye	–	47	31	bc	bc.c	5·4
Wales.	Rhyl	–	43	39	b	b	6·4
Wales.	Colwyn Bay	–	46	37	bc	bc	6·2
Wales.	Llandudno	–	45	40	b	b	6·5
Wales.	Aberystwyth	6	43	37	r.o.c	c.bc	4·0
Wales.	Tenby	1	46	33	b	b	7·7
Wales.	Swansea	1	47	34	b	bc.b	4·9
England. E.	Cromer	2	41	35	or.oh.o	o bc.c.o	0·6
England. E.	Lowestoft	7	44	34	oprs	o.c	0·1
England. E.	Felixstowe	4	43	35	c	cprh	0·8
England. E.	Walton-on-Naze	2	42	34	bc	cp.b	2·8
England. E.	Southend-on-Sea	–	44	33	b.bc.b	b.bc.o	5·3
England, S.E.	Tunbridge Wells	–	43	32	b	bc.o	4·9
England, S.E.	Margate	–	47	36	b	bc.c	4·1
England, S.E.	Ramsgate	–	42	35	bc	bc	4·6
England, S.E.	Folkestone	–	44	34	b.bc	bc.o	5·0
England, S.E.	Hastings	–	44	33	b	b.bc	6·3
England, S.E.	Bexhill-on-Sea	?	47	33	bc	bc	6·5
England, S.E.	Eastbourne	–	46	34	b	b.bm	6·3
England, S.E.	Seaford	–	44	33	bc	bc	7·0
England, S.E.	Brighton	–	47	34	b.bc	bc.c	6·4
England, S.E.	Worthing	–	47	33	b	b	7·3
England, S.E.	Littlehampton	–	45	*	b	b	8·0
England, S.E.	Bognor	1	45	33	b	b	7·9
England, S.E.	Southsea	–	46	34	b	b	5·4
England, S.E.	Bournemouth	0·3	46	31	bc	b.bv	5·8
England, S.W.	Weymouth	–	47	34	3.bc	bc3	4·5
England, S.W.	Torquay	–	50	33	bc	bc.c.b	6·6
England, S.W.	Paignton	–	48	34	b	b	6·5
England, S.W.	Falmouth	–	47	38	bc	b	6·4
England, S.W.	Penzance	2	48	40	bc	bc	7·5
England, S.W.	Newquay	1	45	40	bv	bv.cv	8·2
England, S.W.	Ilfracombe	0·3	46	40	b	b.bc.c	4·6
England, S.W.	Weston-super-Mare	–	46	36	bc.b	b.bc	2·5

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.)	68	83	0·3	43	28	20	–	bc	c.o	c.b.bzc
City (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	?	1·4	44	27	26	–	bc	op.bc	bcz
Camden Sq. (Brit. Rainfall)	67	87	2·1	43	28	24	–	bc.c	c	*
Hampstead (Reservoir)	*	85	3·8	41	27	13	–	bc	bc.o	bcx.bmz
Richmond Park	*	*	2·2							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	69	84	2·9							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
466 Joules	13·0 Milliwatts.	39 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.	–	45	32	30	bcz	b	bc	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							
Teignmouth to 9pm.								*
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	44	35	30	b	b.bc	c.rs.omp	*

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

16th & 17th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.10 / 7.8	12.7 / 12.7	5.4 / 5.6
Greenwich	7.15 / 7.13	12.14 / 12.14	5.13 / 5.15
Wick	7.46 / 7.44	12.26 / 12.26	5.6 / 5.8
Valencia	7.57 / 7.55	12.55 / 12.55	5.53 / 5.55

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 40° at nearly all stations, and touched 50° at Torquay. Slight rain, hail or sleet fell locally. Very good sunshine records were the rule, from six to more than eight hours generally.

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. 48

Wednesday, 17th February, 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 ...	1017·0	37	SSE	2	b	1006·4	-9	39	+7	SE	6	-	om	5	-	40	32	bc	b	bcm cq	*
	Deerness ...	1015·2	37	SE	4	c	996·6	*	39	+5	SE	6	-	rqu	6	3	41	33	cx bc b	b bc c	or	6·5
	Stornoway ...	1009·4	38	SE	6	c	985·8	-9	42	+7	SE	7	-	oq	6	5	42	35	b. bc	bc cq	or.oqp	5·3
	Castlebay (Barra fsd.)	1005·1	42	SE	7	oq	983·0	-8	45		SE	6	-	op	6	6	45	37	b.o.c.o	o.c.oq	oqr.op	1·7
	Glasgow ...	1012·9	36	E	2	o	990·5	-9	38	+5	ESE	2	-	or	*	5	41	33	o.c	c.o	orsp.r	2·6
	Eskdalemuir ...	1014·5	35	SE	4	o	992·4	-13	38	+8	SSE	5	-	or	*	14	40	29	o.c	c.o	o.ors	2·8
	Malin Head ...	1000·7	40	SE	8	oqq	983·4	-6	45	+10	S	4	SE	cq	5	4	45	33	bcq	oqq	c	0·2
	Blacksod Point	992·9	42	SSE	6	omr	981·6	-8	44	+7	SSE	5	S	cp	4	14	47	36	omr	omr	omr.cp	
	Valencia ...	994·2	51	S	5	r	985·6	-2	46	0	SSW	5	-	bcqp	5	19	51	42	omr	omr.	or.c	?
	Roche's Point	999·5	48	S	7	r	990·5	*	46	+1	SW	4	SW	bc	5	19	48	44	r	r.df	df.bc	*
	Birr Castle ...	997·7	45	SE	5	r	985·8	*	46	+10	S	2	-	o	*	6	49	35	or	or	or.op	0·0
	Donaghadee ...	1006·8	41	SSE	6	oqmrq	986·4	-6	46	+13	S	4	-	orm	4	14	46	30	cmq	oqmrq	df.rq	*
	Liverpool (Bidston)	1013·6	39	ESE	3	o	993·2	-9	45	+12	SE	4	SE	oq	3	1	45	33	bcm	om	oqp	4·6
	Holyhead ...	1009·2	43	SSE	7	ofqm	989·4	-7	48	+10	S	7	-	omrq	6	11	48	37	bc.c.om	c.om	omrq	0·8
	Pembroke (St. Ann's)	1002·5	44	SSE	7	r	992·4	-4	47	+4	SSW	7	-	omrq	6	21	48	42	c	oq	orq	0·0
	Scilly (St. Mary's)	1007·0	48	SSE	6	omr	996·2	-1	48	+3	WSW	6	-	om	7	24	51	43	omr	omr	omr	0·0
	Falmouth ...	1010·9	45	SSE	7	r	997·1	-3	50	+16	SW	8	-	r	6	43	50	34	bc.o	rq	rq	0·0
	Jersey (St. Aubin)	1020·0	45	SE	4	o	1006·6	*	46	+13	S	6	-	or	5	15	46	33	bm.o	o	op.or	1·3
	Portland Bill ...	1017·3	45	SSE	5	c	1001·1	-9	47	+6	S	8	S	or	7	16	47	41	bc	bc.c	c.or	*
	Dungeness ...	1021·8	42	SW	3	c	1009·0	-8	42	+11	SSE	7	-	r	6	7	45	30	bq	bc	bc.c.or	*
	Dover	1022·4	42	S	3	b	1009·9	-8	40	+8	S	7	S	r	7	3	45	36	b	b	bc.c.or	7·5
	Wick	1015·0	38	SE	4	bc	995·8	-10	41	+12	SE	5	-	r	5	1	41	29	bmx.c	bc	bc.omr	*
	Nairn	1013·5	33	SSE	1	cm	991·3	*	40	+13	S	6	-	cq	5	0·2	40	25	bc	bcr	cgqp	6·6
	Aberdeen ...	1016·4	37	SSE	3	b	996·4	-10	39	+8	SE	7	-	orq	5	5	44	31	b	b	b.orq	7·2
	Leith	1015·4	38	SE	2	bc	991·2	-11	39	+14	SE	4	SE	qp	*	0·4	41	35	c.o.c	c.bc	bc.c.o	*
	Tynemouth ...	1016·5	40	SE	3	cm	997·4	-12	40	+5	SSE	6	-	o	5	2	41	34	bcm	bcm	or	
	Spurn Head ...	1020·9	37	SE	3	bc	1002·0	-9	40	+4	SE	7	-	orq	6	3	43	34	bcm	bcm	bcq	* 6·2
	Yarmouth ...	1021·4	40	S	2	bcm	1009·4	-10	40	+8	S	6	S	omdq	4	1	45	30	bcm	bcm	omr	6·8
	Clacton-on-Sea	1020·4	41	S	2	c	1007·9	-10	40	+8	SSE	7	-	ogr	6	2	45	31	b. bcq	bcq c	c ogr	7·7
	Nottingham ...	1017·9	37	SE	1	o	999·6	*	44	+15	S	6	S	r	*	5	45	26	f.m.b	bc.o	op	3·5
	Bath	1017·4	43	S	3	o	999·8	*	48	+22	SSW	6	S	r	*	15	49	26	bm.bc.o	oq	oqrq	2·9
	London (Kew Obsy.)	1020·4	40	SSE	1	cm	1005·3	-7	44	+14	S	6	-	or	*	3	45	30	bmx.bm.b	b.bcm.cm	cm.or	4·6
ICELAND, FAEROE, &c.	Spitsbergen ...												*		*	*						
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö															*						
	Bodö	1008·6	25	E	4	S	1003·1	-3	23	-2	E	4	-	o	2	?	25	21				
	Christiansund	1014·1	32	W	3	S	1009·9	0	36	+6	W	6	-	o	5	8	36	30				
	Skudesnaes ..	1017·5	32	ENE	2	b	1015·0	0	30	+3	SE	4	-	b	2	-	37	27				
	Færder (X'ania Fjord)	1017·1	30	NW	1	b	1018·6	0	23	-2	-	0	-	b	0	-	34	23				
	The Scaw (Skagen)	1015·7	21	NNW	1	b	1018·9	0	28	+1	S	2	-	b	2	-	32	19				
	Blaavands Huk	1018·4	36	WNW	2	b	1019·8	0	34	+2	S	1	-	b	1	1	36	30				
	Haparanda ...	1008·2	7	NW	2	b	1009·0	0	-11	+4	S	2	-	b	*	-	7	-15				
	Hernösand ...	1011·4	12	-	0	b	1013·7	0	-2	-16	S	2	-	b	*	-	19	-2				
	Stockholm ...	1013·0	21	W	2	o	1017·6	+2	14	-9	W	2	-	b	*	1	23	14				
	Wisby	1014·4	28	NNE	2	bc	1020·0	+3	28	-2	WNW	4	NW	b	*	Trace	32	27				
	Karlstad	1015·8	19	-	0	b	1021·6	?	1	-11	-	0	-	o	*	-	25	-4				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1022·4	39	SW	2	bc	1016·7	-4	34	-5	SE	4	-	o	2	-	45	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1022·4	39	S	3	c	1010·7	-8	39	+2	S	7	*	r	5	1	45	37				
	La Hève	1021·7	43	SSE	2	m	1009·6	*	41	+4	S	7	*	r	4	5	46	37				
	Ushant							*					*									
	Brest (St. Mathieu)	1015·3	46	S	5	r	1003·3	-2	? 50	+6	S	7	*	r	7	31	50	41				
	Rochefort (Ile d'Aix)	1022·9	47	S	2	bc	1017·0	-1	41	0	SSE	5	*	c	*	-	52	41				
	Biarritz	1023·8	50	ESE	2	o	1016·6	-1	48	0	-	0	*	b	1	-	54	43				
	Paris	1025·0	36	SE	2	b	1018·0	-5	36	+6	SSE	3	SW	o	*	-	45	28				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1018·9	43	-	0	b	1023·4	+3	40	+2	E	1	*	b	3	-	55	36				
	Perpignan ..	1025·1	46	NW	3	b	1023·3	-1	32	-11	WSW	1	-	c	*	-	54	30				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022·1	54	SSW	6	o	1013·3	-4	55	+9	SSW	7	-	o	4	?	55	34				
	Madrid (8 a.m.)	1026·6	50	W	2	bc	1026·9	0	34		-	0	-	o	*	-	50	32				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome																					
	Azores (Horta, 8 a.m.)	1017·0	*	W	4	o							*									
	Madeira (Funchal)	1025·7	63	E	3	o	1025·3	0	57	-2	N	3	-	o	3	-	63	57				

GALES.

Duration and Extreme Force in British Islands.

Gas Hebay
16th 7 p.m – night ESE 8

Malin Head
16th Evening to night SE 8

Holyhead
16th Night SSE 8
Gust 27 mps.

Falmouth
16th Night – 7 a.m SW 8

Portland Bill
16th Midt. – 17th 7 a.m S 8.

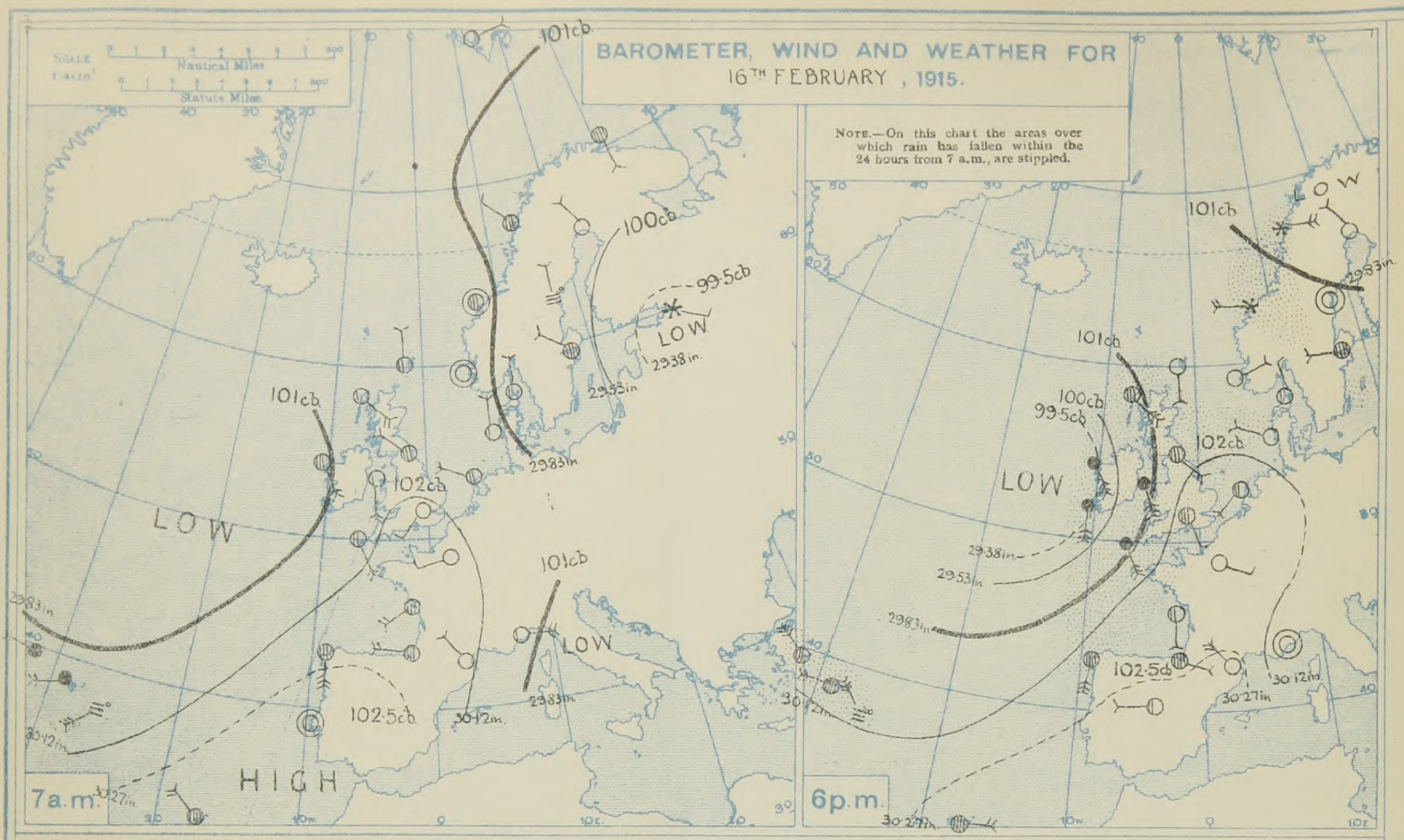
Nairn
16th 11 p.m – 17th 6 a.m. S 8

Aberdeen
17th 5 a.m SE 24 mps

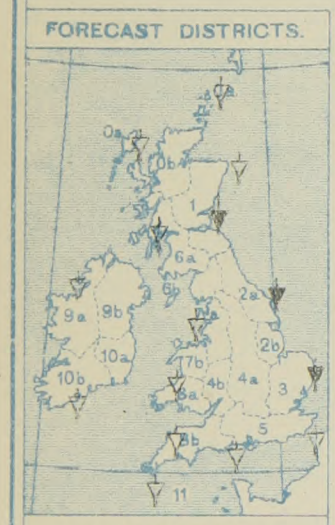
Spurn Head
17th 3 a.m SSE 8
17th 7 a.m SE 8 in Squalls.

* 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 FEBRUARY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.



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 flying all Coasts.

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}

Squally, South-Easterly winds, strong to gale, veering South and South-West, moderating later; very unsettled and rainy at first, fairer intervals later; mild.

Squally, Southerly winds, strong to gale, veering South-West and West, moderating later, very unsettled and rainy at first, fairer intervals later; mild.

Squally, Southerly to Westerly winds, strong to gale at times; variable weather, cloudy to dull, rain at times; mild.

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

FURTHER OUTLOOK.

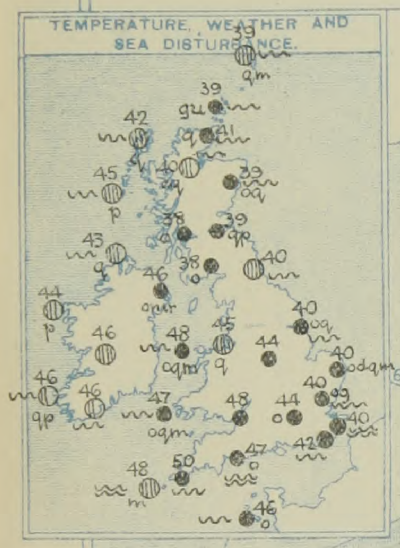
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 17TH FEBRUARY, 1915.

GENERAL INFERENCE.

The pressure distribution is of a very unsettled type.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



LOW

LOW

HIGH

100·5cb

100cb

99·5

99cb

98·5cb

101cb

101·5cb

102cb

102·5cb

Barometer

Bar 40 rising

Bar 27 rising

2909in.

2924in.

2938in.

2953in.

2968in.

2983in.

2997in.

3012in.

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 FEBRUARY.

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, 17th February 1915.

REPORTS FOR YESTERDAY.

16th February 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	1000·3	34	–	0	f	994·9	+4	32	-4	SE	1	–	s	4	2.	36	32
Lisbon	1026·4	52	NNW	3	0	1026·6	0	45	-3	–	0	–	bc	?	–	55	48
Horta	.	.	.	.	.	1012·6	0	56	-4	WSW	4	*	r	3	4	63	55

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	–	41	33	o.c	c	1·7
	Banff	0·3	42	32	b	b.bc	7·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	43	28	c.bc	cm	1·7
	Scarborough	*	44	38	bc	bc	4·9
	Skegness	1	44	29	b	bz	6·1
Eng. N.W.	Morecambe	1	42	28	or.bc	bc.o	3·0
	Blackpool	0·3	44	29	cm.bc	c.o	2·3
	Southport	–	44	30	c.bc	c.o	2·4
Midlands.	Buxton	–	42	23	bc	bc	5·1
	Leamington Spa	–	45	25	bc	bc	4·5
	Malvern	–	42	28	b	bc.c.o	6·5
	Ross-on-Wye						
Wales.	Rhyl	–	44	30	bc	bc	3·3
	Colwyn Bay	–	45	35	b.bc.b	c.cm	4·2
	Llandudno	–	47	27	b	b	2·8
	Aberystwyth	1	43	33	r.o.c	c.o	0·3
	Tenby	1	44	30	bc.o	bc.or	0·0
	Swansea	2	44	32	bc	cr	0·0
England. E.	Cromer	0·3	41	34	b	b	7·1
	Lowestoft	–	49	32	b	b.bc	7·2
	Felixstowe	–	45	33	bcm	bc	7·6
	Walton-on-Naze	–	43	32	b.bz	b.bc	7·7
	Southend-on-Sea	–	49	30	b	b.bc	7·0

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England. S.E.	Tunbridge Wells	–	41	27	m.b	bc.sm	6·9
	Margate	–	48	34	b	b	7·1
	Ramsgate	–	45	31	bc	bc	7·6
	Folkestone	–	47	34	bc.b	b	7·6
	Hastings	–	46	32	b	b	7·6
	Bexhill-on-Sea	–	46	30	b	b	6·5
	Eastbourne	1	47	30	b	bz	7·0
	Seaford	–	47	30	bc	bc	6·1
	Brighton	–	45	30	b.bc	bc.c.bc	8·5
	Worthing	–	48	28	b	bc	6·6
	Littlehampton	–	44	*	b	b	6·1
	Bognor	–	45	30	b	b	6·0
	Southsea						
	Bournemouth	–	46	26	m.c	o	2·3
England. S.W.	Weymouth	–	47	29	z.bc.c	bc.c.sm	1·0
	Torquay	–	45	31	sm	od	0·0
	Paignton	1	46	29	af.o	o.or	0·0
	Falmouth	9	46	34	bz.o	rq	0·0
	Penzance	10	47	34	or	or	0·0
	Newquay	4	45	32	o	or	0·0
	Ilfracombe	1	45	34	o	or	0·0
	Weston-super-Mare	–	45	29	b.bc	c.o	1·0

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.)	63	90	6·2	46	33	30	4	bc	bc	bc.o.or
City (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	64	89	3·8	46	28	27	5	bc	b	b.or
Camden Sq. (Brit. Rainfall)	63	97	2·3	44	32	33	7	cm	b	*
Hampstead (Reservoir)	*	93	4·6	44	30	26	7	bmc	bc.o	o.or
Richmond Park	*	*	5·3							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	67	96	4·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
?545 Joules	?15·2 Milliwatts.	31 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 ,,	0·1	43	31	*	b.bc.cx	c.bc.c.o	or	2·7
Birmingham ,,	0·3	41	30	19	*	b	c	5·6
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	45	31	21	c.bz	bm	bz.om	*

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

17th-18th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·8 / 7·6	12·7 / 12·7	5·6 / 5·8
Greenwich	7·13 / 7·11	12·14 / 12·14	5.15 / 5.17
Wick	7·44 / 7·41	12·26 / 12·26	5·8 / 5·11
Valencia	7.56 / 7.53	12.58 / 12.56	5.58 / 5.57

NOTES ON YESTERDAY'S WEATHER.

Temperature was on the rise, reaching 51° at Valencia in the afternoon, and at Scilly in the night. Rain fell generally, heavily in the west, 43 mm. at Falmouth. The day was sunless or nearly so in the west, very sunny in the east, more than seven hours in many places.

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. 49

Thursday, 18th February, 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 ...	982·9	39	SE	10	omr	982·9	0	43	+4	SSW	4	8	cm	4	14	44	37	omr	omr	cm	*
	Deerness ...	979·3	41	SSW	6	bc	980·3	*	40	+1	S	5	SW	bc	5	17	43	38	r.u	or.c.bc	bc.b.bc	0·0
	Stornoway ...	975·0	41	SSW	4	cpq	974·3	−2	40	−2	S	8	−	orq	6	10	43	38	orq	or.cqp	or.bc.orq	0·0
	Castlebay (Barra Isd.)	976·9	44	SSW	6	ohp	974·2	−1	43	−2	S	6	−	ohp	6	13	46	38	ohp	ohp.c.ohp	ohp.r	0·9
	Glasgow ...	985·0	40	SSW	4	ohp	983·2	0	37	−1	SSE	2	−	b	*	9	46	26	or.c.bc	chrc	bcc	3·5
	Eskdalemuir ...	988·7	34	S	3	b	985·3	−1	34	−4	SSE	2	−	o	*	24	43	32	or.orq	rhrhq	c.ors.o	0·1
	Malin Head ...	978·7	40	S	5	bcq	976·6	−1	37	−8	S	6	S	bcq	6	2	45	36	bq	bcq/p	bcq	4·5
	Blacksod Point	977·4	43	SSW	6	cmq/p	975·5	−2	43	−1	SSW	5	SW	bc	5	2	47	42	cmp	cptl	cp.bc	*
	Valencia ...	984·7	46	SSW	3	o	981·0	−1	41	−5	SSW	1	−	bc	3	5	47	40	pbtl	cir	bcp	3·2
	Roche's Point	987·3	40	SSW	4	r	983·2	*	43	−3	W	3	−	o	5	9	48	36	bc	bc.c.or	o.b.op	*
	Birr Castle ...	984·7	42	S	1	c	980·4	*	39	−7	S	1	−	c	*	2	46	35	cphq	cph	c	6·3
	Donaghadee ...	985·4	39	SW	3	bcm	981·3	−2	40	−6	SSW	3	SW	cq	2	7	48	36	oq/phm	bcmp/h	bcm.cq	*
	Liverpool (Bidston)	992·3	43	S	3	b	986·8	−3	40	−5	SE	3	−	or	3	3	49	36	op	b	or	3·7
	Holyhead ...	989·7	46	SSW	5	ohpgm	983·2	−6	43	−5	S	5	−	oq	4	8	49	38	or.c.bc	bc.c.o	cp.o.bc	5·5
	Pembroke (St. Ann's)	988·7	45	S	6	r	985·1	−2	44	−3	SSW	6	SW	cqp	5	9	47	43	omrq	cgq	orq	4·3
	Scilly (St. Mary's)	991·7	47	W	7	cmq/p	988·3	−2	47	−1	SSW	6	SW	cqp	7	4	50	45	cmq/p	cq/p	bc.cqp	4·3
	Falmouth ...	993·9	48	SSW	6	o	989·0	−4	47	−3	SW	6	−	b	6	5	50	45	roq/ph	bc.oq	bcqp	2·3
	Jersey (St. Aubin)	1003·1	48	SSW	4	b	997·8	*	46	0	SW	5	−	p	4	9	49	45	or.oqp	d.or.o.b	bc.op	0·0
	Portland Bill ...	999·0	46	SSW	5	bcm	997·8	−5	47	0	SSW	6	SW	cp	5	12	47	42	or	bc	cr	*
	Dungeness ...	1003·2	44	S	5	r	998·5	−1	46	+4	SW	5	SW	cq	5	19	46	42	oqr	oqr	or.cq	*
	Dover	1003·0	43	SW	7	r	998·6	−1	46	+6	SSW	7	SW	bc	6	16	46	39	or	or	po.c.bc	0·0
	Wick	979·7	42	S	4	bc	980·3	0	41	0	SSE	4	−	bc	5	13	43	38	omrq	omr.bc	bcm	*
	Nairn	980·1	39	WSW	4	cq	979·5	*	39	−1	WSW	3	−	cqu	3	0·4	45	36	cq/p	bcq/p	bcc.c	1·8
	Aberdeen ...	984·6	39	SW	3	b	983·4	0	38	−1	SW	1	SW	b	3	25	46	37	orq/	o.bc.op	b.bc	1·0
	Leith	985·2	44	SSW	3	c	983·7	−2	39	0	SSW	2	−	b	*	4	50	36	or.cqp	oqp.h.c	c.bc	*
	Tynemouth ...	989·3	44	SW	3	bm	987·0	+1	40	0	SW	3	SW	cm	3	1	48	39	cm	bc	cm	*
	Sparn Head ...	995·4	42	SSW	4	c	992·9	−2	45	+5	WSW	4	−	bc	4	5	47	34	orq	orq.c	bc	0·0
	Yarmouth ...	999·5	39	SW	3	omr	996·1	0	43	+3	SSW	3	SW	bc	2	8	45	39	oq/mr	oq/mr	bcp	0·0
	Clacton-on-Sea	1000·2	43	SSW	5	oq	996·1	−2	43	+3	SSW	4	SW	c	3	8	44	39	oqr	oqr	oqp.bc	0·0
	Nottingham ...	995·3	45	SW	4	b	990·3	*	44	0	S	5	S	c	*	4	50	42	r	r0.c.b	bcp	0·4
	Bath	998·2	47	SSW	2	bc	992·2	*	45	−3	W	4	SW	r	*	20	61	43	oqr	c.bc	bc.c.or	0·9
	London (Kew Obsy.)	1000·7	44	SSW	3	bcm	995·0	−3	46	+2	SSW	6	−	o	*	11	47	43	or.orq	orq.o.bcm	bcm.bcoqq	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1018·0	−27	S	1	b	1015·8	−4	−27		−	0	*	b	*	*	−27	−33				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1004·8	16	W	5	o	1005·2	0	14		W	5	−	s	4	*	18	14				
	Bodö	1001·0	28	E	4	c	1006·9	+3	14	−9	E	2	−	b	2	?	27	12				
	Christiansund	1006·0	32	E	2	o	992·4	−3	34	−2	−	0	−	o	4	−	36	32				
	Skudesnaes ..	998·6	34	SSE	9	s	989·9	−3	39	+9	SE	5	−	o	4	6	39	30				
	Færder (Xiania Fjord)	1010·3	30	SSE	6	o	997·9	−2	32	+9	S	4	−	m	3	?	32	23				
	The Scaw (Skagen)	1012·8	30	S	5	o	998·1	+1	34	+6	SSW	3	−	m	3	4	34	27				
	Blaavands Huk	1008·6	34	ESE	6	s	999·2	−1	37	+3	SSW	4	−	o	5	3	37	30				
	Haparanda ...	1002·6	19	S	4	s	1009·5	+4	−4	+7	NNW	2	−	b	*	1	18	−11				
	Hernösand ...	1008·7	21	S	2	b	1005·3	−3	12	+14	−	0	−	o	*	−	23	−2				
	Stockholm ...	1017·1	23	SSW	2	b	1005·9	−10	32	+18	S	4	−	s	*	Trace	32	14				
	Wisby	1020·3	25	WSW	4	b	1009·5	−7	32	+4	S	4	−	s	*	−	32	25				
	Karlstad	1016·7	25	−	0	o	1000·2	−8	32	+31	S	2	−	s	*	7	32	0				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1004·2	37	S	7	r	999·9	+1	43	+9	S	6		o	5	7	43	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1002·9	43	S	7	r	999·4	−1	43	+4	SSW	6	*	c	5	12	43	39				
	La Hève	1003·1	43	S	5	o	1000·2	*	45	+4	S	4	*	o	4	1	46	39				
	Ushant	?	50	SW	7	bc	992·2	*	50	−2	SW	7	*	o	7	13	52	43				
	Brest (St. Mathieu)	1000·7	49	SSW	6	o	995·7	−4	50	0	SSW	6	*	c	5	4	54	41				
	Rochefort (Ile d'Aix)	1011·0	48	S	4	o	1007·3	−3	46	+5	S	4	*	c	*	4	50	41				
	Biarritz												*									
	Paris	1010·6	43	S	3	o	1006·3	−1	41	+5	SSE	2	−	o	*	2	45	36				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1023·5	44	−	0	bc	1020·7	−1	40	0	E	1	*	o	3	−	54	37				
	Perpignan ..	1017·7	46	−	0	o	1010·9	−3	37	+5	−	0	SW	o	*	−	55	32				
	Sanguinaire ...	1021·2	50	E	2	bc	1018·5	*	46	0	E	2	*	o	3	−	55	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1013·3	50	SSW	5	o	1013·3	−4	48	−7	SSW	6	−	o	5	13	57	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1016·6	54	NW	4	o	1017·2	−1	52	+2	WSW	4	SW	bc	?	3	57	46				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1024·6	*	W	4	c							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Lerwick
17th 10 a.m - 3 p.m SE 8
17th 3 p.m - 7 p.m SE 10

Deerness
17th 10 a.m - 1 p.m SE 9

Eskdalemuir
17th 5 p.m Squall S 27 mps

Malin Head
17th Between 9 p.m & Midt S 8

Scilly
17th 8 p.m WSW 8

Portland Bill
17th 7 a.m - 11 a.m SW 8
Ex SW 9 @ 9 a.m

Dungeness
17th 8 a.m - 3 p.m S 8

Aberdeen
17th During morning Gusts SE 23 mps

Great Yarmouth
17th 8 a.m - 5 p.m S 8

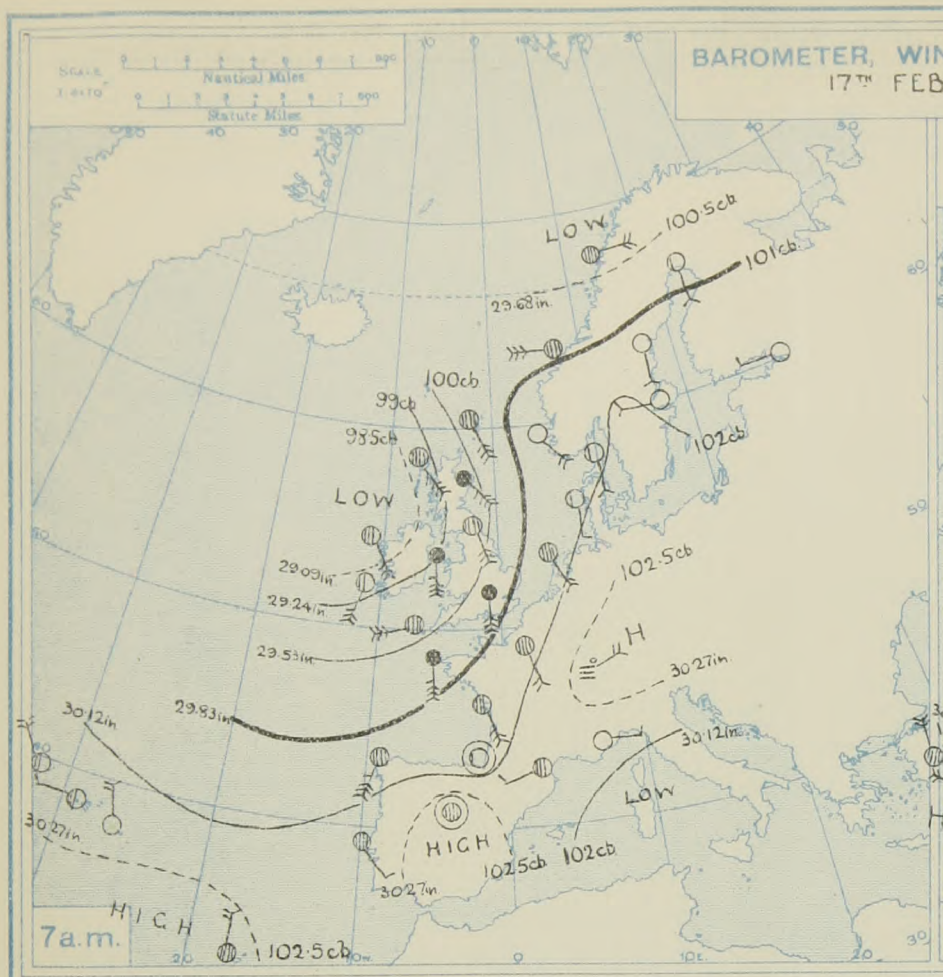
London (Kew Obs?)
17th 9.33 a.m Gust SSW 8
17th 11.55 p.m Gust SW 8
18th 0.10 a.m Gust SW 8

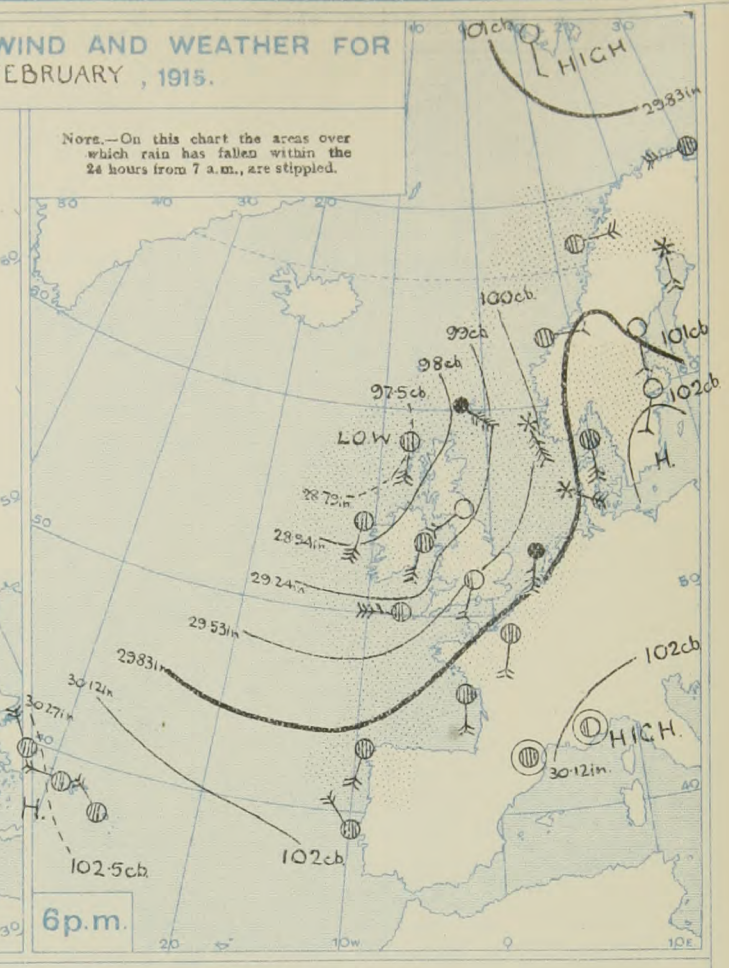
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

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

Scale 1:6570000
Nautical Miles
Statute Miles

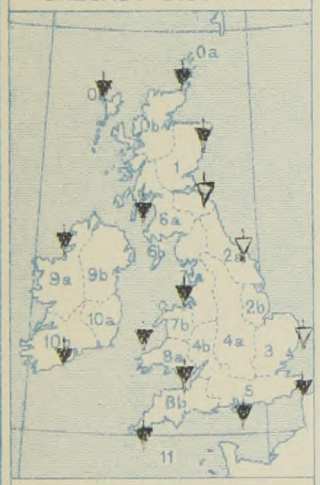
Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

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}

Squally Southerly and South-Westerly winds,

force variable, strong to a gale at times locally;

unsettled, some rain, fair intervals; mild.

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.

Cone flying all coasts.

Western Channel and Bay 11

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

FURTHER OUTLOOK.

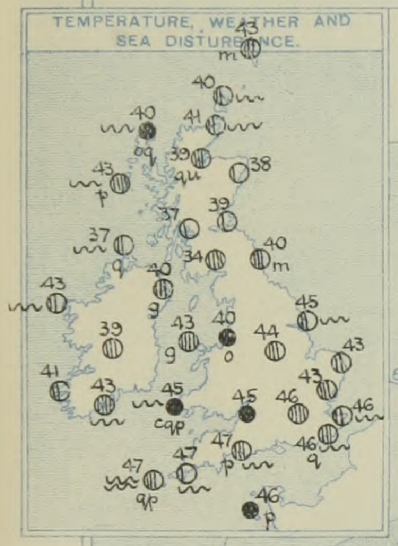
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

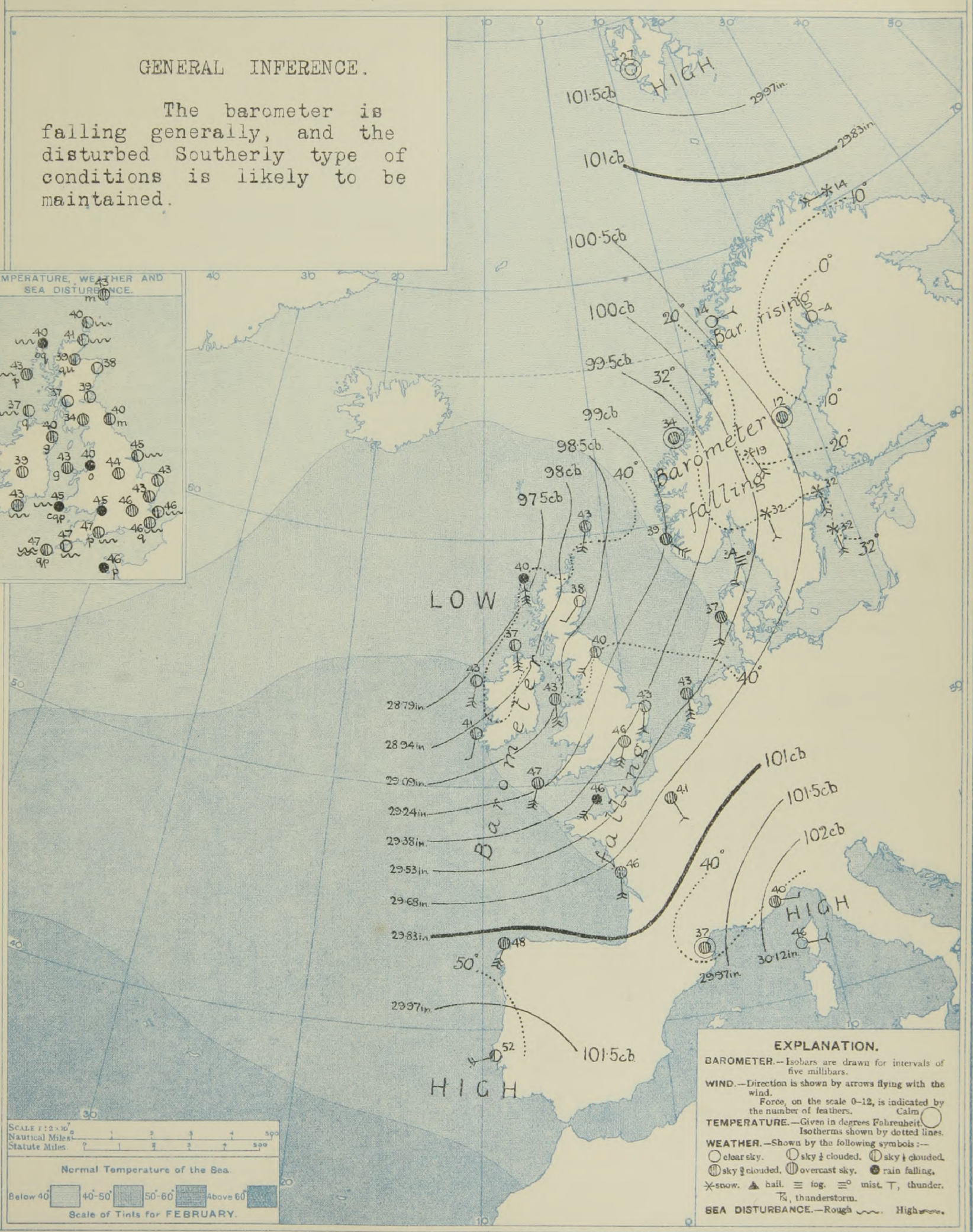
SYNOPTIC CHART FOR 7 a.m., THURSDAY, 18TH FEBRUARY, 1915.

GENERAL INFERENCE.

The barometer is falling generally, and the disturbed Southerly type of conditions is likely to be maintained.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





SCALE 1:2×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 3 4 500

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

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. Thursday, 18th February 1915.

REPORTS FOR YESTERDAY.

17th February 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	1004·4	21	wnw	3	o	1016·6	+11	14	−18	W	1	–	b	*	2	34	0
Ushant	1010·6	50	S	9	bc	1000·2	*	52		S	6	*	r	6	22	52	50
Belfort	1028·3	32	–	0	m	1027·0	*	27		ENE	3	*	m	*	?	37	25
Sanguinaire	1013·2	50	?	3	c	1017·0	*	46	+3	N	2	*	b	4	–	55	41
Lisbon	1026·1	54	SW	2	c	1022·1	+3.	50	+5	SE	1	–	o	?	–	58	48
Horta	.	.	.	.	.	1022·7	+1	50	−6	W	1	–	bc	2	2	63	50

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	7	45	30	r.o	bc	0·6
	Banff	10	45	34	r	o.b	1·6
	St. Andrews	34	48	35	*	*	2·3
Eng. N.E.	Harrogate	18	47	34	or	cp.bc.b	0·6
	Scarborough	*	47	36	of	of	0·0
	Skegness	5	47	39	r	r.o.c	0·0
Eng. N.W.	Morecambe	12	49	39	r.bc	b.bc	3·4
	Blackpool	12	48	38	orq	bcd	3·4
	Southport	11	49	38	or.c	c.bc.b	2·3
Midlands.	Buxton	25	44	34	cr	bc	0·9
	Leamington Spa	13	48	30	cr	c.bc	0·5
	Malvern	30	49	39	or	p.bc	0·0
	Ross-on-Wye	17	49	40	or	bc	0·6
Wales.	Rhyl	3	50	35	r.o.c	c	3·6
	Colwyn Bay	10	50	40	or.c.bc	c.bcp.r	3·0
	Llandudno	5	50	36	or	bc	2·5
	Aberystwyth	6	48	38	r.o.c	bc.o	3·0
	Tenby	30	49	46	bc.o	bc	4·2
	Swansea	33	49	42	r	b.or	3·0
England. E.	Cromer	6	44	34	o.cr	r.o.c	0·0
	Lowestoft						
	Felixstowe	13	44	33	orq	orq	0·0
	Walton-on-Naze	6	43	35	orq	ogq	0·0
	Southend-on-Sea	4	44	38	r.or	r	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	30	45	38	or	r.o	0·0
	Margate	7	45	36	or	or	0·0
	Ramsgate	9	43	?	r	r	0·0
	Folkestone	22	45	39	or	or	0·0
	Hastings	17	45	41	or	or	0·0
	Bexhill-on-Sea	20	45	42	r	r	0·0
	Eastbourne	23	46	42	orq	orq	0·0
	Seaford	21	46	42	or	or	0·0
	Brighton	22	46	?42	or	r.o.c.bc	0·0
	Worthing	27	46	43	r	r.bc	0·0
	Littlehampton	20	46	*	r	r.c.bc	0·0
	Bognor	17	47	43	r	r.o.c	0·0
	Southsea	5	47	?40	or	or	0·0
	Bournemouth	31	48	42	or	or.o	0·1
England. S.W.	Weymouth	38	48	43	or	r.c.bcq	0·5
	Torquay	47	49	44	or	p.c.bc	1·7
	Paignton						
	Falmouth	37	50	45	rq.oph	bc.oq	2·3
	Penzance	26	50	46	o.bc	bc.or	3·5
	Newquay	21	50	43	op.c.b.	b.bc.o	3·4
	Ilfracombe	26	50	43	r.o.c	c.bc.c	3·0
	Weston-super-Mare	10	50	35	r.c	b.bc	1·5

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.)	94	81	0·0	48	43	39	7	or	or.cp	c
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	87	0·0	49	44	38	8	or	or.b	b.or
Camden Sq. (Brit. Rainfall)	92	91	0·0	47	43	38	10	or	or.o	*
Hampstead (Reservoir)	*	94	0·0	46	39	32	9	or	or	bc.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.)	97	87	0·0

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
?109 Joules	?3·0 Milliwatts.	6 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.								*
Manchester ,,	7	49	39	*	or	cp.c.bc	bc.c	1·2
Birmingham ,,	17	48	40	36	r	r	r.c	0·6
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	11	47	41	35	orq	orq	or.c.bq	*

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

18th & 19th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·6 / 7·4	12·7 / 12·7	5·8 / 5·10
Greenwich	7·11 / 7·9	12·14 / 12·14	5·17 / 5·19
Wick	7·41 / 7·38	12·26 / 12·26	5·11 / 5·14
Valencia	7·53 / 7·51	12·55 / 12·55	5·57 / 5·59

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° or 51° at a number of stations. Rain was general, heavy in many places, 24 mm. at Eskdalemuir, and 25 mm. at Aberdeen. Bright sunshine was experienced in the western districts, 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.

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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. 40

Friday, 13th February, 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 ...	983·7	41	S	3	c	978·2	−3	41	−2	E	6	–	org	5	5	43	37	bcm	bc	cm.cgp	*
	Deerness ...	980·3	41	SSE	4	c	975·9	*	40	0	S	1	SE	c	2	1	44	40	bc	bc.c	c	5·7
	Stornoway ...																					
	Castlebay (Barra Isd.)	974·0	43	SE	5	0	974·2	0	43	0	SE	3	–	op	4	2	44	41	op.c	c.op.o	op	2·3
	Glasgow ...	978·5	41	SSE	1	0	974·9	−2	37	0	E	1	–	od	*	5	43	35	bc.c.op	op	bc.b.or	0·0
	Eskdalemuir ...	979·7	39	S	4	0	975·7	−1	38	+4	S	3	–	or	0	9	40	33	o.or	or.o	o.or	0·0
	Malin Head ...	973·2	42	S	3	bcr	974·9	+2	41	+4	W	4	SW	cqp	3	2	45	37	bcq	bcr	cqp	5·2
	Blacksod Point	976·5	44	SSW	5	cp	981·3	+5	41	−2	WNW	6	NW	cm	5	6	47	38	cmp	cp	cp.bcp	*
	Valencia ...	979·0	47	WSW	4	ocq	986·4	+2	43	+2	SW	5	N	0	5	9	47	40	cp	cph	cp	1·0
	Roche's Point	981·1	45	WSW	4	r	985·0	*	42	−1	WNW	4	NW	c	5	3	48	40	bc	c.op	o.b.bc.c	*
	Birr Castle ...							*							*							
	Donaghadee ...	976·2	43	SSE	3	cgm	975·1	0	39	−1	WNW	4	W	cqmp	3	2	46	37	bc	bc	bm.cgp	*
	Liverpool (Bidston)	981·4	40	SSE	2	bc	978·0	−1	39	−1	SW	2	S	c	2	9	45	38	or	o.c	or	0·3
	Holyhead ...	979·3	45	SW	4	cm	977·6	0	41	−2	WSW	4	–	omp	3	7	47	40	op.c.or	o.cm	cp.b.op	0·8
	Pembroke (St. Ann's)	982·6	45	SSW	5	c	981·4	0	45	+1	W	5	W	bcq	5	7	46	42	cqp	cq	cqp	1·4
	Scilly (St. Mary's)	986·3	46	W	7	cq/p	985·8	+1	45	−2	WNW	6	W	cqp	6	4	48	43	cq/p	cq/p	cqp.r.p	1·5
	Falmouth ...	986·4	44	WSW	4	b	985·7	0	41	−6	W	3	–	b	4	5	49	41	bc.oq/p	o.c.b	bq.cp.b	1·5
	Jersey (St. Aubin)	988·9	47	SW	5	op	989·2	*	44	−2	SSW	5	–	oc	4	4	50	43	bcq/p	bc.oq/p	q.r.bc	4·2
	Portland Bill ...	986·0	45	SW	6	oq/p	985·7	−2	45	−2	SW	6	SW	cqp	5	7	48	43	cp.d	c.oq/p	bcqp	*
	Dungeness ...	991·0	47	SW	6	cq	988·6	−2	45	−1	SW	6	SW	cq	5	6	49	43	bcq	bcpq	bcq	*
	Dover	991·2	44	SSW	4	r	989·1	−1	44	−2	SW	7	SW	o	5	3	48	41	bc c	c.bc.or	op.c.o	2·7
	Wick	979·2	42	SE	4	bc	976·0	−2	33	−8	–	0	–	c	3	–	42	33	bcm.cm	cm	b.m.cmx	*
	Nairn	977·8	38	ESE	1	cqm	975·6	*	30	−9	–	0	–	mc	1	0·3	46	37	bcq	bcp.c	bcmx	2·4
	Aberdeen ...	979·8	44	S	3	bc	976·2	0	35	−3	W	1	SW	bq	3	–	44	34	bc c	o.c	c.o.c.bq	1·7
	Leith	979·4	44	SW	2	c	974·8	−1	38	−1	SSE	1	–	r	*	1	41	35	b.bc.c.o	o.c	c	*
	Tynemouth ...	981·5	44	S	2	cm	977·4	−2	39	−1	SSW	2	–	cm	3	1	46	38	cm	cm	cm	*
	Spurn Head ...	984·2	45	SSW	5	bc	979·9	−2	41	−4	SSW	5	–	cqc	4	3	48	35	bcq	orq.c	bc	3·0
	Yarmouth ...	984·7	46	S	4	bcq	985·6	−2	40	−3	S	4	S	bc	2	1	49	40	bcp.c	c.bcp	bcp.b	1·7
	Clacton-on-Sea	984·4	45	SSW	6	c	986·1	−2	43	0	SSW	3	SW	c	3	1	46	41	c.bc.c	c.bc.c	c.bcp	2·4
	Nottingham ...	983·8	44	S	4	c	980·7	*	41	−3	SSW	5	SW	o	*	1	50	39	c	cp	cp	1·3
	Bath	985·2	44	SW	3	r	984·4	*	45	0	SW	3	SW	o	*	6	50	42	or.cp	c.or.p	bc.b.r.o	1·2
	London (Kew Obsy.)	987·8	47	SSW	6	0	985·8	−2	44	−2	SW	5	–	o	*	8	51	40	or.o	or.o	or.oq.c.o	0·6
ICELAND, FAEROE, &c.	Spitsbergen ...	1013·0	−29	SE	2	b	1011·9	−1	−29	−2	–	0	*	b	*	*	−27	−33				
	Isafjord												*		*	*	*	*				*
	Reykjavik ...												*		*	*	*	*				*
	Vestmanna ...												*		*	*	*	*				*
	Seydisfjord ...												*		*	*	*	*				*
	Thorshavn ...												*		*	*	*	*				*
NORTHERN EUROPE.	Vardö	999·8	12	N	4	s	1004·6	−2	12	−2	W	3	–	b	5	*	16	12				
	Bodö	1000·7	17	E	6	b	996·7	−3	14	0	E	4	–	b	2	–	18	10				
	Christiansund	989·0	36	NE	1	o	987·7	−1	34	0	E	1	–	b	3	–	36	32				
	Skudesnaes ..	988·7	37	S	4	r	983·3	−2	39	0	S	5	–	r	3	7	41	37				
	Færder (X'tania Fjord)	994·6	36	S	4	f	990·0	−1	34	+2	SSE	4	–	f	3	1	36	32				
	The Scaw (Skagen)	995·5	37	SSW	3	m	991·4	−3	36	+2	S	3	–	m	2	1	37	34				
	Blaavands Huk	997·0	37	S	3	o	989·0	−3	37	0	SSE	4	–	o	3	2	39	36				
	Haparanda ...	1008·3	5	N	2	o	999·5	−3	7	+11	NE	6	–	s	*	4	7	−4				
	Hernösand ...	999·8	19	–	0	0	995·8	−1	16	+4	NE	2	–	s	*	9	25	12				
	Stockholm ...	1001·0	34	S	2	0	996·7	−1	34	+2	S	2	–	m	*	3	34	32				
	Wisby	1003·4	36	SSW	4	0	997·5	−3	34	+2	S	2	–	s	*	6	36	32				
	Karlstad	997·7	34	SW	2	r	994·0	−4	34	+2	S	2	–	r	*	2	36	1				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	995·0	46	S	6	0	989·2	+3	43	0	S	6	–	bc	4	1	46	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	992·6	44	S	6	c	989·2	−3	42	−1	S&W	6	*	c	5	4	48	41				
	La Hève	991·5	45	S	6	o	990·9	*	41	−4	S	5	*	b	5	2	48	37				
	Ushant	993·0	49	W	6	c	989·2	*	48	−2	W	5	*	c	7	2	50	43				
	Brest (St. Mathieu)	993·3	47	W	6	c	990·6	+2	46	−4	WNW	3	*	c	5	–	52	45				
	Rochefort (Ile d'Aix)	989·1	49	WSW	6	o	986·4	0	45	−1	WSW	6	*	o	*	3	55	45				
	Biarritz												*									
	Paris	998·3	50	S	4	r	996·3	−2	39	−2	S	3	–	o	*	1	52	37				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1015·5	44	NE	2	o	1006·0	−4	42	+2	–	0	*	b	6	19	48	37				
	Perpignan ..	1005·6	48	NNE	2	b	1003·0	−2	43	+6	N	1	–	o	*	—	54	36				
	Sanguinaire ...	1014·6	52	S	4	o	1006·6	,	51	+8	S	4	*	o	4	–	55	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·0	50	WSW	6	o	1005·6	+2	48	0	WSW	5	–	o	6	12	65	45				
	Madrid (8 a.m.)	1012·6	48	SW	4	c	1012·0	+2	41		WSW	3	–	c	*	1	50	39				
	Lisbon (9 a.m.)	1015·4	52	WSW	5	bc	1015·1	+2	52	0	WNW	3	–	o	*	4	57	50				
	Gibraltar							*					*		*							
	Rome														*							
	Azores (Horta, 8 a.m.)	1028·8	*	SW	2	b							*									
	Madeira (Funchal)	1027·3	63	N	3	b	1027·9	0	55	−2	N	2	–	b	2	–	64	55				

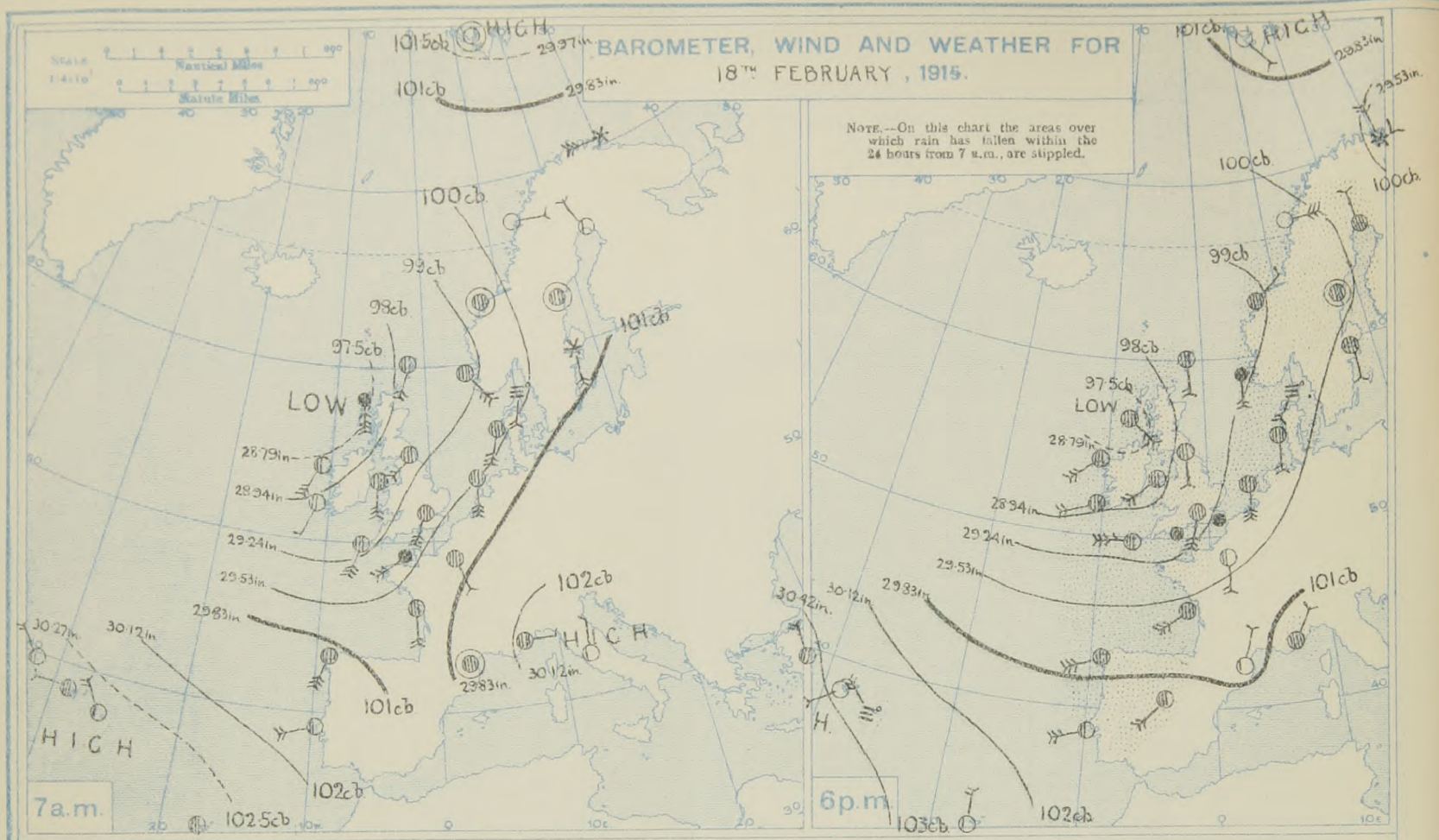
RAINFALL.

Equivalents of Millimetres. In Inches.

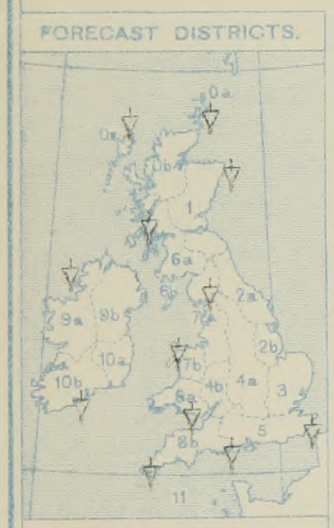
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 18TH FEBRUARY, 1915.



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 8.40 a.m.

Western Channel and Bay 11

0 {a b} 1 — Calms and light variable airs, shifting into North-West in squalls and freshening; fair or fine to dull, some rain, hail or snow; colder.

2 {a b} 3 4 {a b} 5 — Squally fresh to strong or high Southerly and South-Westerly winds, veering West or North-West; unsettled, some rain, hail or sleet, fair intervals; colder.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} 9 {a b} 10 {a b} — Squally Westerly and North-Westerly winds, fresh to strong or high at times; unsettled, some rain, hail or sleet, fair intervals; colder.

FURTHER OUTLOOK.

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

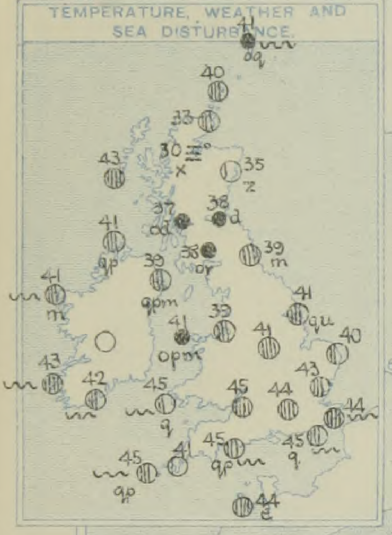
Millibs. Inches.
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 19TH FEBRUARY, 1915.

GENERAL INFERENCE.

The western depression as it moves eastward will maintain the unsettled type of conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH

29·83in. 1010cb

29·68in. 1005cb

29·53in. 1000cb

29·38in.

29·24in.

29·09in.

28·94in.

28·79in.

LOW

97·5cb

98cb

98·5cb

99cb

99·5cb

100cb

100·5cb

101cb

101·5cb

102cb

102·5cb

HIGH

Barometer rising

Barometer falling

Bar. rising

Bar. falling

29·53in.

29·68in.

29·83in.

29·97in.

30·12in.

30·27in.

10°

20°

32°

40°

50°

Inches.

31

30

29

SCALE 1 : 2 x 10⁶

Nautical Miles

Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

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, 19th February, 1915.

REPORTS FOR YESTERDAY.

18th February 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.
Rome	1020·8	46	N	2	b	1021·1	0	39		N	1	–	b	*	–	57	39
Horta	.	.	.	.	.	1027·3	+1	59	+9	W	2	*	c	3	–	59	50
Funchal	1023·9	64	N	3	o	1025·9	+1	57	0	?	?	N	c	?	–	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	8	44	39	bc	c	1·2
Scotland.	Banff	–	42	35	bq	c.o	3·0
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	47	37	op	c.op	0·5
Eng. N.E.	Scarborough	*	49	40	o.c	o.c	2·5
Eng. N.E.	Skegness	0·3	50	41	bc.b.bc	b	4·2
Eng. N.W.	Morecambe	4	44	37	m.o	bc.o	0·1
Eng. N.W.	Blackpool	6	45	40	or.o.c	c.or.o	0·1
Eng. N.W.	Southport	8	44	38	or	c.op	0·0
Midlands.	Buxton	3	45	37	c	or	1·0
Midlands.	Leamington Spa	5	51	42	c.bcp	c.bcp	3·4
Midlands.	Malvern	2.0	44	41	c.bcp	p.bc.o	2·2
Midlands.	Ross-on-Wye	8	50	40	bcq.o	cp.or.c	3·1
Wales.	Rhyl	6	47	37	or.o	bc.c	1·0
Wales.	Colwyn Bay	13	50	40	or.p	c.op	0·8
Wales.	Llandudno	8	48	40	o	bc	1·0
Wales.	Aberystwyth	15	47	42	r.o.c	c.cr	0·5
Wales.	Tenby	19	45	42	r.bc.o	p.bc.o	0·5
Wales.	Swansea	6	48	43	cp	bc	1·3
England. E.	Cromer	–	50	41	c.bc	bc.op	2·0
England. E.	Lowestoft	–	47	42	o.c	c	2·6
England. E.	Felixstowe	–	47	40	bc	bc	1·7
England. E.	Walton-on-Naze	–	46	40	bc.c	bc.c	2·6
England. E.	Southend-on-Sea	–	49	41	o.c.bc	bc.c	2·1
England. S.E.	Tunbridge Wells	0·3	49	43	o	o	1·9
England. S.E.	Margate	1	50	40	c	bc	2·3
England. S.E.	Ramsgate	2	48	36	o	bcq.r	2·2
England. S.E.	Folkestone	4	48	36	or.o	o.bc.or	3·8
England. S.E.	Hastings	1	49	44	b.bc.o	bc.op.c	3·5
England. S.E.	Bexhill-on-Sea	3	47	43	c	c	4·7
England. S.E.	Eastbourne	1	50	44	o.b.bc	bc.oq	2·8
England. S.E.	Seaford	2	48	44	or c	c	3·2
England. S.E.	Brighton	2	48	44	o.c	c.o	2·5
England. S.E.	Worthing	–	50	44			3·2
England. S.E.	Littlehampton	–	48	*	c.b	b.bc	3·0
England. S.E.	Bognor	1	48	44	o.bc	bc.o	3·8
England. S.E.	Southsea	4	51	45	c.b	cr.o	2·3
England. S.E.	Bournemouth	9	50	43	c	c.or	3·5
England. S.W.	Weymouth	7	50	44	cp	p.cm	2·1
England. S.W.	Torquay	8	49	44	bc	p.bc.c.o	2·0
England. S.W.	Paignton	11	49	42	bcp	bcp	1·6
England. S.W.	Falmouth	5	49	44	bc.oqp	o.c.b	1·5
England. S.W.	Penzance	5	50	45	op	cp	2·0
England. S.W.	Newquay	8	50	43	bc.op	op.c	1·7
England. S.W.	Ilfracombe	11	50	43	r.o.cp	bcp	0·5
England. S.W.	Weston-super-Mare ...	4	50	46	bc.or	cr.bc	0·4

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.) ...	74	81	1·9	51	39	30	3	c.o	op	op
City (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	86	1·0	52	41	36	7	or	or.bc	bc.r
Camden Sq. (Brit. Rainfall)	76	90	0·3	51	40	29	7	or.e	c.o	*
Hampstead (Reservoir) ...	*	92	0·8	48	37	29	6	c.op	c.op	op
Richmond Park ...	*	*	1·6							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	80	86	0·6							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
382 Joules	10·5 Milliwatts.	38 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.	–	48	38	35	bc	c.b	bc	*
Darwen to 9 p.m.								
Manchester ,,	4	49	41	*	c.op	oc.c.or	or.c.bc	1·1
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	50	44	39	bc	orq.oq	oqp.oq	*

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

18th Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·4	12·7	5·10
	7·2	12·7	5·12
Greenwich	7·9	12·14	5·19
	7·7	12·14	5·21
Wick	7·38	12·26	5·14
	7·35	12·26	5·17
Valencia	7·51	12·55	5·59
	7·49	12·55	6·1

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or 51° at several stations. Rain fell generally, but not heavily.

Bright sunshine ranged up to 5·7 hours at Deerness.

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. 51.

Saturday, 20th February, 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 ...	976·7	42	SE	2	cm	978·5	0	38	-3	N	1	–	cm	1	5	43	37	cmp	cm	cmd.cm	*
	Deerness ...	976·3	40	W	1	c	978·6	*	36	-4	WSW	3	W	bc	2	–	43	36	c	c	c.bc.bc	1·3
	Stornoway ...	976·5	39	SW	1	b	979·3	+2	37		NNE	5	–	mrq	5	8	44	33	bc.b	b	c.cplrq	4·2
	Castlebay (Barra Isd.)	977·9	43	W	4	cp	979·6	+1	41	-2	NNW	2	NW	c	3	14	44	40	cp	cp	c.cp.c	0·0
	Glasgow ...	978·4	40	WSW	2	cdp	982·7	+2	36	-1	WSW	3	–	bc	*	0·44	42	35	0.c.bc.0	cdp.c.0	c.c	0·9
	Eskdalemuir ...	979·1	37	W	2	cr	984·5	+2	29	-9	WSW	2	–	bc	*	2	42	27	cr.0	0.c.cr	bc.b.bc	1·0
	Malin Head ...	981·0	42	W	6	cq	982·9	+1	38	-3	SSW	4	SW	bc	4	2	46	37	cq	cq	c	0·3
	Blacksod Point	984·1	39	WNW	3	bc	983·8	0	34	-7	SE	2	SE	bc	2	2	43	?32	bcp	d.c	bc.bcp	*
	Valencia ...	986·4	42	NW	2	c	980·7	-6	39	-4	SSE	2	–	r	4	6	46	35	c	cr	cpdbr	1·3
	Roche's Point	987·2	43	NW	2	bc	986·4	*	42	0	SW	3	–	b	3	0·2	46	37	c	c.bc	bc.bc	*
	Birr Castle ...	984·8	36	W	1	c	985·0	*	30		S	1	–	bc	*	–	44	30	bc	c	bcc	5·0
	Donaghadee ...	981·3	40	WNW	4	bc	984·5	0	32	-7	W	3	–	bcg	2	1	45	31	cgmp	bc	bcmg	*
	Liverpool (Bidston)	982·7	42	W	4	o	986·2	+1	36	-3	WSW	2	–	b	2	2	44	35	r.0	o.c	c.b.	1·5
	Holyhead ...	983·2	44	W	4	cg	985·5	0	37	-4	W	3	–	bz	2	0·2	46	36	cp.0.c	bc.c.0	o.c.bz	5·0
	Pembroke (St. Ann's)	985·7	44	WNW	3	c	987·0	0	37	-8	E	1	–	cgz	1	0·1	46	36	bcq	c	c	6·7
	Scilly (St. Mary's)	987·1	43	W	2	cq	987·4	0	42	-3	W	4	NE	bcr	4	2	49	40	cp	cq.p	bc.cr	4·1
	Falmouth ...	986·9	42	NW	3	bc	987·8	+1	37	-4	NW	3	–	bc	3	1	49	37	bc	bc	bc	5·2
	Jersey (St. Aubin)	987·5	46	WSW	4	b	987·6	*	38	-6	NW	3	NW	cm	2	6	49	36	ca.bcp	bc.b	bm.cm	6·0
	Portland Bill ...	985·6	45	WSW	3	bc	?	+1	40	-5	E	1	SW	c	3	–	48	39	c.bc	bc	bc.c	*
	Dungeness ...	985·6	43	WSW	4	cp	987·2	0	37	-8	NNW	2	NW	c	2	0·3	46	37	bcq	bcp	bc.cm	*
	Dover	986·1	42	SW	2	b	987·7	0	40	-4	SW	1	–	oz	2	0·2	44	39	0.c	cp.bc	bc.cg	0·4
	Wick	976·7	37	–	0	f	978·9	+1	30	-3	NW	1	–	b	2	–	41	29	omc	m.fe	fe.bmc	*
	Nairn	976·5	35	–	0	cm	979·0	*	33	+3	–	0	–	bc	1	1	42	27	bcm	bm.c	m.bcp	6·8
	Aberdeen ...	977·1	36	W	1	bz	980·2	+1	34	-1	SW	1	–	oz	3	–	42	31	bc.oz	o.c.bz	bz.oz	0·3
	Leith	977·3	42	W	2	c	982·0	+2	37	-1	W	2	W	bc	*	1	44	36	od.0	o.c	c.o	*
	Tynemouth ...	977·8	41	W	3	cm	983·4	+3	36	-3	W	2	–	b	2	2	45	35	cmp	cmp	bcm	*
	Spurn Head ...	981·3	41	W	4	c	985·2	+4	40	-1	NW	3	–	o	4	1	45	35	bc	c	bc	2·2
	Yarmouth ...	983·8	43	SW	3	bc	986·8	+2	38	-2	W	1	–	cm	1	3	46	37	bcp	cmqr	bc.o	2·6
	Clacton-on-Sea	983·9	43	SSW	3	bc	985·8	0	38	-5	NW	2	NW	cm	1	1	45	38	c.bc.c	cp.bc	bc.bcm	3·3
	Nottingham ...	983·1	42	WSW	2	b	986·3	*	37	-4	WSW	1	W	cm	*	1	46	37	cp.c	cp.bm	bc.c	1·9
	Bath	985·3	42	W	1	c	988·1	*	33	-12	W	1	W	o	*	1	49	30	cp.c.bc	bc.cp.0	bc.b.bm	3·3
	London (Kew Obsy.)	985·1	44	SW	2	bcm	987·3	0	38	-6	–	0	–	o	*	3	44	37	p.cr.bc	bc.bcmcbm	bcm.cm	2·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1013·6	-31	SE	2	b	1013·1	-1	-31	-2	–	0	*	b	*	*	-29	-53				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1004·7	14	–	0	b	1003·7	0	19	+7	ENE	2	–	c	2	*	14	7				
	Bodö	994·9	14	E	5	b	992·6	-1	14	0	E	4	–	b	2	–	14	9				
	Christiansund	985·3	37	–	0	o	983·9	0	34	0	–	0	–	b	3	–	37	34				
	Skudesnaes ..	981·0	39	SSE	4	r	980·0	0	39	0	S	5	–	m	4	6	41	37				
	Færder (X'tania Fjord)	989·7	34	SSE	4	f	987·7	0	36	+2	SSE	6	–	o	3	2	36	34				
	The Scaw (Skagen)	988·6	37	S	3	o	987·8	0	37	+1	SSE	3	–	o	3	1	39	36				
	Blaavands Huk	988·4	37	S	3	o	986·3	0	37	0	S	3	–	m	3	Trace	39	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	986·3	43	S	4	r	986·4	0	41	-2	S	2	–	o	2	1	45	41				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	986·1	43	S	4	o	987·4	0	41	-1	SSE	2	*	c	2	3	45	41				
	La Hève	987·4	43	SW	3	o	987·7	*	40	-1	SW	2	*	o	2	1	48	39				
	Ushant							*					*									
	Brest (St. Mathieu)	989·1	46	W	2	c	990·6	+3	42	-3	NW	3	*	o	4	1	52	41				
	Rochefort (Ile d'Aix)	993·2	46	SW	5	r	986·6	+5	42	-3	N	6	*	r	*	6	60	39				
	Biarritz												*									
	Paris	989·9	45	SSW	3	o	987·7	-2	39	0	S	1	–	o	*	*	46	39				
	Belfort							*					*		*							
	Lyons	999·1	41	S	3	b	986·7	*	37		E	1	*	r	*	1	48	37				
	Nice												*									
	Perpignan ..	1000·8	46	–	0	b	985·9	0	45	+2	–	0	–	b	*	–	57	43				
	Sanguinaire ...	1001·2	50	E	1	b	995·9	*	47	-4	SE	5	*	f	6	6	54	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1013·3	55	WSW	5	r	1009·7	-3	55	+3	W	7	–	o	?	Trace	57	52				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1027·8	*	SW	5	c	1026·7	0	57	-2	WSW	4	*	o	4	–	64	57				
	Madeira (Funchal)	1027·5	63	N	2	o	1027·7	0	59	+4	N	2	N	o	2	–	64	67				

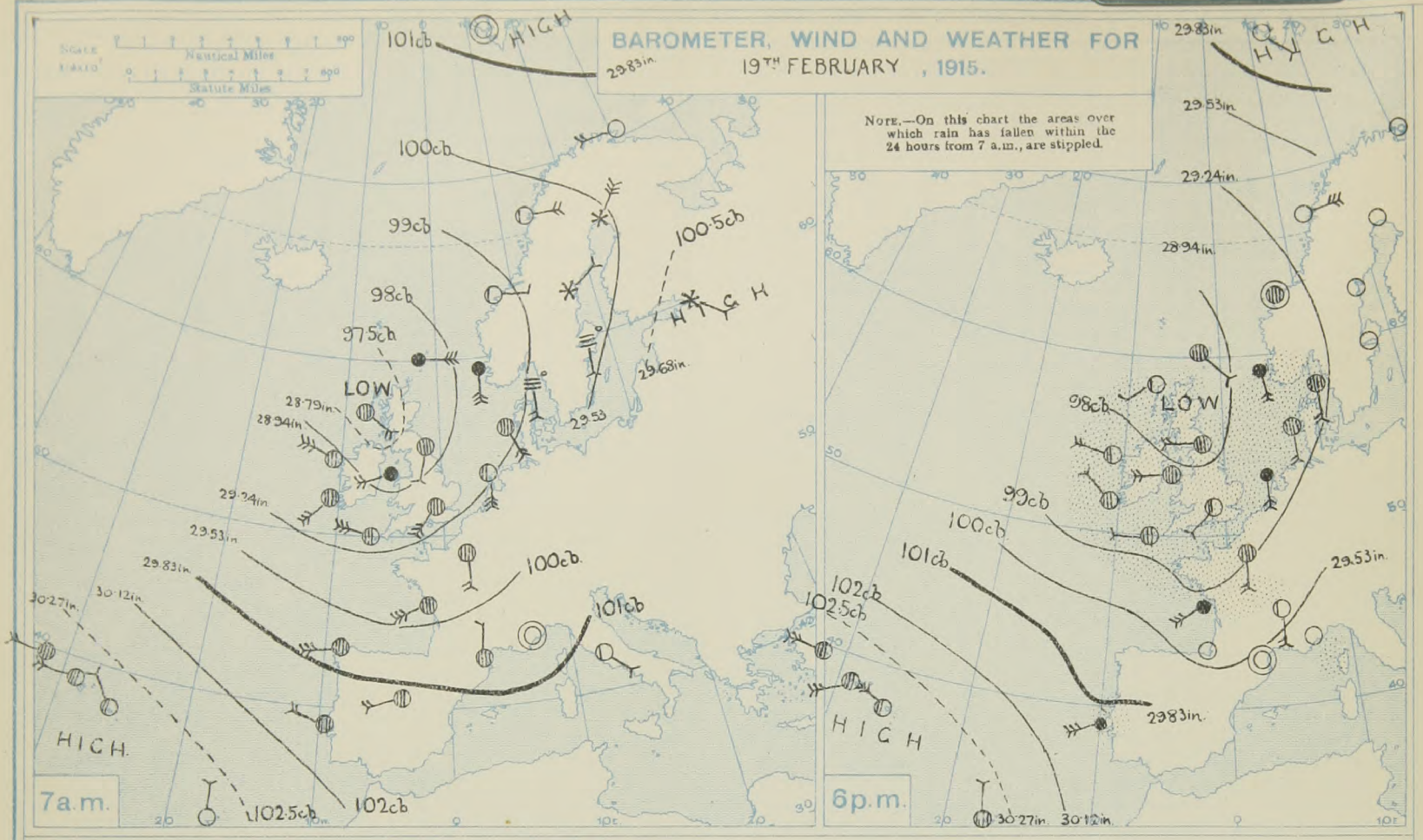
RAINFALL.

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

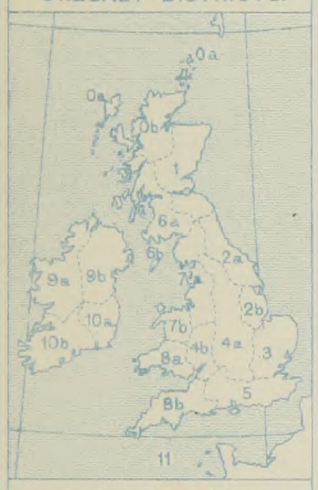
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 19TH FEBRUARY, 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.

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}

Light variable Westerly breezes, shifting South-Westerly or Southerly later and freshening; fair or fine to cloudy, local mist, becoming less settled, with some rain later; temperature rising.

9 {a b}
10 {a b}

Increasing Southerly winds; unsettled, fair to rainy; temperature rising.

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

FURTHER OUTLOOK.

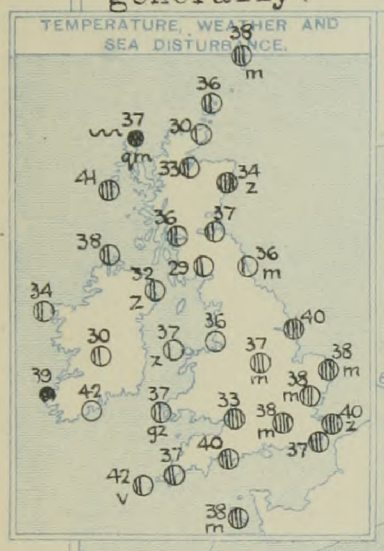
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 20TH FEBRUARY, 1915.

GENERAL INFERENCE.

A new depression approaching Ireland will occasion a renewal of less settled conditions over the country generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH 31 — 101cb — 29.83in — 100·5cb — 29.68in — 100cb — 29·53in — 99·5cb — 29·38 — 99cb — 20° — 29·09in — 29.24in — 32° — 28·94in — LOW 38 — 98cb — 37 — 32° — 34 — 28·94in — LOW — Bar. 40° falling — 98cb — 98·5cb — 99cb — Barometer rising — 99·5cb — 100cb — 100·5cb — 102·5cb — 102cb — 101·5cb — 101cb — 29·38in — 29·53in — 29·68in — 29·83in — 29·97in — 30·12in — 30·27in — HIGH — 99·5cb — 40° — 29·24in — 29·38in — Barometer steady.

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 FEBRUARY.

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. ⅋ thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

DAILY WEATHER REPORT.

Saturday, 20th February 1915.

REPORTS FOR YESTERDAY.

19th February 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	1014·3	21	S	2	0	1008·0	+3	23		SSE	2	–	S	*	–	25	14
Rome	1018·4	48	S	1	0	1011·3	+4	50	+11	SE	2	–	b	*	–	55	39
Horta	·	·	·	·	·	1029·1	0	59	0	W	4	*	c	3	–	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	1	44	39	cdv	cv	1·0
	Banff	–	42	32	mc.b	bmc f.	5·5
	St. Andrews	2	43	33	*	*	1·0
Eng., N.E.	Harrogate	2	46	37	cp.bc	bcp.b.	1·9
	Scarborough	*	45	38	c.b	o.c	2·6
	Skegness	1	48	39	o.bc	bc, cp.b.	3·3
Eng., N.W.	Morecambe	6	43	38	p.bc	p.bc	1·0
	Blackpool	2	44	39	or.cp	p.bc.c	1·5
	Southport	11	44	38	or.cr.o	cph.c.o.	1·0
Midlands.	Buxton	18	42	35	bcp	cp	0·7
	Leamington Spa	3	48	40	bc.cp	bc.cp	5·3
	Malvern	20	47	39	c.bc	bc	6·9
	Ross-on-Wye	7	49	41	bc	bc	3·6
Wales.	Rhyl	7	45	39	r.o.c	bc.o	2·2
	Colwyn Bay	8	50	39	or.c.o	ou.g	0·7
	Llandudno	5	45	42	o	o	0·0
	Aberystwyth	11	48	41	r.o.c	c.o	0·0
	Tenby	8	48	41	bc	b	6·4
	Swansea	4	48	41	bc.b	p.bcp	4·2
England, E.	Cromer	6	47	39	o.cr.o.c	bcp.c	1·6
	Lowestoft	4	46	40	c.cp.c	c.bc	3·1
	Felixstowe	5	45	41	bc	cp	2·3
	Walton-on-Naze	2	44	40	bc.c	or.bc	3·3
	Southend-on-Sea	1	47	41	b.bcp	bc.c.bc	3·2
England, S.E.	Tunbridge Wells	5	?46	40	o	bc.r.c	1·3
	Margate	2	46	41	c	c	0·7
	Ramsgate	6	45	41	o	cf	1·2
	Folkestone	2	45	42	o.bc	o.bc	0·4
	Hastings	2	46	42	cp.o.c	o.c.b	0·9
	Bexhill-on-Sea	2	46	42	or.o	o.c.bc	1·8
	Eastbourne	5	46	44	o.bc	bc.b.	0·5
	Seaford	3	46	40	or.o	o	1·3
	Brighton	7	46	43	c.bc.c	cp.o.c	2·2
	Worthing	2	48	42	c	c	3·2
	Littlehampton	–	46	*	bc.c	b	3·2
	Bognor	5	46	42	bcp	bc	4·1
	Southsea	4	50	42	c.b.	b.	3·5
	Bournemouth	4	50	41	r.cd.c	c	4·0
England, S.W.	Weymouth	5	51	43	bcp	bc	5·4
	Torquay	4	51	42	b	b.bc	7·2
	Paignton	3	51	42	bc	bc	6·5
	Falmouth	3	49	41	bc	bc	5·2
	Penzance	5	51	48	c	r.bc	6·0
	Newquay	2	47	43	b.p.	bc	5·2
	Ilfracombe	3	47	43	cp.bc	bc	4·2
	Weston-super-Mare	2	49	42	bcr.b.	b.bc	4·5

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.)	80	90	2·9	48	37	30	6	cp	cp.b.	b.bc.o
City (Bunhill Row)	*	*	1·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	96	2·1	49	37	33	3	r.berh	bc	bc.om
Camden Sq. (Brit. Rainfall)	80	87	2·7	49	37	32	4	or.c	c.or.bc	*
Hampstead (Reservoir)	*	90	3·2	47	35	26	3	chp.bc	c	cx.o
Richmond Park	*	*	2·4							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	89	1·7							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
432 Joules	11·8 Milliwatts.	41 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.	13	40	35	32	c.or	or	or	0·0
Manchester ,,	6	44	38	*	bc.c.or	or.c.o	o	0·2
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	9	52	41	36	c.cp	orc.bc	bc cp.o	*

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

20th & 21st Feb., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·2 / 7·0	12·7 / 12·7	5.12 / 5.14
Greenwich	7·7 / 7·5	12.16 / 12.16	5.21 / 5.23
Wick	7.35 / 7.32	12.26 / 12.26	5.7 / 5.26
Valencia	7.49 / 7.47	12.55 / 12.55	6.1 / 6.8

NOTES ON YESTERDAY'S WEATHER.

At a few southern stations temperature rose to 50° or 51°. Rain fell generally, but no large amounts were registered. Bright sunshine ranged from none at Castlebay, Llandudno and Aberystwyth to 7·2 hours at Torquay.

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. 52.

Sunday, 21st February, 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 ...	980·4	40	–	0	bcm	981·7	0	38	0	SE	1	–	bc	1	1	46	35	bc	bc	bcm	*
	Deerness ...	980·0	38	S	1	b	979·3	*	36	0	ESE	5	3E	c	4	1	43	36	bc b	b	b bcp. c	7·4
	Stornoway ...	984·3	38	N	6	cpq	980·5	−1	37	0	WNW	7	–	orq	6	14	41	34	or cpq	cpq	orsq	1·5
	Castlebay (Barra Isd.)	986·9	38	N	4	op	986·2	‡ −1	37	−4	W	5	–	op	5	1	44	35	c.op.c	c.op	bc op	4·8
	Glasgow ...	984·8	37	SW	2	c	988·2	0	34	−2	W	2	NW	bc	*	2	41	32	ocl.p	op	op.bc	0·4
	Eskdalemuir ...	986·0	37	SW	5	c	989·7	+1	29	0	S	2	–	b	0	1	41	27	bc b	bc c	cp. bc	5·4
	Malin Head ...	987·4	41	NNW	4	bcq	989·5	−1	37	−1	WNW	3	–	omr	5	2	43	35	cqq	bcq p	omp	2·4
	Blacksod Point	990·0	41	NNE	3	bcy	992·0	−2	35	+1	NNE	3	NE	cmp	3	3	43	?	bc	bc	bc. cmp	*
	Valencia ...	988·1	43	N	4	o	994·6	−1	37	−2	–	0	–	cp	3	12	45	33	cp	cpq	cp	0·7
	Roche's Point	988·6	43	SE	3	c	995·2	*	36	−6	NW	1	–	b	3	2	47	36	op	op. c	cp. bc	*
	Birr Castle ...	*						*							*							
	Donaghadee ...	986·7	40	WNW	4	cgm	990·0	+1	34	+2	NW	3	NW	bcyc	2	0·2	46	36	bc	cgmp	bcyc	*
	Liverpool (Bidston)	988·7	39	SW	1	b	992·0	+1	37	+1	WSW	3	SW	bc	2	1	44	36	bm	bc	bcp	6·3
	Holyhead ...	988·1	41	SW	3	by	992·1	+1	40	+3	WNW	4	–	b	3	–	46	35	b.bc b	b bc c.b	b bc.c.b	7·1
	Pembroke (St. Ann's)	988·3	42	SE	3	bc	993·9	+2	40	+3	SSW	1	S	cx	2	8	45	35	cqx	c	bc	4·9
	Scilly (St. Mary's)	984·6	44	SE	3	cp	995·4	+2	44	+2	NNW	3	NW	cp	4	1	49	41	bcv	bc	bcv.bc	5·3
	Falmouth ...	987·5	43	SSE	3	c	995·6	+4	37	0	N	2	–	bc	2	2	49	36	cph.bc	bc	bcx	5·7
	Jersey (St. Aubin)	989·9	44	SW	2	b	991·3	*	34	−4	S	3	–	b	2	Trace	48	33	b.bc	bc.b	bwx	6·3
	Portland Bill ...	989·0	43	SSW	2	b	994·0	+4	39	−1	NW	1	–	bx	4	–	49	35	bc	bc	b. bc	*
	Dungeness ...	989·3	41	NE	3	p	993·3	+2	32	−5	N	2	N	bx	1	0·2	45	32	cm.c	cp	bcm	*
	Dover	991·5	40	NW	3	bc	994·6	+2	35	−5	SW	2	–	bcq	2	4	50	32	mor.bc	bcm	c.b.bx	2·4
	Wick	980·5	37	W	1	o	978·2	−3	30	0	W	1	–	bc	3	–	44	29	bmx.b	bc.om	bcm	*
	Nairn	982·0	39	W	2	cg	981·2	*	36	+3	W	3	–	cw	3	0·4	42	32	bc.c	cgp	cpsq	2·6
	Aberdeen ...	981·7	40	SW	1	c	984·0	0	36	+2	SSW	4	–	o	2	Trace	47	32	op c.b	b.bc.c	cp.o	5·4
	Leith	983·8	40	WSW	3	o	987·1	0	38	−2	SW	3	–	b	*	–	46	34	bc.c	c.bc.c.o	0.c	*
	Tynemouth ...	986·1	40	W	2	bm	989·9	+2	34	−2	W	2	–	bm	2	–	45	33	bcm	bc	bcm	*
	Spurn Head ...	988·2	41	WNW	2	bc	990·8	0	35	−5	WNW	4	–	cmx	4	–	43	34	cm	bc	bc	0·5
	Yarmouth ...	989·3	40	–	0	cm	992·8	+2	35	−3	SW	2	SW	c	1	–	47	34	om.bcm	cm	f. c	4·1
	Clacton-on-Sea	987·7	42	–	0	cg	992·3	+3	34	−4	WNW	1	–	cx	0	–	46	34	c	c. cg	cgx	1·0
	Nottingham ...	989·0	40	W	1	b	992·0	*	34	−3	WSW	2	W	c	*	–	46	31	c. bcm	bc.bm	bcm	4·0
	Bath	989·5	42	W	1	b	994·9	*	27	−6	SE	?	–	b	*	–	49	26	om.bc b	bc.bm	b.om.b	7·6
	London (Kew Obsy.)	989·8	42	–	0	bm	994·1	+4	32	−6	SW	1	–	cmx	*	–	46	31	om.cm.o	o.c.bc bm	bm.+cmx	0·2
ICELAND, FAEROE, &c.	Spitsbergen ...	1013·5	−33	S	2	b	1014·1	−4	−31	0	–	0	*	b	*	*	−29	−35				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1003·8	21	E	3	c	998·9	−3	27	+8	ENE	6	–	S	4	*	27	7				
	Bodö	1000·2	14	E	4	b	992·7	0	12	−2	E	4	–	b	2	–	16	10				
	Christiansund	985·2	37	–	0	b	989·2	+3	36	+2	–	0	–	o	3	–	37	34				
	Skudesnaes ..	985·2	39	S	2	c	987·7	0	37	−2	S	4	–	c	2	2	41	37				
	Færder (Christiania Fjord)	989·6	34	SE	2	m	991·7	+2	34	−2	SE	1	–	b	1	5	36	32				
	The Scaw (Skagen)	989·0	36	SSE	3	m	991·0	+1	36	−1	SE	2	–	b	2	1	39	36				
	Blaavands Huk	989·0	37	S	1	b	990·9	0	34	−3	SSE	1	–	b	0	–	39	?				
	Haparanda ...	997·7	12	N	2	o	997·9	0	16	+9	N	2	–	o	*	?	16	7				
	Hernösand ...	995·7	16	–	0	o	996·3	0	21	+9	–	0	–	b	*	2	43	12				
	Stockholm ...	995·4	34	SSE	2	o	995·3	0	34	0	SE	2	–	b	*	–	36	32				
	Wisby	995·3	32	SE	2	b	996·1	−1	34	0	E	2	–	b	*	–	41	32				
	Karlstad	991·8	36	ESE	2	c	993·1	+1	34	−2	SE	2	–	b	*	1	39	32				
	Petrograd (5 a.m. G.M.T.)	1001·7	28	SSE	1	s	1003·3	0	28		SE	1	–	o	*	1	30	25				
FRANCE, &c.	The Helder ...	989·1	41	NNW	1	c	991·9	+3	37	−4	NW	1	–	c	2	–	43	37				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	989·6	40	ENE	3	c	993·0	+3	39	−2	NE	1	*	o	1	4	48	36				
	La Hève	992·3	40	WSW	3	o	994·3	*	32	−8	–	0	*	bc	1	–	50	30				
	Ushant							*					*									
	Brest (St. Mathieu)	989·5	50	WSW	3	bc	997·0	+7	40	−3	NNE	2	*	b	5	1	55	37				
	Rochefort (Ile d'Aix)	995·8	47	W	6	o	991·5	0	42	0	NW	2	*	r	*	8	50	41				
	Biarritz	999·3	48	W	7	r	999·0	0	45		WSW	7	*	r	7	5	48	45				
	Paris	990·3	41	NW	2	bc	994·6	+3	36	−3	S	2	–	o	*	–	46	36				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ..	996·0	48	NW	5	o	999·1	0	39	−6	W	1	–	bc	*	–	55	37				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1004·0	48	WSW	6	o	1008·4	+2	48		SW	4	–	r	5	16	54	45				
	Madrid (8 a.m.)	1005·7	43	W	3	c	1012·3	+3	37		S	2	–	bc	*	?	48	36				
	Lisbon (9 a.m.)	1013·1	55	W	5	o	1014·6	+2	52	−3	WNW	2	–	o	?	1	57	50				
	Gibraltar							*					*									
	Rome	994·7	54	SW	2	o	994·3	0	50	0	SW	2	–	o	*	18	57	37				
	Azores (Horta, 8 a.m.)	1025·6	*	SW	5	c	1024·2	0	60	+3	WSW	3	*	o	2	–	64	57				
	Madeira (Funchal)	1026·1	63	N	2	o	1026·3	0	69	0	N	2	–	o	3	–	66	59				

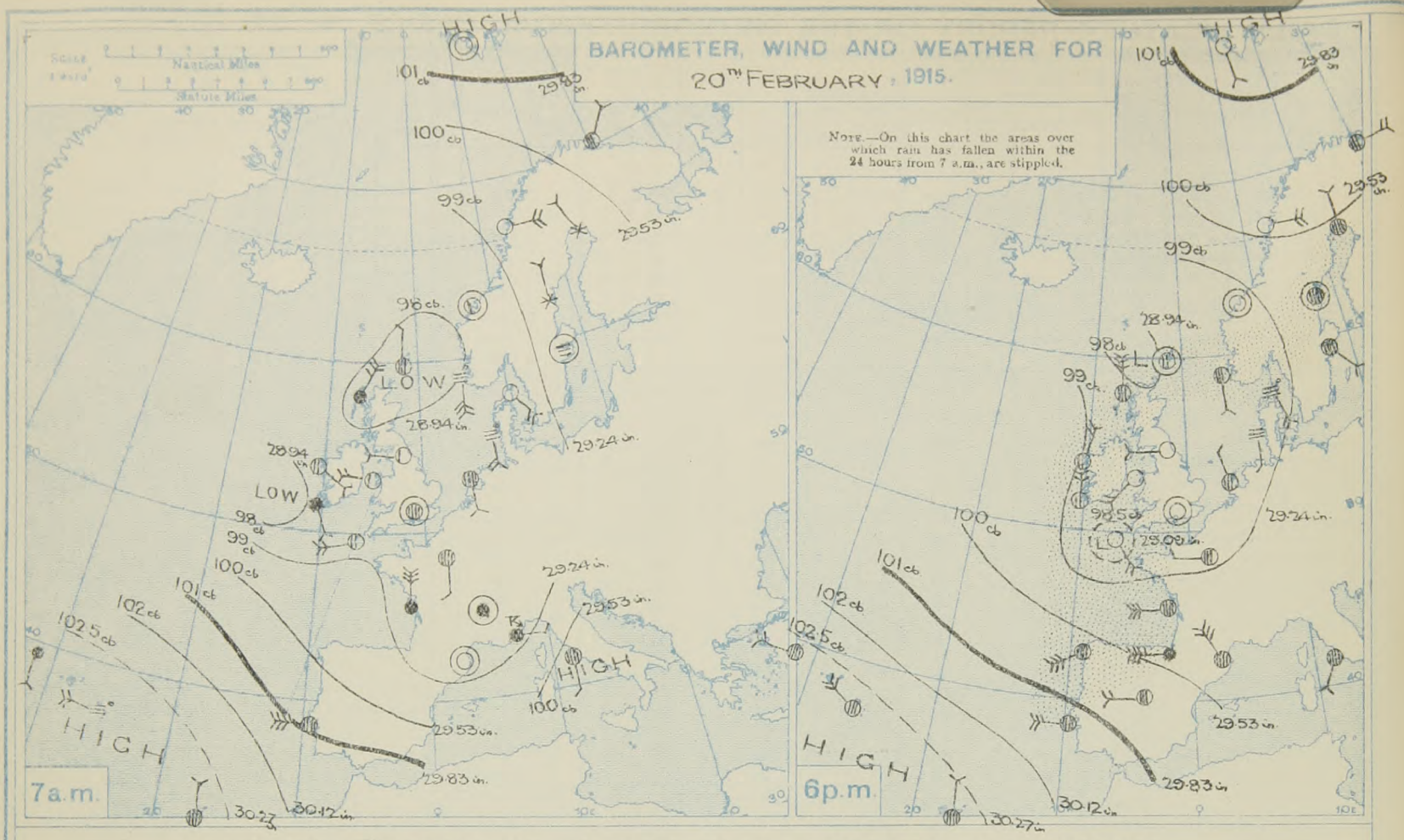
RAINFALL.

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

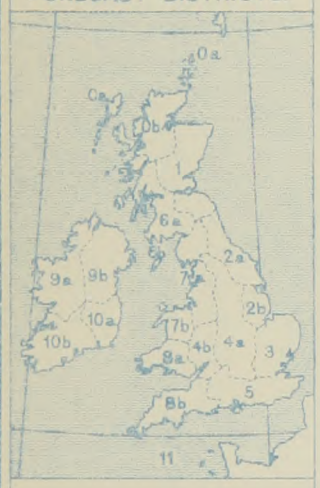
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 20TH FEBRUARY, 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.

0 {a, b} Cyclonic wind circulation, fresh to strong and squally at times; fair to dull, some rain or snow; cold to moderate temperature.

1, 2 {a, b} Light to moderate breezes, mainly Westerly to North-Westerly; fair to fine, local mist; moderate temperature.

3, 4 {a, b} Light to variable Westerly and North-Westerly breezes; fair to fine, local mist; moderate temperature.

5 Light variable North-Westerly and Northerly breezes; fair to fine, local mist; moderate temperature.

6 {a, b}, 7 {a, b} Same as Nos. 1 and 2.

8 {a, b} Same as No. 5.

9 {a, b}, 10 {a, b} Light breezes, mainly North-Westerly; fair to fine, local mist and showers; moderate temperature.

Western Channel and Bay 11

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 21ST FEBRUARY, 1915.

GENERAL INFERENCE.

A small depression over Caithness will occasion changeable conditions over northern Scotland, but generally fair, quiet weather is indicated.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

HIGH 101 cb. 29·83 in. Bar falling 100·5 cb. 29·68 in. 100 cb. 29·53 in. 99·5 cb. 99 cb. 98·5 cb. 98 cb. LOW 28·34 in. 29·09 in. 29·24 in. 99 cb. Bar falling 99·5 cb. Bar steady 100 cb. 100·5 cb. 101 cb. 101·5 cb. 102 cb. 102·5 cb. Barometer falling Bar steady HIGH 29·38 in. 29·53 in. 29·68 in. 29·83 in. LOW 29·38 in. 99·5 cb. 29·53 in. 29·68 in. 29·83 in. 29·97 in. 30·12 in. 30·27 in.

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 FEBRUARY.

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. Sunday, 21st February, 1915.

REPORTS FOR YESTERDAY.

20th February.

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.								
Haparanda	997.2	7	NE	4	o	998.1	o	7	o	NNW	2	-	s	-	4	9	5
Hernösand.	996.8	14	N	4	s	995.5	o	12	−4	N	2	-	s	-	7	16	12
Stockholm	995.5	34	S	2	o	994.3	o	34	o	-	o	-	-	+	-	36	32
Wisby	996.3	36	S	2	o	995.5	o	34	o	-	o	-	-	*	1	36	34
Karlstad	991.8	36	SSE	2	r	991.7	o	36	+2	ESE	2	-	bc	*	8	37	32
Nice	1001.0	42	-	o	o	998.8	−16	37	−5	E	1	-	th	5	16	46	37
Rome	1004.8	54	SE	1	r	1003.4	+2	50	o	S	1	-	o	+	6	59	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						
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	48	32	bc.b	bc.b	5.7
Eng., N.E.	Scarborough	*					
Eng., N.E.	Skegness	-	45	33	bc.f	o.cf	1.3
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool to 9 pm	1	45	37	bc	c.bc.b	7.9
Eng., N.W.	Southport	-	46	38	c.b	b	8.0
Midlands.	Buxton	-	43	33	b	b	6.6
Midlands.	Leamington Spa	-	47	36	c.bc	bc	3.8
Midlands.	Malvern						
Midlands.	Ross-on-Wye	-	48	35	c.bc	cg.c	4.6
Wales.	Rhyl	-	46	32	bc	bc	5.6
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	-	45	34	o.c.b	bc.c	6.5
Wales.	Tenby	1	45	31	b	p.bc	6.3
Wales.	Swansea						
England, E.	Cromer	-	45	37	o.c.bc	bc.c	4.0
England, E.	Lowestoft						
England, E.	Felixstowe	-	45	37	c	c	1.4
England, E.	Walton-on-Naze	-	?	35	c.b.o.bc	o.c	0.5
England, E.	Southend-on-Sea	-	46	38	o.c.bc.c	c.bc.o.c	1.2
England, S.E.	Tunbridge Wells	0.3	47	36	m.c.o.c	bcm.bc	2.2
England, S.E.	Margate	-	44	41	cg.c	c.o	0.1
England, S.E.	Ramsgate	-	?	38	m.c	cm	0.2
England, S.E.	Folkestone	-	45	42	b.o	b.o.c	3.6
England, S.E.	Hastings	-	48	39	b.bc	c.b	2.5
England, S.E.	Bexhill-on-Sea	-	47	38	c	bc	2.6
England, S.E.	Eastbourne	-	48	38	c.bc	c.bm	3.5
England, S.E.	Seaford	-	48	38	bc	bc	5.1
England, S.E.	Brighton	0.3	48	37	bc.c	bcr.c	3.7
England, S.E.	Worthing	-	51	34	b	o	5.7
England, S.E.	Littlehampton	2	48	31	b	b	5.4
England, S.E.	Bognor	-	49	37	b	b	5.6
England, S.E.	Southsea	-	48	36	bc	b	6.7
England, S.E.	Bournemouth	-	48	36	bc.b	b	6.7
England, S.W.	Weymouth	-	52	36	g.bc.b	b.bc.g	6.6
England, S.W.	Torquay	-	49	36	c.o	b.bc.b	3.3
England, S.W.	Paignton						
England, S.W.	Falmouth	2	49	37	cph.bc	bc	5.7
England, S.W.	Penzance	1	50	36	bc	bc	7.0
England, S.W.	Newquay	2	48	37	bv.cp	bv.cp	6.6
England, S.W.	Ilfracombe	0.3	47	36	c.bc	bc	6.0
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.)	76	74	0.0	44	28	22	-	cqf	fg.of	b.bcm
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	65	96	0.2	46	28	27	-	o.bc	o	bcx.bc
Camden Sq. (Brit. Rainfall)	65	81	0.0	47	29	23	-	cm.c	c.o	*
Hampstead (Reservoir)	*	77	0.4	45	30	14	-	c.o.b	cx	bcf
Richmond Park	*	*	0.3							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	70	80	0.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
398 Joules	10.8 Milliwatts.	23 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.	-	43	32	28	bc.c	bc	bc	*
Darwen to 9 p.m.	0.3	43	33	30	bc.orh	bc	bc	6.5
Manchester ,,	-	46	36	*	cf	o.c	bc.c	4.8
Birmingham ,,	-	46	36	31	*	c	c	3.6
Oxford to 9 p.m.	*	47	32	23	bc.b.og	og.cbq	bcm	*
Teignmouth to 9pm.	0.3	49	35	32	bqp.bc	bc	bqp	2.8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	46	38	33	bc	c.o	o.bcy	*

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

21st & 22nd Feb 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.0 / 6.58	12.7 / 12.7	5.14 / 5.16
Greenwich	7.5 / 7.3	12.14 / 12.14	5.23 / 5.25
Wick	7.32 / 7.30	12.26 / 12.26	5.20 / 5.23
Valencia	7.47 / 7.45	12.55 / 12.55	6.3 / 6.5

NOTES ON YESTERDAY'S WEATHER.

At a few southern stations temperature rose to between 50° and 52°. Rain fell in many localities, about ½ in. at Stornoway and Valencia. There was bright sunshine nearly everywhere, ranging up to 8 hours at Blackpool and Southport.

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. 53 [22nd February, 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 ...	982.9	40	SSW	4	cm	984.0	0	36	−2	N	1	–	bc	1	5	42	34	bchp	cp	besp	*
	Deerness ...	979.0	38	SSW	5	o	982.0	*	35	−1	E	1	–	c	2	Trace	41	34	cp	o	o.c	1.5
	Stornoway ...	980.6	37	N	3	bc	987.5	+7	37	0	N	8	N	cg	6	5	41	36	cpcg	c.bc	c.o.cdpg	1.5
	Castlebay (Barra Isd.)	981.0	38	W	5	cp	989.3	+7	39	+2	N	6	–	c	6	1	41	35	chp.c.o	o.bc.dp	dp.bc.o	1.5
	Glasgow ...	986.3	35	SW	2	bc	985.4	+1	33	−1	SSW	3	–	o	*	1	39	32	bcrop	ors.cp	c.b.osp	3.6
	Eskdalemuir ...	988.2	30	SSW	1	cm	987.1	0	30	+1	SW	2	SW	o	*	1	37	27	bc.ors	ors.cm	cm.c	0.2
	Malin Head ...	986.6	39	W	5	bcq	984.2	+5	37	0	NW	7	–	cirrq	6	6	40	35	bcq	bcqp	cmqr	5.4
	Blacksod Point	989.9	33	WNW	4	cpo	989.1	+9	35	0	NNE	9	NE	cm	7	14	42	32	bc	bcph	cpo	*
	Valencia ...	991.2	42	WNW	3	bc	992.2	0	37	0	N	3	–	fbr	4	3	45	35	cp	c.b	bcp	3.9
	Roche's Point	992.2	42	NW	3	c	992.0	*	36	0	W	3	W	c	2	–	46	34	bc.c	c	c.b.bcc	*
	Birr Castle ...							*							*							
	Donaghadee ...	988.1	34	WSW	3	bc	986.3	0	30	−4	SW	3	SW	cmx	2	4	37	28	oo	bcm	bcmx	*
	Liverpool (Bidston)	989.7	38	WSW	3	r	987.7	−1	33	−4	SW	1	–	b	2	2	45	32	b	bcp	bzc	4.4
	Holyhead ...	989.5	41	W	4	bc	987.2	−1	37	−3	WNW	3	NW	cg	1	Trace	46	38	bc.bc.c	c.b.cp.c	b.bcph	4.0
	Pembroke (St. Ann's)	990.9	41	WSW	1	bc	988.8	+1	39	−1	WNW	4	NW	bcv	4	5	45	35	chx	bc	bcsq.bcp	6.2
	Scilly (St. Mary's)	991.9	44	W	2	c	990.1	+2	46	−4	NNW	6	NW	cp	5	3	49	40	bcp	bc	bcv.cp	6.6
	Falmouth ...	992.2	43	SW	2	b	989.6	+3	38	+1	NW	2	–	o	3	1	49	36	b	bc	bc.or.o	5.9
	Jersey (St. Aubin)	995.7	45	SW	3	b	988.4	*	38	+4	ENE	3	–	cm	2	–	49	38	b	b	c.o	9.3
	Portland Bill ...	994.0	44	WSW	3	bc	988.0	+1	40	+1	WNW	2	–	cr	3	1	47	39	bc	bc.b	bc.cr	*
	Dungeness ...	994.8	43	SW	3	b	989.2	+1	41	+3	S	3	S	bcg	3	0.3	46	32	bm	bg	bcg	*
	Dover	994.6	41	SW	4	b	989.8	−1	40	+5	S	1	S	bc	3	1	47	34	bzg	bc	b.bcg	8.3
	Wick	979.5	36	SW	2	o	981.5	+2	35	+5	–	0	–	o	2	1	41	30	bc.cm	cm	bc.opm	*
	Nairn	980.9	35	WSW	2	c	983.1	*	37	+1	W	2	–	cu	2	–	41	34	bc.rg	bcqg	cg	5.2
	Aberdeen ...	983.6	37	SSW	3	bc	983.1	0	36	0	SW	4	–	o	2	–	42	32	0.b	b.bc	bc.co	7.0
	Leith	985.6	38	SW	2	bc	984.5	0	36	+1	SW	3	W	bc	*	–	42	34	b.bc	bc.c	c.bc	*
	Tynemouth ...	988.4	40	W	3	cmcl	987.3	0	30	−4	W	2	–	bm	2	2	42	29	bcm	bc	bm	*
	Spurn Head ...	992.3	39	SW	4	c	987.5	−4	36	+1	SW	3	–	cp	4	0.3	43	34	bcm	bcm	bc	6.6
	Yarmouth ...	993.4	41	WSW	1	f	988.5	−2	38	+3	SW	2	SW	bc	1	–	46	35	c.bc	bcf	bc	5.0
	Clacton-on Sea	992.9	42	W	1	cg	988.6	−2	41	+7	S	1	S	bc	1	–	47	33	0.bcg	bc.cg	c.bg.bc	3.4
	Nottingham ...	991.5	38	S	2	b	987.8	*	36	+2	SW	1	SW	cm	*	–	46	32	c.bc	bc.b	b	6.1
	Bath	993.5	39	S	2	c	988.9	*	37	+10	SW	1	SW	c	*	4	49	27	m.b.bc	bc.crh	r.o.c	5.6
	London (Kew Obsy.)	993.7	42	SW	1	bm	988.9	−1	34	+2	–	0	SW	cm	*	Trace	47	31	bcm.b.bc	bc.b.bc	bm.bc.cm	5.6
Iceland, Faeroe, &c.	Spitsbergen ...	1015.1	−31	–	0	b	1015.6	0	−24	+7	–	0	*	b	*	*	−24	−35				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...		*										*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
Northern Europe.	Vardö	997.0	19	S	2	o	998.1	0	15	−12	NW	5	–	b	4	*	27	15				
	Bodö	995.9	14	E	1	b	995.4	0	21	+9	E	3	–	b	2	–	21	10				
	Christiansund	990.7	36	–	0	b	989.7	0	36	0	–	0	–	c	3	–	39	36				
	Skudesnaes ..	989.1	39	SSE	4	c	989.0	0	37	0	SSE	4	–	o	2	–	39	36				
	Færder (Christiania Fjord)	992.7	32	–	0	f	992.6	0	34	0	SE	1	–	o	1	3	34	32				
	The Scaw (Skagen)	992.0	36	–	0	f	992.3	0	34	−2	SSW	1	–	f	0	–	37	34				
	Blaavands Huk	993.0	36	S	1	f	991.7	0	34	0	S	1	–	f	1	–	36	30				
	Haparanda ...	998.7	30	SSE	2	o	1000.6	+1	28	+12	SSE	2	–	f	*	Trace	32	16				
	Hernösand ...	996.6	32	–	0	s	994.6	0	30	+9	N	2	–	c	*	Trace	32	21				
	Stockholm ...	994.6	32	ENE	2	o	991.3	0	30	−4	N	2	–	s	*	–	34	30				
	Wisby	997.7	34	ENE	2	o	989.0	0	34	0	NE	4	–	o	*	–	36	32				
	Karlstad	993.9	34	E	2	o	992.8	0	34	0	–	0	–	o	*	–	45	32				
	Petrograd (5 a.m. G.M.T.)														*							
France, &c.	The Helder ...	993.7	39	S	1	bc	991.7	0	32	−5	SSE	2	–	f	1	–	43	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	994.1	43	SW	4	b	989.1	−1	36	−3	SE	4	*	bc	2	–	45	36				
	La Hève	995.5	41	S	1	bc	989.5	*	30	−2	ENE	2	*	f	1	–	48	28				
	Ushant							*					*									
	Brest (St. Mathieu)	994.6	46	W	2	o	991.0	+7	43	+3	N	3	*	c	3	–	56	39				
	Rochefort (Ile d'Aix)	998.9	44	W	3	o	993.0	−11	44	+2	SE	5	*	r	*	12	50	43				
	Biarritz												*									
	Paris	997.2	37	S	2	b	988.3	−4	34	−2	ENE	1	–	o	*	2	45	30				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	995.7	44	W	4	b	993.1	−5	37		E	3	*	o	5	–	55	36				
	Perpignan ..	1000.7	52	SW	3	b	983.1	−11	39	0	SW	2	–	b	*	–	57	37				
	Sanguinaire ...							*					*									
Southern Europe.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.) †	1013.0	55	W	5	r	1013.9	+4	52		NW	4	–	b	*	1	57	52				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1022.7	*	W	5	bc							*									
	Madeira (Funchal)	1025.0	61	N	2	o	1024.7	0	61	+2	N	3	–	o	2	–	63	59				

GALES.

Duration and Extreme Force in British Islands.

Stornoway.

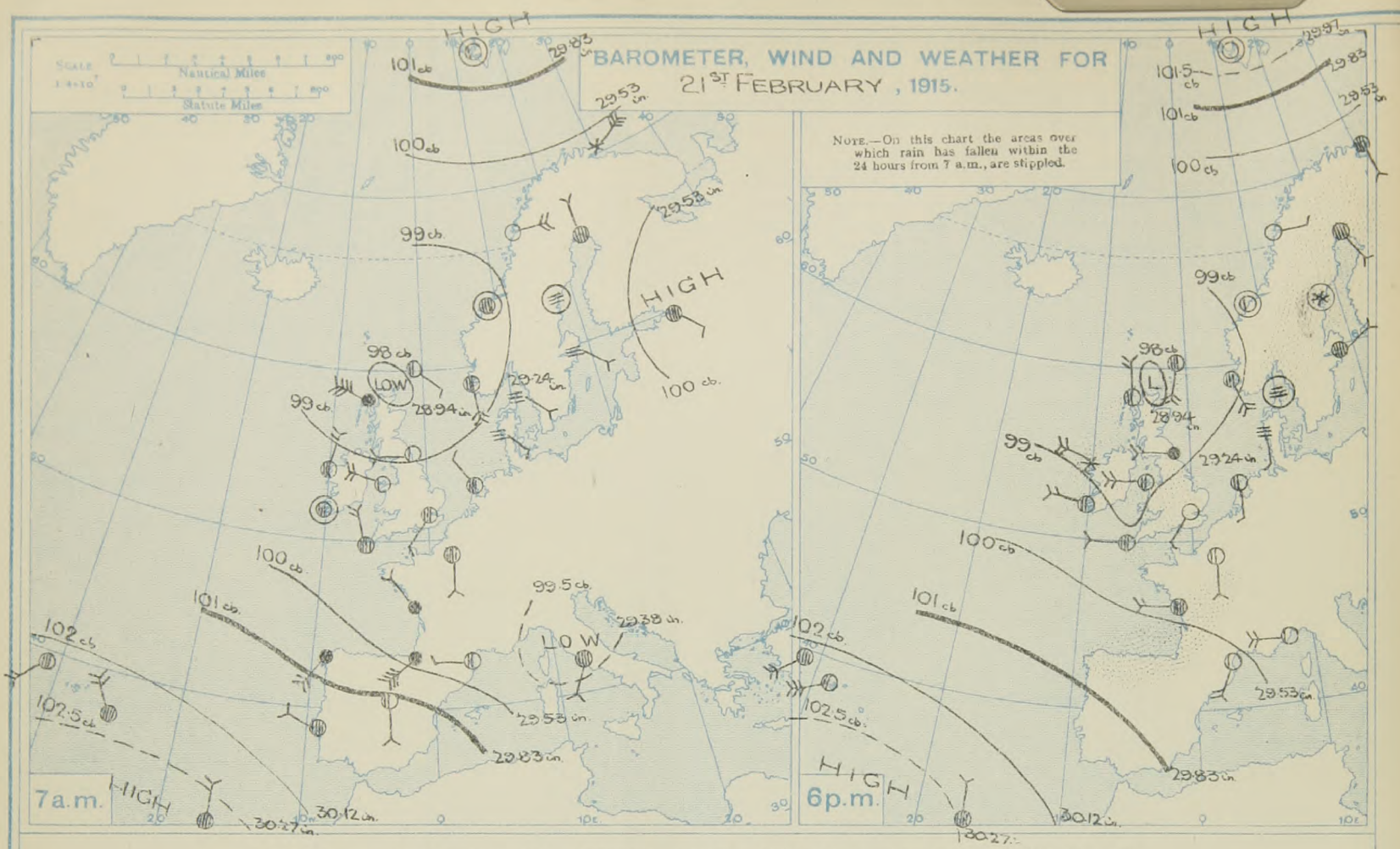
22nd Midf–7am. N 8, squalls 9

Blacksod Point

22nd 7am NNE 9.

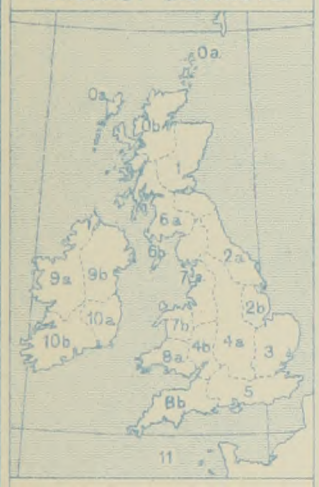
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 21ST FEBRUARY, 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} Northerly winds, strong in places; cold, changeable, some snow or sleet showers.

1, 2 {a b} Light South-Westerly winds and fair weather, followed by freshening Northerly and North-Westerly winds, with snow or sleet showers.

3, 4 {a b}, 5 Variable breezes and fair weather, followed by freshening Easterly and North-Easterly winds, with some rain or sleet.

6 {a b}, 7 {a b}, 8 {a b} Northerly winds, freshening; changeable, showery, snow or sleet in places.

9 {a b}, 10 {a b} Same as No. 0.

11 Strong Northerly and North-Easterly winds; very rough sea; cold, unsettled, some rain or sleet.

FURTHER OUTLOOK.

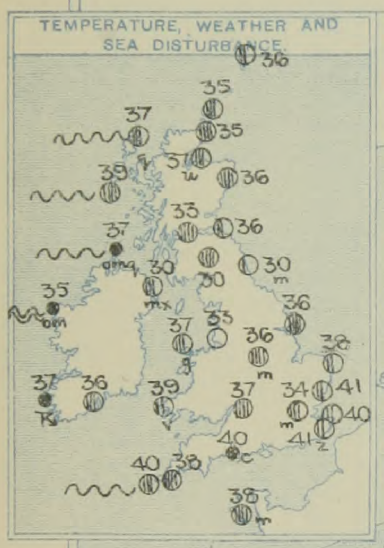
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 22ND FEBRUARY, 1915.

GENERAL INFERENCE.

The depression over Western France will probably spread northwards and occasion freshening Easterly and North-Easterly winds on our southern coasts.



HIGH 101·5 cb. 29·97 in. 29·83 in. 29·68 in. 101 cb. 100·5 cb. 100 cb.

99·5 cb. 99 cb. 98·5 cb. 98 cb. 97·5 cb. 100·5 cb. 101 cb. 101·5 cb. 102 cb.

LOW Bar. rising

LOW Bar. falling

HIGH

22° 28° 29·53 in. 32° 29·38 in. 42° briskly 29·24 in. 29·09 in. 28·94 in. 28·79 in. 29·67 in. 29·83 in. 29·97 in. 30·12 in.

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 FEBRUARY.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

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.
		Eskdalemuir 15th 10 p.m.			South Famborough 16th 10.35 a.m.		South Famborough 20th 10.40 a.m.														
Heights in Kilometres.	4			+6	−1																
	3			+6	−2																
	2	+1	−7	+5	+3	+6	+5														
	1	−6	−8	+3	+5	+3	−1														
	0·5	−1	−3	+3	+5	+2	−3														
	0	0	−2	0	+3	+1	−1														

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	0·3	43	34	b	csp	4·6
Scotland.	Banff						
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	–	44	31	c.bc	b.bc	5·4
Eng., N.E.	Scarborough	*	45	33	–	–	7·5
Eng., N.E.	Skegness	–	46	31	c.b	b.bc	5·3
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool	2	44	36	bc.b	c.oprh	5·0
Eng., N.W.	Southport	3	44	31	c.b	bc.orh	4·6
Midlands.	Buxton						
Midlands.	Leamington Spa	–	45	27	bc	bc.c	5·5
Midlands.	Malvern	–	45	35	bc	bc	7·0
Midlands.	Ross-on-Wye	–	47	26	bc.bc	c	5·2
Wales.	Rhyl	1	46	31	.bc.	c.bc.r	4·6
Wales.	Colwyn Bay	0·3	?	37	b.bc.b	b.bc.c	5·0
Wales.	Llandudno	1	46	38	b	b.c	6·6
Wales.	Aberystwyth	1	45	34	o.c.b	bc.r	6·5
Wales.	Tenby						
Wales.	Swansea	2	49	32	bc.b	h.bc	4·8
England, E.	Cromer	–	48	36	b.bc	bef.c	5·0
England, E.	Lowestoft	–	47	34	b.bc	bc	5·3
England, E.	Felixstowe	–	47	33	bc	bc	3·9
England, E.	Walton-on-Naze	–	?	?	g.c.b	bg.bc	3·3
England, E.	Southend-on-Sea	–	49	32	b	b.bc	7·5
England, S.E.	Tunbridge Wells	–	49	29	m.b	b.bc.b	7·8
England, S.E.	Margate	–	47	35	m.b	b	4·8
England, S.E.	Ramsgate	–	46	33	bc	bc	7·1
England, S.E.	Folkestone	–	48	36	b.o	b	7·8
England, S.E.	Hastings	–	48	35	b	b	8·6
England, S.E.	Bexhill-on-Sea	–	47	?	b	b	8·0
England, S.E.	Eastbourne	–	47	30	b	b	8·4
England, S.E.	Seaford						
England, S.E.	Brighton	–	42	31	bm.b	bc.c	9·0
England, S.E.	Worthing	–	49	29	b	b	9·2
England, S.E.	Littlehampton	–	46	25	b	b	9·1
England, S.E.	Bognor	0·3	47	31	b	b	9·0
England, S.E.	Southsea	–	49	30	b	b	7·6
England, S.E.	Bournemouth	–	49	28	b	b	8·5
England, S.W.	Weymouth	–	50	31	x.g.b	b.bc	8·1
England, S.W.	Torquay	–	49	32	b	b.bc	7·3
England, S.W.	Paignton						
England, S.W.	Falmouth	–	49	36	b	bc	5·7
England, S.W.	Penzance						
England, S.W.	Newquay	0·3	43	30	b	bg	6·6
England, S.W.	Ilfracombe						
England, S.W.	Weston-super-Mare	–	49	28	b	bp.bc	5·7

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.)	58	88	7·0	48	34	28	–	b	b.o	b.bcx
City (Bunhill Row)	*	*	4·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	59	96	5·1	49	32	30	1	bc	bc.m	m.od
Camden Sq. (Brit. Rainfall)	–	94	5·3	48	33	28	–	–	–	*
Hampstead (Reservoir)	*	91	6·9	46	33	22	–	bc	cx.f	bcf
Richmond Park	*	*	6·7							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	–	88	5·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
601 Joules	16·2 Milliwatts.	35 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	41	32	29	bx.c	c.b	ph.c.b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	–	45	32	23	*	c.b	c	7·7
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	–	51	32	29	b	b	bc.cp	6·5
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	48	32	23	bg.x	b.bc.o	bc.c	*

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

22nd & 23rd Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·58 / 6·56	12·7 / 12·7	5·16 / 5·18
Greenwich	7·3 / 7·1	12·14 / 12·14	5·25 / 5·27
Wick	7·30 / 7·27	12·26 / 12·26	5·23 / 5·25
Valencia	7·45 / 7·43	12·55 / 12·55	6·5 / 6·7

NOTES ON YESTERDAY'S WEATHER.

Over the northern parts of the United Kingdom the thermometer failed to reach 45°. The duration of bright sunshine was as a rule large; on the Sussex coast it amounted to about 9 hours. Slight rain was experienced in a few isolated districts.

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. 54.

Tuesday, 23rd February 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 (1–9).	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 ...	987·0	37	N	1	bc	999·9	+8	34	−2	N	7	–	o	6	5	40	32	bcp	bc	os	*
	Deerness ...	988·1	35	W	H	bp	1000·7	*	31	−1	N	6	–	o	5	6	40	34	c.b	bcp.b	cphr.co	3·3
	Stornoway ...	994·2	35	N	5	cqsp	1005·7	+7	30	−7	N	6	–	cq	5	4	38	29	oqsp	cpsq	opsq.c	1·2
	Castlebay (Barra Isd.)	996·3	35	NW	H	bchp	1005·9	+5	32	−7	NNE	3	–	b	3	0.2	39	29	bc.ohp	sh.bcp.	bcps.b	2·5
	Glasgow ...	992·7	35	W	2	b	998.5	+4	33	0	NNW	4	–	o	*	1	42	30	sp.o.c	c.bc.bz	bc.ohp	3·9
	Eskdalemuir ...	992·4	33	WNW	4	b	998.2	+2	29	−1	SW	3	NW	c	*	–	40	27	o.c	c.bc	bc.bz	3·3
	Malin Head ...	996·6	37	N	8	cq	1003.8	+2	37	0	NNW	8	NW	cpsq	7	2	39	32	bcq	cqp	cqr	3·5
	Blacksod Point	1002·0	36	NNE	5	cps	1008.3	+5	36	+1	NNE	4	NE	cps	3	3	44	31	bcp	cps	bc.cps	*
	Valencia ...	1003·0	40	N	3	c	1010·1	+5	39	+2	N	2	–	bx	3	6	44	31	optlh	cph	c.bhps	2·0
	Roche's Point	1001·6	41	NNW	3	c	1009.2	*	33	−3	NNW	3	–	b	2	2	43	32	osp.c	c	bc.bx	*
	Birr Castle ...	1002.2	32	N	1	c	1008.2	*	28		NW	1	–	bc	*	2	41	28	osp.o	c	bc	5·3
	Donaghadee ...	995·0	38	NNW	6	bcmq	1001.2	+3	37	+7	NNW	5	NW	cphaq	4	2	41	29	cmqps	bcq	cpmsq	*
	Liverpool (Bidston)	993·4	37	WNW	2	o	999.8	+2	32	−1	WSW	4	NW	bc	3	3	41	30	b	bc.o	c.osh	5·5
	Holyhead ...	993·9	40	N	8	cgq	1001·3	+3	35	−2	NNW	5	–	osq	5	2	42	33	x.bch	cgqp	bc.qs	4·8
	Pembroke (St. Ann's)	994·2	35	NNW	4	c	1004·6	+1	37	−2	NW	5	NW	cq	4	6	42	33	bcr	bc	cqs.r	5·0
	Scilly (St. Mary's)	996·8	40	NNW	7	cqp	1006.3	+3	37	−3	WNW	3	NW	cpq	4	3	45	36	cqph.	cqp	cpq.bc	3·7
	Falmouth ...	995·4	37	NNW	3	b	1005·8	+3	35	−3	NW	3	–	bc	3	6	44	35	bqph	oprh.	pha.bc	3·8
	Jersey (St. Aubin)	992·7	42	W	2	o	1004.1	*	40	+2	WNW	3	NW	bc	3	4	46	36	c.op	op.c.o	op.bc	2·6
	Portland Bill ...	992·2	40	SW	3	bc	1002·6	+4	38	−2	NW	5	–	b	4	7	43	35	cr	c	bc.b	*
	Dungeness ...	991·4	43	SW	2	bc	999.1	+4	36	−5	NNW	2	N	c	2	–	45	34	bc	bc	bc.c	*
	Dover	992·5	40	SW	1	bz	999.5	+5	35	−5	NW	4	W	c	2	Trace	45	34	bz.c	c.bc.b	bz.o	2·5
	Wick	988.0	34	NNW	3	s	1001.0	+9	35	0	NNW	5	–	o	5	7	41	30	omp.c	omrs.p	ucs.om	*
	Nairn	991·0	35	NNW	3	bcq	1001.1	*	35	−2	NNE	5	–	oqu	5	9	40	30	oprs	cq.bc	sq.c	1·1
	Aberdeen ...	988·4	37	NW	5	cqp	998.5	+6	35	−1	N	4	–	orsp	3	3	41	31	o.c	bc.cqp	opq.b	3.5
	Leith	990·9	39	WSW	2	b	997.9	+3	31	−5	WSW	2	N	bc	*	–	43	30	bc.cbc	bc.b	b.bc.c	*
	Tynemouth ...	989·6	38	WNW	2	cm	997.7	+2	30	0	WNW	3	–	bcm	2	–	42	30	bm	bm	bcm	*
	Spurn Head ...	992·2	39	ENE	2	bc	997.8	+2	34	−2	NNW	5	–	bc	4	–	42	32	cm	bc	bcx	4·7
	Yarmouth ...	991·0	40	–	0	o	998.8	+3	33	−5	W	2	W	bcm	1	6	45	32	bc.cph	cth.o	om.bcm	1·1
	Clacton-on-Sea	990·7	40	WNW	2	oq	998.5	+5	35	−6	NW	2	–	ogm	1	0.3	45	34	bc	bc.c.oq	ogdm	5·8
	Nottingham ...	992·6	39	N	1	o	999.6	*	31	−5	W	2	W	bc	*	1	43	30	o.cm	cgmp	omuc	0·7
	Bath	993·3	36	WNW	1	r	1003.0	*	32	−5	NW	2	W	bc	*	17	40	30	ors	or	ors.bc	0·0
	London (Kew Obsy.)	992·0	38	E	1	cm	1001·2	+5	35	+1	WNW	3	–	o	*	2	44	34	cm.of	omd.ond	oc.cm	omod.o	0·0
ICELAND, FAEROE, &c.	Spitsbergen ...	1015·9	−17	–	o	b	1017·0	+1	−16	+8	–	o	*	c	*	*	−16	−24				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*		*	*				
	Seydisfjord ...												*		*		*	*				
	Thorshavn ...												*		*		*	*				
NORTHERN EUROPE.	Vardö	999·8	18	SW	2	b	1006.3	0	27	+12	NNE	1	–	c	3	*	27	12				
	Bodö	995·3	30	NE	2	b	996·7	+1	28	+7	ENE	4	–	b	2	–	30	19				
	Christiansund	992·3	34	–	o	b	996·6	+3	30	−6	–	o	–	b	3	–	41	28				
	Skudesnaes ..	991·3	37	SE	4	s	995.5	+1	32	−5	–	o	–	s	2	–	41	32				
	Færder (Christiania Fjord)	994·1	34	–	o	m	997·3	+2	30	−4	W	1	–	f	1	–	34	30				
	The Scaw (Skagen)	993·9	34	S	1	o	997.0	+3	34	−0	–	o	–	o	o	–	36	32				
	Blaavands Huk	992·8	36	SSW	1	m	998.0	+4	34	0	SSW	2	–	f	1	–	39	32				
	Haparanda ...	998·3	30	NE	2	o	997·3	0	27	−1	NE	6	–	s	*	1	30	27				
	Hernösand ...	995·0	28	–	o	o	995·7	0	28	−2	N	2	–	o	*	3	32	28				
	Stockholm ...	990·7	30	NNW	2	s	993.2	+2	28	−2	NNW	2	–	o	*	3	32	28				
	Wisby	990·7	34	N	4	o	994·4	+3	32	−2	NNW	4	–	o	*	1	34	32				
	Karlstad	993·9	34	–	o	o	997·3	+1	32	−2	ENE	2	–	o	*	Trace	30	30				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	992·4	34	ENE	1	f	998·1	+5	32	0	SSE	1	–	f	0	–	36	30				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	992·6	41	SSW	3	o	998·7	+4	37	+1	N	5	*	r	3	3	46	34				
	La Hève	994·1	39	NW	2	bc	999·4	*	36	+6	NNW	6	*	m	6	1 .	46	30				
	Ushant	1001·2	46	NW	7	c	1006.6	*	43		NNW	4	*	c	4	–	48	39				
	Brest (St. Matheiu)	995·4	45	WNW	6	c	1007·8	+5	39	−4	N	2	*	c	5	–	52	39				
	Rochefort (Ile d'Aix)	1011·1	45	NW	6	o	1005·5	+4	44	0	NNW	7	*	c	*	1	46	41				
	Biarritz												*									
	Paris	993.1	37	NNW	2	o	999.5	+4	36	+2	W	1	–	o	*	–	37	30				
	Belfort	987·8	37	ENE	4	o	997·2	*	32		W	4	*	s	*	–	39	30				
	Lyons	987·7	37	WNW	7	o	1001.1	*	32		N	1	*	s	*	9	44	32				
	Nice	985·2	37	–	o	c	988·0	+3	42	+5	NW	6	*	c	7	12	43	34				
	Perpignan ..														*							
	Sanguinaire ...	986·6	50	W	7	f	989·2	*	48		NW	8	*	m	8	10	55	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1023·0	*	SW	4	c	1019·8	0	61·0	0	SW	5	*	o	3	–	63	59				
	Madeira (Funchal)	1024·7	63	N	3	o	1025.6	0	57·5	−6	NNE	3	N	b	2	–	63	55				

GALES.

Duration and Extreme Force in British Islands.

Malin Head.
22nd 8am - 23rd 7am N. 9 at 11am

Blacksod Point.
22nd 7am - 8am NNE 9.

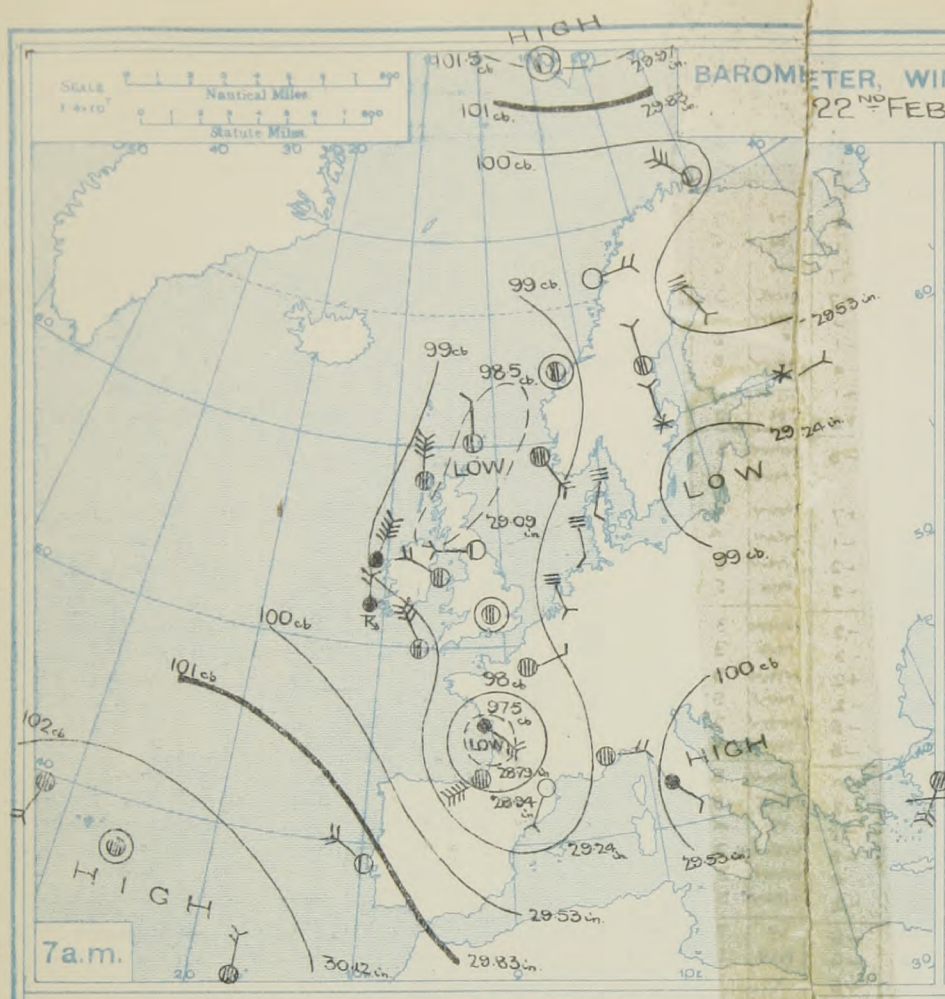
Holyhead
22nd 6pm N. 8

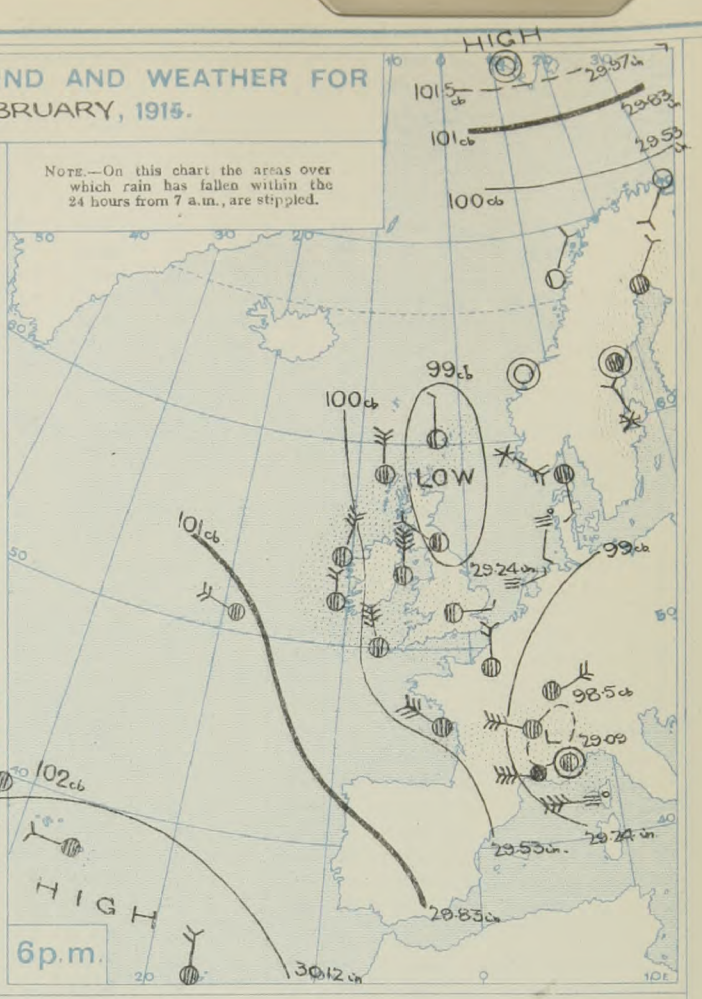
Scilly.
22nd 1pm - 4pm. NNW 9 at 3pm.
gust NNW 33 mps at 1pm.

A violent cyclone passed over the neighbourhood of Perpignan yesterday, from 1pm – 3.30pm. Six squalls, varying from 38 to 50 metres per second, were experienced.

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

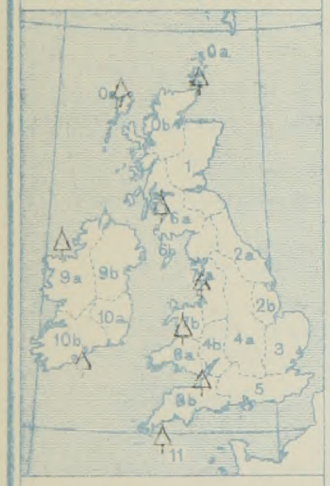
BAROMETER, WIND AND WEATHER FOR 22ND FEBRUARY, 1915.





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.

Cones Hoisted at 8.40 p.m.

Western Channel and Bay 11

0 {a b} 1 {a b} 2 {a b} Moderate or fresh Northerly winds; unsettled at first, with showers of snow or sleet, improving later; frost to-night.

3 {a b} 4 {a b} 5 Light to moderate Westerly and North-Westerly winds; fine at first, unsettled later, with local showers of snow or sleet; remaining cold.

6 {a b} 7 {a b} 8 {a b} Northerly and North-Westerly winds, decreasing in strength; unsettled at first, with showers of snow or sleet, improving later, frost to-night.

9 {a b} 10 {a b} Wind falling light and shifting to the South-Westward or Southward; fair generally; frost to-night.

11 Strong North-Westerly winds and a rough sea, both moderating later; fair; cold.

FURTHER OUTLOOK.

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

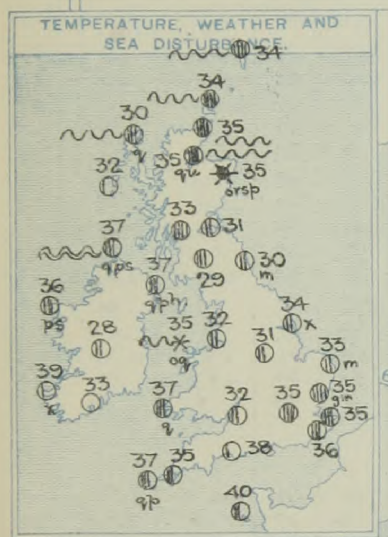
W. N. SHAW. Director

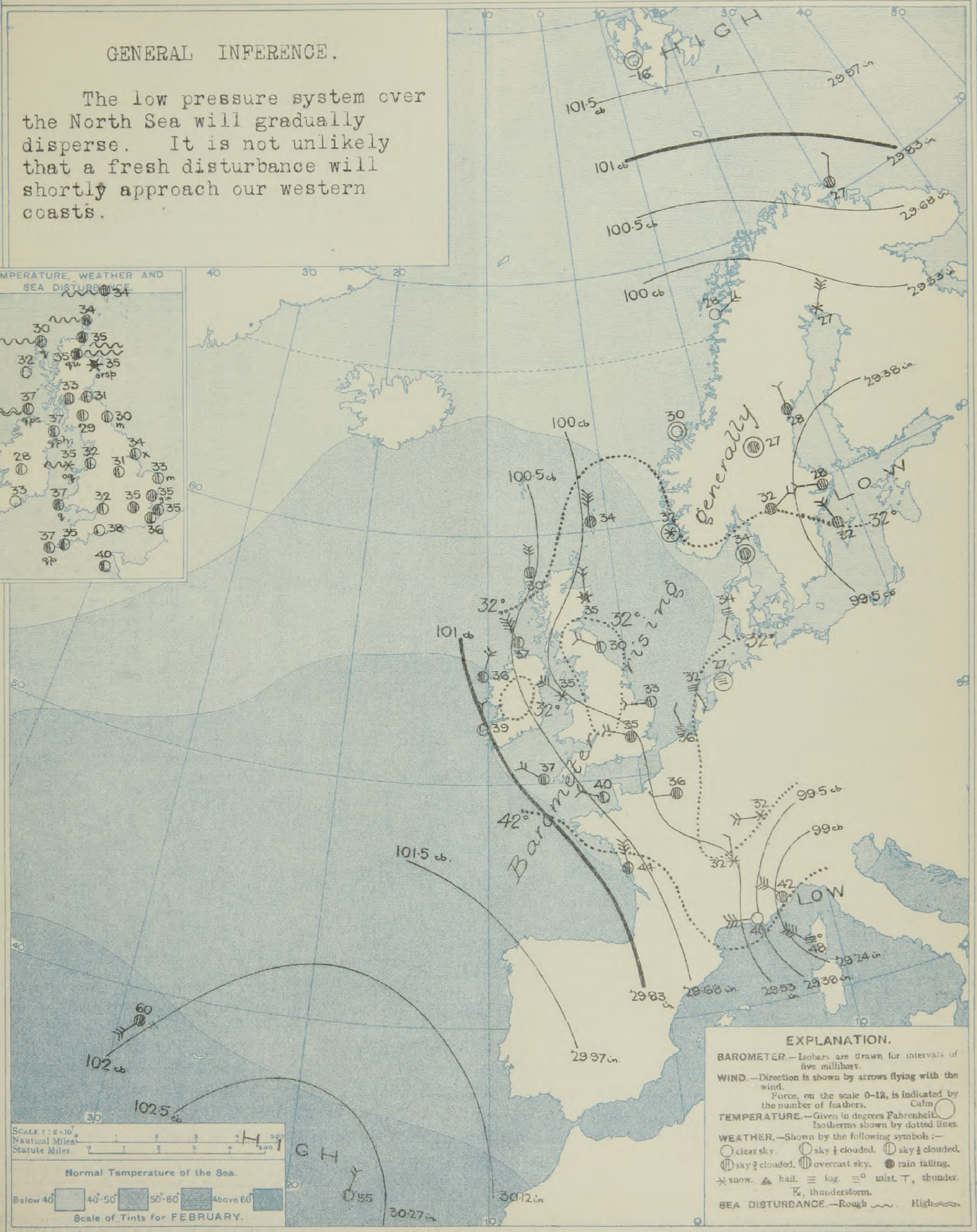
SYNOPTIC CHART FOR 7 a.m., TUESDAY, 23RD. FEBRUARY, 1915.

GENERAL INFERENCE.

The low pressure system over the North Sea will gradually disperse. It is not unlikely that a fresh disturbance will shortly approach our western coasts.

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. ⊤ thunder. ⊼ thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

DAILY WEATHER REPORT. Tuesday, 23rd February 1915.

REPORTS FOR YESTERDAY.

22nd February.

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								
Petrograd	1020.0	32	E	2	0	9955	+5	34	+6	E	2	–	s	*	55	34	28
Rome	1000.7	48	N	1	0	1000.1	0	45	−5	SE	1	–	r	*	7	54	45
Horta	-	-	-	-	-	10223	0	60	0	SW	4	–	0	3	–	64	57
Biarritz	1001.0	50	S	3	0	979.4	−1	52		WSW	9	–	0	9	9	50	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	5	42	?	b ps	ps	3.2
Scotland.	Banff	4	41	34	s.chp	bcpr	1.7
Scotland.	St. Andrews	–	43	33	*	*	7.4
Eng. N.E.	Harrogate	1	41	27	bc.b	bc.b	5.4
Eng. N.E.	Scarborough	*	46	30	c.b	c.b	?
Eng. N.E.	Skegness	1	46	35	r.o	o	0.0
Eng. N.W.	Morecambe	1	39	28	o.bc	p.bc	3.4
Eng. N.W.	Blackpool	1	42	27	of.bc.b	bc.c	3.6
Eng. N.W.	Southport	1	41	30	of.c.bc	cos.rc	3.2
Midlands.	Buxton	–	40	31	bc	bc	5.9
Midlands.	Leamington Spa	4	41	39	c.bc	c.bc	1.0
Midlands.	Malvern	1	42	35	bc	c	1.8
Midlands.	Ross-on-Wye	1	46	34	bc.s	bc	0.3
Wales.	Rhyl	–	42	28	bc	bc	5.0
Wales.	Colwyn Bay	–	49	31	bc.b	b.bc.co	5.5
Wales.	Llandudno	–	43	34	b	b.o	4.8
Wales.	Aberystwyth	1	42	33	r.o.c	c.bc	3.0
Wales.	Tenby	2	44	33	bc.o	b	5.3
Wales.	Swansea	3	44	37	w.b	bc.b	3.4
England. E.	Cromer	2	43	33	r.o.c.bc	o.c	0.9
England. E.	Lowestoft	2	47	36	bc.c	c.op	4.3
England. E.	Felixstowe	–	46	36	bc	bc	6.2
England. E.	Walton-on-Naze	–	45	35	b	b.bcm	6.7
England. E.	Southend-on-Sea	–	48	35	b	b.bc.od	4.3
England. S.E.	Tunbridge Wells	1	46	32	m.b.bc	bc.or.o	1.3
England. S.E.	Margate	–	47	37	z.c.bc	c.bcz	0.8
England. S.E.	Ramsgate	1	45	37	bc	c.ob.bc	2.7
England. S.E.	Folkestone	–	45	38	b.o	c.bc	1.8
England. S.E.	Hastings	–	46	38	b.bc.o	bc.c	2.3
England. S.E.	Bexhill-on-Sea	–	46	38	b	bc	3.1
England. S.E.	Eastbourne	–	47	42	bcm.o	bcm.o	2.9
England. S.E.	Seaford	–	47	34	b.bc	b	3.3
England. S.E.	Brighton	–	46	34	bm.b	bc.c	1.4
England. S.E.	Worthing	–	46	33	c	bc	0.8
England. S.E.	Littlehampton	–	44	31	o	c.bc	0.6
England. S.E.	Bognor	0.3	44	36	o	op	0.1
England. S.E.	Southsea	9	40	38	for	r.o	0.0
England. S.E.	Bournemouth	6	41	36	o	o	0.0
England. S.W.	Weymouth	2	42	37	m.c	c.bcz	1.4
England. S.W.	Torquay	2	45	37	od	c.bc.o	2.6
England. S.W.	Paignton	3	46	34	bc.or	bc	2.0
England. S.W.	Falmouth	5	45	36	bcph	cpth	3.8
England. S.W.	Penzance	5	48	37	bcp	bcp	4.5
England. S.W.	Newquay	4	44	35	bv.cp	cp.bc	4.6
England. S.W.	Ilfracombe	12	45	37	bcp	bcp	3.0
England. S.W.	Weston-super-Mare ...	4	42	34	r.c	ch.bc	0.6

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.) ...	91	74	0.0	43	35	30	2	o	or.o	o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	77	0.0	43	35	32	2	r	be.r	bc.u
Camden Sq. (Brit. Rainfall)	83	82	0.0	43	34	29	2	om.o	or.or	*
Hampstead (Reservoir) ...	*	79	0.0	41	31	24	3	orh	bc.or	or.x.bc
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.
267 Joules	7.2 Milliwatts.	18 Milliwatts.

S. Kensington (Roof of M.O.)	82	77	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.								*
Darwen to 9 p.m.								*
Manchester ,,	0.2	41	33	*	o	o.bc.c	o	0.6
Birmingham ,,	–	43	34	31	*	o	o.c	1.0
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	1	49	35	33	bc.or	or.c.bc	bc	2.8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	45	36	28	bc.o	cam.o	org.o	*

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

23rd: 24th Feb, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.56 / 6.53	12.7 / 12.8	5.18 / 5.19
Greenwich	7.1 / 6.58	12.14 / 12.13	5.27 / 5.28
Wick	7.27 / 7.24	12.26 / 12.25	5.25 / 5.27
Valencia	7.43 / 7.41	12.55 / 12.54	6.7 / 6.8

NOTES ON YESTERDAY'S WEATHER.

Over the major part of the United Kingdom the thermometer did not reach 45°, and in the Hebrides it did not touch 40°. Rain, sleet or snow fell generally, and a gale from the Northward prevailed on exposed 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.

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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. 55

Wednesday, 24th February 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 ...	1009·8	30	N	5	c	1015·1	+3	29	−5	N	3	–	b	4	1	36	25	os	p.bc	bcp	*
	Deerness ...	1011·2	30	NNW	6	cph	?1017·6	*	29	−5	NNW	2	NW	bcx	1	1	37	27	o.psh	sph.c	cph4.bc	2·3
	Stornoway ...	1014·6	30	NNE	5	bc	1018·3	−1	30	0	SSW	3	SW	bc	3	1	33	24	bcq	bc	b.bc	3·5
	Castlebay (Barra Isd.)	1014·3	33	NNE	3	b	1019.0	+1	38	+6	SSW	3	–	o	3	–	38	30	b.hp.bc	bc.b	b.o	7·1
	Glasgow ...	1011·6	33	NE	1	o	1021·7	+4	25	−8	NNW	1	–	b	*	1	38	24	osp.bc	bc.osp	c.bc.by	1·5
	Eskdalemuir ...	1010·2	31	NNE	4	o	1020·7	+5	24	−5	NNW	2	–	b	*	1	38	22	c.bc.os	osq.o	o.c.bc.b	2·5
	Malin Head ...	1013·2	36	N	5	bcq	1021·2	+4	36	−1	NW	2	–	bcx	4	1	38	32	bcq	bcq	bcx	6·1
	Blacksod Point	1016·8	36	N	5	cpsq	1023.5	+2	38	+2	W	2	W	bc	2	1	42	33	eps	bcpsq	bc	*
	Valencia ...	1016·9	37	N	3	b	1025·0	+2	31	−8	E	1	–	b	3	1	42	30	bv.h	bcv	bcps	7·1
	Roche's Point	1015·8	39	NNW	4	c	1025.3	*	32	−1	NNW	2	–	b	2	–	42	32	b.bc	bc.c	bxc	*
	Birr Castle ...	1014·0	34	NW	1	bc	1024.1	*	24	−4	NW	1	–	b	*	–	39	24	bc	bc	bx	6·2
	Donaghadee ...	1010·4	37	N	5	cgm	1021·1	+4	35	−2	NNE	4	N	bc	3	1	39	34	cqps	cmg	cgm.bc	*
	Liverpool (Bidston)	1007·7	37	NNW	3	bc	1019.7	+3	32	0	N	2	–	b	2	3	38	30	os	cp	c.b	1·6
	Holyhead ...	1007 5	40	N	6	bcq	1020·4	+6	35	0	N	5	NE	bc	5	4	41	33	cp.ops	ops.cq	bc.op.c	2·7
	Pembroke (St. Ann's)	1010.3	39	NNE	5	bc	1020·4	+3	36	−1	NNE	4	N	cshq	4	10	39	33	cq	bcq	bcq	6·8
	Scilly (St. Mary's)	1012·1	38	NW	5	cqph	1020·1	+5	40	+3	N	5	N	cv	6	1	44	37	bcv	bcqph	cp.cv	7·7
	Falmouth ...	1011·5	35	NW	4	bc	1019.9	+6	37	+2	NNW	2	–	bc	3	2	43	34	bcph.	bc.sp	bcp	7·8
	Jersey (St. Aubin)	1009·1	42	NW	4	b	1015·7	*	40	0	NNW	4	–	cg	3	0.4	45	36	bc.b	bc.b	b.cp.o	8·6
	Portland Bill ...	1006·6	40	NW	5	bc	1016·1	+6	35	−3	NNW	4	N	c	3	–	43	35	bc	bc	bc.c	*
	Dungeness ...	1005·4	35	NW	2	b	1011.3	+5	32	−4	NW	2	NW	s	2	–	42	29	bcm	bc.b	bxc.co	*
	Dover	1005·9	33	NW	1	b	1012·0	+4	33	−2	NW	3	4	sr	2	4	42	30	c.bc.b	b.bc.b	b.bc.cs	5·6
	Wick	1010·4	31	NNW	3	o	1017.9	+3	25	−10	NW	1	NW	c	4	–	36	24	o.chpq	chp.oq	oq.bcx	*
	Nairn	1013·0	31	NNE	2	bc	1020.9	*	24	−11	SW	1	–	bc	-1	0.2	35	23	ps.cq	bcq	bc	3·2
	Aberdeen ...	1010·0	33	NNW	4	b	1018.6	+5	27	−8	NW	3	–	bc	?	2	38	27	ors.c	c.bc.b	bcsp	2·2
	Leith	1010.5	36	N	2	c	1020·7	+2	27	−4	W	2	–	b	*	2	38	27	cos.o	o.c	co.c	*
	Tynemouth ...	1005·3	38	NNE	4	omq	1017·1	+7	31	+1	NNW	3	N	cm	4	2	39	28	om	om	cms	*
	Spurn Head ...	1004·6	36	E	4	o	1013.3	+4	33	–	N	7	–	osuq	5	1	36	31	cm	or	or	1·1
	Yarmouth ...	1005·0	38	WNW	1	f	1012·3	+5	33	0	N	3	–	o	2	2	42	32	om	om.f	omr	0·3
	Clacton-on-Sea	1004·1	37	W	1	c	1011·1	+4	35	0	NNW	3	N	c	1	1	42	32	ogm.bc	bc.c	c.bc.os	2·7
	Nottingham ...	1005·4	34	NNW	2	bc	1016.3	*	32	+1	N	4	N	bm	*	1	41	29	bcm.b	bcpsm	cs.o	6·4
	Bath	1006·2	39	W	2	o	1018·2	*	32	0	NW	2	–	bc	*	1	42	31	b.bc	cphs.o	p&o.bc	6·4
	London (Kew Obsy.)	1006·2	37	WNW	2	bc	1014.7	+6	33	−2	NNW	4	N	b	*	5	41	31	o.bc	c.bcsp.b	cmbcms.b	7·1
ICELAND, FAEROE, &c.	Spitsbergen ...	1018·4	−17	S	2	b	1018·3	−1	−17	−1	–	0	*	b	*	*	−15	−22				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1011·3	27	NE	3	b	1012·2	+1	23	−4	NE	5	–	o	4	*	27	23				
	Bodö	999.8	27	E	1	b	1002.0	+3	27	−1	E	4	–	c	2	–	30	21				
	Christiansund	1001·3	34	NE	2	s	1010·3	+4	32	+2	–	0	–	o	4	6	37	28				
	Skudesnaes ..	1001·9	34	–	0	o	1007·7	+3	34	+2	N	4	–	c	2	?	34	32				
	Færder (Christiania Fjord)	1001.5	34	WSW	2	o	1006·0	+3	27	−3	NNW	3	NE	bc	1	–	34	27				
	The Scaw (Skagen)	1001·0	36	SW	1	o	1005·0	+2	32	−2	–	0	–	m	0	–	37	30				
	Blaavands Huk	1002.0	36	S	2	f	1005·6	+3	36	+2	WNW	2	–	bc	2	2	36	32				
	Haparanda ...	997·2	27	NE	4	o	998·4	+1	25	−2	NE	4	–	s	*	3	27	25				
	Hernösand ...	998·0	28	N	2	o	1001·3	+3	21	−7	NE	2	–	bc	*	–	30	21				
	Stockholm ...	998·3	28	WNW	2	c.	1001·0	+1	28	0	WNW	2	–	b	*	Trace	30	28				
	Wisby	1000·7	32	NW	4	s	1003·4	+3	32	0	NW	4	–	bc	*	Trace	34	30				
	Karlstad	1001·2	32	–	0	o	1005·2	+4	19	−13	NNE	2	–	b.	*	–	36	18				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1004·0	37	SE	1	m	1008·0	+2	34	+2	SSE	1	–	f	0	Trace	39	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1005·1	39	WNW	4	bc	1012·2	+7	36	−1	NNW	5	*	s	3	1	41	36				
	La Hève	1007·8	37	NW	4	o	1012·6	*	32	−4	N	2	*	s	4	4	45	32				
	Ushant							*					*									
	Brest (St. Mathieu)	1013·2	45	NW	3	c	1019.4	+3	42	+3	NNW	5	*	c	4	–	52	36				
	Rochefort (Ile d'Aix)	1011·5	43	NW	3	c	1016·3	+1	42	−2	NNW	4	*	bc	*	–	46	39				
	Biarritz												*									
	Paris	1007·5	37	NW	2	b	1011·7	+3	27	−9	S	1	–	b	*	1	43	27				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ..																					
	Sanguinaire ...	996·4	50	W	8	m	1001·2	*	47	−1	W	4	*	m	6	–	55	39				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1022·9	54	NNW	3	bc	1021·9	0	54	+6	WNW	2	–	o	6	2	57	48				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1018·9	*	SSW	5	o							*									
	Madeira (Funchal)	1024·8	63	NNE	3	c	1026·7	o	54		NNE	3	–	b	2	–	64	52				

GALES.

Duration and Extreme Force in British Islands.

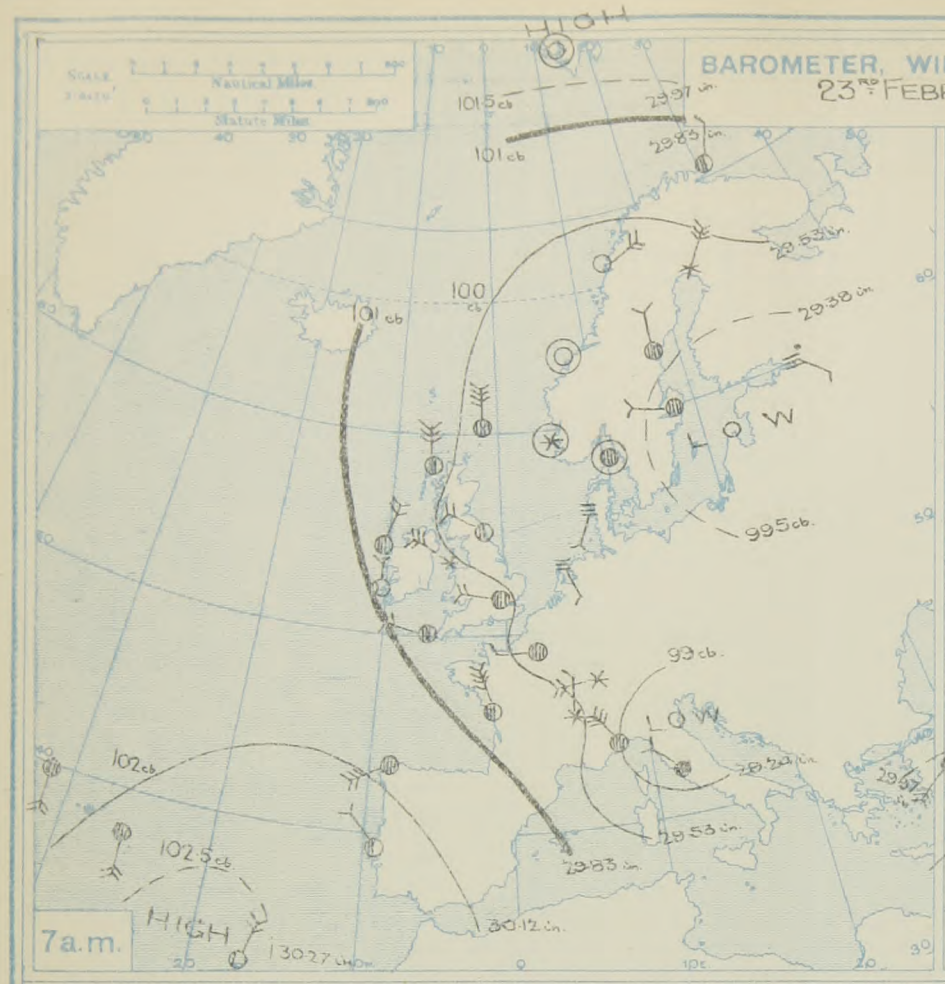
Malin Head.
23rd 7am - 11am NNW. 8.

Holyhead.
23rd Between 7am & 1pm squalls 70mps.

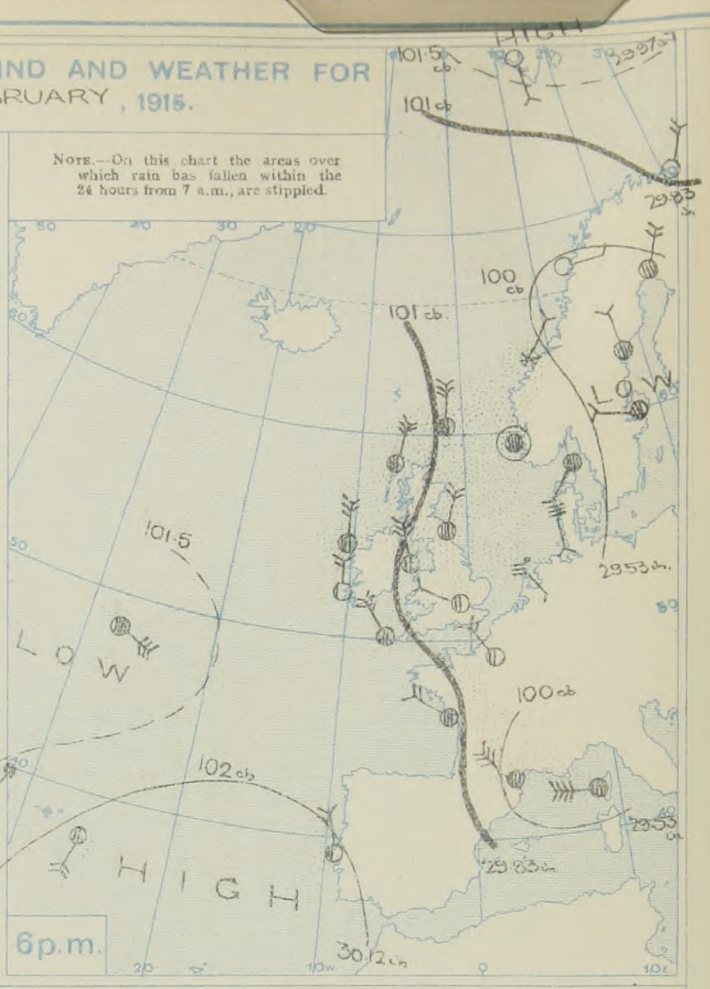
Scilly.
23rd 5pm Nav. 8.

* 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 23RD FEBRUARY, 1915.

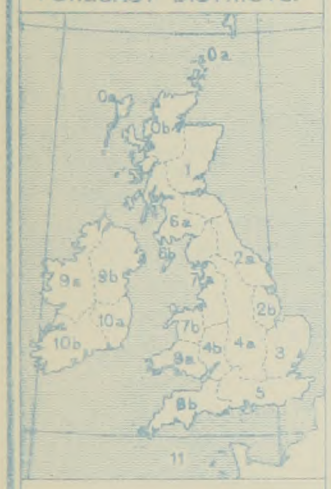


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



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 Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued.

Western Channel and Bay

0 {a b} 1 — Light or moderate South-Westerly winds; fine to-day, but misty in places, some snow to-morrow; temperature rising.

2 {a b} 3 / 4 {a b} 5 — Light Northerly to North-Westerly winds; fine generally, but becoming misty or foggy in places; sharp frost to-night.

6 {a b} — Light or moderate South-Westerly to Southerly winds; fine at first, some snow later; temperature rising.

7 {a b} / 8 {a b} — Same as Nos. 2 to 5.

9 {a b} / 10 {a b} — Wind shifting to the Southward and freshening somewhat; fine at first, rain or sleet later; temperature rising.

11 — Moderate or fresh North-Westerly to Westerly or South-Westerly winds and a rough sea; fair, cold.

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

FURTHER OUTLOOK.

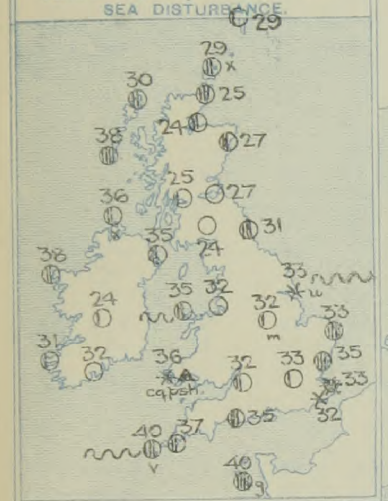
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 24TH FEBRUARY, 1915.

GENERAL INFERENCE.

An anticyclonic ridge will move eastward across the United Kingdom. In Ireland and Scotland the weather will be affected shortly by a depression which is likely to extend from the Atlantic.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



HIGH

LOW

LOW

LOW

HIGH

Generally unsteady

Barometer steady

101.5 cb.

101 cb.

100.5 cb.

102 cb.

102.5 cb.

29.97 in.

29.88 in.

29.68 in.

29.53 in.

30.27 in.

30.12 in.

29.97 in.

29.83 in.

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 FEBRUARY.

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. ⊤ᵀˢ thunderstorm.

SEA DISTURBANCE.—Rough ..... High

DAILY WEATHER REPORT. Wednesday, 24th February, 1915

REPORTS FOR YESTERDAY.

23rd February

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.	Change in 3 hours.	Temp. Dry Bulb. F.	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	992.7	34	SE	1	m	990.7	0	34	0	SE	1	–	m	*	11	36	32
Corunna	1015.0	50	WNW	7	o	1019.3	+2	46		WSW	5	–	o	o	2	52	43
Lisbon	1019.7	52	NNW	4	b	1022.1	+1	48		NW	2	–	bc	6	–	55	46
Rome	988.2	52	SW	3	o	989.3	o	45	o	NW	2	–	r	*	26	52	45
Madrid	1009.9	48	WNW	6	c	1021.1	+3	39	6.	NW	1	–	b	o	-	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	–	40	30	b	bc	6.2
	Banff	3	37	31	p.csp	c. bcp.c	0.9
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	39	25	b	b.bc	6.6
	Scarborough	*	39	30	o.c	o.c	0.0
	Skegness	–	39	30	c	c.om	2.2
Eng. N.W.	Morecambe	–	40	30	bc	bc	4.2
	Blackpool	1	41	31	osh.c	c.bc.b	2.8
	Southport	2	44	30	osr.c	o.c.bc.b	3.3
Midlands.	Buxton	–	37	28	bc	bc	5.1
	Leamington Spa	1	40	30	b	os	5.2
	Malvern	2	39	25	bc	c.o	4.6
	Ross-on-Wye	2	43	30	bcx	bc.c.o	6.9
Wales.	Rhyl	9	39	30	s.c	c.o	0.7
	Colwyn Bay	9	39	33	c.os	ps.c.bc	?
	Llandudno	8	40	36	o	o	1.2
	Aberystwyth	3	38	32	s.o.c	cr.o	2.0
	Tenby	3	42	32	b	bc.o	6.6
	Swansea	2	42	31	bcs	b.s	6.0
England. E.	Cromer	1	37	33	o.cs.o.c	o.c	6.0
	Lowestoft	0.3	41	32	o.c.bc.c	c	1.5
	Felixstowe	1	40	33	bc	bc.c	2.6
	Walton-on-Naze	3	40	32	bc.c	bc.c.b	2.4
	Southend-on-Sea	1	44	33	o.bc.b	b.bc	5.9
England, S.E.	Tunbridge Wells	–	43	32	bc.b	b.bc.m.b	6.5
	Margate	–	41	36	c	b	5.2
	Ramsgate	0.3	41	35	o.bc	bc	6.3
	Folkestone	–	45	35	b	o.b	5.3
	Hastings	–	42	35	bc.b	b	7.3
	Bexhill-on-Sea	–	43	35	b	b	7.5
	Eastbourne	–	44	35	bc	bc	7.0
	Seaford	0.3	43	34	b	b	7.8
	Brighton	1	43	35	bl.c	c.bc.c	8.3
	Worthing	2	44	33	b	b	8.2
	Littlehampton	2	42	28	b	b	8.6
	Bognor	5	43	33	b	bcs	8.7
	Southsea	4	43	33	b	b	8.1
	Bournemouth	–	43	32	b	b	8.7
England, S.W.	Weymouth	–	42	33	b.bc.	b.bc.s	8.2
	Torquay	–	43	34	b	bc.b	9.1
	Paignton	–	44	33	b	b	8.8
	Falmouth	4	43	35	bcph	bcs	7.6
	Penzance	2	43	46	berh	bc	7.5
	Newquay	3	46	36	bvp	bvp	6.3
	Ilfracombe	1	45	37	bc	bc	5.0
	Weston-super-Mare	–	42	34	b.bc.b	b.bc	5.8

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.§			
Greenwich (Royal Obsy.)				24 Hours ended 9 A.M. To-Day.						
City (Bunhill Row)	*	*	4.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	66	72	4.5	41	32	31	5	bc	bc	bc.s.b
Camden Sq. (Brit. Rainfall)	63	82	6.1	43	27	29	10	bc.b	b	*
Hampstead (Reservoir)	*	81	6.2	41	27	18	11	bc.of	c.of	bx.bc
Richmond Park	*	*	7.3							
Kew. (See front page.)										

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

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Rainfall.
S. Kensington (Roof of M.O.)	65	76	4.8	

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
560 Joules	14.9 Milliwatts.	49. 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.	–	39	30	28	bc	bc	c	*
Darwen to 9 p.m.	0.3	38	28	25	bcs	bc	bc.ou	4.7
Manchester ,,	0.2	37	31	*	ox.c	c.bc.sg	os	2.2
Birmingham ,,	2	38	30	25	*	bc	o3	3.8
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	41	35	31	o.bc	bc	bcg	*

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

24th 25th Feb 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.53 / 6.51	12.8 / 12.6	5.19 / 5.21
Greenwich	6.58 / 6.56	12.13 / 12.13	5.28 / 5.30
Wick	7.24 / 7.21	12.25 / 12.25	5.27 / 5.23
Valencia	7.41 / 7.39	12.54 / 12.54	6.8 / 6.10

NOTES ON YESTERDAY'S WEATHER.

Over the greater part of our western and northern districts the thermometer failed to reach 40°, and at Nairn it did not exceed 35°. Snow fell in most places, and a fresh gale from the North-Westward prevailed on a few exposed 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.

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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. 56.

Thursday, 25th February 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 ...	1017·4	35	S	3	bc	1017·1	0	40	+11	NW	2	W	bc	2	–	40	?28	b	bc	oc	*
	Deerness ...	1017·6	34	SSW	2	esp	1020.0	*	37	+8	SW	3	W	c	2	2	38	27	bcx.c.o	ops.o	o.c.bx.c	1.2
	Stornoway ...	1018·7	38	W	3	bcp	1021.5	+1	37	+7	WSW	3	–	bc	3	5	40	30	c.or	or.bcp	b.bc	1.4
	Castlebay (Barra Isd.)	1020·3	41	W	3	c	1022.9	+1	42	+4	WSW	2	W	cp	2	2	43	36	o.bc.op	op.bc	o.bcp	3.5
	Glasgow ...	1022·3	36	SW	3	c	1025·4	+2	36	+11	WSW	2	–	bc	*	0.2	37	24	bc.c.o	c.bc.c.o	cp.bcp	5.1
	Eskdalemuir ...	1024·0	33	S	2	c	1026.0	+1	32	+8	SE	2	W	c	*	0.3	36	22	bx.b	b.bc.c	c.o.c.o	3.3
	Malin Head ...	1022·9	40	WSW	4	bc	1025.3	0	38	+2	SW	2	W	c	3	Trace	40	33	bc	bc	cp	5.7
	Blacksod Point	1025·3	41	WSW	2	bcv	1025·0	0	38	0	W	3	NW	om	3	–	42	36	bc	bcv	bc	*
	Valencia ...	1026·7	42	SSW	1	c	1027·7	+1	39	+8	ESE	1	–	b	3	1	46	29	bcpv	cv	c.b	5.8
	Roche's Point	1028·5	40	SW	2	c	1029·4	*	32	0	NE	1	–	b	1	0.1	45	32	b	b.bc.c	bx	*
	Birr Castle ...	1026·3	40	S	1	o	1028·4	*	29	+5	S	1	S	c	*	–	42	24	b	b.bc.o	ex	6.4
	Donaghadee ...	1023·9	37	W	3	bcm	1026.8	0	32	–3	W	3	–	bmx	2	–	41	31	bcp	bcp	bc.bmx	*
	Liverpool (Bidston	1025.6	36	NW	3	b	1027·7	+1	33	+1	WSW	3	–	b	3	–	37	32	b	b	bc	8.6
	Holyhead ...	1025·8	38	NNW	3	bz	1027·3	+1	36	+3	WSW	3	W	bx	2	–	43	34	bc.b	bc.b	b.bc.bx	9.3
	Pembroke (St. Ann's)	1027.0	34	N	1	b	1029.1	+1	32	–4	N	1	–	bx	1	0.3	41	31	cqs	bc	b	3.0
	Scilly (St. Mary's)	1025·8	40	NNE	3	bv	1028.2	+1	38	–2	SE	3	–	b	4	–	43	35	bc	bv	bv.b	8.3
	Falmouth ...	1026.0	37	N	3	b	1029.4	+2	29	–8	NE	1	–	b	2	–	41	28	cp	bc	b	4.8
	Jersey (St. Aubin)	1022·8	40	N	3	cq	1028.5	*	35	–5	NE	2	–	bm	1	–	43	31	b.o.b	bc.cq	c.bmwx	4.3
	Portland Bill ...	1024·3	37	NNW	3	b	1029·3	+1	34	–1	N	1	–	bx	2	–	40	30	bc	bc	b	*
	Dungeness ...	1021·1	35	NNW	4	cu	1026·3	+4	27	–5	NW	3	–	bccg	3	3	37	?27	c.os.bc	bc	b.bgx	*
	Dover	1020·5	35	N	5	bc	1027.0	+3	29	–4	NW	4	–	bcg	2	1	39	27	sp.bc	bcp.bc	cph.bx	2.6
	Wick	1017·6	34	WSW	3	o	1021·1	+1	34	+9	W	3	–	b	3	1	35	25	ex.om	omps	osp.bx	*
	Nairn	1019·0	34	WSW	2	cq	1023.0	*	35	+11	W	1	–	bc	1	tr	35	23	bc	bcq	c.bc	3.2
	Aberdeen ...	1020·9	34	SW	2	osp	1023.1	+3	34	+7	WNW	2	–	b	2	0.1	37	26	bc	c.of	osp.b	5.2
	Leith	1022·2	36	WSW	2	c	1024·2	+1	36	+9	WSW	2	NW	b	*	–	38	26	b.bc	bc.c	bc	*
	Tynemouth ...	1022·5	34	WNW	2	bm	1024·6	+1	34	+3	NW	3	–	bm	3	–	36	29	b	b	bc	*
	Spurn Head ...	1022·3	35	N	7	c	1025·3	0	34	+1	NNW	5	–	bcm	5	0·2	38	30	gs.c	cq	bcq	4.0
	Yarmouth ...	1020·9	37	N	4	bcq	1025·7	0	30	–3	W	2	W	bc	1	1	42	28	o.bcq	bcq	bcps	5.0
	Clacton-on-Sea	1020·1	35	NNW	4	bc	1025.6	+1	29	–6	NW	2	NW	bc	2	1	38	28	c.op	oprs.c	bc.bc	3.5
	Nottingham ...	1023·8	34	N	2	b	1026·8	*	27	–5	WSW	1	–	bm	*	Trace	39	25	bcps	bm	bm	5.5
	Bath	1024·4	35	N	1	b	1029·6	*	26	–6	WNW	1	–	b	*	–	40	23	bc.b	bc.b	cm	9.0
	London (Kew Obsy.	1023·5	36	N	4	bm	1028·3	+2	30	–3	W	1	N	bcmx	*	–	39	28	b.o.om	om.bm	bx.bc.bcm	4.8
ICELAND, FAEROE, &c.	Spitsbergen ...	1017·5	–11	–	0	bc	1012·2	–12	3	+20	E	2	*	s	*	*	3	–19				
	Isafjord ...												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*			*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1016·7	23	NE	5	o	1017·5	+1	23	0	E	5	–	o	3	*	23	21				
	Bodö	1011·5	25	E	4	c	1012·2	0	?23	–4	E	1	–	c	1	–	25	19				
	Christiansund	1015·7	30	NE	4	b	1016.8	0	30	–2	–	0	–	o	4	13	34	25				
	Skudesnaes ..	1014·6	32	N	3	b	1020.8	+1	25	–9	NE	2	–	b	1	–	36	25				
	Færder (X'iania Fjord)	1012·6	32	NNE	4	b	1019.5	+3	27	0	N	2	–	b	1	–	32	25				
	The Scaw (Skagen)	1010·1	32	N	3	b	1018·4	+5	30	–2	NNE	3	N	bc	3	–	34	30				
	Blaavands Huk	1012·8	36	NNW	3	c	1018.6	+5	34	–2	NNE	2	–	o	3	Trace	37	28				
	Haparanda ...	1003·3	23	N	4	o	1006.9	+2	19	–6	N	4	–	s	*	1	27	18				
	Hernösand ...	1006·1	23	NE	2	b	1012.4	+3	18	–3	N	2	–	b	*	–	27	16				
	Stockholm ...	1005·5	28	NW	2	o	1010·1	+3	25	–3	WNW	2	–	s	*	–	30	21				
	Wisby	1006·3	30	NW	4	bc	1012·8	+4	30	–2	N	6	W	c	*	–	34	28				
	Karlstad	1009·9	27	NNW	2	b	1017·7	+4	18	–1	–	0	–	b	*	–	34	16				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1016·4	37	N	5	c	1023.3	+2	37	+3	NNW	4	–	bc	2	2	41	34				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1019·1	39	NNW	6	c	1026.3	+3	35	+1	NNW	5	*	b	4	8	41	34				
	La Hève	1022·4	37	N	4	o	1026·4	*	34	+2	N	2	*	c	3	2	43	30				
	Ushant	1026.9	41	N	5	b	1028.3	*	39		ESE	3	*	b	3	3	46	34				
	Brest (St. Mathieu)	1026·0	39	NNE	3	o	1028·7	0	34	–8	ESE	2	*	b	1	–	45	34				
	Rochefort (Ile d'Aix)	1022.6	42	N	5	o	1026.6	+1	35	–7	NE	3	*	bc	*	–	46	34				
	Biarritz												*									
	Paris	1018·3	36	NNW	2	r	1025·5	+3	32	+5	N	3	–	b	*	–	41	27				
	Belfort	1017·5	31	W	2	o	1022.3	*	26		W	2	*	m	*	?	34	26				
	Lyons	1017·9	30	NNW	2	o	1022.6	*	31	+1	NNW	3	*	c	*	–	41	29				
	Nice	1006·9	41	E	5	c	1012·3	+4	38		E	1	*	b	4	–	55	36				
	Perpignan ..	1017·5	41	N	3	bc	1020.6	+3	37	–2	NNW	4	N	b	*	1	48	36				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)														*							
	Madrid (8 a.m.)																					
	Lisbon (9 a.m.)																					
	Gibraltar							*					*		*							
	Rome																					
	Azores (Horta, 8 a.m.)		*										*									
	Madeira (Funchal)	1024·8	54	NE	2	o	1025·5	o	55	+1	NE	2	–	bc	2	–	63	SX				

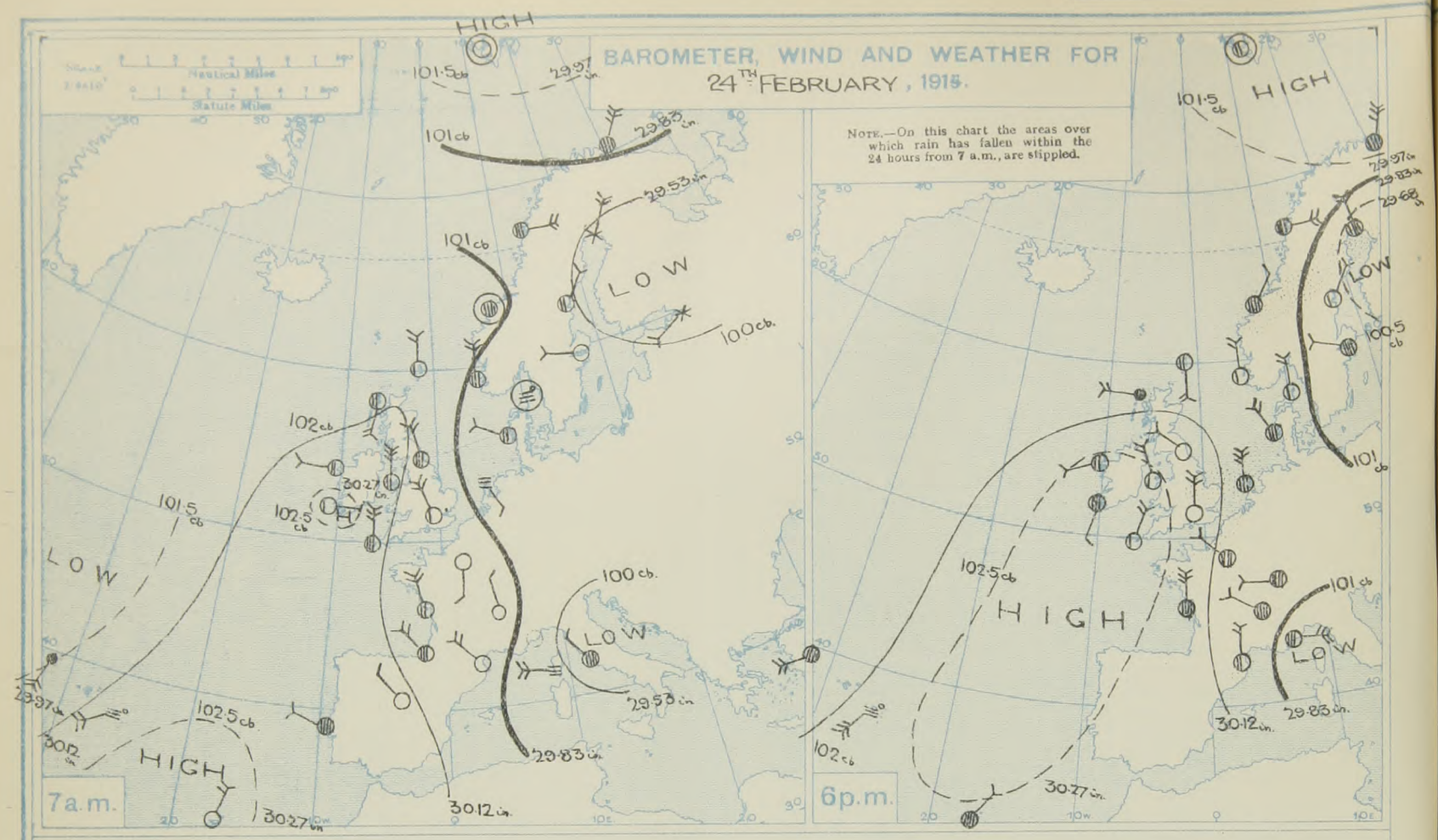
RAINFALL.

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

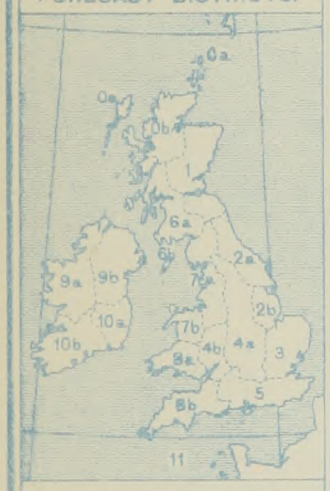
BAROMETER, WIND AND WEATHER FOR 24TH FEBRUARY, 1915.



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 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 — Light Westerly winds; fine generally, but misty in places; frost to-night.

2 {a, b} — Light North-Westerly winds; fine generally, but misty in places; frost to-night.

3, 4 {a, b}, 5 — Light North-Westerly to variable breezes; fine at first, but becoming misty or foggy later; sharp frost to-night.

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

8 {a, b} — Light variable airs; fine generally, but misty or foggy in places; frost to-night.

9 {a, b} — Light Westerly winds; fair generally, but misty in places; sharp frost inland to-night.

10 {a, b} — Light variable or Easterly airs; fair generally, but misty in places; sharp frost inland to-night.

Western Channel and Bay 11 — Light Easterly and South-Easterly airs and a moderate sea; fine generally, but misty in places.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 25TH FEBRUARY, 1915.

GENERAL INFERENCE.

The anticyclone over the United Kingdom and France will probably drift slowly in an easterly direction, but its influence will continue to be felt for the present in all districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

HIGH

LOW

LOW

HIGH

Barometer steady

Generally

Barometer falling

1015

1015 cb

101·5 cb

102 cb

102·5 cb

101·5 cb

32°

22°

29·97 in.

29·83 in.

30·27 in.

30·12 in.

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 FEBRUARY.

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.
⊤B, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

DAILY WEATHER REPORT. Thursday, 25th February 1915.

REPORTS FOR YESTERDAY.

24th February.

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	992.4	34	–	0	f	996.6	+4	30	–4	WSW	2	–	S	*	2	36	30
Biarritz	1014.0	48	WNW	5	b	1018.3	+4	44		NW	3	–	c	4	14	48	39
Lyons	1008.6	36	NW	6	c	1014.3	*	30	–2	NNW	1	*	b	*	3	39	29
Perpignan	1010.6	43	WNW	3	b	1014.1	+3	39	–2	NW	3	NW	b	*	Trace	50	37
Madrid	1018.6	47	NW	5	c	1023.3	+6	37	–2	NW	1	–	b	*	–	48	37
Rome	996.0	46	SW	1	o	999.3	+2	43	–2	NW	1	–	o	*	14	52	39
Horta	*	*	*	*	*	1018.3	o	61	+1	SSW	4	*	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	–	41	22	b	or	3.2
Scotland.	Banff	1	36	29	h.bcsp	cs	2.4
Scotland.	St. Andrews	–	38	25	*	*	6.7
Eng. N.E.	Harrogate	1	35	26	b	b	8.8
Eng. N.E.	Scarborough	*	40	33	o.c	o.c	5.5
Eng. N.E.	Skegness	12	39	31	s.c	sh.c.bc	3.6
Eng. N.W.	Morecambe	–	38	30	b	b	9.1
Eng. N.W.	Blackpool	–	38	30	b	b	9.6
Eng. N.W.	Southport	1	37	29	b	b	9.7
Midlands.	Buxton	0.3	35	24	d.c	bc	8.3
Midlands.	Leamington Spa	1	40	29	b	b	7.8
Midlands.	Malvern	4	37	34	b	b	9.5
Midlands.	Ross-on-Wye	1	40	33	b.d.c.x	bx	8.9
Wales.	Rhyl	–	38	32	bc	bc	3.2
Wales.	Colwyn Bay	?	39	31	c.bcv	bc.b	9.0
Wales.	Llandudno	–	40	35	b	b	8.5
Wales.	Aberystwyth	–	39	32	c.b	bc.c	9.5
Wales.	Tenby	2	41	33	bc	bc	9.3
Wales.	Swansea	2	40	30	c.b	b	8.5
England, E.	Cromer	4	39	33	cp.bcs	bcs.bch	2.4
England, E.	Lowestoft	1	42	35	c.cps.c	c.bc	4.5
England, E.	Felixstowe	4	39	31	bc	e.cps.r	2.1
England, E.	Walton-on-Naze	4	38	31	bc	cs.b	2.7
England, E.	Southend-on-Sea	4	38	30	s.b.bc	c.o.bc	3.6

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	F.			Hr.
England, S.E.	Tunbridge Wells	4	38	30	b.bc.os	bc	2.7
England, S.E.	Margate	4	40	33	sp.bc.c	c.o	0.3
England, S.E.	Ramsgate	5	40	37	s.bc	c.o.bc	2.4
England, S.E.	Folkestone	4	45	31	s.o.bc	b.os.c	3.6
England, S.E.	Hastings	3	38	30	os.c	b	6.0
England, S.E.	Bexhill-on-Sea	2	41	30	b	bc	7.5
England, S.E.	Eastbourne	2	40	31	bc.b	b.beg	6.1
England, S.E.	Seaford	2	39	31	s.c	c	6.7
England, S.E.	Brighton	2	48	32	b.bc	bc.c	7.9
England, S.E.	Worthing	1	41	32	b	b	8.8
England, S.E.	Littlehampton	1	40	28	*	*	7.1
England, S.E.	Bognor	1	41	32	b	b	6.9
England, S.E.	Southsea	2	40	33	bc.b	b	5.6
England, S.E.	Bournemouth	0.3	41	32	b	b	8.0
England, S.W.	Weymouth	–	41	33	bc	bm	7.5
England, S.W.	Torquay	0.3	43	33	b	bc.b	8.5
England, S.W.	Paignton						
England, S.W.	Falmouth	4	41	34	cp	bc	4.8
England, S.W.	Penzance	1	45	37	bc	bc	5.1
England, S.W.	Newquay	3	40	34	cp.bv	bv	5.2
England, S.W.	Ilfracombe	1	41	35	bc.b	b	7.8
England, S.W.	Weston-super-Mare	–	42	34	b	b	7.6

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.)	72	78	3.9	38	26	17	0.3	bc.s	bc.s	bx.c
City (Bunhill Row)	*	*	2.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	71	78		40	26	28	2	or	bc.b.o	om
Camden Sq. (Brit. Rainfall)	74	80	3.1	40	25	21	–	b.bc	b	*
Hampstead (Reservoir)	*	88	3.2	36	22	10	–	bcx	cx	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.
S. Kensington (Roof of M.O.)	655 Joules	17.3 Milliwatts.	37 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.	–	41	28	25	bx	bx	b	*
Darwen to 9 p.m.	0.3	35	24	22	au.3.b	b.c	b.c	7.9
Manchester ,,	Trace	38	29	*	cf	bc	bc.c	5.9
Birmingham ,,	1	35	28	28	o.s	b	b.c.b	6.5
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	7	40	31	30	ops.	o.c.bc	bc.b	*

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

25th & 26th Feby 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.51 / 6.49	12.6 / 12.6	5.21 / 5.23
Greenwich	6.56 / 6.54	12.13 / 12.13	5.30 / 5.32
Wick	7.21 / 7.18	12.25 / 12.25	5.28 / 5.32
Valencia	7.30 / 7.37	12.54 / 12.54	6.10 / 6.12

NOTES ON YESTERDAY'S WEATHER.

Over a considerable portion of the United Kingdom the thermometer failed to reach 40°, and at a few of the northern stations it did not exceed 35°. Slight snow showers were experienced in the east and south-east of England, but the amount of bright sunshine was generally large

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.57

26th February 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 ...	1016.2	42	WNW	3	r	1017.2	−3	41	+1	SSW	2	SW	bc	2	4	43	38	-	bcp	bcp	*
	Deerness ...	1021.7	39	SW	3	o	1015.6	*	39	+2	S	6	-	o	5	-	43	35	c.o	cg	o	0.0
	Stornoway ...	1022.3	43	WSW	3	c	1009.5	−11	42	+5	S	8	S	oq	7	1	45	37	bcp	bc.c	oq	2.5
	Castlebay (Barra Isd.)	1023.7	43	SW	2	c													c.o.bcp	c.o.c		
	Glasgow ...	1027.8	41	SW	2	o	1021.6	−4	37	+1	SSE	3	-	ox	*	0.1	44	34	bc.c.o.c	c.odp.c	bc.bg.o	3.1
	Eskdalemuir ...	1028.1	36	WSW	2	bc	1024.1	−5	34	+2	S	4	SW	o	*	0.1	41	32	c.o	o.c	c.o	0.2
	Malin Head ...	1026.4	42	SSW	3	bc	1010.9	−12	38	o	S	8	-	orm	6	1	46	34	bc	bc	omr	8.2
	Blacksod Point	1025.1	41	S	4	bc	1009.8	−6	42	+4	S	9	SW	crm	7	2	45	37	bc	bc	bc.orm	*
	Valencia ...	1026.7	43	S	4	bc	1017.3	−4	45	+6	SSE	4	-	rm	4	9	47	38	b	bc	c.or	8.0
	Roche's Point	1029.5	44	S	3	bc	10227	*	46	+14	S	6	-	o	6	0.1	46	31	b	b.bc	c.o	*
	Birr Castle ...	1028.1	40	S	1	bc	1019.0	*	44	+15	S	5	-	o	*	-	47	29	b	bc	o	8.2
	Donaghadee ...	1027.3	40	WSW	2	bcz	1020.3	−3	39	+7	SSW	5	-	ogm	4	-	43	31	bcz	bcz	bcz.x.o	*
	Liverpool (Bidston)	1030.3	38	WNW	1	b	1027.9	−2	30	−3	SSE	2	-	b	2	-	42	29	bc	bc	bx	3.6
	Holyhead ...	1029.2	42	SW	3	cz	1025.0	−4	40	+2	S	6	-	ouq	5	-	45	37	bc.c.bc	bc.b.bc	b.bc.co	7.5
	Pembroke (St. Ann's)	1031.0	40	SW	2	b	1026.4	−3	42	+10	S	6	S	cq	6	0.3	43	32	bx	b	b	9.2
	Scilly (St. Mary's)	1028.6	43	SE	3	bcm	1026.8	−3	44	+6	S	5	S	bc	5	-	47	37	b	bm	b.bc	9.0
	Falmouth ...	1031.6	38	SE	3	b	1029.7	−2	41	+12	N	1	-	bc	2	-	41	28	bx.b	b.	b.bc	9.5
	Jersey (St. Aubin)	1030.9	42	NNE	3	b	1032.2	*	32	−3	E	2	-	b	1	-	44	28	bm.b	b	bmw.x	9.8
	Portland Bill ...	1030.8	41	W	1	b	1031.8	−1	42	+8	SW	3	-	b	2	-	44	34	b	b	b.bc	*
	Dungeness ...	1029.4	41	NW	2	cz	1030.9	o	35	+8	NW	1	NW	cm	3	-	44	26	bz	boz	bex.m	*
	Dover	1029.2	39	NW	1	c	1032.3	o	33	+4	NW	1	-	bcz	2	-	43	27	bz.bc	bc.bc	c.bc.bx	6.1
	Wick	1022.9	37	SW	3	bc.	1016.8	−5	39	+5	S	4	S	o	4	-	40	32	bc.o	o.bc	bc.om	*
	Nairn	1024.3	38	SW	1	cg	1016.6	*	38	+3	-	o	-	ow	1	-	42	32	g.c	cg	ow	0.1
	Aberdeen ...	1025.1	40	W	1	c	1021.0	−5	35	+1	S	3	W	bc	2	-	45	32	b.bc.o	o.cz	c.bc	2.4
	Leith	1026.2	41	WSW	2	bc	1021.8	−4	38	+2	S	2	-	b	*	-	44	35	b.bc.c	c.bc	b	*
	Tynemouth ...	1027.0	40	NW	2	bm	1026.5	o	34	o	WSW	2	-	bcm	2	-	45	32	c	b	bc	*
	Spurn Head ...	1028.7	41	NW	3	bc	1029.6	−2	34	o	WSW	3	-	bc	4	-	42	31	bcm	bc	oq	5.6
	Yarmouth ...	1029.1	38	WNW	2	bcf	1032.3	+1	31	+4	W	2	W	bcf	1	-	44	30	bcf	bcf	cf	5.0
	Clacton-on-Sea	1028.1	40	WNW	2	bcm	1030.7	o	34	+5	WNW	1	NW	cm	1	-	42	28	bc.c.o	o.cm	bcx.cm	0.1
	Nottingham ...	1029.3	40	W	3	bc	1029.5	*	27	o	SW	1	-	bmx	*	-	45	26	b.bcm	bcm	bc.bm	5.3
	Bath	1031.0	41	WNW	1	o	1031.6	*	25	−1	?	2	-	b	*	-	45	24	m.b.	m.b.bc.o	c.bc.bm	8.0
	London (Kew Obsy.)	1030.6	39	WNW	1	bm	1032.4	+1	26	−4	-	o	-	fx	*	-	44	26	bcmx.omx	b.bc.b.bm	bm.fx	5.2
ICELAND, FAEROE, &c.	Spitsbergen ...	1008.7	14	N	2	o	1006.6	−1	10	+7	NE	2	*	bc	*	*	14	3				
	Isafjord		*									*	*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1018.7	28	E	3	c	1016.0	−1	27	+4	S	6	-	bc	4	*	28	19				
	Bodö	1012.6	23	E	4	b	1011.3	+3	28	+5	E	4	-	s	2	?	28	21				
	Christiansund	1015.4	37	SW	4	o	1017.6	o	39	+9	SSW	3	-	o	4	3	39	30				
	Skudesnaes ..	1022.7	36	S	4	r	10230	o	37	+12	-	o	-	m	2	4	36	25				
	Færder (X'iania Fjord)	1020.8	32	WSW	3	c	1022.3	o	28	+1	NNW	1	-	b	1	-	32	27				
	The Scaw (Skagen)	10233	34	WNW	1	b	1023.1	o	36	+6	WSW	2	-	o	2	Trace	36	28				
	Blaavands Huk	1026.6	34	NNW	1	b	1027.8	o	37	+3	W	2	-	o	2	Trace	36	30				
	Haparanda ...	1011.1	21	N	4	o	1015.7	+2	7	−12	NNE	2	-	bc	*	1	23	7				
	Hernösand ...	1015.5	19	N	4	b	1019.3	o	3	−15	-	o	-	b	*	-	25	1				
	Stockholm ...	1016.0	27	W	4	b	1020.6	+1	16	−9	W	2	-	b	*	-	28	16				
	Wisby	1019.1	30	NNW	6	b	1021.5	o	30	o	NW	4	-	c	*	-	32	28				
	Karlstad	1020.7	25	W	2	b	1023.0	+1	12	−6	-	o	-	bc	*	-	30	9				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1028.3	37	NNW	2	b	1031.5	o	28	−9	S	2	-	b	1	-	41	28				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1029.0	41	NNW	4	o	1032.3	+1	36	+1	NE	2	*	m	2	-	43	36				
	La Hève	1030.6	36	NNW	2	b	1031.3	*	37	+3	SSE	2	*	b	2	-	45	34				
	Ushant	1030.9	43	SE	3	b	1026.9	*	41	+2	S	5	*	o	3	-	46	36				
	Brest (St. Mathieu)	1031.7	43	ESE	1	b	1031.5	−1	41	+7	SE	4	*	b	3	-	50	34				
	Rochefort (Ile d'Aix)	1029.5	39	NE	3	b	1032.8	o	34	−1	E	3	*	b	*	-	46	32				
	Biarritz												*									
	Paris	1029.2	36	N	2	b	1032.4	+1	30	−2	NE	2	-	o	*	-	43	30				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1015.3	42	-	o	c	1021.3	+6	37	−1	-	o	*	b	4	-	52	34				
	Perpignan ..	1022.0	39	NW	4	b	1026.9	+3	36	−1	NW	4	-	b	*	-	40	34				
	Sanguinaire ...	1011.4	48	E	2	c	1012.7	*	45		E	2	*	c	5	-	54	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020.2	54	NNE	5	bc	1026.6	+1	41	−7	SSE	1	-	bc	1	-	54	39				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1019.1	57	NW	2	c	1023.4	+1	50	−4	NNE	3	-	o	*	-	59	50				
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)	1018.9	*	S	5	o							*									
	Madeira (Funchal)	1024.0	63	NE	2	o	1024.0	o	55	o	NE	2	-	b	2	-	64	54				

GALES.

Duration and Extreme Force in British Islands.

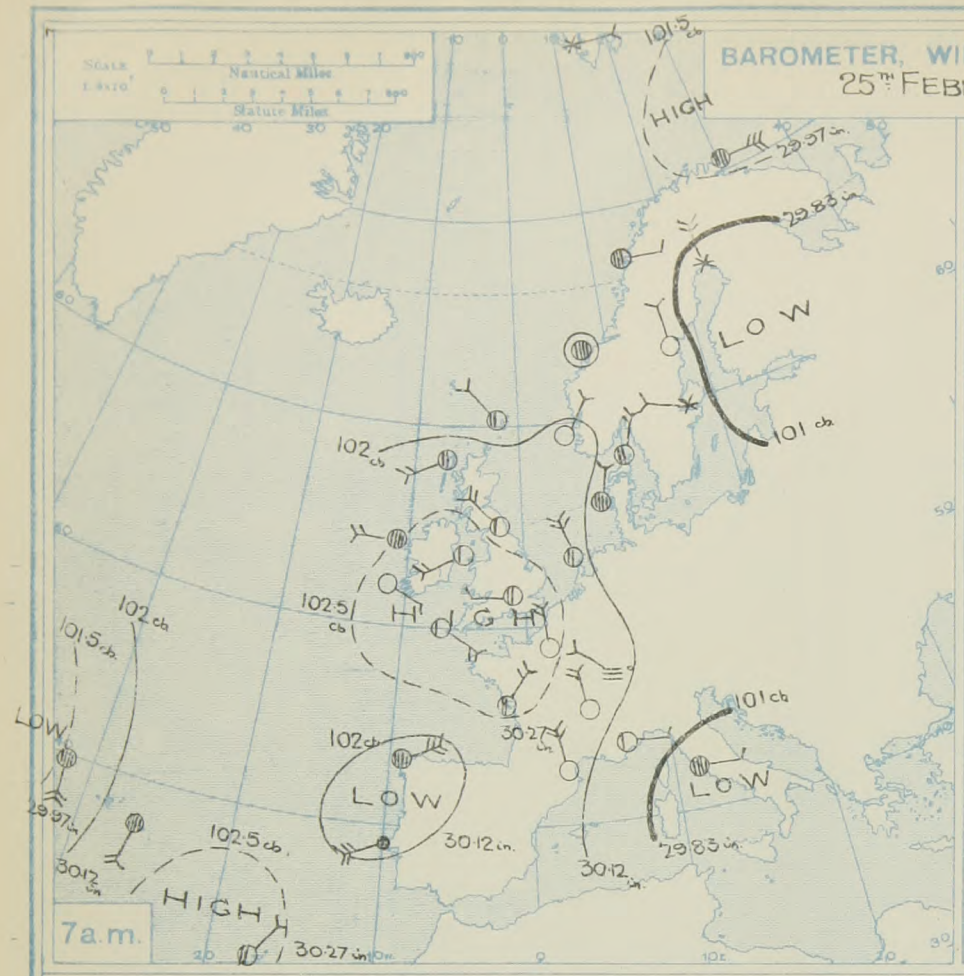
Stornoway
26th 3am. squalls SSW 8
7am. S 8.

Malin Head.
26th 6am-7am S 8.

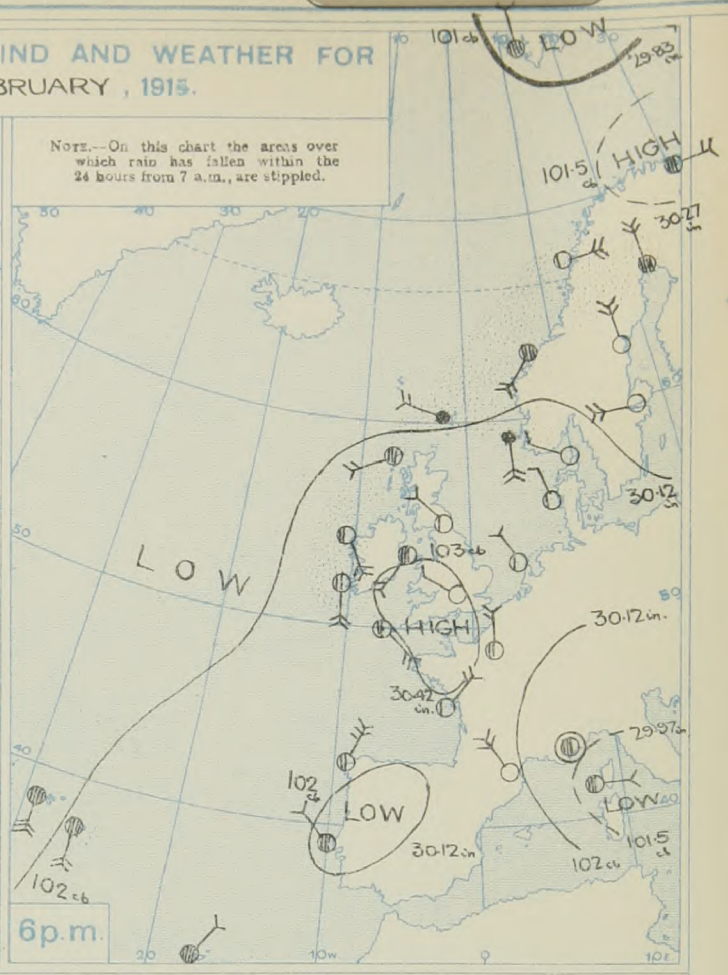
Blacksod Point
3am-7am S 9.

* 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 25th FEBRUARY, 1915.

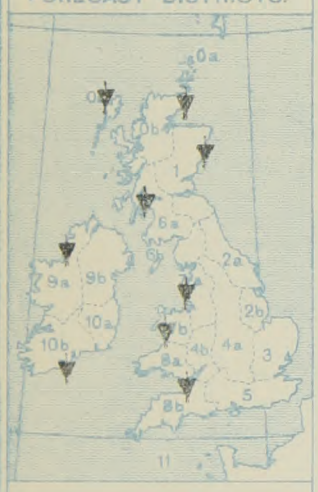


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



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 at 4 a.m.

0 {a b} Strong Southerly winds, a gale in places; dull, squally, some rain; becoming milder.

1 2 {a b} Freshening Southerly and South-Westerly winds; fine at first, cloudy later, with rain in places; becoming milder.

3 4 {a b} 5 Light winds to-day, with fine, but misty weather; moderate to fresh South-Westerly winds to-morrow, with some showers, becoming milder.

6 {a b} 7 {a b} Same as No. 0.

8 {a b} Freshening Southerly winds; fair at first, some rain later; becoming milder.

9 {a b} 10 {a b} Strong Southerly winds, a gale in places; mild; unsettled, occasional rain.

Western Channel and Bay 11 Fresh to strong Southerly winds and a rather rough sea; fair at first, showery later; becoming milder.

FURTHER OUTLOOK.

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

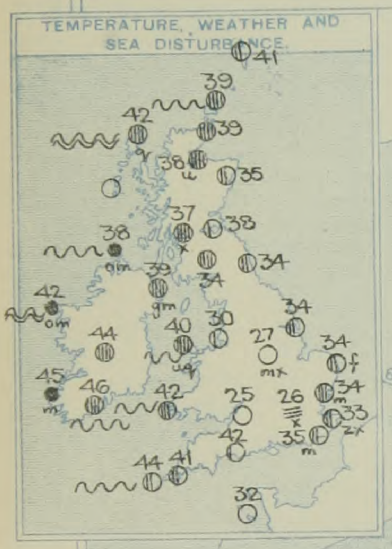
Millibars Inches.
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

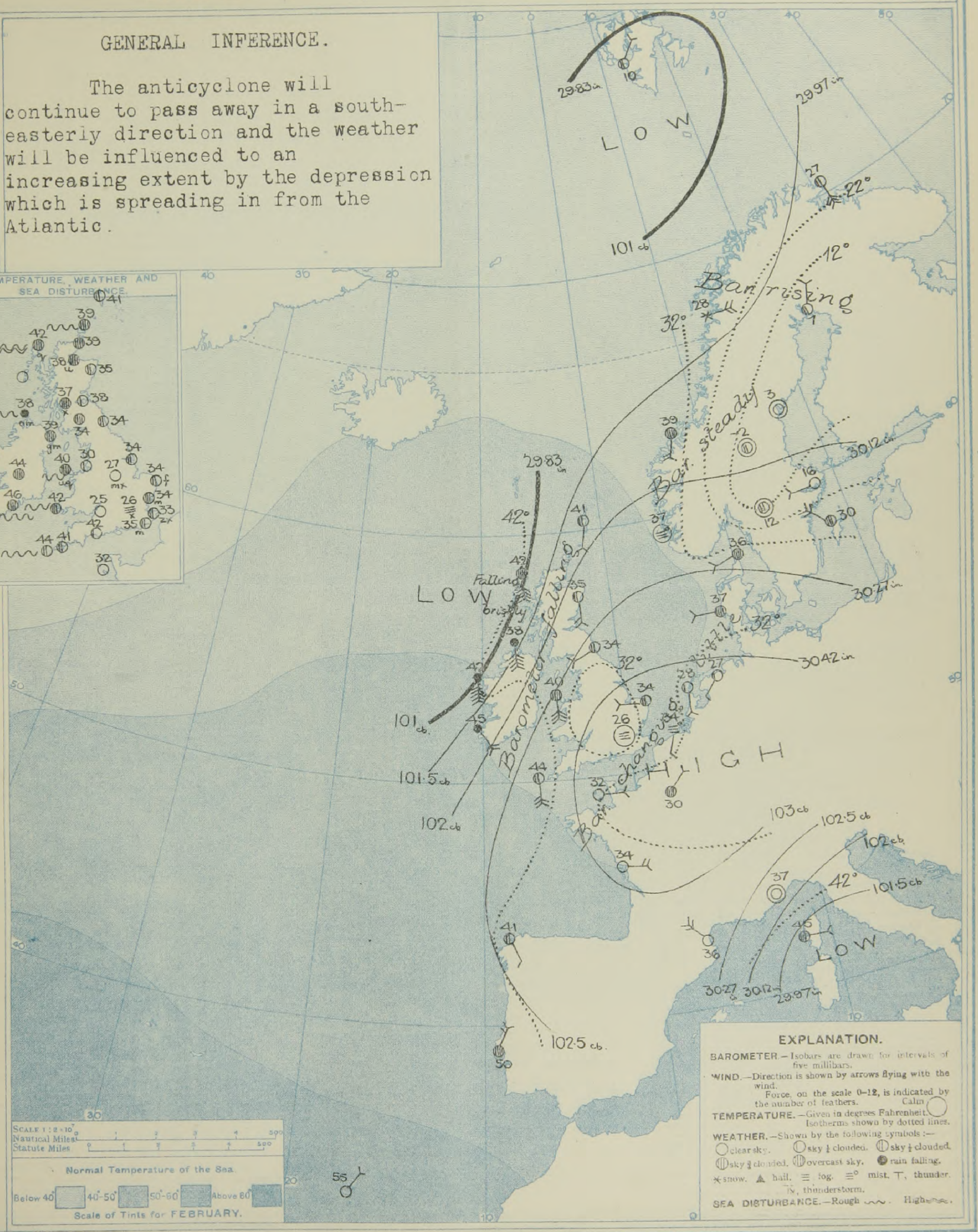
SYNOPTIC CHART FOR 7 a.m., FRIDAY, 26TH. FEBRUARY, 1915.

GENERAL INFERENCE.

The anticyclone will continue to pass away in a south-easterly direction and the weather will be influenced to an increasing extent by the depression which is spreading in from the Atlantic.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





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 FEBRUARY.

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 ⅝ clouded.
◍ sky ⅞ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ϒ, thunder. ϒ̄, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ~~.

DAILY WEATHER REPORT. Friday, 26th February, 1915.

REPORTS FOR YESTERDAY.

25th February.

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.								
Corunna	1024.2	50	NNE	4	o	1019.1	−1	48		ENE	5	–	o	3	–	50	45
Lisbon	1021.6	57	WNW	2	o	1019.1	−3	54	o	WSW	4	–	r	7	1	61	54
Rome	1005.0	45	–	o	c	1005.5	o	43	o	E	1	–	o	*	–	50	43
Horta.	1018.9	*	SW	3	f	1019.3	+1	60	−1	S	5	*	o	5	1	61	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	2	44	33	fpd	o	4.5
Scotland.	Banff	–	41	32	c.o	o.c.bc	0.7
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	45	27	bc.b.bc	bc.c	4.9
Eng. N.E.	Scarborough	*	48	30	of	c.b	2.4
Eng. N.E.	Skegness	0.3	44	27	bc	bc.c	6.0
Eng. N.W.	Morecambe	–	41	33	bc.b	bc.b	6.1
Eng. N.W.	Blackpool	–	46	36	b	bc.c	7.5
Eng. N.W.	Southport	–	44	34	c.bc.c	c.bc	6.8
Midlands.	Buxton	–	40	26	bc	bc	7.0
Midlands.	Leamington Spa	–	42	25	b.bc	bcm	5.8
Midlands.	Malvern	–	45	29	b.bc	bc.b	8.6
Midlands.	Ross-on-Wye	–	46	22	c	b	7.4
Wales.	Rhyl	–	44	27	b	bc	7.6
Wales.	Colwyn Bay	–	45	30	b.bc.by	b.bc	9.0
Wales.	Llandudno	–	47	38	b	b	9.3
Wales.	Aberystwyth	–	44	28	c.o.c	c.bc	3.0
Wales.	Tenby	–	44	24	bc	bc	9.3
Wales.	Swansea	–	45	27	b	b	7.7
England. E.	Cromer	1	43	32	o.c.bc	c.b.o.c	2.0
England. E.	Lowestoft	2	44	27	bc.c	c.bc	4.5
England. E.	Felixstowe	–	42	32	bc	bm	0.8
England. E.	Walton-on-Naze	–	41	26	c	c.bc	0.2
England. E.	Southend-on-Sea	–	45	27	c.bc	b.bc	4.3
England, S.E.	Tunbridge Wells	–	43	24	m.b	b.bc.m.c	5.8
England, S.E.	Margate	–	42	34	bc.c.bc	bc.c	2.0
England, S.E.	Ramsgate	–	40	28	c	c	2.4
England, S.E.	Folkestone	1	40	31	b.o.c	bc.o.bc	4.8
England, S.E.	Hastings	–	43	28	b	o.c	6.3
England, S.E.	Bexhill-on-Sea	–	44	27	b	bc.o	6.5
England, S.E.	Eastbourne	–	47	29	b.o	b.bcm	6.4
England, S.E.	Seaford	–	45	26	b	b	8.3
England, S.E.	Brighton	–	46	28	c.bc	c.bc.b	7.4
England, S.E.	Worthing	–	46	27	b	b	7.2
England, S.E.	Littlehampton	–	44	22	b	bc.b	5.8
England, S.E.	Bognor	–	45	28	b	b	7.9
England, S.E.	Southsea	–	44	28	o.c.b	b	7.1
England, S.E.	Bournemouth	–	45	24	b	b	9.6
England, S.W.	Weymouth	–	48	26	g.b	bm	9.3
England, S.W.	Torquay	–	47	27	g.b	b	9.5
England, S.W.	Paignton	–	46	24	b	b	9.2
England, S.W.	Falmouth	–	44	28	bc.b	b	9.9
England, S.W.	Penzance	–	46	30	b	b	9.8
England, S.W.	Newquay	–	44	26	bc.bv	bv	9.7
England, S.W.	Ilfracombe	–	44	29	g.b	bl	9.5
England, S.W.	Weston-super-Mare	–	44	24	b	b.bc	7.2

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.)	62	70	3.3	43	28	23	0.3	b, bc	bc	bc.x
City (Bunhill Row)	*	*	3.9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	89	4.0	45	27	24	–	bc	bc	bx.bmx
Camden Sq. (Brit. Rainfall)	66	72	4.3	45	28	24	–	c.b	b	*
Hampstead (Reservoir)	*	72	5.2	43	28	17	–	bc	bcx	bf
Richmond Park	*	*	5.3							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	84	4.5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
682 Joules	17.9 Milliwatts.	40 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.	–	41	29	26	bc	bc	bc.o	*
Darwen to 9 p.m.								
Manchester ,,	–	42	29	*	f.c.o	o.bc.co	o.cm	0.7
Birmingham ,,	–	43	27	18	*	b	c	5.7
Oxford to 9 p.m.	*							
Teignmouth to 9pm.	–	47	25	22	bc	b	b	9.2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	45	27	20	bbc	m.b	b.by	*

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

26th-27th Feb. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.49 / 6.47	12.6 / 12.6	5.23 / 5.25
Greenwich	6.54	12.13	5.32
Wick	6.53	12.13	5.33
Valencia	7.18 / 7.16	12.25 / 12.25	5.32 / 5.34
	7.37 / 7.35	12.54 / 12.54	6.12 / 6.13

NOTES ON YESTERDAY'S WEATHER.

The maximum temperatures ranged in most places between 40° and 45°. Over England and Ireland the duration of bright sunshine was large, more than 9 hours in the Channel Islands and on the coasts of Devon, Cornwall and South 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. 58.

Saturday, 27th February 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 ...	1000·5	41	S	7	omr	994·2	−2	39	−2	WSW	4	–	bc	4	8	42	37	cu	omr	omp.bc	*
	Deerness ...	1000·0	41	SSW	6	o	997·3	*	35	−4	WSW	5	–	b	3	5	41	34	oru	r.o	o.c.bc.b	0.0
	Stornoway ...	999·1	42	WSW	4	op	997·5	−3	33	−9	SW	5	SW	bcq	4	19	45	33	orq	orq.op	bep.hsq	0.0
	Castlebay (Barra Isd.)	1001·4	45	W	3	o	1000·6	−3	37	−3	W	4	–	o	4	4	46	34	r	rio	op.c.o	0.0
	Glasgow ...	1008·2	37	SSW	4	or	1005·5	+2	36	−1	SW	3	W	o	*	19	42	33	or.rsq	ors.rq	or.os.p	0.0
	Eskdalemuir ...	1012·0	33	SSW	6	rsq	1007·6	+1	33	−1	W	5	–	os	*	41	39	32	o.os	os.ors	ors.or	0.0
	Malin Head ...	1005·7	43	SW	4	cmp	1004·7	−2	37	−1	WNW	6	W	bcq	6	5	43	35	cmq.p	omr	beq.ph	0.0
	Blacksod Point	1008·1	43	WSW	4	cmp	1008·4	+3	39	−3	WSW	4	–	cp	4	6	52	35	omd	bcm	cm.bc.b	*
	Valencia ...	1010·8	48	WSW	3	m	1015·9	o	43	−2	SW	4	–	op	4	27	48	42	omr	omr	m.r.c.b	0.0
	Roche's Point	1014·3	46	SSW	7	r	1016·6	*	39	−7	W	3	W	c	5	18	47	38	r	r	r.bc.c	*
	Birr Castle ...	1011·9	42	S	5	r	1013·0	*	36	−8	SSW	1	–	c	*	10	45	35	or	or	c	0.0
	Donaghadee ...	1007·8	40	SSW	7	ormq	1008·3	+2	35	−4	SW	3	SW	cg	2	4	42	34	omrq	omrq	or.bcp	*
	Liverpool (Bidston)	1018·0	40	SSE	3	o	1011·4	+4	40	+10	WSW	4	W	cq	4	1	42	30	om	cm	opq	0·0
	Holyhead ...	1014·5	44	SSW	7	omrq	1012·1	+3	41	+1	W	5	W	cgq	4	17	44	39	omgq	o.omrq	or.o.c	0.0
	Pembroke (St. Ann's)	1018·1	43	SSW	7	r	1015·4	+4	43	+1	NNW	3	NW	c	4	8	45	38	cq	oq	oqrm	0·0
	Scilly (St. Mary's)	1018·4	44	S	6	omr	1017·9	+3	44	o	WNW	5	NW	bcq	6	5	48	36	cm	omp	omp.bc	0.0
	Falmouth ...	1020·6	44	S	3	o	1017·9	+4	43	+2	NNW	1	–	c	3	12	46	40	c.o	o	e.o.r.o.c	0.0
	Jersey (St. Aubin)	1028·0	43	S	5	o	1019·6	*	44	+12	SSW	5	–	o	4	–	45	32	b.o	o	oe.o	3.2
	Portland Bill ...	1024·8	44	SSW	5	c	1015·3	−3	45	+3	SW	6	SW	or	6	2	45	41	bc.c	c	c.or	*
	Dungeness ...	1027·7	42	SW	4	c	1018·8	−3	40	+5	SSW	7	–	oq	6	–	46	34	cm	c	bc.oq	*
	Dover	1026·9	40	SSW	5	b	1018·5	−2	38	+5	SSW	8	S	o	6	1	43	32	bc.c	c.bc.b	bq.c.o	4·0
	Wick	1001·0	41	SSW	6	o	998·8	+1	32	−7	ESE	2	–	bc	3	1	42	32	ompq	ompq	omq.bc	*
	Nairn	1002·7	42	SW	2	cu	1000·4	*	33	−5	WSW	2	–	bc	2	2	44	32	g.cq	beq	ors.c	1.3
	Aberdeen ...	1007·2	39	SSW	4	o	1002·0	+2	35	o	WSW	3	W	be	3	0·4	40	35	c.oq.p	oqp	opq.bc	0.0
	Leith	1006·8	40	SSW	6	r	1004·9	+1	37	−1	WSW	3	W	bc	*	2	43	36	bc.c.or	orq	rq	*
	Tynemouth ...	1015·0	40	SSW	4	om	1006·6	o	40	+6	WSW	3	–	bcm	3	–	40	33	om	om	bcmq	*
	Spurn Head ...	1023·2	39	SW	6	o	1011·8	o	38	+4	SSW	6	–	oq	5	7	41	32	bc	oq	orq	5·5
	Yarmouth ...	1025·9	40	S	2	bcm	1015·6	−5	38	+4	S	5	S	orm	3	3	45	32	bcm	bcm	omr	8·0
	Clacton-on-Sea	1025·6	41	SSW	2	bc	1016·4	−4	40	+6	SSW	5	SW	org	4	0·3	44	33	c.bcm	bcm	bc.ogr	6·8
	Nottingham ...	1021·5	41	SSW	5	c	1012·1	*	40	+13	SW	4	SW	dm	*	4	44	26	b.bcm	bc.c	c.or	2·6
	Bath	1024·0	41	SSW	4	o	1014·5	*	44	+19	WSW	4	W	o	*	3	46	25	m.b.bc.o	o.c	orq	1·4
	London (Kew Obsy.)	1026·2	40	S	2	bm	1016·4	−1	40	+14	SSW	4	–	odm	*	1	44	26	fx.bmz.b	c.o om	om.o.odm	5·2
ICELAND, FAEROE, &c.	Spitsbergen ...	1007·0	−6	NE	2	b	1013·9	+7	3	−7	N	2	*	b	*	*	10	−6				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*				*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1012·7	21	S	3	b	1008·8	o	23	−4	SW	2	–	c	2	*	27	21				
	Bodö	1013·3	30	E	2	b	1005·5	−4	32	+4	E	4	–	b	2	–	32	27				
	Christiansund	1011·1	39	SW	2	o	999·9	−6	41	+2	E	2	–	o	4	+	43	39				
	Skudesnaes ..	1016·6	39	S	6	b	1003·0	−5	37	o	S	9	–	r	5	11	41	37				
	Færder (X'iania Fjord)	1020·6	32	S	2.	bc	1013·2	−4	34	+6	S	6	–	m	3	–	34	28				
	The Scaw (Skagen)	1023·1	37	WSW	2	o	1016·7	−5	36	o	SSW	4	–	o	3	–	41	34				
	Blaavands Huk	1026·9	36	SW	2	b	1018·6	−4	36	−1	SSW	5	–	o	5	–	41	34				
	Haparanda ...	1016·7	12	SW	2	o	1016·4	o	−9	−16	NNW	2	–	f	*	–	18	−9				
	Hernösand ...	1018·4	14	–	o	s	1015·5	−1	12	+9	–	o	–	f	*	–	25	−15				
	Stockholm ...	1020·7	27	WSW	2	b	1019·8	o	30	+14	W	2	–	o	*	–	30	16				
	Wisby	1023·3	30	NW	2	b	1022·1	o	34	+4	WSW	2	–	o	*	–	36	28				
	Karlstad	1021·6	30	–	o	f	1017·6	−4	34	+2·2	SW	4	–	o	*	–	34	12				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1028·7	37	S	4	b	1019·5	−5	32	+4	S	5	–	c	2	–	43	28				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1028·2	41	SSW	5	c	1019·4	−6	36	o	S	6	*	o	5	–	43	36				
	La Hève	1022·4	37	?WSW	4	o	1021·3	*	36	−1	S	5	*	o	4	10	45	34				
	Ushant	1022·9	46	? SW	6	o	1018·6	*	48	+7	NW	3	*	f	3	2	48	41				
	Brest (St. Mathieu)	1024·3	45	S	6	o	1019·9	o	49	+8	WNW	3	*	f	4	6	50	45				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1028·6	42	E	2	bc	1023·4	o	41	+9	WSW	2	*	o	o	–	46	32				
	Paris	1031·4	36	SSE	2	b	1026·3	−2	30	o	SSE	2	–	b	*	–	45	30				
	Belfort	1032·8	29	ENE	2	m	1031·1	*	23		ENE	4	*	m	*	–	35	23				
	Lyons	1031·4	32	NNW	2	b	1030·6	*	25		S	1	*	o	*	–	?	?				
	Nice																					
	Perpignan ..	1027·1	41	NW	2	b	1027·9	o	30	−6	SW	1	–	o	*	–	46	41				
	Sanguinaire ...	1017·5	46	E	2	o	1019·1	*	42	+3	E	2	*	b	3	–	54	37				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026·4	54	NW	3	bc	1027·8	+2	48	+7	SSE	3	–	f	1	1	55	41				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Rome														*							
	Azores (Horta, 8 a.m.)		*										*									
	Madeira (Funchal)	1022·6	64	NE	2	c	1023·8	?	55	o	?	?	N	bc	?	–	66	55				

GALES.

Duration and Extreme Force in British Islands.

Stornoway.
26th 1pm S.8

Eskdalemuir
26th 7.30pm gust 25mps
" 9 " SSW 8

Malin Head
26th 7am-5pm S8.

Blacksod Point
26th 7am-Noon S9

Holyhead.
26th 6pm gust SSW 23mps
" 9pm SSW 8. gust SSW 24mps

Pembroke
26th 8pm-27th 2am SSW. 8

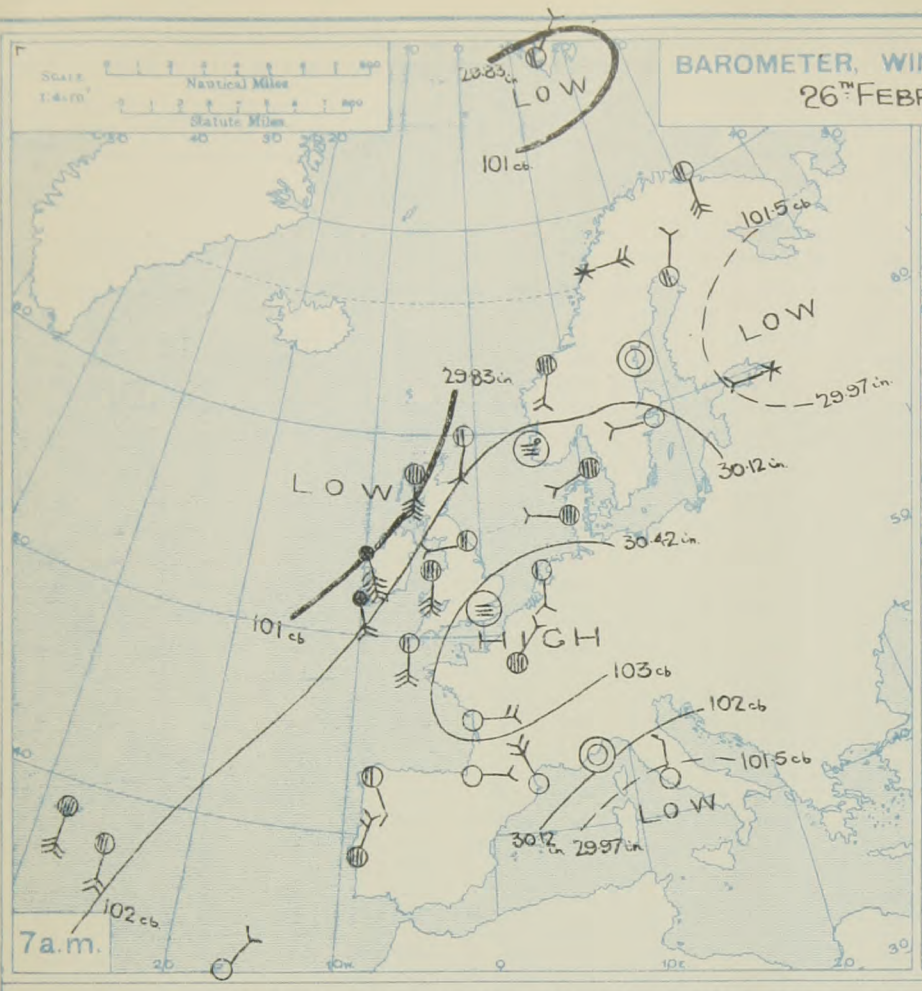
Wick
26th 11am-7pm SW 8

Aberdeen
26th 1pm gust S 22mps
" 8pm " SSW 18mps

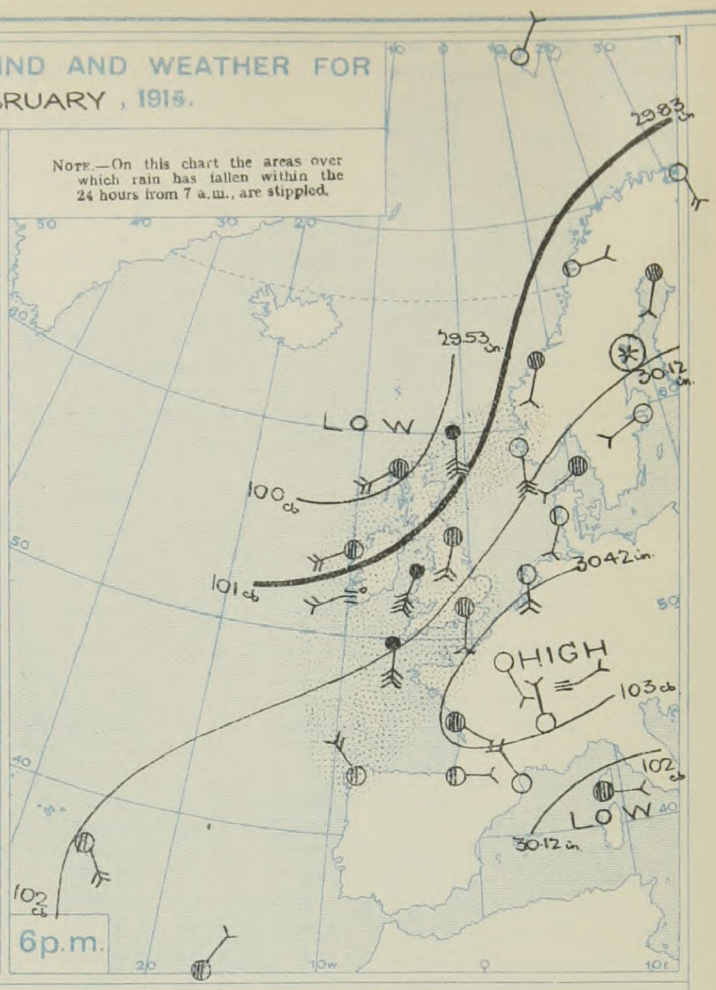
Spurn Head
27th 1am-3am. WSW 8.

* 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 26TH FEBRUARY, 1915.

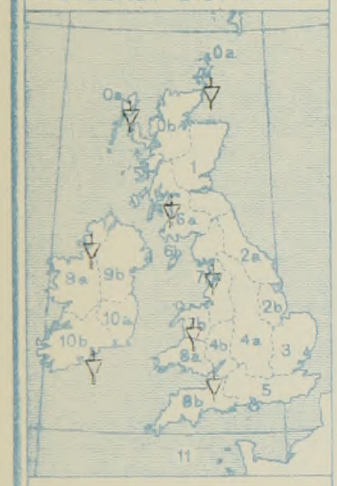


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



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

Western Channel and Bay 11

0 (a, b), 1 — Light or moderate Westerly to South-Westerly winds; mostly fair, but snow showers in places; remaining cold.

2 (a, b) — Moderate South-Westerly winds; fair to-day, some snow or sleet to-morrow; remaining cold.

3, 4 (a, b), 5 — Wind veering temporarily to West or North-West and weather improving. Backing to the Southward later, with some rain. Normal temperature.

6 (a, b), 7 (a, b), 8 (a, b) — Moderate Westerly winds and fair weather; followed by freshening South-Westerly or Southerly winds and some rain or sleet; remaining cold.

9 (a, b), 10 (a, b) — Freshening Southerly winds; cloudy, changeable, some rain; remaining cold.

11 — Freshening Southerly and South-Westerly winds and a rough sea; cloudy, changeable, some rain; normal temperature.

Millibars / Inches

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

FURTHER OUTLOOK.

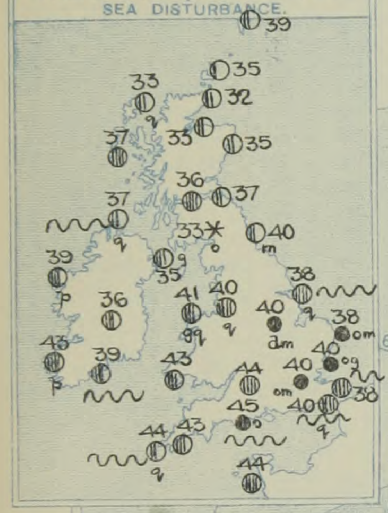
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. N. SHAW, Director

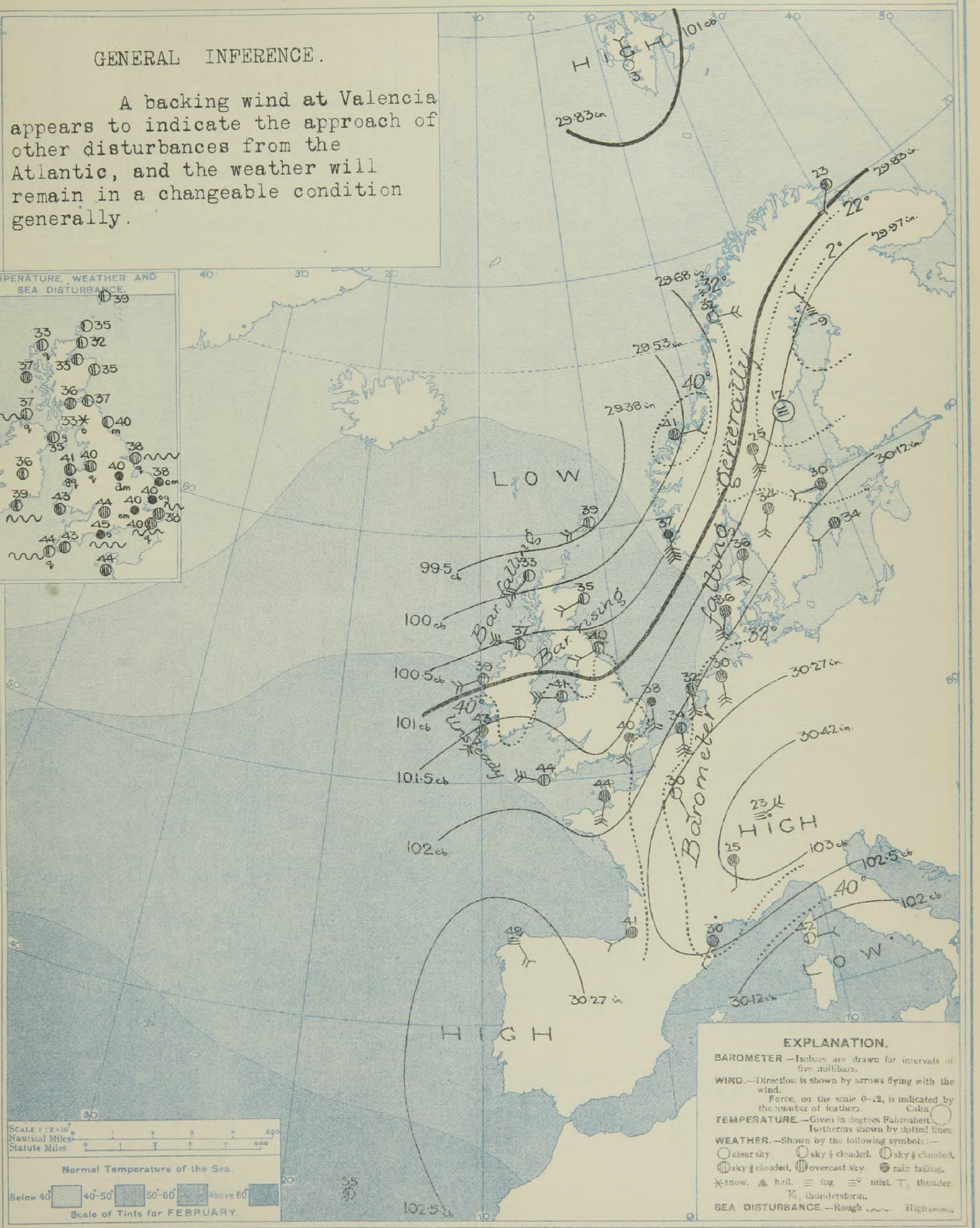
SYNOPTIC CHART FOR 7 a.m., SATURDAY, 27TH FEBRUARY, 1915.

GENERAL INFERENCE.

A backing wind at Valencia appears to indicate the approach of other disturbances from the Atlantic, and the weather will remain in a changeable condition generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.





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 FEBRUARY.

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 ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊤, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

DAILY WEATHER REPORT. Saturday, 27th February, 1915.

REPORTS FOR YESTERDAY.

26th February.

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.								
Castlebay. (sun 3.5 hr)	.	.	.	.	.	1009.7	−1.0	40	+3	S	7	–	r	6	5	45	38
Petrograd.	1004.2	28	W	2	3	1011.4	+3	23		W	2	–	3	*		41	23
Biarritz	1026.3	41	ENE	2	b	1030.9	+1	32		E	2	–	b	1	–	48	30
Rome	1012.0	43	N	2	b	1013.5	0	39	−4	N	1	–	b	*	–	50	37
Horta	.	.	.	.	.	1016.7	0	59	−1	SSW	5	–	0	3	–	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	0.3	41	33	o.c	p.cq	0.0
Scotland.	St. Andrews	5	40	33	*	*	0.0
Eng., N.E.	Harrogate	–	41	29	c.bc.c	c.o	0.8
Eng., N.E.	Scarborough	*	41	33	o	c.b	1.5
Eng., N.E.	Skegness	–	44	31	bc	bc.c.o	6.1
Eng., N.W.	Morecambe	1	39	30	o	or	0.0
Eng., N.W.	Blackpool	1	38	29	o	or	0.0
Eng., N.W.	Southport	–	40	30	c.o	or	0.0
Midlands.	Buxton	–	38	28	b.c	bc.c	1.2
Midlands.	Leamington Spa	–	43	25	bc	c	3.6
Midlands.	Malvern	–	42	32	bc	c	8.6
Midlands.	Ross-on-Wye	–	42	25	bc.cq	bc.c	1.2
Wales.	Rhyl	–	43	30	o	o	0.0
Wales.	Colwyn Bay	0.3	48	30	ow	oudq	0.0
Wales.	Llandudno	–	45	36	o	o	0.0
Wales.	Aberystwyth	–	44	33	o.c.o	c.o	0.0
Wales.	Tenby	–	45	27	bc.c.o	o	0.0
Wales.	Swansea	–	43	26	o	o	0.0
England, E.	Cromer	–	45	35	m.b	bm.c	6.2
England, E.	Lowestoft	–	45	32	o.bem	bc	6.4
England, E.	Felixstowe	0.3	45	30	bm	b	6.6
England, E.	Walton-on-Naze	–	44	30	b	b	6.3
England, E.	Southend-on-Sea	–	47	31	m.b	b.bc	6.5
England, S.E.	Tunbridge Wells	–	46	28	m.b	b.bc	8.1
England, S.E.	Margate	–	42	33	b	3	4.8
England, S.E.	Ramsgate	–	43	31	bc	c.bc	4.8
England, S.E.	Folkestone	–	39	30	b	o.bc	3.5
England, S.E.	Hastings	–	46	35	bc.b	bc	6.8
England, S.E.	Bexhill-on-Sea	–	46	33	b	bc.o	6.6
England, S.E.	Eastbourne	–	47	30	b	b.bcq	6.3
England, S.E.	Seaford	–	47	30	bc	c	6.7
England, S.E.	Brighton	–	46	30	bmq.bc	bc.c.o	6.7
England, S.E.	Worthing	–	47	27	b	bc	6.0
England, S.E.	Littlehampton	–	45	23	b	b	4.9
England, S.E.	Bognor	–	45	29	b	b.o	5.4
England, S.E.	Southsea	–	46	27	of.bc	bc.c	4.0
England, S.E.	Bournemouth	–	44	24	bc	cq	2.0
England, S.W.	Weymouth	–	45	27	c.bc	bc.om	0.6
England, S.W.	Torquay	–	44	27	c	o	0.2
England, S.W.	Paignton	–	44	20	bc.o.bc	bc	0.0
England, S.W.	Falmouth	–	46	32	c.o	o	0.0
England, S.W.	Penzance	–	46	41	o	c	0.0
England, S.W.	Newquay	–	46	31	o	o	0.0
England, S.W.	Ilfracombe	–	45	30	o	o	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.)	61	90	7.7	45	36	31	2	b	b.c.o	o.orq
City (Bunhill Row)	*	*	4.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	95	5.0	46	32	30	1	b	b	bc.ure
Camden Sq. (Brit. Rainfall)	64	95	4.4	45	32	34	2	f.bc	b.bc	*
Hampstead (Reservoir)	*	96	4.6	43	33	27	2	bc	c.or	od
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	61	92	3.9							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
708 Joules	185 Milliwatts.	40 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.	6	45	33	29	bc.cq	orq	orq	*
Darwen to 9 p.m.	3	37	28	27	bc	c.b.o	oru	0.0
Manchester ,,	0.4	42	30	*	c.o	o	or	0.0
Birmingham ,,	–	40	29	26	c	c	o	1.3
Oxford to 9 p.m.	*							*
Teignmouth to 9pm.	–	45	26	?	b	bc.c.o	o	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	46	30	20	bc.b	b.bc	bc.o	*

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

27th and 28th Feb. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.47 / 6.45	12.6 / 12.6	5.25 / 5.27
Greenwich	6.53 / 6.51	12.13 / 12.13	5.33 / 5.35
Wick	7.16 / 7.14	12.25 / 12.25	5.34 / 5.36
Valencia	7.35 / 7.33	12.54 / 12.54	6.13 / 6.15

NOTES ON YESTERDAY'S WEATHER.

At some of our northern stations the thermometer failed to reach 40°. Snow or sleet fell in several parts of North Britain. A Southerly gale was experienced on our west and north coasts, and locally in the south and south-east.

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. 59.

Sunday, 28th February 1915

C

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 ...	992·1	37	SSW	4	bc	988·8	0	33	-6	NW	2	–	bc	2	2	41	32	bc	bc,sp	bc,sp	*
	Deerness ...	990·5	36	SSW	6	bc	991·5	*	35	0	W	6	NW	bc	4	2	42	32	b.bc	bc.c	bc,pe.th	?3·4
	Stornoway ...	991·5	33	WSW	4	cps	994·4	0	30	-3	SW	2	SW	bc	2	6	36	30	cps	cps	bcps	1·7
	Castlebay (Barra Isd.)	994·1	37	WNW	5	ohsp	998·2	+1	35	-2	WNW	5	–	ohp	5	2	40	31	o.cshp	o.csph	bc,shp	0·7
	Glasgow ...	997·9	33	W	4	o	1000·9	+4	30	-6	W	1	–	osp	*	6	38	29	osq.op	o.c.osp	csp.b.s	0·1
	Eskdalemuir ...	999·3	34	WSW	5	oq	1001·8	+2	29	-4	W	5	–	bc	*	4	37	28	ops	opsq	osq.c	1·5
	Malin Head ...	999·5	37	W	6	cmqp	1001·5	0	38	+1	WNW	8	NW	cq	9	3	40	32	cmqp	cmqp	cqp	1·0
	Blacksod Point	1006·6	38	WSW	6	cqp	1009·6	0	39	0	WNW	6	NW	cqp	6	6	42	32	bcp	bcqp	cqp	*
	Valencia ...	1014·9	45	W	5	o	1016·6	0	43	0	W	4	–	c	5	3	47	41	cp	cp	cq	4·4
	Roche's Point	1014·1	44	W	4	cp	1016·2	*	41	+2	WNW	4	NW	c	4	0·1	48	39	c	cp	c	*
	Birr Castle ...	1009·5	40	W	5	c	1011·9	*	37	+1	W	1	–	c	*	3	44	35	cp	cp	cp	3·4
	Donaghadee ...	1001·3	36	W	4	bcm	1004·8	0	34	-1	W	5	W	bcqp	3	1	44	32	bcmqp	bcmqp	b.qpsl	*
	Liverpool (Bidston)	1005·9	42	WSW	6	bc	1006·2	+1	37	-3	W	7	W	oq	6	1	44	33	bc	oq	ohq	2·3
	Holyhead ...	1007·3	42	W	6	ogqp	1008·8	0	40	-1	W	6	NW	cq	5	1	44	38	o.c.o	op.cp.c	op.cp.o	0·6
	Pembroke (St. Ann's)	1011·5	45	W	7	c	1013·4	+1	42	-1	WNW	5	W	cq	5	1	46	37	c	cq	cq	4·4
	Scilly (St. Mary's)	1017·0	47	W	6	oq	1017·6	0	44	0	NW	6	NW	bcq	6	1	49	43	bc.c	cqp	cq,bcq	2·2
	Falmouth ...	1017·0	45	W	4	o	1017·3	+2	41	-2	SSW?	2	–	c	2	1	49	41	c.bc	c.o	o.or.o.c	2·5
	Jersey (St. Aubin)	1018·7	47	WSW	4	o	1017·2	*	45	+1	WSW	4	–	o	4	1	49	43	odp.oe	o,bc.c.o	op.o	0·7
	Portland Bill ...	1014·8	46	WSW	5	bcqp	1013·4	0	44	-1	W	5	W	bc	5	1	47	41	c.bc	bcp	bcp	*
	Dungeness ...	1013·8	44	WSW	4	c	1011·1	0	40	0	W	6	W	bc	6	–	46	38	oq	oq,bc	bcq	*
	Dover	1014·1	43	SW	4	c	1011·1	0	38	0	SW	5	–	b	5	1	46	37	ors.o	o.c.bc	cp.bc.b.	0·5
	Wick	991·0	34	WSW	2	bc	992·5	+1	31	-1	WSW	4	–	c	3	0·2	40	28	bc.cm	cm b	bcsp c	*
	Nairn	992·7	33	W	2	cg	995·6	*	29	-4	WNW	1	–	bc	2	3	41	28	cpsq	cps.	cus	2·8
	Aberdeen ...	993·6	36	WSW	3	c	995·1	+2	33	-2	W	3	W	b	2	–	41	31	bc.c	c	c.bc b	4·1
	Leith	996·3	36	WSW	3	c	998·6	+2	32	-5	WSW	3	W	b	*	1	42	31	bc c op	op c	cps	*
	Tynemouth ...	1000·2	38	WSW	3	omr	999·2	0	32	-8	WNW	4	W	bc	8	2	46	32	bcm	bcm	bcp	*
	Spurn Head ...	1007·2	38	WSW	5	bc	1002·7	-2	37	-1	WNW	6	–	bcq	6	1	48	32	oq c	bc	omq	3·4
	Yarmouth ...	1010·5	42	SW	3	om	1005·6	-2	36	-2	W	4	–	bq	3	1	46	35	omd	om	bq	1·4
	Clacton-on Sea	1011·5	42	SW	3	c	1008·2	0	37	-3	W	3	W	bc	3	0·3	47	36	ogd.	og.bc.c.	c.bc	1·7
	Nottingham ...	1007·1	42	SW	4	r	1006·5	*	36	-4	W	4	W	c	*	3	47	35	o c	c o	op c	3·7
	Bath	1013·4	45	W	4	o	1013·2	*	39	-5	W	3	W	bc	*	2	50	38	o.c.bcq	bc.c.o	op.c.bc	1·7
	London (Kew Obsy.)	1012·6	45	WSW	3	o	1010·9	0	37	-3	WSW	3	–	b	*	0·4	48	36	od.o.c.bc	bc.o.	op c bc.b	1·6
ICELAND, FAEROE, &c.	Spitsbergen ...	1022·1	0	S	4	o	1028·6	+6	1	-2	–	0	*	c	*	*	3	-8				
	Isafjord												*		*	*	*	*				
	Reykjavik ...												*		*	*	*	*				
	Vestmanna ...												*		*	*	*	*				
	Seydisfjord ...												*		*	*	*	*				
	Thorshavn ...												*		*	*	*	*				
NORTHERN EUROPE.	Vardö	1006·0	23	SW	3	b	1006·1	0	30	+7	NE	4	–	o	3	*	30	16				
	Bodö	1000·4	30	E	3	b	998·7	-1	32	0	E	3	–	c	2	–	36	28				
	Christiansund	995·3	39	–	0	o	992·4	-2	34	-7	–	0	–	b	3	–	43	34				
	Skudesnaes ..	998·1	37	SSW	4	o	998·2	-3	36	-1	SSE	4	–	o	4	9	41	34				
	Færder (X'tania Fjord)	1002·9	34	S	6	s	995·1	-3	34	0	SSE	3	–	o	3	8	34	30				
	The Scaw (Skagen)	1006·7	34	SSE	7	s	994·9	-3	36	0	S	5	–	o	5	2	36	28				
	Blaavands Huk	1008·0	34	SW	7	f	995·3	-3	34	-2	WNW	3	–	o	5	6	36	32				
	Haparanda ...	1015·1	16	SW	2	f	1009·6	-3	18	+27	S	4	–	o	*	Trace	32	-9				
	Hernösand ...	1010·7	30	–	0	o	1004·8	-2	28	+16	S	2	–	b	*	–	32	12				
	Stockholm ...	2 1008·4	34	S	2	b	1005·7	-4	34	+4	S	4	–	o	*	–	36	28				
	Wisby	1004·8	34	SW	2	b	1008·2	-5	34	0	S	4	SE	b	*	–	37	32				
	Karlstad	1010·0	34	SSW	4	o	998·9	-3	30	-4	SE	2	–	s	*	1	36	28				
	Petrograd (5 a.m. G.M.T.)	1018·7	19	–	0	o	1018·7	0	16		S	1	–	o	*	–	21	16				
FRANCE, &c.	The Helder ...	1010·9	37	S	6	o	1002·9	0	39	+7	WSW	7	–	c	5	3	39	32				
	Brussels	*	*	*	*	*									*							
	C. Gris Nez ...	1014·4	44	WSW	6	o	1010·7	0	41	+5	W	7	*	b	6	–	45	36				
	La Hève	1017·3	41	SW	4	o	1016·2	*	41	+5	NW	4	*	o	5	1	45	36				
	Usbant	1021·2	48	NW	4	o	1021·2	*	41	-7	NW	5	*	c	4	–	50	41				
	Brest (St. Mathieu)	1021·6	47	W	3	o	1020·4	0	46	-3	WNW	4	*	c	3	1	50	45				
	Rochefort (Ile d'Aix)	1022·6	47	SSW	4	o	1023·3	0	46		NW	4	*	r	*	–	48	37				
	Biarritz	1025·1	50	WSW	2	f	1023·4	0	49	+8	WNW	1	*	f	1	8	54	41				
	Paris	1020·2	41	SSW	3	r	1016·4	0	41	+11	WSW	3	–	o	*	Trace	45	30				
	Belfort							*					*		*							
	Lyons	1026·0	37	–	0	b	1023·8	*	35	+10	–	0	*	c	*	–	43	25				
	Nice	1025·0	38	NE	1	b	1021·9	-3	35	0	–	0	*	o	2	–	50	32				
	Perpignan ..	1025·9	41	–	0	b	1023·8	0	41	+11	SW	1	NW	c	*	–	50	30				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1027·7	57	W	2	o	1028·0	0	52	+4	NNW	1	–	f	1	3	59	48				
	Madrid (8 a.m.)	1026·4	52	–	0	bc	1028·2	+4	43		–	0	NW	b	*	–	52	37				
	Lisbon (8 a.m.)	1025·0	59	NE	2	b	1024·6	0	48	+3	N	2	–	b	2	–	59	45				
	Gibraltar							*					*									
	Rome	1021·1	39	N	3	b	1019·8	+1	34	-5	N	2	N	b	*	–	50	34				
	Azores (Horta, 8 a.m.)		*				1016·3	+1	61	+1	SSW	5	*	r	5	Trace	63	59				
	Madeira (Funchal)	1022·6	63	E	3	o	1023·8	0	57	+2	E	3	N	o	2	–	66	55				

GALES.

Duration and Extreme Force in British Islands.

Malin Head.
27th 7p.m - 28th 7a.m WNW 8
Ex. WNW 10 @ 10p.m

Holyhead
27th 9p.m Ex. W 8.

Scilly.
28th 5a.m Squall NW 8

Dungeness
27th 9a.m - 2p.m SW 8

Dover
27th 9a.m Ex. SW 8

Spurn Head
28th 2a.m - 3a.m WSW 8

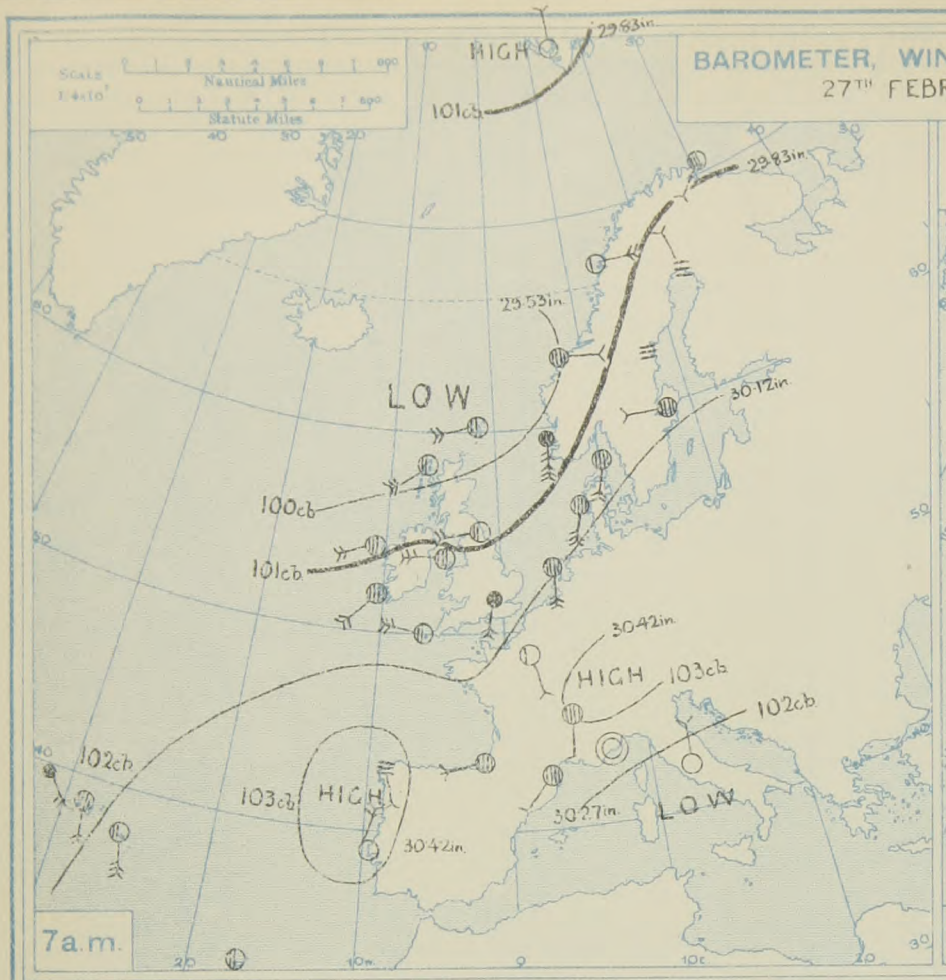
Southport
28th 1a.m - 7a.m W 8
Ex. Gusts 61 mph.

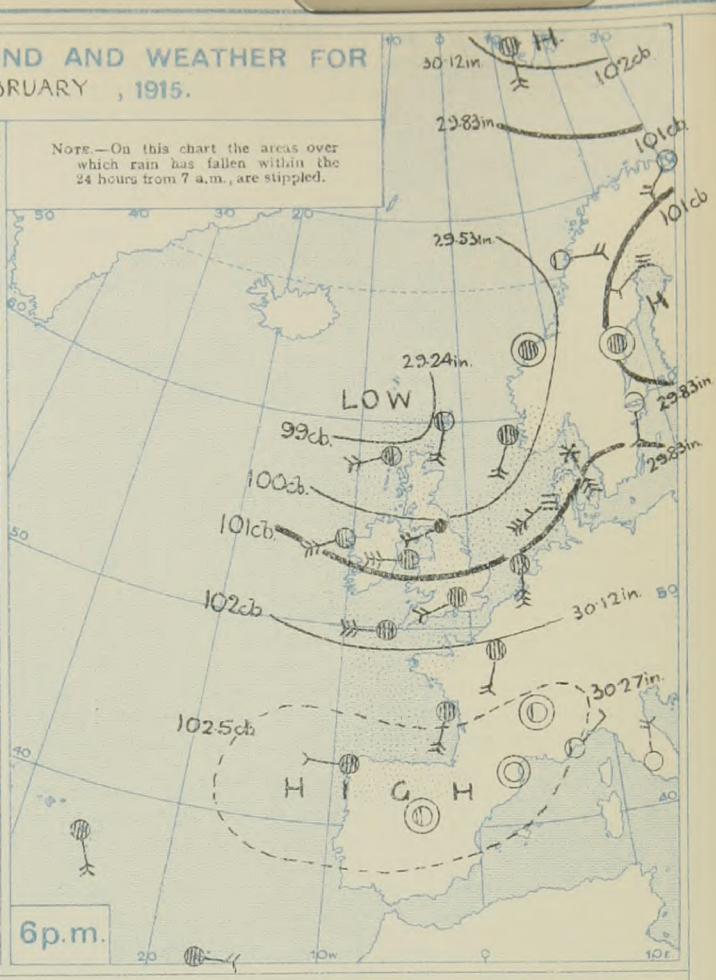
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

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

Scale 1·4 to 1° — 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

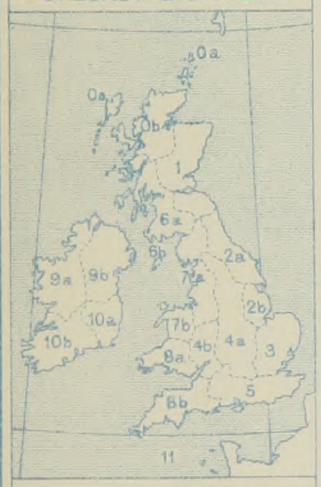
NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON 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.

0 {a b} 1 — Light or moderate Westerly winds, backing later; fair cold, sharp frost inland tonight.

2 {a b} 3 — Light or moderate Westerly and North-Westerly winds, fine generally; frost tonight.

4 {a b} 5 — Westerly winds, falling light, and backing later to the South-Westward; fair generally; frost inland tonight.

6 {a b} 7 {a b} 8 {a b} — Wind backing to the South-Westward or Southward; fair at first, some rain later; rather cold.

9 {a b} 10 {a b} 11 Western Channel and Bay — Fresh North-Westerly to Westerly or South-Westerly winds and a rather rough sea; fair at first, showery later; moderate temperature.

FURTHER OUTLOOK.

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

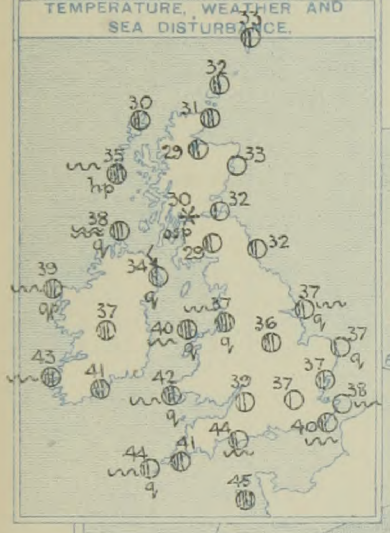
Millibs. 1050 1040 1030 1020 1010 1000 990 980 970 — Inches. 31 30 29

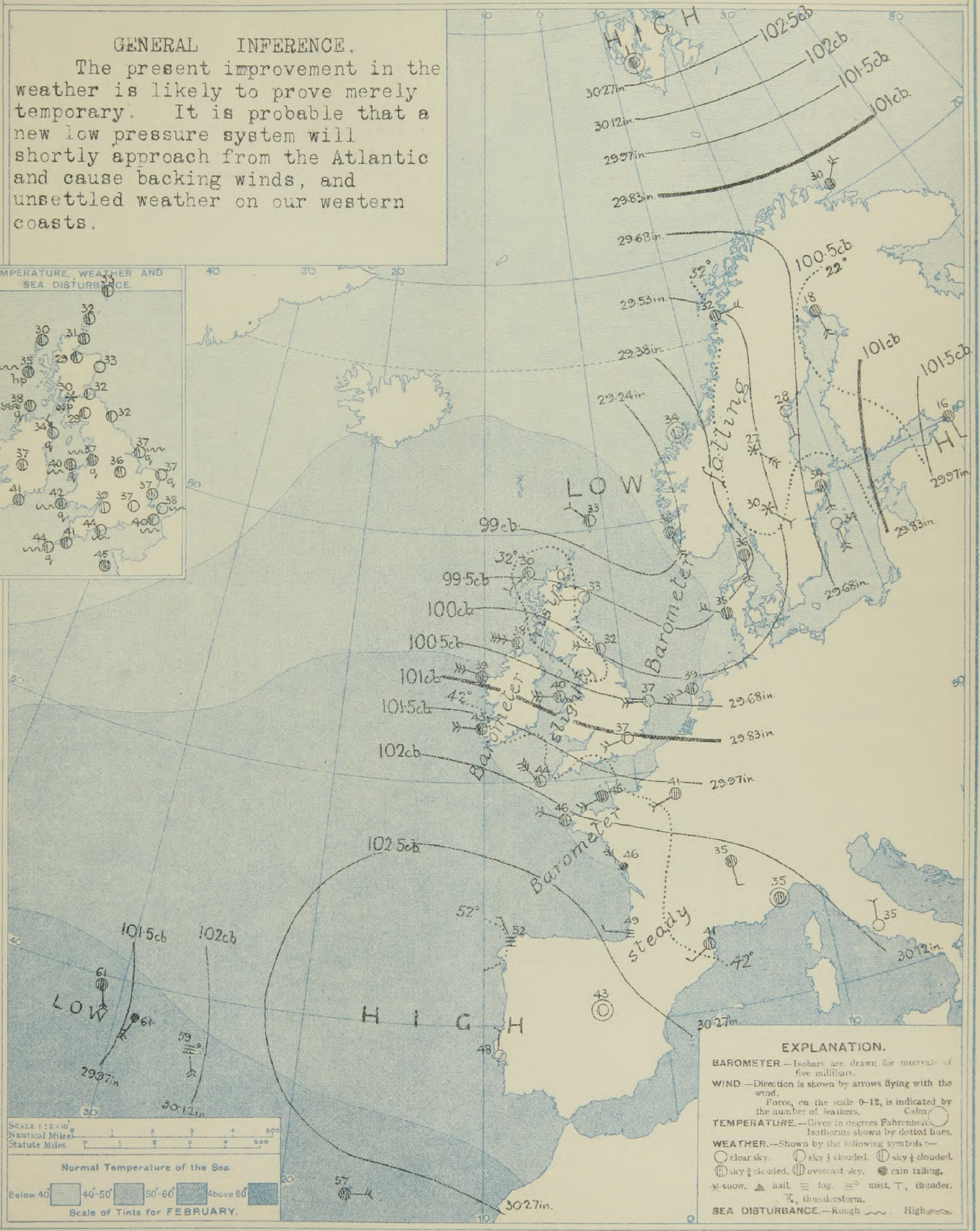
SYNOPTIC CHART FOR 7 a.m., SUNDAY, 28TH FEBRUARY, 1915.

GENERAL INFERENCE.

The present improvement in the weather is likely to prove merely temporary. It is probable that a new low pressure system will shortly approach from the Atlantic and cause backing winds, and unsettled weather on our western coasts.

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. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

DAILY WEATHER REPORT. Sunday, 28th February, 1915.

REPORTS FOR YESTERDAY.

27th February 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.
Nice	1023·8	39	-	0	bc	1026·4	+1	35	-2	-	0	-	b	2	-	52	30
Lisbon	1025·1	57	NNE	4	b	1025·2	+1	45	-5	NNE	4	-	b	4	-	67	45
Rome	1017·7	41	N	2	0	1017·3	+1	39	0	N	2	-	b	*	-	52	39
Hotta						1018·1	0	60	+1	SSE	4	*	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	1	41	33	b.bc	o.bc	3·9
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	3	44	36	c.bcp	c.bcp	3·9
Eng. N.E.	Scarborough	*					
Eng. N.E.	Skegness	3	46	37	o.c	o.c	2·4
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	3	43	40	bc	op	3·1
Eng. N.W.	Southport	7	45	38	c.bc.o	o.c.o	3·7
Midlands.	Buxton	11	43	34	bc	bcr	3·2
Midlands.	Leamington Spa	2	48	37	bc.c	bc.c	4·2
Midlands.	Malvern						
Midlands.	Ross-on-Wye	3	47	39	bc.o	cq.opq	2·4
Wales.	Rhyl	1	46	36	bc.c	cr.c	2·2
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	2	45	38	or.c	c.o.o	2·5
Wales.	Tenby	10	47	36	bc.o	b	2·4
Wales.	Swansea						
England. E.	Cromer	1	46	36	o.c	bc	1·6
England. E.	Lowestoft						
England. E.	Felixstowe	2	47	35	or	bc	1·4
England. E.	Walton-on-Naze	1	47	37	o.c	c.bc.o.c	1·7
England. E.	Southend-on-Sea	1	47	37	or.c	c.bc.c	1·5
England. S.E.	Tunbridge Wells	3	48	37	od	o	1·7
England. S.E.	Margate	0·3	48	37	cr	c	0·2
England. S.E.	Ramsgate	-	40	37	od.c	bc	0·5
England. S.E.	Folkestone	1	42	32	or.bc	bc.o	0·6
England. S.E.	Hastings	1	48	38	op.o	bc.c	1·2
England. S.E.	Bexhill-on-Sea	-	48	40	c	c.o	1·3
England. S.E.	Eastbourne	1	48	39	o	o.bc	2·4
England. S.E.	Seaford	1	45	39	r	c	1·9
England. S.E.	Brighton	3	46	33	or.og	c.bc.c	1·7
England. S.E.	Worthing	3	49	41	bc	bc.o	2·6
England. S.E.	Littlehampton	2	48	36	o	c.bc.bc.o	1·5
England. S.E.	Bognor	2	48	40	o.bc.b	bc.o	1·9
England. S.E.	Southsea						
England. S.E.	Bournemouth	2	50	36	o.c	c.o	3·0
England. S.W.	Weymouth	3	50	41	bc	bc.c	3·6
England. S.W.	Torquay	6	49	41	c	p.bc.c.o	3·8
England. S.W.	Paignton	7	51	41	bcp	bcp.bc	3·1
England. S.W.	Falmouth	12	49	41	c.bc	c.o	2·6
England. S.W.	Penzance	-	50	43	bc.c	c	3·2
England. S.W.	Newquay	5	48	41	c.bc	op	2·3
England. S.W.	Ilfracombe	4	48	40	op.c	bcp.bc	3·0
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. (24 hours ended 9 a.m. To-Day.) °F.	Temperature. In Screen. Min. (24 hours ended 9 a.m. To-Day.) °F.	Temperature. Min. on Grass. (24 hours ended 9 a.m. To-Day.) °F.	Rainfall. (24 hours ended 9 a.m. To-Day.) mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.)	62	72	2·0	48	37	31	-	bcp	bcp	b
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	71	78	1·4	51	36	30	-	b.o.bc	bc	bc.b.o.b
Camden Sq. (Brit. Rainfall)	66	72	2·1	49	35	28	-	o.bc	bc	*
Hampstead (Reservoir)	*	69	1·9	47	33	23	-	c.bc	bco	b
Richmond Park	*	*	2·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	72	1·3							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
434 Joules	11·3 Milliwatts.	44 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.	5	44	36	33	r.c.b	cq	p.cq.b	*
Darwen to 9 p.m.	17	42	33	32	ors.c	bc.dp	bcpfl	2·8
Manchester ,,	5	45	37	*	or.c	c.o	or	1·3
Birmingham ,,	3	46	35	35	*	c	c	2·6
Oxford to 9 p.m.	*	46	39	37	o.or	o.c.o	c.o.or	*
Teignmouth to 9pm.	4	51	41	39	or.c	c.bc	bc	3·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	49	39	36	c.b	b	c.b	*

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

28th Feb & 1st Mar 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·45 / 6·43	12·6 / 12·6	5·27 / 5·29
Greenwich	6·51 / 6·49	12·13 / 12·13	5·35 / 5·37
Wick	7·14 / 7·11	12·25 / 12·25	5·36 / 5·39
Valencia	7·33 / 7·31	12·54 / 12·54	6·16 / 6·17

NOTES ON YESTERDAY'S WEATHER.

Over the northern districts the thermometer failed to reach 45°, and in the west of Scotland it did not touch 40°. Showers fell generally (snow in the north), and a gale from between S.W. and N.W. prevailed on several parts of the English and Irish 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.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

FEBRUARY, 1915.

Corrections and additions for the month of February 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.					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 0-3.	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.
2	Belfort	1023.9	32	-	0	f	1026.9	*	31	+1	ENE.	3	*	f	*	2	33	30	.	.	.	.
	Nice	1017.9	37	E	1	b	1021.7	*	37	+5	E	1	*	b	1	-	48	30	.	.	.	.
	Madrid	1026.1	42	W	1	bc	1031.5	+1	29	+1	-	0	-	b	*	-	43	26	.	.	.	.
	Rome	1012.8	39	N	1	o	1013.5	+1	37	+9	N	5	-	bc	*	2	46	28	.	.	.	.
3	Petrograd	1018.4	1	WNW		s	1017.9	+	5	-23	E	1	-	b	*	2	28	-2	.	.	.	.
	Nice	1024.3	40	-	0	b	1027.3	*	37	0	NE	1	-	c	1	-	52	36	.	.	.	.
4	Stornoway	978.4	50	S	8	odq.	979.8	+3	47	+5	S	8	S	cq	7	9	52	40	od.vq	odq	o.cpq.	0.0
	Castlebay	977.2	50	SE	8	op	981.4	+4	47	+2	S	8	-	o	7	3	51	45	opq	opq.op	op.c.o	0.0
	Belfort	1024.8	46	-	0	m	1023.8	*	30	-4	E	2	-	b	*	?	48	29	.	.	.	.
5	Castlebay	996.2	47	S	5	op	998.6	+1	44	0	S	6	S	bc	6	0.4	48	44	op	c.op	op.bc	0.5
6	Castlebay.	993.0	47	E	6	op	994.8	+2	45	+1	E	5	-	o	5	2	47	43	bc.o.c	c.op	opq.o	2.0
	Petrograd	1045.5	12	E	2	b	1049.6	-	3	-7	E	3	-	b	*	-	14	3	.	.	.	.
	Ushant	994.3	50	W	8	r	999.7	*	50	+1	W	4	*	c	7	14	54	46	.	.	.	.
	Belfort	1019.7	37	ENE	2	m	1017.9	*	23	-5	E	2	*	m	*	-	48	23	.	.	.	.
	Lyons	1019.7	43	SSW	2	b	1014.3	*	45	+5	SSW	4	-	o	*	-	53	39	.	.	.	.
	Nice	1021.6	45	E	1	o	1019.3	-	42		-	0	-	o	2	-	52	41	.	.	.	.
	Madrid	1023.4	43	W	2	o	1021.2	+4	41	+7	SW	1	-	m	*	3	45	34	.	.	.	.
7	Castlebay	1002.6	44	ESE	4	op	998.0	-6	42	-3	SE	6	-	o	6	1	45	41	op	op	op	0.0
	Biarritz	1021.1	52	W	4	o	1023.1	*	47	-2	S	2	-	b	5	2	52	45	.	.	.	.
8	Castlebay	987.8	42	SE	6	op	990.1	+1	40	-2	WSW	3	W	bc	3	10	45	38	or	r.op	bcp.bc	0.0
	Belfort	1022.1	40	WSW	4	c	1020.7	*	41	+7	WNW	5	*	r	*	3	45	34	.	.	.	.
	Madrid	1025.6	48	SW	3	bc	1026.6	0	41	+7	-	0	-	m	*	1	50	34	.	.	.	.
	Horta	1034.9	48	WSW	2	b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9	Castlebay	988.5	40	S	5	op	989.8	0	39	-1	E	3	-	o	4	3	43	37	bc.o.bc	cr.op	ohp.c.o	2.7
	Belfort	1023.0	37	-	0	m	1015.1	*	34	-7	NE	2	+	f	*	1	41	28	.	.	.	.
10	Castlebay	986.6	41	E	3	c	989.0	+2	39	0	E	4	-	o	4	3	42	36	o	o.c	bc.op	0.0
	Petrograd	1036.2	12	SSE	3	b	1034.1	-	10	+1	SSE	1	-	b	*	-	19	9	.	.	.	.
	C. Gris Nez.	998.4	41	S	4	c	1001.1	-	37	-6	S	4	*	b	3	3	46	36	.	.	.	.
	Ushant	999.9	44	W	6	c	997.3	*	41	-4	SSW	5	+	c	5	2	46	39	.	.	.	.
	Belfort	1008.8	36	ENE	4	m	1002.9	*	34	0	-	0	*	f	*	2	39	33	.	.	.	.
	Lyons	1006.1	45	SSW	3	o	1005.0	*	33	-4	-	0	-	o	*	25	48	31	.	.	.	.
	Nice	1012.0	41	ENE	2	p	1003.7	*	42	+1	-	0	-	r	4	38	43	39	.	.	.	.
	Madrid	1013.7	41	W	2	o	1011.8	-1	34	-2	SSE	4	-	c	*	-	41	32	.	.	.	.
11	Castlebay	997.3	42	E	4	o	1002.5	+2	42	+3	E	3	E	bcm	3	5	43	35	oprs.o	o	o.bcm	0.2
	Petrograd	1032.8	10	SSE	2	b	1029.7	-	5	-5	SSE	1	-	o	*	-	19	5	.	.	.	.
	Lyons	1007.0	34	S	1	o	1008.8	*	27	-6	W	2	«	f	*	2	41	24	.	.	.	.
	Sanguinaire	1006.6	48	W	4	m	1003.4	*	46	-4	E	3	*	r	4	12	50	41	.	.	.	.
12	Castlebay.	1000.8	42	E	2	bm	999.4	-3	38	-4	-	0	-	bc	1	-	45	36	bc.bm	bm	bm.bc	7.4
	Petrograd	1026.6	7	SSE	1	b	1021.0	-	12	+7	S	2	-	o	*	-	12	5	.	.	.	.
	Ushant	998.6	46	NW	4	c	997.2	*	46	+1	NW	4	*	o	3	-	50	39	.	.	.	.
	Belfort	1005.2	36	ENE	2	o	1005.6	*	30	+2	W	2	-	c	*	-	41	29	.	.	.	.
	Lyons	1005.7	30	NW	1	o	1006.0	*	26	-1	SSW	1	-	f	*	-	36	24	.	.	.	.
	Sanguinaire	1003.9	50	SE	4	o	1003.9	*	49	+3	NW	2	*	o	4	-	55	43	.	.	.	.
	Madrid	1009.1	43	NW	3	b	1012.2	0	36	+2	WSW	1	-	o	*	-	43	34	.	.	.	.
13	Castlebay	989.7	37	NE	2	c	984.8	0	39	+1	ESE	4	E	o	4	2	42	36	bc.o	o.c.o	bc.op.o	1.1
	Petrograd	1012.1	23	S	1	o	1016.3	-	23	+11	E	1	-	o	*	-	23	12	.	.	.	.
	Lyons	1005.9	39	SSW	3	o	1003.5	*	42	+16	S	5	-	o	*	-	43	26	.	.	.	.
14	Castlebay.	985.2	41	E	3	o	983.4	+4	40	+1	NE	3	-	b	3	-	42	38	o.cm	cm.c	o.c.b	2.4
	C. Gris Nez	978.4	46	S	6	b	976.4	-	42	+8	SW	8	-	r	8	8	48	36	.	.	.	.
	Ushant	982.6	50	NW	9	c	980.6	*	48	0	NW	7	-	o	7	5	50	45	.	.	.	.
	Belfort	998.0	44	SW	6	o	999.9	*	36	0	-	0	-	o	*	2	47	35	.	.	.	.
	Lyons	1001.5	45	SSW	5	o	1001.2	*	41	0	S	2	-	o	*	1	47	39	.	.	.	.
	Madrid	1008.0	48	WSW	4	o	1014.7	+5	39	-6	W	1	-	b	*	6	50	36	.	.	.	.
15	Castlebay	999.4	42	N	3	bc	1002.7	+4	39	-3	N	3	N	bc	3	-	44	37	bq	bq.bc	bc	6.2
	Lyons.	1002.1	43	SW	4	o	1007.4	*	37	-4	SSW	2	*	o	*	-	48	?	.	.	.	.
16	Castlebay.	1013.6	42	N	2	o	1014.4	0	41	+2	ESE	3	-	b	3	-	44	37	c	bc.o	o.c.b	3.0
	Ushant	1015.9	48	N	3	c	1019.9	*	45	-	S	3	-	o	3	-	50	39	.	.	.	.
	Belfort	1012.2	34	WSW	4	o	1022.7	*	31	-5	WSW	4	-	s	*	1	37	30	.	.	.	.
	Lyons	1014.1	39	-	0	o	1022.1	*	33	-4	-	0	-	o	*	-	49	31	.	.	.	.
	Madrid	1021.2	48	W	1	c	1025.0	+2	36	-1	-	0	-	b	*	-	48	32	.	.	.	.
	Rome	1012.4	50	SE	1	r	1010.3	-	46	+9	WSW	1	-	r	*	5	55	46	.	.	.	.
17	Spitzbergen	1017.9	-29	-	0	b	1017.5	*	-29	-5	-	0	-	b	*	*	-	-	.	.	.	.
	Vardö	1002.0	19	N	5	c	998.7	*	18	-1	SW	5	-	s	4	*	-	-	.	.	.	.
	Rome.	1011.3	46	N	2	b	1015.7	-3	46	0	N	3	-	b	*	1	50	45	.	.	.	.

REPORTS FOR FEBRUARY, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars a. 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.
18	Petrograd.	1020.3	5	–	0	b	1018.3	–	12	−2	SW	1	–	b	*	?	14	−2	.	.	.	.
	Biarritz	1013.1	57	SSW	4	o	1002.1	–	47	−1	E	2	*	o	3	1	61	46	.	.	.	.
	Belfort	1017.5	36	E	2	m	1013.0	*	37	+10	–	0	*	o	+	–	42	27	.	.	.	.
	Lyons.	1017.1	48	SSW	5	o	1012.8	*	46	.	S	4	–	o	*	–	52	42	.	.	.	.
	Madrid	1020.3	52	SW	2	c	1016.3	o	39	+5	S	1	–	o	*	1	52	34	.	.	.	.
19	Stornoway	975.5	42	SE	4	c	975.4	o	33	−7	N	1	–	bcq	1	2	44	32	or.oq	o.cq.b	b bcq	0.7
	Biarritz	1005.5	55	SW	4	c	1001.9	–	48	+1	SSW	4	–	o	6	2	57	46	.	.	.	.
	Belfort	1006.3	45	W	4	o	1002.7	*	39	+2	–	0	–	o	*	1	50	37	.	.	.	.
	Lyons	1007.1	49	SSW	5	o	1004.3	*	37	−9	S	1	–	o	*	1	53	36	.	.	.	.
20	Petrograd.	1004.6	23	SSE	1	s	1002.1	–	27	+4	SSE	1	–	S	*	1	27	23				
	Ushant	990.6	50	NW	3	c	990.6	*	45	−3	NW	3	*	b	1	2	52	34				
	Biarritz	996.0	53	SSW	1	o	990.9	+	49	+1	NW	9	*	o	8	10	54	45				
	Belfort	996.6	44	SW	3	c	989.5	*	36	−3	ENE	2	+	o	+	1	46	34				
	Madrid	1007.8	45	WSW	3	o	1005.3	+4	41	0	W	2	+	o	+	8	50	41				
21	Ushant	987.9	48	SW	5	bc	994.6	*	46	−1	N	3	*	c	5	3	48	41				
	Belfort	988.8	36	WSW	2	f	996.0	*	36	0	W	4	+	o	*	2	45	33				
	Lyons	991.7	37	–	0	r	998.1	*	34	−4	–	0	*	bc	+	3	40	32				
	Nice	986.3	43	W	2	b	991.3	–	43	+6	E	4	*	b	6	7	46	37				
22	Ushant	991.9	48	W	4	c	990.6	*	46	0	N	4	*	o	4	–	52	43				
	Belfort	998.9	37	–	0	c	993.5	*	32	−4	ENE	3	–	o	≈	2	41	30				
	Lyons	999.0	43	SSW	2	o	987.8	*	30	−4	S	2	+	r	*	1	48	30				
	Sanguinaire	997.7	49	W	7	o	994.0	*	49	–	S	3	*	m	3	1	57	39				
	Madrid	1010.4	41	WSW	2	r	1004.4	+12	45	+8	W	4	–	bc	*	3	46	37				
23	Biarritz	1001.3	50	WNW	6	r	1010.1	–	43	−9	W	7	*	tlr	7	7	61	43				
	Perpignan	997.2	48	NW	6	o	1005.9	+5	41	+2	NW	5	–	r	*	2	59	37				
24	Ushant	1013.2	43	NNW	6	c	1020.0	*	41	−2	NNE	6	+	o	4	–	46	37				
	Belfort	1006.1	33	W	3	m	1012.0	*	30	−2	WSW	5	*	o	*	4	39	30				
	Nice	995.0	42	N	6	bc	1001.9	.	40	−2	E	4	+	c	5	–	48	37				
	Corunna	1021.5	48	W	6	o	1024.4	+2	43	−3	S	2	–	o	4	11	52	41				
25	Petrograd	998.9	32	NW	1	o	998.4	–	30	0	W	1	–	o	*	2	34	28				
	Madrid	1021.3	48	NW	1	b	1024.1	o	36	−1	N	1	–	o	*	–	50	34				
	Horta	1019.8	61	SW	5	c	.	.	.	.	.	.	.	.	.	.	.	.				
26	Belfort	1026.9	30	ENE	3	s	1033.1	*	19	−7	–	0	*	f	*	3	36	18				
	Lyons	1025.6	32	NNW	3	s	1030.6	*	28	−3	–	0	–	b	*	1	37	27	.	.	.	.
	Madrid	1023.0	36	–	0	o	1030.4	+4	30	−6	–	0	–	b	*	4	37	27	.	.	.	.
27	Petrograd.	1016.3	23	W	1	s	1018.9	–	23	0	W	1	–	S	+	–	25	19	.	.	.	.
	Madrid	1027.8	46	–	0	b	1030.7	+2	34	+4	–	0	–	bc	*	–	46	30	.	.	.	.
	Horta.	1018.9	61	E	5	c	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
28	Horta.	1013.2	59	SSE	5	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

GALES.

Duration and Extreme Force in British Islands.

Additions.

2nd 7am. Falmouth – Gale night.

Castlebay.
3rd 3pm – 4th 7am. S.8

Stornoway.
3rd 6pm & 4th 7am. S.8; squalls during night & morning. force 9

Donaghadee.
3rd 7pm – 2am. SSW 9 at 10pm.

Stornoway.
4th 1pm. S.8

Castlebay.
4th 7am – 10am S.8.

Aberdeen.
6th 7am. SE 9 in gusts.

Corrections.

Malin Head.
6th 7pm – 7th 3am. SE 8.

Blacksod Point.
22nd 5am – 8am. NNE 9.

Corrections.

1	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.8
2	Dover	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.7
	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	.	.	.	.	.	.
3	Eskdalemuir	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o.c.bc.o	.	.	.
	Roche's Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	bcq.orm	.	.	.
4	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	oq.p.o	.	.	.
	Eskdalemuir	.	.	.	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Scilly	.	.	.	.	.	999.8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	London (Kew Obsy)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	44	.	.	.	.
5	Deerness	998.7	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.
	Malin Head	.	.	.	.	.	.	.	.	S	.	.	.	.	.	.	.	.	.	.	.	.
	Roche's Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	p.c	.	.	.
	Tynemouth	.	47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6	Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.	8	.	.	.	.	.	.
	Leith	.	.	.	.	.	.	.	.	.	.	.	.	o	1	.	.	.	.	.	.	.
7	Aberdeen	.	.	.	.	.	.	.	.	SE	.	.	.	.	.	.	.	.	.	.	.	.
9	Stornoway	.	.	.	.	bcp	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Roche's Point	.	.	.	.	.	.	.	.	WSW	.	.	.	.	.	.	.	.	bc	.	.	.
	Leith	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Tynemouth	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	.	.	.	.
11	Roche's Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	bc.op	op.c	.	.
	Wick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.4	.	.	.	.	.	.

—CORRECTIONS.

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.
11	Nottingham						1002.4															
12	Valencia																					5.5
	Dungeness					bc																
	Wisby																34					
13	Portland Bill															7						
	Nairn																	30				
	Tynemouth						983.8															
14	Aberdeen																				oq rsp	
	Clacton-on-Sea			SSW																		
15	Lerwick								36	−1												
	Eskdalemuir																			csp		
	Roche's Point	1000.3																				
	Dover																42					
	Spurn Head	986.9																				
16	Lerwick																39					
	Glasgow						1017.1															
	Blacksod Point	1016.0																				
17	Valencia																					0.0
	Dover																	32				
18	Stornoway	975.9																				
19	Dover				7													27				
	Nairn																	32				
20	Blacksod Point																	34				
	Roche's Point																					
	Portland Bill						986.8															
21	Castlebay							−1										32				
	Blacksod Point																		cp			
	Roche's Point																				bch	
	Pembroke																					
	Dover										NW											
	Clacton-on-Sea	988.7																				
23	Portland Bill			NNW																		
24	Deerness						1017.6															
	Aberdeen														3							
25	Lerwick																	27				
	Glasgow																				cp bc b	
	Pembroke																					9.5
	Dungeness																	27				
27	Wick										SW											
28	Deerness																					3.4
	Castlebay	995.1																				
	Falmouth										WSW											
	Stockholm	1015.1																				
	Wisby	1018.3																				

Corrections to London Observations entered on Page 4. (taken at 9am.)

																			Min. on Grass			
12	Hampstead.																	?29.				
14	do.																9		31			
15	do.																		21			
17	do.																		32			
18	do.																		33			
25	Westminster																					3.0
"	Richmond Park																					3.4
27	Hampstead																	29				
"	Richmond Park																					5.6