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M.O. Form 2610.

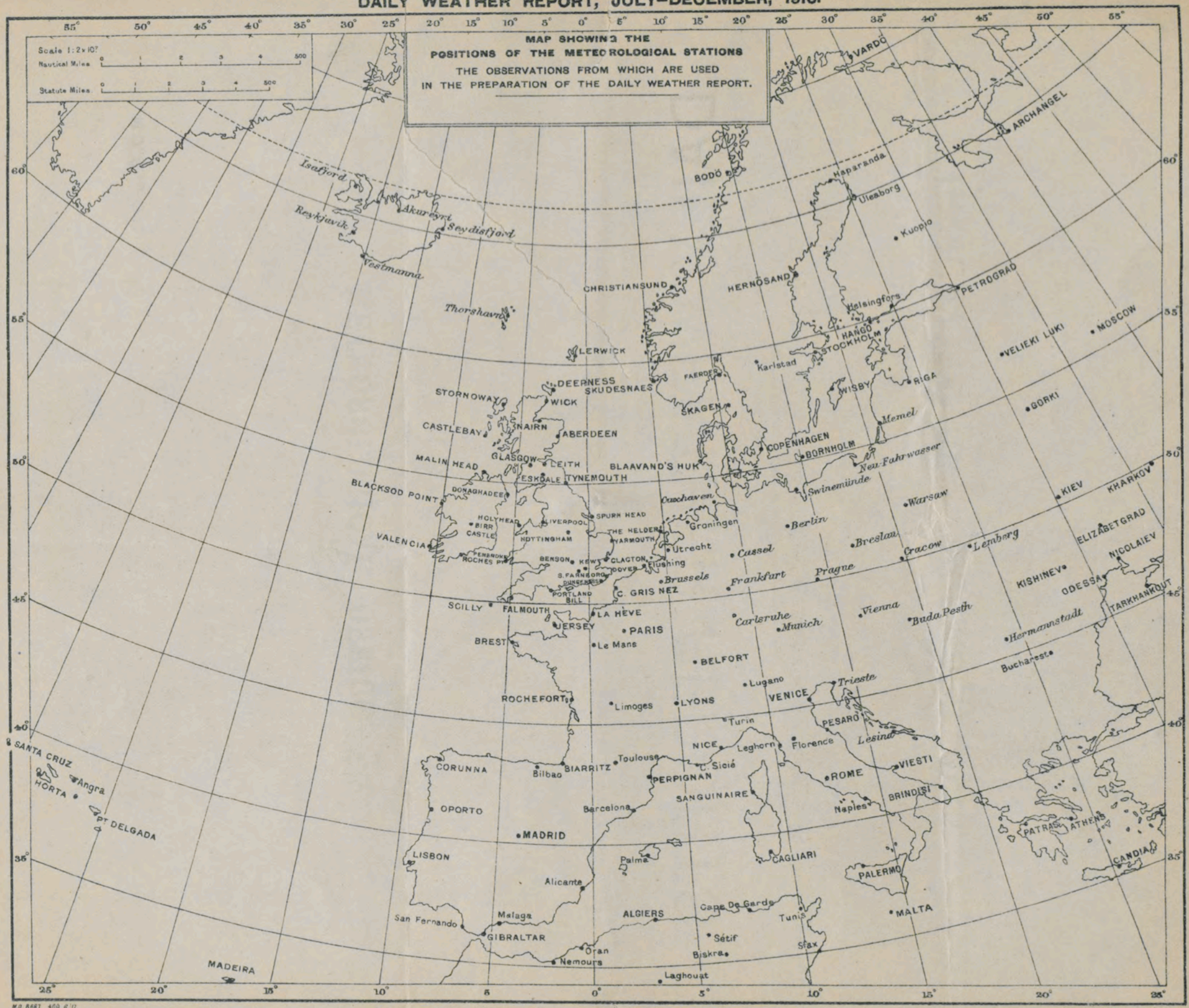
METEOROLOGICAL OFFICE.

LONDON

DAILY WEATHER REPORTS

1st JULY TO 31st DECEMBER, 1916.

DAILY WEATHER REPORT, JULY–DECEMBER, 1916.



Receipt of information from Stations shown in italics is temporarily suspended.

M.O. 866T 400 6/17.

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DAILY WEATHER REPORT. APPENDIX I.

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

FOURTH QUARTER, OCTOBER TO DECEMBER.

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

	STATIONS.	PRESSURE 1906–1915.	AIR TEMPERATURE. Means of		Absolute Extremes. 1881–1915.				RAINFALL 1881–1915.			BRIGHT SUNSHINE. 1881–1915.	
		7 a.m. Observations (reduced to M.S. Level).	1906–1915. Dry Bulb 7 a.m.	1881–1915. Daily Maximum.	1881–1915. Daily Minimum.	Maximum. Temp.	Maximum. Year.	Minimum. Temp.	Minimum. Year.	Days with Rain.	Total Fall.		Daily Mean.	Per Centage of Possible Duration.
		mb.	°F.	°F.	°F.	°F.		°F.			mm.	in.	hr.	%
OCTOBER.	Lerwick	1011·2	47·3	50·1	42·3	63	1908	28	1887	24	100	3·95	—	—
	Stornoway	1010·0	47·1	52·2	41·2	70	1898	27	1892	23	132	5·18	2·77	28
	Castlebay (Barra Isd.)	[1011·6]§	[50·5]§	[53·6]§	[47·7]§	[63]§	[1908]§	[34]§	[1909, 1913]§	[20]§	[86]§	[3·39]§	[2·55]§	[25]§
	Eskdalemuir	[1014·4]¶	[42·4]¶	[51·5]‖	[38·5]‖	[65]‖	[1910]‖	[19]‖	[1911]‖	[15]‖	[100]‖	[3·93]‖	[2·39]‖	[23]‖
	Malin Head	1009·3	49·3	[53·2]*	[45·6]*	[73]*	[1908]*	[32]*	[1892]*	[20]*	[75]*	[2·95]*	—	—
	Blacksod Point	1009·4	51·0	[54·7]*	[46·0]*	[71]*	[1908]*	[29]*	[1905]*	[23]*	[127]*	[4·99]*	—	—
	Valencia	1010·2	51·2	56·4	46·6	71	1908	28	1892	22	142	5·57	3·26	31
	Roche's Point	1011·2	51·0	56·2	46·4	65	1884, 86, 1914, 15	32	1881	19	104	4·09	—	—
	Birr Castle	1010·7	46·8	55·0	40·7	74	1908	22	1905	18	74	2·91	3·16	30
	Donaghadee	1011·3	49·2	54·3	44·3	66	1898	21	1892	18	73	2·88	—	—
	Liverpool (Observatory)	1012·5	47·9	54·1	44·8	73	1908	27	1895	18	83	3·27	[2·81]§	[27]§
	Holyhead	1011·5	51·3	55·1	46·9	75	1908	32	1892	19	101	3·99	[2·87]**	[28]**
	Pembroke (St.Ann's Hd.)	1011·4	51·6	55·6	48·1	67	1908	33	1895	19	106	4·19	3·29	31
	Scilly (St. Mary's)	1011·3	53·2	57·5	50·1	69	1895	38	1895, 1896	21	93	3·66	3·81	36
	Falmouth	1012·5	51·0	56·3	47·7	67	1895	33	1895	21	126	4·96	3·74	35
	Jersey (St. Aubin's)	1013·3	53·4	59·0	49·1	76	1908	33	1887	20	116	4·55	4·06	38
	Portland Bill	1012·2	53·8	56·9	48·8	[67]†	[1908]†	[35]†	[1905, 1908]†	17	94	3·68	—	—
	Dungeness	1013·2	52·1	57·4	46·0	70	1886, 1908	23	1890	17	89	3·52	—	—
	Dover	[1015·5]§	[50·7]§	[57·5]§	[46·6]§	[74]§	[1908]§	[30]§	[1909]§	[18]§	[106]§	[4·18]§	[3·81]§	[36]§
	Wick	1011·0	47·0	52·2	41·0	73	1898	22	1885	21	75	2·96	—	—
	Nairn	1010·9	44·2	53·1	39·0	76	1908	19	1896	19	60	2·35	[3·29]‡	[33]‡
	Aberdeen	1012·2	46·6	52·8	41·7	74	1883	25	1880	20	76	3·00	3·06	30
	Leith	1011·9	47·7	54·8	42·1	75	1908	25	1894	17	61	2·41	—	—
	Tynemouth	1012·6	47·9	54·1	42·4	77	1908	27	1890, 92, 95, 1909	17	76	3·01	—	—
	Spurn Head	1012·8	50·7	54·6	45·9	70	1900	33	1887, 1895	17	61	2·40	[2·68]**	[26]**
	Yarmouth	1013·6	50·6	55·2	45·3	74	1900, 1908	27	1895	18	74	2·93	[3·35]§	[32]§
	Clacton-on-Sea	1013·7	51·0	55·7	45·7	[71]‡	[1908]‡	[29]‡	[1905]‡	14	49	1·91	3·61	35
	Nottingham	1013·3	46·6	55·3	41·7	78	1908	20	1850	19	63	2·49	2·68	26
	LONDON (Kew Obsy.)	1013·9	48·5	56·2	43·5	77	1886	25	1881, 1895	17	69	2·70	2·97	28
NOVEMBER.	Lerwick	1005·3	42·3	46·2	38·9	58	1901	24	1912	25	108	4·25	—	—
	Stornoway	1007·2	42·1	47·6	38·0	58	1897, 1901, 02	21	1912	24	148	5·83	1·43	19
	Castlebay (Barra Isd.)	[1007·8]§	[45·4	[48·5]§	41·6]§	56]§	[1914]§	[28]§	[1912]§	[24]§	[101]§	[3·96]§	[1·57]§	[20]§
	Eskdalemuir	[1009·4]¶	[37·6]¶	[43·2]‖	32·1]‖	54]‖	[1914]‖	[6]‖	[1912]‖	[20]‖	154]‖	[6·05]‖	[2·03]‖	[25]‖
	Malin Head	1008·4	44·6	[48·6]*	41·7]*	59]*	[1894, 99, 1906]*	[30]*	[1909, 1912]*	[21]*	[83]*	[3·28]*	—	—
	Blacksod Point	1010·3	46·1	[50·2]*	42·0]*	60]*	[1897, 1899]*	[26]*	[1890]*	[24]*	[132]*	[5·21]*	—	—
	Valencia	1012·4	46·3	52·0	42·9	63	1881	27	1890, 96, 1901	23	139	5·46	2·17	25
	Roche's Point	1013·0	45·5	51·4	42·5	61	1908, 1909	27	1890	19	107	4·20	—	—
	Birr Castle	1011·8	40·6	49·3	36·8	64	1912	17	1909	19	79	3·10	2·13	25
	Donaghadee	1010·4	43·7	49·4	40·1	60	1894, 1909	27	1883	19	77	3·04	—	—
	Liverpool (Observatory)	1011·6	42·5	48·5	40·2	61	1894, 95, 99	25	1901, 05, 15	18	64	2·50	[2·27]§	[27]§
	Holyhead	1011·3	46·3	50·2	42·9	62	1881	29	1915	19	105	4·14	[2·50]**	[30]**
	Pembroke (St.Ann's Hd.)	1012·2	46·7	51·1	43·9	60	1911	28	1890	20	97	3·80	2·17	25
	Scilly (St. Mary's)	1013·2	48·7	53·2	46·3	61	1898	29	1890	20	83	3·27	2·50	28
	Falmouth	1013·9	46·1	51·6	43·9	60	1895, 1897	23	1890	20	122	4·80	2·53	29
	Jersey (St. Aubin's)	1014·2	47·9	53·0	44·3	66	1899	16	1890	21	104	4·08	2·53	28
	Portland Bill	1012·7	47·7	51·7	44·3	[61]†	[1900]†	[29]†	[1912]†	14	66	2·58	—	—
	Dungeness	1012·2	44·4	50·7	40·7	63	1899	17	1890	16	70	2·75	—	—
	Dover	[1012·9]§	[42·7 §	[48·9]	[38·6]§	[60]§	[1914]§	[25]§	[1911]§	[16]§	[78]§	[3·07]§	[2·90]§	[33]§
	Wick	1006·6	41·5	46·9	37·0	62	1900	12	1909	20	80	3·14	—	—
	Nairn	1007·5	39·8	46·9	35·4	62	1906	12	1904	19	60	2·36	[1·70]‡	[22]‡
	Aberdeen	1008·3	40·7	46·8	37·4	62	1889	14	1909	19	75	2·95	1·83	23
	Leith	1009·0	42·0	48·5	38·0	63	1885	18	1885	15	50	1·95	—	—
	Tynemouth	1009·9	41·8	48·4	38·1	62	1894	20	1912	16	54	2·13	—	—
	Spurn Head	1010·4	43·8	48·2	40·8	61	1894, 1895	28	1884	16	47	1·85	[1·90]**	[23]**
	Yarmouth	1011·6	43·3	48·5	39·6	60	1895, 98, 99, 1904	23	1890	18	61	2·41	[2·33]§	[27]§
	Clacton-on-Sea	1012·4	43·0	48·5	39·7	[60]‡	[1908]‡	[25]‡	[1904]‡	15	47	1·86	2·33	27
	Nottingham	1011·9	40·7	48·4	37·1	63	1895	13	1904	19	48	1·88	1·37	16
	LONDON (Kew Obsy.)	1013·2	41·9	49·1	38·8	62	1881, 94, 95	21	1901	16	56	2·22	1·73	20
DECEMBER.	Lerwick	1000·9	40·4	43·6	36·6	53	1890, 1905	19	1909	27	122	4·79	—	—
	Stornoway	1000·9	40·3	44·4	35·4	55	1898, 1913	16	1912	26	159	6·25	0·74	12
	Castlebay (Barra Isd.)	[1000·5]§	[44·1]§	[46·9]§	[40·1]§	[54]§	[1912]§	[26]§	[1912]§	[26]§	[146]§	[5·74]§	[0·77]§	[12]§
	Eskdalemuir	[1003·9]¶	[36·7]¶	[42·1]‖	[33·0]‖	[52]‖	[1910, 12]‖	[8]‖	[1912]‖	[26]‖	[204]‖	[8·04]‖	[0·74]‖	[11]‖
	Malin Head	1001·6	42·3	[45·7]*	[38·6]*	[55]*	[1900, 04, 13]*	[28]*	[1906, 1909]*	[24]*	[85]*	[3·35]*	—	—
	Blacksod Point	1003·0	44·4	[47·5]*	[39·9]*	[59]*	[1899]*	[25]*	[1906]*	[26]*	[155]*	[6·12]*	—	—
	Valencia	1005·8	45·4	49·8	41·1	57	1884, 88, 99, 1900	24	1886	26	169	6·64	1·32	17
	Roche's Point	1006·9	44·5	48·8	40·4	57	1906	25	1882	23	135	5·32	—	—
	Birr Castle	1005·2	40·5	46·1	35·0	58	1900	10	1882	21	84	3·29	1·39	19
	Donaghadee	1004·4	41·8	45·9	37·2	56	1885, 88, 94, 1909, 12, 13	21	1909	21	81	3·17	—	—
	Liverpool (Observatory)	1006·7	41·2	44·8	36·8	59	1891, 98, 1900	17	1882, 1890	19	67	2·65	[1·39]§	[19]§
	Holyhead	1005·8	44·5	46·9	39·9	56	1888	26	1890, 1902	20	106	4·16	[1·77]**	[24]**
	Pembroke (St.Ann's Hd.)	1006·9	45·5	48·1	41·3	57	1899, 1902	19	1890	22	115	4·52	1·35	18
	Scilly (St. Mary's)	1008·6	47·6	50·7	44·0	58	1899, 1900	30	1890	23	111	4·36	1·81	23
	Falmouth	1009·5	45·5	48·8	41·6	57	1899	25	1886, 1890	23	159	6·27	1·77	22
	Jersey (St. Aubin's)	1011·5	46·2	48·8	41·1	59	1898	22	1890	22	105	4·15	1·87	23
	Portland Bill	1009·1	46·5	48·1	41·2	[56]†	[1906, 07, 13]†	[24]†	[1908]†	19	75	2·94	—	—
	Dungeness	1009·5	43·2	46·2	37·1	56	1897, 98, 1900, 07	12	1890	17	70	2·77	—	—
	Dover	[1010·2]§	[42·4]§	[46·7]§	[38·4]§	[54]§	[1912, 14, 15]§	[18]§	[1908]§	[21]§	[105]§	[4·12]§	[1·45]§	[19]§
	Wick	1001·3	39·3	43·6	34·3	58	1906, 1907	10	1906	22	78	3·08	—	—
	Nairn	1001·9	37·4	43·0	32·1	58	1900	8	1912	19	56	2·22	[1·16]‡	[18]‡
	Aberdeen	1003·3	38·5	42·9	34·2	57	1885, 98, 1906, 10, 12	6	1882	19	82	3·22	1·16	18
	Leith	1003·8	40·5	44·8	35·0	60	1896	6	1882	17	51	2·00	—	—
	Tynemouth	1005·2	40·0	44·3	34·7	59	1898	19	1882, 86, 91, 92, 1908	16	55	2·18	—	—
	Spurn Head	1006·5	40·7	43·6	36·4	56	1898, 1912	19	1891	16	51	1·99	[1·32]**	[18]**
	Yarmouth	1008·6	40·6	43·6	35·2	60	1901	18	1899, 1906	18	62	2·44	[1·23]§	[16]§
	Clacton-on-Sea	1009·6	40·8	43·4	35·8	[55]‡	[1904]‡	[17]‡	[1908]‡	15	45	1·77	1·52	20
	Nottingham	1007·7	39·9	44·2	33·9	59	1912	9	1908	20	61	2·39	0·90	12
	LONDON (Kew Obsy.)	1009·8	41·4	44·7	35·9	57	1882, 88 1902, 05, 07	11	1890	17	58	2·29	1·19	16

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

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

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

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 306. Wednesday, 1st November.

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	980·2	48.	SW	4	o	986·1	+1	48.	0	SW	6	?	oq	5	9	49	46.	omp	op	o.cqp	*
	Deerness (Orkney)	982·4	47.	SW	5	o	991·2	*	46.	-1	SW	5	SW	c.	4	1	49	46.	op.c	c.o	o.c.	1·7.
	Stornoway ...	982·8	47.	SW	5	c	991·4	+3	49	+2	SW	5	-	ceq	4	9	49	45	op	op c	cqp	0·1
	Castlebay (Barra Isd.)	987·7	50.	W	4	bc	9947	0	50	+1	SW	4	-	bc	4	3	51	46	op.bcp.	op.bc	bc.op.b	1·5.
	Glasgow ...	991·4	46	WSW	5	oqp	1000·4	+2.	42.	-2	SSW	3	SW	bc.	*	7	49	42.	op.bc.c	bc c.op.	opl.bp	2·6
	Eskdalemuir ...	994·6	44	SW	6	or	1001·8	+1	42.	-1	SW	4	-	bc.	*	5	46	40.	o.c	c.o.or	or.cp.b	3·0.
	Malin Head ...	992·0	47.	NE	6	cq	996·1	-1	43	-3	S	5	SW	bcq	5	2	48	41	bcqp	bqp	cql	1·9.
	Blacksod Point	996·5	48.	WSW	5	cq	994·6	-3	49	+4	S	5	S	cmq	4	7	49	43.	cqph.	cqp	cqphl	*
	Valencia ...	1000·8	47.	SSW	2	c	999·2	-2.	48	-1	SW	3	SW	c	4	6	53	45	c	c.ch	bcqtl.cq	4·0
	Roche's Point	1002·6	49	SW	4	c	1002·4	*	51	+5	SW	4	SW	bc	4	6	52	46.	bcp	cp.	cp.bc.	*
	Birr Castle ...	1000·3	43.	SW	1	c	1000·0	*	43	+1	S	1	-	c	*	5	50	40.	cqphr	cphr	c.	3·1
	Donaghadee ...	996·2	47	WSW	6	cmq	1000·8	0	40	-3	SW	2	-	bm	2	-	51	39	bcmq	cmqp	bcqlw	*
	Liverpool (Bidston)	1001·9	47	SW	4	o	1006·0	0	45	-2	SSE	2	S	bc.	2	2.	52	45	bcp	bcp	bc.	4·2.
	Holyhead ...	1000·9	51	WSW	7	cq	1003·6	0	51	+3	SW	4	-	cq	3	-	53	48	c.bcq	c.bc.cq	c.bl.o.c	0·0.
	Pembroke (St. Ann's)	1004·4	51	SSW	7	c	1005·1	-2.	52.	+1	SSW	5	SW	cqp	5	3	53	46	bcq.cq	cqp	cqp	2·9
	Scilly (St. Mary's)	1008·7	52.	SW	5	bc	1007·0	-7	51	+2	SSW	4	S	c	5	2.	55	48.	bcmp	bcp.	bc.c	6·2
	Falmouth ...	1009·6	50.	SW	6	cphlq	1007·9	-4	50	+2	SSW	3	-	r	*	6	55	48.	bcqph	cp cqp	l.bq.dq	5·9
	Jersey (St. Aubin)	1014·4	55	SW	4	bc	1013·7	*	54	0	S	4	S	c.	3	1	58	50.	b.bc.	oq.b.bc.	l.bc.	7·8
	Portland Bill ...	1010·2	54	SW	6	bc	1010·0	-2.	53	0	SSW	5	SW	cp.	4	1	57	50.	bcq	bc.cqp.	bcqp.	*
	Dungeness ...	1009·1	54	WSW	7	bcq	1013·1	0	55	+5	SW	6	SW	c	5	4	56	49	bcqp	bcqp	c.bq.pc	*
	Dover	1012·1	52.	SW	6	b	1014·3	+1	53	+4	SSW	6	S	r	6	5	54	47	b.bc.c.b	b	b.bc.or	7·5
	Wick	983·6	46.	SW	4	bc	993·2	+4	44	0	SSW	4	-	c	3	0·1	51	44	omq.c.	c.bc.	bcp.c	*
	Nairn	985·5	46	WSW	3	cqq	994·7	*	46.	+1	W	3	-	bcq	2	0·4	50	43.	g bc	bcq. c.	cd.o.	3·9.
	Aberdeen	988·9	46.	SSW	4	bc	998·0	+3.	43	-4	SSW	4	-	b.	3	-	49	42.	o	o.c. bc.b	bc.c.b	0·7
	Leith	990·6	47.	W	4	o	1000·5	+1	43	-4	SW	1	SW	b	2	1	48	42.	r.o.c.bc	c.oq.o	op.bc.b	*
	Tynemouth ...	995·3	48.	SW	2	bcm	1002·6	+2	45	-3	SW	2	-	bm	2	2	51	43	bcmqp	cmqp	bm	*
	Spurn Head ...	1002·9	50	W	6	bcq	1007·2	+1	45	-2	SW	4	-	bc	4	-	51	42.	cq	bcq.	bc.	4·7.
	Yarmouth ...	1007·8	48.	W	3	bl	1011·5	+4	45	-1	SW	3	-	b	3	0·4	54	45	cqp	cql.b	bc.b	6·3
	Clacton-on-Sea	1009·4	51	SW	5	b	1013·2	+2.	50	+3	SSW	3	SW	bc.	3	2	56	46	bc	bc.b.	c.bcqr	7·2
	Nottingham ...	1001·9	49	WSW	4	c	1008·5	*	45	-1	SSW	3	SW	b	*	2	50	44	cp	c sp	cp	1·9
	Benson (Oxon.) ...	1009·0	48.	SSW	3	b	1010·7	0	46	+2.	W	4	SW	c	*	1	54	44	or.p.b	b.	c.bc.	*
	Sth Farnborough	1010·3	49.	SW	5	bm	1011·5	-1	47	+1	S	2	SW	b	*	4	56	45	c.bc	bc.b	bpotlqrbm	8·3
	London (Kew Obsy.)	1011·0	51	SW	4	b	1012·1	0	46	-1	S	1	SW	b	*	6	56	45	o.b.oq	oq.bq.b	b.bc.or.b	7·1
NORTHERN EUROPE.	Spitsbergen ...	1013·6	14	N	6	o	1017·3	+1	9	-21	NE	6	*	o	*	*	30	9				
	Vardö	1014·6	36	SW	3	o	1008·0	-3	36	+2	SW	3	-	o	3	*	36	28				
	Bodö	999·3	61	ESE	7	c	994·6	-2.	39	-6	E	5	-	o	2	-	45	37.				
	Christiansund ...	987·7	54	SE	2	c	992·3	+3	46	-8	-	0	-	o	3	-	55	46.				
	Skudesnaes ...	990·7	48.	SSW	5	o	996·2	+3	46	-4	S	4	-	r	5	6	50	45.				
	Færder (X'ianiaFjord)	993·6	46	SW	6	o	1000·0	+3	46	-4	SW	6	W	c	4	11	50	46				
	The Scaw (Skagen)	994·6	48.	W	3	r	1003·3	+2.	46	-4	SW	3	-	o	3	16	52	45.				
	Blaavands Huk	1002·4	50	W	6	c	1007·7	+1	50	+2.	WSW	4	-	o	5	7	52	45.				
	Copenhagen ...	1004·7	50	WSW	6	b	1012·3	+2	48	-2	SW	5	-	o	*	5	54	46				
	Bornholm ...	1006·9	50	WSW	9	b	1015·5	+3	46	0	SW	7	-	m	2	3	52	45				
FRANCE, &c.	The Helder ...	1009·1	54	SW	7	b	1013·6	+3.	54	0	SW	5	-	bc.	3	3	54	50.				
	C. Gris Nez ...	1013·2	54	WSW	7	o	1015·0	+1	53	0	SSW	6	*	c	6	6	55	50.				
	La Hève	1010·7	52.	SW	3	b	1013·2	*	50	-2	S	4	*	o	3	-	51	48				
	Brest (St. Mathieu)	1015·4	54	SSW	5	c	1009·9	-4	55	+1	S	6	*	r	6	-	57	50.				
	Rochefort (Ile d'Aix)	1021·6	55	SW	3	c	1017·5	-3	54	-3	SSE	3	*	o	*	Trace	61	54				
	Biarritz	1022·1	60	NNE	2	o	1016·4	-3	54	-9	ESE	2	*	c	5	-	68	54				
	Paris	1019·0	52.	SSW	2	b	1020·6	-1	46	-9	S	2	-	o	*	-	63	46.				
	Belfort	1023·9	50	W	4	r	1024·7	*	48	-7	-	0	*	c	*	9	63	48.				
	Lyons	1023·3	58	-	0	bc	1023·9	*	49	-4	-	0	*	o	*	-	69	47				
	Nice	1026·0	54	-	0	c	1027·3	+1	52	+2	-	0	*	c	2	-	63	48.				
	Perpignan ...	1024·0	54	-	0	b	1022·1	-1	55	+1	-	0	-	o	*	-	64	48.				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1022·0	57.	SW	3	bc	1016·2	-3	57	0	SSW	4	S	b	4	-	64	54				
	Madrid	1022·9	61	-	0	b	1021·9	+1	50	-2	NE	1	SW	c	*	-	63	46				
	Lisbon																					
	Azores (Horta) ...	1025·3	*	N	5	b							*									
	Madeira	1021·9	72	SW	1	c	1021·6	0	64	-2	NE	2	-	bc	2	-	72	64				
	Gibraltar	1022·7	60	E	2	m	1020·6	*	62	+1	E	3	*	m	3	-	70	58				
	Malta	*	*	*	*	*	1028·3	+2	68	+2	NE	4	NE	b	3	-	68	64				
	Limassol	*	*	*	*	*	1015·3	-2	66	0	W	2	-	b	2	-	79	52				
	Alexandria ...	1018·4	70	NNE	2	b	1015·7	0	73	+3	-	0	E	b	0	-	77	63				
	Cairo (Helwan) ...	1017·0	68	NNE	3	b	1013·7	0	63	-3	NNE	2	-	b	*	-	79	59				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at 7.7.a.m.

2,400 metres	SW 15 metres per sec.
2,100 "	SW 17 " " "
1,800 "	SW 17 " " "
1,500 "	SW 18 " " "
1,200 "	SW 19 " " "
900 "	SW 14 " " "
600 "	SW 13 " " "
300 "	SW's 12 " " "
Surface	S 5 " " "

GALES

Duration and Extreme Force in British Islands.

Eskdalemuir
31st 7 p.m. Gust. SW 21 m.p.s.

Holyhead
31st 10 a.m. - 1 p.m. WSW 8.

Pembroke.
31st 9 a.m. - 3 p.m. SW 9.

Portland Bill.
31st 7 a.m. - 8 p.m. WSW 8.

Dungeness.
31st 11 a.m. - 5 p.m. WSW 8
31st 7 p.m. - Midr. SW 8

London (Kew Obsy)
31st 1.20 p.m. Gust WSW 18 m.p.s.
Southport
31st 11 a.m. - 4 p.m. SW 8
Gusts SW 27 m.p.s

Pilot Balloon Ascent at Aberdeen. 8 a.m.

1,200 metres	SW'ly 19 metres per sec
900 "	SW'ly 24 " " "
600 "	SW 21 " " "
300 "	SW's 13 " " "
150 "	SW's 10 " " "
Surface	SSW 5 " " "

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	58	85	7·1	57	42.	35	4	bc	bc.c	c.op.b
CITY (Bunhill Row)	*	*	6·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	60	88	6·5	58	41	38	4	bc	b.bop	bop.bc
CAMDEN SQ. (British Rainfall) ..	57	84	6·0	57	45	40	4	b	bc.c	*
HAMPSTEAD (Reservoir)	*	87	7·8	54	44	30	3	b	b	or.bc
S. KENSINGTON (Museum Grounds)	*	86	7·0	56	47	39	5	bc.op.c	bc.b	b.c.op.b
RICHMOND PARK	*	*	7·6	*	*	*	*	*	*	*

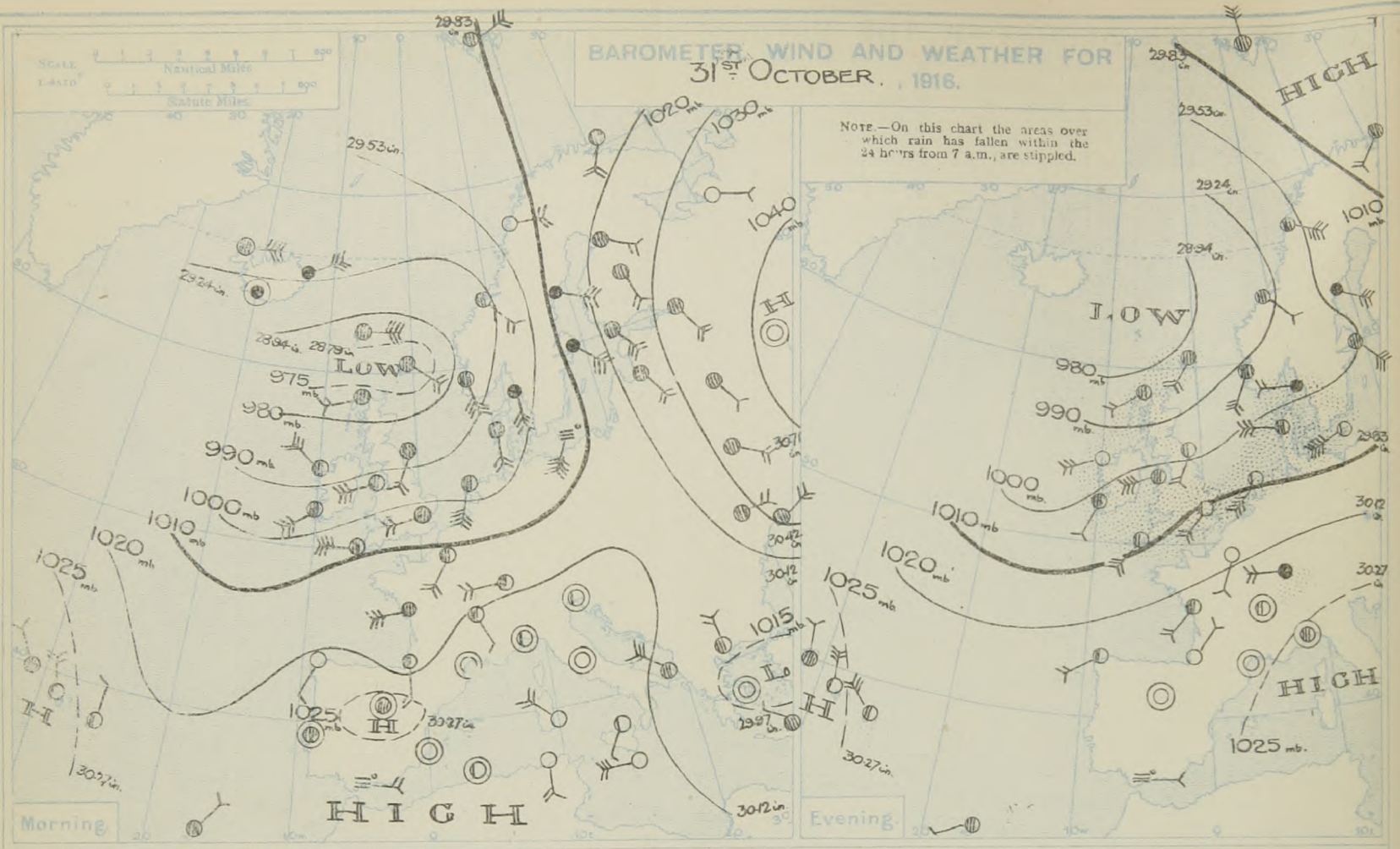
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
621	17·8	38.

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

0 a b, 1, 2 a b — Wind mainly South-Westerly, light or moderate, fresh locally; changeable, some showers; mild.

3, 4 a b, 5 — Wind between South-West and South, light or moderate generally, fresh or strong at times; changeable, showery; rather mild.

6 a b, 7 a b, 8 a b, 9 a b, 10 a b — Wind between South and South West, moderate or fresh, strong at times; changeable, showery,,squally; rather mild.

11 Western Channel and Bay — Southerly and South-Westerly winds, moderate to strong; squally, showery; sea rather rough.

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.

FURTHER OUTLOOK.

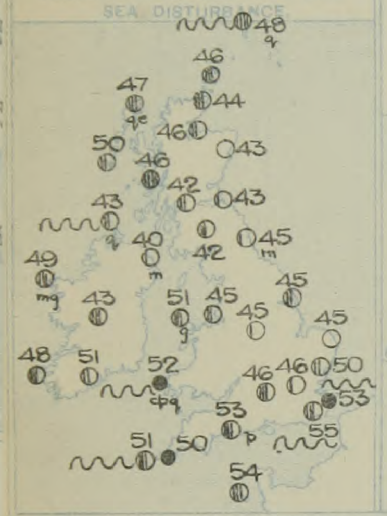
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Wednesday, 1st NOVEMBER, 1916.

GENERAL INFERENCE.

A secondary depression which is approaching our south-west coasts will cause further showers in nearly 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. T, thunder. K, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale 1:12 000 000
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

HIGH
1015 mb
29·97 in.
1010 mb
29·83 in.
29·68 in.
29·53 in.
29·38 in.
Bar. falling
1005 mb
29·24 in.
40°
29·09 in.
LOW
985 mb
990 mb
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
1020 mb
45°
Bar. steady
50°
Bar. falling
29·68 in.
29·83 in.
29·97 in.
30·12 in.
30·27 in.
50°
HIGH
1025 mb
30·12 in.
LOW
1020 mb

Issue No. 20,068

DAILY WEATHER REPORT.

Wednesday, 1st November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...						1035·5	-1	21	-7	SE	2	b	-	*	19
	Gorki						1036·0	*	32	0	SSE	2	o	-	*	27
	Velieki Luki ...						1037·9	*	28	0	SE	3	o	-	*	28
	Hangö						1022·7	-3	41	+5	SSE	5	o	5	*	34
	Riga						1026·7	-1	37	+3	SSE	4	o	-	*	34
	Petrograd ...						1035·1	0	32	+5	SSE	4	o	-	34	25
	Moscow						1043·4	0	21	-2	-	0	b	-	*	18
	Kiev	1035·1	34	SE	4	o	1035·8	0	30	-6	SE	4	o	-	*	30
	Kharkov ...	1038·8	28	E	3	b	1040·0	+2	25	-9	ENE	3	b	-	*	23
	Kishinev ...	1030·4	?	E	?	?	1028·7	+2	39	+2	E	3	o	1	*	36
	Elisabetgrad ...	1033·6	34	ENE	4	o	1034·6	0	30	-7	E	1	c	-	*	30
	Nicolaiev ...	1030·4	37	ESE	5	o	1031·5	*	36	-3	ENE	4	o	-	*	34
	Odessa	1029·5	43	ESE	5	o	1030·9	0	41	-2	ENE	4	o	-	*	37
	Tarkhankout...	1027·7	39	NE	7	o	1027·8	*	39	-2	NE	7	o	-	*	37
	Soukhoum ...	1020·4	57	-	0	o	1021·1	+2	61	0	ENE	1	o	41	*	55
MEDITERRANEAN.	Venice	1019·3	54	-	0	b	1024·2	*	52	0	-	0	b	Trace	61	50
	Pesaro	1020·4	55	N	1	b	1025·6	*	50	-5	-	0	b	4	61	45
	Rome	1020·1	55	-	0	b	1024·2	*	52	-3	-	0	b	Trace	64	48
	Viesti	1016·0	59	NW	4	o	1021·7	*	61	0	NW	4	b	11	66	54
	Brindisi	1016·7	55	W	3	c	1017·9	*	61	-3	NW	5	c	1	63	57
	Cagliari	1019·3	64	NW	4	b	1023·4	*	55	-3	NW	4	b	-	70	43
	Palermo	1021·4	62	SSE	2	b	1024·0	*	66	0	SSW	1	b	-	72	54
	Tripoli	1022·8	75	ENE	4	b	1024·2	*	64	-2	SSW	2	b	-	81	59
	Algiers	1023·8	66	E	2	b	1021·2	0	64	0	-	0	b	-	78	61
SWEDEN.	Hernösand ...	1020·6	39	SE	4	r	1012·3	*	41	+4	SE	6	r	*	*	*
	Stockholm ...	1018·7	43	SE	2	o	1010·3	*	45	+2	SE	6	r	*	*	*
	Wisby	1018·9	45	SE	2	o	1012·7	*	45	0	S	6	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	998·3	37	-6	E	7	o
Reykjavik	990·6	36	+2	E	2	b
Vestmanna	989·0	41	+4	-	0	r
Seydisfjord	993·6	41	-2	ENE	6	r
Thorshavn	978·9	46	+1	E	7	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	5	-	50	44	op.	bc	00.
	Banff	3	-	51	43	c	c.bc	0.6
	Montrose	2	-	51	44	b	o	2.6
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	7	3	49	44	cpqbc	cpqbc	2.5
	Skegness	Trace	1	53	44	c.bc	bp.bc	4.0
Eng. N.W.	Morecambe							
	Southport	4	1	52	45	cr.o.c	cq.bc.c	3.2
Midlands.	Leamington Spa	5	4	51	43	bcop	or.c.b	3.9
	Malvern	6	1	51	43	bcp	p.bc	3.0
	Ross-on-Wye	6	Trace	52	42	ctlor	c.bc	3.8
Wales.	Rhyl	Trace	4	52	45	q	c.bcp.c	4.4
	Colwyn Bay...	*	*	51	47	c	cp.	3.8
	Llandudno	*	*	52	46	c.	brp.	4.2
	Aberystwyth	*	*	55	45	r.o.c	cr.o.	0.7
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	7	Trace	55	45	bc.c	cp.bcb	6.8
	Felixstowe	2	-	55	46	bc	bc	7.6
	Walton-on-Naze							
	Southend-on-Sea	1	-	56	47	b	b	6.8
England, S.E.	Margate	6	-	57	48	b	b	7.5
	Ramsgate	6	-	55	46	b	b	7.9
	Hastings	6	2	57	47	or.b.bc	b.bc	5.8
	Eastbourne	6	Trace	57	50	op.bc	b.bc	5.6
	Seaford	*	*					
	Brighton	11	2	56	50	op	c.	6.8
	Worthing	4	-	57	47	c	bc	6.6
	Littlehampton	5	-	57	39	b	b o	6.5
	Bognor	*	*					
	Bournemouth	6	-	56	47	b	b	7.5
England, S.W.	Weymouth...	*	*					
	Torquay	18	Trace	55	46	bc	bcp	6.0
	Paignton	*	*					
	Penzance	4	2	56	48	bc	bcpe	7.0
	Newquay	2	-	55	45	b	b	5.6
	Bude	6	2	55	46	o	otlr	0.0
	Ilfracombe	10	-	55	46	bc	bo	8.8
	Weston-s-Mare	10	-	55	44	bbc.b	b.bc	6.3

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

1st. & 2nd. November 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	6.50 / 6.52	11.37 / 11.37	4.24 / 4.22
Greenwich	6.55 / 6.57	11.44 / 11.44	4.33 / 4.31
Wick	7.30 / 7.32	11.56 / 11.56	4.32 / 4.26
Valencia	7.37 / 7.39	12.25 / 12.25	5.13 / 5.11

NOTES ON YESTERDAY'S WEATHER.

Showers fell very generally. Lightning was seen in various localities, and thunderstorms occurred locally. Many parts of the Kingdom experienced several hours of bright sunshine. Temperature rose to above 55° 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.

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.

‡ The barometric change is expressed in half millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 307. Thursday, 2nd November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0–12.	Weather.	THIS MORNING: 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 ...	996·1	49	SW	4	bc	996·1	0	47	-1	SSE	3	-	c	3	8	50	46	omqp	c.bc	bc.cp	*
	Deerness (Orkney)	996·3	48	S	3	b	996·3	*	42	-4	WSW	3	W	bc	2	-	50	42	c.bc.b	b.bc.b	b.bc.bc	4·5
	Stornoway ...	993·6	46	SSW	4	cp	995·0	0	44	-3	SSW	2	-	c	2	3	52	42	c.bcp	bc.cp	o.bc.cp	3·1
	Castlebay (Barra Isd.)	993·7	48	S	3	mp	996·8	+1	50	0	SW	4	-	o	4	7	51	45	cp.o.cp	op.c.op	o.c.bpo	0·8
	Glasgow ...	998·9	46	S	3	c	1001·4	?	44	+2	SW	2	W	cm	*	0·4	52	41	bc	bc.c.op	c.op.bc	4·9
	Eskdalemuir ...	1001·0	42	SSW	2	o	1003·2	+1	42	0	S	1	-	c	*	3	47	36	bc.o.or	cqp.oq.	oqp.bc	1·7
	Malin Head ...	995·0	46	SSW	4	oqp	999·1	+1	47	+4	SW	3	SW	bcmq	4	2	50	41	bcq	cqp.	cqp	1·2
	Blacksod Point	998·2	47	SW	4	bcqp	1000·1	0	44	-5	SW	3	SW	bc	3	4	49	42	bcqp	bqp.	bcp.bc	*
	Valencia ...	1003·6	51	WSW	3	b	1003·8	0	45	-3	S	2	S	cp	3	3	53	44	chp	c.bc.b.	b.bcp	3·7
	Roche's Point	1004·6	50	WSW	3	b	1003·6	*	46	-5	W	2	W	c	3	0·4	55	46	bc	bc.b.	b.bc.c	*
	Birr Castle ...	1001·6	47	SW	1	c	1003·8	*	39	-4	S	1	S	c	*	1	52	39	cp	c	c.	4·5
	Donaghadee ...	999·3	46	SW	4	bcmq	1002·1	+1	41	+1	SW	4	-	bcm	3	1	54	40	bcq	bcmqp.	bcmb	*
	Liverpool (Bidston)	1004·2	47	SSW	3	bc	1005·6	0	43	-2	S	2	-	b	1	1	50	43	op	b	bc.b	1·8
	Holyhead ...	1002·6	52	WSW	7	bcgq	1004·6	0	48	-3	SW	3	-	b	2	1	55	48	cp.op.c	c.bcq.	c.bc.b	2·2
	Pembroke (St. Ann's)	1005·4	52	SSW	5	c	1005·9	0	50	-2	SSW	3	SW	cp	4	4	54	49	cr.bcq	bc.cq.	b.bclp	2·6
	Scilly (St. Mary's)	1008·5	52	SW	2	bc	1008·4	0	49	-2	WSW	4	SW	cqp	4	4	55	47	bc	bc.	bcqp	4·2
	Falmouth ...	1009·0	50	SW	3	b	1008·1	-1	43	-7	SW	3	-	b	*	3	55	42	d.cqp.c	bc.b	bm.cp.b	0·7
	Jersey (St. Aubin)	1010·3	52	SW	4	ogr	1010·5	*	52	-2	WSW	3	SW	bc	3	13	61	50	c.b	b.ogr.	o.bc	3·7
	Portland Bill ...	1008·8	55	WSW	3	o	1008·8	0	54	+1	SW	4	SW	bc	4	16	55	52	c.or	o.cp.	o.c.bc	*
	Dungeness ...	1010·1	55	SW	6	bc	1009·2	-1	50	-5	-	0	-	o	1	8	57	50	c.bc	bc.c	bcp.o.	*
	Dover	1010·6	55	S	6	bc	1010·1	0	50	-3	-	0	W	o	1	8	55	49	opr.bc	bc.c.bc.	c.op.mr	4·2
	Wick	996·9	49	SSW	4	bc	996·7	+2.	43	-1	WSW	2	-	bc	2	Trace	50	40	c.bc.	bc	bcp.	*
	Nairn	995·6	48	WSW	3	cg	997·7	*	39	-7	-	0	-	bc	1	-	51	38	bc	bc.c.	c.bcx	5·2
	Aberdeen	999·5	42	S	3	b	999·9	+2.	42.	-1	SSW	3	-	bq	2	-	51	42	b.bc	b.bc.	bc.bq	5·5
	Leith	999·3	46	SW	1	c	1000·6	+1	43	0	SW	1	SW	b	2	0·4	52	42	b	cp.o.c	cp.bc.b	*
	Tynemouth ...	1002·7	46	SSW	2	bcm	1003·2	0	43	-2	SSW	1	-	bm	2	1	49	42	om	bcmp.	bm.	*
	Spurn Head ...	1005·4	50	SW	4	o	1006·8	0	43	-2	SW	4	-	bc	4	8	50	41	c.or	or	o.bc.	0·7
	Yarmouth ...	1009·6	52	SW	3	o	1008·4	0	45	0	SW	2	-	f	2	1	57	45	bcq	bcq	bcp.om	4·0
	Clacton-on-Sea	1010·3	53	SSW	5	r	1009·5	0	48	-2.	SW	1	SW	m	1	8	55	46	bc	bc.ogr	ogr.of	4·2
	Nottingham ...	1006·4	47	SW	2	c	1007·5	*	39	-6	SSW	1	-	om	*	5	52	35	c.or	o.c	c.b	0·0
	Benson (Oxon.) ...	1008·2	49	SSW	2	o	1008·3	0	38	-8	SSW	1	-	o	*	7	53	38	c.or	o.	b.bc.	*
	Sth Farnborough	1008·6	50	S	3	o	1009·0	0	44	-3	SSW	2	-	om	*	8	55	43	b.op.c.or	org.o	o.bc.om	0·3
	London (Kew Obsy.)	1009·1	50	S	3	o	1009·2	-1	41	-5	-	0	-	f	*	9	56	40	b.bc.c.o.om	oq.or.o	or.o.bcm.f	1·2
NORTHERN EUROPE.	Spitsbergen ...	1017·6	5	ENE	6	b	1014·9	-1	5	-4	NNE	4	*	o	*	*	9	5				
	Vardö	1001·2	34	S	1	s	994·7	-4	36	0	SSW	1	-	o	2	*	36	28.				
	Bodö	995·7	41	E	8	o	1000·4	+3	41	+2	NW	2	-	o	2	5	44	36				
	Christiansund ...	999·8	46	-	0	r	1003·8	+1	41	-5	-	0	-	b	3	-	50	39				
	Skudesnaes ...	1005·6	48.	SW	5	c	1003·4	0	45	-1	SE	4	-	o	4	2	50	43.				
	Færder (X'tania Fjord)	1009·7	48.	SW	6	b	1003·7	0	48	+2.	SSW	6	-	o	4	17	48	45				
	The Scaw (Skagen)	1011·1	48	SW	2	o	1006·4	+1	48	+2.	SSW	3	-	o	4	3	50	45				
	Blaavands Huk	1013·3	50	SW	3	o	1009·0	0	50	0	SW	1	-	o	3	1	52	46				
	Copenhagen ...	1017·6	50	WSW	4	c	1012·4	-1	50	+2.	SW	4	-	r	*	1	52	46				
	Bornholm ...	1018·9	48	WSW	6	m	1014·6	-3	48	+2	S	7	SW	m	2	-	50	45				
FRANCE, &c.	The Helder ...	1012·2	48.	S	4	b	1009·0	0	50	-4	S	2	-	m	1	Trace	54	48				
	C. Gris Nez ...	1011·3	53	S	5	bc	1010·1	-1	52	-1	SW	2	*	r	1	6	55	52				
	La Hêve	1008·6	48	SSW	2	c	1009·3	*	51	+1	SW	3	*	r	3	2	57	50				
	Brest (St. Mathieu)	1010·4	52	SW	3	c	1011·1	-1	54	-1	WSW	4	*	bc	5	-	57	50				
	Rochefort (Ile d'Aix)	10143	57	SSW	3	o	1013·6	+1	54	0	SW	3	*	r	*	10	61	52.				
	Biarritz	1013·3	63	E	3	o	1015·5	+3	59	+5	NNW	3	*	o	4	-	70	54				
	Paris	1014·3	55	SSE	2	o	1011·5	-1	54	+8	S	1	-	o	*	2	59	46				
	Belfort	1020·8	54	ENE	4	b	1018·1	*	46	-2	-	0	*	c	*	-	59	41				
	Lyons	1019·9	59	S	3	o	1015·1	*	58	+9	3	6	*	o	*	-	65	49				
	Nice	1026·0	56	-	0	c	1022·9	0	55	+3	-	0	*	bc	2	-	63	48				
	Perpignan ...	1018·3	61	SE	2	o	1016·8	+1	54	-1	NW	1	SW	c	*	-	66	52				
	Sanguinaire ...	*	64	N	3	b	*	*	57		E	3	*	bc	2	-	68	48.				
SOUTHERN STATIONS.	Corunna	10147	57	-	0	r	1016·0	+2.	52	-5.	S	1	-	b	2	15	63	50				
	Madrid	1016·3	55	W	1	o	1020·8	+3	50	0	WSW	1	SW	bc	*	-	68	50				
	Lisbon																					
	Azores (Horta) ...	1025·0	*	W	5	o							*									
	Madeira	1021·5	70	N	3	r	1020·8	0	64	0	N	1	-	o	1	-	72	64				
	Gibraltar	1020·0	75	-	0	b	1019·3	*	62.	+2.	NW	4	*	b	2	-	67	56				
	Malta	*	*	*	*	*	1023·7	0	66	-2	ENE	3	-	bc	2	-	70	64				
	Limassol	*	*	*	*	*	1009·5	0	73	+7	-	0	-	b	0	-	73	57				
	Alexandria ...	1014·1	70	NE	2	bc	1012·3	•	72	-1	NE	2	NW	b	1	-	79	68				
	Cairo (Helwan) ...	1012·4	70	N	3	b	1011·9	+4	64	+1	-	0	-	o	*	-	79	61				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at 7.25 a.m.

3000 metres	SW'lW	13 metres per sec.
2,700	SW	14
2,400	SW'lW	11
2,100	SW'lW	10
1,800	SW	8
1,500	SWlW	7
1,200	SW	8
900	WSW	7
600	WSW	7
300	WSW	7
Surface	SSW	3

GALES

Duration and Extreme Force in British Islands.

London (Kew Obsy.)

1st 12.12 p.m. Gust SSW 18 m.p.s.

LONDON OBSERVATIONS.

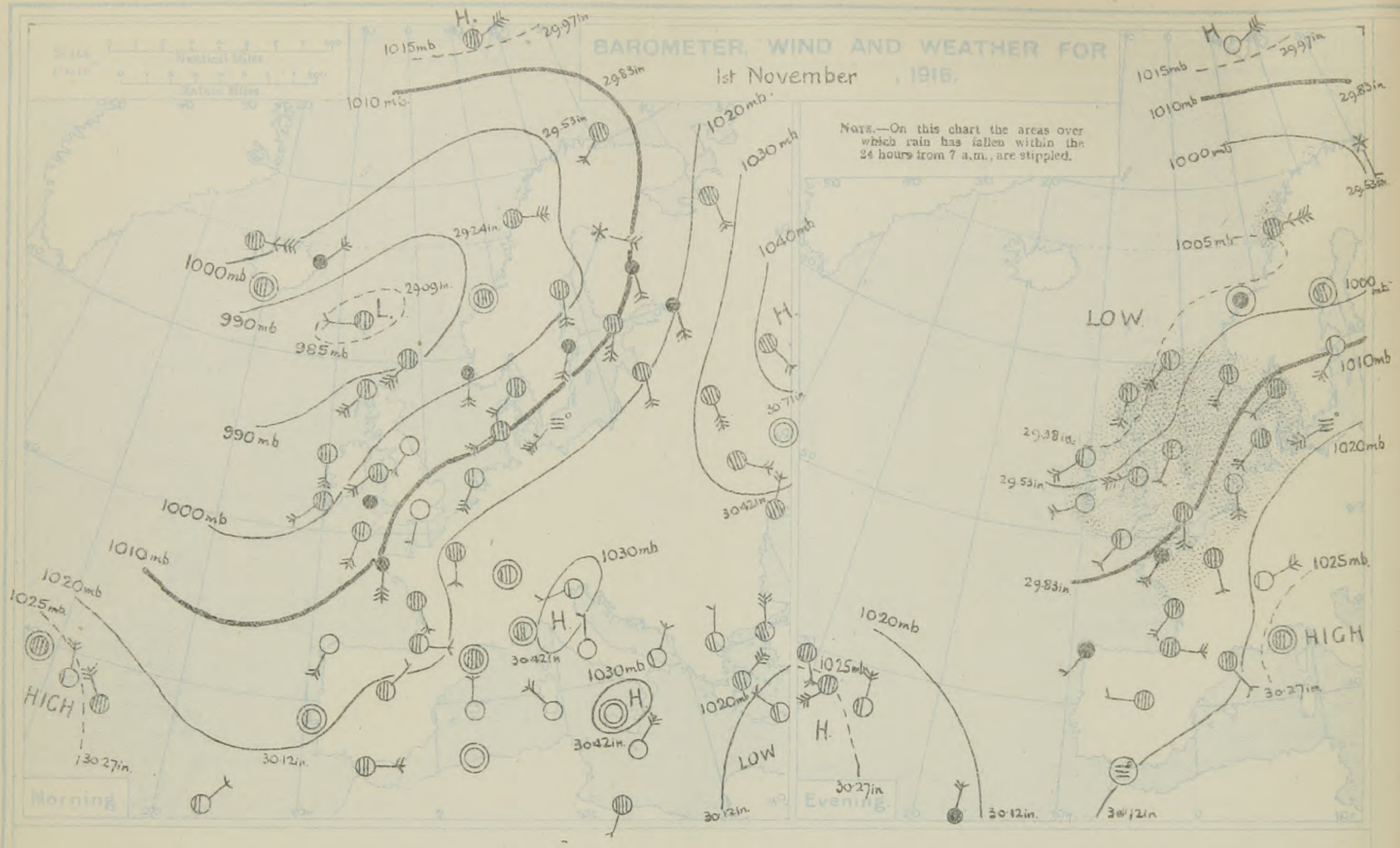
	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	84	98	4·1	59	41	33	6	bc.c	o.op	op.o.om
CITY (Bunhill Row)	*	*	0·8.	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	85	99	1·2	58	42	36	7	bc.or	or	r.ofe
CAMDEN SQ. (British Rainfall) ..	91	99	0·6	58	42	39	8	o	o.or	*
HAMPSTEAD (Reservoir)	*	95	0·4	55	43	29	12	c	o	of.bf
S. KENSINGTON (Museum Grounds)	*	94	0·5	67	45	?	8	b.bc.or	o.or	or.om
RICHMOND PARK	*	*	1·2	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
328	9.5	26

Temperatures at Greenwich and Camden Square are from Glaisher screens.



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.

No Warnings Issued.

0	a, b	South-Westerly and Southerly winds, light; variable sky, some local showers and mist; moderate temperature.
1		
2	a, b	
3		South-Westerly winds, light; variable sky, some local showers, mist or fog in places; moderate temperature.
4	a, b	
5		
6	a, b	Wind South-Westerly or Southerly, light or moderate; weather rather variable, some showers; moderate temperature.
7	a, b	
8	a, b	
9	a, b	
10	a, b	
11		South-Westerly winds, moderate; sea moderate or slight; cloudy, some showers.

Western Channel and Bay

FURTHER OUTLOOK.

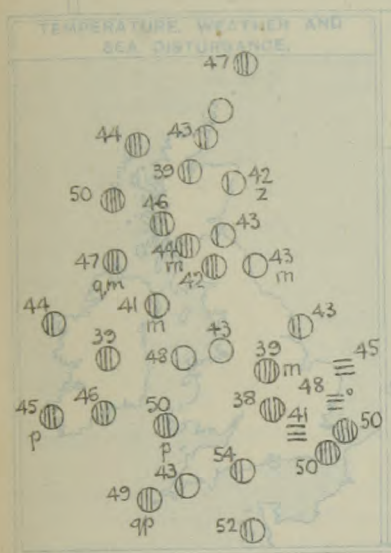
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

BY HARRISON & SONS LTD., PRINTERS IN ORDINARY TO HIS MAJESTY, LONDON, W.C.

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 2nd NOVEMBER, 1916.

GENERAL INFERENCE.

There are no indications of any change of importance in the conditions now prevalent.



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.

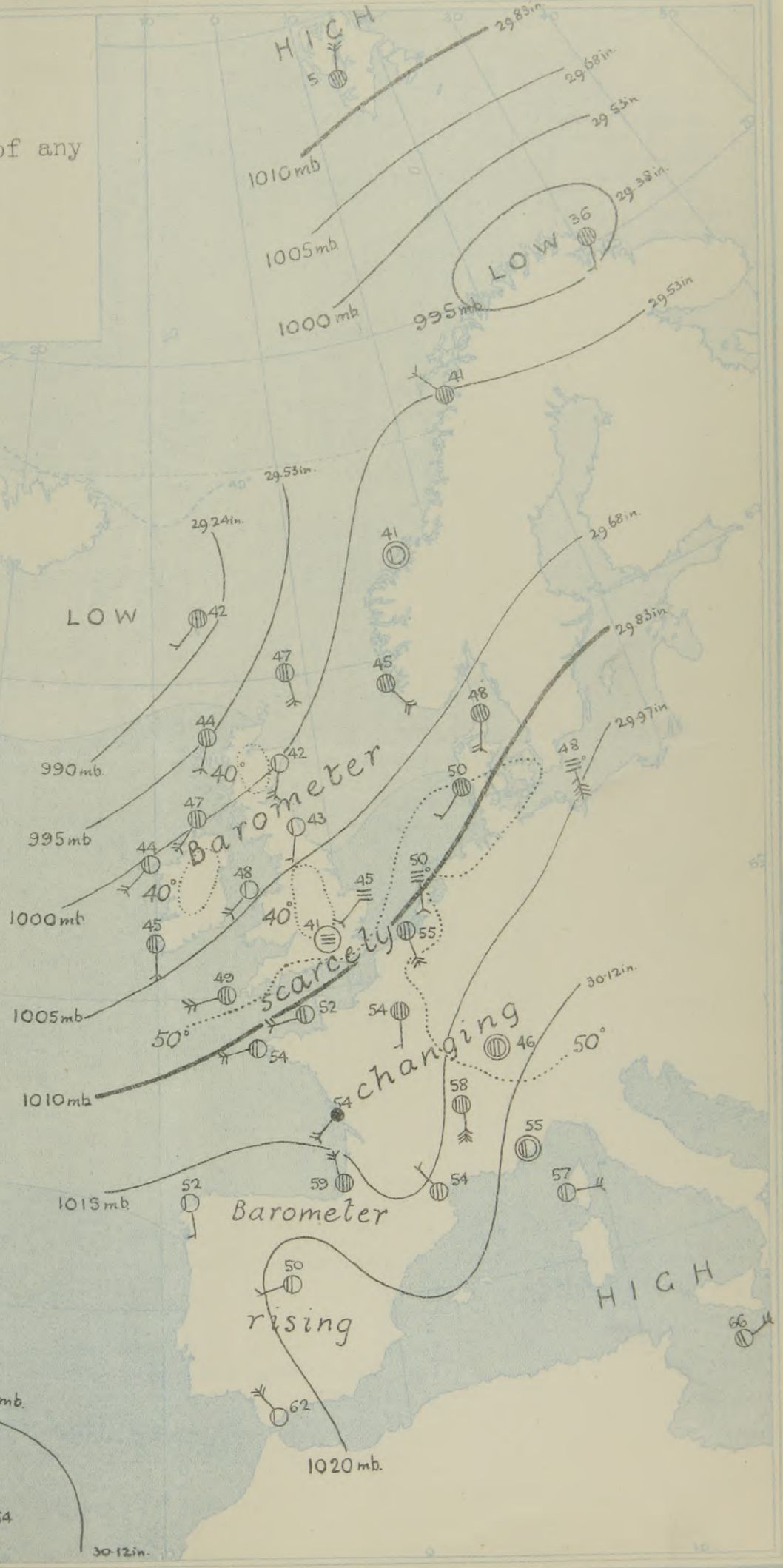
SEA DISTURBANCE.—Rough ~~ High ≈≈.

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 50 | 50–60 | 60–70 | Above 70

Scale of Tints for NOVEMBER.



Issue No. 20069. **DAILY WEATHER REPORT.** Thursday, 2nd November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					†	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1032.2	23	S	3	0	1026.3	−4	23	+2	S	4	0	—	*	19
	Gorki	1033.1	30	SE	6	b	1030.6	?	27	−5	S	6	0	—	*	27
	Velieki Luki ...						1028.7	*	32	+4	SSE	3	0	—	*	28
	Hangö		39	SSE	8	r	1029.2	+1	46	+5	SSW	5	0	6	*	37
	Riga	1018.1	39	SSE	7	r	1019.0	0	43	+6	S	4	0	2	*	37
	Petrograd ...	1027.1	30	SSE	7	b	1020.0	−3	32	0	S	4	r	2	34	28
	Moscow	1041.3	25	SSE	2	bc	1040.8	−2	21	0	SSE	3	0	—	*	19
	Kiev	1036.3	32	SE	3	b	1036.2	0	30	0	SE	3	0	—	*	28
	Kharkov ...	1026.9	34	—	0	0	1026.9	0	36	+9	—	0	0	—	*	7
	Kishinev ...	1032.9	36	E	2	0	1032.6	0	37	−2	NW	1	0	—	*	34
	Elisabetgrad ...	1036.2	41	E	4	0	1035.8	0	30	0	E	3	0	—	*	30
	Nicolaiev ...	1032.7	41	ENE	2	0	1033.5	*	36	0	ENE	3	0	—	*	34
	Odessa	1032.9	39	ENE	3	0	1033.1	0	37	−4	NNE	3	0	—	*	36
	Tarkhankout...						1030.3	*	41	+2	E	4	0	—	*	39
	Soukhoum ...	1028.3	43	NE	7	bc				-					*	
MEDITERRANEAN.	Venice	1025.5	55	—	0	b	1030.5	*	48	−4	WSW	1	b	—	64	46
	Pesaro	1024.8	52	NW	1	b	1027.7	*	46	−4	—	0	b	—	61	45
	Rome	1027.4	55	—	0	b	1027.1	*	48	−4	N	1	b	—	64	46
	Viesti	1027.3	59	WNW	1	b	1025.2	*	59	−2	NW	1	b	—	66	55
	Brindisi	1024.3	63	NNW	2	b	1025.4	*	68	+7	NE	2	b	—	68	59
	Cagliari	1024.7	66	NW	3	b	1024.9	*	57	+2	NW	3	b	—	72	48
	Palermo	1025.5	61	SSE	1	b	1030.6	*	61	−5	—	0	b	—	72	48
	Tripoli	1024.3	68	ENE	3	b	1026.9	*	63	−1	SSW	1	0	—	75	61
	Algiers	1022.4	68	—	0	b	1020.4	0	64	0	—	0	b	—	77	63
SWEDEN.	Hernösand ...	1002.4	41	SE	6	r	992.6	*	45	+4	S	4	0	*	*	*
	Stockholm ...	999.5	46	SE	6	0	1005.1	*	46	+1	SSW	4	r	*	*	*
	Wisby	1003.1	48	S	6	0	1011.0	*	48	+3	SW	6	c	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1003.3	43	+6	E	8	0
Reykjavik	995.8	37	+1	NNE	3	b
Vestmanna	994.3	36	−5	—	0	c
Seydisfjord	996.3	41	0	NE	4	r
Thorshavn	982.0	45	−1	W	2	0

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	6	4	50	44	bcp	bcp	1.3
	Banff	—	—	52	43	b	bc	5.5
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	—	—	52	42	bc	c	4.9
Eng. N.E.	Harrogate	1	2	48	42	c o	op c. bc	0.0
	Skegness	—	6	52	44	c. or	r. og	0.5
Eng. N.W.	Morecambe	2	1	49	44	—	—	0.4
	Southport	2	1	49	44	or	or. bc. c	1.9
Midlands.	Leamington Spa							
	Malvern	5	5	51	44	or. c	c. bc	0.0
	Ross-on-Wye	7	5	52	45	or	or. c	0.0
Wales.	Rhyl	1	—	53	44	cp	o. c. bc	2.4
	Colwyn Bay...	*	*	52	46	p. c	bc	3.0
	Llandudno	*	*	56	46	r. c	bc	2.6
	Aberystwyth	*	*	53	45	r. oc	bc. o	2.5
	Tenby	13	3	55	45	r. bc. c	bc	2.3

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	—	—	57	47	c	c op	5.0
	Felixstowe	1	1	55	47	bc	bc. or	5.7
	Walton-on-Naze	—	Trace	54	48	b. bc	bc. bcp	3.6
	Southend-on-Sea	3	2	58	47	bc. c	bc. c. or	4.5
England, S.E.	Margate	—	—	57	47	b. bc	c	3.1
	Ramsgate	1	—	55	47	bc	c	3.3
	Hastings	5	—	57	48	or. bc. b	b. bc. o	5.0
	Eastbourne	6	Trace	57	49	bc. f.	bc. b	5.6
	Seaford	*	*	57	48	c	bc	3.3
	Brighton	2	7	56	52	c	c. or	2.4
	Worthing	1	5	57	52	bc	bc. r	2.2
	Littlehampton	1	1	57	51	bc. o	or	1.8
	Bognor	*	*					
	Bournemouth	8	8	56	46	c. or	or	0.5
England, S.W.	Weymouth...	*	*	57	48	o f r	r. c. bc	0.0
	Torquay	12	2	54	49	op	op	0.1
	Paignton	*	*					
	Penzance	3	—	55	49	o c	bc	3.0
	Newquay	1	1	55	47	c	c	0.7
	Bude	7	—	55	47	c	c	0.4
	Ilfracombe	11	Trace	54	45	bc. c	bc. c	0.0
	Weston-s-Mare	2	3	54	44	r. c	c. bc	0.0

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

2nd & 3rd November, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T	G.M.T
Yarmouth	6 52 6 54	11.37 11.37	4.32 4.30
Greenwich	6.57 6.59	11.44 11.44	4.31 4.29
Wick	7.32 7.35	11.56 11.56	4.20 4.17
Valencia	7.39 7.41	12.25 12.25	5.11 5.9

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 55° at some southern and western stations. Rain fell very generally; 16 mm. at Portland Bill. Bright sunshine records varied greatly; several places in the north, east and south-east of Britain had about 5 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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Printed at the Meteorological Office, South Kensington, London S.W

† The barometric change is expressed in half millibars

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 308 — Friday, 3rd November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F	Wind: Direc.	Wind: Force 0–12.	Weather.	THIS MORNING: 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 ...	998·8	45	SSE	2	bc	1003·2	+1	44	-3	S	2	SW	bc	2	1	51	43	bcp	bc	bc	*
	Deerness (Orkney)	1000·0	45	SW	4	bc	1001·7	*	41	-1	SW	2	-	b	2	2	49	40	bc.c	c.or.bc	bc.b	3·0
	Stornoway ...	1000·2	45	SW	3	cp	999·3	-1	39	-5	S	2	-	c	2	6	50	38	cp	cp.	bc.cp	1·9
	Castlebay (Barra Isd.)	1000·7	46	W	3	cp	997·2	-3	48	-2	SE	5	-	o	5	2	52	45	o.bc	bc.op.	op.bc.o	3·1
	Glasgow ...	1004·2	45	SSW	2	cj	1001·2	-3	38	-6	ENE	2	S	omd	*	Trace	50	36	c.bcz	bc.cz	c.bc.co	3·2
	Eskdalemuir ...	1005·8	42	S	2	o	1002·6	-3	38	-4	WSW	1	-	c	*	5	48	37	c.bc.c	c.op.o	c.bc.cp	2·9
	Malin Head ...	1001·1	46	SE	4	bcqp	993·0	-8	45	-2	SE	4	SE	cq	4	1	51	38	bc	bcqp.	cq	6·2
	Blacksod Point	1001·9	45	SW	3	cp	980·0	-20	44	0	ENE	5	-	omr	3	.6	51	40	bcp	bcp.	bc.omr	*
	Valencia ...	1003·1	47	SSE	3	c	968·1	-17	48	+3	SSE	7	S	o	5	22	53	44	cp.bc	cp.bc	bc.c.or	4·1
	Roche's Point	1005·7	50	SSW	3	c	978·2	*	52	+6	S	7	S	c	7	17	53	45	bc.cp	bc.c.	b.or.c	-
	Birr Castle ...	1004·7	42	S	1	c	978·8	*	47	+8	SE	6	-	o	*	4	51	39	c	cr.cq	or	5·7
	Donaghadee ...	1003·9	44	SSW	3	bcm	995·6	-7	49	+8	SE	5	-	omqp	4	1	52	38	cm	bcm.	bcmp	*
	Liverpool (Bidston)	1007·1	44	SW	1	b	999·6	-8	43	0	ESE	4	E	o	3	1	51	40	b.bc	op.	o	2·9
	Holyhead ...	1005·8	48	WSW	4	bc	994·5	-11	48	0	SE	6	SW	cgq	5	8	54	45	b.bc.or	or.c.bc	op.bc.o	0·0
	Pembroke (St. Ann's)	1007·6	51	SW	5	c	990·7	-24	52	+2	SSE	8	-	or	6	7	54	48	bcqp	bc.cq	cp.q	2·6
	Scilly (St. Mary's)	1009·4	51	S	2	bcv	987·7	-14	53	+4	SSE	9	S	omqr	6	7	55	47	bcp	bcv.	bc.omr	7·2
	Falmouth ...	1010·3	46	SW	2	b	992·0	-10	52	+9	SSE	7	-	rq	*	7	54	43	b.bcp	b.	bc.crq	6·9
	Jersey (St. Aubin)	1012·9	53	W	3	b	1003·3	*	51	-1	SE	6	-	o	5	0·2	58	49	b.bc	c.op.b	b.ogr	5·8
	Portland Bill ...	1010·3	53	WSW	4	bc	1000·0	-9	54	0	SSE	7	S	c	6	1	55	49	bcp	bc.	bc.c	*
	Dungeness ...	1010·6	53	SW	3	bc	1007·2	-3	53	+3	SSW	5	SW	bc	4	0·3	57	49	bc	bc.	cp.bp.c	*
	Dover	1012·0	50	WSW	3	b	1008·3	-3	51	+1	S	5	S	c	4	0·3	56	42	o.c.bc	bc.b	b.p.r.c	3·2
	Wick	1000·1	43	SSW	2	bc.	1001·9	0	42	-1	-	0	-	bc	2	0·1	47	37	bc.op.o	opd.bc	bc.	*
	Nairn	1000·9	43	W	1	bc	1001·2	*	35	-4	-	0	-	bc	1	-	50	33	bc	bc.c.bc	bcx	2·1
	Aberdeen	1003·0	42	SW	2	bz	1003·5	0	36	-6	SSW	1	-	bzc	2	-	51	36	bc.c	bc.bz	bc.bzc	3·6
	Leith	1004·0	47	SSW	1	bc	1001·9	-1	40	-3	SE	1	SE	c	2	-	51	39	b	b	bc.bm.c	*
	Tynemouth ...	1005·6	48	SSW	1	bm	1004·6	-1	39	-4	SW	1	-	bm	2	-	53	39	bcm	bcm.	bm.	*
	Spurn Head ...	1007·9	49	WSW	3	cl	1006·6	-1	44	+1	WSW	3	-	bc	3	1	50	41	bcm	bc.tr	bc	5·6
	Yarmouth ...	1009·8	47	SW	2	b	1008·5	-2	48	+3	S	2	-	bc	2	-	54	40	f.bcm	bcm.bm	b.bc	2·5
	Clacton-on-Sea	1010·8	51	SSW	2	bc	1008·5	-2	51	+3	SSE	4	S	c	3	2	54	44	c.bcm	bcmgr	bc.c	2·0
	Nottingham ...	1008·4	44	W	1	c	1004·5	*	41	+2	ESE	2	-	o	*	1	52	33	om.c	bc.tkp	c.b	2·2
	Benson (Oxon.) ...	1010·1	44	SW	1	b	1003·4	-6	45	+7	ESE	5	-	o	*	1	54	36	op.b	bp.b.	bc	*
	Sth Farnborough	1010·9	47	SW	2	b	1004·7	-6	47	+3	SSE	3	-	om	*	1	55	38	omqpb	c.b	b.omx	4·2
	London (Kew Obsy.)	1010·9	48	SW	1	bm	1005·7	-4	47	+6	SSE	2	NE	omw	*	0·1	52	36	fc.clp.bc	bcm.bm	bc.omw	3·4
NORTHERN EUROPE.	Spitsbergen ...	1015·1	0	NE	4	bc	1015·7	+2	-2	-7	N	1	*	o	*	*	5	-2				
	Vardö	998·9	34	NW	4	s	1014·7	+3	30	-6	NW	3	-	o	3	*	36	32				
	Bodö	1004·7	37	-	0	o	1004·0	0	37	-4	-	0	-	o	0	-	44	34				
	Christiansund ...	1004·2	43	-	0	b	1004·4	+1	41	0	-	0	-	o	3	-	45	37				
	Skudesnaes ...	1004·4	48	S	4	m	1005·9	+1	46	+1	SW	3	-	m	4	-	50	45				
	Færder (X'tania Fjord)	1007·0	46	-	0	b	1007·1	+1	43	-5	SW	2	-	m	1	-	48	41				
	The Scaw (Skagen)	1007·8	48	S	1	c	1007·3	+2	43	-5	SW	2	-	bc	2	-	52	43				
	Blaavands Huk	1008·0	48	SSW	1	o	1010·7	+1	46	-4	WSW	1	-	bc	2	3	52	45				
	Copenhagen ...	1008·0	50	SW	1	r	1012·6	+4	45	-5	W	2	-	f	*	16	52	45				
	Bornholm ...	1009·6	52	SSW	5	rc	1012·6	+4	48	0	WNW	6	-	m	2	Trace	52	46				
FRANCE, &c.	The Helder ...	1010·7	50	SW	1	b	1011·8	+1	43	-7	S	3	-	f	2	3	52	43				
	C. Gris Nez ...	1012·4	54	SSW	4	bc	1008·8	-2	46	-6	SE	3	*	bc	2	7	55	45				
	La Hève	1008·6	55	WSW	3	bc	1005·6	*	47	-4	SE	4	*	o	3	1	57	45				
	Brest (St. Mathieu)	1012·0	54	SW	3	b	995·8	-8	54	0	SSE	7	*	r	7	3	57	52				
	Rochefort (Ile d'Aix)	1016·0	55	W	4	r	1007·9	-3	50	-4	SSE	5	*	o	*	3	61	48				
	Biarritz	1018·3	58	WNW	2	o	1009·0	-3	63	+4	SSW	3	*	o	2	2	63	50				
	Paris	1014·9	48	-	0	b	1012·2	-3	48	-6	S	3	-	o	*	3	57	43				
	Belfort	1017·2	52	W	6	r	1018·6	*	47	+1	E	2	*	bc	*	11	64	46				
	Lyons	1015·5	60	S	4	o	1016·0	*	46	-12	-	0	*	b	*	9	61	45				
	Nice	1021·2	55	-	0	o	1019·3	0	52	-3	E	4	*	b	3	-	63	48				
	Perpignan ...	1014·7	63	SE	3	o	1015·3	-3	52	-2	-	0	-	o	*	-	70	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1015·4	57	S	4	o	1001·7	-2	59	+7	S	6	-	c	4	Trace	61	55				
	Madrid	1017·0	57	W	3	b	1015·9	-1	48	-2	-	0	-	o	*	-	61	45				
	Lisbon	1017·7	63	SSW	2	o	1009·9	-3	61	+4	SSW	5	-	r	6	11	64	57				
	Azores (Horta) ...	1010·0	*	WSW	9	m	1007·9	-1	66	+1	WSW	8	*	o	5	1	68	66				
	Madeira	1019·7	68	N	1	bc	1017·1	0	64	0	W	1	-	o	1	-	72	64				
	Gibraltar	1016·9	62	NW	3	m	1015·9	*	55	-7	NW	1	*	m	1	-	74	54				
	Malta	*	*	*	*	*	1020·3	+2	63	-3	-	0	-	b	0	-	70	61				
	Limassol	*	*	*	*	*	1009·0	+2	75	+2	ENE	5	-	o	4	-	84	64				
	Alexandria ...	1009·9	70	N	4	r	1010·0	0	63	-9	-	0	nw	o	0	19	79	59				
	Cairo (Helwan) ...	1009·3	68	NW	1	b	1010·1	+2	63	-1	-	0	SW	b	*	-	79	59				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.10 a.m.

1,050 metres	S	22 metres per sec.
900 "	SE	19 " "
600 "	SE	17 " "
300 "	SSE	12 " "
Surface	SE	10 " "

GALES
Duration and Extreme Force in British Islands.

Valencia
3rd 4 a.m. ESE 8
Pembroke
3rd 4 a.m.-7 a.m. SSE 8
Scilly
3rd 3 a.m.-7 a.m. SSE 8
Ex. SSE 9 at 5 a.m. & 7 a.m.
Roche's Point
2nd 11 p.m. S 8.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday. %	Humidity: 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature: Max. °F.	Temperature: Min. °F.	Temperature: Min. on Grass. °F.	Rainfall. mm.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
GREENWICH (Royal Observatory)	84	89	3·3	57	38	31	2	c.ctp	o	c.b.c.o
CITY (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	81	86	1·9	55	40	32	1	r.bc	bcp.o	o
CAMDEN SQ. (British Rainfall) ..	75	93	1·9	56	38	35	Trace	bm.c	c.o	*
HAMPSTEAD (Reservoir)	*	91	2·5	53	39	24	Trace	b	cx	ox
S. KENSINGTON (Museum Grounds)	*	86	2·5	55	43	32	1	cj om	om.op.bc	bc.b
RICHMOND PARK	*	*	2·6	*	*	*	*	*	*	*

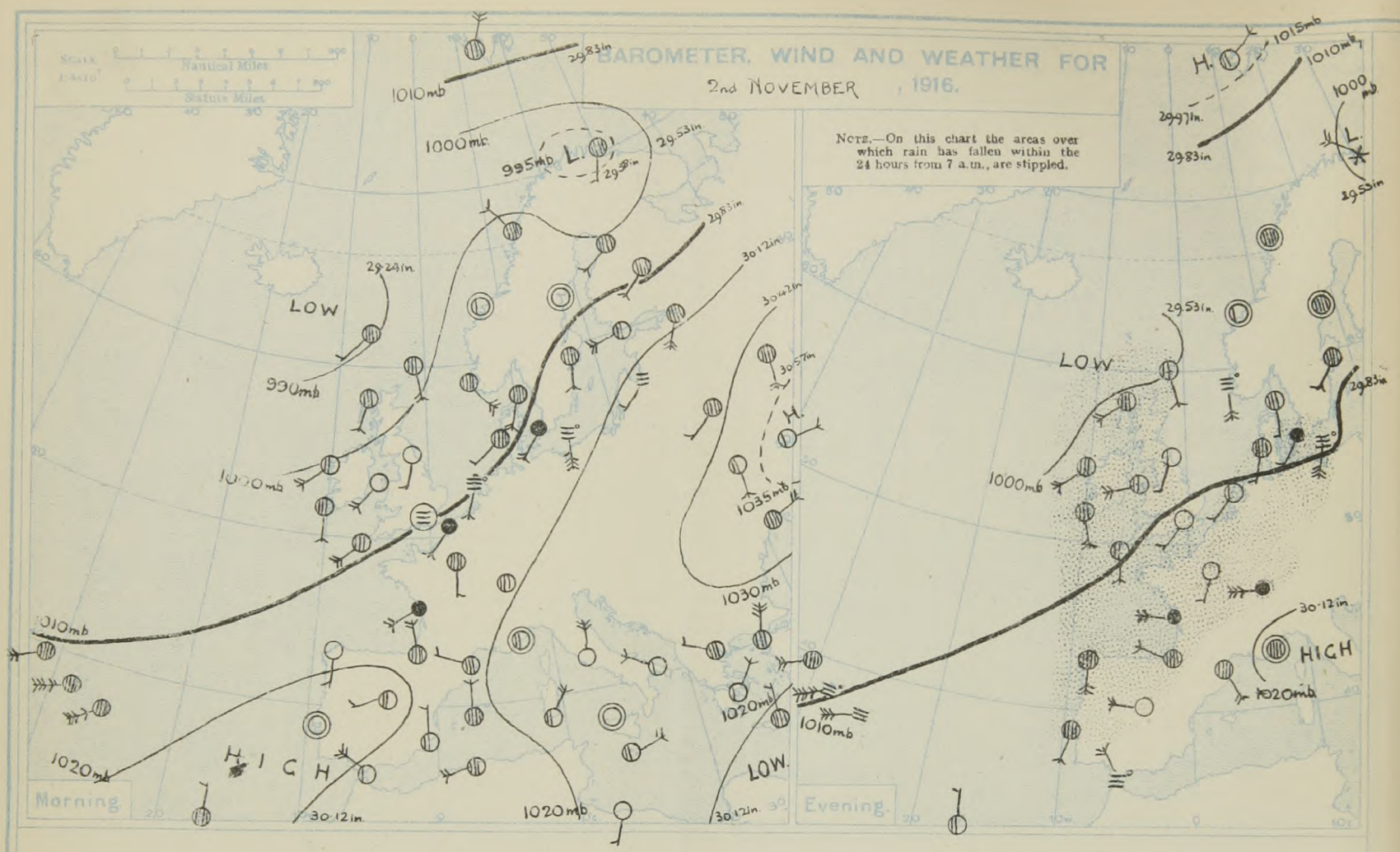
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
423	12·3	41

Temperatures at Greenwich and Camden Square are from Glaisher screens.

† Received too late for insertion in Charts. * The barometric change is expressed in half millibars.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

South Cone hoisted this morning.

0	a, b	Wind between South and East, increasing greatly, a gale in places; becoming rainy; temperature rising somewhat.
1		
2	a, b	Wind mainly Southerly, increasing, a gale in places; rainy, squally; mild.
3		
4	a, b	
5		
6	a, b	Same as Nos. 0 and 1.
7	a, b	Southerly gales, veering later; rainy, squally; mild.
8	a, b	
9	a, b	Gales to strong winds, varying in direction;
10	a, b	rainy, squally, hail locally, sudden changes of temperature.
Western Channel and Bay	11	South-Westerly to Westerly gales and strong winds; sea high; rainy, squally.

FURTHER OUTLOOK.

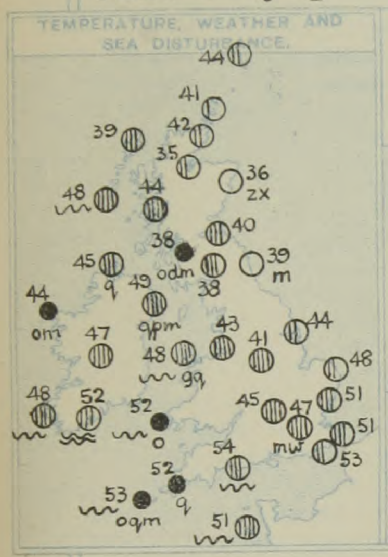
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF FRIDAY 3rd NOVEMBER, 1916.

GENERAL INFERENCE.

The deep depression centred off the south-west of Ireland will extend over the whole Kingdom and cause strong winds and gales, with rain very generally.



EXPLANATION.

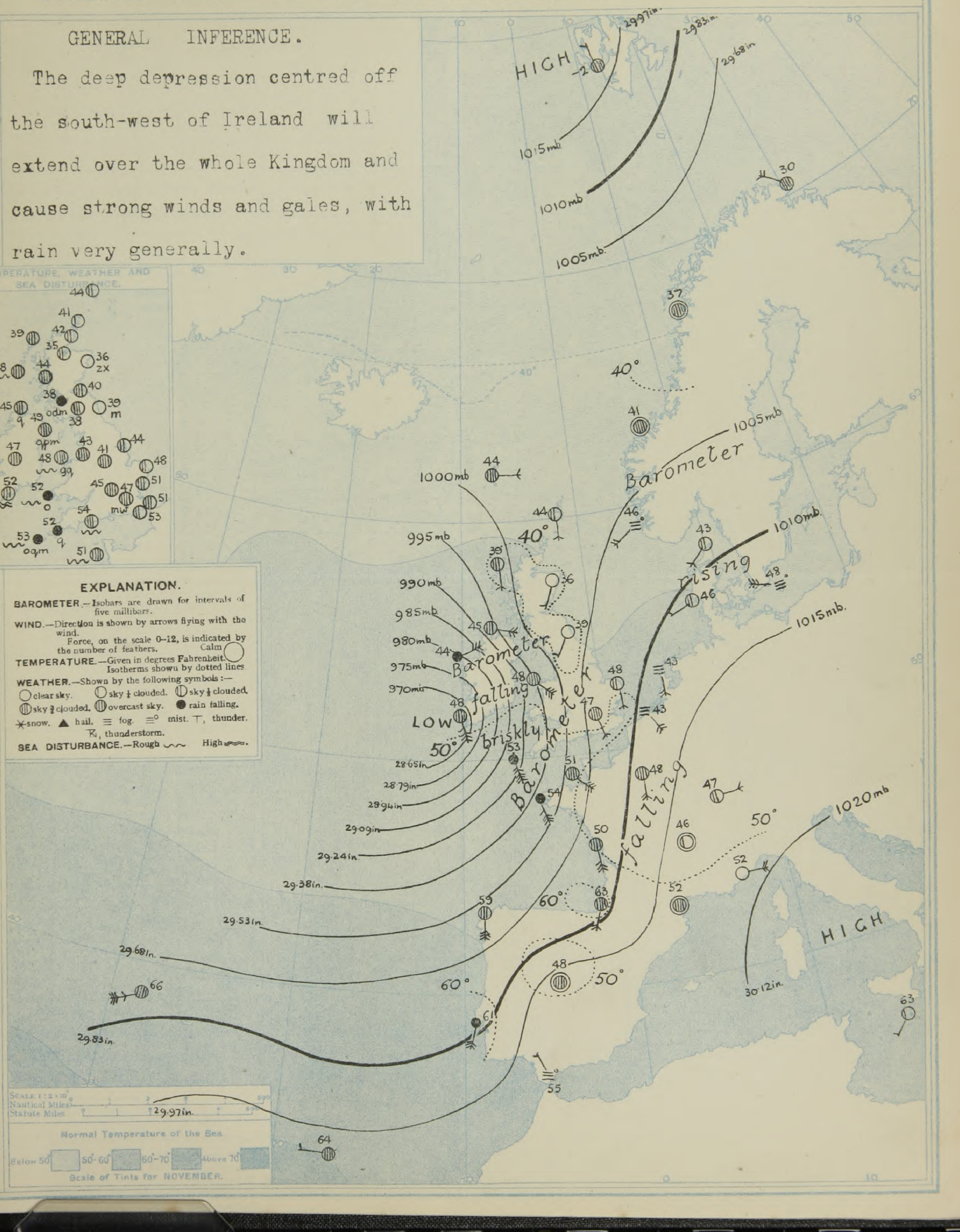
BAROMETER.—Isobars are drawn for intervals of five millibars.

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



Issue No. 20070. **DAILY WEATHER REPORT.** 3rd November 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...						1018·3	− 4	34	+ 11	S	5	0	—	×	23
	Gorki	1029·5	32	SW	2	0	1027·8	?	34	+ 7	SW	1	0	—	×	27
	Velieki Luki ...	1028·3	34	SE	2	0	1027·4	×	34	+ 2	S	2	0	6	×	32
	Hangö	1011·9	45	SW	7	0	1014·7	+ 3	45	− 1	WSW	4	0	3	×	37
	Riga	1021·3	45	SSW	3	b	1022·9	0	41	− 2	SW	1	0	—	×	39
	Petrograd ...	1019·9	37	S	4	0	1018·0	− 1	39	+ 7	SSW	4	0	2	39	32
	Moscow	1037·7	23	SSE	3	b	1033·2	− 3	30	+ 9	S	3	0	—	×	21
	Kiev	1034·9	34	SE	3	0	1034·6	0	34	+ 4	S	2	bc	—	×	30
	Kharkov ...	1038·9	28	E	2	b	1038·0	0	25	− 11	E	2	b	—	×	25
	Kishinev ...	1033·1	39	E	2	0	1032·8	0	37	0	E	2	0	—	×	36
	Elisabetgrad ...	1035·8	36	NE	3	0	1034·6	0	26	+ 6	E	2	0	—	×	30
	Nicolaiev ...	1034·3	39	ENE	2	0	1033·5	×	39	+ 3	NE	2	0	—	×	34
	Odessa	1033·3	39	NE	3	0	1033·1	0	41	+ 4	ENE	3	0	—	×	37
	Tarkhankout ...	1029·3	41	NNE	3	0	1030·3	×	43	+ 2	NE	4	0	—	×	41
	Soukhoum ...	1025·5	54	ENE	1	0	1024·6	?	50		—	0	0	—	×	?
MEDITERRANEAN.	Venice	1026·0	55	—	0	b	1024·3	×	50	+ 2	—	0	0	—	61	48
	Pesaro	1026·0	55	—	0	0	1024·7	×	54	+ 8	—	0	0	—	61	46
	Rome	1026·0	57	—	0	bc	1024·9	×	46	− 2	N	4	b	—	66	45
	Viesti	1028·8	55	—	0	b	1024·9	×	57	− 2	—	0	b	—	64	54
	Brindisi	1027·7	63	NW	1	b	1024·2	×	63	− 5	NW	2	b	—	74	63
	Cagliari	1023·6	64	SE	4	b	1021·0	×	57	0	NE	3	bc	—	61	40
	Palermo	1025·9	59	—	0	b	1024·3	×	63	+ 2	—	0	b	—	76	?
	Tripoli	1023·6	68	SSE	2	b	1022·6	×	64	+ 1	SSW	1	b	—	84	59
	Algiers	1020·2	66	—	0	b	1016·2	0	73	+ 9	WSW	3	c	—	79	64
SWEDEN.	Hernösand ...	9989	43	—	0	c	1006·1	×	39	− 6	—	0	b	×	×	×
	Stockholm ...	1009·2	45	SW	4	b	1013·0	×	45	− 1	S	2	0	×	×	×
	Wisby	1015·0	48	SW	4	b	1016·2	×	46	− 2	SSW	2	c	×	×	×

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

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	6	3	51	43	c.p.	bc	2·4
	Banff	-	-	50	40	bc	bc	4·8
	Montrose							
	Carnoustie	×	×					
	St. Andrews							
Engl. N.E.	Harrogate	Trace	-	51	40	b.bc	bc.c	3·5
	Skegness	Trace	4	51	41	ow.c	b.bc.b	3·0
Engl. N.W.	Morecambe							
	Southport	1	4	51	41	b.bc	or.c	1·1
Midlands.	Leamington Spa							
	Malvern	-	Trace	52	42	b	bc.c	4·0
	Ross-on-Wye	-	1	56	42	bcpt	bc b	3·4
Wales.	Rhyl	-	1	54	39	bc c	o c bcp	0·9
	Colwyn Bay	×	×	51	44	c	o.bc	1·4
	Llandudno	×	×	53	42	cr	rc	0·2
	Aberystwyth	×	×	53	44	r.o.c	c o	0·5
	Tenby	2	1	56	46	bcp	bc	2·3

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	2	-	54	44	o.f.c	c.bcz	2·3
	Felixstowe	3	-	53	44	f.bcm	bc	2·4
	Walton-on-Naze							
	Southend-on-Sea	1	-	59	43	o.c.bc	c.bc.b	2·5
England. S.E.	Margate	10	-	58	49	c	bc.b.bc	2·7
	Ramsgate	13	-	56	48	bc	bc	2·9
	Hastings	22	Trace	57	49	or.bc.b	vp.bc	3·5
	Eastbourne	29	Trace	57	48	vp.bc	b.bcp	3·4
	Seaford	×	×	58	47	c.r	c	3·9
	Brighton	5	4	57	48	a.p	cp.bc	3·6
	Worthing	4	1	57	44	c.bc	bcr.bc	2·5
	Littlehampton	3	Trace	56	48	o.bc	bc.o	3·4
	Bognor	×	×	55	45	bcp	bcp	3·7
	Bournemouth	2	1	55	41	c	bc.b	6·2
England. S.W.	Weymouth	×	×	58	48	bcp.	p.bc	3·6
	Torquay	2	-	56	42	bc.b	b.	7·5
	Paignton	×	×	57	? 43	bc	bc	7·3
	Penzance	2	1	55	45	bc	bcz	6·8
	Newquay	1	1	54	41	b	b	7·1
	Bude	1	1	55	42	ba	bc.c.	6·0
	Ilfracombe	1	3	53	46	r.c	c	0·0
	Weston-s-Mare	-	-	55	41	b	bp.bc	5·5

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

3rd & 4th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.54 / 6.56	11.37 / 11.37	4.28 / 4.26
Greenwich	6.59 / 7.1	11.44 / 11.44	4.29 / 4.27
Wick	7.35 / 7.38	11.56 / 11.56	4.17 / 4.14
Valencia	7.41 / 7.43	12.25 / 12.25	5.9 / 5.7

NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally; 23mm. at Valencia. Temperature rose to about 55° in many parts of England. Bright sunshine varied greatly; in the south-west several hours were 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 309. {Saturday 4th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	999·4	46	S	4	o	983·3	-2.	49	+5	SSE	4	–	om	4	11	50	44	bc	bc	ogr	*
	Deerness (Orkney)	993·9	48	SE	7	oug	977·3	*	47	+6	SSE	7	–	og	6	12.	50	46	b.bc.o	c.oug	or.og	2·2.
	Stornoway ...	984·3	47	ESE	7	org	970·0	-4	48	+9	SE	7	–	og	6	5	50	39	c.og	org	c.og	0·0.
	Castlebay (Barra Isd.)	977·6	?49	ENE	7	op	962·1	-6	50	+2.	SE	6	–	r	7	19	51	45	op	op	op.r	0·0
	Glasgow ...	983·2	45	SE	2	c	976·4	+1	48	+10	SSW	5	S	cu	*	8	48	38.	omdp	op.c.	cjpqp	0·0.
	Eskdalemuir ...	985·2	45	SSE	2	o	980·6	+2.	46	+8	S	7	–	or	*	20	46	37.	c.omr	or,o.	ou.c.or	0·0.
	Malin Head ...	967·7	45	S	8	cmqp	966·5	+3	48	+3	S	8	S	cqp	8	3	48	39	ogq	bmqp	cqp	1·1
	Blacksod Point	949·3	49	S	9	omqr	974·2	+9	48.	+4	WSW	8	–	omqp	7	9	49	44	cmqp	omq.	omqp	*
	Valencia ...	973·6	49	SW	7	c	985·0	+3	47	-1	SW	4	–	bc	5	7	51	47	or.c	op c.	cp.o.c	0·0
	Roche's Point							*														*
	Birr Castle ...	970·7	47	SW	5	r	982·3	*	46	-1	SW	5	–	c	*	19	50	45	org	org	org c.	0·0
	Donaghadee ...	977·2	49	S	7	omqp	977·4	+5	45	-4	SSW	6	SW	bcq	5	7	52	39	omqr	omqp	om.bcq	*
	Liverpool (Bidston)	987·7	46	S	3	bc	987·7	+2	47	+4	SE	2	SE	c	2	1	50	43	qp	o	bc	0·0
	Holyhead ...	982·7	51	SSW	8	qgq	985·1	+4	51	+3	SW	8	SW	cq	7	3	54	48.	op.cqp	cgqp	op.cqp	0·5
	Pembroke (St. Ann's)	986·1	51	SSW	8	bc	989·7	+2.	51	-1	SW	7	W	bcq	6	8	53	48.	bcqp	bcq	bcq	0·2.
	Scilly (St. Mary's)	991·3	50	WSW	6	cqp	992·5	-1	50	-3	WSW	3	SW	c	5	2	53	46	omqp	omqp	bc.cqp	0·0
	Falmouth ...	992·1	51	SW	6	cq	993·4	0	47	-5	SW	2	–	b	*	11	53	46	rq.o	cq.oqp	cp.bc.b	0·0
	Jersey (St. Aubin)	996·3	52.	WSW	4	or	997·7	*	52.	+1	SW	3	SW	b	3	14	57	49	oguqp	oguq.r.	ogr.s.b	0·0
	Portland Bill ...	993·3	55	WSW	5	o	994·9	+1	53	-1	SW	5	SW	bc	8?	4	56	50	c.or	o.	o.cp.bc	*
	Dungeness ...	997·2	53.	SSW	8	r	996·9	+1	54	+1	SSW	4	SW	bc	4	7	55	49	c.o.c	c.or.	cqp.bc	*
	Dover	998·2	52	S	6	r.	998·5	+2	52	+1	SSW	4	S	bc	4	5	55	47	c	c.bc.c.or.	opr.c	0·5
	Wick	991·8	49	SE	7	o	976·3	-3	48	+6	SSE	7	–	o	6	5	49	38	bc.c	comqp	qr.bcq	*
	Nairn	986·3	46	E	3	ou	973·1	*	46	+11	SSE	1	NE	cq	1	2	47	34	q.oq	q.op.	qp.o	0·0
	Aberdeen	989·4	48	SE	7	org	978·4	-4	47	+11	SSE	6	–	cqp	5	13	51	35	bcq c.o	org.	org	0·0
	Leith	984·5	48	SE	2	r	977·8	-1	49	+9	SW	4	SW	c	4	6	50	40	c.op.o	r	r.o.bq.c	*
	Tynemouth ...	988·4	49	SE	7	omqr	984·7	0	45	+6	S	5	SW	bcmq	4	1	49	39	omqp	omqr.	bcmqp	*
	Spurn Head ...	990·5	49.	S	8	o	991·6	0	45	+1	S	5	–	bcq	5	1	50	42	c.oq	oq	o.cqr	0·0
	Yarmouth ...	996·8	53	SSW	8	ogr	996·4	+2.	47	-1	SSW	3	–	bc	4	10	54	45	odq	odq	omr.bc	0·0
	Clacton-on-Sea	997·3	53.	SSE	6	o	997·0	+1	50	-1	SSW	4	S	bc	3	7	53	49	c.o	ogp	ogr.bc	0·0
	Nottingham ...	991·3	49	S	3	o	991·5	*	44	+3	SSW	3	SW	bc.	*	1	51	40	or	r.o	op	0·0
	Benson (Oxon.) ...	993·6	49	S	3	o	995·1	+3	42	-3	S	4	–	b	*	2.	52	36	oqp	ovr.o.	bc.b	*
	Sth Farnborough	994·8	49	SSE	4	r	995·7	+2	44	-3	S	4	–	b	*	9	53	43	or	r	r.o.bc	0·0
	London (Kew Obsy.)	994·5	53	SSW	4	od	996·3	+2.	45	-2	S	2	W	bm	*	13	53	42	omu.op.or	oru.or.od	od.or.bm	0·0
NORTHERN EUROPE.	Spitsbergen ...	1017·9	-8	SE	1	b	1018·9	+2	-9	-7	–	0	*	b	*	*	-2	-11				
	Vardö	1008·3	25	–	0	b	1012·3	+3	19	-11	W	4	–	s	4	*	30	25				
	Bodö	1009·3	34	N	4	c	1014·6	+1	27	-10	E	1	–	b	1	–	37	23				
	Christiansund ...	1007·8	43	–	0	o	1002·6	-4	41	0	E	2	–	o	3	1	45	37				
	Skudesnaes ...	1005·5	46	SSE	4	c	992·0	-6	48	+2	ESE	7	–	r	4	1	48	43				
	Færder (Xtiania Fjord)	1010·7	44	–	0	f	1005·3	-4	45	+2.	SE	6	–	o	3	–	43	41				
	The Scaw (Skagen)	?1010·9	48.	SW	1	c	1004·6	-3	48	+5	SE	5	–	o	5	–	50	43				
	Blaavands Huk	1009·5	46	SSE	3	o	999·0	-4	48	+2.	W	5	–	o	5	–	50	45				
	Copenhagen ...	1014·7	46	WSW	2	o	1007·8	-3	48	+3	ESE	5	–	o	*	–	50	45				
	Bornholm ...	1016·0	46.	SSW	2	o	1011·4	-3	46	-2.	SSE	7	–	m	2	–	48	43.				
FRANCE, &c.	The Helder ...	1003·1	50.	SE	4	c	998·1	+1	52	+9	SSW	4	–	r	2	5	52	43.				
	C. Gris Nez ...	999·1	54	SW	6	r	998·9	+1	50	+4	SSW	4	*	c	4	12.	55	50				
	La Hève	?	48.	S	5	r	?	*	46	-1	SW	4	*	b	3	4	57	43.				
	Brest (St. Mathieu)	997·2	52.	SW	4	o	994·6	-1	54	0	S	4	*	o	5	2	55	50.				
	Rochefort (Ile d'Aix)	1000·6	60	SSW	5	c	1001·5	0	54	+4	SSW	1	*	o	*	Trace	63	54				
	Biarritz												*									
	Paris	1003·3	55	SSE	3	bc	1001·7	+2	55	+7	S	2	–	e	*	1	59	48				
	Belfort	1011·8	50	E	4	c	1010·3	*	50	+3	E	2	*	o	*	–	57	47.				
	Lyons	1009·2	59	S	3	c	1008·3	*	59	+13	S	2	*	o	*	–	62	58				
	Nice	1017·1	57	E	3	bc	1015·1	-2.	56	+4	E	3	*	r	3	Trace	64	50				
	Perpignan ...	1007·0	61	S	3	bc	1005·7	0	54	+2.	E	1	SW	c	*	–	68	52.				
	Sanguinaire ...	*	63	N	3	bc	*	*	56		SE	3	*	o	3	–	66	52				
SOUTHERN STATIONS.	Corunna	1002·3	54	WNW	2	r	989·0	-2.	61	+2.	SSE	8	–	r	5	3	66	54.				
	Madrid	1013·1	50	SSE	1	r	1009·3	0	54	+6	SW	1	-	o	*	13	54	52				
	Lisbon																					
	Azores (Horta) ...	1003·5	*	W	9	bc	1017·1	+4	57	-9	N	4	*	c	2	1	70	57.				
	Madeira	1015·5	70	W	2	r	1015·3	+2.	70	+6	W	1	NW	o	2	–	72	70				
	Gibraltar	1015·2	65	W	5	o	1014·2	*	66	+11	W	5	*	c	4	–	71	54				
	Malta	*	*	*	*	*	1014·3	+2	66	+3	–	0	W	c	0	–	70	63				
	Limassol	*	*	*	*	*	1010·6	+2	68	-7	NE	3	–	bc	5	3	81	59				
	Alexandria ...	1010·3	70	NNE	4	b	1013·3	+1	68	+5	NNE	4	N	r	3	–	75	61				
	Cairo (Helwan) ...	1009·3	66	W	2	o	1013·1	+4	61	-2	SSE	1	S	bc	*	?	75	59				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at ...7.15....

1,050 metres	SW	17 metres per sec.
900 "	SW	14 " " "
600 "	SW	12 " " "
300 "	SW	11 " " "
Surface	SSW	6 " " "

GALES.

Lerwick
3rd 11p.m - 4th 4a.m SSE 8
Ex. SSE 10 at 1a.m

Deerness
3rd 11p.m. SE 8

Stornoway
3rd during afternoon Squalls ESE 8

Eskdalemuir
3rd Noon Gust E 20 mps
3rd 2pm SSE 8 Gust 25 mps.

Malin Head
3rd 9a.m - 4th 7a.m E - S 8
3rd 11a.m to 1p.m E 9

Blacksod Point
3rd 7.16a.m - 5.30p.m E 8
3rd 5.30p.m - 9p.m S 8 Ex. S qst 6pm
3rd 9pm - 4th 7am WSW 8

Valencia
3rd 9.30a.m S 8
3rd 1p.m SW 8

Donaghadee
3rd 11a.m - 2p.m SE 8

Holyhead
3rd 9.30a.m SSE to Gust 30 mps
3rd afternoon - 4th 7a.m SSW 8
Gust SSW 23 mps in afternoon
3rd 9p.m SSW 9 Gust 30 mps.

Pembroke
3rd 7a.m - 10a.m SSE 8
3rd 10a.m - 4th 4a.m SSW 8

Scilly
3rd 7p.m - 8p.m SSE 8
Ex SSE 9 at 7p.m
3rd 4p.m Gust WSW 24 mps.

Portland Bill
3rd 8a.m - 2p.m SSE 8

Dungeness
3rd 5p.m - 11p.m SSW 8

Wick
3rd 6p.m - 11p.m SE 8
Ex SE 9 at 10p.m.

Aberdeen
3rd 5p.m Gust SE 22mps.
3rd 7p.m " SE 23 mps.
4th 7a.m " SSE 20 mps.

Spurn Head
3rd 2p.m - 6p.m S 8

Yarmouth
3rd 6p.m SSW 8.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	94	87	0·0	53	43	35	18	o	or	or.bc.b
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	92	86	0·0	54	45	35	16	o.or	or	or.bc.
CAMDEN SQ. (British Rainfall) ..	90	82	0·0	53	45	40	17	cm.o	or	*
HAMPSTEAD (Reservoir)	*	83	0·0	52	43	29	17	o.or	or	or.bcx
S. KENSINGTON (Museum Grounds)	*	93	0·0	54	46	36	16	bq.c.o	or	omd.bc.
RICHMOND PARK	*	*	0·0.	*	*	*	*	*	*	*

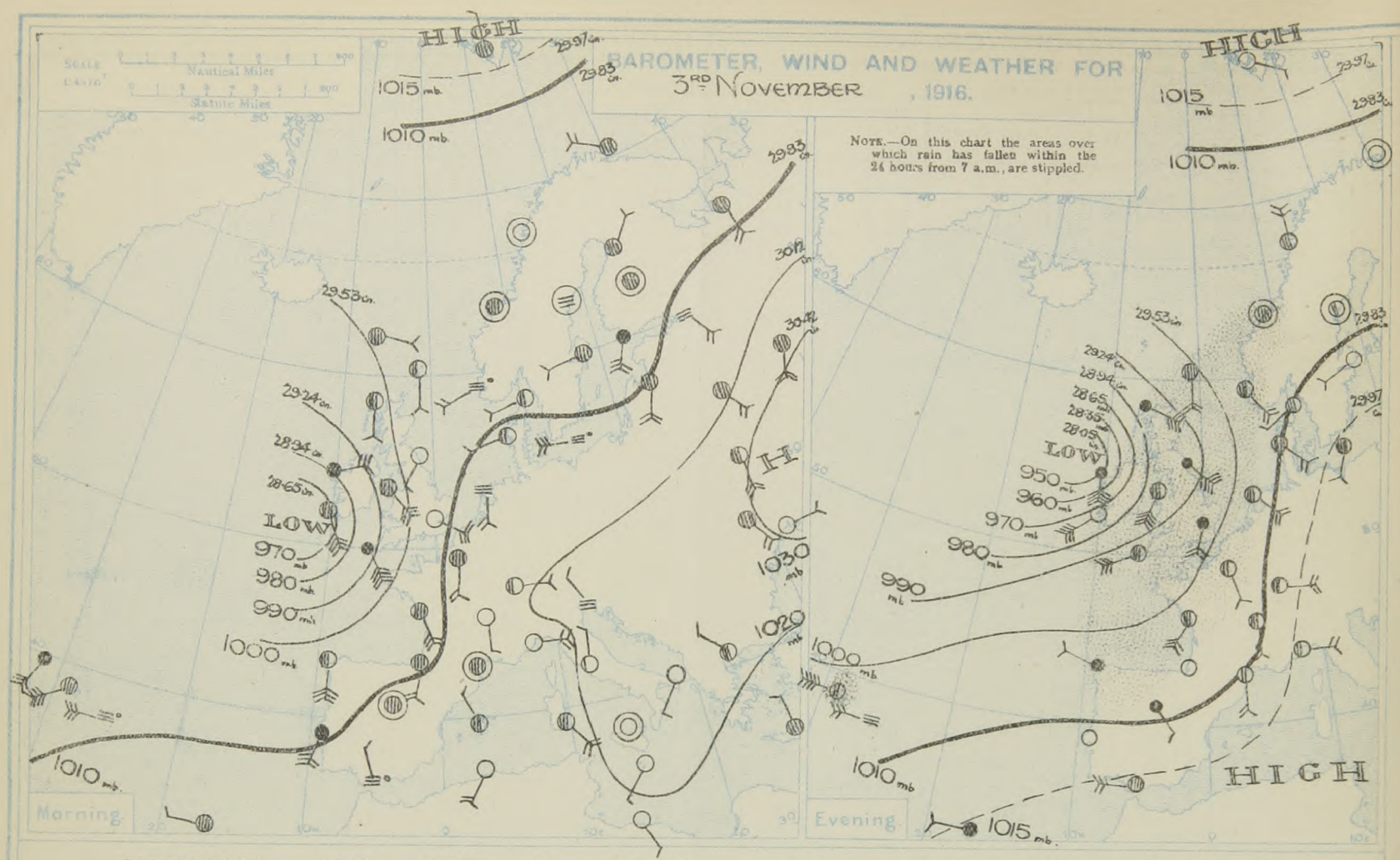
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

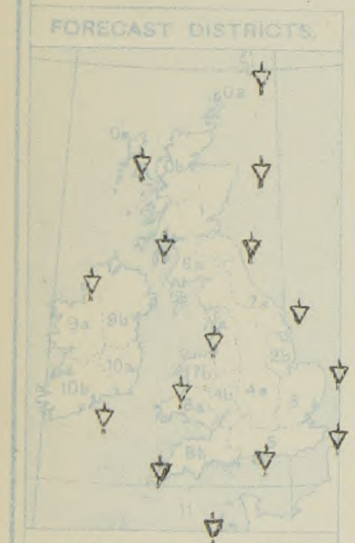
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
233	12·1	27

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON 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 Coue.
North Cone.	North Coue.

South Cone hoisted y'day morning.

Western Channel and Bay 11 } Southerly or South-Easterly winds, moderate to fresh or strong; sea rough; changeable, showery.

0a, 0b } Wind mainly Southerly, strong or high, then moderating; changeable, some showers and squalls; moderate temperature.

1, 2a, 2b, 3, 4a, 4b } Wind from some Southerly point, decreasing gradually; variable sky, some showers; moderate temperature.

5, 6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b } Wind mainly between South and South-West, decreasing in force; changeable, showery, squally; moderate temperature.

FURTHER OUTLOOK.

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

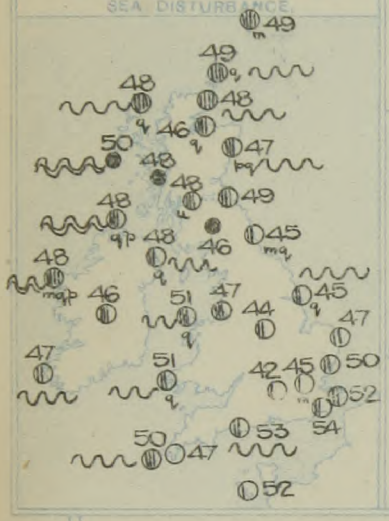
NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 4TH NOVEMBER, 1916.

GENERAL INFERENCE.

There are no indications of a change to more stable weather conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High≈≈.

HIGH 1015 mb 29.97 in

29.83 in 29.68 in 29.53 in 29.38 in 29.24 in 29.09 in 28.94 in 28.79 in 28.65 in 28.50 in

Barometer falling

LOW 965 mb 970 mb 975 mb 980 mb 985 mb

Barometer rising generally

LOW 990 mb 995 mb 1000 mb 1005 mb 1010 mb 1015 mb

60° Bar. falling

40° 50° 60°

HIGH

Scale 1 : 2·70
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 50 | 50°-60° | 60°-70° | above 70°
Scale of Tints for NOVEMBER.

Issue No. 20071 — DAILY WEATHER REPORT. — Saturday, 4th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1009.0	37	S	6	r	1008.8	?	37	+ 3	S	3	c	–	*	34
	Gorki						1022.9	?	36	+ 2	S	5	c	2	*	28
	Velieki Luki	1015.1	39	–	0	o	1018.9	*	37	+ 3	SSE	3	o	–	*	34
	Hangö	1011.1	45	SSW	2	r	1003.4	– 5	45	0	SSW	5	r	16	*	43
	Riga	1016.8	46	SSW	4	o	1010.0	– 4	54	+ 13	SSW	4	o	–	*	43
	Petrograd	1018.3	43	SSE	4	o	1011.4	– 5	39	0	SSE	3	f	–	45	39
	Moscow	1031.5	34	SW	3	o	1029.6	– 2	36	+ 6	SSW	3	o	6	*	30
	Kiev	1032.4	36	SE	3	b	1030.0	0	32	– 2	SE	3	o	–	*	30
	Kharkov	1037.1	30	E	2	b	1037.2	0	25	0	–	0	b	–	*	25
	Kishinev	1027.0	37	–	0	b	1027.9	– 2	39	+ 2	SE	3	o	–	*	34
	Elisabetgrad	1034.0	36	E	3	b	1032.9	0	27	– 9	ESE	2	b	–	*	25
	Nicolaiev	1032.2	37	–	0	b	1031.3	*	30	– 9	E	1	b	–	*	30
	Odessa	1032.6	43	SE	2	b	1031.0	0	36	– 5	ENE	2	o	–	*	36
	Tarkhankout	1029.9	43	NNE	1	o		*							*	
	Soukhoum														*	
Mediterranean.	Venice	1021.4	50	–	0	b	1020.4	*	48	– 2	–	0	f	–	57	48
	Pesaro	1022.6	57	–	0	o	1020.7	*	52	– 2	–	0	o	–	61	50
	Rome	1022.2	57	–	0	o	1020.9	*	48	+ 2	N	1	b	–	66	46
	Viesti	1022.2	57	–	0	b	1021.2	*	59	+ 2	N	1	bc	–	64	51
	Brindisi	1021.4	61	N	1	b	1020.1	*	54	– 9	–	0	b	–	64	55
	Cagliari	1020.9	66	NE	3	b	1018.2	*	63	+ 6	SE	4	c	–	70	57
	Palermo	1023.1	61	ESE	1	b	1020.6	*	61	– 2	–	0	b	–	72	50
	Tripoli	1021.7	66	?	1	b	1019.9	*	63	– 1	SSW	2	b	–	77	57
	Algiers	1017.3	68	NW	4	b	1016.0	+ 1	64	– 9	SW	3	b	–	81	63
Sweden.	Hernösand	1004.3	39	–	0	o	1003.1	*	32	– 7	–	0	f	×	×	×
	Stockholm	1009.1	46	SSW	2	o	1005.6	*	41	– 4	WSW	2	o	×	×	×
	Wisby	1010.3	46	SW	2	o	1007.5	*	45	– 1	WNW	4	b	*	×	×

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

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h. Mm.	Rainfall. Day. 9h-18h. Mm.	Temperature. Max. F.	Temperature. Min. F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
Scotland.	Oban	1	4	48	41	o bc p o	o	0.0
	Banff	–	3	47	35	bc c	c. or	0.0
	Montrose							
	Carnoustie	*	*					
	St. Andrews	–	4	49	32	op	op	0.0
Eng. N.E.	Harrogate	Trace	4	48	34	or	or	0.0
	Skegness	Trace	Trace	52	36	og	p om u	0.0
Eng., N.W.	Morecambe	–	3	52	41			0.0
	Southport	Trace	1	50	37	or	r o.c.o	0.0
Midlands.	Leamington Spa							
	Malvern	Trace	4	50	42	op	p. o	0.0
	Ross-on-Wye	Trace	1	51	41	od	od	0.0
Wales.	Rhyl	1	1	52	40	cp	p. bc	0.1
	Colwyn Bay	*	*	51	41	p c	p. bc	0.1
	Llandudno	*	*	53	42	r	r. p. c	0.0
	Aberystwyth	*	*	53	45	r o c	c o	0.0
	Tenby	*	*	55	47	bc or	o	0.0
		7	2					

	STATIONS.	Rainfall. Night. 18h-9h. Mm.	Rainfall. Day. 9h-18h. Mm.	Temperature. Max. F.	Temperature. Min. F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
England. E.	Lowestoft	1	Trace	53	40	o c o	op	0.2
	Felixstowe	–	Trace	54	42	oq	oqp	0.0
	Walton-on-Naze							
	Southend-on-Sea	–	1	53	43	o c	o cr	0.2
England, S.E.	Margate	–	1	56	44	c	c. or	0.3
	Ramsgate	–	–	55	42	o c	c. or	0.8
	Hastings	1	1	56	47	op o	c. or	0.0
	Eastbourne	Trace	1	57	50	o bc	op	0.0
	Seaford	*	*					
	Brighton	–	2	57	45	o	or	0.0
	Worthing	1	3	54	42	o c	or	0.0
	Littlehampton							
	Bognor	*	*	56	49	or	or	0.0
	Bournemouth	–	6	55	42	or	o	0.0
England. S.W.	Weymouth	*	*	55	50	op	p o	0.0
	Torquay	*	*					
	Paignton	*	*	54	34	r c	c	0.0
	Penzance	14	–	54	49	or c	c o	0.1
	Newquay	9	9	53	42	rq bc	bcp	0.0
	Bude	4	6	65	40	or	or	0.0
	Ilfracombe	1	4	51	46	or	or	0.0
	Weston-s-Mare	1	5	51	41	rq c	cr. c	0.0

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

4th & 5th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.56 / 6.58	11.37 / 11.37	4.18 / 4.16
Greenwich	7.1 / 7.3	11.42 / 11.44	4.27 / 4.25
Wick	7.38 / 7.40	11.56 / 11.56	4.14 / 4.12
Valencia	7.43 / 7.45	12.25 / 12.25	5.7 / 5.5

NOTES ON YESTERDAY'S WEATHER.

Temperature again rose to about 55° at most English stations. Rain fell very generally; 20 mm. at Eskdalemuir. 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; z. hoar frost; z. dust-haze, or smoke.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 310. { Sunday, 5th November

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	9800	50	S	6	oq	9840	+1	48	-1	SSE	5	-	om	5	2	50	47	omp q	omp q	bcom	*
	Deerness (Orkney)	9770	50	S	6	bq	9797	*	49	+2	E	4	-	r	4	Trace	51	47	ocq	c.bc.b	bbccor	0.3
	Stornoway ...	9749	48	WSW	6	cpq	9775	-3	44	-4	N	2	-	o	2	6	51	41	opq	o.cpq	bcop	0.0
	Castlebay (Barra Isd.)	9787	50	SW	4	c	9762	-3	49	-1	N	3	-	o	3	0.4	51	45	r.opcp	cp.ac	cbcbo	0.8
	Glasgow ...	9840	47	SSW	4	c	9722	-6	44	-4	ENE	4	SE	cq	*	10	49	43	cq p	cq	omoqr	0.6
	Eskdalemuir ...	9860	45	S	4	c	9725	-3	47	+1	SE	4	SE	c	*	q	48	41	or.oor	o.c.b.c.	c.or.oc	0.1
	Malin Head ...	9805	48	S	4	bcq	9720	-5	45	-3	E	8	.	omrq	6	3	50	42	bcqp	bcqp	omrq	3.1
	Blacksod Point	9795	47	S	2	cp	9739	-2	48	0	N	5	N	cmq	4	10	51	44	bcqp	bcp	ompor	*
	Valencia ...	9759	46	ENE	3	o	9733	+4	49	+2	N.	4	N	o	4	14	51	45	c.o	o	opr.o	0.0
	Roche's Point	9762	46	NE	4	r	9675	*	45	-4	NNW	6	-	o	5	21	53	44	c.o	or	r.o.	*
	Birr Castle ...	9806	46	SW	1	o	9686	*	42	-4	NW	2	-	r	*	14	51	42	bc	c.o	or	1.6
	Donaghadee ...	9835	46	SW	3	ogm	9688	-4	50	+5	E	5	-	omrq	4	9	52	45	bcq	bc	omrq	*
	Liverpool (Bidston)	9854	48	ESE	3	o	9684	-1.1	49	+2	ESE	5	SE	cq	4	4	52	46	b.bc	o	r.o.c	0.9
	Holyhead ...	9833	49	SSE	5	og	9656	-3	51	0	E	5	S	og	4	7	54	48	cop cq	cp.og	opr.bc	1.4
	Pembroke (St. Ann's)	9783	50	ESE	5	o	9599	0	50	-1	ESE	4	-	rod	4	8	55	48	bc.c	cp	oroqp	0.0
	Scilly (St. Mary's)	9681	54	SE	7	omqp													cqp	omqr		
	Falmouth ...	9723	54	SE	8	ogq	9577	0	51	+4	W	3	W	bc	*	13	56	46	c	cqorq	drmqc	0.8
	Jersey (St. Aubin)	9818	58	SE	6	o	9745	*	53	+1	SSW	7	-	ogw	5	2	58	49	bc.o	ogwp	copho	1.8
	Portland Bill ...	9805	52	ESE	6	or	9661	-10	53	0	S	10	S	or	8	6	56	50	bc.c	or	cqr	*
	Dungeness ...	9893	57	SE	5	c	9801	-1	55	+1	SSW	9	SW	c	8	5	58	54	bc	bc	c.orcq	*
	Dover	9895	57	SE	5	c	9818	0	52	0	S	7	S	c	6	3	59	50	bc.c	c.bc.c.	c.orq.c	3.7
	Wick	9777	50	SSW	4	c	9793	-5	49	+1	ESE	3	-	r	4	2	51	47	omrq	o.cq	gc.omr	*
	Nairn	9773	48	WSW	4	bcq	9767	*	43	-3	-	0	-	ogr	1	3	53	42	c.bcq	bcq	bc.cp	4.6
	Aberdeen	9834	49	SW	4	bc	9745	-10	49	+2	NE	4	-	r	4	17	52	46	cop q	cq. bc	bc or	0.7
	Leith	9843	48	SW	2	bc	9721	-4	48	-1	E	3	-	o	4	14	52	45	c. bc	bc	c.oro	*
	Tynemouth ...	9877	48	SSW	3	bcmq	9743	-2	50	+5	SSE	3	SE	bcm	4	7	52	45	bcmq	bcmq	omr	*
	Spurn Head ...	9904	49	S	5	bcq	9757	-1	49	+4	S	6	-	oq	6	5	52	45	bcq	bcq	c.oq	4.2
	Yarmouth ...	9924	53	S	4	cp	9809	0	54	+7	S	8	-	bcq	6	3	56	46	bc	bc.c	bc.c	6.2
	Clacton-on-Sea	9913	53	ESE	4	o	9812	0	54	+4	SSE	6	S	bc	6	6	56	50	bc.	bc.c.a	ogrc	4.1
	Nottingham ...	9883	48	E	2	o	9736	*	51	+7	SSE	6	S	bc	*	4	54	44	bc	bc.c	or	4.9
	Benson (Oxon.) ...	9854	50	SE	4	r	9718	-3	50	+8	SE	7	-	r	*	5	55	42	c.o.	op	orq	*
	Sth Farnborough	9863	52	SSE	3	r	9741	-6	52	+8	SSE	6	-	o	*	13	56	44	c.bbc	cr.or	r.or	4.5
	London (Kew Obsy.)	9871	53	ESE	3	o	9761	-4	52	+7	S	5	-	orq	*	8	57	44	bmaor	abcodo	o.orqp	3.9
NORTHERN EUROPE.	Spitsbergen ...	1021.0	-11	SE	1	b	1024.2	+1	-11	-2	S	2	*	b	*	*	-8.	-13.				
	Vardö	1019.3	18	SW	2	b	1011.7	-6	23	+4	SE	2	-	o	3	*	23	18				
	Bodö	1001.0	34	E	6	b	997.3	-2	32	+5	NW	1	-	o	1	?	34	27				
	Christiansund ...	9926	48	-	0	c	9936.0	+1	46	+5	SE	2	-	o	3	-	50	41				
	Skudesnaes ...	9939	50	SE	6	c	988.3	-6	52	+4	ESE	7	-	c	3	?	23	48				
	Færder (X'tania Fjord)	9998	48	SSE	3	m	9987	-1	48	+3	SE	2	-	f	2	10	48	45				
	The Scaw (Skagen)	10063	50	SSE	4	r	9972	-2	48	0	SE	4	-	c	5	3	50	46				
	Blaavands Huk	9994	50	SSW	1	f	991.4	-4	50	+2	SE	4	-	o	4	2	52	46				
	Copenhagen ...	10046	50	S	2	o	10060	-2	48	0	SSE	5	-	c	*	-	50	46				
	Bornholm ...	10063	48	S	9	m	10037	+2	46	0	SE	7	-	m	2	-	48	45				
FRANCE, &c.	The Helder ...	9962	52	SE	2	bc	9873	+3	54	+2	S	5	-	r	3	1	55	50				
	C. Gris Nez ...	9907	57	SE	3	o	9838	0	50	0	S	5	*	b	5	6	57	50				
	La Hève	9844	52	SSE	5	r	9786	*	50	+4	SSW	7	*	o	6	11	57	43				
	Brest (St. Mathieu)	9697	55	S	8	o	971.5	+5	52	-2	SW	10	*	r	?	15	57	50				
	Rochefort (Ile d'Aix)	9871	61	S	7	c	9920	0	55	+1	WSW	8	*	r	*	1	63	52				
	Biarritz	9918	68	SSW	4	c	9770	+2	57	-	SSW	5	*	bc	5	-	70	57				
	Paris	9909	63	SE	4	bc	991.2	+1	52	-3	S	4	-	b	*	2	64	52				
	Belfort	10033	52	E	6	bc	1001.2	*	46	-4	W	6	*	r	*	2	56	46				
	Lyons							*					*		*							
	Nice	10117	59	-	0	r	10042	0	59	+3	WSW	7	*	f	6	66	63	55				
	Perpignan ...	9994	66	S	5	o	999.1	+3	54	0	SW	1	SW	bc	*	-	72	54				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	10027	55	SW	2	o	1010.1	+4	46	-8	WSW	3	SW	c	*	7	59	45				
	Lisbon	10084	61	WSW	6	o	1013.1	+3	59	-	WSW	4	NW	o	8	-	66	55				
	Azores (Horta) ...	10197	*	WNW	5	bc	10197	0	63	+6	SW	6	*	o	3	-	66	59				
	Madeira	1015.9	72	W	3	r	10207	+3	64	-6	NW	2	-	bc	2	-	73	64				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1017.0	+1	66	0	-	0	-	b	0	-	75	64				
	Limassol	*	*	*	*	*	1014.4	+3	57	-1	SE	2	-	b	3	-	79	50				
	Alexandria ...	1015.5	70	N	3	bc	1018.1	+2	63	-5	S	1	-	r	1	2	75	63				
	Cairo (Helwan) ...	1015.0	68	NW	2	c	1018.6	+3	64	+3	-	0	-	b	*	Traces	75	57				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	74	81	4.4	57	49	46	10	c. o.	or	orqp
CITY (Bunhill Row)	*	*	2.6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	78	82	2.7	58	50	45	8	urbc	bcro	ur
CAMDEN SQ. (British Rainfall) ..	86	78	2.1	54	49	47	9	bm.o	or	*
HAMPSTEAD (Reservoir)	*	81	2.4	55	47	35	11	or	org	org.
S. KENSINGTON (Museum Grounds)	*	76	2.5	57	50	46	9	baqvor	orq	o
RICHMOND PARK	*	*	2.7	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
377	11.1	40

Temperatures at Greenwich and Camden Square are from Glaisher screens.

~: Gales :~

Stornoway: afternoon of 4th squalls. W.S.W. 8.

Eskdalemuir: 13h of 4th Gust. S.S.W. 21 m.p.s.

Malin Head: 4th & 5th S.8. 7h – 15h. SW.9 @ 13h E.8. @ 7h of 5th

Blacksod Point: 4th W.S.W. 8. 7h – 9h.

Holyhead: 4th S.W. 8 @ 7h.

Scilly: 4th S.E. 8. 16h – 18h

Falmouth: 5th S.S.W. 9 1h – 4h.

Jersey: 5th S.8. midnight – 7h.

Portland Bill: 4th – 5th S.9. 22h – 7h. S.10 @ 7h. of 5th

Dungeness: 5th S.9. 4h – 7h.

Dover: 5th S.9 @ 6h.

Aberdeen: 4th S. 19 m.p.s @ 13h.

Gorleston: 5th S.8 6h – 7h.

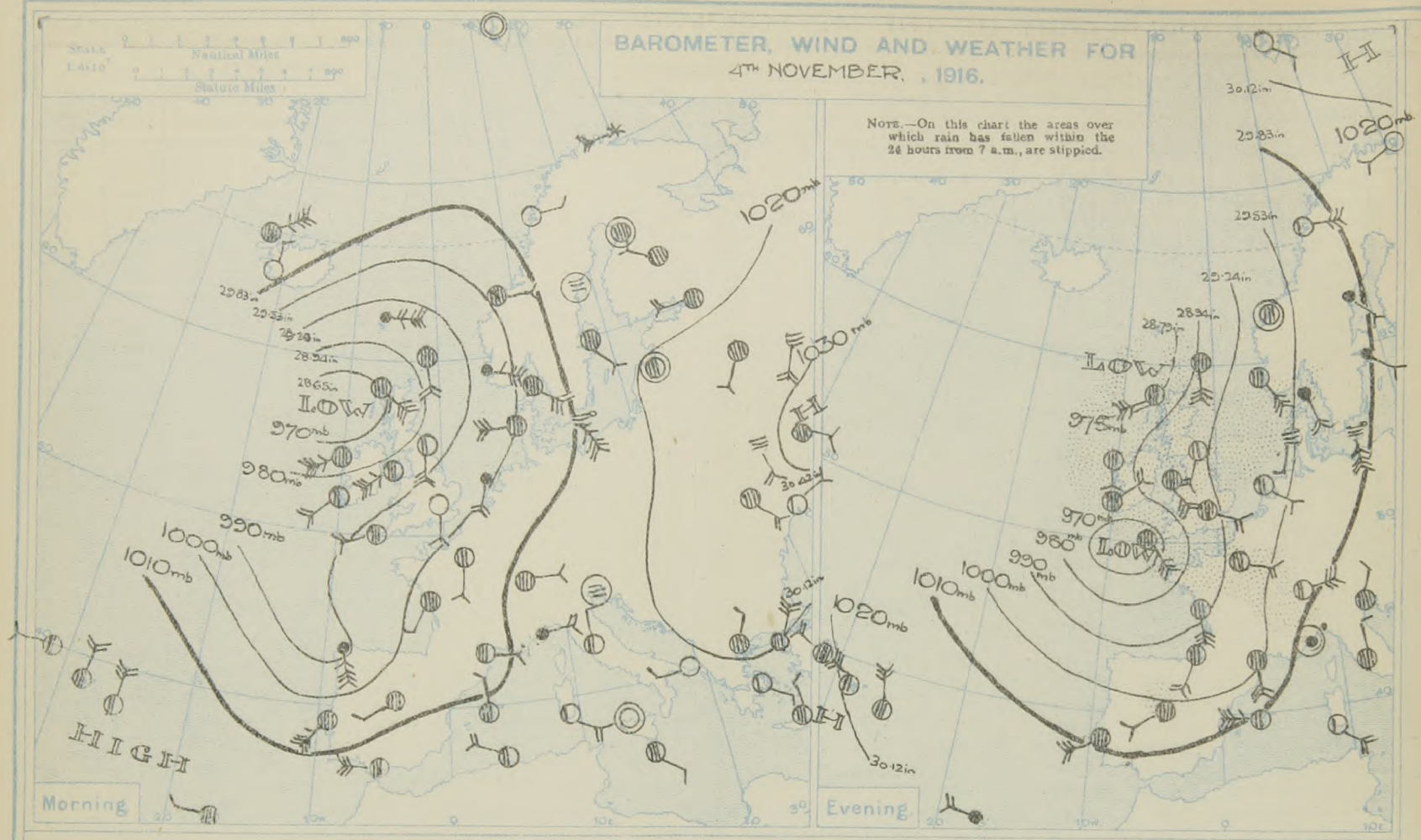
London (Kew Obsy.) 5th Gusts. S.8. about 6h.

~: Notes :~

Stornoway: 4th – 5th Aurora observed during night of 4th – 5th

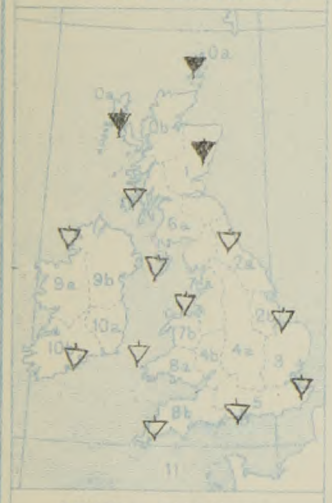
~: ~

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

South Cone hoisted yesterday at 2 p.m. in Dist. 8; at 6.50 p.m. in Dists. 2, 3, 5, 6, 7, 9, & 10; & to-day at 2.50 a.m. in Dists 0 & 1.

0 a, b; 1	Wind from some Easterly or North-Easterly point, increasing considerably; rainy, squally; moderate temperature.
2 a, b; 3; 4 a, b; 5	Wind mainly Southerly, strong to a gale; rain at times, squally; rather mild.
6 a, b; 7 a, b	Wind between East and North, fresh to a gale; rainy, squally; moderate temperature.
8 a, b	Wind variable to Northerly or North-Westerly, a gale at times; rainy; temperature falling.
9 a, b	Wind between East and North, strong to a gale; rainy, squally; colder.
10 a, b	Northerly winds, fresh to high or a gale; rain at times, squally; colder.
Western Channel and Bay 11	Wind between North-West and South-West, strong to a gale; sea high; rain at times, squally.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 5TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression in the south-west will probably move rather slowly, and cause rough, rainy weather over the Kingdom generally.

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. ⊤ϟ, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

HIGH 1020mb

1015mb

1010mb

1020mb

HIGH

Barometer falling

Bar. rising

Bar. rising

LOW

1020mb HIGH

1015mb

1000mb

995mb

990mb

985mb

980mb

975mb

970mb

965mb

960mb

30·12in

29·57in

29·83in

29·68in

29·53in

29·38in

29·24in

29·09in

28·94in

28·79in

29·97in

29·83in

29·68in

30·12in

35°

45°

45°

55°

55°

65°

SCALE 1 : 2 x 10⁶
Nautical Miles 0 1 2 3 4 5 600
Statute Miles 0 1 2 3 4 5 600

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for NOVEMBER.

AGW.

Issue No. 20072 — DAILY WEATHER REPORT. — Sunday, 5th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall, Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.						
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...														*	
	Gorki	1019.5	37	SW	4	b	1027.6	2	37	+ 1	SW	1	o	—	*	34
	Velieki Luki ...						1024.6	*	39	+ 2	SSW	2	o	2	*	37
	Hangö							− 3							*	
	Riga	1016.4	41	—	0	bc	1021.9	+ 3	36	− 18	—	0	c	—	*	36
	Petrograd ...	1005.6	43	W	4	o	1016.6	+ 6	39	0	W	3	o	1	43	39
	Moscow	1024.0	37	S	4	o	1023.4	0	36	0	SSW	4	f	—	*	36
	Kiev	1026.6	37	SSE	4	c	1027.3	+ 2	36	+ 4	S	3	f	—	*	30
	Kharkov ...	1033.3	32	SE	2	b	1032.3	0	27	+ 1	SE	2	o	—	*	29
	Kishinev ...	1024.8	43	SE	4	c	1023.5	0	43	+4	SE	2	o	—	*	37
	Elisabetgrad ...	1030.0	45	SE	4	b	1028.6	0	34	+ 7	ESE	2	f	—	*	29
	Nicolaiev ...	1028.4	41	SE	2	o	1027.4	*	36	+ 6	NE	2	b	—	*	30
	Odessa	1027.5	45	ESE	3	o	1026.1	+ 1	46	+10	ESE	2	o	—	*	36
	Tarkhankout...	1026.7	37	NE	3	b	1025.6	*	41	-	E	5	b	—	*	37
	Soukhoum ...	1021.9	50	WNE	2	b	1021.1	+ 2	46	-	NNE	2	b	—	*	45
Mediterranean.	Venice	1019.9	50	—	0	f	1019.3	*	48	0	—	0	f	—	54	48
	Pesaro	1019.7	52	SW	1	o	1019.6	*	56	+ 4	—	0	c	—	66	52
	Rome	1019.7	55	—	0	b	1019.7	*	48	0	N	1	bc	—	64	46
	Viesti	1021.2	55	—	0	b	1019.6	*	57	− 2	—	0	b	—	64	54
	Brindisi	1019.9	57	W	1	bc	1019.6	*	54	0	W	1	b	—	64	54
	Cagliari	1015.1	68	SE	4	c	1014.0	*	63	0	SE	3	b	—	75	52
	Palermo	1019.6	59	—	0	c	1019.3	*	64	+ 3	—	0	b	—	72	50
	Tripoli	1018.6	66	SSW	3	b	1019.1	*	64	+ 1	SSW	3	b	—	82	57
	Algiers	1013.0	68	NE	1	b	1014.6	+ 2	66	+ 2	WNW	3	bc	—	75	64
Sweden.	Hernösand ...	1008.4	41	SSE	2	f	1014.1	*	28	− 4	—	0	f	*	*	*
	Stockholm ...	1008.0	45	SE	2	r	1016.0	*	41	0	SSE	2	o	*	*	*
	Wisby	1010.1	46	SW	2	o	1017.3	*	43	− 2	SW	2	o	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F.	°F.			
Isafjord ...	1017.5	34	-	NE	8	o
Reykjavik	1010.4	24	-	—	0	b
Vestmanna	1007.5	34	-	N	1	b
Seydisfjord	-	-	-	-	-	-
Thorshavn	987.7	44	-	E	9	r

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	11	2	50	43	dp	c	0.5
	Banff	8	-	52	45	q bc	bc	2.0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	-	-	50	39	b.bc	bc c	1.4
	Skegness	Trace	-	53	45	bc	bc cg	5.3
Eng. N.W.	Morecambe							
	Southport	Trace	-	52	43	bc.b.bc	c.o	1.9
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	Trace	-	54	43	bc	c. or	2.8
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	53	47	r.o.c	bc.o	1.0
	Tenby	1	1	53	45	bc c	or	0.0

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	8	-	55	48	bc	bc.o	4.7
	Walton-on-Naze							
	Southend-on-Sea	3	-	57	47	bc.c.o	c.bc	4.2
England, S.E.	Margate	-	-	57	48	c.bc	bc.c	4.8
	Ramsgate	6	-	56	42	bc	bc o	3.9
	Hastings	7	-	57	49	or.bc.b	b.bc	6.3
	Eastbourne	8	-	57	49	-	-	6.0
	Seaford	*	*	57	50	b	c	5.4
	Brighton	-	-	56	50	c.b	b.c	4.0
	Worthing	13	Trace	58	49	o.bc	bc.c	4.5
	Littlehampton	15	Trace	56	42	do.bc	bc	3.9
	Bognor	*	*					
	Bournemouth	—	1	57	47	b.bc	b.r	4.3
England. S.W.	Weymouth...	*	*					
	Torquay	2	5	56	46	c.bcp	c.or	3.8
	Paignton	*	*	57	? 47	bc	or	3.8
	Penzance	3	9	55	47	o.c	or	0.0
	Newquay							
	Bude	1	4	54	42	o	or	0.4
	Ilfracombe							
	Weston-s-Mare							

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

5th & 6th November, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6. 58	11. 37	4.16
	6. 59	11. 37	4.15
Greenwich	7. 3	11. 44	4.25
	7 4	11. 44	4.24
Wick	7. 40	11. 56	4.12
	7. 42	11. 56	4.10
Valencia	7. 45	12 25	5. 5
	7. 46	12 25	5. 4

PILOT BALLOON ASCENTS for the PAST WEEK.
Component Velocities to East and to North in metres per Second.

STATION. Date and 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.
		Benson 2nd 11h45m													
Heights in Kilometres	1.5	+9	+8												
	1.0	+9	+6												
	0.5	+8	+8												
	0	.	.												

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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‡ The barometric change is expressed in half-millibars

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 311.

Monday, 6th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F.	°F							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	977.8	50	SSE	5	om	967.2	− 9	48	+1	SE	6	—	oq	6	20	50	47	or	omp	orq	*
	Deerness (Orkney)	973.6	50	SE	6	oge	967.1	*	47	−2	SW	6	—	oue	5	19	51	47	r.c	c o	oqe	1.4
	Stornoway ...	970.1	55	N	5	op	968.7	0	37	−7	—	0	—	cz	0	10	46	36	op.or	or. op	o cpz	0.0
	Castlebay (Barra Isd.)	972.4	45	WNW	3	r	969.2	− 2	49	0	SW	5	SW	op	5	17	49	44	or	r	r.o.r.c.o	0.0
	Glasgow ...	968.8	45	—	0	om	976.3	+ 4	45	+1	SW	4	—	oq	*	8	51	43	o.c.om	omdp	om. oqp	0.4
	Eskdalemuir ...	967.8	45	SW	1	o	979.4	+ 4	41	−6	SW	6	—	o	*	3	49	41	c. bc.b	c. or. od	o.om. o	1.0
	Malin Head ...	971.6	45	N	7	omq	974.7	.0	45	0	NW	8	—	omqr	8	12	48	43	omrq	ornq	omqr	0.0
	Blacksod Point	980.0	47	NW	7	cmqp	987.5	+ 2	43	−5	WNW	8	NW	cmqp	6	7	49	43	cmqp	cmqp	cmq,p	*
	Valencia ...	985.8	50	NW	6	c	996.5	+ 2	45	−4	W	5	—	bcp	4	4	51	45	op.c or o	c . op	op c bc	1.1
	Roche's Point	981.8	49	NW	4	bc	995.8	*	43	−2	W	3	—	b	3	0.4	51	41	o	c. bc	bcp b	*
	Birr Castle ...	978.2	48	NW	2	o	990.6	*	41	−1	W	3	—	c	*	4	48	40	or	o	o . c	0.0
	Donaghadee ...	970.6	46	WNW	5	emp	979.2	o	42	−8	SW	6	SW	cmqp	5	5	51	42	omr	omp	cp.bcq	*
	Liverpool (Bidston)	969.2	49	WSW	5	o	986.8	+ 7	46	−3	WSW	6	W	bc	5	3	50	45	od	o	ep	0.1
	Holyhead ...	971.4	50	WNW	8	oq.q	988.1	+ 3	46	−5	WNW	7	NW	cq	6	0.4	53	46	cp o c	bc cp o	c. bc.c	1.3
	Pembroke (St. Ann's)	977.1	51	WNW	5	cq	993.8	+ 10	48	−2	W	6	NW	bcq	5	1	53	47	o.cq	oqp cq	bcqp	0.4
	Scilly (St. Mary's)																					
	Falmouth ...	982.1	50	W	8	c	999.0	+ 7	45	−6	W	4	—	bcp	*	8	52	45	dq. rq	arq cp	eq.cdp	0.0
	Jersey (St. Aubin)	981.5	52	W	6	ogup	999.3	*	52	−1	W	5	W	c	4	12	54	50	og ur	ogr, og	ogqp c	0.0
	Portland Bill ...	976.4	51	WSW	7	o	995.7	+ 8	50	−3	WNW	6	W	bc	5	10	55	49	or	or	o.c. bc	*
	Dungeness ...																					*
	Dover	977.8	50	S	9	r	995.1	+ 9	46	−6	SW	4	SW	b	4	12	59	45	c bc b c	cprq	orq . b	1.3
	Wick	972.4	50	SE	4	o	969.8	+ 7	43	−6	SW	2	—	bc	4	15	52	42	r. bcm	bc. omq	bc	*
	Nairn	970.1	46	—	0	r	970.1	*	43	0	—	0	—	bc	1	6	48	42	d c bc	bc cg	rg o.c	0.7
	Aberdeen	970.6	49	SE	5	r	973.3	+ 5	43	−6	SSW	3	—	bz	4	11	54	43	or. c.b	bc orq	orq o.b	3.3
	Leith	967.5	48	E	1	r	975.2	+ 2	46	−2	SW	3	SW	c	3	6	52	45	o . or	r	r. o.bc.c	*
	Tynemouth ...	966.7	50	SE	4	cgmr	981.0	+ 7	46	−4	WSW	2	W	bcm	3	6	50	45	omqr	omqr	bcm	*
	Spurn Head ...	966.4	48	S	8	cq	986.1	+ 6	47	−2	WSW	5	—	bcq	6	2	51	45	oq	oqr	cq	0.0
	Yarmouth ...	973.8	52	SSW	9	omqr	990.1	+ 7	45	−9	WSW	2	—	o	3	3	55	45	bc. cq	omqr	cqp bc	0.0
	Clacton-on-Sea	974.8	52	SSE	7	o	991.9	+ 7	47	−7	WSW	3	W	bc	3	1	54	47	bc . c	c. oqr	cqp.bc	0.5
	Nottingham ...	968.8	50	WSW	3	o	989.6	*	44	−7	SW	3	SW	b	*	3	52	43	c.or	r . o	op	0.0
	Benson (Oxon.) ...	972.8	50	SW	5	r	993.0	+ 8	42	−8	SW	3	—	b	*	13	52	42		rq r	or . b	*
	Sth Farnborough	974.0	50	S	6	r	993.7	+ 8	43	−9	WSW	3	—	bv	*	14	52	42	or	r . o r	or.o r.o.b	0.0
	London (Kew Obsy.)	974.2	51	SW	5	orq	993.7	+ 8	45	−7	W	3	W	b	*	13	53	45	orq	orq . or o	o.or bc.b	0.0
NORTHERN EUROPE.	Spitsbergen ...	1022.3	−8	S	2	b	1027.3	+ 3	−9	+2	SSE	1	*	b	*	*	−8	−13				
	Vardö	1012.3	30	S	1	o	1016.4	+ 5	30	+7	NE	2	—	o	3	*	30	23				
	Bodö	1005.1	34	E	1	o	997.0	− 1	36	+4	ENE	6	—	bc	3	—	36	30				
	Christiansund ...	988.6	48	SE	4	r	987.3	− 1	52	+6	SE	2	—	c	3	5	52	45				
	Skudesnaes ...	986.0	50	ESE	6	o	981.3	− 1	50	−2	ESE	8	—	r	6	8	52	48				
	Færder (X'tania Fjord)	995.5	46	SE	2	r	993.5	+ 1	48	0	SSE	6	—	m	3	21	48	45				
	The Scaw (Skagen)	994.7	48	SE	6	r	993.2	0	48	0	SSE	4	—	c	5	9	50	43				
	Blaavands Huk	991.1	50	S	3	o	990.4	+ 1	50	0	SSW	2	—	o	5	Trace	52	46				
	Copenhagen ...	995.7	48	SSE	3	o	997.9	+ 2	50	+2	SSW	2	—	m	*	—	50	46				
	Bornholm ...	998.0	46	SE	4	m	1000.8	+ 3	48	+2	SW	4	—	m	2	—	50	45				
FRANCE, &c.	The Helder ...	984.3	52	SSE	7	b	990.1	+ 6	52	−2	SW	4	SW	c	4	1	55	48				
	C. Gris Nez ...	979.2	51	S	9	r	993.9	+ 7	52	+2	W	7	*	c	6	5	55	50				
	La Hève	?	50	SW	8	o	?	*	50	0	WSW	5	*	c	5	4	57	46				
	Brest (St. Mathieu)	988.3	53	WNW	6	o	1003.4	+ 5	53	+1	WNW	5	*	c	4	+4	54	48				
	Rochefort (Ile d'Aix)	994.3	54	WSW	6	r	1007.7	+ 6	54	−1	WNW	7	*	o	*	8	73	50				
	Biarritz	998.3	61	SW	6	c	1013.0	+ 6	52	−5	SW	5	*	r	6	6	61	50				
	Paris	990.9	52	S	5	o	1000.8	+ 6	48	−4	SSW	3.	—	o	*	—	59	48				
	Belfort	1009.8	55	WSW	2	c	1007.0	*	45	−1	WSW	4	*	r	*	24	55	39				
	Lyons	1000.7	51	—	0	o	1008.0	*	46	−	SSW	1	*	o	*	—	57	46				
	Nice	1005.2	55	W	2	o	1006.0	+ 2	51	−8	E	1	*	b	3	—	61	48				
	Perpignan ...	1001.9	55	SW	1	tlr	1011.5	+ 6	52	−2	NW	3	W	b	*	1	68	48				
	Sanguinaire ...	*	59	SW	3	o	*	*	68	-	E	3	*	o	5	4	64	52				
SOUTHERN STATIONS.	Corunna	1006.7	55	WSW	4	c	1015.5	+ 1	52	~	SW	2	W	o	5 *	13	57	50				
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1013.7	*	SSW	9	o							*									
	Madeira	1021.5	70	NW	2	o	1021.6	o	63	−1	W	1	—	bc	2	—	72	63				
	Gibraltar	1019.6	61	NW	5	c	1021.0	*	56	−	NW	3	*	bc	3	13	67	55				
	Malta	*	*	*	*	*	1013.5	o	70	+4	S	1	—	o	o	—	75	66				
	Limassol	*	*	*	*	*	1016.8	+ 1	66	+9	W	1	—	b	4	—	75	52				
	Alexandria ...	1017.9	68	—	0	c	1017.9	o	66	+3	—	0	—	o	o	—	77	63				
	Cairo (Helwan) ...	1017.7	66	NNW	2	b	1018.0	+2	64	0	NE	1	—	b	*	—	75	57				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	93	82	0.0	55	44	39	11	od	or	o bc.b
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	86	0.0	58	45	39	10	ur	ur	ur. bc
CAMDEN SQ. (British Rainfall) ..	~	82	0.0	54	44	40	10	or	or	*
HAMPSTEAD (Reservoir)	*	84	0.0	53	42	29	12	or	or	bc
S. KENSINGTON (Museum Grounds)	*	75	0.0	54	45	39	9	bc. or	orq	orq, o bc
RICHMOND PARK	*	*	0.0	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
2172	25.1	20

Temperatures at Greenwich and Camden Square are from Glaisher screens.

UPPER AIR.

	S. Farnborough 7h 25m		Aberdeen 8h	
		m/s.		m/s.
2400	W by S	14		
2100	W	20		
1800	W	18	SSW	7
1500	W	14	SW by S	7
1200	W	15	SW by W	10
900	W by N	16	SW	13
600	W by N	14	SW by W	9
300	W	12	SW	11
150			SW	11
Surface	WSW	7	SSW	7

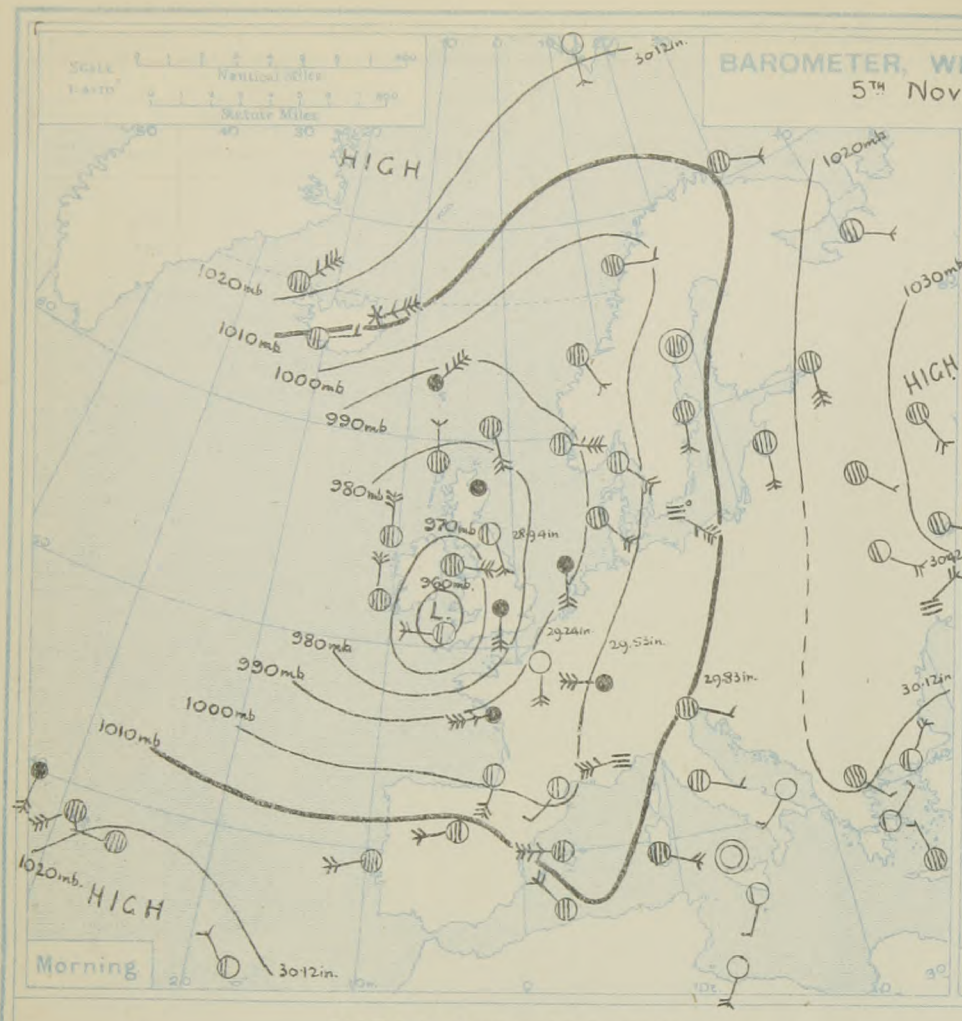
GALES

Duration and Extreme Force in British Islands.

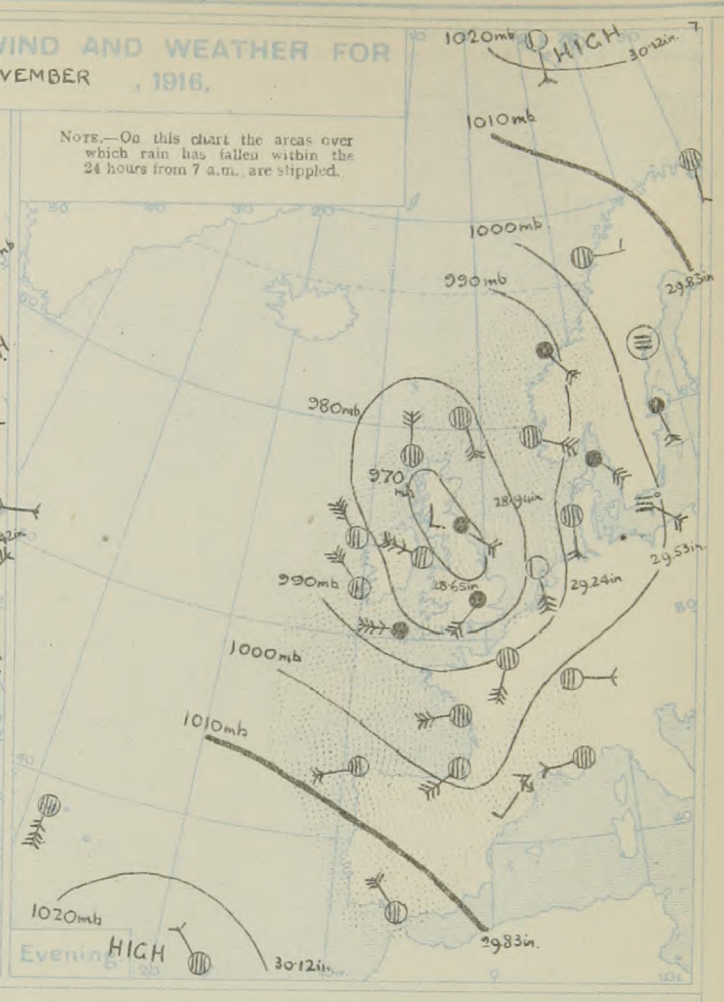
Lerwick :- 6th 2h–7h SE 8; 2h SE 9
Malin Hd :- 5th 7h E 8. 6th 2h–7h NW 8
Blacksod Pt. - 6th 1h–7h. NW–WNW 8
Holyhead :- 5th 18h. WNW 8.
Falmouth :- 5th Squalls W 8. during morning and 2h 18h.
Portland Bill :- 5th 7h–18h. S 10–WSW. 8.
Dungeness :- 5th 7h. SSW 9.
Dover :- 5th 8h–20h S 8; 18h S 9. Gusts 35 m/s
Spurn Hd :- 5th 11h–18h S 8.
Yarmouth :- 5th 7h–20h S 8. SSW 9 18th & 20h
Benson :- 5th 13h SSE 8 gusts 9
Kew :- 5th 10h 25m Gust S 24.5 m/s 13h 30m Gust SSW 25.5 m/s
Clacton-on-Sea 5th 10h–16h SSE 8 Calm 12h. SSE 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 5TH NOVEMBER, 1916.



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.

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} Wind between South-West and West, moderate or fresh; some rain; moderate temperature.

1, 2 {a, b} South-Westerly winds, moderate or fresh; changeable, showery; moderate temperature.

3, 4 {a, b}, 5 Wind mainly between West and South-West, moderate or light; mostly fair, some local showers; moderately mild.

6 {a, b} Westerly to South-Westerly winds, strong to moderate; changeable, showery; moderate temperature.

7 {a, b}, 8 {a, b} Westerly to South-Westerly winds, strong to moderate; some showers, fair intervals; moderate temperature

9 {a, b}, 10 {a, b} North-Westerly to Westerly or Southerly winds, strong to moderate; changeable, showery; milder later.

Western Channel and Bay 11 Westerly or South-Westerly winds, moderate or fresh; sea rather rough; some showers.

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF MONDAY, 6TH NOVEMBER, 1916.

GENERAL INFERENCE.

The latest report from the Azores appears to indicate that another large depression on the Atlantic is moving towards this country.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

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

Normal Temperature of the Sea
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

HIGH
1025 mb
1020 mb
1015 mb
1010 mb
1005 mb
1000 mb
995 mb
990 mb
985 mb
980 mb
975 mb
970 mb
LOW
Barometer falling
Barometer rising
generally
30·27in.
30·12in.
29·97in.
29·83in.
29·68in.
29·53in.
29·38in.
29·24in.
29·09in.
28·94in.
28·79in.
28·65in.
50°
40°
HIGH
1020 mb

Issue No. 20,073 — **DAILY WEATHER REPORT.** — Monday, 6th November **1916.**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max. °F.	Min. °F.
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1022·4	27	N	2	b.	1027·1	0	25	-	SE	2	c	-	*	23
	Gorki	1025·6	37	SW	3	o	1025·0	0	34	-	SE	1	o	-	*	34
	Velieki Luki ...	1027·9	37	SE	2	a	1026·4	*	36	-	SSE	3	o	-	*	36.
	Hangö	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-
	Riga	1019·8	41	E	4	o	1016·8	+2	41	+5	S	4	o	-	*	36
	Petrograd ...	1024·2	43	S	3	o	1020·2	-4	37	-2	S	6	o	-	43	37
	Moscow	1032·2	37	WSW	1	o	1033·6	0	36	0	SSE	3	o	1	*	34
	Kiev	1027·0	34	SE	3	o	1026·7	0	32	-4	SE	3	bc	-	*	32.
	Kharkov ...	1031·7	36	SE	1	o	1032·4	0	32	+5	SE	2	c	-	*	27
	Kishinev ...	1023·2	46	SE	3	o	1022·9	+1	36	-7	SE	4	o	-	*	36
	Elisabetgrad ...	1028·0	34	ESE	2	b	1027·1	0	28	-6	ESE	2	b	-	*	28
	Nicolaiev ...	1027·5	37	E	2	o	1025·1	*	32	-2	ENE	2	b	-	*	30.
	Odessa	1026·1	41	ESE	3	o	1024·8	+1	36	-10	ENE	3	f	-	*	36.
	Tarkhankout...	1024·2	41	NE	4	o	1022·7	*	39	-2	ENE	3	o	-	*	34
	Soukhoum ...	1017·7	50	NNE	2	b	1017·7	+1	50	+4	NNE	2	bc	-	*	46
Mediterranean.	Venice	1016·0	55	NNE	1	o	1010·0	*	59	+11	SE	1	o	Trace	59	48
	Pesaro	1016·1	54	-	0	o	1011·9	*	57	+1	-	0	o	-	63	54
	Rome	1017·0	59	-	0	o	1014·0	*	59	+11	SE	1	c	-	66	48
	Viesti	1023·4	59	SSE	2	b	1014·7	*	59	+2	SSE	5	c	-	64	54
	Brindisi	1018·2	57	-	0	b	1017·0	*	54	0	SW	1	b	-	66	54
	Cagliari	1012·4	66	SE	4	b	1010·4	*	66	+3	SE	3	o	-	73	52
	Palermo	1018·2	63	-	9	b	1014·9	*	68	+4	-	0	b	-	73	48
	Tripoli	1017·4	68	SSE	2	b	1017·2	*	64	0	SSE	3	b	-	77	57
	Algiers	1011·4	68	-	0	o	1011·7	+4	70	+4	NW	3	c	-	77	66
Sweden.	Hernösand ...	1008·4	41	SSE	2	f	1003·8	*	43	+2	-	0	o	*	*	*
	Stockholm ...	1008·0	45	SE	2	bc	1006·9	*	46	18.	S	2	o	*	*	*
	Wisby	1010·1	46	SW	2	o.	1008·3	*	46	+3	SSW	2	o.	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Change in 24 hours. °F	Wind. Direc.	Force 0–12.	Weather.
Isafjord ...	1021·7	30	-4	NE	8	o.
Reykjavik	1014·6	28	+1	NNE	4	b.
Vestmanna	1009·2	34	-0	ENE	1	c
Seydisfjord	1013·0	25	-	NE	8	s.
Thorshavn	984·3	38	-6.	NE	7	r

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta, ...	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature. Max. F	Temperature. Min. F	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
Scotland.	Oban	2	2	50	43	or*	c	01
	Banff	6	2	52	45	c.bc	bc.or	13
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	10	4	48	42	or	r.d	00
	Skegness	5	2	53	47	bc.g	g.or	04
Eng. N.W.	Morecambe							
	Southport	4	4	55	46	or	r.c.c	00
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	3	1	52	47	o.p.o	o.p.c.o.	04
	Colwyn Bay...	*	*	50	47	c.p	p.c	0.3.
	Llandudno	*	*	54	48	p.c	c	06
	Aberystwyth	*	*	52	44	r.o	c.o	02
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
England. E.	Lowestoft							
	Felixstowe	3	1	55	41	o.bc.q	o.c.p.	12.
	Walton-on-Naze							
	Southend-on-Sea	2	3	55	49	c.or	or	04
England. S.E.	Margate	4	3	56	53	o	or	00.
	Ramsgate	5	2	56	*	o	r	00.
	Hastings	9	5	57	51	or.c	or	00
	Eastbourne	12	3	59	52	r	r	00
	Seaford	*	*					
	Brighton	8	1	57	51	c	c	00
	Worthing	6	9	55	51	r.q	r.q	00
	Littlehampton							
	Bognor	*	*					
	Bournemouth	6	10	53	50	r	r	00
England. S.W.	Weymouth...	*	*					
	Torquay	14	-	57	49	o	o	02
	Paignton	*	*					
	Penzance							
	Newquay	13	4	53	42	r	r	00
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

6th & 7th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6. 59 / 7. 0	11. 37 / 11. 37	4. 15 / 4. 14
Greenwich	7. 4 / 7. 5	11. 44 / 11. 44	4. 24 / 4. 23.
Wick	7.42 / 7.44	11. 56 / 11. 56	4. 8 / 4. 6.
Valencia	7.46 / 7.47	12.25 / 12.26	5.4 / 5.3.

NOTES ON YESTERDAY'S WEATHER.

Rain fell generally, the quantity being very considerable in the north and south. Temperature rose to 55° or above at several southern stations Very little or no 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; z. hoar frost; z. dust-haze, or smoke.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 312.

Tuesday, 7th November

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING. 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 ...	976.3	49	S	5	cq	977.6	+1	48	-1	S	6	—	oq	5	4	50	47	cqp	cq	cqp	*
	Deerness (Orkney)	972.6	47	SSE	5	c	977.0	*	46	-1	SSW	6	sw	bc	4	4	51	46	o.c.bc.b	b.bc.c	c.or.bc	6.0
	Stornoway ...	972.1	48	WSW	4	cd	974.5	0	44	+7	SW	3	—	bc	3	5	48	37	cd r bc	bc.cd	c.bcpq	1.4
	Castlebay (Barra Isd.)	977.4	50	WNW	4	cp	976.1	-2	47	-2	SW	4	—	o	4	3	50	47	cp	cp	mp.o	0.1
	Glasgow ...	9833	44	SW	6	cqr	9794	-7	39	-6	E	3	—	orm	*	10	45	37	cp	cqr.cp	cp.cor	0.0
	Eskdalemuir ...	985.8	42	SW	8	bc	977.8	-12	39	-2	E	2	—	o	*	13	42	36	or.cqr	cqr cq	bc.c.o	0.0
	Malin Head ...	982.0	47	W	8	cqp	976.6	-3	39	-6	S	2	—	omr	4	5	47	38	omqr	bcqp	omr	0.8
	Blacksod Point	981.0	44	SW	5	bcqp	976.4	-3	40	-3	NNE	2	—	omd	3	2	46	39	cmqp	bcqp	bc omd	*
	Valencia ...	990.7	45	SE	2	r	976.0	0	48	+3	SW	3	—	op	3	9	52	42	bc c	c.or	or.o.op	1.4
	Roche's Point	994.3	46	SW	3	r	977.4	*	50	+7	SW	3	—	o	5	18	51	40	bc c	c o	r.o	*
	Birr Castle ...	993.4	42	W	2	c	974.4	*	48	+7	SW	2	—	o	*	7	48	40	cp	c	or.o	5.7
	Donaghadee ...	968.4	43	WSW	6	cmq	973.9	-12	46	+4	E	5	—	omrq	5	7	46	38	or cmq	cmqp	bq.omr	*
	Liverpool (Bidston)	994.7	44	SW	2	b	978.5	-3	49	+3	SSW	4	—	b	4	3	50	40	bq	bc	or.b	5.0
	Holyhead ...	994.1	50	WSW	6	bcqq	977.1	+1	52	+6	SW	6	—	bcm	5	7	53	46	c.bc	bc c bc	b.ord.c	5.7
	Pembroke (St. Ann's)	991.6	50	WSW	5	cqp	980.8	-2	53	+5	SSW	5	sw	cq	5	15	54	46	bcqr	bcqb	orq.cq	?
	Scilly (St. Mary's)																					
	Falmouth ...	1000.7	50	SSW	6	orq	984.3	-2	53	+8	SSW	4	—	o	*	23	54	44	bcq	bcq.c.o	rq.o.o	5.4
	Jersey (St. Aubin)	1005.0	52	SW	5	cqp	990.1	*	54	+2	S	6	—	cqp	4	6	54	47	bcqp	cqp.h.c	cqp	4.2
	Portland Bill ...	1001.0	51	SW	5	bc	985.4	-5	51	+1	SW	8	sw	c	7	13	53	49	bcp	bc.c	c.qr	*
	Dungeness ...	1002.4	49	WSW	3	bc	990.6	-7	50	+1	SSW	10	—	r	8	7	54	48	bc	bc	cp k or	*
	Dover	1003.6	48	S	4	b	992.2	-5	47	+1	S	7	S	r	6	10	53	44	b	b	b.orht	7.9
	Wick	972.6	48	SW	3	c	977.7	+1	46	+3	SSW	4	—	bc	3	1	50	41	bc	bc.cmq	r bcqp	*
	Nairn	973.1	47	WSW	4	ouqp	977.9	*	42	-1	SW	1	—	bc	1	1	50	40	bc	bc cfq	op.c	4.6
	Aberdeen	977.8	47	SSW	5	o	981.3	-2	45	+2	S	5	—	o	3	0.2	48	41	b.bc	c.opq	cq.o	2.6
	Leith	982.2	45	W	6	bc	979.5	-3	41	-5	ESE	1	—	r	3	4	47	40	c.op.c	cp cq c	bc.bor	*
	Tynemouth ...	989.4	46	SW	3	bcm	979.7	-11	46	0	SSE	7	—	omqd	6	4	49	40	cmq	bcm	omqr	*
	Spurn Head ...	995.7	46	WSW	5	bcq	982.7	-2	46	-1	SW	8	—	orq	7	8	49	44	bcqr	bcq	oqr	6.6
	Yarmouth ...	1000.3	42	W	2	b	990.6	-6	50	+5	SSW	9	—	omqr	6	5	52	42	bc	b	bc omr	7.3
	Clacton-on-Sea	1001.6	48	SW	3	b	991.2	-5	50	+3	SSE	7	s	r	6	6	52	45	bc	bc.b	bc oqr	6.8
	Nottingham ...	997.2	44	SW	2	b	983.0	*	51	+7	S	4	s	o	*	5	51	40	bc	bc.b	bc	6.9
	Benson (Oxon.) ...	1000.9	39	WSW	2	b	984.3	-8	51	+9	S	6	—	orq	*	14	51	39	b	b	b.or	*
	Sth Farnborough	1001.9	49	WSW	3	bc	987.0	-7	51	+8	S	6	—	orm	*	12	52	42	b.c.op.c.o	cp b.c.bc	bc orm	6.3
	London (Kew Obsy.)	1001.9	45	WSW	2	b	987.5	-7	51	+6	S	5	—	or	*	8	51	45	bc.bc.b	b.bcp.c.bp	bm.om.or	6.9
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	995.7	48	SSE	3	r	1002.3	+1	46	-2	SSW	3	—	o	3	1	52	45				
	Blaavands Huk	999.0	50	SW	2	b	1001.9	0	46	-4	S	4	—	o	4	2	52	45				
	Copenhagen ...	1002.9	50	SW	2	c	1006.6	0	46	-4	WSW	3	—	m	*	—	54	46				
	Bornholm ...	1005.0	46	SW	4	m	1008.7	0	46	-2	SSW	3	SW	m	1	—	52	46				
FRANCE, &c.	The Helder ...	1001.6	52	SW	4	bc	998.6	-5	45	-7	S	5	—	r	3	Trace	52	41				
	C. Gris Nez ...	1005.2	48	WSW	5	c	993.4	-6	46	-6	S	6	*	r	6	16	52	46				
	La Hève	1002.1	48	WNW	4	bc	991.5	*	49	-1	SSW	7	*	o	7	1	55	46				
	Brest (St. Mathieu)	1004.8	51	SSW	4	o	989.7	-1	54	+1	WSW	4	*	r		11	55	50				
	Rochefort (Ile d'Aix)	1011.7	54	SW	4	c	999.9	-3	50	-4	S	6	*	r	*	2	59	48				
	Biarritz	1014.4	49	SSW	7	o	1004.0	-3	59	+7	SSW	5	*	o	3	—	61	54				
	Paris	1009.5	45	SW	2	b	1001.5	-5	46	-2	S	3	S	bc	*	—	57	45				
	Belfort	1017.7	43	WSW	1	c	1012.4	*	37	-8	E	4	*	b	*	1	50	33				
	Lyons	1015.9	46	—	0	b	1012.2	*	36	-10	—	0	*	o	*	6	56	35				
	Nice	1009.1	60	—	0	b	1007.0	+2	49	-2	E	1	*	b	2	—	63	45				
	Perpignan ...	1016.0	54	NW	2	b	1009.7	-5	43	-9	SW	1	—	o	*	—	61	37				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1008.4	59	SSW	1	o	999.3	-2	63	+9	SSW	8	—	r	6	12	7	?				
	Madrid	1020.2	50	—	0	r	1017.2	-2	48	+3	S	1	—	o	*	2	52	45				
	Lisbon																					
	Azores (Horta) ...	1007.1	*	W	5	o	1015.0	+2	60	-6	NW	4	*	bc	2	5	68	61				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1014.1	+2	65	-7	WNW	4	—	bc	3	—	72	61				
	Limassol	*	*	*	*	*	1017.3	+3	68	+2	—	0	w	bc	3	—	75	52				
	Alexandria ...	1017.5	68	—	0	b	1017.5	+1	68	+2	—	0	NE	bc	0	—	77	63				
	Cairo (Helwan) ...	1016.7	66	N	1	bc	1015.4	+1	66	+2	NE	1	W	bc	*	—	75	61				

Donaghadee.

Aurora observed.

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir 6th 13h Gusts SW 22 m/s. 17h-19h. SW 8. 18h. Gusts 26 m/s.
Malin 6th 7h-23h. NW-W 8. 10h NW 9.
Blacksod Pt 6th 7h-9h. WNW 8.
Southport. 6th 7h-8h WSW 8. Gusts 25 m/s.
Falmouth 6th 22h-7th 1h. SSW 8.
Portland Bill 7th 1h-7h SW 8.
Dungeness 7th 5h-7h SSW 10.
Aberdeen 6th 21h. Gust SSW 21 m/s.
Spurn Hd. 7th 2h-7h SW 8.
Yarmouth 7th 3h-7h S 8-9.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. Today.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	69	94	6.9	52	43	35	7	b	b	o.cp.or
CITY (Bunhill Row)	*	*	*	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	68	87	5.8	53	46	37	7	c b	bc	r.od
CAMDEN SQ. (British Rainfall) ..	68	90	5.8	53	44	39	9	b	bc	*
HAMPSTEAD (Reservoir)	*	98	6.3	50	43	31	11	bc	p	or.o
S. KENSINGTON (Museum Grounds)	*	90	6.0	53	46	42	7	bc	b	b.od.r
RICHMOND PARK	*	*	7.1	*	*	*	*	*	*	*

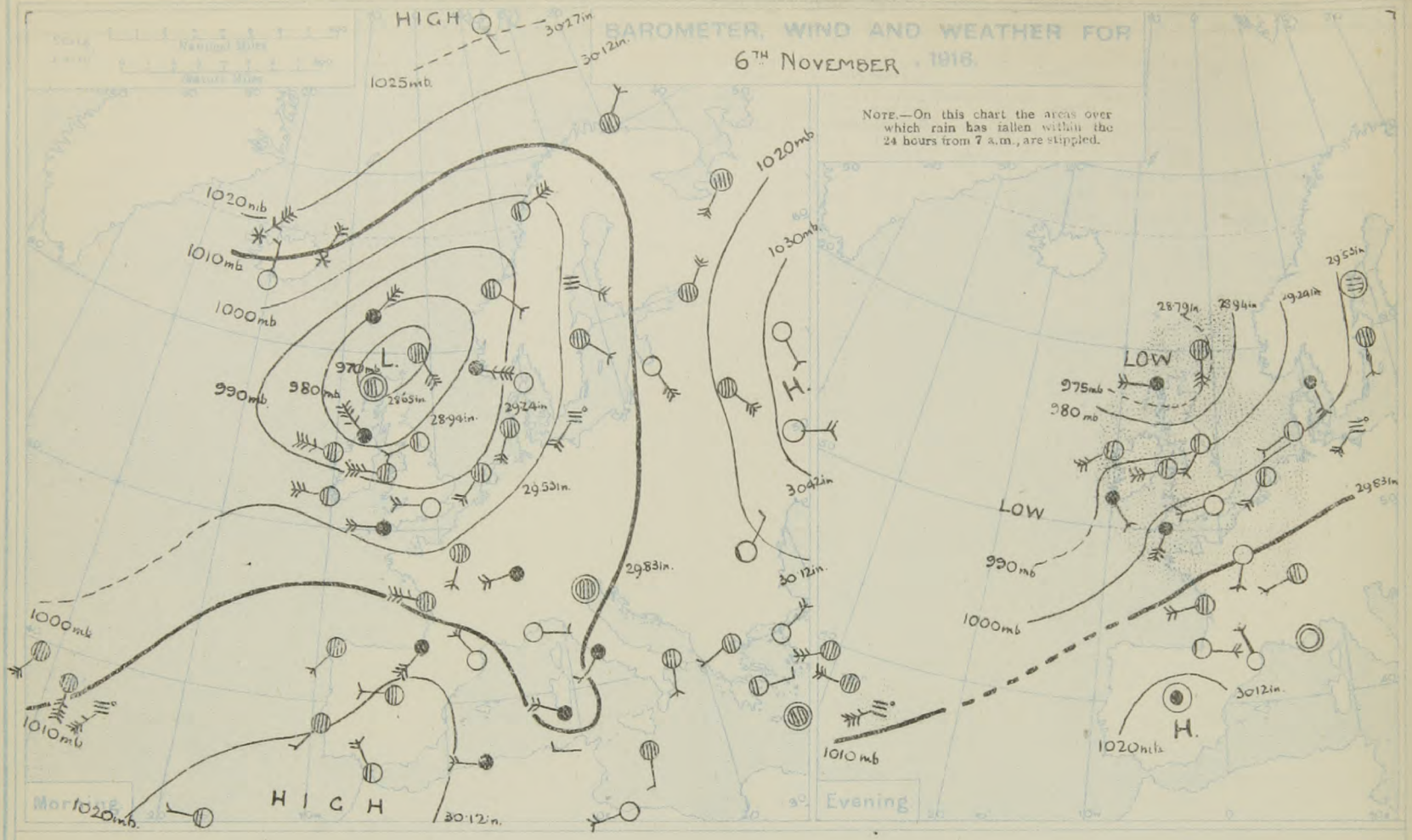
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
526	15.7	34

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY

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 19h15m and at 1h.

0 (a, b) — Strong Southerly or South-Westerly winds, a gale
1 — in places, particularly in east, unsettled,
2 (a, b) — some rain; rather mild.
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 — Strong or high Southerly or South-Westerly winds; rough sea; unsettled, some rain.

FURTHER OUTLOOK.

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

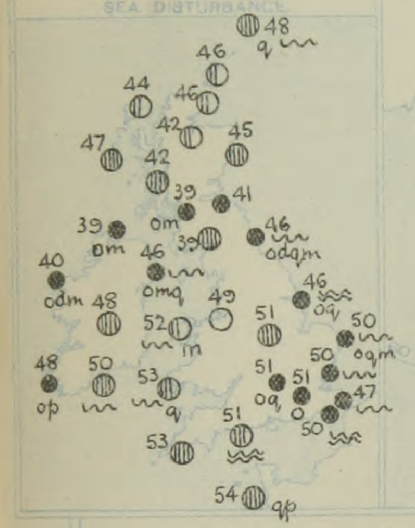
NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 7TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression over Ireland is likely to move Northward and join that lying to the north-west of Scotland. Further depressions from the Atlantic will maintain the unsettled conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

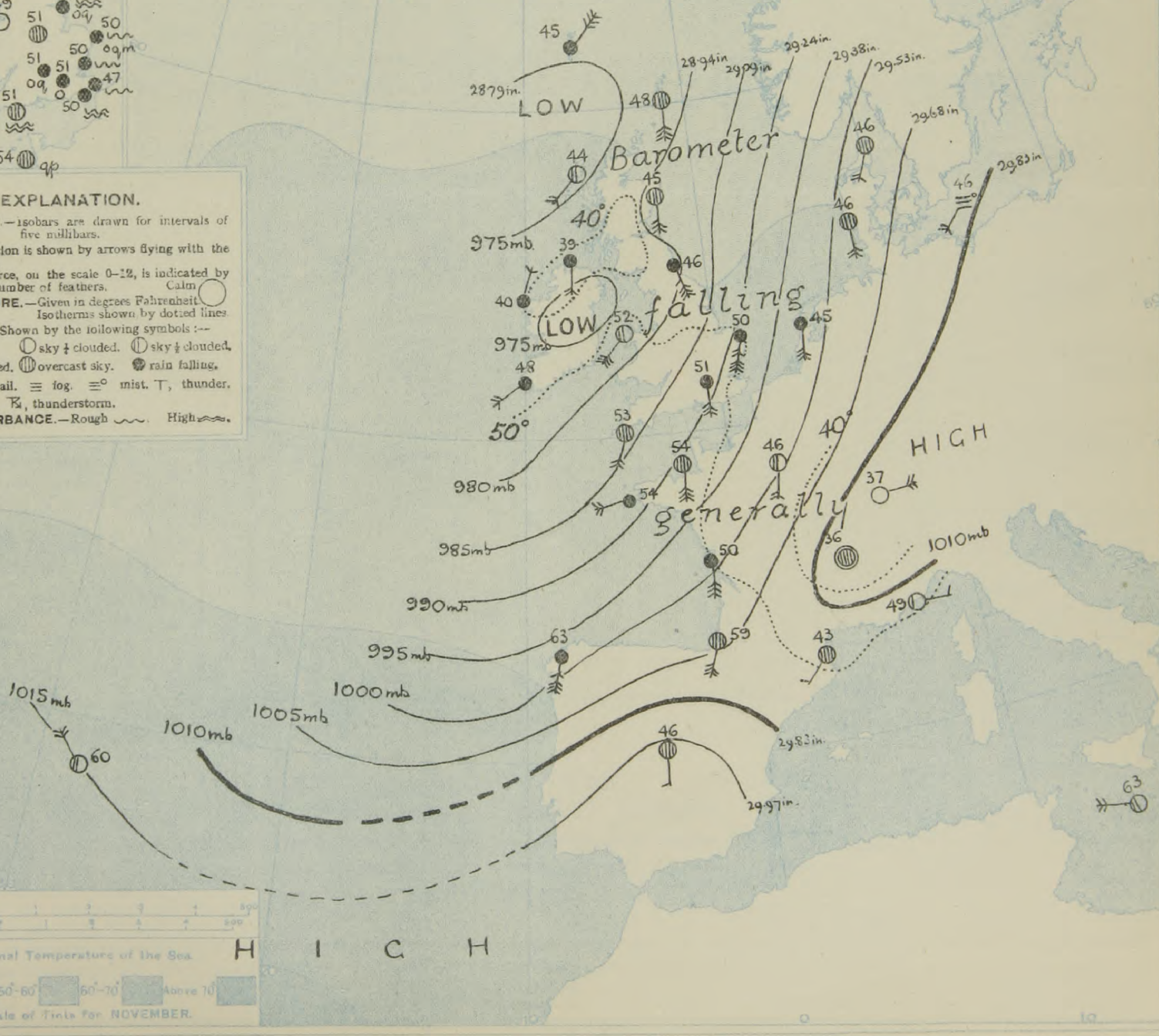
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



Issue No. 20,074

DAILY WEATHER REPORT.

Tuesday, 7th November 1916.

REPORTS FOR YESTERDAY.

	STATIONS	Previous Evening. Barom. Millibars at M.S.L.	Previous Evening. Temp.	Previous Evening. Wind. Direc.	Previous Evening. Wind. Force 0–12.	Previous Evening. Weather.	Morning. Barometer. Millibars at M.S.L.	Morning. Barometer. Change in 3 hours. ‡	Morning. Temp. Dry Bulb.	Morning. Temp. Change in 24 hours.	Morning. Wind. Direc.	Morning. Wind. Force 0–12.	Morning. Weather.	Past 24 Hours. Rainfall. Millimetres.	Past 24 Hours. Temp. Max.	Past 24 Hours. Temp. Min.
			°F.						°F.	°F.					°F	°F.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1026·6	36	SSE	2	0	1014·3	+3	37	+12	SW	4	0	3	*	25
	Gorki	1022·3	37	S	7	0	1021·6	0	34	0	SSE	5	0	-	*	41
	Velieki Luki ...							*							*	
	Hangö														*	
	Riga	1012·3	43	SSE	4	b	1016·9	+1	39	-2	SSE	5	b	-	*	39
	Petrograd ...	1018·4	37	SSE	4	b	1017·9	0	37	0	NNE	4	0	-	39	36
	Moscow	1031·5	34	SSE	2	b	1032·3	0	28	-8	S	2	b	-	*	28
	Kiev														*	
	Kharkov ...	-	-	-	-	-	1032·7	+1	28	-4	ESE	3	b	-	*	28
	Kishinev ...														*	
	Elisabetgrad ...														*	
	Nicolaiev ...							*							*	
	Odessa														*	
	Tarkhankout...							*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1004·9	61	SE	2	r	1006·2	*	55	-4	-	0	0	7	63	55
	Pesaro	1010·6	59	-	0	0	1009·6	*	55	-2	.	0	0	6	64	54
	Rome	1008·7	64	SSE	1	0	1010·4	*	61	+2	SW	1	r	7	66	59
	Viesti	1012·9	61	SE	4	0	1012·6	*	61	+2	SE	2	0	-	64	59
	Brindisi	1013·9	64	S	3	c	1013·2	*	63	+9	S	2	c	-	68	54
	Cagliari	1009·7	68	SE	4	c	1008·4	*	64	-2	WNW	4	r	4	70	48
	Palermo	1012·1	63	ENE	1	bc	1012·1	*	?	?	.	0	0	-	79	63
	Tripoli	1015·3	68	-	0	b	1015·1	*	61	-3	WSW	3	b	-	79	54
	Algiers	1013·0	68	W	5	0	1016·7		57	-13	W	3	r	13	77	57
SWEDEN.	Hernösand ...	1004·0	43	-	0	f	1000·8	*	41	-2	SE	4	f	*	*	*
	Stockholm ...	1004·6	45	SSE	3	r	1000·8	*	46	0	ESE	2	0	*	*	*
	Wisby	1003·8	46	SE	6	0	1001·0	*	48	+2	S	2	0	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Morning. Temp. Dry Bulb.	Morning. Temp. Change in 24 hours.	Morning. Wind. Direc.	Morning. Wind. Force 0–12.	Morning. Weather
		°F	°F			
Isafjord ...	1019·9	30	0	NE	8	S
Reykjavik	1004·3	30	+2	N	6	b
Vestmanna	1005·3	30	-4	N	1	b
Seydisfjord	1008·2	30	+5	NE	4	S
Thorshavn	978·6	45	+7	NE	6	r

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	1	2	51	42	cr	o	0·0
	Banff	4	1	52	41	bc	c.or bc	5·1
	Montrose	1	1	47	42	pq	opq	0·8
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	1	Trace	46	41	r.bc.b	bc.b.	5·0
	Skegness	Trace	-	50	42	b.bc	b.bc.b	6·3
Eng. N.W.	Morecambe	1	-	49	48	c.bc.c.	c.bc	1·0
	Southport	2	-	49	47	c.bc.c.	c.bc	4·2
Midlands.	Leamington Spa							
	Malvern	1	-	50	41	b.bc	bc.b.	8·2
	Ross-on-Wye	Trace	-	52	42	bc.b	b.bc	7·4
Wales.	Rhyl	3	-	48	43	or.c	bc	5·3
	Colwyn Bay...	*	*	48	45	bc	bc	5·8
	Llandudno	*	*	51	47	b	b	6·2
	Aberystwyth	*	*	52	45	r.o.c	c.b.o	4·5
	Tenby	1	0·1	52	45	bc	bc op	4·7

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	b	-	53	45	bc	b.bc	5·0
	Felixstowe	1	-	53	40	bc	bc.b	7·1
	Walton-on-Naze							
	Southend-on-Sea	Trace	-	53	46	bz	b	7·6
England, S.E.	Margate	2	-	55	46	b.	b.	7·0
	Ramsgate	7	-	55	45	bc	bc	6·2
	Hastings	5	5	54	45	or.b	b.bc op	7·1
	Eastbourne	5	2	53	46	b.bc	bc opr	6·9
	Seaford	*	*					
	Brighton	2	-	53	48	b.bc	bc	5·1
	Worthing	2	-	54	46	b.bc	bc	6·4
	Littlehampton	Trace	-	53	46	b	b	7·0
	Bognor	*	*	54	49	bc	bc.o	6·1
	Bournemouth	1	-	53	45	bc	bc	7·4
England. S.W.	Weymouth...	*	*	55	48	bc	bc	5·8
	Torquay	1	Trace	53	45	b.bc p	bc.c.o	5·3
	Paignton	*	*	54	46	p. bc	bc	5·4
	Penzance	1	Trace	53	46	bc. c	c.or	5·5
	Newquay	1	1	52	47	p.bp.	b	4·1
	Bude	1	1	52	46	bc.c	bc.c	3·1
	Ilfracombe	2	1	51	45	cp.	cp.	2·4
	Weston-s-Mare	-	2	52	42	b.bc p.b	bp.bc	2·0

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

7th & 8th November 1916.	Sunrise. G.M.T.	Noon. G.M.T	Sunset. G.M.T
Yarmouth	7.0 / 7.2	11.37 / 11.37	4.14 / 4.12
Greenwich	7.5 / 7.7	11.44 / 11.44	4.23 / 4.21
Wick	7.44 / 7.46	11.55 / 11.56	4.8 / 4.6
Valencia	7.47 / 7.49	0.25 / 12.25	5.3 / 5.1

NOTES ON YESTERDAY'S WEATHER.

Rain fell at some stations, chiefly in the night; 23 mm. were measured at Falmouth. The day was bright in most districts with about 7 hours of sunshine in the South East of the country and 8·2 hours at Malvern.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 313. Wednesday, 8th November

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	973·8	48	SSE	7	orq	974·7	0	49	+ 1	SE	5	—	omq	5	10	49	46	oqp	oqr	omq	0
	Deerness (Orkney)	972·9	47	—	0	oge	974·9	*	44	− 2	W	1	—	c	2	3	49	43	bc	c or	o. c	0 . 0
	Stornoway ...	972·8	43	SSW	2	o	974·3	+ 2	43	− 1	NW	1	—	c	1	1	46	39	c. op	o dp	bc. c	0 . 0
	Castlebay (Barra Isd.)	973·6	45	ENE	1	o	975·7	+ 2	47	0	WNW	4	w	cp	4	3	49	44	o c o	op	c. cp	0 . 2
	Glasgow ...	974·1	40	NW	1	om	977·6	+ 2	37	− 2	E	1	w	cm	*	4	41	34	omp	o m g	cm. bom	0 . 0
	Eskdalemuir ...	974·0	44	S	1	or	978·2	+ 4	36	− 3	—	0	—	o	*	16	48	35	o. or	ogr or	er od. o	0 . 1
	Malin Head ...	974·1	43	WSW	3	bc	976·9	+ 3	47	+ 8	NW	5	SW	omr	6	7	46	38	cmd	cmr	omr	0 . 0
	Blacksod Point	975·9	45	W	2	cp	983·1	+ 5	46	+ 6	NW	6	NW	cmr	4	4	46	40	cgp	bcp	bcp. cp	*
	Valencia ...	978·8	46	NW	2	c	988·9	+ 7	48	0	WNW	4	NW	op	4	4	50	45	o. cv	o. cv	c op	0 . 4
	Roche's Point	977·2	45	NNW	3	bc	986·6	*	46	− 4	NW	3	NW	c	3	7	52	43	c. op	o c. bc	bc. b. bc	*
	Birr Castle ...	976·9	42	SW	1	o	984·2	*	43	− 5	W	2	—	o	*	1	48	39	o	o	cp. o	0 . 0
	Donaghadee ...	973·8	46	N	3	ogmp	978·7	+ 2	40	− 6	W	3	—	bcm	2	2	47	40	omr	ogmp	cm. bcm	*
	Liverpool (Bidston)	975·9	47	SSE	2	r	979·3	+ 5	43	− 6	WSW	4	W	r	3	5	53	42	o. bc	op	or	1 . 2
	Holyhead ...	975·4	47	WSW	4	omr	980·3	+ 2	47	− 5	WNW	5	W	og	4	7	54	45	bcp. cm	cm. omr	c. obd. o	15 . 0
	Pembroke (St. Ann's)	976·9	52	SW	4	c qp	983·2	+ 2	49	− 4	W	5	NW	cqp	5	4	54	46	cq. oqp	cqp	cp. cqp	0 . 5
	Scilly (St. Mary's)																					
	Falmouth ...	979·4	49	SSW	4	cp	987·0	+ 5	47	− 6	W	4	—	c	*	31	56	44	ctlrh	bcq. cp	rcq. op	2 . 0
	Jersey (St. Aubin)	978·6	57	SW	4	o	988·0	*	50	− 4	W	6	—	oqp	4	9	59	49	oqrlr	or. bc. o	o. c. qp	2 . 5
	Portland Bill ...	980·8	55	SW	6	c	984·4	+ 7	50	− 1	W	5	W	c	5	10	57	48	cp	c	cp	*
	Dungeness ...	983·1	54	SSW	5	c	979·4	− 2	50	0	SW	8	SW	bcq	7	15	55	49	o. cr	r. o. c	plr. bc	*
	Dover	983·5	52	S	6	r	980·8	+ 1	50	+ 3	SW	6	SW	o	6	19	54	47	op. r	op. r	orlrh	0 . 0
	Wick	977·8	44	WNW	2	o	974·5	+ 1	40	− 6	WNW	1	—	o	3	1	46	37	bc opg	omfd	m. og	*
	Nairn	973·4	41	—	0	og	975·2	*	30	−12	—	0	—	bc	1	1	42	29	bc. cd	d. o	c. bcx	0 . 0
	Aberdeen ...	973·7	44	SW	1	omp	975·6	+ 2	41	− 4	WSW	1	SW	bcm	3	3	49	41	or. c. o	op bcm	cmp. bc	0 . 1
	Leith	973·4	44	W	1	o	976·3	+ 2	38	− 3	W	1	W	bc	2	5	42	37	r od. o	od. om	od. obc	*
	Tynemouth ...	975·6	51	S	2	ogm	976·6	+ 2	45	− 1	W	2	W	cm	3	Trace	53	44	omq	ogm	cmp	*
	Spurn Head ...	978·4	47	SSW	5	c	977·5	0	45	− 1	SW	2	—	o	5	3	49	45	oq	oqr. c	c	0 . 0
	Yarmouth ...	981·6	52	SSW	6	omqr	978·0	− 1	48	− 2	SW	1	—	cmd	3	3	52	47	omp. cq	cq. omr	bc. cmd	0 . 0
	Clacton-on-Sea	981·8	52	SSE	4	r	978·7	− 1	49	− 1	WSW	2	W	c	3	19	52	48	ogr	ogp	ogrrl	0 0
	Nottingham ...	978·0	49	SW	1	c	979·8	*	46	− 5	W	3	W	o	*	4	55	45	o. bc. or	r. o. cp	cp	1 . 8
	Benson (Ozon.) ...	980·1	50	S	3	b	981·4	+ 7	45	− 6	W	3	—	o	*	8	56	45	op	rr. p	or	*
	Sth Farnborough	981·9	52	SW	4	b	981·4	+ 7	47	− 4	W	3	—	or	*	16	56	46	r op. o. c	c. op bcl. b	b. or	0 . 8
	London (Kew Obsy.)	981·1	52	SSW	3	b	981·0	+ 8	48	− 3	W	3	—	or	*	13	57	46	or d. cd. o	o fu prh. o b	b. bc. or	0 . 8
NORTHERN EUROPE.	Spitsbergen ...	1027·9	−15	—	0	b	1026·0	+ 1	−13	0	S	1	*	b	*	*	−13	−17				
	Vardö	999·4	34	—	0	b	1006·9	− 3	36	+ 2	NE	3	—	o	3	*	36	27				
	Bodö	997·0	41	E	3	r	998·9	0	39	− 4	E	1	—	bc	1	8	41	37				
	Christiansund ...	995·4	45	SE	1	b	999·5	− 1	46	0	SE	2	—	c	3	—	48	41				
	Skudesnaes ...	985·9	46	SE	8	r	981·1	− 1	48	+ 2	ESE	3	—	o	5	4	48	43				
	Færder (X'tania Fjord)	999·0	46	SE	7	o	999·0	− 4	46	0	ESE	7	—	r	4	4	46	45				
	The Scaw (Skagen)	999·3	48	S	4	r	988·0	− 1	48	+ 2	SSE	5	—	o	5	2	48	41				
	Blaavands Huk	992·8	46	SE	6	r	985·0	0	48	+ 2	S	3	—	o	4	8	50	45				
	Copenhagen ...	1001·9	48	ESE	4	c	991·7	− 2	48	+ 2	S	4	—	r	*	3	48	46				
	Bornholm ...	1006·3	46	S	4	m	995·8	− 2	46	0	S	7	—	r	3	—	50	45				
FRANCE, &c.	The Helder ...	986·9	45	S	6	r	982·0	− 2	48	+ 3	SSE	4	—	c	3	12	52	45				
	C. Gris Nez ...	984·7	51	S	4	o	980·7	− 1	51	+ 5	WSW	7	*	o	7	18	52	46				
	La Hève	?	51	SW	6	c	985·3	*	52	+ 3	WSW	6	*	o	6	10	55	49				
	Brest (St. Mathieu)	984·7	54	SW	5	c	992·8	+ 6	51	− 3	WNW	5	*	c	5	5	57	48				
	Rochefort (Ile d'Aix)	995·8	56	SW	7	o	996·2	+ 5	55	+ 5	WNW	7	*	o	*	21	59	48				
	Biarritz	1001·7	60	SW	1	f	1003·8	+ 4	59	0	W	6	*	r	4	5	64	54				
	Paris	991·0	54	SSW	5	o	989·1	+ 2	50	+ 4	SSW	4	—	r	*	12	55	45				
	Belfort	1002·9	46	E	2	o	999·4	*	48	+ 11	W	2	*	o	*	10	49	39				
	Lyons	1004·3	52	S	5	r	1000·8	*	51	+ 15	SW	2	*	r	*	7	56	36				
	Nice	1013·2	52	E	1	o	1005·9	− 4	53	+ 4	—	0	*	r	4	18	59	46				
	Perpignan ...	1006·1	50	—	0	o	1002·6	+ 3	50	+ 7	W	2	SW	bc	*	—	59	43				
	Sanguinaire ...	*	59	E	3	o	*	*	58	-	S	4	*	r	4	3	64	54				
SOUTHERN STATIONS.	Corunna																					
	Madrid																					
	Lisbon	1012·7	64	SSW	6	o	1017·1	+ 3	59	− 5	WNW	4	—	b	?	1	66	59				
	Azores (Horta) ...	1019·4	*	NNW	4	c	1022·0	− 1	63	+ 3	ESE	5	*	o	3	—	64	57				
	Madeira	1020·0	72	W	2	c	1022·6	+ 2	66	+ 2	N	3	—	b	4	—	73	64				
	Gibraltar	1018·6	63	W	4	o	1017·6	*	60	+ 7	W	7	*	r	2	3	69	52				
	Malta	*	*	*	*	*	1016·2	0	61	− 2	—	0	—	o	!	—	68	59				
	Limassol	*	*	*	*	*	1016·0	+ 2	73	+ 5	ENE	4	—	b	4	—	75	57				
	Alexandria ...	1017·3	66	ENE	2	bc	1017·3	+ 1	70	+ 2	NE	2	NE	b	1	—	77	64				
	Cairo (Helwan) ...	1014·7	66	NE	5	b	1015·9	+ 2	66	0	—	0	—	b	*	—	79	59				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..7h 24m
Wind at
1050m WNW 18 m/s.
" 900 " WNW 18 "
" 600 " WNW 14 "
" 300 " W 11 "
Surface W S "

Lunar halo observed at 20h. (7th) at Jersey and London.

GALES
Duration and Extreme Force in British Islands.

Portland Bill
7th 7h.-8h. SW. 8.
Dungeness
7th 7h.-11h. SSW. 10.
8th 3h.-7h. SW 8
Dover
7th 9h.-11h. S 8
7th 10h. S. 9.
8th 6h.-7h. SW 8
8th 6h. SW 9
Spurn Head
7th 7h. SW 8
Yarmouth
7th 7h. SSW 9.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temp. Min.	Temp. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	89	88	1·9	58	46	40	18	o c	c ott	bc. or
CITY (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	81	86	1·3	57	41	39	13	bc	bc ru	r bcw
CAMDEN SQ. (British Rainfall) ..	81	88	1·5	58	46	42	22	o. c	o. otrhl	*
HAMPSTEAD (Reservoir)	*	90	1·0	55	43	33	21	0	c	or. c
S. KENSINGTON (Museum Grounds)	*	88	1·7	57	47	41	13	or. cp	c. oufr. bc	bc. or
RICHMOND PARK	*	*	1·2	*	*	*	*	*	*	*

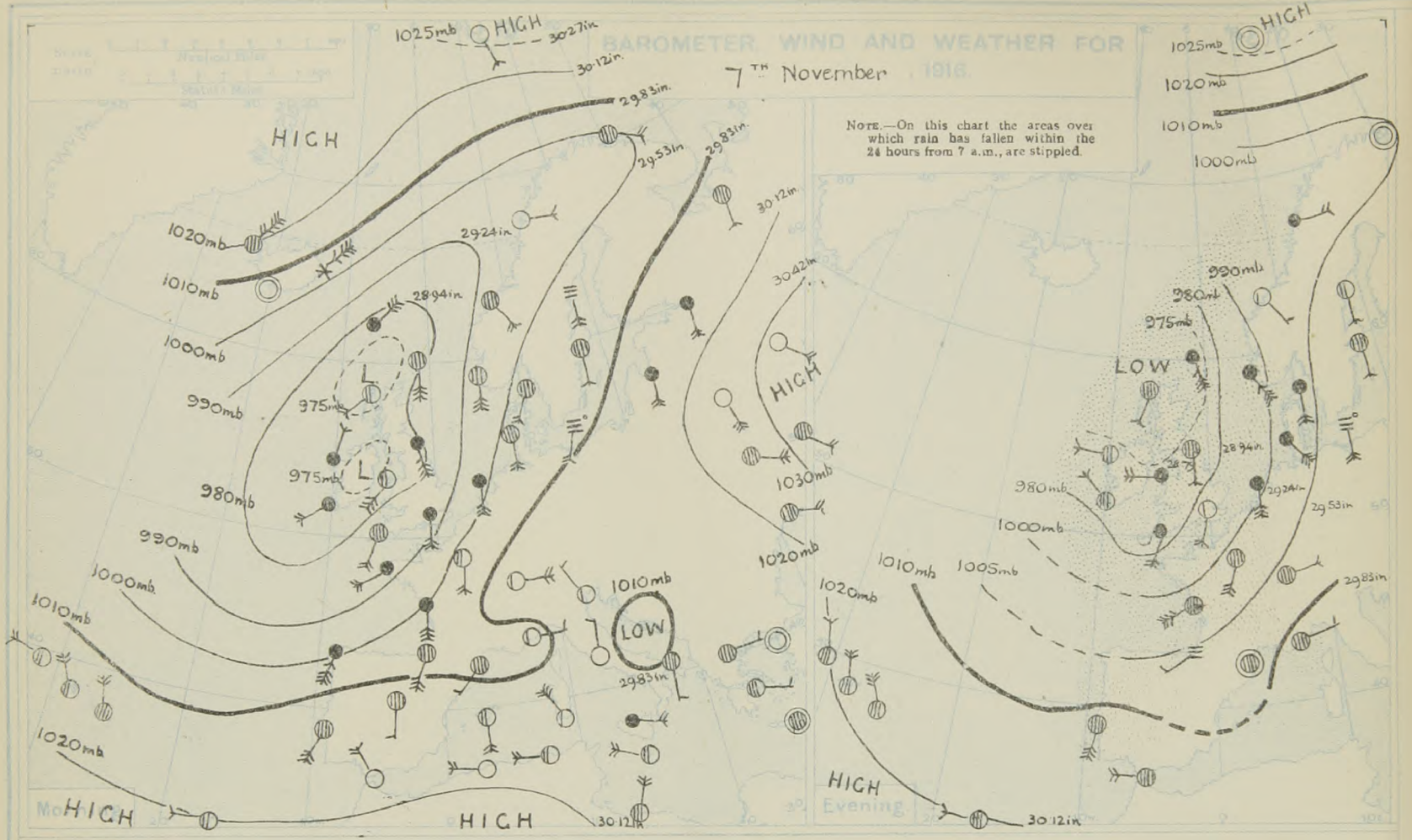
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
350	10·4	38

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* Received too late for insertion in Charts. † The barometric change is expressed in half-millibars.



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 at 1 h.

0a, 0b, 1 } Light Westerly winds, increasing somewhat; unsettled, showery; normal temperature.

2a, 2b, 3, 4a, 4b, 5 } Fresh Westerly winds; unsettled, showery, fair intervals; becoming rather colder.

6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b } Fresh Westerly or North-Westerly winds, strong at times; weather improving, some showers; becoming colder.

Western Channel and Bay 11 } Fresh or strong Westerly or North-Westerly winds; rather rough sea; fair, some showers.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 8TH NOVEMBER, 1916.

GENERAL INFERENCE.

With the general rise of pressure there seems more chance of settled conditions setting in than of late.

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 ≈≈≈.

Scale of Tints for NOVEMBER.

Normal Temperature of the Sea.

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale 1 : 2 x 10⁶
Nautical Miles
Statute Miles

Issue No. 20,075. **DAILY WEATHER REPORT.** Wednesday, 8th November **1916.**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1017·0	34	SE	2	r	1011·7	-2	34	-3	S	2	o	1	*	32
	Gorki	1028·1	37	SSE	5	b	1023·8	+1	43	+9	SSE	5	b	-	*	34
	Velieki Luki ...						1023·9	*	36	-	SE	4	o	-	*	34
	Hangö														*	
	Riga	1013·2	41	S	4	o	1015·0	+1	41	+2	S	4	r	4	*	39
	Petrograd ...	1016·0	37	SSE	2	bc	1016·7	+2	39	+2	S	4	r	-	41	36
	Moscow	1033·2	34	SE	2	b	1033·0	+2	28	0	SSE	3	b	-	*	27
	Kiev	1025·7	42	ESE	3	o	1025·2	0	32	-	ESE	3	o	-	*	23
	Kharkov ...	1032·6	34	SSE	3	b	1032·2	+1	32	+14	SE	3	o	-	*	28
	Kishinev ...	1021·1	43	SE	2	o	1020·0	0	43	-	E	2	o	-	*	39
	Elisabetgrad ...	1025·7	42	ESE	3	o	1025·2	0	32	-	ESE	3	o	-	*	23
	Nicolaiev ...	1023·4	43	E	2	c	1023·2	*	34	-	E	2	b	-	*	34
	Odessa	1022·7	46	ESE	3	o	1021·9	0	45	-	ESE	3	o	-	*	41
	Tarkhankout...	1021·2	45	E	4	b	1021·0	*	43	-	NE	2	b	-	*	39
	Soukhoum ...	1016·6	53	NNE	2	b	1019·3	+2	50	-	NNE	2	b	-	*	48
Mediterranean.	Venice	1009·2	55	-	0	bc	1012·7	*	50	-5	-	0	b	7	64	48
	Pesaro	1009·6	59	SE	6	o	1009·5	*	57	+2	W	1	o	2	64	55
	Rome	1010·8	56	E	1	o	1012·4	*	52	-9	N	1	b	17	63	50
	Viesti	1009·7	59	SE	6	o	1009·5	*	57	-4	W	1	o	2	64	57
	Brindisi	1007·9	66	SSW	5	c	1010·6	*	61	-2	S	1	o	50	66	61
	Cagliari	1011·6	66	NW	4	o	1018·7	*	54	-10	NW	5	b	4	72	46
	Palermo	1012·7	59	-	o	o	1013·2	*	57	?	ESE	3	r	12	73	54
	Tripoli	1018·7	64	SSW	2	o	1017·2	*	68	+7	NNE	4	c	-	79	61
	Algiers	1019·9	59	WNW	1	o	1018·6	D	68	+11	W	3	b	-	68	55
Sweden.	Hernösand ...	1006·4	41	-	o	f	1001·2	*	43	+2	S	4	f	*	*	*
	Stockholm ...	1003·5	45	S	2	o	1007·4	*	43	-3	S	2	o	*	*	*
	Wisby	1005·1	48	S	2	bc	1008·8	*	46	-2	S	2	c	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1019·9	28	-2	NE	9	o
Reykjavik	1009·0	34	+4	NNE	1	b
Vestmanna	1004·3	34	+4	-	o	b
Seydisfjord	1007·3	30	o.	NE	8	s
Thorshavn	976·2	45	o.	NE	6	r

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	7	2	49	38	op	c	00
	Banff	-	-	47	39	op r c	c o.	00
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	7	-	53	37	o. c	c. o	0·2
	Skegness	6	10	54	42	o. bc	o g t l r. b	0·9
Eng. N.W.	Morecambe	2	1	49	42	-	-	0·1
	Southport	8	3	53	40	or	or	0·5
Midlands.	Leamington Spa							
	Malvern	9	5	52	40	or	r c. bc	00
	Ross-on-Wye	15	8	53	44	or	or	0·4
Wales.	Rhyl	4	1	54	41	cr. o	c. b c p.	1·3
	Colwyn Bay...	*	*	54	?	cp.	p o r.	1·5
	Llandudno	*	*	55	43	p.	p r.	1·2
	Aberystwyth	*	*	54	46	r o c	c. o.	1·0
	Tenby	6	1	55	44	bc c p	bc. c r	0·4

	STATIONS.	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	9	Trace	52	43	o q r	o p c	00
	Felixstowe	11	2	52	45	o q p	o q p	00
	Walton-on-Naze							
	Southend-on-Sea	1	Trace	53	45	o	o r	0·2
England. S.E.	Margate	5	1	54	50	r	o	00
	Ramsgate	8	1	54	45	r	r	00
	Hastings	6	1	55	47	o r. o	o p. a	00
	Eastbourne	6	2	55	43	o g	o p r	00
	Seaford	*	*	56	48	o	c	00
	Brighton	4	1	55	50	o	o	0·0
	Worthing	8	Trace	55	48	o	o	00
	Littlehampton	8	1	52	43	o	o p	0·1
	Bognor	*	*	56	49	b c r	b c r	0·3
	Bournemouth	12	1	59	47	o c	o. c. o	2·2
England. S.W.	Weymouth...	*	*	57	49	o. c. b c	b c. c.	0·5
	Torquay	27	2	57	48	o r	c o p.	1·2
	Paignton	*	*	58	42	o. c. r	c p	2·2
	Penzance	20	2	56	48	o r. b c	o r	1·2
	Newquay	11	12	57	44	r	r	0·8
	Bude	5	6	57	47	r	r	1·9
	Ilfracombe	11	9	55	45	c p	c p.	0·1
	Weston-s-Mare	2	3	54	43	r. c p.	b o p. c	0·2

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

8th 9th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.2	11.37	4.12
	7.4	11.37	4.10.
Greenwich	7.7	11.44	4.21
	7.6	11.44	4.19
Wick	7.46	11.56	4.6
	7.49	11.56	4.3
Valencia	7.49	12.25	6.1
	7.51	12.25	4.59.

NOTES ON YESTERDAY'S WEATHER.

Rain fell generally, heavily in many places, 31 mm. at Falmouth. Sunshine was scanty. Night temperature fell to 29° at Nairn.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 314. Thursday, 9th November

	STATIONS	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	980.2	47	S	2	o	989.2	+ 4	48	− 1	NNE	1	–	om	1	4	49	46	om	omd	om	*
	Deerness (Orkney)	979.7	44	–	o	c	990.8	*	45	+ 1	W	2	–	o	2	–	47	41	ce	ce	c bc b o	1.0
	Stornoway ...	979.6	42	SSW	1	b	991.6	+ 6	42	− 1	–	o	–	c	o	0.2	50	37	bc b	b	bc.o.c	4.3
	Castlebay (Barra Isd.)	978.1	49	WNW	4	o	993.4	+ 8	49	+ 2	W	3	–	cp	3	3	51	44	cz c cp	cp bc o	bc.o.cp	2.7
	Glasgow ...	981.9	45	SW	3	cm	991.0	+ 3	45	+ 8	SW	2	–	omg	*	2	48	36	om bcp	c cp	cp.omp	2.1
	Eskdalemuir ...	984.0	43	SW	4	od	993.7	+ 2	43	+ 7	SSW	4	–	od	*	2	47	35	cp	o c opd	o.bc od	2.1
	Malin Head ...	983.0	46	W	6	omqp	994.0	+ 8	47	0	NW	7	NW	bcqp	8	10	47	44	cqp	omqp	bcqp	0.0
	Blacksod Point	992.0	45	NW	8	bcqmp	1002.9	+ 5	46	0	NW	7	NW	bcmqp	7	4	46	40	bcqmp	bcqmp	bcqp	*
	Valencia ...	1000.7	47	WNW	6	b	1010.7	+ 5	48	0	WNW	6	–	cp	5	4	49	43	o.cp	c b.ph	bcpq	2.9
	Roche's Point	998.8	45	NW	4	bc	1009.2	*	44	− 2	WSW	3	W	c	3	1	49	42	cpq	cpq bc	b.bc.c	*
	Birr Castle ...	994.5	43	WNW	3	c	1004.9	*	45	+ 2	W	3	–	o	*	1	47	40	c	cp	c.o	3.2
	Donaghadee ...	984.9	46	W	5	omq	995.2	+ 5	46	+ 6	WNW	5	W	bcmqp	4	3	49	40	bcm	bcq op	bcqpm	*
	Liverpool (Bidston)	989.0	45	WSW	5	r	999.8	+ 5	46	+ 3	WSW	5	W	? o	4	5	50	42	or	opq	oq	1.1
	Holyhead ...	990.4	48	WNW	7	cqg	1000.5	+ 3	48	+ 1	WNW	8	NW	oq	7	Trace	50	46	c bc c	cqg	cp oq	2.1
	Pembroke (St. Ann's)	993.4	49	W	5	bcqp	1006.9	+ 8	48	− 1	W	5	NW	bcq	6	2	52	47	bcq	bcqp	bcq	4.6
	Scilly (St. Mary's)																					
	Falmouth ...	999.0	47	WNW	6	cpq	1010.2	+ 6	43	− 4	WNW	5	–	bc	*	17	51	41	c bc r p	o cphq	cqp.bc	1.0
	Jersey (St. Aubin)	996.9	50	WNW	5	bcqp	1010.1	*	45	− 5	WNW	3	W	bc	3	6	55	45	o.c.oqp	cqp.bc	qp.b bc	3.7
	Portland Bill ...	994.7	51	NW	5	bc	1008.1	+ 8	48	− 2	WNW	4	NW	bc	5	1	54	48	cp	bcp	bcp	*
	Dungeness ...	991.2	49	W	3	bc	1005.1	+ 7	42	− 8	W	3	–	b	3	–	54	41	bc	bc	c.b	*
	Dover	993.8	47	W	3	b	1005.6	+ 5	40	− 10	W	4	–	b	4	–	52	39	c bc.c	c bc bm	b	4.2
	Wick	979.7	40	–	o	c	991.1	+ 6	42	+ 2	WNW	1	–	o	2	–	49	36	o.bcm	bcm	bcm.oq	*
	Nairn	979.9	44	–	o	cg	991.6	*	43	+ 13	–	o	–	oq	1	0.4	46	29	bc o	o c	bc.cp	0.0
	Aberdeen	980.9	44	–	o	o	991.7	+ 6	41	0	SW	1	–	cz	2	–	48	39	bcm.b	bq oz	oz.bc	5.7
	Leith	981.7	45	W	1	c	991.3	+ 1	45	+ 7	SW	1	SW	c	2	–	48	37	bc.c bc	bc.b.c	c b bc c	*
	Tynemouth ...	983.9	46	W	2	bm	994.9	+ 4	44	− 1	SW	2	SW	bcm	3	–	48	41	cm	cm	bcm	*
	Spurn Head ...	987.1	49	W	4	c	999.1	+ 1	45	0	W	4	W	bc	5	–	50	43	o.c	c	bc	2.3
	Yarmouth ...	988.5	47	WSW	2	bc	1003.3	+ 5	43	− 5	WNW	2	–	bc	2	0.4	50	42	cmd bc	bcm	b.bc	0.5
	Clacton-on-Sea	990.5	49	WSW	2	bc	1004.4	+ 8	40	− 9	W	2	W	bc	2	2	50	40	c	c.bc	bc	0.3
	Nottingham ...	989.6	45	W	2	c	1001.4	*	43	− 3	W	3	W	bc	*	1	51	42	o.c	o.cp	c	2.3
	Benson (Oxon.) ...	992.2	46	W	1	bc	1005.4	+ 7	40	− 5	WSW	3	–	b	*	–	52	40	o.c	bc	b	*
	Sth Farnborough	992.2	45	W	3	b	1005.8	+ 5	37	− 10	WSW	2	–	b	*	Trace	52	37	r.c.o	o.c.o.b	b	3.0
	London (Kew Obsy.)	992.5	48	WSW	2	c	1005.8	+ 7	39	− 9	SW	2	–	bm	*	1	51	39	or.bc.o	o bc c	c bc bbm	2.9
NORTHERN EUROPE.	Spitsbergen ...	1028.0	−11	S	1	b	1026.4	− 2	−9	+ 4	SSE	2	*	c	*	*	−9	−15				
	Vardö	1014.3	32	NE	2	o	1011.3	− 5	34	− 2	SE	3	–	r	4	*	36	19				
	Bodö	998.3	43	E	4	b	993.9	0	45	+ 6	S	1	–	bc	1	–	48	39				
	Christiansund ...	987.0	46	–	o	c	991.1	+ 2	43	− 3	–	o	–	b	3	–	50	41				
	Skudesnaes ...	982.6	48	SE	5	r	989.7	+ 5	48	o	SW	4	–	o	5	22	48	46				
	Færder (X'tania Fjord)	989.0	48	SSE	5	r	993.0	+ 6	48	+ 2	SSW	5	–	o	3	22	48	46				
	The Scaw (Skagen)	987.7	50	SSE	4	o	995.9	+ 7	46	− 2	SSW	5	S	bc	5	6	50	46				
	Blaavands Huk	985.1	48	S	3	o	998.3	+ 4	48	o	WSW	2	–	c	3	2	52	46				
	Copenhagen ...	991.5	52	S	3	r	1002.7	+ 6	48	o	WSW	3	–	m	*	1	52	46				
	Bornholm ...	995.3	52	S	6	m	1004.7	+ 6	46	o	SSW	3	–	m	1	1	52	45				
FRANCE, &c.	The Helder ...	988.8	50	WSW	5	o	1001.5	+ 6	50	+ 2	WSW	5	–	bc	4	2	54	49				
	C. Gris Nez ...	992.0	51	W	5	o	1006.3	+ 8	46	− 5	W	6	*	b	5	Trace	52	46				
	La Hève	?	48	WNW	6	c	?	*	48	− 4	NNW	6	*	o	6	8	57	45				
	Brest (St. Mathieu)	1001.3	51	NW	6	c	1013.7	+ 5	49	− 2	NW	6	*	c	5	3	52	46				
	Rochefort (Ile d'Aix)	1005.3	55	WNW	7	c	1014.6	+ 4	49	− 6	NNW	4	*	c	*	9	61	46				
	Biarritz												*									
	Paris	998.6	48	SW	3	b	1009.0	+ 5	45	− 5	W	2	–	bc	*	2	57	43				
	Belfort	1002.6	45	W	5	c	1010.6	*	41	− 7	W	4	*	o	*	4	52	40				
	Lyons							*					*		*							
	Nice	999.3	55	–	o	c	1001.0	+ 2	48	− 5	? –	? o	*	? b	3	8	61	45				
	Perpignan ...	1006.9	54	NW	4	b	1011.8	+ 1	50	o	NW	4	NW	b	*	–	61	48				
	Sanguinaire ...	*	62	SW	4	f	*	*	60	+ 1	SW	2	*	f	5	15	63	52				
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1017.7	*	SE	9	o	1013.3	− 1	68	+ 5	S	9	*	o	6	–	68	66				
	Madeira																					
	Gibraltar	1022.7	60	NW	5	b	1024.7	*	53	−7	NW	4	*	b	4	1	67	53				
	Malta	*	*	*	*	*	1004.4	− 3	70	+ 9	SSW	2	–	bc	1	–	70	61				
	Limassol	*	*	*	*	*	1015.0	0	73	0	E	1	S	o	5	–	81	70				
	Alexandria ...	1016.2	68	NNE	2	c	1016.0	0	72	+ 2	NW	2	W	bc	1	–	75	66				
	Cairo (Helwan) ...	1015.0	70	NW	2	b	1016.0	+ 3	66	0	–	0	–	o	*	–	79	63				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7h 9m
Wind at 4,300 NWbyW 6 m/s
4,000 WNW 7
3,700 W 8
3,400 W 8
3,000 W 9
2,700 W 9
2,400 WbyN 11
2,100 WbyN 11
1,800 WNW 13
1,500 NWbyW 13
1,200 WNW 14
900 WNW 14
600 WNW 13
300 WbyN 12
Surface WbyS 5

GALES
Duration and Extreme Force in British Islands.

Blacksod Point.
8th 14h. – 9th 4h. NW. 8.
9th 1h NW. 9.

Holyhead.
8th Late evening – 9th 7h. WNW. 8.

Dungeness.
8th 7h – 8h SW. 8.

Lunar Halo observed in London from 18h – 19h.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday. %	Humidity: 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature: Max. °F.	Temperature: Min. °F.	Temperature: Min. on Grass. °F.	Rainfall. mm.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
GREENWICH (Royal Observatory)	78	84	2.7	52	39	33	–	c	c	b bc
CITY (Bunhill Row)	*	*	1.3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	68	85	2.6	53	39	32	L	o	u bc	b.bm
CAMDEN SQ. (British Rainfall) ..	75	87	1.9	52	38	35	–	b.o	bc.c	*
HAMPSTEAD (Reservoir)	*	84	2.0	50	36	25	Trace	b	b	bx.bm
S. KENSINGTON (Museum Grounds)	*	86	2.4	52	40	32	Trace	o.c	bc c	b bz
RICHMOND PARK	*	*	3.1	*	*	*	*	*	*	*

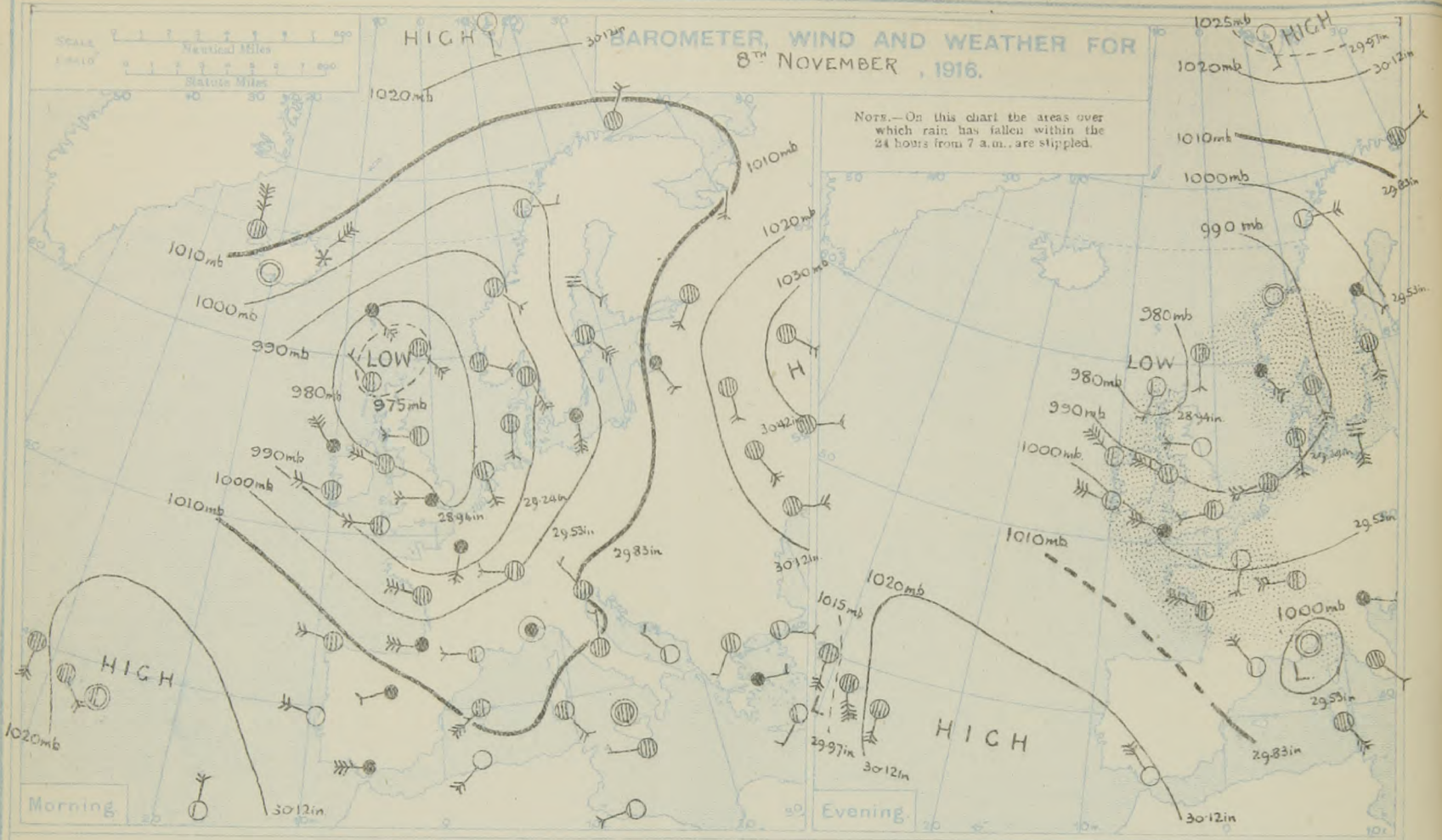
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules. 400	Milliwatts. 12.0	Milliwatts. 34

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.



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.

Cones Hoisted at 14h.

0 a, b; 1		Light or moderate Westerly winds; fair weather, but some showers; cool.
2 a, b; 3; 4 a, b; 5		Moderate Westerly winds, fresh at times; fair weather; cool.
6 a, b		Moderate Westerly winds, increasing somewhat; fair, but some showers; cool.
7 a, b; 8 a, b; 9 a, b; 10 a, b		Strong North-Westerly winds, moderating later; fair generally, but some showers; rather cool.
Western Channel and Bay	11	Fresh or strong North-Westerly winds, moderating later; rather rough sea; fair, but some showers.

FURTHER OUTLOOK.

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

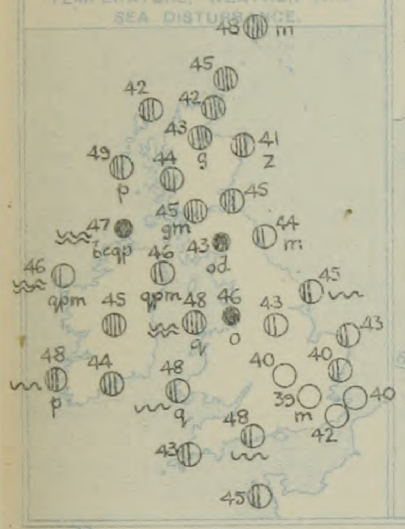
NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 9TH NOVEMBER, 1916.

GENERAL INFERENCE.

With the general rise of pressure, finer weather than of late is likely to prevail during the coming 24 hours.

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. ⊤R, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

1025mb 30·27in
1020mb 30·12in
1015mb 29·97in
1010mb Barometer 34 29·83in
1005mb falling 29·68in
1000mb 29·53in
995mb
990mb 29·38in
LOW 29·24in
1000mb
1005mb
1010mb
1015mb rising
1020mb
LOW Bar. falling slowly 68
HIGH 53
generally
LOW 60
29·97in
30·12in
29·83in
29·68in
70

Scale 1 : 2 x 10⁶
Nautical Miles 0 200
Statute Miles 0 200

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

Issue No. 20,076

DAILY WEATHER REPORT.

Thursday, 9th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					÷	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...		37	SW	3	r	1009·9	+2	36.	+2	SSW	3	r	8	*	36.
	Gorki	10230	34	S	3	r	1020·7	0	34	-9	S	3	o	-	*	32.
	Velieki Luki ...	1021·6	37	SE	3	o	1021·6	*	36	0	SE	2	o	-	*	36.
	Hangö														*	
	Riga	1013·9	43	S	2	o	1012·2	+2	43	+2	SSE	3	r	5	*	43
	Petrograd ...	1015·1	39	S	4	o	1016·8	+2	41.	+2	SSW	3	o	1	41	39.
	Moscow	1032·6	30	SSE	3	b	1030·1	+1	28	0	SSE	3	o	-	*	27.
	Kiev	1025·5	37	SSE	3	o	1023·3	0	37	+5	SSE	4	o	-	*	34.
	Kharkov ...	1030·4	37	SE	2	o	1028·8	0	36	+4	ESE	2	o	-	*	36
	Kishinev ...	1020·8	45	ESE	2	o	1019·3	0	45	+2	SE	2	o	-	*	41.
	Elisabetgrad ...	1025·3	39	E	3	bc	1024·2	0	37	+5	SE	3	o	-	*	36.
	Nicolaiev ...	1023·3	41	E	2	b	1025·1	*	45	+9	E	2	o	-	*	34
	Odessa	1023·1	46	ESE	3	o	1022·7	0	46	+1	ESE	3	o	-	*	34.
	Tarkhankout...	1021·9	48	ESE	4	b	1022·3	*	52	+9	E	1	o	-	*	45.
	Soukhoum ...	1020·6	54	NNE	2	b	1021·1	0	55	+5	NNE	1	o	1	*	50.
Mediterranean.	Venice	1012·3	74	-	0	o	1011·6	*	50	0	-	0	o	-	68	48
	Pesaro	1013·2	50	-	0	b	1009·7	*	52	-5	-	0	o	-	61	45
	Rome	1013·6	55	N	1	b	1013·5	*	48	-4	-	0	o	-	64	45
	Viesti	1011·9	57	SSE	2	o	1012·3	*	57	0	W	1	b	-	64	55
	Brindisi	1012·3	61	S	1	o	1014·6	*	57	-4	NW	1	b	?	63	55
	Cagliari	1015·6	66	NW	3	b	1011·7	*	57	+3	SE	3	c	-	68	48
	Palermo	1015·7	61	SSW	2	b	1015·3	*	57	0	-	0	o	-	66	50
	Tripoli	1018·6	62	NNE	2	b	1018·0	*	59	-9	WSW	2	b	-	72	54
	Algiers	1016·2	64	WNW	1	c	1012·2	+2	66	-2	SW	4	b	-	70	59.
Sweden.	Hernösand ...	1003·0	41	S	2	bc	1001·4	*	41	-2	SE	2	f	*	*	*
	Stockholm ...	1007·3	43	S	2	o	1002·7	*	46	+3	SE	6	o	*	*	*
	Wisby	1008·4	46	S	2	o	1001·6	*	46	0.	SE	6	o.	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1019·0	28	0	N	9	o
Reykjavik	1007·5	32	-2	NNE	9	bc.
Vestmanna	1001·2	34	0	-	0	b
Seydisfjord	1006·9	28	+2	NE	8	s.
Thorshavn	977·9	47	+2.	SE	5	r

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	-	1	50	36	or	b.c.	2·4
	Banff	-	-	50	35	b	bc	6·4
	Montrose							
	Carnoustie	*	*					
	St. Andrews	-	-	50	35	b	c.	5·7
Eng. N.E.	Harrogate	-	1	50	40	b.bcp	c.bc.b	3·3
	Skegness	1	0·1	51	45	og.bc.	c.og.c	2·4
Eng. N.W.	Morecambe	3	1	50	41			3·4
	Southport	1	4	50	45	cp.oh.	cr.c.bc	1·2.
Midlands.	Leamington Spa							
	Malvern	1	Trace	54	44	b, bc	bc,b	2·8
	Ross-on-Wye	1	1	51	42	bc.cv.	c.bc.	1·8.
Wales.	Rhyl	4	4	51	44	or.c	or.c.	1·8
	Colwyn Bay...	*	*	49	44	cp	cp.	0·6
	Llandudno	*	*	50	45	r	c.	1·1
	Aberystwyth	*	*	51	46	r.o.c	c.o	0·0
	Tenby	1	Trace	52	41	b	bc.cp	3·9

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	4	Trace	49	46	or.b	c.bc.	0·4
	Felixstowe	13	1	50	49	op.bc.	bc.	0·9
	Walton-on-Naze							
	Southend-on-Sea	16	—	51	47	o.c	bc.c.	2·3
England. S.E.	Margate	10	—	53	48	c	bc.	1·9
	Ramsgate	8	-	52	48	o	bc.	2·2
	Hastings	5	-	55	46	or.bc.b	bc.	4·6
	Eastbourne	6	2.	54	48	bc.b.	bc.op.	5·0
	Seaford	*	*	55	48	c	r.c	5·1.
	Brighton							
	Worthing	11	-	55	46	bc	bc.	4·7
	Littlehampton	12	-	52	46	bc	bc	4·5
	Bognor	*	*					
	Bournemouth	16	1	52	43	c	c.	2·5
England. S.W.	Weymouth...	*	*	53	45	c.bcp.	bcp.c.	1·3
	Torquay	12.	1	54	44	cp	c.bc.	3·3
	Paignton	*	*					
	Penzance	6	3	53	47	cr	bc.cr.	3·0
	Newquay	8	3	52	45	p	p.bcp.	1·6
	Bude	8	Trace	57	48	o	bc.	2·9
	Ilfracombe	7	3	52	45	p.c	cp	0·6
	Weston-s-Mare	3	-	52	45	bcp.bc	b bc.	2·0

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

9th & 10th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7.14 / 7.16	11.37 / 11.37	4.10 / 4.8
Greenwich	7.9 / 7.11	11.44 / 11.44	4.19 / 4.17
Wick	7.49 / 7.51	11.56 / 11.56	4.3 / 4.1
Valencia	7.51 / 7.53	12.25 / 12.25	4.59 / 4.57

NOTES ON YESTERDAY'S WEATHER.

Rain fell yesterday at Western stations., 17 mm. at Falmouth. Sunshine measurements were fair and ranged up to 6·4 hours at Banff. Temperature fell to 29° at Nairn and to about 35° at several other 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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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 315. Friday, 10th November.

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS					Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1003·3	47	NE	2	om	1010·7	+ 1	47	− 1	S	1	—	o	1	1	49	44	om	omp	o	*
	Deerness (Orkney)	1004·4	47	W	1	oe	1010·8	*	48	+ 3	S	3	—	o	2	Trace	50	45	o . ce	c . oe	o	0 . 5
	Stornoway ...	1005·2	48	SSE	1	o	1010·0	0	47	+ 5	S	2	—	c	2	0·2	53	41	c . b	b e	o.cdp	4 . 4
	Castlebay (Barra Isd.)	1006·5	50	WNW	2	o	1010·8	+ 1	48	− 1	SE	5	—	o	5	1	51	46	c dp	o	o c o	0 . 3
	Glasgow ...	1007·6	48	W	2	cq	1015·1	+ 2	44	− 1	SW	2	—	om	*	0·2	50	44	om c bc	cqp	cz.om	3 . 6
	Eskdalemuir ...	1008·9	45	SW	2	od	1016·8	+ 2	41	− 2	SSE	2	—	o	*	2	49	41	or o cv	c bdp c	od.c.od	1 . 8
	Malin Head ...	1008·0	49	W	5	cmq	1009·6	− 3	44	− 3	S	5	—	omr	5	3	50	42	cq p	cmq p	omd	0 . 7
	Blacksod Point	1012·2	46	WSW	5	cg	1009·4	+ 2	53	+ 7	SSW	4	—	omd	3	4	53	43	cqp	cp	od.ofd	*
	Valencia ...	1017·2	45	SW	2	r	1016·9	+ 4	55	+ 7	SSW	3	—	op	0	11	56	44	c o	or	or. op	0 . 2
	Roche's Point	1017·8	47	W	2	o	1017·5	*	51	+ 7	SW	1	—	o	3	9	51	43	c . o	o	or. o	
	Birr Castle ...	1015·0	46	WSW	2	o	1014·0	*	50	+ 5	S	1	—	r	*	3	50	43	c	o	or om	1 . 3
	Donaghadee ...	1009·7	48	W	5	cgm	1014·0	− 2	46	0	SSW	3	—	ogmp	2	1	50	43	bcmq p	cgm	cmq or	*
	Liverpool (Bidston)	1012·6	48	WSW	4	o	1019·8	+ 1	44	− 2	SSE	1	SW	od	2	2	49	43	orq	od	o	0 . 0
	Holyhead ...	1013·0	49	NW	6	c	1016·8	− 1	49	+ 1	SSW	6	—	opdqm	5	1	50	48	o c	o c	b opdm	0 . 3
	Pembroke (St. Ann's)	1017·1	50	W	4	bc	1018·6	− 2	50	+ 2	SSE	4	—	op	4	2	52	46	beq	beq	c or op	4 . 2
	Scilly (St. Mary's)																					
	Falmouth ...	1020·1	46	W	3	bc	1021·2	− 1	51	+ 8	SSW	3	—	odm	*	7	51	42	bcp	bcc	bc odm	4 . 9
	Jersey (St. Aubin)	1019·2	50	WNW	3	b	1025·6	*	50	+ 5	SW	4	—	og	3	2	55	44	bcqh . b	bcp b	bc . op	5 . 5
	Portland Bill ...	1017·7	51	WNW	5	bc	1023·1	+ 1	50	+ 2	SSW	4	SW	or	4	0·3	52	47	bc	bc	bc cor	
	Dungeness ...	1016·6	48	W	3	b	1024·8	+ 5	43	+ 1	W	1	—	b	1	—	53	39	bc	c b	b bcx	*
	Dover	1017·2	45	W	3	bc	1024·9	+ 3	44	+ 4	WSW	1	W	bc	2	—	51	40	b	b	b	8 . 0
	Wick	1004·6	44	WNW	1	c	1010·9	+ 1	47	+ 5	SSW	2	—	o	2	—	49	38	o. cq	c	bow. o	*
	Nairn	1005·3	42	—	0	bc	1011·7	*	46	+ 3	—	0	—	og	1	—	49	37	o . c	c . bc	x.bc c	0 . 4
	Aberdeen	1006·7	46	WNW	2	o	1013·3	+ 1	39	− 2	WNW	2	—	oz	2	—	49	37	cz . o	o. bc. o	e. c b. o	0 4
	Leith	1007·0	48	SW	1	o	1015·1	+ 2	47	+ 2	SW	1	W	c	2	—	49	44	c . o. bc	bc. c o	o c o. c	*
	Tynemouth ...	1008·0	47	W	2	bcm	1017·2	+ 3	48	+ 4	SW	2	—	cm	3	—	50	44	cm	bcm	cm	*
	Spurn Head ...	1009·5	48	WNW	3	o	1020·5	+ 2	45	0	WNW	4	—	bc	5	—	49	43	bc	bc . o	o . c	2 . 7
	Yarmouth ...	1010·0	47	W	2	bc	1024·2	+ 2	42	− 1	W	2	—	b	2	—	51	41	bc	bc	bc . b	6 . 7
	Clacton-on-Sea	1015·0	48	W	2	c	1024·1	+ 3	42	+ 2	W	2	NW	c	1	—	50	40	bc bm	b bc cm	c be c	6 3
	Nottingham ...	1013·4	47	W	3	c	1021·7	*	39	− 4	SW	1	SW	o	*	0·1	49	37	cp . o	op . c	o . c	2 . 0
	Benson (Oxon.) ...	1015·9	44	W	3	c	1022·6	+ 1	39	− 1	S	3	—	bcx	*	—	51	33	bc	b	bc	*
	Sth Farnborough	1015·9	43	W	2	b	1023·7	+ 2	39	+ 2	SSW	2	NW	bcm	*	—	52	36	b c bc	bc b	b o bcm	8 . 0
	London (Kew Obsy.)	1016·9	46	SW	2	b	1024·5	+ 3	37	− 2	—	0	N	cfx	*	—	51	36	bm. b bc	bc. c bc. b	b bc. o cfx	7 . 4
NORTHERN EUROPE.	Spitsbergen ...	1020·4	−9	S	5	b	1015·9	0	−2	+ 7	N	3	*	o	*	*	−2	−11				
	Vardö	1002·3	34	SE	3	r	1000·8	− 3	37	+ 3	W	1	—	o	2	*	37	32				
	Bodö	9986	43	—	0	o	1008·8	+ 5	41	− 4	NW	4	—	r	2	5	46	41				
	Christiansund ...	1003·1	45	—	0	o	1012·6	+ 3	45	+ 2	—	0	—	r	3	7	46	43				
	Skudesnaes ...	1006·1	48	SSW	2	c	1014·9	+ 2	48	0	SE	3	—	m	3	5	50	46				
	Færder (X'tania Fjord)	1008·3	48	SSW	4	o	1017·6	+ 3	48	0	SW	2	—	o	2	—	48	46				
	The Scaw (Skagen)	1008·2	48	S	2	bc	1018·7	+ 4	45	− 1	SSW	1	—	bc	3	Trace	50	45				
	Blaavands Huk	1012·2	48	WSW	2	c	1020·8	+ 3	48	0	SW	2	—	r	3	2	52	46				
	Copenhagen ...	1014·7	48	WSW	2	bc	1023·7	+ 4	45	− 3	WSW	2	—	f	*	—	48	45				
	Bornholm ...	1016·0	45	SW	2	m	1023·9	+ 3	46	0	SW	2	—	m	0	—	48	43				
FRANCE, &c.	The Helder ...	1014·1	50	SW	4	bc	1023·3	+ 5	50	0	SW	2	—	c	2	—	52	50				
	C. Gris Nez ...	1017·0	50	W	5	b	1024·2	+ 3	49	+ 3	WSW	2	*	c	2	—	50	46				
	La Hève	*	50	WNW	4	bc	*	*	44	− 4	S	3	*	c	3	—	55	43				
	Brest (St. Mathieu)	1023·3	50	NW	4	o	1025·6	− 1	52	+ 3	SW	4	*	f	4	4	57	49				
	Rochefort (Ile d'Aix)	1022·4	51	NNW	5	b	1028·7	+ 3	45	− 4	NNE	2	*	c	*	1	54	45				
	Biarritz	1022·9	53	NW	3	o	1028·0	+ 3	46	+ 8	ESE	2	*	o	3	5	55	46				
	Paris	1019·7	41	NW	1	b	1027·7	+ 3	30	− 15	—	0	—	b	*	—	54	30				
	Belfort	1017·9	43	NW	2	c	1026·6	*	39	− 2	ENE	4	*	bc	*	?	46	34				
	Lyons	1017·6	45	N	4	c	1023·0	*	41	-	NNW	4	*	b	*	1	47	39				
	Nice	1002·7	50	E	2	bc	1009·2	+ 5	57	+ 9	—	0	*	o	4	2	59	46				
	Perpignan ...	1015·0	48	NW	5	b	1018·3	+ 1	50	0	NW	7	—	b	*	1	55	45				
	Sanguinaire ...	1001·7	57	NW	6	o	1003·1	*	56	− 4	NW	3	*	o	5	—	60	45				
SOUTHERN STATIONS.	Corunna	1028·3	55	—	0	c	1029·9	+ 2	48	− 6	SE	2	—	bc	2	Trace	57	48				
	Madrid	1024·6	50	—	0	c	1027·1	+ 1	43	− 2	NNW	2	N	b	*	—	54	37				
	Lisbon																					
	Azores (Horta) ...	1010·4	*	SSW	9	m	1007·1	+ 4	59	− 9	WSW	5	*	r	6	11	70	59				
	Madeira	1021·3	70	E	3	c	1018·4	0	72	+ 6	E	3	E	bc	4	—	72	63				
	Gibraltar	1024·4	57	NW	3	b	1022·3	*	49	− 4	—	0	*	b	2	—	62	48				
	Malta	*	*	*	*	*	1003·8	+ 2	55	− 15	W	1	—	o	0	11	72	55				
	Limassol	*	*	*	*	*	1017·5	+ 3	68	− 5	—	0	—	b	4	12	81	57				
	Alexandria ...	1016·8	70	N	1	bc	1018·7	+ 1	72	0	—	0	—	b	0	—	79	63				
	Cairo (Helwan) ...	1016·2	68	N	2	b	1017·0	+ 2	68	+ 2	NE	2	—	b	*	—	77	63				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7h 18m

Wind at 2700 m.	NW	13 m/s.
2400	WNW	9
2100	WbyN	13
1800	W	9
1500	WbyS	9
1200	WSW	8
900	SWbyW	8
600	SWbyW	8
300	SWbyW	7
Surface	SSW	4

Lunar Halo observed at — Deerness, Castlebay, Donaghadee, Holyhead & Pembroke (at 22h.)

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F	°F.	mm.			
GREENWICH (Royal Observatory)	67	91	7.1	51	36	28	—	b	bc	c.b.o
CITY (Bunhill Row)	*	*	4.8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	69	93	6.1	53	37	30	—	bc	be m	m
CAMDEN SQ. (British Rainfall)	68	88	6.0	52	37	33	Trace	b	b . c	*
HAMPSTEAD (Reservoir)	*	89	6.4	50	37	20	—	o	bc	bc x-c
S. KENSINGTON (Museum Grounds)	*	85	6.5	52	40	29	—	b.bz	bc	b . c . o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

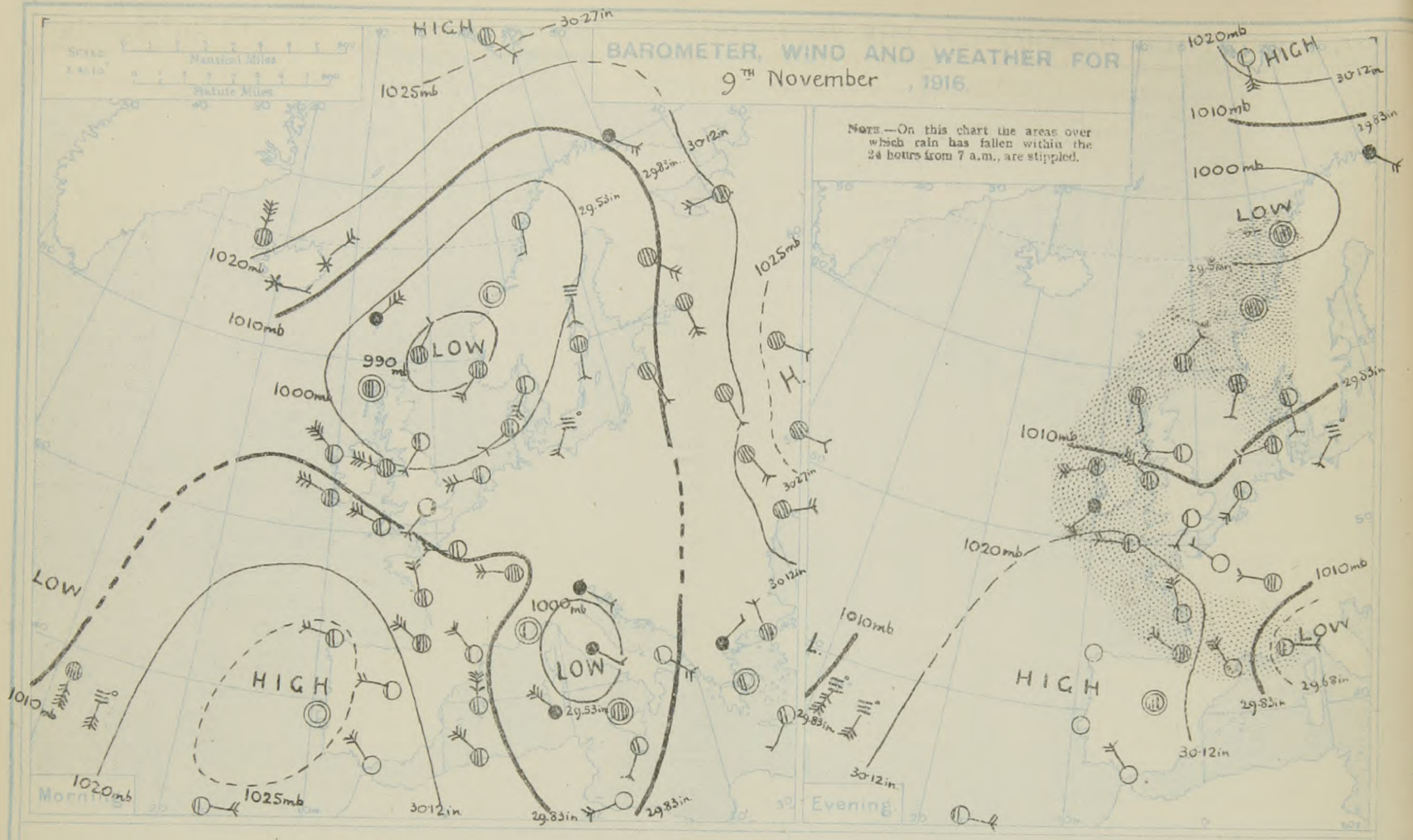
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
556	16·9	30

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 November, 1916.



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.

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

Moderate winds from between South and South-West, fresh at times; unsettled, some rain; becoming rather mild.

Western Channel and Bay 11 — Moderate or fresh South-West winds; moderate sea; unsettled, some rain.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF FRIDAY 10TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression out on the Atlantic will cause rather unsettled weather over the country generally.

TEMPERATURE WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

HIGH 1015mb 1010mb 1005mb LOW 29.68in. 29.83in. 30.12in. HIGH 1020mb 1015mb Barometer generally 1010mb LOW 29.83in. 2997in. 1010mb 1015mb LOW rising Bar. falling 1025mb 1020mb 30.27in 30.12in. 29.98in. 29.83in 29.58in. 1010mb 1015mb 1005mb

Scale 1:13,440,000
Nautical Miles 0 100 200 300
Statute Miles 0 100 200 300 400

Normal Temperature of the Sea.
Below 50 | 50–60 | 60–70 | Above 70

Scale of Tints for NOVEMBER.

Issue No. 20077

DAILY WEATHER REPORT.

Friday, 10th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rain fall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	-	-	-	-	-	1020·2	?	37	+1	W	3	0	3	*	36
	Gorki	1018·4	37	S	4	0	1019·0	0	37	+3	S	2	0	-	*	34
	Velieki Luki ...	1018·1	41	SE	3	0	1019·9	*	37	+1	SE	3	0	-	*	36
	Hangö														*	
	Riga	1008·2	45	SSE	4	0	1009·7	0	43	0	S	4	0	-	*	43
	Petrograd ...	1019·5	39	SE	4	0	1015·3	+1	43	+2	S	4	0	-	41	39
	Moscow	1020·0	34	SSE	3	0	1029·3	0	32	+4	SE	2	0	-	*	28
	Kiev	1021·2	43	ESE	6	0	1021·6	0	45	+8	SSE	3	0	-	*	37
	Kharkov ...	1028·7	36	SE	2	0	1029·1	+1	37	+1	SE	2	0	-	*	36
	Kishinev ...	1017·7	52	-	0	0	1018·7	0	52	+7	SSE	3	0	-	*	45
	Elisabetgrad ...	1023·5	46	ESE	4	0	1024·6	+1	43	+6	SSE	2	0	-	*	37
	Nicolaiev ...	1022·6	48	S	4	c	1023·3	*	43	-2	ESE	2	0	-	*	39
	Odessa	1021·9	54	SSE	3	0	1021·4	+1	50	+4	ESE	3	0	-	*	48
	Tarkhankout...	1022·4	52	E	4	bc		*	.	.	..	-	-	-	*	—
	Soukhoum ...	1020·6	57	NNE	2	b	1020·7	+1	54	-1	NNE	2	b	-	*	51
MEDITERRANEAN.	Venice	1002·9	45	ESE	1	r	1000·2	*	51	+1	SE	2	r	1·6	57	50
	Pesaro	1004·6	57	SE	1	r	999·3	*	55	+3	-	0	0	6	61	52
	Rome	1005·7	59	SE	2	0	999·0	*	57	+9	SE	1	r	1·7	61	48
	Viesti	1009·5	59	SE	4	b	1006·0	*	59	+2	S	4	0	-	64	55
	Brindisi	1012·6	55	S	2	b	1008·9	*	59	+2	SE	3	b	-	64	55
	Cagliari	1004·4	66	SE	5	0	1001·0	*	56	-2	NW	6	r	1·0	68	46
	Palermo	1011·1	63	-	0	0	1002·8	*	63	+6	-	0	0	-	70	55
	Tripoli	1009·2	62	SSW	1	b	1008·0	*	63	+4	SE	3	b	-	73	54
	Algiers	1011·8	63	SW	1	bc	1012·8	+2	63	+3	NW	5	c	0·8	77	54
SWEDEN.	Hernösand ...	998·3	43	SE	2	r	999·0	*	43	+2	S	2	f	*	*	*
	Stockholm ...	997·7	46	SSE	4	0	1003·4	*	46	0	S	2	0	*	*	*
	Wisby	998·0	48	S	4	0	1003·8	*	48	+2	S	2	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...	1021·5	30	+2	N	8	0
Reykjavik	1014·1	30	-2	E	1	c
Vestmanna	1013·0	34	0	E	1	3
Seydisfjord	1015·9	30	+2	NE	4	8
Thorshavn	997·5	41	-6	NE	6	r

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY. UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	4	1	52	41	cp	o	1·6
	Banff	-	-	51	40	c.bc	bc.c	1·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	2	1	48	42	bcp.c	c.bc.c	1·1
	Skegness	-	Trace	51	43	b.bc.	bc.cg	3·8
Eng. N.W.	Morecambe							
	Southport	1	Trace	50	46	cp.o	o	0·0
Midlands.	Leamington Spa							
	Malvern	-	Trace	48	41	c	c	2·0
	Ross-on-Wye	-	Trace	50	39	bcp	bc.	2·3
Wales.	Rhyl	2	1	49	45	cp.o	cp.o.	0·0
	Colwyn Bay...	*	*	49	44	cp.	bc.	0·0
	Llandudno	*	*	50	45	r.c	c.	0·0
	Aberystwyth	*	*	50	45	r.o.c	c.o.	0·5
	Tenby	-	-	56	43	bc	bc.c.	4·6

	STATIONS.	Rainfall. Night 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	-	-	52	41	b.bc.c.	bc.c	7·2
	Felixstowe	-	-	51	39	bc	bc.	7·1
	Walton-on-Naze							
	Southend-on-Sea	-	-	52	38	b.	b.bc.c	6·5
England, S.E.	Margate	-	-	53	39	b	b.	7·0
	Ramsgate	-	-	53	37	b	b	7·8
	Hastings	-	-	52	38	b	b	8·0
	Eastbourne	-	-	51	42	b	b	7·5
	Seaford	*	*					
	Brighton	-	-	51	41	b	b	7·5
	Worthing	-	-	52	37	b	b.	8·0
	Littlehampton	-	-	51	43	b	b	7·9
	Bognor	*	*	53	42	bc	bc	7·3
	Bournemouth	-	-	52	39	b	b.	7·2
England, S.W.	Weymouth...	*	*	53	43	b	b.bc.	6·5
	Torquay	Trace	1	52	40	c.bc.b.p	bc.cp	5·1
	Paignton	*	*					
	Penzance	2	-	53	45	bc.c	bc.	5·3
	Newquay	1	Trace	51	45	bc	bc.	3·1
	Bude	Trace	-	52	46	bc	bc.	3·1
	Ilfracombe	1	1	52	46	p.c	bc.	1·9
	Weston-s-Mare	-	-	52	44	bc.b.	b.bc.c.	4·2

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

10th and 11th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·6 / 7·8	11·37 / 11·37	4·8 / 4·6
Greenwich	7·11 / 7·12	11·44 / 11·44	4·17 / 4·16
Wick	7·51 / 7·53	11·56 / 11·56	4·1 / 3·59
Valencia	7·53 / 7·58	12·25 / 12·25	4·57 / 4·55

NOTES ON YESTERDAY'S WEATHER.

Rain again fell in the West but less heavily than of late. The day was very fine in the South-East of the country, with 7 - 8 hours of sunshine at many stations. Temperature fell to 33° at Benson.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 316

Saturday, 11th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					÷	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1009.7	47	SSW	1	bcm	1007.1	− 2	47	0	S	3	−	omd	3	4	49	44	om	o bcm	bc. or	*
	Deerness (Orkney)	1010.1	47	S	2	ogc	1009.1	"	53	+ 5	SW	2	−	r	2	8	53	47	apd o	ogc	or	0.0
	Stornoway ...	1008.7	47	SE	2	or	1009.8	0	55	+ 8	SW	6	−	orq	5	17	55	46	c od r	or	orq	0.0
	Castlebay (Barra Isd.)	1011.6	54	WSW	4	r	1014.5	0	53	+ 5	SW	5	−	op	5	9	54	47	o r	r	r.d.cop	0.0
	Glasgow ...	1013.9	54	WSW	2	omd	1018.3	+ 2	54	+ 10	WSW	4	−	og	"	9	56	43	omdp	omr	omd op	0.0
	Eskdalemuir ...	1016.5	50	S	3	ofe	1020.7	+ 1	53	+ 12	SW	4	−	ome	"	5	53	41	odm or	odm or	ome	0.0
	Malin Head ...	1013.1	54	WSW	4	omd	1015.3	− 2	55	+ 11	SW	6	SW	cq	6	4	56	43	omr	omd	oq	0.0
	Blacksod Point	1016.5	53	SSW	4	ome	1017.8	0	54	+ 1	SSW	5	−	om	4	1	54	52	ofe	ofe	of.c.om	*
	Valencia ...	1023.1	55	S	1	o	1024.9	0	54	− 1	S	4	SW	o	3	1	56	53	omd	omd	o	0.0
	Roche's Point	1023.8	53	SW	2	o	1027.2	"	52	+ 1	SW	2	−	o	3	0.4	58	50	o.em	ome	ome om	*
	Birr Castle ...	1021.3	57	SW	1	o	1024.3	"	54	+ 4	SW	1	−	o	"	0.1	57	49	om-o	o	o	0.0
	Donaghadee ...	1016.0	57	WSW	5	ogmq	1020.7	+ 1	56	+ 10	WSW	4	−	ogmq	3	1	58	46	omq pd	omq	ogmq	*
	Liverpool (Bidston)	1021.0	56	SSW	3	o	1024.7	+ 1	55	+ 11	SSW	2	S	c	3	1	57	44	od	o.c	bc	0.0
	Holyhead ...	1020.6	54	SW	5	ofe	1024.8	+ 1	52	+ 3	SW	5	−	fe	4	1	55	48	od.fd	fd fe o	of.c	0.0
	Pembroke (St. Ann's)	1024.5	51	SW	3	fd	1028.2	+ 2	52	+ 2	SW	3	−	fe	3	1	54	50	op.f	of	fc	0.0
	Scilly (St. Mary's)																					
	Falmouth ...	1026.8	55	SSW	2	odm	1030.2	+ 2	51	0	SW	1	−	fe	"	1	57	50	odm o	odm o	oem of	0.0
	Jersey (St. Aubin)	1026.9	53	SSW	3	omd	1032.9	"	54	+ 4	W	3	−	ome	2	2	54	49	oq pdm	omd	d.ome	0.0
	Portland Bill ...	1025.4	52	SSW	3	om	1028.9	+ 1	53	+ 3	WSW	2	−	om	2	Trace	53	49	c.od	odm	om	*
	Dungeness ...	1026.1	53	SW	3	bc	1028.0	+ 2	55	+ 12	WSW	3	−	f	3	−	54	42	bc	bc	bc. of	*
	Dover	1027.1	51	SW	4	c	1028.8	0	54	+ 10	S	1	−	f	3	0.2	54	46	bc.c bc	bc.c	c. bcf	3.3
	Wick	1010.4	45	−	0	r	1009.5	− 1	55	+ 8	WSW	3	−	r	3	6	56	45	og	gmpd	pd.omr	*
	Nairn	1009.4	46	−	0	og	1011.1	"	57	+ 11	SW	6	−	bcq	3	3	57	45	od	dgo	p.oq c	0.0
	Aberdeen	1011.4	48	SSW	2	cm	1013.8	+ 1	58	+ 13	SSW	4	W	o	2	4	58	39	og od	od rm	bc.omp	0.0
	Leith	1013.1	56	W	2	r	1017.4	0	57	+ 10	SW	3	−	o	3	2	58	45	c.od.o	od o.d	r.oq o	*
	Tynemouth ...	1015.7	53	SW	2	ogm	1020.0	+ 1	57	+ 9	WSW	1	−	om	3	Trace	58	46	opm	opm	om	*
	Spurn Head ...	1021.3	48	SW	3	o	1024.4	+ 1	47	+ 2	WSW	3	−	o	?	−	50	45	c	c.o	c	0.4
	Yarmouth ...	1024.4	50	SW	2	c	1026.3	+ 1	53	+ 11	WNW	3	−	of	2	−	53	42	bc	c	c.om	4.0
	Clacton-on-Sea	1027.1	50	SSW	2	bc	1027.8	0	54	+ 12	WNW	2	−	m	2	−	54	41	c.bc.c	c.bc	c ogm	2.1
	Nottingham ...	1022.6	52	SW	2	o	1025.9	"	54	+ 15	SW	2	SW	c	"	Trace	55	38	op	op	o	0.0
	Benson (Oxon.) ...	1025.1	51	SSW	3	o	1027.7	+ 2	53	+ 14	SW.	3	−	o	"	−	54	39	bc.o	o	o	"
	Sth Farnborough	1025.8	51	SW	3	r	1028.4	+ 2	53	+ 14	W	2	−	om	"	Trace	54	38	m.o	odm	od.om	0.1
	London (Kew Obsy.)	1026.4	51	SW	3	o	1029.0	+ 2	54	+ 17	WSW	1	−	om	"	Trace	54	36	cfx.om	om.o	em	0.1
NORTHERN EUROPE.	Spitsbergen ...												*		"	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tianiaFjord)																					
	The Scaw (Skagen)	1022.3	48	SW	2	o	1017.0	− 3	48	+ 3	S	3	−	o	4	1	48	45				
	Blaavands Huk	1024.3	50	SW	2	c	1020.8	+ 1	52	+ 4	WSW	3	−	r	4	4	52	46				
	Copenhagen ...	1026.1	46	W	3	m	1023.2	− 3	46	+ 1	SW	4	−	r	"	3	50	45				
	Bornholm ...	1026.7	45	SW	3	m	1025.0	+ 2	46	0	WSW	5	−	m	1	Trace	48	43				
FRANCE, &c.	The Helder ...	1026.7	50	SSW	3	b	1026.4	+ 1	52	+ 2	SW	3	−	f	2	−	54	45				
	C. Gris Nez ...	1027.4	51	SW	3	bc	1027.9	+ 1	53	+ 4	SW	4	*	f	4	−	53	48				
	La Hève	*	50	SSW	3	o	*	*	50	+ 6	SW	3	*	m	2	−	55	48				
	Brest (St. Mathieu)	10280	54	NNW	3	f	1031.1	+ 1	52	0	SW	1	*	f	3	13	57	46				
	Rochefort (Ile d'Aix)	10301	50	−	0	o	1031.5	+ 1	43	− 2	ENE	1	*	f	*	−	55	43				
	Biarritz												*	bc								
	Paris	10304	39	S	1	b	1032.2	+ 1	32	+ 2	−	0	−	f	*	−	50	36				
	Belfort	1028.6	45	E	4	o	10324	*	39	0	E	4	*	f	*	−	50	39				
	Lyons							*					*		*							
	Nice	1016.0	59	ENE	3	c	1019.9	+ 1	62	+ 5	E	4	*	b	3	−	63	55				
	Perpignan ...	10224	52	NW	6	b	10239	+ *	50	0	NW	2	−	b	*	−	57	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1005.0	*	SSW	8	c	1009.6	+ 1	62	+ 3	SW	4	*	bc	3	16	68	61				
	Madeira																					
	Gibraltar	1019.3	61	E	6	b	1018.3	*	58	+9	E	6	*	b	3	−	66	48				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1019.0	+ 1	64	− 4	NNW	1	−	b	3	−	79	54				
	Alexandria ...	1017.9	68	NE	2	b	1018.7	0	72	0	ENE	2	−	b	1	−	79	66				
	Cairo (Helwan) ...	1016.2	70	NE	5	b	10188	+2	66	− 2	−	0	−	b	*	−	82	64				

LUNAR HALO

observed at Aberdeen at 18h.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass (Night)	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F	°F.	mm.			
GREENWICH (Royal Observatory)	87	96	0.0	55	44	44	−	o	o	oe
CITY (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	87	94	0.1	55	44	44	−	c	c	cde oe
CAMDEN SQ. (British Rainfall) ...	85	96	0.0	55	44	49	Trace	cm o	o	*
HAMPSTEAD (Reservoir)	*	100	0.0	50	49	40	Trace	odm	ome	ome
S. KENSINGTON (Museum Grounds)	*	90	0.0	55	46	50	−	c.o	o	o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

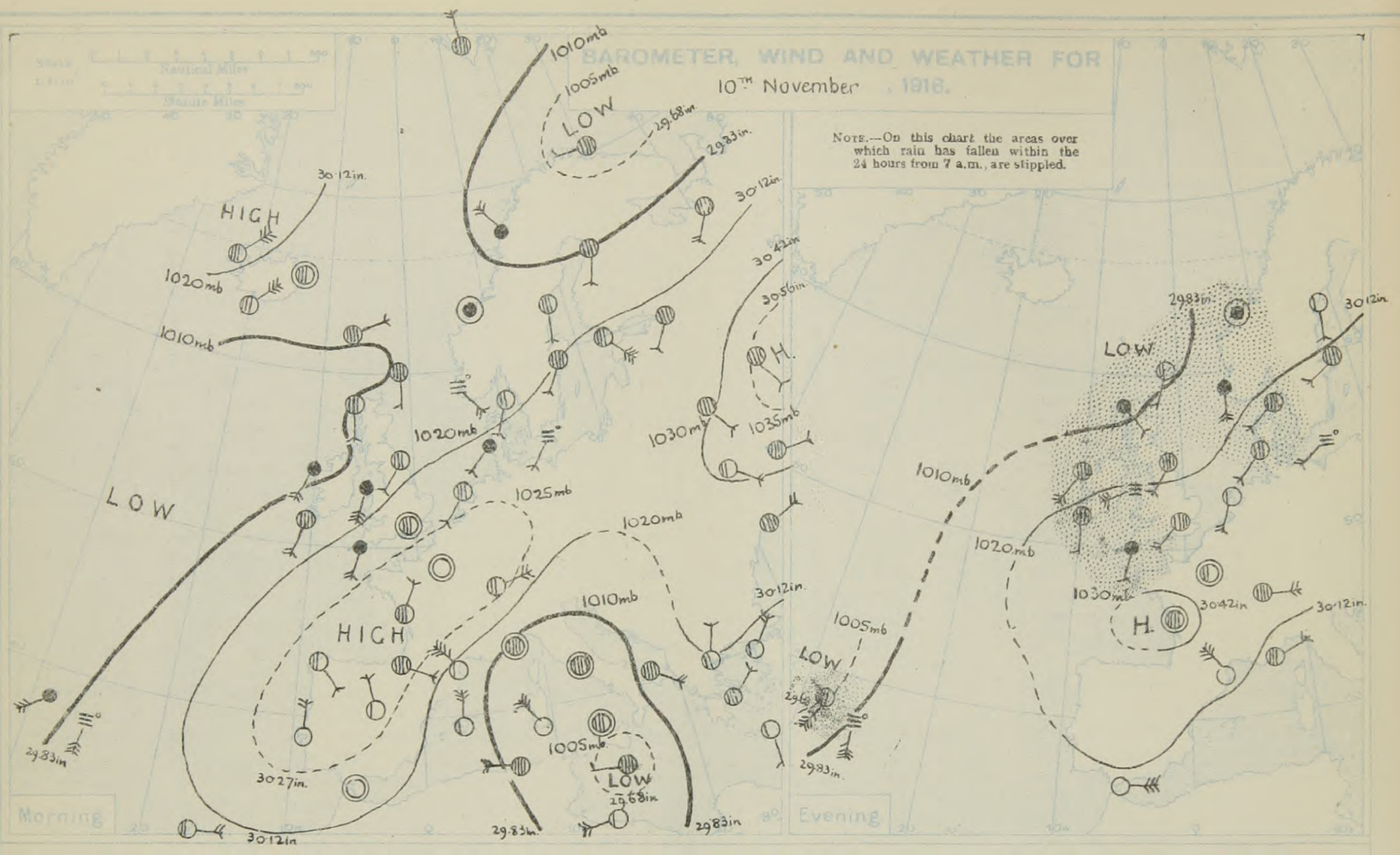
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
266	8.1	26

Temperatures at Greenwich and Camden Square are from Glaisher screens.

† Received too late for insertion in Charts. * The barometric change is expressed in half-millibars.



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 Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued.

Western Channel and Bay 11

0 (a, b), 1, 2 (a, b) — Fresh South-Westerly winds; dull, some rain and mist; mild.

3, 4 (a, b), 5 — Moderate South-Westerly winds; dull, some mist or fog, especially on coast; mild.

6 (a, b), 7 (a, b) — Fresh or strong Southerly or South-Westerly winds; dull, some rain, with some mist or fog; mild.

8 (a, b) — Moderate Southerly or South-Westerly winds; dull, with some mist or fog; mild.

9 (a, b) — Same as Nos. 6 and 7.

10 (a, b) — Same as No.8.

11 — Light winds, chiefly from South or South-West; smooth sea; dull, with mist or fog.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 11TH NOVEMBER, 1916.

GENERAL INFERENCE.

No great change in the general conditions is expected for the present.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

47 odm
53
55 55
oq 57 58
53 55 q
p 57
54 g
55 q 56 53 me 57 m
54 m 54 ogqm 55 54 47
52 e 53
54 52 54 o
52 e 53 54 m 54
53 m 55
51 e
54 me

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

29.68in. 42 Barometer 29.83in.
LOW 50° 47 29.97in. 30.12in.
55° falling 48
55 58 1005mb 46 46 30.27in.
1010mb 55 Barometer 52
57 30.42in.
1015mb 54 52 53 52
1020mb 54 54
1025mb 51 rising 40°
1030mb. 54 32 G H 30.42in.
52 39 40°
H 43 I 50° 30.27in.
50° 60° 30.12in.
generally 62
1010mb 1015mb 1020mb
LOW
62
29.83in. 29.98in.
58

SCALE 1 : 2,500,000
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 50° 50°-60° 60°-70° Above 70°
Scale of Tints for NOVEMBER.

Issue No. 20,078

DAILY WEATHER REPORT.

Saturday, 11th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Previous Evening. Temp.	Previous Evening. Wind. Direc.	Previous Evening. Wind. Force 0–12.	Previous Evening. Weather.	Morning. Barometer. Millibars at M.S.L.	Morning. Barometer. Change in 3 hours.	Morning. Temp. Dry Bulb.	Morning. Temp. Change in 24 hours.	Morning. Wind. Direc.	Morning. Wind. Force 0–12.	Morning. Weather.	Past 24 Hours. Rainfall. Millimetres.	Past 24 Hours. Temp. Max.	Past 24 Hours. Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1019·3	37	SW	2	r	1016·6	?	39	+2	SW	3	o	–	*	36
	Gorki	1024·6	48	SE	2	o	1028·7	+4	43	+6	SW	2	o	–	*	37
	Velieki Luki ...	1024·4	43	SE	2	o	1028·8	*	45	+8	SSE	2	o	–	*	37
	Hangö	.	.	.	.	.	1020·6	+3	45	–	SE	6	c	3	*	48
	Riga	1019·3	48	S	1	o	1024·3	+2	46	+3	SSW	2	f	–	*	43
	Petrograd ...	1019·4	45	S	4	o	1023·3	+2	48	+5	SW	2	o	–	48	43
	Moscow	1032·3	52	SE	2	o.	1035·3	+1	37	+5	SSE	2	o	–	*	32
	Kiev	1026·7	45	SE	3	o	1030·6	+3	41	-4	SE	3	bc	–	*	39
	Kharkov ...	1031·5	39	-	o	o	1033·6	o	39	+2	E	2	o	–	*	37
	Kishinev ...	1023·1	48	E	3	o	1026·1	+3	48	+4	-	o	o	–	*	43
	Elisabetgrad ...	1027·3	43	SE	2	bc	1029·9	+2	41	-2	E	2	f	–	*	37
	Nicolaiev ...	1024·2	46	E	2	bc	1027·4	*	39	-4	NE	2	o	–	*	37
	Odessa	1024·3	46	ESE	3	o	1026·9	+2	43	-7	ENE	3	o	–	*	41
	Tarkhankout...	1022·7	45	E	1	b	–	*	–	–	–	–	–	–	*	–
	Soukhoum ...	–	–	–	–	–	–	–	–	–	–	–	–	–	*	–
Mediterranean.	Venice	–	–	–	–	–	–	*	–	–	–	–	–	–	–	–
	Pesaro	1000·9	52	NW	3	r	1004·3	*	57	+2	E	1	r	4	59	50
	Rome	997·7	55	SE	1	c	1006·0	*	57	o	-	o	o	18	59	55
	Viesti	1004·2	57	SE	7	o	1008·0	*	63	+4	SE	6	o	59	63	56
	Brindisi	1005·9	59	SE	6	r	1011·1	*	61	+2	SE	3	o	98	66	52
	Cagliari	-	-	-	-	-	1005·7	*	59	+4	NW	5	b	-	69	?
	Palermo	1000·9	57	ENE	1	o	1005·2	*	54	-9	-	o	c	2	64	50
	Tripoli	1006·2	57	ENE	1	o	1005·2	*	54	-9	-	o	c	2	64	60
	Algiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden.	Hernösand ...	-	-	-	-	-	1012·7	*	45	+2	S	2	c	*	*	*
	Stockholm ...	-	-	-	-	-	1020·0	*	43	-3	SSW	2	o	*	*	*
	Wisby	-	-	-	-	-	1022·6	*	45	+3	SW	2	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Morning. Temp. Dry Bulb.	Morning. Temp. Change in 24 hours.	Morning. Wind. Direc.	Morning. Wind. Force 0–12.	Morning. Weather.
		°F	°F			
Isafjord ...	1020·3	30	0	NE	6	c
Reykjavik	1014·0	27	-3	E	4	b
Vestmanna	1014·0	34	0	NE	6	c
Seydisfjord	1018·6	21	-9	-	0	c
Thorshavn	1011·8	39	-2	ENE	2	o.

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	2	2	54	44	or	or	0·0
	Banff	–	3	?	37	o	or'd	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	–	1	53	34	op	op	0·0
Eng. N.E.	Harrogate	–	Trace	50	42	opo	o.c	0·0
	Skegness	–	–	50	40	dg	ogm.c	0·2
Eng. N.W.	Morecambe	Trace	2	52	45	-	-	0·0
	Southport	Trace	Trace	52	44	oc.	od	0·0
Midlands.	Leamington Spa							
	Malvern	Trace	–	52	40	c	c	0·0
	Ross-on-Wye	Trace	–	54	38	o	o	0·0
Wales.	Rhyl	1	–	57	44	cp	o	0·0
	Colwyn Bay...	*	*	58	46	bc	bc	0·0
	Llandudno	*	*	59	46	c	c	0·0
	Aberystwyth	*	*	57	46	r.o.c	c.o	0·0
	Tenby	1	2	55	45	od	o	0·0

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	–	–	54	41	bc.c	c.o	3·7
	Felixstowe	–	–	53	40	cm.bc	bc	2·0
	Walton-on-Naze							
	Southend-on-Sea	–	–	54	40	bz bc	bc.c.o	1·7
England, S.E.	Margate	–	–	56	41	bc.b	b.bc	3·3
	Ramsgate	–	–	53	38	o.bc	bc	2·6
	Hastings	–	–	54	39	b.bc.o	o	1·5
	Eastbourne	–	–	54	40	bc.o	o.bc.o	0·0
	Seaford	*	*					
	Brighton	–	–	54	38	o	o	0·0
	Worthing	–	–	54	36	o	o	0·1
	Littlehampton	–	–	52	38	o	o	0·0
	Bognor	*	*	53	39	bc.o	o	0·0
	Bournemouth	–	–	53	41	o	o.f	0·0
England. S.W.	Weymouth...	*	*	55	46	d.om	ome	0·0
	Torquay							
	Paignton	*	*	57	37	o	o	0·0
	Penzance	9	Trace	56	47	omr	om.f	0·0
	Newquay	5	Trace	54	44	o	o	0·0
	Bude	1	–	54	45	o	o	0·0
	Ilfracombe	1	Trace	54	45	ef.	f	0·1
	Weston-s-Mare							

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

11th & 12th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7·8 7·10	11.37 11.37	4.6 4.4
Greenwich	7.12 7.14	11.44 11.44	4.16 4.14
Wick	7.53 7.55	11.56 11.56	3.59 3.57
Valencia	7.55 7.57	12.25 12.25	4.55 4.53

NOTES ON YESTERDAY'S WEATHER.

Rain was chiefly confined to the North-West, 17 mm. fell at Stornoway. The day was sunless over practically the whole country. Mist and fog have become very prevalent and there has been a considerable rise of temperature.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 317. Sunday, 12th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1003·9	52	WSW	6	omq	1007·4	+2	48	+1	WNW	7	–	omg	6	30	52	47	or	org	cmg	*
	Deerness (Orkney)	1007·4	54	SW	4	bc	1012·8	*	49	-4	W	5	–	o	4	6	54	48	r.od	d.o.c.bc	bc.c.o	0·0
	Stornoway ...	1009·9	53	W	7	orq	1017·2	+2	47	-8	W	5	–	cq	4	9	56	47	orq	orq	ep.cq	0·0
	Castlebay (Barra Isd.)	1014·8	54	SW	5	d	1020·3	+2	50	-3	WNW	4	W	cp	4	2	54	49	ep.r	r.d	d.o.cp	0·0
	Glasgow ...	1017·7	54	SW	5	ogq	1020·7	+3	53	-1	WSW	3	–	b	*	0·1	55	53	o.c.o	oq	odp.o	0·1
	Eskdalemuir ...	1018·8	51	WSW	7	oq	1021·6	+2	54	+1	WSW	4	–	o	*	0·1	55	51	ome	em.oq	o.c.od.q	0·0
	Malin Head ...	1016·8	54	SW	6	om	1020·7	+2	53	-2	SW	5	–	omd	5	2	56	52	cq	omd	omd	0·0
	Blacksod Point	1019·9	53	SSW	7	ofd	1023·5	0	50	-4	SSW	4	–	om	4	1	54	50	omd	ofd	ofe.om	*
	Valencia ...	1026·6	53	S	3	od	1027·3	0	50	-4	SSE	3	SW	c	3	0·2	56	50	o	o	ep.o.c	0·0
	Roche's Point	1028·2	52	SW	3	o	1028·6	*	50	-2	SW	1	–	o	3	0·3	54	50	ome	ome	ome	*
	Birr Castle ...	1024·9	55	SSW	1	o	1026·5	*	51	-3	S	1	–	o	*	–	57	50	o	o	o	0·0
	Donaghadee ...	1021·0	56	SW	4	ogmq	1022·2	0	54	-2	W	5	W	cmq	4	–	57	53	ogmq	ogmq	ogmq	*
	Liverpool (Bidston)	1025·6	52	SW	4	bc	1025·5	0	51	-4	WSW	2	W	o	2	–	57	50	e.bc	o	o	1·9
	Holyhead ...	1026·1	53	SW	5	bc	1026·3	+1	52	0	SW	4	–	f	3	Trace	56	51	of.o.c	c.bc	f	0·2
	Pembroke (St. Ann's)	1029·4	53	SW	3	o	1028·7	-1	50	-2	SW	3	–	o	4	0·1	53	49	fe.f.o	o	opd.c	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	1030·7	53	SSW	1	omd	1030·0	0	48	-3	NW	1	–	ome	*	Trace	54	46	om	om.omq	ome	0·0
	Jersey (St. Aubin)	1030·4	52	W	2	o	1029·3	*	51	-3	NW	2	–	oe	1	1	55	48	omd.me	bc.ome	of.oe	0·0
	Portland Bill ...	1029·6	53	WNW	2	o	1029·6	0	48	-5	NNW	1	–	o	3	–	55	47	f	f.o	o.c.bc	*
	Dungeness ...	1028·7	53	SW	3	f	1028·6	0	49	-6	WSW	3	–	o	2	–	54	49	f	of	fe.c.o	*
	Dover	1028·5	52	SW	2	m	1028·4	0	47	-7	W	1	–	b	2	0·1	56	45	f.c	c.bcm	bmw	0·0
	Wick	1008·0	56	W	4	bc	1014·9	+3	47	-8	W	4	–	o	3	1	57	45	cmp	omp.bc	bc.omq	*
	Nairn	1010·8	55	W	4	oq	1016·6	*	51	-6	W	2	–	bc	2	3	59	49	oqp.bc	pdq.c	q.c.bc	2·5
	Aberdeen	1013·5	55	SSW	3	bc	1016·9	+3	50	-8	NE	1	W	b	2	–	59	47	dq.c	o.bc	bc.c.b	0·3
	Leith	1015·1	59	W	4	o	1018·9	+1	56	-1	W	4	W	c	3	–	59	54	o.c.bc	bcq.c.o	oq.c.o.c	*
	Tynemouth ...	1020·8	55	W	2	cm	1021·4	0	56	-1	W	2	–	om	3	–	59	53	om	om	om	*
	Spurn Head ...	1024·3	49	SSW	3	om	1023·9	0	50	+3	W	4	–	c	4	–	55	47	c.o	o	o	0·0
	Yarmouth ...	1025·9	54	–	0	bc	1025·8	0	48	-5	W	3	–	bc	2	–	62	47	bc	bc	bc	3·6
	Clacton-on-Sea	1027·3	52	WNW	2	bc	1027·1	0	45	-9	WNW	2	NW	bc	1	0·4	56	44	oge.me	c.bcme	bc.bme	0·0
	Nottingham ...	1026·1	52	SW	3	c	1026·7	*	49	-5	SW	2	SW	o	*	–	60	46	c.bc	bcm.c	c	2·9
	Benson (Oxon.) ...	1028·4	50	SW	1	b	1028·1	0	46	-7	SW	1	–	m	*	–	58	39	bc	bc	bm	*
	Sth Farnborough	1028·3	48	SSW	2	bc	1028·2	0	49		WNW	2	–	om	*	–	56	46	o	c.bc	bc.om	1·9
	London (Kew Obsy.)	1028·2	52	SW	2	b	1028·3	0	48	-6	WSW	2	–	omw	*	Trace	52	45	Om.o	o.c.bc.b	b.bmw.omw	2·0
NORTHERN EUROPE.	Spitsbergen ...	1014·7	1	NE	6	b	1020·3	+3	-9	-30	W	5	*	b	*	*	21	-9				
	Vardö	1013·6	30	–	0	bc	1008·3	-5	28	-2	W	1	–	c	3	*	36	30				
	Bodö	1002·6	34	E	2	b	1005·0	-1	37	+5	E	4	–	bc	2	?	34	30				
	Christiansund ...	1001·2	46	–	0	r	1000·8	+1	48	+2	W	4	–	r	4	17	46	43				
	Skudesnaes ...	1009·0	52	SSW	4	r	?	+1	48	0	NW	4	–	c	4	15	52	45				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1013·7	52	SW	2	f	1006·6	-3	50	+2	WSW	4	–	bc	4	–	52	46				
	Blaavands Huk	1019·9	52	W	3	o	1015·9	-1	52	0	W	3	–	o	5	Trace	54	50				
	Copenhagen ...	1019·5	54	WSW	3	m	1013·0	-2	52	+6	WSW	4	–	m	*	1	54	45				
	Bornholm ...	1019·9	48	WSW	7	f	1012·2	-2	50	+4	W	8	–	f	2	1	48	43				
FRANCE, &c.	The Helder ...	1025·7	52	SW	3	f	1023·7	-2	52	0	WSW	3	–	c	1	–	52	52				
	C. Gris Nez ...	1027·9	52	SW	4	f	1027·9	0	50	-3	WSW	3	*	o	2	1	57	50				
	La Hève	?	53	SW	1	f	?	*	50	0	WNW	1	*	o	2	1	55	46				
	Brest (St. Mathieu)	1031·9	53	E	1	m	1030·7	0	46	-6	NE	1	*	m	5	1	57	48				
	Rochefort (Ile d'Aix)	1029·2	48	E	2	b	1027·3	0	45	+2	ENE	4	*	b	*	–	59	45				
	Biarritz	1027·3	52	WSW	3	bc	1025·1	0	46	+3	SW	2	*	b	2	–	57	46				
	Paris	1030·3	50	–	0	o	1029·0	-1	48	+16	–	0	–	f	*	Trace	55	32				
	Belfort	1030·3	43	ENE	4	f	1029·7	*	41	+2	E	3	*	f	*	–	45	41				
	Lyons	1029·2	48	E	6	o	1028·3	*	43		–	0	*	o	*	–	50	42				
	Nice	1020·0	62	–	0	b	1020·3	+2	57	-5	–	0	*	r	3	–	70	54				
	Perpignan ...	1023·8	52	W	1	b	1022·1	-2	43	-7	W	1	–	b	*	–	61	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1023·5	61	NE	5	bc	1023·5	0	48	-9	SE	2	–	b	1	–	66	46				
	Madrid	1022·1	59	–	0	b	1025·0	+2	46	+3	N	1	–	b	*	–	61	39				
	Lisbon	1020·4	61	NE	4	b	1020·2	0	52	-2	NNE	4	–	b	5	–	64	52				
	Azores (Horta) ...	1009·0	*	NNE	4	c	1010·7	0	62	0	N	5	*	r	4	17	72	59				
	Madeira	1013·3	70	E	3	c	1013·0	0	64	-6	E	3	–	o	3	–	77	64				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1016·6	+3	61	+4	SW	1	S	c	1	13	73	55				
	Limassol	*	*	*	*	*	1019·0	+2	61	-3	–	0	–	b	3	–	81	55				
	Alexandria ...	1017·1	70	ENE	2	b	1018·0	0	73	+1	ENE	2	E	b	1	–	79	68				
	Cairo (Helwan) ...	1014·4	75	NE	4	b	1016	+2	72	+6	–	0	–	b	*	–	91	64				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Stornoway.
11th 6p.m Squalls W 8.
Eskdalemuir
11th 2p.m SW 8
11th 5p.m WSW 8
11th 6p.m-Midt. WSW 8
Gusts WSW 24 m.p.s.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	99	1·8	58	46	40	–	o	o.c.bc	bc.
CITY (Bunhill Row)	*	*	0·9	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	87	98	1·0	58	46	39	–	oe.bc	oe.bc	bm.o.
CAMDEN SQ. (British Rainfall) ..	86	99	1·4	58	45	42	Trace	om.o	bc.o.	*
HAMPSTEAD (Reservoir)	*	100	1·7	56	44	33	Trace	oe.cm	ome	ome
S. KENSINGTON (Museum Grounds)	*	99	1·2	61	?	?	–	o.od.oe	o.bc	b
RICHMOND PARK	*	*	2·0	*	*	*	*	*	*	*

SOUTH KENSINGTON.

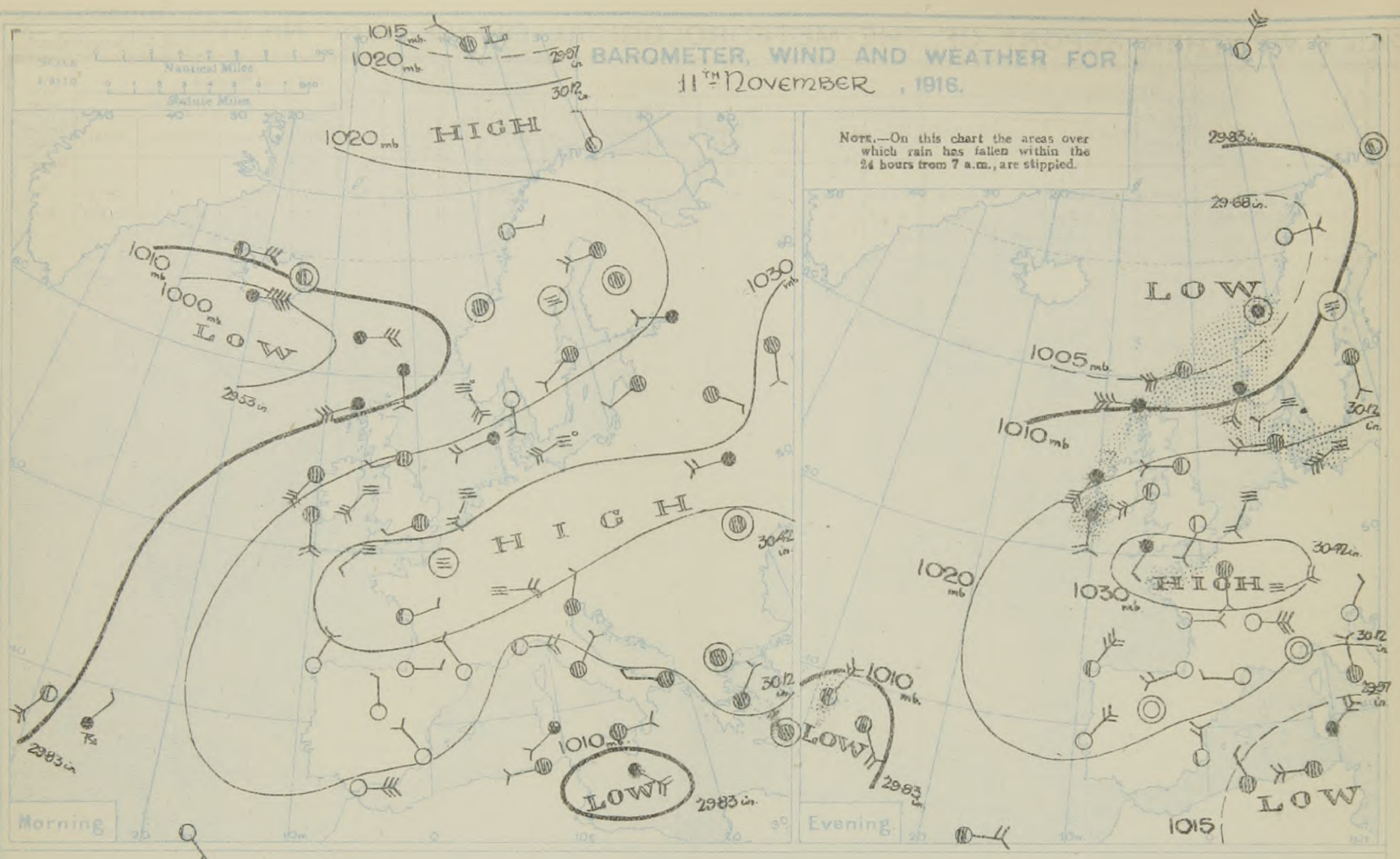
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
246	7·5	19·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

† Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 11TH NOVEMBER, 1916.



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; 2 a, b — Moderate or fresh Westerly winds; unsettled; continuing rather mild.

3; 4 a, b; 5 — Light or moderate Westerly winds; variable sky, but mostly dull, some mist; mild.

6 a, b; 7 a, b — Same as Nos. 0 to 2.

8 a, b — Light winds from between South and West; dull, some mist; mild.

9 a, b — Moderate or fresh South-Westerly or Southerly winds; dull, some mist; mild.

10 a, b — Same as No. 8.

Western Channel and Bay 11 — Light winds, indefinite in direction; smooth sea; dull, misty.

FURTHER OUTLOOK.

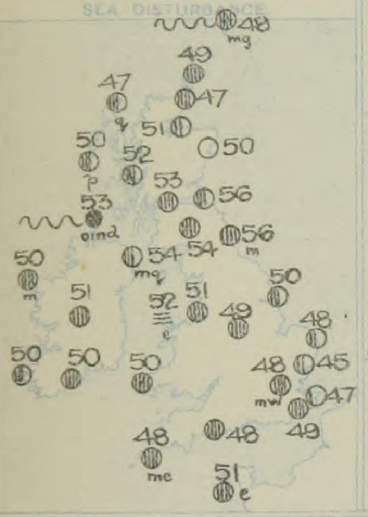
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Sunday, 12TH NOVEMBER, 1916.

GENERAL INFERENCE.

No great change in the general conditions is anticipated during the coming 24 hours.

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 ≈≈.

Scale 1 : 8 000 000
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

HIGH 32°

1020 mb.

1000 mb. LOW 29.53 in.

1000 mb. LOW

1005 mb.

1010 mb.

1015 mb.

40°

Barometer falling

1020 mb 50°

Barometer

Bar. 30.12 in.

29.97 in.

29.83 in.

29.68 in.

1025 mb

1030 mb

almost stationary

30.27 in.

HIGH

30.42 in.

1020 mb.

1015 mb.

50°

1010 mb

60°

LOW 29.83 in.

LOW 29.97 in.

60°

Issue No. 20079 — DAILY WEATHER REPORT. — Sunday, 12th November 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12	Weather	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F.	°F.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	-	-	-	-	-	1013·9	+2	39	0	S	3	0	-	*	37
	Gorki	1030·0	43	S	2	0	1024·8	0	39	-4	SE	1	0	-	*	32
	Velieki Luki ...	1029·2	46	-	0	0	1023·7	*	43	-2	SSE	3	r	-	*	43
	Hangö	-	-	-	-	-	1020·2	-1	43	-2	WSW	2	0	-	*	41
	Riga	1025·3	45	-	0	r	1024·0	+1	43	-3	WSW	1	0	7	*	43
	Petrograd ...	1024·6	46	SW	2	0	1020·3	-2	43	-5	WNW	2	r	8	48	43
	Moscow	1035·7	37	SSE	3	0	1030·9	*	36	-1	SSW	2	0	-	*	36
	Kiev	1030·6	41	SE	2	0	1030·4	-1	41	0·	W	3	r	-	*	39
	Kharkov ...	1034·6	34	E	2	b	1033·6	-1	23	-16	-	0	b	-	*	28
	Kishinev ...	1029·3	45	-	0	0	1029·0	0	45	-3	-	0	0	-	*	41·
	Elisabetgrad ..	1030·6	45	ESE	3	0	1031·8	0	28	-13	-	0	f	-	*	27·
	Nicolaiev ...	1030·4	45	-	0	b	1031·4	*	36	-3	-	0	f	-	*	34·
	Odessa	1026·3	46	ESE	3	0	1030·6	0	46	+3	SSE	2	0	-	*	48·
	Tarkhankout...	-	-	-	-	-	1029·9	*	37	-	E	2	b	-	*	37·
	Soukhoum ...	-	-	-	-	-	-	-	-	-	-	-	r	-	*	-
MEDITERRANEAN.	Venice	1021·4	57	SSE	4	c	1024·6	*	57	-	NNE	1	0	Trace	59	54
	Pesaro	1020·1	61	ENE	4	0	1023·7	*	57	0	-	0	0	36	64	54
	Rome	1012·9	61	NE	1	0	1017·5	*	62	-1	NE	2	0	-	64	57·
	Viesti	1020·2	56	-	0	0	1021·3	*	59	-2	SE	1	0	37	63	55
	Brindisi	1018·9	64	SE	2	0	1019·0	*	64	+5	NW	1	0	51	64	59
	Cagliari	1007·9	61	NW	4	c	1010·7	*	55	+1	SW	2	r	5	64	46
	Palermo	1007·4	55	-	0	0	1016·6	*	57	+3	E	2	0	5	66	50
	Tripoli	1011·1	57	NNW	4	c	1013·2	*	?	-	NNW	6	m	-	63	50
	Aigiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN.	Hernösand ...	1016·3	45	S	2	b	1016·2	*	34	-11	-	0	f	*	*	*
	Stockholm ...	1022·0	43	S	2	b	1019·9	*	43	0	SW	2	0	*	*	*
	Wisby	1024·7	46	WSW	2	0·	1022·1	*	45	0·	SW	4	r	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F.	°F.			
Isafjord ...	1012·3	32	+2	E	5	c
Reykjavik	1006·9	39	+12	ENE	7	0
Vestmanna	999·8	36	+12	E	9	r
Seydisfjord	1013·2	23	+2	-	0	c
Thorshavn	1003·6	42	+3	E	5	r·

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	8	6	57	45	r	o	0·0
	Banff	1	-	63	46	bc	pd. bc	0·6
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	Trace	-	55	50	o	o.c.bc.c	0·2
	Skegness	-	-	60	42	wbc	bc	1·5
Eng. N.W.	Morecambe							
	Southport	-	-	55	51	o.bc.o	o.c.bc	1·3
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	60	50	bc	b.bc	1·2
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	54	50	o.c	c.o	0·0
	Tenby	Trace	Trace	57	44	od	o.	0·0
England. E.	Lowestoft	-	-	57	42	ombcm	bcmf	0·9
	Felixstowe							
	Walton-on-Naze							
	Southend-on-Sea	-	-	56	50	o	o.c.bc.b	0·5
England, S.E.	Margate	-	-	57	46	o	o	0·0
	Ramsgate	-	-	55	49	o	c.o	0·2
	Hastings	Trace	-	55	51	om.f	f.m	0·0
	Eastbourne	-	-	55	53	o	f.m	0·0
	Seaford	*	*					
	Brighton	-	-	54	53	o	o	0·0
	Worthing	1	-	55	52	oe	oe	0·0
	Littlehampton	Trace	-	55	52	om	o	0·0
	Bognor	*	*	56	51	od	do	0·0
	Bournemouth	-	-	56	50	fo.	a	0·0
England. S.W.	Weymouth...	*	*					
	Torquay	Trace	-	56	48	om	om	0·0
	Paignton	*	*	55	45	o	o	0·0
	Penzance	Trace	-	55	51	of	of	0·0
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

12th/13th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·10 / 7·12	11·37 / 11·37	4·4 / 4·3
Greenwich	7·14 / 7·16	11·44 / 11·44	4·14 / 4·13
Wick	7·55 / 7·58	11·56 / 11·56	3·57 / 3·55
Valencia	7·57 / 7·59	12·25 / 12·25	4·53 / 4·52

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.
STATION. Date and Hour.	Benson. 7th 15.44 h		Benson. 8th 12.40 h		Benson. 9th 11.44 h									
2	+17	+12	+10	0										
1	+15	+9	+11	-1	+9	-2								
0·5	+11	+9	+9	+1	+6	+2								
0	-	-	-	-	-	-								

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 318. Monday, 13th November.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	10123	45	WNW	3	om	10190	+3	42	-6	NW	2	-	o	2	1	48	40	o bc	bc om.	bc o	*
	Deerness (Orkney)	10159	46	W	4	r	10213	*	44	-5	NW	1	-	o	1	1	50	43	o	or	od.	00.
	Stornoway ...	10168	52	WSW	5	odq	10211	+2	52	+5	W	3	-	od	3	7	52	47	cor	odq	od.	05.
	Castlebay (Barra Isd.)	10204	52	WSW	4	d	10238	+3	50	0	W	3	-	d	3	1	53	50	cpr	rd	d.	00.
	Glasgow ...	10223	52	S	2	ozg	10240	+2	52	-1	WSW	1	-	o	*	Trace	54	51	odp	odpoz	obcco	00
	Eskdalemuir ...	10236	51	SSW	3	om	10245	0	49	-5	SW	2	-	o	*	1	54	47	od ome	omd me	o	00
	Malin Head ...	10220	55	SW	4	c	10241	+2	51	-2	WSW	3	-	om	3	0·1	56	50	bc m	c.	om	00.
	Blacksod Point	10234	50	SSW	4	om.	10242	0	50	0	SSW	2	-	om	3	0·3	52	49	cm	cm.	ofe om	*
	Valencia ...	10257	55	SSE	2	c	10254	0	50	0	SSE	2	SW	o	3	0·2	55	49	c	c.o.c.	bc.c.o	14
	Roche's Point	10282	49	SSW	1	f	10270	*	44	-6	SE	2	-	f	3	1	51	44	ofe	ofe.	fe.	*
	Birr Castle ...	10263	51	S	1	o	10260	*	48	-3	S	1	S	c	*	-	55	46	o	o	oc	00.
	Donaghadee ...	10237	54	W	4	cgm	10245	+1	51	-3	W	2	-	ogm	1	-	55	51	cmq	cgm.	cgmo	*
	Liverpool (Bidston)	10269	52	WNW	1	m	10266	0	44	-7	-	0	-	f	0	-	57	44	bcm	om	f	07.
	Holyhead ...	10270	51	SW	4	fe	10263	+1	51	-1	SW	4	-	fd	3	0.2	58	50	fe	fe	fe.cfd.	00.
	Pembroke (St. Ann's)	10286	49	S	1	f	10275	-1	49	-1	SSE	1	-	fe	3	0·3	51	47	of	of	f. fe	00
	Scilly (St. Mary's)																					
	Falmouth ...	10290	49	SSE	1	f	10274	0	46	-2	NE	1	-	f	*	Trace	50	43	f	f.	feme f	00.
	Jersey (St. Aubin)	10276	50	NNW	2	ogc	10267	*	50	-1	E	3	-	oc	2	Trace	54	48	oc. bc.b.	bogc.	ofe	18.
	Portland Bill ...	10279	50	NNW	1	b	10271	-1	48	0	-	0	-	f	3	-	52	47	c.o.	o.c	f	*
	Dungeness ...	10272	50	-	0	f	10283	0	45	-4	SW	2	-	f	1	-	51	44	o	of	f	*
	Dover	10283	47	-	0	m	10265	0	47	0	-	0	-	bc	2	Trace	55	42	bc	c.bcf	bcfmw	32
	Wick	10164	46	-	0	m	10217	+3	44	-3	N	1	-	r	2	6	50	44	ogbc	omp.	omd.	*
	Nairn	10167	53	W	3	o	10201	*	54	+3	W	1	-	og	1	1	54	47	bc og	dcg	qgo	04
	Aberdeen	10175	49	SSW	1	bc	10214	+3	49	-1	NE	1	-	o	2	0·1	55	48	b bc	odbc	bco.	00.
	Leith	10211	55	W	2	c	10228	0	53	-3	WNW	1	NW	c	3	-	57	52	cg oe	o	c.bc	*
	Tynemouth ...	10222	54	WNW	4	cmq	10229	0	53	-3	NW	2	W	cm	3	-	57	52	bcm	cmq	cm.	*
	Spurn Head ...	10247	51	WNW	3	om	10249	+1	49	-1	WNW	3	-	bcm	4	-	53	46	c.o	om	cm.	00.
	Yarmouth ...	10261	52	NW	2	bc	10258	0	47	-1	NW	3	-	bc	2	-	60	47	bc	bc.	bc	54
	Clacton-on-Sea	10270	50	WNW	1	bc	10257	0	44	-1	WNW	2	NW	bc	1	0·3	52	43	bc me	bcme	c.bcme	33
	Nottingham ...	10261	51	W	2	o	10258	*	46	-3	W	2	W	bc	*	-	58	46	om.c.	c.o.	o.c.	06.
	Benson (Oxon.) ...	10271	47	-	0	m	10263	0	42	-4	-	0	-	fe	*	0·2	52	42	m	m.	cm.	*
	Sth Farnborough	10280	48	W	2	b	10263	0	40	-9	WNW	2	NW	cf	*	-	54	40	om	o bm.	bf.ocf	00.
	London (Kew Obsy.)	10274	49	-	0	bf	10267	0	42	-6	-	0	-	f	*	0·1	53	41	om w	om wbmf	bffe f	01.
NORTHERN EUROPE.	Spitsbergen ...	10180	-13	S	5	b	10130	-2	3	+12	NE	4	*	b	*	*	3	-13				
	Vardö	10126	21	NE	3	c	10166	+1	19	-9	W	3	-	o	3	*	28	18.				
	Bodö	10058	36	E	2	b	10125	+5	34	-3	E	2	-	b	2	-	37	32				
	Christiansund ...	10029	45	W	7	o	10124	+7	37	-11	-	0	-	b	4	10	48	34				
	Skudesnaes ...	10125	46	WNW	4	o	10120	+1	45	-3	NW	6	-	c	4	1	48	41				
	Færder (X'tania Fjord)	10060	50	SW	4	c	10045	+3	43	-	NW	1	N	b	3	1	50	43				
	The Scaw (Skagen)	10092	48	W	5	b	10048	-2	46	-4	NW	7	-	b	7	-	54	46				
	Blaavands Huk	10176	50	NW	3	o	10141	-2	50	-2	NW	4	-	o	4	-	54	46				
	Copenhagen ...	10130	50	NW	2	o	10090	-4	48	-4	W	4	-	r	*	Trace	54	46				
	Bornholm ...	10115	48	WNW	8	o	10086	-2	46	-4	WNW	8	-	m	3	Trace	50	46				
FRANCE, &c.	The Helder ...	10240	52	W	3	c	10220	0	54	+2	W	4	NW	bc	2	Trace	54	52				
	C. Gris Nez ...	10279	50	WSW	2	f	10255	-1	52	+2	WSW	2	*	f	2	-	52	48				
	La Hève	10243	51	NNW	1	bc	10242	*	48	-2	WNW	1	*	f	1	-	54	46				
	Brest (St. Mathieu)	10282	50	NE	1	m	10269	+1	43	-3	E	3	*	c	3	-	54	39				
	Rochefort (Ile d'Aix)	10252	52	NE	3	b	10246	0	46	+1	ENE	4	*	o	*	-	59	45				
	Biarritz	10233	52	-	0	b	10227	0	48	+2	SSE	1	*	b	2	-	59	46				
	Paris	10279	48	-	0	o	10271	+1	48	0	N	1	*	o	*	Trace	50	48				
	Belfort	10273	43	E	2	m	10269	*	39	-2	E	5	*	f	*	-	50	37				
	Lyons	10266	44	NE	2	o	10256	*	41	-2	N	1	*	f	*	-	48	39				
	Nice	10194	55	-	0	b	10183	0	53	-4	E	3	*	b	2	-	66	48				
	Perpignan ...	10198	55	-	0	b	10197	+1	41	-2	-	0	-	b	*	-	66	39				
	Sanguinaire ...	10159	64	W	1	o	10157	*	62	-	E	2	*	o	3	-	66	55				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	10109	*	N	5	bc							*									
	Madeira	10122	70	E	3	o	10126	+1	64	0	S	2	-	o	2	-	72	64				
	Gibraltar	10196	62	E	4	b	10193	*	62	-	E	4	*	b	3	-	66	59.				
	Malta	*	*	*	*	*	10153	0	59	-2	SSW	1	-	c	1	5	75	57.				
	Limassol	*	*	*	*	*	10166	+1	61	0	-	0	-	b	2	-	79	52.				
	Alexandria ...	10164	72	NNE	3	b	10172	0	72	-1	-	0	-	b	0	-	77	66.				
	Cairo (Helwan) ...	10143	75	NE	4	b	10151	+1	73	+1	-	0	-	b	*	-	90	64				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7..23h

2,700	metres	W.N.W	11 mps
2,400	"	NW	10 "
2,100	"	NW'W.	9 "
1,800	"	WNW.	6 "
1,500	"	NW	5 "
1,200	"	NW	5 "
900	"	NW'W.	6 "
600	"	WNW	5 "
300.	"	WNW.	4 "
Surface		W.	4 "

GALES
Duration and Extreme Force in British Islands.

Notes

Valencia: 12th November. Lunar Halo @ 20h.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. Today.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	93	93	0·0	52	42	35	0·3	o.	oz.	bz. m.
CITY (Bunhill Row)	*	*	1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	99	0·0	54	43	41	-	m o	m o	om.
CAMDEN SQ. (British Rainfall, ...	-	99	0·0	54	43	43	Trace	-	-	*
HAMPSTEAD (Reservoir)	*	99	0·3	53	39	30	Trace	ome	bome	bome
S. KENSINGTON (Museum Grounds)	*	98	0·0	54	43	40	Trace	om bm	bm	bmwfe
RICHMOND PARK	*	*	0·0	*	*	*	*	*	*	*

SOUTH KENSINGTON.

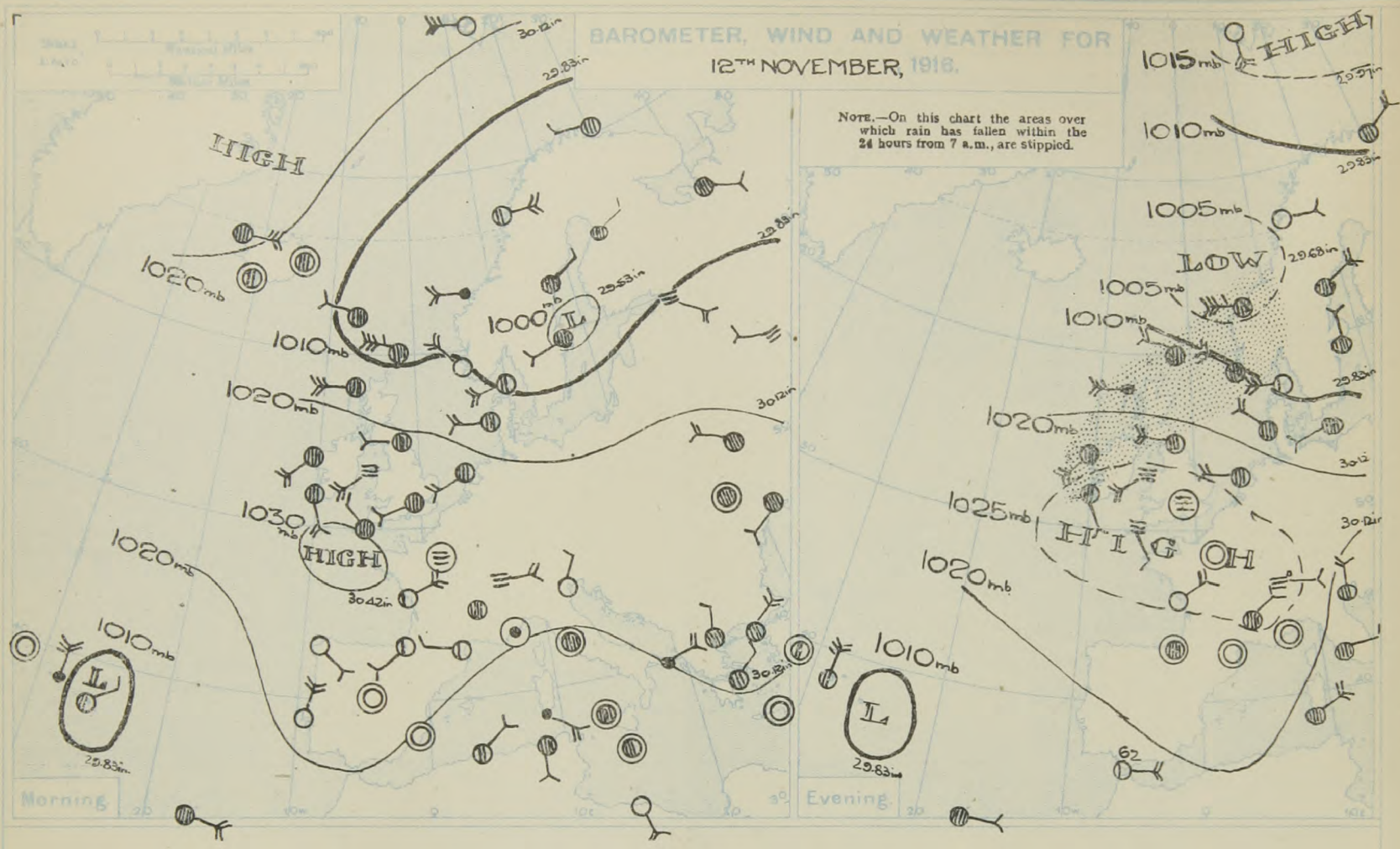
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
187	5·8.	13·0.

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* Unreceived. ‡ Received too late for insertion in Charts. † The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 12TH NOVEMBER, 1918.



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

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

Light winds, indefinite in direction; weather mainly dull, with a good deal of mist and fog; temperature about normal.

Light or moderate Easterly winds; slight sea; dull, improving somewhat.

FURTHER OUTLOOK.

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

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

SYNOPTIC CHART FOR THE MORNING OF MONDAY, 13TH NOVEMBER, 1916.

GENERAL INFERENCE.

The anticyclone over England and northern France seems likely to move slowly northward.

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 ≈≈.

1015mb
1015mb
HIGH
1010mb
1005mb
1020mb
Barometer rising
LOW
40°
50°
Barometer
Barometer falling
1025mb
HIGH
scarcely
changing
30·12in
30·27in
29·68in
29·83in
29·97in
1020mb.
1015mb
LOW
29·97in.

Scale 1:28·000000
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 50 | 50–60 | 60–70 | Above 70°
Scale of Tints for NOVEMBER.

Issue No. 20,080

DAILY WEATHER REPORT.

Monday, 13th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			° F.					‡	° F.	° F.					° F	° F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1012·6	39	S	3	o	1007·7	o	32	-7	NNE	2	o	–	*	30
	Gorki	1026·0	43	S	1	o	1017·1	-4	41	+2	S	1	r	3	*	37
	Velieki Luki ...	.	.	.	.	.	1015·4	*	41	-2	S	2	o	1	*	37
	Hangö	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.
	Riga	1020·6	43	SW	2	o	1007·1	-10	43	o	SSW	5	r	6	*	43
	Petrograd ...	1017·3	41	SSW	2	o	1010·7	-6	39	-4	SE	3	f	2	43	37
	Moscow	1020·4	36	SSE	2	r	1016·0	-3	39	+3	WNW	2	o	2	*	34
	Kiev	1025·6	45	W	2	r	1023·4	-2	41	o	WNW	3	o	–	*	41
	Kharkov ...	1026·1	37	SE	2	o	1020·0	-3	39	+16	–	o	f	14	*	37
	Kishinev ...	1026·6	45	–	o	o	1024·3	-1	43	-2	–	o	o	–	*	39
	Elisabetgrad ...	1027·0	41	W	2	o	1023·7	-2	43	+15	WNW	2	o	1	*	44
	Nicolaiev ...	1027·5	43	–	o	bc	1024·4	*	43	+7	SW	2	o	–	*	36
	Odessa	1028·0	50	SE	2	o	1025·1	-1	46	o	SE	1	o	–	*	46
	Tarkhankout...	1032·0	61	E	3	bc	1025·0	*	41	+4	E	1	bc	–	*	39
	Soukhoum ...	1022·4	54	NNE	2	c	1021·2	+1	52		–	o	c	–	*	48
MEDITERRANEAN.	Venice	1023·4	57	NE	1	b	1022·8	*	54	-3	NNE	1	b	–	64	52
	Pesaro	1021·3	56	SW	2	bc	1021·9	*	57	o	W	1	c	–	64	54
	Rome	1016·9	63	N	1	o	1016·9	*	55	-7	–	o	o	Trace	66	55
	Viesti	1019·7	61	ESE	1	o	1020·2	*	57	-2	SE	1	r	10	66	55
	Brindisi	1018·7	63	SE	3	o	1018·9	c	61	-3	E	3	r	23	64	54
	Cagliari	1011·9	63	NE	4	r	1013·5	*	55	o	SE	3	r	10	64	46
	Palermo	1012·6	51	–	o	o	1016·1	*	55	-2	–	o	o	–	66	46
	Tripoli	1014·9	55	–	o	b	1017·3	*	54	-5	S	2	b	–	68	43
	Algiers	1014·0	57	NNW	1	o	1014·0	+2	57		NE	2	bc	50	61	55
SWEDEN	Hernösand ...	1013·7	39	–	o	f	1003·0	*	37	+3	NE	2	o	*	*	*
	Stockholm ...	1014·9	45	S	2	o	999·2	*	50	+7	WSW	2	o	*	*	*
	Wisby	1017·2	45	SW	2	o	1003·4	*	48	+3	WSW	2	bc	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		° F	F			
Isafjord ...	1022·3	36	+4	E	5	o
Reykjavik	1017·1	25	-14	–	o	bc
Vestmanna	1015·5	30	-6	–	o	b
Seydisfjord	1015·0	21	-2	–	o	c
Thorshavn	1008·0	40	-2	WNW	2	o

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	16
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	4	–	53	52	cp	o	0·0
	Banff	–	Trace	50	48	bc.c	o d.c	0·9
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Engd. N.E.	Harrogate	–	–	53	50	o	o.c	0·0
	Skegness	–	–	58	48	o.c.bc	c.bc	0·4
Engd. N.W.	Morecambe							
	Southport	–	–	53	50	o	bc.c.o	0·1
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales	Rhyl	–	–	59	50	c	c.bc.c	1·3
	Colwyn Bay...	*	*	60	52	bc	bc	1·6
	Llandudno	*	*	56	52	c	c	1·3
	Aberystwyth	*	*	54	49	r.o.c	c.o	0·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	° F.	° F.			Hr.
England, E.	Lowestoft							
	Felixstowe	Trace	–	57	45	bc	bc.	4·8
	Walton-on-Naze							
	Southend-on-Sea	–	–	52	45	oj	o.c.bc.b	0·0
England, S.E.	Margate	–	–	52	46	o	o	0·0
	Ramsgate	–	–	52	43	m	m.	0·6
	Hastings	Trace	–	53	48	f.m.bc	bc.	0·2
	Eastbourne	–	–	52	48	om	om	0·0
	Seaford	*	*					
	Brighton							
	Worthing	–	–	53	49	o	o	0·0
	Littlehampton	–	–	53	49	o	o	0·0
	Bognor	*	*					
	Bournemouth	–	–	53	46	o	o.of	0·0
England, S.W.	Weymouth...	*	*					
	Torquay	–	–	54	46	om	om	0·0
	Paignton	*	*					
	Penzance							
	Newquay	1	Trace	53	47	f	f	0·2
	Bude	1	–	54	48	f.of	f	0·0
	Ilfracombe							
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

13th & 14th November 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T	G.M.T
Yarmouth	7.12 / 7.14	11.57 / 11.58	4.3 / 4.2
Greenwich	7.16 / 7.18	11.44 / 11.45	4.13 / 4.12
Wick	7.58 / 8.0	11.56 / 11.57	3.55 / 3.53
Valencia	7.59 / 8.1	12.25 / 12.26	4.52 / 4.51

NOTES ON YESTERDAY'S WEATHER.

Rainfall measurements were, for the most part, very slight. Yarmouth had 5·4 hours of sunshine, but over the country generally the day was dull, with a good deal of mist and fog in the south.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 319. Tuesday, 14th November

	STATIONS.	YESTERDAY EVENING. Barom Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING. 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.	Rainfall. Millimetres.	PAST 24 HOURS. Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	10263	42	N	2	bc	10305	0	39	-3	-	0	-	c	0	-	46	38	bco	bc.	bcc	*
	Deerness (Orkney)	10271	43	NNE	1	bc	10301	*	45	+1	SE	2	-	c	2	-	47	41	ocbc	bc.	bcc	2·4
	Stornoway ...	10264	50	WNW	1	o	10280	0	50	-2	SSE	3	-	o	3	3	53	49	odr	odor	odp.	0·1
	Castlebay (Barra Isd.)	10269	52	S	1	odp	10270	0	52	+2	E	5	-	op	5	0·2	52	50	d.	dodp	dpop	0·0
	Glasgow ...	10266	51	WSW	1	bz	10294	+1	47	-5	ENE	2	-	ome	*	Trace	53	46	omg	omgcz.	bmame	0·0
	Eskdalemuir ...	10272	50	SSE	1	o	10300	+1	47	-2	N	2	-	o	*	-	54	46	oog	ogbco	ofo.	0·1
	Malin Head ...	10361	51	ENE	2	cm	10266	0	50	-1	SE	2	-	om	2	-	53	48	cm	cm.	om	0·1
	Blacksod Point	10255	49	SSW	2	cm	10239	-2	49	-1	ESE	3	-	om	3	0·2	51	49	cm	cm.	cmom	*
	Valencia ...	10255	50	SSE	1	b	10240	-1	50	0	ESE	3	-	o	3	-	54	47	o	o.bcb.	bbco	0·8
	Roche's Point	10272	50	SE	2	f	10266	*	49	0	SE	3	-	o	3	1	51	47	fe	fe.	fe.o	*
	Birr Castle ...	10268	52	-	0	o	10258	*	48	0	SE	1	-	o	*	Trace	53	46	o	o	oe	0·0
	Donaghadee ...	10261	52	N	1	ogme	10275	0	50	-1	SSE	2	-	ofe	1	0·1	55	48	cf.	of	ofe.	*
	Liverpool (Bidston)	10279	49	-	0	f	10290	0	49	+5	ESE	2	-	om	1	-	51	44	of	of	om	0·0
	Holyhead ...	10271	50	SW	2	f	10275	0	49	-2	SW	1	-	cm	0	0·1	52	48	fd.	fd.	fdcm	0·0
	Pembroke (St. Ann's)	10273	49	E	1	f	10273	0	48	-1	ESE	2	-	fe	3	4	52	45	f	f	·bfe	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	10258	49	ENE	1	o	10274	0	48	+2	ESE	1	-	om	*	Trace	50	46	fomo	odm.	omfeo	0·6
	Jersey (St. Aubin)	10266	49	E	2	fe	10268	*	47	-3	E	2	-	fe	1	0·2	51	45	ofe	ofe.	fe	0·0
	Portland Bill ...	10268	51	WNW	1	b	10271	0	50	+2	NE	2	-	og	2	-	52	46	f.o.	bc.	bcc.o	*
	Dungeness ...	10257	48	WSW	2	f	10270	+1	51	+6	N	2	N	c	2	-	53	44	f.bc	cf.	f.cm.	*
	Dover	10265	52	-	0	m	10278	0	51	+4	N	4	N	c	2	-	62	47	m.bc.b.	bmw.	mbcw	6·3
	Wick	10273	44	NNW	1	bc	10299	+1	46	+2	ESE	3	-	o	3	0·3	47	35	omdg	o.bc	bcmo	*
	Nairn	10267	47	E	1	omdg	10290	*	46	-8	-	0	-	omw	1	2	54	45	od.	odg.	omd.	0·0
	Aberdeen	10276	45	NNE	2	o	10313	+1	45	-4	ESE	2	-	o	2	1	51	45	oodm	odm.	od.	0·0
	Leith	10262	53	WSW	1	bc	10293	0	49	-4	E	1	-	o	2	-	56	48	cbcb	b	bcomo	*
	Tynemouth ...	10261	53	WNW	1	om.	10304	+1	48	-5	E	2	-	og	4	2	57	47	bemq	cm.	omp	*
	Spurn Head ...	10260	50	NW	2	cm	10296	+1	47	-2	E	3	-	c	3	-	52	45	bcom	om.	om	4·2
	Yarmouth ...	10259	53	NW	2	b	10288	+2	47	0	NE	4	-	c	3	-	60	46	bcbm	bm.	bmbm	6·9
	Clacton-on-Sea	10257	54	WNW	2	bc	10287	+1	49	+5	NNW	2	-	c	1	-	59	43	bcm.	bcm.	bcm.c	6·5
	Nottingham ...	10269	50	W	1	b	10297	*	50	+4	E	2	-	o	*	-	60	45	bm	bm	bmc	4·5
	Benson (Oxon.) ...	10266	49	-	0	f	10285	+1	42	0	-	0	-	f	*	-	47	38	f	f	f.b	*
	Sth Farnborough	10265	45	NW	2	b	10282	+1	42	+2	NW	2	-	f	*	-	56	37	cfgbc	ba.bf	bf.of	3·0
	London (Kew Obsy.)	10269	44	-	0	f	10286	+1	45	+3	-	0	-	fw	*	Trace	51	40	f	f.bcmf.	f.fw	1·1
NORTHERN EUROPE.	Spitsbergen ...	10003	-2	SE	4	b	10060	-4	3	0	N	3	*	s	*	*	3	-6				
	Vardö	10143	21	W	3	b	10175	+3	27	+8	SW	3	-	o	4	*	27	16				
	Bodö	10223	34	N	1	b	10253	+2	37	+3	WSW	4	-	o	2	-	36	30				
	Christiansund ...	10240	36	-	0	b	10306	+3	37	0	-	0	-	o	3	1	39	32				
	Skudesnaes ...	10217	41	NNW	3	c	10278	+1	39	-6	NNE	2	-	b	2	-	46	37				
	Færder (Christiania Fjord)	10211	44	NNE	6	b	10275	+4	37	-6	N	2	-	b	1	-	45	37				
	The Scaw (Skagen)	10158	45	NNE	5	o	10256	+2	39	-7	NE	2	N	bc	3	-	50	37				
	Blaavands Huk	10186	48	NNW	6	b	10277	+4	37	-13	NE	1	-	b	2	-	52	36				
	Copenhagen ...	10109	45	N	5	o	10243	+4	37	-11	NNE	4	-	b	*	-	48	37				
	Bornholm ...	10060	43	N	8	b	10211	+5	39	-7	NNE	8	-	o	3	Trace	48	37				
FRANCE, &c.	The Helder ...	10238	52	NW	3	a	10271	+1	50	-4	NNE	2	-	o	1	-	54	48				
	C. Gris Nez ...	10257	50	WSW	2	m	10229	+1	53	+1	NE	4	*	bc	1	-	54	48				
	La Hève	?	50	SSW	1	f	?	*	48	0	-	0	*	f	0	-	54	46				
	Brest (St. Mathieu)	10263	45	ESE	2	o	10261	0	48	+5	E	3	*	o	2	-	48	43				
	Rochefort (Ile d'Aix)	10242	50	E	3	o	10250	0	50	+4	ENE	4	*	o	*	-	52	48				
	Biarritz	10229	54	SSE	1	m	10229	0	50	+2	ESE	1	*	m	1	-	59	48				
	Paris	10263	50	N	1	o	10266	0	48	0	NNW	1	-	o	*	-	54	46				
	Belfort	10259	46	E	2	m	10250	*	43	+4	E	3	*	f	*	-	50	43				
	Lyons	10251	45	-	0	f	10239	*	48	+7	NNW	2	*	o	*	1	50	41				
	Nice	10175	53	-	0	b	10143	-1	56	+3	-	0	*	b	2	-	63	50				
	Perpignan ...	10186	61	NE	1	bc	10177	0	57	+16	NNW	2	-	b	*	-	70	41				
	Sanguinaire ...	10146	61	E	1	o	10151	*	57	-5	E	2	*	b	1	-	66	52				
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon	10194	66	NNE	2	b	10206	0	54	+2	N	2	-	b	2	-	70	52				
	Azores (Horta) ...	10021	*	N	5	c	10211	+4	57	-4	NNW	3	*	b	1	3	64	57				
	Madeira	10144	66	SW	3	r	10166	0	63	-1	W	2	-	b	2	-	72	63				
	Gibraltar	10203	60	SE	3	b	10196	*	51	-11	SE	2	*	m	4	-	66	50				
	Malta	*	*	*	*	*	10124	-1	59	0	WNW	3	-	c	2	2	72	57				
	Limassol	*	*	*	*	*	10162	+1	63	+2	SSW	1	-	o	3	-	75	52				
	Alexandria ...	10158	70	ENE	2	b	10146	0	66	-6	SE	3	-	b	2	-	82	64				
	Cairo (Helwan) ...	10141	75	NE	3	b	10143	+1	66	-7	-	0	-	b	*	-	91	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

LONDON OBSERVATIONS.

	Humidity 15 h. Yesterday.	Humidity 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	89	99	3·2	51	39	36	-	bm.	bm.z	mf.om
CITY (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	98	95	0·0	52	43	39	-	f	f	of.
CAMDEN SQ. (British Rainfall) ...	92	99	0·8	52	44	41	-	fe.o.	bcmfe	*
HAMPSTEAD (Reservoir)	*	97	5·7	50	47	34	Trace	bcf	b	ome.
S. KENSINGTON (Museum Grounds)	*	96	8·0	51	45	37	Trace	m.f.	f.	fe.me.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

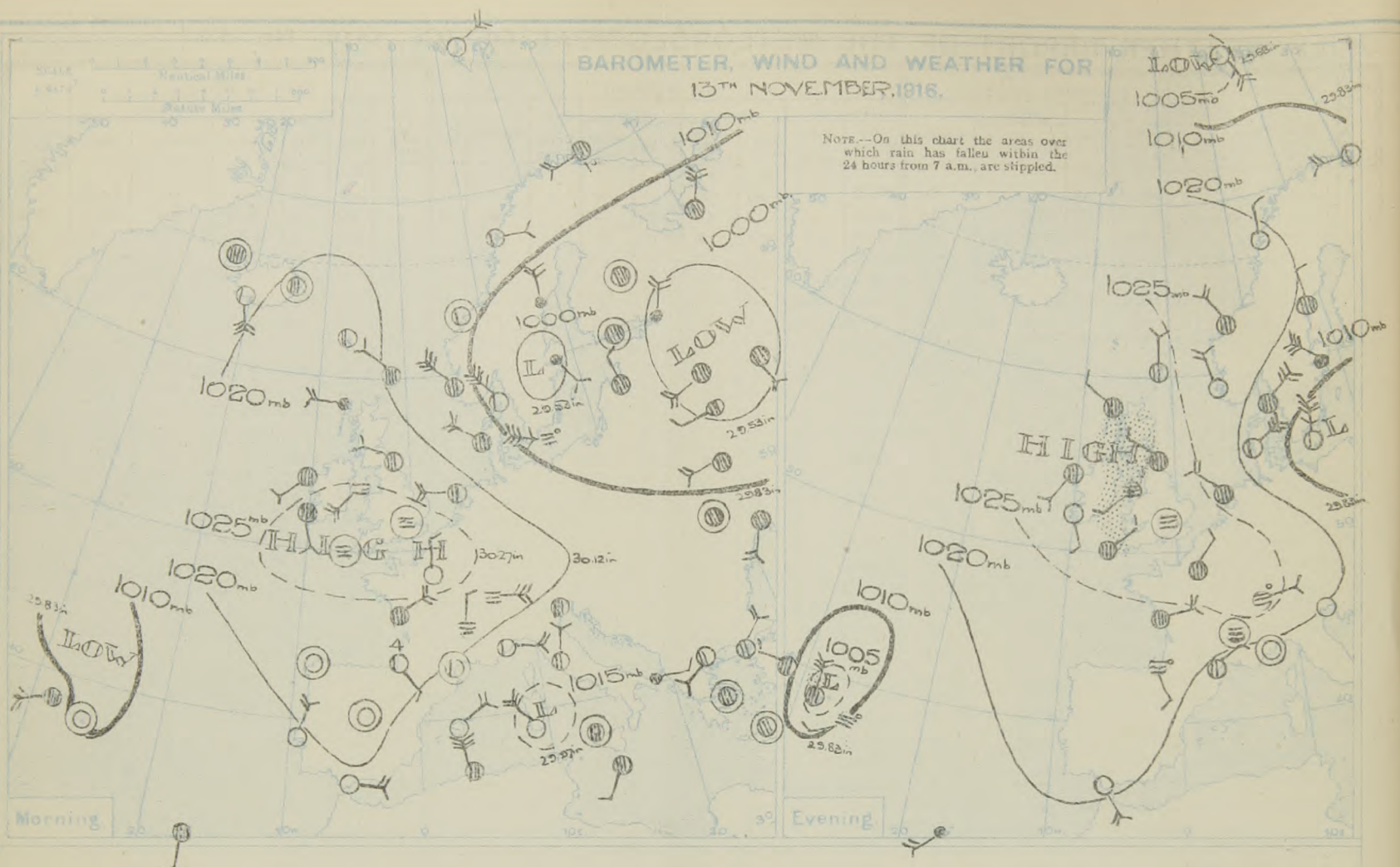
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
255	7·9	190

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

STORM WARNINGS.

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

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

No Warnings Issued.

0a, 0b, 1 — Wind variable, light, or between South and East; variable sky, some mist and fog; moderate temperature.

2a, 2b, 3, 4a, 4b, 5 — Wind light, mainly between East and North; variable sky, some mist and fog, mostly inland; temperature falling.

6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b — Wind light to moderate, mainly between South-East and South; mostly fair, some mist and fog; moderate temperature.

11 Western Channel and Bay — Easterly and South-Easterly winds, light to moderate; sea slight; some mist, otherwise fair.

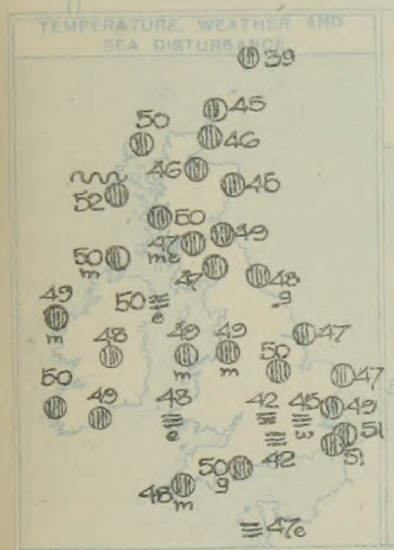
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 14TH NOVEMBER, 1916.

GENERAL INFERENCE.

The anticyclone appears likely to maintain its position with little modification.



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 ≈≈.

Issue No. 20081

DAILY WEATHER REPORT.

Tuesday, 14th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1004·8	30	N	1	o	1008·7	+5	25	-7	NE	5	o	–	*	23
	Gorki	1002·7	41	SW	1	r	998·3	o	43	+2	W	1	c	9	*	39
	Velieki Luki ...	997·7	48	S	3	r	997·6	*	39	-2	WSW	4	o	9	*	39
	Hangö	-	-	-	-	-	1003·7	+1	46	-	–	o	o	2	*	37
	Riga	1001·2	45	WNW	5	o	1004·3	o	43	o	N	1	o	2	*	43
	Petrograd ...	995·7	39	E	4	r	997·5	+4	37	-2	NNE	4	r	14	43	37
	Moscow	1000·9	36	SE	2	bc	997·2	-9	37	-2	S	3	o	–	*	34
	Kiev	1019·3	45	W	4	o	1009·3	o	48	+7	W	3	o	2	*	41
	Kharkov ...	1016·7	41	W	1	o	1008·7	-5	43	+4	SW	3	r	1	*	39
	Kishinev ...	1018·1	43	–	o	o	1015·3	-1	43	o	–	o	o	–	*	41
	Elisabetgrad ...	1017·5	45	–	o	o	1012·2	-3	46	+3	W	4	o	1	*	43
	Nicolaiev ...	1019·3	46	SW	2	o	1015·3	*	45	+2	SW	3	o	–	*	37
	Odessa	1020·7	43	WNW	2	o	1016·6	-1	45	-1	W	3	o	–	*	41
	Tarkhankout...	1020·6	52	SW	4	o	1017·3	*	52	+11	WSW	3	o	–	*	41
	Soukhoum ...	1019·0	54	NNE	1	o	1018·7	o	50	-2	NE	1	o	–	*	48
Mediterranean.	Venice	1019·9	55	–	o	c	1017·7	*	52	-2	–	o	c	–	63	52
	Pesaro	1021·4	53	WSW	1	bc	1018·4	*	55	-2	W	1	o	–	61	54
	Rome	1017·5	55	E	1	o	1016·9	*	52	-3	–	o	bc	8	64	48
	Viesti	1018·9	55	–	o	bc	1016·7	*	55	-2	W	2	o	–	63	54
	Brindisi	1016·2	64	NE	1	o	1015·1	*	63	-8	E	1	r	–	64	59
	Cagliari	1014·6	63	ENE	4	c	1014·8	*	55	o	NW	4	b	–	64	45
	Palermo	1016·7	61	–	o	o	1016·1	*	59	+4	–	o	c	–	64	?
	Tripoli	1014·7	61	–	o	b	1014·8	*	57	+3	SW	1	o	–	73	52
	Algiers	1014·6	55	NE	3	r	1016·0	+2	61	+4	NNE	3	c	30	64	55
Sweden.	Hernösand ...	1006·9	37	NE	4	o	1008·6	*	32	-5	N	6	r	*	*	*
	Stockholm ...	1005·2	41	N	2	o	998·9	*	41	-9	SSE	2	r	*	*	*
	Wisby	1005·6	45	WSW	4	o	1000·6	*	45	-3	SW	2	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1019·9	36	o	–	o	o
Reykjavik	1019·1	37	+12	ESE	2	c
Vestmanna	1019·8	37	+7	SSE	6	b
Seydisfjord	1022·9	28	+7	–	o	c
Thorshavn	1021·2	33	-7	–	o	bc

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	–	1	52	51	ob	bc.b	0.0
	Banff	5	1	48	44	or.o	c	0.0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	-	-	59	48	bc	c	5.6
Eng. N.E.	Harrogate	-	-	55	47	b	b.bc.c	4.3
	Skegness	Trace	-	60	44	bz	bcz	4.9
Eng. N.W.	Morecambe	-	Trace	50	49	-	-	0.0
	Southport	Trace	Trace	50	46	oc d	o.c	0.0
Midlands.	Leamington Spa							
	Malvern	-	-	52	41	m b	b m	5.0
	Ross-on-Wye	-	-	59	42	f. bc	b	5.2
Wales.	Rhyl	-	-	58	41	c.o	c bcg	0.9
	Colwyn Bay...	*	*	52	44	bc	bc.o	2.3
	Llandudno	*	*	56	46	c	c	1.4
	Aberystwyth	*	*	50	42	o.c	c.o	0.5
	Tenby	-	-	54	46	bc	bc	4.3

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	Trace	-	59	48	bc b bc	bc	7.0
	Felixstowe	Trace	-	61	44	bcm	bcm	7.0
	Walton-on-Naze							
	Southend-on-Sea	-	-	53	44	ofc	c.bc.bf	3.4
England, S.E.	Margate	-	-	58	46	b	b.bc.b	5.3
	Ramsgate	-	-	58	42	bc	bcm	5.8
	Hastings	Trace	-	50	44	f. m	f	0.0
	Eastbourne	-	-	52	42	o. bc	b.bc.om	0.0
	Seaford	*	*	50	42	f	f	0.0
	Brighton	-	-	53	45	f	f	0.0
	Worthing	-	-	49	45	m	m	0.0
	Littlehampton	Trace	-	48	40	m o	o m	0.0
	Bognor	*	*	48	44	ofc	ofc	0.0
	Bournemouth	Trace	-	56	43	o	o. bc	4.6
England, S.W.	Weymouth...	*	*	50	42	f. oc bc	bcz	3.6
	Torquay	-	-	52	41	om	c.bcm	2.3
	Paignton	*	*					
	Penzance	Trace	-	52	43	oz	bc.oz	2.0
	Newquay	1	-	52	38	bf.b	b	2.2
	Bude	-	-	51	38	b	b	5.5
	Ilfracombe	-	-	52	45	f	f.bc	2.5
	Weston-s-Mare	-	-	49	45	f.c	c.f	0.0

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

14th & 15th November, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7.14 7.16	11.32 11.28	4.2 4.0
Greenwich	7.18 7.20	11.45 11.45	4.12 4.10
Wick	8.0 8.3	11.57 11.57	3.53 3.51
Valencia	8.1 8.3	12.26 12.26	4.51 4.49

NOTES ON YESTERDAY'S WEATHER.

Much fog and mist prevailed over the United Kingdom yesterday, but on the south-east and east coasts there was much bright sunshine, with a temperature of about 60°. Slight rain fell locally in the 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 320. Wednesday 15th November

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	1031·8	42	SSE	2	bc	1028·8	?	46	+7	SSE	4	-	o	4	-	46	38	bc	bc	o.	*
	Deerness (Orkney)	1030·3	46	ESE	4	c	1026·7	*	46	+1	SSE	5	S	b	4	-	47	45	c.	c.bc.c.	c.bc	o.b.
	Stornoway ...	1027·1	52	SE	2	o	1024·2	-1	52	+2	S	5	-	op.	4	1	52	50	odpv	ov.o.	o	oo.
	Castlebay (Barra Isd.)	1026·3	54	S	4	o	1023·8	0	52	0	SSW	4	-	o	4	0·3	54	51	opom	om.	op	oo.
	Glasgow ...	1029·9	47	ENE	2	omg	1028·2	-1	44	-3	ENE	1	-	ou.	*	0·3	48	43	omd.og	oms.	oms.og	o·o.
	Eskdalemuir ...	1030·9	46	NNE	1	o	1029·3	-1	42	-5	-	0	-	o	*	0·2	49	41	oe.d.	od.o	o	o·o
	Malin Head ...	1025·4	52	SE	2	cm	1023·0	·2	51	+1	S	3	-	om	3	-	54	48	cm	cm.	om	o·o
	Blacksod Point	1023·2	50	SSE	3	cg	1020·0	-2	48	-1	SSE	3	S	cz	3	-	50	47	cm	cg	cg.cz	*
	Valencia ...	1023·5	51	SE	4	o	1020·0	-3	51	+1	SE	3	-	odp	3	0·1	53	50	o.c	c.o.d.	oc.o.	o'4
	Roche's Point	1026·0	50	SE	4	o	1023·2	*	50	+1	SE	3	-	o	4	1	51	49	ome	ome.	op.o	*
	Birr Castle ...	1025·8	50	S	2	o	1022·9	*	52	+4	SSE	1	-	o	*	Trace	52	46	c.o	me	o	o4
	Donaghadee ...	1027·2	52	SE	4	of	1025·7	0	49	-1	SSE	4	-	of	3	Trace	53	49	bcf	of.	of.	*
	Liverpool (Bidston)	1030·2	49	ESE	3	m	1028·9	0	43	-6	ESE	3	SE	bc	3	0·2	51	42	om	o'd	bom	oo
	Holyhead ...	1027·9	53	SE	1	om	1026·6	-1	50	+1	SSE	3	-	om	1	-	60	49	c.o.r.om	c.bc.om	c.of.om	1·3
	Pembroke (St. Ann's)	1027·8	51	SSE	2	m.	1026·1	-2	47	-1	E	4	-	o	3	-	52	46	fe	fm	f.o.	o·o.
	Scilly (St. Mary's)																					
	Falmouth ...	1026·8	52	SE	3	o	1025·4	0	51	+3	ESE	4	-	o	*	-	53	47	ome	oms.o.	o	o·o
	Jersey (St. Anbin)	1027·0	51	E	3	fe	1026·0	*	50	+3	E	5	-	b	3	Trace	51	46	oe	f.	fe.o.b	o·a
	Portland Bill ...	1027·5	52	E	3	om.	1027·0	-1	46	-4	E	4	E	bc	4	-	53	46	om	omg.	om.bc.	*
	Dungeness ...	1028·5	47	NE	3	c	1028·8	0	44	-7	ESE	3	SE	bc	3	0·2	52	44	f.bc	bc.	cc.p.c.	*
	Dover	1029·3	47	N	4	o	1029·6	+2	43	-8	E	4	E	b	4	Trace	51	42	c.o	o.	o.c.b.b	o·o
	Wick	1029·7	47	SE	4	o	1027·2	-1	46	0	SSE	4	-	bc	0	-	48	45	o	o.	o.bc.	*
	Nairn	1028·9	44	-	0	cm	1026·1	*	41	-5	-	0	-	bcm	1	-	49	40	bz.cm	cmg	c.bcm	3·1.
	Aberdeen	1032·1	46	SSE	3	o.	1029·9	-1	46	+1	S	2	-	o	2	Trace	48	45	o	odp.	od.o	o·o.
	Leith	1030·4	49	ESE	1	o.	1028·4	0	44	-5.	ESE	1	-	om	2	-	51	42	om.oe.	o.	oc.bm.o	*
	Tynemouth ...						1030·6	0	45	+3	SSW	2	-	om	3	-	48	42			om.	*
	Spurn Head ...	1030·5	47	E	3	o	1030·5	-1	46	+1	ESE	2	-	bc	3	-	49	44	ov	o	o.c.	o·o.
	Yarmouth ...	1030·0	48	NNE	4	o	1030·2	+1	47	0	SE	4	-	bc	3	-	49	45	c.o	o.	c.bc.	o·o.
	Clacton-on-Sea	1030·3	47	NNW	2	o	1030·2	0	46	-3	ESE	3	SE	bc	3	-	50	43	c.o	o	o.g.bc	o·o.
	Nottingham ...	1031·6	46	E	2	o.	1030·1	*	43	-7	SE	1	S	o	*	Trace	50	43	o.	od.	o.c	o·o
	Benson (Oxon.) ...	1029·8	47	E	2	o	1029·1	0	42	0	NE	2	-	o	*	-	50	40	f.	o.	o	*
	Sth Farnborough	1029·4	47	ENE	3	o	1028·8	+1	41	-1	ENE	2	E	cm.	*	-	49	39	of	f.o.	o.g.m	o·o.
	London (Kew Obsy.)	1030·7	48	NE	3	om.	1029·7	+1	43	-2	ESE	1	-	bm	*	Trace	50	42	f.w.o.m.d	o.m.	om.bm	o·o.
NORTHERN EUROPE.	Spitsbergen ...	1008·3	10	N	3	o	999·4	-6	12	+9	NNW	4	*	s	*	*	12.	1				
	Vardö	1017·6	28	SW	3	c	1015·5	-1	37	+10	W	3	-	o	3	*	37	18.				
	Bodö	1029·7	37	E	4	c	1029·9	0	39	+2	SSW	4	-	c	2	4	39	36.				
	Christiansund ...	1031·6	39	-	0	o	1032·7	0	34	-3	-	0	-	b	3	-	39	32.				
	Skudesnaes ...	1032·2	37	NNE	2	b	1032·9	0	43	+4	SE	4	-	o	2	-	43	34				
	Færder (X'tania Fjord)	1033·2	39	ENE	2	b	1035·1	*1	34	-3	NNE	4	-	b	1	-	39	34.				
	The Scaw (Skagen)	1030·0	39	NE	3	b	1033·2	+1	37	-2	NE	1	-	c	2	-	41	37.				
	Blaavands Huk	1031·7	37	NE	1	b	1034·0	+1	36	-1	NE	1	-	o	3	-	43	30				
	Copenhagen ...	1029·6	37	NE	4	o	1032·0	+2	36	-1	NE	4	-	b	*	-	39	34.				
	Bornholm ...	1026·7	39	NE	7	o	1028·3	+1	36	-3	NE	7	-	o	3	-	39	34				
FRANCE, &c.	The Helder ...	1029·2	46	ENE	2	b	1031·5	0	41	-9	E	1	-	c	1	-	50	39.				
	C. Gris Nez ...	1027·9	50	NE	3	bc	1029·3	+1	36	-17	E	3	*	b	2	-	54	36				
	La Hève	?	50	NE	3	bc	?	*	39	-9	ENE	2	*	m.	1	-	55	37.				
	Brest (St. Mathieu)	1026·4	50	ESE	3	o	1025·0	0	50	+2	ESE	3	*	o	2	-	52	48.				
	Rochefort (Ile d'Aix)	1024·0	52	E	4	o	1023·3	0	43	-7	ENE	4	*	b	*	-	?	?				
	Biarritz	1022·1	50	E	2	m	1021·0	0	45	-5	E	2	*	m.	1	-	52	45				
	Paris	1026·9	46	NNE	2	c	1026·6	+2	36	-12	NE	2	-	b	*	-	55	36.				
	Belfort	1024·7	41	E	6	o	1024·4	*	36	-7	ENE	6	*	b	*	-	52	36.				
	Lyons	1022·3	48	NNW	3	b	1019·3	*	38	-10	N	3	*	b	*	-	54	37.				
	Nice	1011·3	56	E	2	b	1009·1	-2	49	-7	E	6	*	4	6	1	66	46.				
	Perpignan ...	1013·9	59	NW	4	b	1013·9	0	48	-9	E	2	*	bc	*	-	70	46				
	Sanguinaire ...	*					*	*														
SOUTHERN STATIONS.	Corunna	1021·9	57	-	0	b	1019·4	-1	46	-4	SE	1	-	f	1	-	61	43				
	Madrid														*							
	Lisbon	1019·8	66	NW	3	b	1017·5	0	59	+5.	NNW	2	-	b	6	-	70	54				
	Azores (Horta) ...	1023·1	*	WSW	4	b.							*									
	Madeira	1018·3	72	W	1	c	1019·9	0	64	+1	N	2	-	o	2	-	73	63				
	Gibraltar	1018·3	59	NW	3	m	1015·6	*	59	+8	NW	5	*	b	2	-	70	50				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...	1011·5	75	ESE	2	b	1011·9	+3	70	+7	-	0	-	c	3	-	73	52				
	Cairo (Helwan) ...	1013·3	77	NE	1	bc	1013·9	+2	73	+7	NNW	3	W	bc	2	-	86	66.				
		1014·3					1014·3	+3	73	+7	-	0	S.W.	bc	*	-	91	66				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7.44 am.

3,000	metres.	NNE.	16 mps
2,700	"	NNE.	16 "
2,400	"	NE'N.	10 "
2,100	"	NE'E	4 "
1,800	"	E	5 "
1,500	"	ESE.	8 "
1,200	"	E'S.	7 "
900	"	E'N.	8 "
600	"	E'E.	8 "
300	"	ESE	7 "
Surface		E'N.	3 "

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Temperature: Min.	Temperature: Min. on Grass	Rainfall.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	90	0·0	51	36	29	-	o	o.c	bc. o.
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	86	0·0	52	43	38	-	f.o.	m.bcum	bcm
CAMDEN SQ. (British Rainfall) ..	89	96	0·0	51	39	35	Trace	om.o	o.om	*
HAMPSTEAD (Reservoir)	*	94	0·0	49	39	25	-	om	om.	cx.
S. KENSINGTON (Museum Grounds)	*	79	0·0	52	44	36	Trace	me.gm	ogm.o	o.
RICHMOND PARK	*	*	-	*	*	*	*	*	*	*

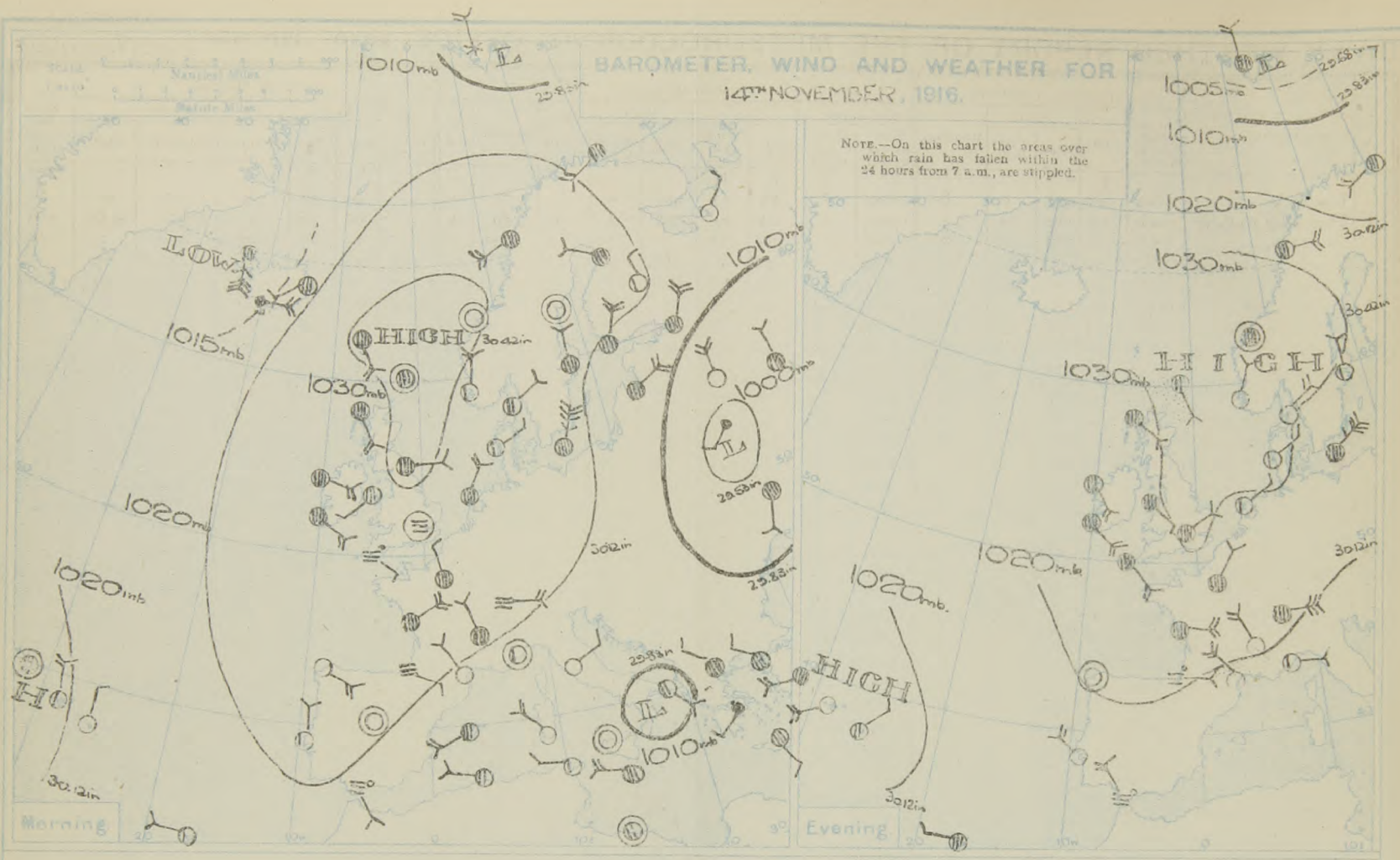
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
66	2·1	5·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON 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.

No Warnings Issued.

0 (a, b) Wind mainly Southerly, light to fresh; mostly fair, some rain in west; mild.

1, 2 (a, b) Wind mainly Southerly, light or moderate; fair generally; moderate temperature.

3, 4 (a, b), 5 Wind between East and South-East, light or moderate, fair generally, mist locally; moderately mild.

6 (a, b) Same as No. 0.

7 (a, b), 8 (a, b) South-Easterly and Southerly winds, light to fresh, mostly fair to cloudy; mild.

9 (a, b), 10 (a, b) Southerly winds, light to fresh; much cloud, some rain in west; mild.

11 South-Easterly winds, light to fresh; sea slight; cloudy.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 15th NOVEMBER, 1916.

GENERAL INFERENCE.

The anticyclone is likely to maintain its influence over the United Kingdom for the present.

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 ≈≈≈.

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 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

995 mb LOW

1000 mb 29.36in 29.53in 29.58in

1005 mb 29.52in

1010 mb 29.97in

1015 mb

1020 mb 1025 mb 30.12in

1030 mb 30.27in

45° 30.42in

1035 mb H 30.56in

Barometer falling

Barometer scarcely changing

45° 30.27in 30.12in 29.97in 29.83in

55° 29.83in

LOW 1010 mb

1015 mb

Issue No. 20,082

DAILY WEATHER REPORT.

Wednesday, 15th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1016·6	10	N	2	b	1019·4	+1	7	-18	NE	1	b	–	*	7
	Gorki	1000·3	37	SW	1	o	999·7	*	36	-7	SW	1	c	–	*	41
	Velieki Luki ...	1002·0	37	–	0	o	1006·3	*	34	-5	N	1	o	–	*	34
	Hangö	·	·	·	·	·	1018·1	+5	32	-14	NNE	1	o	–	*	30
	Riga	1003·1	37	ENE	2	r	1012·3	+5	36	-7	NE	1	o	9	*	36
	Petrograd ...	1008·0	34	NE	3	s	1012·6	+4	27	-10	NNE	1	o	1	39	27
	Moscow	9964	37	NW	3	r	1001·0	+2	34	-3	N	2	o	3	*	34
	Kiev	1007·4	45	W	4	o	1002·4	+3	45	-3	SSW	3	r	2	*	43
	Kharkov ...	1007·3	48	W	3	o	1006·3	o	45	+2	SW	2	o	1	*	43
	Kishinev ...														*	
	Elisabetgrad ...	1010·9	50	WSW	2	o	1007·0	-3	46	o	SSW	2	o	–	*	46
	Nicolaiev ...							*							*	
	Odessa	1014·1	50	WSW	2	o									*	
	Tarkhankout...	1016·0	55	WSW	3	o		*							*	
	Soukhoum ...	1017·2	50	NNE	2	b	1014·9	+1	54	+4	ENE	2	o	–	*	46
Mediterranean.	Venice	1016·6	55	–	o	bc	1012·9	*	43	-9	–	o	f	–	63	43
	Pesaro	1017·2	55	W	2	c	1012·6	*	46	-9	S	1	o	–	61	45
	Rome	1015·9	57	–	o	o	1013·2	*	50	-2	NE	1	b	–	63	48
	Viesti	1015·1	55	NNW	1	o	1012·0	*	57	+2	NW	1	c	1	64	54
	Brindisi	1009·7	54	SE	3	o	1009·4	*	57	-6	SSE	3	bc	Trace	61	55
	Cagliari	1015·9	63	NW	3	o	1014·8	*	55	o	NW	3	b	–	64	49
	Palermo	1015·0	55	ENE	1	b	1013·0	*	55	-4	–	o	b	2	68	48
	Tripoli	1014·6	69	ESE	1	bc	1014·6	*	65	-2	–	o	bc	1	68	52
	Algiers	1018·3	61	N	3	bc	1018·4	o	57	-4	W	2	bc	1	64	57
Sweden.	Hernösand ...	1019·5	30	N	2	o	1027·5	*	25	-7	–	o	b	*	*	*
	Stockholm ...	1013·3	37	NNE	4	r	1023·7	*	32	-9	N	2	o	*	*	*
	Wisby	1004·7	39	NW	6	r	1020·7	*	37	-8	N	6	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1011·7	50	+14	S	8	o
Reykjavik	1011·4	46	+9	S	5	o
Vestmanna	1014·7	45	+8	E	4	r
Seydisfjord	1019·9	34	+6	SW	2	c
Thorshavn	1035·1	42	+9	SSE	3	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	–	–	54	47	o c	b	0·0
	Banff	–	–	47	43	c. bc	bc	1·2
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	1	Trace	45	44	od	od	0·0
	Skegness	–	–	49	46	oug	oug	0·0
Eng. N.W.	Morecambe	–	–	51	49	–	–	0·0
	Southport	–	–	51	49	om	o	0·0
Midlands.	Leamington Spa							
	Malvern	–	–	50	44	m	m	0·0
	Ross-on-Wye	–	–	51	39	f	f	0·0
Wales.	Rhyl	–	–	56	46	og	og	0·0
	Colwyn Bay...	*	*	57	47	bc	bc	1·5
	Llandudno	*	*	58	48	c. bc	c	2·5
	Aberystwyth	*	*	57	42	o cb	b. bc	7·0
	Tenby	Trace	–	50	45	o	bc. c	0·2

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	–	–	52	47	c o	o	0·2
	Felixstowe	Trace	–	50	44	ov	c. om	0·4
	Walton-on-Naze							
	Southend-on-Sea	–	–	49	45	o	o	0·0
England. S.E.	Margate	–	–	52	48	c. bc	c	1·0
	Ramsgate	–	–	51	46	c. o	o	0·0
	Hastings	Trace	–	52	44	bcf. m	bc	0·4
	Eastbourne	Trace	–	51	42	o c	o. bc. o	0·0
	Seaford	*	*	52	41	f	f. b	0·0
	Brighton							
	Worthing	–	–	52	40	o	o	0·0
	Littlehampton	–	–	52	40	o	o	0·0
	Bognor	*	*	53	40	fe. o	o	0·0
	Bournemouth	–	–	53	41	m	m	0·6
England. S.W.	Weymouth...	*	*	53	43	m. oe	cg	0·0
	Torquay	–	–	53	41	om	om	0·0
	Paignton	*	*					
	Penzance	Trace	Trace	52	48	og	om. f	0·0
	Newquay	Trace	–	52	40	o	o	0·0
	Bude	–	–	57	38	bc c	o	5·4
	Ilfracombe	Trace	–	56	41	f bc	f bc	6·7
	Weston-s-Mare	–	–	53	38	m. o. c	c. om	0·0

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

15th & 16th Nov; 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	7·16 / 7·17	11·38 / 11·38	4·0 / 3·59
Greenwich	7·20 / 7·21	11·45 / 11·46	4·16 / 4·9
Wick	8·3 / 8·5	11·57 / 11·57	3·51 / 3·49
Valencia	8·3 / 8·14	12·26 / 12·26	4·49 / 4·48

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° in many parts of the Kingdom, and to above 55° in some south-western stations. The weather was dry generally, but except in the south-west there was little or no bright sunshine.

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

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

‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 321 { Thursday, 16th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.					Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1026·7	46	S	5	o	1023·2	-1	47	+1	SSE	6	-	oq	5	-	47	41	o	o.	oq	*
	Deerness (Orkney)	1027·4	46	SSE	6	bq	1028·9	*	44	-2	S	7	-	bq	6	-	48	43	bc.c.	o.c.bc	bc.bq	1·0
	Stornoway ...	1021·2	52	S	5	oq	1014·2	-1	49	-3	S	7	-	oq	5	0·1	52	48	odpq	odpq	o.c.oq	0·0
	Castlebay (Barra Isd.)	1020·4	50	SE	7	o													omp	omp		
	Glasgow ...	1025·6	42	SSE	2	bz	1022·1	-3	35	-9	E	1	-	c	*	-	45	35	omg	ogge.	bz.o.c.	0·0
	Eskdalemuir ...	1027·3	33	-	0	bc	1023·8	-2	32	-10	SSW	2	-	b	*	-	42	28	o	o.c.bc.	bc.bx	0·0
	Malin Head ...	1017·2	48	SE	5	cm	1011·8	-2	46	-5.	SE	6	-	omq	5	-	51	43	om	cm.	cmq	0·0
	Blacksod Point	1012·4	51	SSE	5	cg	1005·6	-6	48	0.	SSE	6	S	cqp	6	3	52	45	cg	cg	omrcp	*
	Valencia ...	1013·0	52	SSE	6	o	1006·0	-7	53	+2	SSE	6	.	op	*	10	53	46	c.odp	o.c.dp.	ro	0·0
	Roche's Point	1018·9	51	SE	6	o	1012·5	*	51	+1	SE	6	-	r	6	2	52	49	om.o	om.o.	or.d.	*
	Birr Castle ...	1019·1	50	SE	3	o	1012·0	*	49	-3	SE	3	-	o	*	0·1	52	47	omp.	oe	o	0·0
	Donaghadee ...	1022·3	47	SSE	3	ogm	1017·1	-2	45	-4	S	5	-	ogmq	4	0·1	50	45	ogmg	ogmp.	ogmq.	*
	Liverpool (Bidston)	1026·9	41	ESE	3	b	1023·0	-2	36	-7	ESE	4	SE	c	3	-	48	34	bm	bm	bc	5·4
	Holyhead ...	1023·9	45	SSE	4	b	1019·1	-2	42	-8	SSE	5	-	bcg	4	-	51	40	o.cm.	c.o.bc.b.	b.bc.c	0·6
	Pembroke (St. Ann's)	1022·8	50	ESE	5	c	1017·8	-3	47	o	SE	6	S	c	4	-	51	45	o.c	c.	bcc	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	1023·9	48	SE	5	bcq	1019·1	-1	45	-6	SSE	4	-	b	*	-	52	44	o	bc.c	bc.b	2·4
	Jersey (St. Aubin)	1024·0	45	E	4	b	1021·6	*	40	-10	E	4	E	c	3	-	50	39	b	b	bc	8·5
	Portland Bill ...	1025·4	48	ESE	5	bc	1022·1	-1	45	-1	SE	4	SE	c	4	-	52	44	bcc.	c.bc	bc.ac	*
	Dungeness ...	1026·5	43	ESE	4	bc	1024·6	-1	37	-7	ESE	4	-	o	3	-	50	37	c.bc	c.bc	bc.o	*
	Dover	1028·2	41	E	4	o	1025·8	-1	37	-6	E	4	E	o	4	-	46	37	b	bbc.co.	o	6·6
	Wick	1024·3	46	S	4	bc	1020·1	+1	44	-2	SSE	6	-	bc	5	-	48	43	bc.c	c.bc.m.	bc.	*
	Nairn	1023·7	44	-	0	bcm	1019·6	*	37	-4	-	0	-	bcm	1	-	49	37	bc.cm	cm.	bcm	0·0
	Aberdeen	1027·0	47	SSE	4	c	1023·8	-1	44	-2	SSE	4	-	c	3	-	48	43	o	o.c.	c.oq.c	0·0
	Leith	1026·1	42	SE	1	b	1023·2	-1	35	-9	NE	1	-	b	1	-	47	35	om.o.c	c.bc.b	b	*
	Tynemouth ...	1027·7	47	SSE	2	bcm	1025·0	?	39	-6	SSW	1	S	bcm	3	-	48	37	cm.	bcm.	bcm.	*
	Spurn Head ...	1029·3	47	SSW	4	bc	1025·5	-1	45	-1	S	4	-	c	4	2	49	40	bc	o.bc	c	4·2
	Yarmouth ...	1029·1	46	SSE	4	o	1026·3	0	41	-6	SE	5	-	o	4	-	47	40	bc	o.	c.o	3·8
	Clacton-on-Sea	1028·8	45	E	4	o	1025·7	-1	41	-5	E	3	E	o	3	-	49	41	bc	bc.c og	og	4·7
	Nottingham ...	1028·6	38	SE	2	b	1025·0	*	36	-7	ESE	1	SE	o	*	-	49	30	c.bc	bc.b	bc.c	4·8
	Benson (Oxon.) ...	1027·1	37	E	2	b	1024·3	-1	35	-7	SE	2	-	o	*	-	46	28	o.bc	b.	c.o.	*
	Sth Farnborough	1027·3	38	ENE	3	b	1024·5	-2	36	-5	E	3	-	om.	*	-	47	36	cm.b	b	bc.om	6·3
	London (Kew Obsy.)	1028·1	43	ESE	4	bc	1024·9	-2	37	-6.	SE	2	-	o	*	-	47	38	bm.c.f.bc	b.bm.bc	bc.bom	5·7
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1034·4	36	NE	1	b	1032·6	0	36	-1	E	1	-	o	2	-	41	34				
	Blaavands Huk	1033·9	34	ENE	2	b	1031·4	0	25	-11	E	2	-	b	1	-	39	25				
	Copenhagen ...	1032·6	86	NE	4	o	1030·4	-1	34	-2	NE	3	-	bc	*	-	37	32				
	Bornholm ...	1028·7	37	NE	8	o	1027·9	+2	36	0	NE	7	-	s	3	Trace	37	34				
FRANCE, &c.	The Helder ...	1030·4	41	E	2	o	1028·7	0	36	-5'	E	2	-	b	1	Trace	45	36				
	C. Gris Nez ...	1027·4	37	ENE	4	bc	1025·5	-1	32	-4	E	1	*	o	1	*	43	32				
	La Hève	*	48	ENE	3	m	*	*	30	-9	ENE	2	*	m	1	-	54	28				
	Brest (St. Mathieu)	1023·5	50	SE	3	b	1019·0	-1	42	-8	ESE	4	*	c	4	-	52	41				
	Rochefort (Ile d'Aix)	1021·3	41	ENE	4	b	1019·3	-1	34	-9	E	4	*	b	*	-	52	34				
	Biarritz	1018·9	41	E	2	bc	1017·7	-1	39	-6	SE	2	*	b	2	-	52	39				
	Paris	1025·5	37	NNE	2	b	1023·5	0	28	-8	NE	3	-	b	*	-	46	37				
	Belfort	1021·0	34	E	1	b	1023·0	*	25	-11	E	4	*	b	*	-	41	25				
	Lyons	1019·9	39	N	2	b	1021·2	*	28	-10	-	0	*	bc	*	-	46	27				
	Nice	1014·0	46	SE	3	b	1014·7	+1	44	-5	-	0	*	o	4	Trace	50	39				
	Perpignan ...	1016·6	46	NW	3	b	1017·0	0	34	-14	NW	1	-	b	*	-	54	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·1	55	W	3	b	1017·7	+1	48	+2	SE	2	-	o	2	b	55	46				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1019·4	*	WSW	7	o.	1012·4	-2	66	+2.	SW	9	*	m.	6	4	66	64				
	Madeira	1018·9	70	NE	3	r	1014·5	0	64	0	NE	3	N	bc	3	Trace	70	64				
	Gibraltar	1014·9	61	NW	5	b	1015·9	*	57	-2	NW	4	*	b	3	-	72	56				
	Malta	*	*	*	*	*	1009·9	+1	64	+5	SW	4	-	b	1	-	72	59				
	Limassol	*	*	*	*	*	1019·4	+3	64	-6	WSW	1	-	b	2	-	75	52				
	Alexandria ...	1018·3	68	WNW	2	bc	1021·3	+2	68	-5	-	0	-	b	0	-	81	64				
	Cairo (Helwan) ...	1017·7	73	N	2	bc	1019·5	+2	68	-5	NE	4	-	c	*	-	88	66				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .... 7.25 h.

600 metres, SE'E. 6. m.p.s
300 " . E's. 7. "
Surface E. 4. "

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F	°F.	mm.			
GREENWICH (Royal Observatory)	71	79	6·9	48	32	25	-	b.bc	bc.	c.b.c.o
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	77	79	5·2	49	37	32	-	bc	bc	bcu
CAMDEN SQ. (British Rainfall) ..	75	75	2·2	47	36	31	-	o.mbc	bc.o	*
HAMPSTEAD (Reservoir)	*	72	2·1	44	35	20	-	o.b.q	bc.	bc.ox
S. KENSINGTON (Museum Grounds)	*	72	5·0	48	38	28	-	o.bc	bc	bc.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

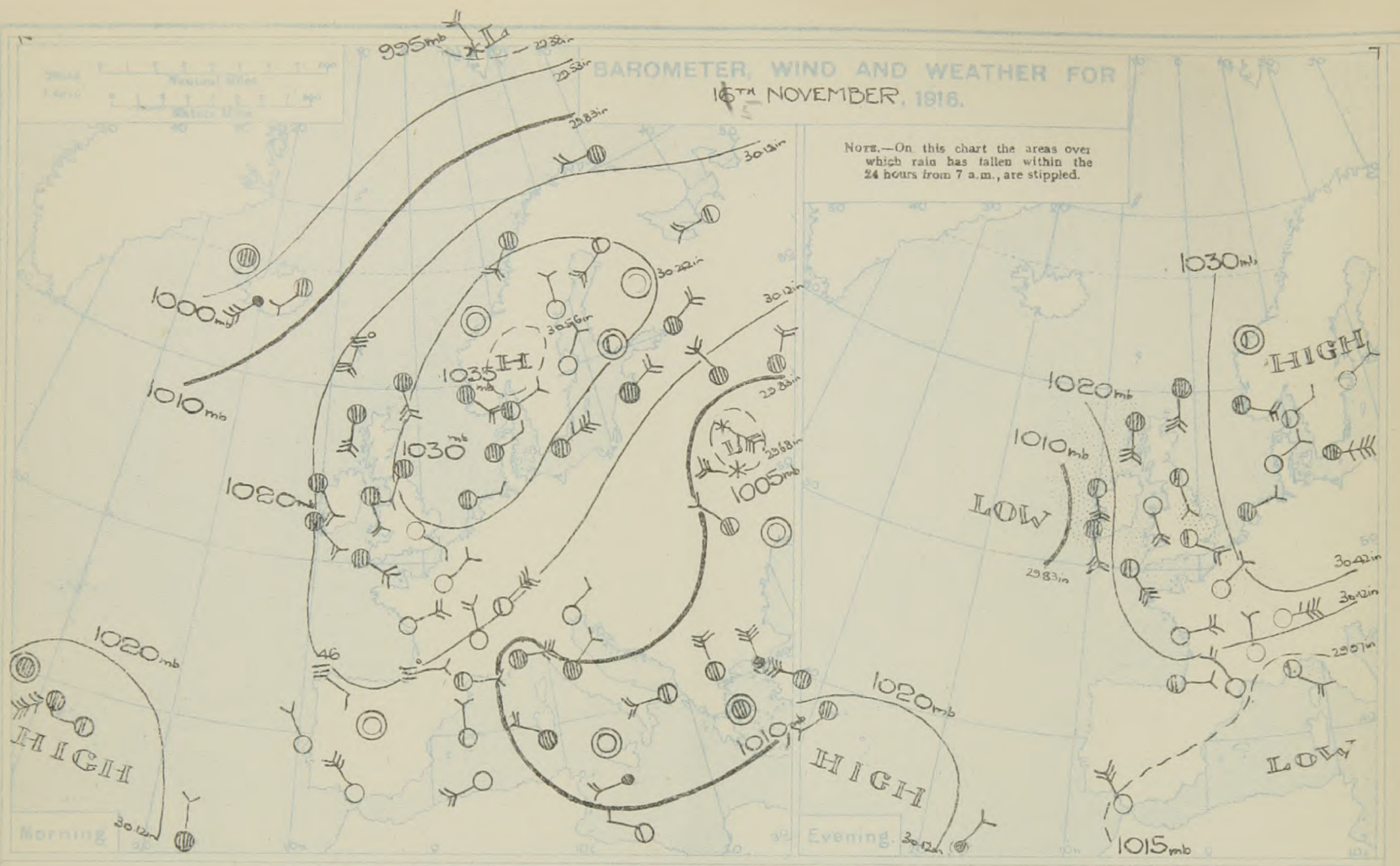
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
395	12·4	25

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

BAROMETER, WIND AND WEATHER FOR 16TH NOVEMBER, 1916.



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.

South Cone hoisted yesterday at 6.50 p.m in Dists. 0, 6, 9 & 10; & to-day at 7.55 a.m in Dists 01, 7, & 8.

0 a, b; 1	Wind mainly Southerly, fresh or strong to a gale; dull, some rain, squally; moderately low temperature.
2 a, b; 3	Wind between East and South, increasing; much cloud generally, rain probable to-morrow; temperature rather low.
4 a, b; 5	
6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b	Wind mainly Southerly, fresh or strong, a gale in places; much cloud, some rain; moderate temperature.
Western Channel and Bay 11	South-Easterly and Southerly winds, strong to a gale; sea rough; dull, some rain.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF THURSDAY 16TH NOVEMBER, 1916.

GENERAL INFERENCE.

The Atlantic depression will continue to extend eastward, and will probably move northward or north-eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

1025mb
1020mb
1015mb
1010mb
1005mb
1030mb.
45°
HIGH
Barometer steady
Barometer falling
LOW
LOW
1015mb
1010mb
29.68in.
29.83in.
29.97in.
30.12in.
30.27in.
30.42in.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ~~~.

SCALE 1 : 2 <10°
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

AGW.

Issue No. 20,083

DAILY WEATHER REPORT.

Thursday, 16th November, **1916.**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1023·7	18.	N	1	b	1027·8	+2.	23	+16.	W	3	bc	-	*	18.
	Gorki	1002·7	32.	E	6	s	1003·1	0	27	-9.	SE	7	s	-	*	27.
	Velieki Luki ...	.	.	.	.	.	1016·7	*	25	-9	NNW	4	o	-	*	25.
	Hangö	.	.	.	.	.	1030·6	+3	19	-13	NNE	1	b	-	*	18.
	Riga	1020·6	28.	NE	4	o	1028·1	+2.	28.	-8	NE	4	o	-	*	27.
	Petrograd ...	1022·7	25.	NE	6	c	1027·9	+3.	21	-6.	NE	4	b	-	27	21.
	Moscow	1011·0	12.	-	0	o	1013·6	0	21	-13.	NE	4	o	-	*	21.
	Kiev	1003·4	37.	W	4	o	1005·1	+3	34	-11	WNW	4	s	3	*	34
	Kharkov ...	1003·1	42.	S	3	r	1005·6	-3	37	-8	-	0	b	7	*	45.
	Kishinev ...	1007·8	41	-	0	bc	1009·5	0	36		NNW	2	c	1	*	36.
	Elisabetgrad ...	1006·0	41	WNW	3	o	1006·9	0	36	-10.	WNW	3	o	3	*	34
	Nicolaiev ...	.	.	.	.	.	1007·7	*	37.		ESE	2	o	2.	*	37
	Odessa	1008·6	45	NNW	3	o	1009·3	0	39		NNE	3	o	-	*	39
	Tarkhankout...	1008·4	55	W	4	o	1005·9	*	45		N	8	r	3	*	45.
	Soukhoum ...	1012·3	66	ENE	2	bc	1011·8	+1	64	+10	ENE	2	b	-	*	57
Mediterranean.	Venice	1015·3	54	E	2	r	1015·9	*	50.	+7	ENE	1	b	?	55	43
	Pesaro	1013·0	55.	NE	4	c	1014·9	*	50.	+4	NE	6	b	3.	59	45
	Rome	1009·9	55.	N	1	o	1009·9	*	48.	-2	N	1	c.	-	63	46
	Viesti	1009·4	55.	NE	2	c	1009·9	*	54	-3	NW	3	c	-	61	52.
	Brindisi	1005·4	61	NW	3	o	1006·2	*	57.	0	W	4	bc	-	61	57.
	Cagliari	1015·9	63.	NW	3	b	1009·4	*	57.	+2	NW	3	o	-	68	46
	Palermo	1011·0	50	-	0	b	1009·2	*	59	+4	-	0	b	7	64	50.
	Tripoli	1014·6	63.	-	0	b	1014·4	*	55	0	WNW	1	b	-	66	48
	Algiers	1013·0	59	W	2	b	1013·2	0	63	+6	WSW	4	b	-	64	55
Sweden.	Hernösand ...	1030·7	32	-	0	b	1034·6	*	21	-4	N	2	b	*	*	*
	Stockholm ...	1029·9	30	N	2	b	1032·9	*	28	-4	NNE	2	b	*	*	*
	Wisby	1026·3	37	NNE	6	o	1029·6	*	32.	-5	NE	4	o	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	998·5	49	-1	-	0	o
Reykjavik	1000·4	45	-1	S	2	r
Vestmanna	1001·5	43.	-2	SW	4	r
Seydisfjord	1006·0	51	+7	SW	2	c
Thorshavn	1020·2	49	+7	SSW	5	m.

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	-	-	50	48	o	o	0·0
	Banff	-	-	47	41	bc	bc.	3·1
	Montrose							
	Carnoustie	*	*					
	St. Andrews	-	-	47	39	cm	m.	0·2
Eng. N.E.	Harrogate	Trace	-	46	40	o.c	o.c.bc.	0·6
	Skegness	-	-	48	42	b.bc	bcg.b	6·0
Eng. N.W.	Morecambe	-	-	49	43			2·0
	Southport	-	-	49	41	b.bc.	bc.c.	3·7
Midlands.	Leamington Spa							
	Malvern	Trace	-	48	39.	c.bc.	bc.b	7·5
	Ross-on-Wye	-	-	48	37	cm.bc	bc.b.	3·2
Wales.	Rhyl	-	-	50	40	c	bc.	6·8
	Colwyn Bay...	*	*	50	44	bc	bc.	7·5
	Llandudno	*	*	55	44	b	b	5·9
	Aberystwyth	*	*	49	43	o.c.b	bc.o.	6·6
	Tenby	-	-	53	44	bc	bc.c.	1·4

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	-	49	44	c.o.c	c.o	4·4
	Felixstowe	Trace	-	48	42	bc.v	bc.	3·8
	Walton-on-Naze	-	-	47	43	b.bc.	bc.c.	4·1
	Southend-on-Sea	-	-	50	42.	bc.b	bc.c.o	6·2
England. S.E.	Margate	Trace	-	47	44	b	b.bc.c	6·4
	Ramsgate	-	-	46	41	bc	c.o	5·6
	Hastings	1	-	47	42.	cp.bc.b	b.bc.	6·8
	Eastbourne	-	-	48	42.	b	b	7·6
	Seaford	*	*	41	39.	c	c	7·0
	Brighton	-	-	49	42.	c.b	bc	7·9
	Worthing	-	-	48	41	bc	b	6·8
	Littlehampton	-	-	49	42.	bc	bc.	5·9
	Bognor	*	*	48	40	bc	bc	5·8
	Bournemouth	-	-	49	40	b.bc	c.b	3·0
England. S.W.	Weymouth...	*	*	52	41	3.bc	bc.c	1·8
	Torquay	-	-	53	47.	o	o.c.	0·0
	Paignton	*	*					
	Penzance	-	-	53	50	o.c	c.	1·5
	Newquay	1	-	52	45	bc.	bc	2·6
	Bude	-	-	55	43	bc	bc.	1·4
	Ilfracombe	-	-	52	42.	bc	bc.	2·9
	Weston-s-Mare	-	-	51	38	b.bc	b	3·3

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

16th & 17th Nov., 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7.17 7.19	11.38 11.38	3.59 3.57
Greenwich	7.21 7.23	11.45 11.45	4.9 4.7
Wick	8.5 8.7	11.57 11.57	3.49 3.47
Valencia	8.4 8.6	12.26 12.26	4.46 4.46

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° over our western and some of our southern districts. Rain was experienced in Ireland; 10 mm. at Valencia. Bright sunshine varied considerably, on the south and east coasts the records were rather high.

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; n. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 322 — Friday 17th November

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0–12	Weather.	THIS MORNING: 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 ...	1020.6	46	SSE	6	oqr	1017.0	-1	43	-4	SSE	6	-	oq	5	-	47	42	oq	oq	oq.	*
	Deerness (Orkney)	1016.2	46	SSE	7	oqu	1012.2	*	44	0	SE	7	-	oq	6	-	47	44	bbc	bc.c.oq	oq	0.0
	Stornoway ...	1009.1	46	SE	6	bq	1004.3	0	42	-7	SE	6	-	bcq	5	-	50	41	o.bcq	bc.bq	b.bcq	3.0
	Castlebay (Barra Isd.)	1008.1	45	SE	8	ogq													op	ogq		
	Glasgow ...	1016.3	37	SE	4	b	1009.0	-3	38	-2	E	4	SE	b	*	-	42	31	xc.bc.b	bc.b.	bx	4.9
	Eskdalemuir ...	1018.9	34	SE	5	o	1010.5	-4	33	+1	SE	6	-	bcq	*	-	40	30	bx.b	bc.c.o.	gc.bcq	5.5.
	Malin Head ...	1002.6	44	SE	8	cmq	0.020	-3	41	-5	SE	9	SE	cmq	8	-	47	36	cmq	cmq	cmq	1.7
	Blacksod Point	9.92.4	45	SE	9	omr	9.86.5	-4	43	-5	SE	8	-	om	7	.24	51	43	cg	omr	omrom	*
	Valencia ...	993.1	51	SE	8	r	984.2	-3	48	-5	NNW	3	-	or	4	.46	54	48	ogq	ogr	orq.ro	0.0.
	Roche's Point	1001.7	50	SE	8	o	982.5	*	49	-2	SE	9	-	r	7	.41	51	47	d.om	om.	r	*
	Birr Castle ...	1002.6	47	SE	6	o	984.1	*	43	-6	ESE	7	-	r	*	.4	49	43	o	o	or	0.2.
	Donaghadee ...	1010.1	43	SSE	6	ogmq	1006.5	-3	40	-5	NE	8	SE	omq	6	-	45	39	omq	ogmq	gmq	*
	Liverpool (Bidston)	1016.7	37	ESE	5	o	1006.8	-7	34	-2	E	6	SE	bc	5	-	44	32	bm	oq	bcq	2.1.
	Holyhead ...	1012.1	39	SSE	6	bq	998.8	-5	39	-3	SE	7	s	bq	6	-	45	37	bcq.	b.bc.bq.	b.bc.b	5.2
	Pembroke (St. Ann's)	1009.6	45	SE	6	c	993.6	-11	44	-3	ESE	9	-	oq	6	-	47	42	cq	cq	cq.	0.5.
	Scilly (St. Mary's)																					
	Falmouth ...	1016.8	45	SE	7	oq	994.6	-8	44	-1	SE	7	-	qr	*	16	47	43	bc.c.cq	cq.c.oq	oqrq	2.9.
	Jersey (St. Aubin)	1015.6	43	E	5	b	1004.1	*	39	-1	ESE	7	-	o	5	-	44	38	c.b	b.	bc.o	7.0.
	Portland Bill ...	1015.3	42	ESE	6	c	1003.9	-7	40	-5	SE	8	SE	c	6	-	46	40	bc	c.bc	bc.c	*
	Dungeness ...	1020.0	38	E	4	bc	1011.6	-3	36	+1	SE	4	SE	b	4	-	40	36	o.bc	bc	c.o.bc.	*
	Dover	?	38	ESE	5	c	1012.9	-3	34	-3	SE	6	SE	b	6	-	39	32	o.c.	bc.c.	c.bcb	2.2
	Wick	1015.1	44	SSE	6	o	1011.3	-2	45	-1	SSE	8	-	o	6	-	47	43	bcmq	bcq.cg	cgq.	*
	Nairn	1013.9	42	ESE	3	bcq	1009.5	*	41	+4	SW	2	-	cg	2	-	44	35	bc	bc	bcq.c	6.9
	Aberdeen	1019.2	44	SSE	6	o	1013.6	-2	43	-1	SSE	6	-	o	5	-	45	43	c	cq.o	oq	0.2.
	Leith	1018.1	38	SE	2	bc	1016.4	-2	39	+4	SE	3	SE	o	3	-	43	34	b.bcq.c	cq.c.bcc	bccqo	*
	Tynemouth ...	1020.0	42	S	5	omq	1013.2	?	40	+1	SSE	5	-	omq	5	-	42	36	cmq	omq	omq	*
	Spurn Head ...	1020.8	41	SE	6	cq	1014.0	-1	43	-2	SSE	7	-	bc	6	-	45	41	c	cq.	bcq	0.0.
	Yarmouth ...	1021.9	41	SE	5	o	1015.2	-6	40	-1	SSE	7	-	cq	6	-	42	40	c.o	o.	o.c	0.0.
	Clacton-on-Sea	1021.6	41	ESE	5	c	1014.7	-2	39	-2	SE	6	-	bc	5	-	41	39	ogc	c	c.ocbc	0.1.
	Nottingham ...	1020.8	38	SE	4	o	1011.9	*	33	-3	SE	4	-	b	*	-	40	31	o	o	o.c.b	0.0
	Benson (Oxon.) ...	1019.7	34	SE	3	bc	1009.6	-5	31	-4	ESE	4	-	b	*	-	37	31	o	o.c.	b.	*
	Sth Farnborough	1019.7	36	ENE	2	c	1009.9	-6	33	-3	ESE	3	-	b	*	-	38	32	om	o.c	b	0.1
	London (Kew Obsy.)	1021.1	37	ESE	3	o	1011.3	-4	33	-4.	E	4	-	bm	*	-	40	33	om.o.c	c.bc.o.o	o.bc.cm	2.4.
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1013.6	34	-	0	o	1010.0	-3	34	-2	SE	2	-	o	3	*	41	30.				
	Bodö	1025.9	43	SW	5	c	1024.6	0	41	-2	W	4	-	c	2	4	43	39.				
	Christiansund ...	1029.5	41	-	0	o	1025.2	-2	34	-5	-	-	-	o	3	-	41	32				
	Skudesnaes ...	1028.0	39	ESE	4	b	1023.5	-1	36	-3	E	3	-	b	2	-	39	34				
	Færder (X'tania Fjord)	1030.6	30	N	1	o	1023.9	-3	30	0	N	4	E	b	2	-	30	28				
	The Scaw (Skagen)	1030.3	36	E	2	b	1023.5	-4	36	0	N	2	-	c	2	-	37	32				
	Blaavands Huk	1028.3	28	E	1	b	1023.0	-3	25	0	E	1	-	b	1	-	36	21.				
	Copenhagen ...	1028.2	36	ENE	3	b	1022.3	-3	32	-2	NE	2	-	bc	*	-	36	32				
	Bornholm ...	1025.1	37	ENE	6	o	1020.3	-2	36	0	NE	5	-	o	2	-	37	34				
FRANCE, &c.	The Helder ...	1025.0	36	E	3	b	1019.4	-3	34	-2	E	3	-	c	1	-	41	28				
	C. Gris Nez ...	1021.3	32	E	2	b	1014.3	-3	28	-4	ESE	3	*	b	2	-	39	28				
	La Hève	?	36	ENE	5	b	?	*	28	-2	SE	5	*	b	2	-	46	28				
	Brest (St. Mathieu)	1011.3	43	SE	5	o	994.3	-10	43	+1	SSE	7	*	r	6	7	45	41.				
	Rochefort (Ile d'Aix)	1013.7	43	ESE	4	b	1005.8	-1	39	+5	SE	3	*	o	*	-	48	34.				
	Biarritz	1011.0	46	ESE	4	b	1001.2	+4	57	+18	SSW	3	*	o	2	-	54	45				
	Paris	1020.2	32	E	2	b	1013.1	-3	27	-1	E	2	-	b	*	-	41	27.				
	Belfort	1020.7	30	ENE	4	o	1017.5	*	23	-2	ENE	4	*	b	*	-	36	21.				
	Lyons	1020.0	30	-	0	b	1015.0	*	21	-7	-	0	*	f	*	-	39	21.				
	Nice	1015.1	43	-	0	o	1014.0	-1	37	-7	E	3	*	c	3	Trace	48	36.				
	Perpignan ...	1015.6	39	-	0	b	1011.0	-2	41	+7	-	0	-	o	*	-	54	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1014.0	54	S	1	b	1014.6	-1	45	-2	SW	1	-	f	*	-	55	41.				
	Lisbon																					
	Azores (Horta) ...	1019.0	*	SW	9	m.	1008.9	-2	66	0	WSW	9	*	m	6	-	68	66.				
	Madeira	1018.6	68	N	3	b	1018.1	0	63	-1	N	3	N	bc	3	-	72	63				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1018.3	+3	59	-5	WNW	1	-	o	1	-	72	59.				
	Limassol	*	*	*	*	*	1020.2	+2	61	-3	W	1	-	b	3	-	75	52				
	Alexandria ...	1021.3	68	-	0	b	1021.6	0	68	0	-	0	-	c	0	-	77	64.				
	Cairo (Helwan) ...	1019.4	70	NE	4	b	1019.3	+2	68	0	NE	4	-	b	*	-	81	64				

UPPER AIR.

South Farnborough.
Pilot Balloon Ascent at ..... 7.20h.

2,400	metres.	SE'E.	17 mps.
2,100	"	SE.	16. "
1,800	"	SE.	17. "
1,500	"	SE.	11. "
1,200	"	SE.	22. "
1,050	"	SE.	29. "
900	"	SE.	23. "
600	"	SE.	21. "
300	"	SE'E.	14 "
Surface		ESE.	11. "

GALES

Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Temperature: Min.	Temperature: Min. on Grass.	Rainfall.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
	%	%	Hours.	°F.	°F.	°F.	m/m.			
GREENWICH (Royal Observatory)	72	74	2.7	40	30	24	-	o	o.c	bc.b.
CITY (Bunhill Row)	*	*	0.6	*	*	*	*	*		*
WESTMINSTER (St. James's Park)			1.3							
CAMDEN SQ. (British Rainfall) ..	68	72	0.5	41	32	27	-	o	c.o.	*
HAMPSTEAD (Reservoir)	*	71	0.4	38	30	17	-	o.c.b	b	bcx.
S. KENSINGTON (Museum Grounds)	e	68	1.6.	40	33	29	-	bv.o.	bz.c.	bz.o.b
RICHMOND PARK	*	*	-	*	*	*	*	*	*	*

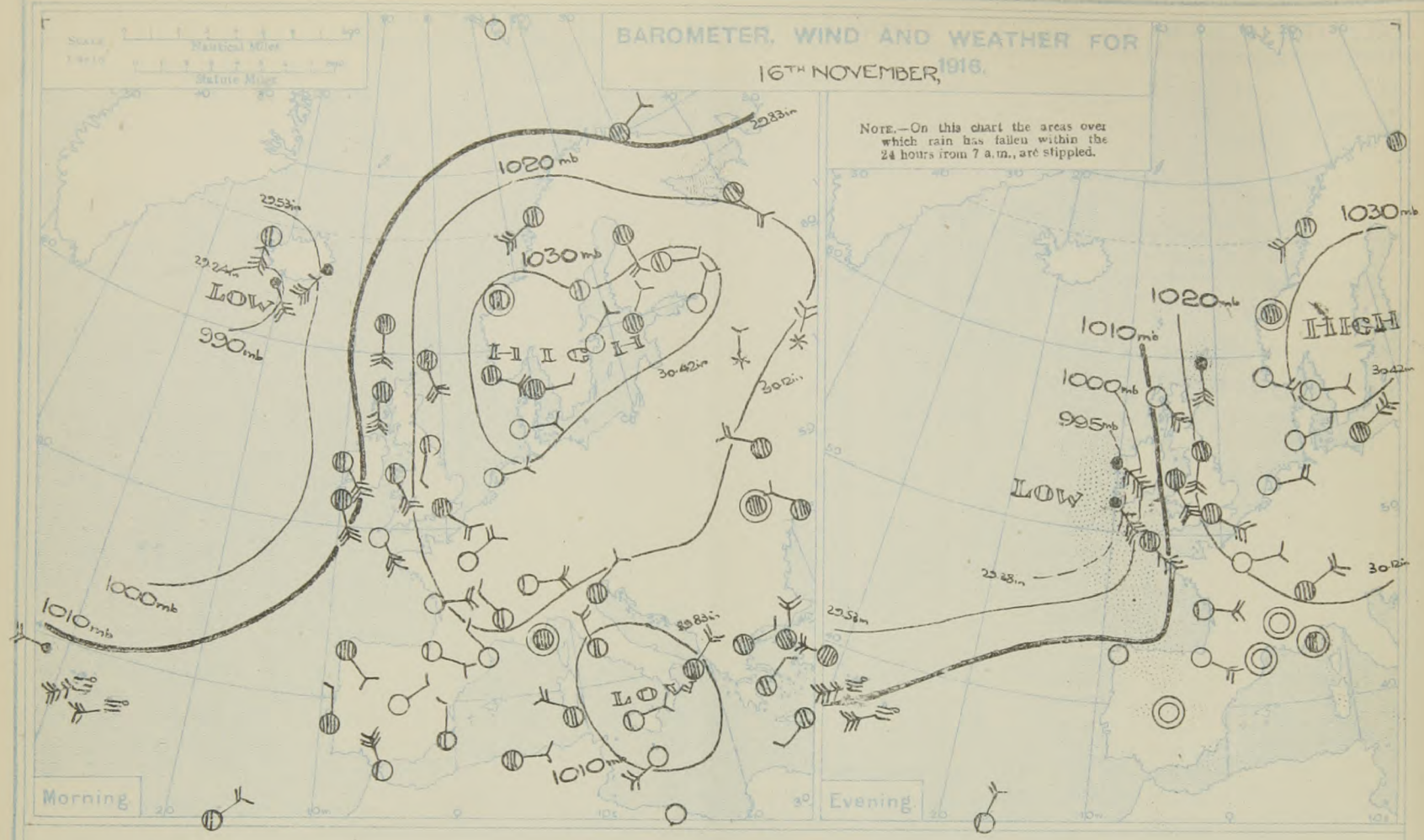
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
295	9.3	30.0.

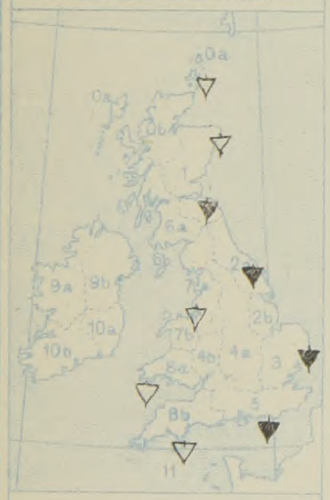
Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

South Cone hoisted yesterday at 7.55a.m in Dists. 0.1, 7 & 8, & to-day at 7.45a.m in Dists. 1(southern part) 2, 3 & 5

Western Channel and Bay 11

0 {a b} 1 — Wind mainly South-Easterly, fresh or strong, a gale at times; fair, then becoming unsettled; temperature low.

2 {a b} 3 — 4 {a b} 5

6 {a b} 7 — Wind strong to a gale from between South-East and East or North-East; less fine, some rain, sleet or snow later; cold.

Wind strong to a gale from between East and North; rainy; temperature low.

8 {a b}

9 {a b} — Same as Nos. 6 and 7.

10 {a b} — Same as No. 8.

11 — South-Easterly to South-Westerly winds, strong to a gale; sea high; rain at times.

FURTHER OUTLOOK.

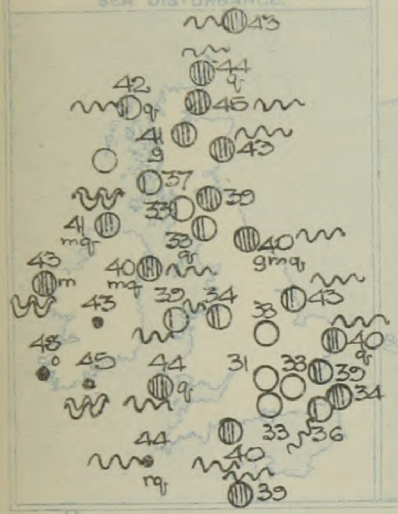
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 17TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression in the west is likely to move slowly eastward or south-eastward.

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 ≈≈≈

1015mb
1020mb
1025mb
40°
HIGH
30.27in
1010mb
1005mb
1000mb
995mb
990mb
985mb
Barometer
falling
generally.
29.09in
29.24in
29.38in
29.53in
29.68in
29.83in
29.97in
30.12in
1015in
HIGH

Scale 1:2·10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

Issue No. 20084

DAILY WEATHER REPORT.

Friday, 17th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F.	°F.
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1026·0	21	SW	4	b	1019·9	-3	25	+2	S	3	0	–	*	19
	Gorki	1012·6	16	NE	6	c	?	0	18	-9	?	2	8	–	*	?
	Velieki Luki ...	1021·7	19	N	3	8	1022·0	*	21	-4	NNE	2	8	–	*	?
	Hangö	·	·	·	·	·	1032·2	0	25	+6	NNE	2	0	–	*	19
	Riga	1027·9	23	NE	3	b	1027·3	0	18	-10	NE	3	b	–	*	18
	Petrograd ...	1032·5	21	E	3	b	1031·7	-1	21	0	NE	2	b	–	23	19
	Moscow	1018·7	16	ENE	4	0	1019·0	0	18	-3	NE	4	8	2	*	16
	Kiev	1012·8	30	NW	9	0	1017·5	+3	39	+5	NW	3	0	–	*	25
	Kharkov ...	1009·9	37	SW	2	0	1018·1	+4	32	-5	W	2	0	–	*	32
	Kishinev ...	1015·1	34	NNW	2	0	1018·9	+2	32	-4	–	0	0	–	*	30
	Elisabetgrad ...	1012·8	34	NW	3	0	1018·0	+4	30	-6	NW	3	0	–	*	30
	Nicolaiev ...	1013·1	37	NNW	4	0	1019·3	*	36	-1	NW	2	0	–	*	34
	Odessa	1015·3	37	NNE	4	0	1019·9	+3	36	-3	NW	2	0	–	*	34
	Tarkhankout...	1012·4	43	N	7	0	1019·3	*	41	-4	N	2	0	5	8	41
	Soukhoum ...														*	
Mediterranean.	Venice	1017·3	55	E	2	r	1017·0	*	41	-9	NE	2	0	Trace	52	41
	Pesaro	1015·7	48	ENE	6	b	1014·8	*	46	-4	NE	6	bc	–	52	45
	Rome	1009·2	48	N	1	b	1009·2	*	45	-3	N	3	bc	–	57	45
	Viesti	1010·6	52	NW	3	b	1009·5	*	48	-6	W	1	0	2	61	46
	Brindisi	1010·0	54	NW	1	0	1007·7	*	57	0	NE	1	0	1	61	54
	Cagliari	1006·6	63	NW	4	b	1010·8	*	59	+2	NW	3	c	–	70	45
	Palermo	1008·4	61	–	0	0	1004·6	*	61	+2	E	3	b	–	70	55
	Tripoli	1014·2	50	-	0	b	1014·6	*	59	+4	SW	2	b	–	70	50
	Algiers	1011·7	63	WSW	3	b	1014·6	+3	59	-4	E	2	c	–	72	57
Sweden.	Hernösand ...	1034·1	23	–	0	b	1030·0	*	25	+4	–	0	bc	*	*	*
	Stockholm ...	1034·4	27	NE	2	b	1032·7	*	21	-7	NNE	2	b	*	*	*
	Wisby	1031·7	32	NE	4	c	1030·4	*	34	+2	NNE	2	0	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Morning Temp. Dry Bulb.	Morning Temp. Change in 24 hours.	Morning Wind. Direc.	Morning Wind. Force 0–12.	Morning Weather.
		°F	F			
Isafjord ...	994·9	50	+1	S	8	bc
Reykjavik	989·6	46	+1	E	5	r
Vestmanna	991·0	46	+3	SE	6	r
Seydisfjord	1002·6	50	-1	SW	8	r
Thorshavn	1014·1	46	-3	S	5	o

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	–	–	42	40	c.bc	b	2·8
	Banff	–	–	45	37	b.bc	bc c	5·1
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	–	Trace	38	28	o.c	o.c	0·0
	Skegness	–	–	39	?30	ouc	ouc	0·0
Eng., N.W.	Morecambe	–	–	42	37	–	–	0·0
	Southport	–	–	40	34	b.bc.o	o	0·3
Midlands.	Leamington Spa							
	Malvern	–	–	38	34	c	c	0·0
	Ross-on-Wye	–	–	38	33	o	c	0·0
Wales.	Rhyl	–	–	41	35	c	bc.c	3·8
	Colwyn Bay...	*	*	42	35	bc	bc	7·0
	Llandudno	*	*	49	35	b.bc	b	4·8
	Aberystwyth	*	*	44	37	o.c	bc.o	5·5
	Tenby	–	–	50	43	o	o	0·0

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	–	–	43	39	c.o.c	c.o.c	0·0
	Felixstowe	–	–	42	40	cv	cv.o	0·0
	Walton-on-Naze	–	–	41	40	bc.c	bc.c	0·0
	Southend-on-Sea	–	–	43	39	c	c	0·1
England, S.E.	Margate	–	–	40	38	o	o	0·0
	Ramsgate	–	–	41	37	o	o	0·0
	Hastings	–	–	41	36	o.bc	o	0·6
	Eastbourne	–	–	41	39	o.c	oq	0·1
	Seaford	*	*	44	37	o	c	0·2
	Brighton							
	Worthing	–	–	41	37	c	c	0·0
	Littlehampton	–	–	45	37	o	o	0·1
	Bognor	*	*					
	Bournemouth	–	–	44	38	o	o	0·0
England, S.W.	Weymouth...	*	*	45	41	c	c	0·4
	Torquay	–	–	48	43	c	c	1·7
	Paignton	*	*					
	Penzance	–	–	49	47	c bc	bc	3·0
	Newquay	–	–	47	42	bcq	bcq	1·6
	Bude	–	–	51	40	bc	bc	1·5
	Ilfracombe	–	–	46	41	bc	bc	3·4
	Weston-s-Mare	–	1	49	33	o.c	o	0·0

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

17th & 18th Nov;... 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.19 7.20	11.38 11.38	3.57 3.56
Greenwich	7.23 7.24	11.45 11.45	4.7 4.6
Wick	8.7 8.9	11.57 11.57	3.49 3.45
Valencia	8.6 8.7	12.26 12.26	4.46 4.45

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in several parts of the Kingdom. Very heavy rain fell at Roche's Point and Valencia, and 16 mm. at Falmouth. Bright sunshine varied considerably; at some stations the record was high.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 323

	STATIONS.	YESTERDAY EVENING					THIS MORNING								PAST 24 HOURS						Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max	Temp. Min	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·1	43	SSE	6	oq	1006·3	-1	42	-1	SE	6	-	oq	5	-	44	40	oq	oq	oq	*
	Deerness (Orkney)	1006·4	44	ESE	6	c	1001·3	*	42	-2	E	6	-	o	5	-	46	40	ocq	cq	c.o	0·0
	Stornoway ..	997·1	44	ESE	8	bq.	997·1	0	41	-1	ESE	7	-	bcq	6	-	46	41	bc bq	bq	b.bcq	5·3.
	Castlebay (Barra Isd.)	997·2	43	ESE	7	bq	992·7	-3	45	-	E	5	E	oq	6	-	45	40	o.cq	c.bq	b.bcq oq	0·0.
	Glasgow ...	1002·7	38	ESE	4	cg	993·1	-4	36	+3	E	4	-	c	*	-	39	32	b	b.bc c	cq.oc	6·1
	Eskdalemuir ...	1003·6	36	SE	6	oq	992·4	-4	34	+1	ENE	5	-	oq	*	0·2	38	32	bcq bc	cq.oq	oq cq	3·0.
	Malin Head ...	990·0	38	SE	8	cmq	986·2	0	40	-1	SE	8	SE	cmq	8	-	42	36	cmq	cmq	cmq	0·0.
	Blacksod Point	981·4	39	E	7	cmg	982·6	-1	35	-8	E	6		cmc	6	6	43	35	cmr	cmr	cmcmc	*
	Valencia ...	983·1	46	WNW	2	c	977·8	-1	42	-6	ENE	3	-	cp	*	14	48	36	ordp	odpc	pc bbc	0·0.
	Roche's Point	984·0	45	WSW	3	r	978·8	*	39	-10	E	4	-	o	5	17	50	44	f.cm	cr	r.cm.	*
	Birr Castle ...	985·1	40	ESE	4	r	982·3	*	36	-7	ENE	3	-	o	*	7	43	36	crq	crq	cdq.a	0·0.
	Donaghadee ...	995·0	41	SSE	10	cmq	987·9	-3	42	+2	SSE	9	-	ogmq	7	-	42	38	cmq	cmq	cmq	*
	Liverpool (Bidston)	993·7	35	ENE	6	m	986·2	-6	35	+1	ENE	4	SE	o	5	-	38	34	bq	oq	cmo	4·6
	Holyhead ...	993·8	38	ESE	7	cmg	983·9	-6	36	-3	ESE	7	-	bcq	6	-	41	36	coqm	ocqm.	ombcq	0·0
	Pembroke (St. Ann's)	988·0	40	ESE	8	r	977·9	-5	36	-8	E	6	E	cq	6	2·4	45	31	orq	orq.	orqcq	0·0.
	Scilly (St. Mary's)																					
	Falmouth ...	987·0	45	WSW	2	b	971·7	-7	39	·5	NE	7	-	oq	*	30	48	39	rq dq	dq psq	bcqqp	0·0.
	Jersey (St. Aubin)	991·6	40	ESE	6	ogr	969·8	*	40		E	6	-	ogr	4	17	42	38	o rsgr	ogr	ogr	0·0
	Portland Bill ...	991·6	42	ESE	8	or	974·0	-10	35	-5	ENE	7	NE	o	5	17	45	33	c.	c.o r	or	*
	Dungeness ...	988·5	37	ESE	5	bc	979·0	-10	33	-3	E	8	E	c	7	-	40	33	c.bc	bc	bcqbc	*
	Dover	1000·7	35	SE	6	b	979·7	*-11	30	-4	E	6	-	S	6	-	36	32	b	b	bbc.cs	7·7
	Wick	1007·6	45	SE	8	o	1000·6	-5	44	-1	SE	6	-	o	6	1	45	40	oqg	oqg	omqg	*
	Nairn	1005·0	42	SE	4	ouq	998·0	*	38	-3	ESE	3	-	cg	2	-	44	37	bc.c.v.	cgq bc	bcq	4·8.
	Aberdeen	1008·5	43	SE	6	o	986·0	-6	41	-2	ESE	7	-	opq	5	1	44	38	oq	oq	ocq p h	0·0.
	Leith	1003·8	41	SE	3	o	993·9	-3	40	+1	SE	4	SE	c	4	1	42	37	ocbc.c	c.bco	ccopc	*
	Tynemouth ...	1008·3	42	SE	8	omq	992·0	?	40	0	ESE	6	E	cqh	6	1	42	39	oq	omq	cq h.	*
	Spurn Head ...	1002·7	43	SSE	8	c	987·1	-4	40	-3	ESE	9	-	cq h	7	0·3	48	35	coq	ocq	oq	0·0.
	Yarmouth ...	1004·6	40	SSE	7	c	985·4	-7	37	-3	E	8	-	cq	6	-	42	39	cq	cq.	cq	0·5.
	Clacton-on-Sea	1003·0	39	ESE	6	bc	982·7	-7	37	-2	ESE	6	SE	o	5	-	40	35	bc	bc	bc é o	5·5.
	Nottingham ...	1001·1	36	SE	5	c	985·0	*	35	+2	E	6	E	c	*	-	39	32	b bc	bc.c.	o.c	6·5.
	Benson (Oxon.) ...	996·6	33	E	6	oq	979·5	-7	34	+3	ENE	5	-	o	*	-	38	31	bq	cq	o	*
	Sth Farnborough	997·3	34	E	5	o	979·0	-10	32	-1	ENE	5	-	o	*	Trace	39	31	bc b	b o.	o s o	5·5.
	London (Kew Obsy.)	998·1	34	E	6	o	979·6	-3	35	+2	ENE	6	-	oq	*	-	38	33	bm b	bbeco	ac oq	6·4
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1012·7	37	W	1	o	1011·8	-1	34	0	NW	3	-	o	3	*	37	32				
	Bodö	1022·4	41	SW	3	o	1018·1	-1	39	-2	E	2	-	bc	2	-	39	34				
	Christiansund ...	1019·3	34	-	0	b	1011·0	-2	30	-4	-	0	-	b	3	-	36	30				
	Skudesnaes ...	1015·9	32	SE	3	b	1009·3	-4	34	-2	ESE	4	-	b	2	-	37	30				
	Færder (X'tiania Fjord)	1020·3	30	E	3	o	1014·4	-3	34	+4	E	2	-	o	1	-	34	30				
	The Scaw (Skagen)	1018·9	32	ENE	2	bc	1012·4	-4	34	-2	E	3	E	c	3	-	37	32				
	Blaavands Huk	1014·7	30	E	1	o	1005·6	-3	28	+3	E	3	-	o	5	-	34	21				
	Copenhagen ...	1015·8	36	ENE	4	o	1010·0	-4	34	+2	SE	6	-	o	*	-	37	32				
	Bornholm ...	1015·7	34	ESE	6	o	1011·7	-1	32	-4	SE	4	-	m	1	-	37	27				
FRANCE, &c.	The Helder ...	1009·2	36	E	3	b	999·5	-8	30	-4	E	7	-	o	4	-	39	30				
	C. Gris Nez ...	1001·6	32	E	3	bc	979·9	-8	28	0	E	5	*	o	2	-	36	29				
	La Hève	*	30	SE	6	o	*	*	30	+2	ESE	5	*	m-	3	-	36	28				
	Brest (St. Mathieu)	989·0	50	W	3	bc	966·7	-13	41	-2	ENE	5	*	r	5	25	54	41				
	Rochefort (Ile d'Aix)	992·3	54	SSW	6	r	970·3	-7	54	+15	WSW	7	*	r	*	33	54	39				
	Biarritz	982·0	48	SSW	6	r	973·0	-11	50	-7	SSW	6	*	r	5	9	59	46				
	Paris	998·7	36	ESE	3	o	976·2	-11	36	+9	E	3	-	r	*	2	37	25.				
	Belfort	1006·9	27	ENE	6	o	987·5	*	28	+5	ENE	7	*	r	*	2	32	23.				
	Lyons	1003·4	32	-	0	r	983·1	*	48	+17	SSW	6	*	r	*	15	48	21.				
	Nice	1007·0	41	-	0	o	995·4	-4	41	+4	E	1	*	r	5	15	45	37				
	Perpignan ...	1002·1	45	-	0	o	984·4	-10	45	+4	NW	1	-	c	*	-	50	41.				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1001·3	*	WSW	9	r							*									
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1017·1	-1	63	+4	-	0	-	b	3	4	73	59				
	Alexandria ...	1020·2	66	NE	1	b	1019·4	0	64	-4	-	0	-	c	0	-	75	63.				
	Cairo (Helwan) ...	1018·3	68	NE	4	b	1017·7	0	64	-4	NNE	3	-	c	*	-	79	61.				

Gales

Stornoway: 17h. Squalls. ESE. 8.

Castlebay: 17h. S.E. 8. 13h - 15h.

Malin: 17h. - 18h. SE. 8 7h - 7h.

Blacksod: 17h. SE 8. 7h - 9h.

Roche's Point: 17h. SE. 9 @ 7h.

Orlock Hill: 17h - 18h. SSE 8. 7h - 7h. SSE. 10. 18h.

Holyhead: 17h - 18h. ESE. 8. 13h - 1h. ESE. 9 @ 1h.

St Ann's Head: 17h. ESE. 9. 7h - 18h. ESE. 8 18h - 22h.

Portland Bill: 17h - 18h. SE-E. 8. 7h - 1h.

Dungeness: 18h. E 8 4h - 7h.

Wick: 17h. S.S.E. 8. 7h - midnight

Aberdeen: 17h. Gusts force 8 at times. ESE. 32 m/s @ 6h. 18h.

Tynemouth: 17h. S.E. 8 at 18h.

Spurn Head: 17h - 18h. S.S.E. 8 8h - 7h.

Yarmouth: 18h. E. 8 @ 7h.

Kew: 17h. Gust. 18 m/s @ 11h.

Notes

Aberdeen: 17h - 18h. Aurora was observed during the night of 17h - 18h of November.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F	°F.	mm.			
GREENWICH (Royal Observatory)	68	76	6·7	38	30	26	-	b.	bc.b.	0. 0s.
CITY (Bunhill Row)	*	*	5·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)			6·2							
CAMDEN SQ. (British Rainfall) ..	65	81	5·1	39	33	28	Trace	b	b.c.	*
HAMPSTEAD (Reservoir)	*	89	5·4	36	30	20	-	bc	bc	0 K 0 K S.
S. KENSINGTON (Museum Grounds)	*	74.	6·1.	39	34	33	-	b bq	bcq bc	o. os.
RICHMOND PARK	*	*	-	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
448	113	27.

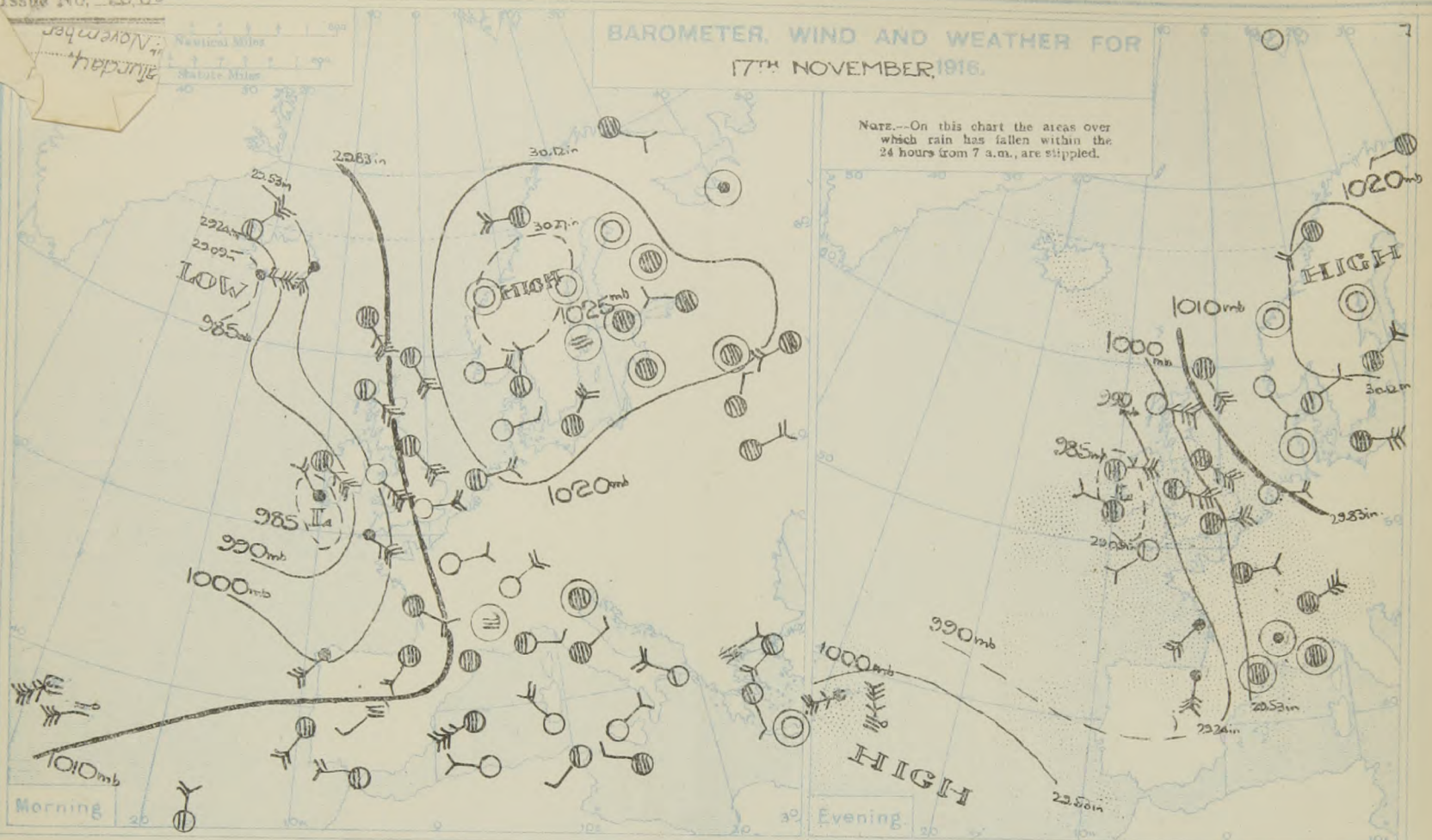
Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

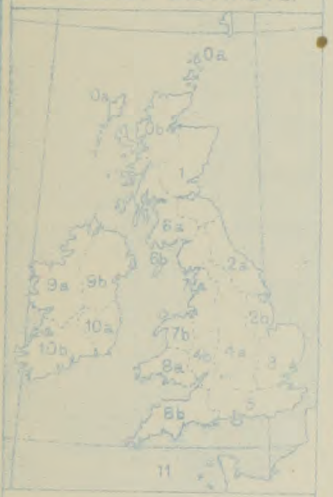
Issue No. 2005

Sunday 19 November

BAROMETER, WIND AND WEATHER FOR 17TH NOVEMBER, 1916.



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.

0a, 0b, 1	Wind between South-East and North-East, fresh or strong, a gale in places; much cloud, some rain, sleet or snow locally; temperature low.
2a, 2b, 3, 4a, 4b, 5	Easterly and North-Easterly winds, strong to a gales, moderating later; dull, some rain, sleet or snow; temperature low.
6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b	Wind Easterly to North-Easterly or Northerly, fresh or strong generally; variable sky, some rain, hail or sleet locally; temperature low.
Western Channel and Bay 11	North-Easterly to Northerly winds, strong or high, then moderating; sea rough; some rain.

FURTHER OUTLOOK.

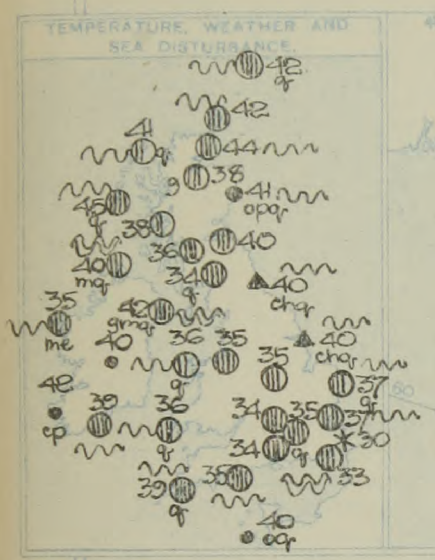
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 18TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression over Brittany will probably move in an easterly direction towards central Europe.



EXPLANATION.

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

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

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

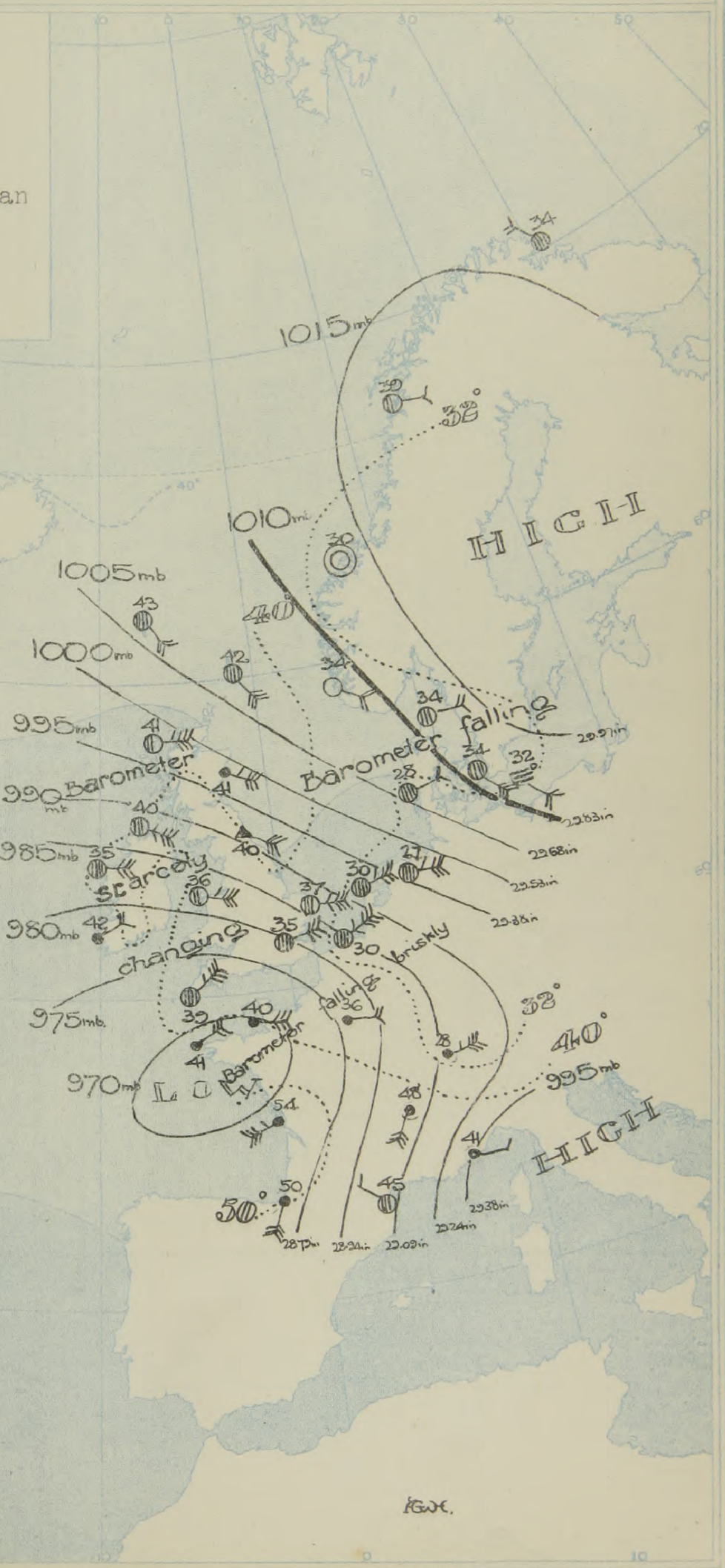
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale 1:28·10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.



KGW.

Issue No. 20,085

DAILY WEATHER REPORT.

Saturday, 18th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA. 7 a.m. and 9 p.m. Local Time.	Archangel ...						1011·4	+1	34	+9	–	0	r	–	*	25
	Gorki	1018·0	21	NE	3	0	1018·6	0	21	+3	NE	1	b	–	*	16
	Velieki Luki ...	1022·6		–	0	0	1022·6	*	19	-2	–	0	0	4	*	19
	Hangö	–	–	–	–	–	1022·6	-3	28	+3	–	0	0	–	*	16
	Riga	1021·3	21	–	0	b	1023·7	+1	25	+7	–	0	0	–	*	21
	Petrograd ...	1021·8	23	SW	2	b	1020·8	-2	25	+4	WNW	2	0	–	27	18
	Moscow	1020·8	16	NNE	2	0	1019·4	-2	18	0	W	3	0	20	*	16
	Kiev	1022·4	27	W	2	0	1020·0	-3	27	-12	E	3	0	–	*	23
	Kharkov ...	1022·7	30	W	2	0	1022·1	0	28	-4	NW	1	0	–	*	16
	Kishinev ...														*	
	Elisabetgrad ...	1023·3	32	–	0	0									*	
	Nicolaiev ...							*							*	
	Odessa	1022·3	37	ESE	3	0									*	
	Tarkhankout...	1022·3	36	NE	4	bc		*							*	
	Soukhoum ...	1018·7	59	ENE	1	0	1016·6	-1	59		ENE	3	bd	3	*	55
MEDITERRANEAN.	Venice	1016·7	41	–	0	c	1016·1	*	34	-7	–	0	0	–	44	34
	Pesaro	1015·9	45	NE	4	b	1016·3	*	37	-9	SW	1	0	–	48	34
	Rome	1014·7	41	N	3	b	1016·1	*	37	-8	NE	1	0	–	54	36
	Viesti	1011·7	45	N	2	0	1017·5	*	45	-3	NNW	2	0	4	50	43
	Brindisi	1012·3	48	NE	4	0	1015·6	*	45	-12	NW	4	b	16	55	45
	Cagliari	1014·8	51	NW	3	b	1016·2	*	54	-8	NNW	3	b	–	68	41
	Palermo	1014·0	55	–	0	0	1017·7	*	52	-9	ENE	2	b	1	63	43
	Tripoli	1015·7	59	–	0	b	1017·4	*	57	-2	–	0	b	–	78	48
	Algiers	1016·3	59	E	2	b	1014·9	+1	61	+2	W	2	b	2	68	54
SWEDEN.	Hernösand ...	1026·1	30	–	0	b	1025·0	*	25	0	–	0	b	*	*	*
	Stockholm ...	1028·2	27	WSW	2	0	1022·4	*	28	+7	–	0	f	*	*	*
	Wisby	1026·7	34	NE	2	b	1021·6	*	34	0	ESE	2	c	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	990·9	50	0	WNW	6	bc
Reykjavik	984·6	46	0	SE	7	r
Vestmanna	985·7	45	-1	E	9	r
Seydisfjord	1003·4	43	-7	SW	6	r
Thorshavn	1008·0	45	-1	SSE	8	0

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h.-9h.	Rainfall. Day. 9h.-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	–	–	41	35	b	b	5·8
	Banff	–	–	43	42	oq. c	c	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	–	–	44	37	oq	oq	0.0
Eng. N.E.	Harrogate	–	–	37	33	c. bc	bc c o	1·8
	Skegness	–	–	41	36	o. c	c	4.3
Eng. N.W.	Morecambe	–	–	39	34	–	–	2. 9
	Southport							
Midlands.	Leamington Spa							
	Malvern	–	–	37	32	c	c	1. 0
	Ross-on-Wye	–	–	39	33	bc	bc c	2·7
Wales.	Rhyl	–	–	38	32	c. bc	c bcc	2·2
	Colwyn Bay...	*	*	37	33	bc	bc	1. 2
	Llandudno	*	*	45	33	bc c	c	1·7
	Aberystwyth	*	*	40	30	o. c	c. o	0,3
	Tenby	3	6	49	40	r	r	0 0
England. E.	Lowestoft	–	–	42	38	o. c	c	2.0
	Felixstowe	–	–	40	38	bcqr	bcq	6·5
	Walton-on-Naze	–	–	39	36	bc	bc	4·5
	Southend-on-Sea	–	–	39	34	b	b	7.5
England, S.E.	Margate	–	–	38	34	b	b	6·8
	Ramsgate	–	–	37	34	b	b	7.6
	Hastings	–	–	40	35	b	b.bc.o	6·3
	Eastbourne	–	–	41	38	bq	b.bc. oq	5.4
	Seaford	*	*	40	30	b	b	5·6
	Brighton	–	–	41	38	c	c.o	2·9
	Worthing	–	–	41	38	bc	bc	4·5
	Littlehampton	–	–	42	32	o. bc	o	1. 9
	Bognor	*	*	43	39	bc	bc.o	2·7
	Bournemouth	–	–	42	39	o	o	0.7
England, S.W.	Weymouth...	*	*	43	41	bc o	or	0. 0
	Torquay	–	23	43	40	or	or	0. 0
	Paignton	*	*					
	Penzance							
	Newquay	12	26	46	41	orq	orq	0 0
	Bude	–	10	47	38	r	r	0. 0
	Ilfracombe	–	5	43	39	c r	r	0 0
	Weston-s-Mare	–	Trace	46	33	bcqr.c	c or	0 1

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

18th Nov. 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.20 / 7.22	11.58 / 11.58	3.56 / 3.55
Greenwich	7.24 / 7.26	11.45 / 11.45	4.6 / 4.5
Wick	8.9 / 8.12	11.57 / 11.57	3.45 / 3.43
Valencia	8.7 / 8.9	12.26 / 12.26	4.45 / 4.44

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many parts of the United Kingdom. Heavy rain fell in the south-west, 30 mm. at Falmouth. Considerable amounts of bright sunshine were recorded in the east and south-east, and also at Glasgow.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 324. Sunday 19th November

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	1000.9	41	SE	6	cq	998.9	0	42	0	SE	7	—	cq	6	0.2	42	40	cq	cq	cq	*
	Deerness (Orkney)	995.6	41	ESE	6	obpq	993.5	*	42	0	ESE	6	—	cpq	6	4	43	40	o.cp	cp.cq	o.cpq	0.1
	Stornoway ...	991.3	42	E	7	cq	988.8	0	44	+ 3	ESE	7	—	cq	6	1	44	39	bc cq	cphq	w.cq	1.7
	Castlebay (Barra Isd.)	987.4	43	ENE	4	o	985.0	0	44	− 1	NE	4	—	r	4	8	45	40	oh.bc.o	ohb.o	obr	1.1
	Glasgow ...	984.4	38	E	4	og	981.5	+ 1	40	+ 4	ENE	5	—	og	*	2	40	33	csp	osp	op.ogp	0.1
	Eskdalemuir ...	983.0	34	ENE	4	os	979.8	+ 2	36	+ 2	NE	5	—	od	*	7	37	31	cq.psq	osq	ors.oq	0.5
	Malin Head ...	982.0	35	E	8	cqphl	978.3	− 2	42	+ 2	NE	6	—	oqrs	7	6	42	34	bcq	bcqph	omq3	1.5
	Blacksod Point	981.5	35	E	3	bc	980.4	+ 1	39	+ 4	NNE	4	—	omd	3	c 2	39	33	cz	bc	bc.bcm	*
	Valencia ...	979.8	34	ENE	2	b	980.9	+ 1	33	− 9	—	0	—	bcx	4	2	42	31	o.oz	ocz bc	b.bx	0 0
	Roche's Point	978.9	35	N	2	b	978.7	*	36	− 3	NW	4	—	o	3	0.3	42	34	osp	o bc b	b.o	*
	Birr Castle ...	979.7	33	NE	1	c	977.8	*	36	0	NW	2	—	r	*	3	42	31	o.c	c	c.oor	0.2
	Donaghadee ...	980.6	38	E	6	omqps	977.4	0	41	− 1	E	5	—	ogmqp	5	3	42	36	cmq	omqps	omr.oq	*
	Liverpool (Bidston)	975.8	36	NE	3	o	973.7	0	37	+ 2	NE	3	N	r	3	5	38	33	os	o	or	0.2
	Holyhead ...	976.4	40	E	5	om	973.5	0	40	+ 4	E	6	—	orm	5	4	41	36	bcqs	cqmps	dp.odm	1.5
	Pembroke (St. Ann's)	975.4	36	N	4	c	972.9	+ 1	40	+ 4	NNW	1	N	c	2	1	42	34	cq	bc.c	c.o.cr	0.3
	Scilly (St. Mary's)																					
	Falmouth ...	972.9	36	N	3	o	974.3	0	42	+ 3	WNW	5	—	o	*	—	42	34	oq	c	o	0.0
	Jersey (St. Aubin)	964.9	43	NNW	4	oq	973.8	*	46	+ 6	W	5	—	cq	4	9	46	38	oqr	oqr.oq	oqp.oq	0.0
	Portland Bill ...	967.7	32	NNE	5	or	970.5	+ 2	42	+ 7	WNW	5	NW	c	4	4	42	32	or	or	or.c	*
	Dungeness ...	964.1	42	ENE	5	r	967.0	+ 3	38	+ 5	WSW	5	—	r	5	14	47	34	cqs	op	r.c.oqr	*
	Dover	965.6	41	SE	4	r	967.3	+ 1	37	+ 7	SW	5	—	r	6	18	44	37	obr	obr	orm	0.0
	Wick	994.9	40	ESE	7	r	992.1	0	44	0	ESE	8	—	r	7	4	44	37	q.omph	ompqh	ogqp	*
	Nairn	990.1	39	E	4	oupq	988.0	*	40	+ 2	E	3	—	ou	3	1	41	37	bc oqu	qpo	qp.o	1.6
	Aberdeen	990.4	43	E	8	oq	988.0	0	44	+ 3	E	8	—	oqp	7	3	45	38	ohpq	ohpq	oqp	0.1
	Leith	985.0	41	E	6	o	981.8	0	41	+ 1	E	7	—	r	7	6	43	37	c oh.op	oq.op.o	oqr.or	*
	Tynemouth ...	981.2	42	ESE	8	omqr	979.4	?	41	+ 1	E	8	—	omqr	8	21	42	37	cqmph	cmqps	omqr	*
	Spurn Head ...	979.9	40	ESE	8	oqr	979.1	0	39	− 1	ESE	8	—	oqr	8	13	40	35	oqr	oqr	oqr	0.0
	Yarmouth ...	970.5	38	ESE	7	r	969.9	0	42	+ 5	ESE	8	—	omqp	7	14	41	36	cq	cq.omr	omqp	0.0
	Clacton-on-Sea	967.3	41	E	6	r	967.4	0	44	+ 7	E	6	—	r	5	14	45	35	oq.osr	cqr	oqr	0.0
	Nottingham ...	973.2	34	NE	3	s	971.7	*	39	+ 4	NE	3	NE	r	*	23	39	33	o.os	s	s	0.2
	Benson (Oxon) ...	968.3	33	N	4	s	968.2	+ 1	35	+ 1	W	1	—	r	*	16	35	32	o os	o shr	sr.r	*
	Sth Farnborough	966.7	34	N	4	o	967.9	+ 2	34	+ 2	WSW	4	—	or	*	19	35	32	orsm	osm	ors.or	0.0
	London (Kew Obsy.)	966.9	35	NNE	4	om	967.5	+ 3	38	+ 3	SW	2	—	orm	*	16	39	35	oq.omrs	omrs.oqr.om.orm.or		0.0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1010.1	37	NW	1	o	1003.8	− 1	39	+ 5	NW	1	—	o	3	*	39	34				
	Bodö	1016.0	36	N	4	s	1015.0	0	34	− 5	ESE	1	—	b	1	—	39	32				
	Christiansund ...	1005.5	34	—	0	b	1006.1	+ 1	37	+ 7	—	0	—	b	3	—	37	30				
	Skudesnaes ...	1002.3	36	ESE	3	b	999.9	− 1	41	+ 7	E	6	NE	b	2	—	41	32				
	Færder (Tjømø Fjord)	1009.6	32	NE	6	r	1008.7	+ 1	36	+ 2	NE	6	—	o	3	Trace	36	32				
	The Scaw (Skagen)	1006.9	32	E	4	o	1003.4	+ 1	39	+ 5	E	7	—	o	7	—	39	30				
	Blaavands Huk	995.5	34	ESE	8	o	991.0	− 1	36	+ 8	ESE	9	—	o	6	—	36	28				
	Copenhagen ...	1002.0	37	ESE	6	o	997.7	− 1	37	+ 3	ESE	9	—	b	*	—	37	34				
	Bornholm ...	1002.1	36	ESE	9	o	996.8	− 3	36	+ 4	ESE	10	—	bc	3	—	36	32				
FRANCE, &c.	The Helder ...	977.2	32	E	8	r	976.8	+ 1	30	0	E	8	—	c	5	?	36	30				
	C. Gris Nez ...	963.0	36	E	5	o	966.7	+ 4	43	+ 15	WSW	6	*	r	6	13	43	28				
	La Hève	*	36	ENE	4	o	*	*	?	.	WSW	5	*	o	5	15	37	?				
	Brest (St. Mathieu)	973.5	43	NW	6	o	977.2	+ 1	46	+ 5	WNW	5	*	c	5	1	52	39				
	Rochefort (Ile d'Aix)	969.3	50	WSW	8	r	980.3	+ 2	46	− 8	E	1	*	o	*	17	59	46				
	Biarritz	982.1	55	WSW	9	r	985.6	+ 1	53	+ 3	SSW	5	*	b	7	4	68	50				
	Paris	963.8	50	SE	4	r	977.2	+ 5	39	+ 3	E	3	—	b	*	8	54	36				
	Belfort	978.9	34	ENE	4	r	983.1	*	39	+ 9	WSW	4	*	o	*	13	39	39				
	Lyons	975.4	48	—	0	0	985.0	*	46	− 2	SW	2	*	o	*	4	55	43				
	Nice	981.2	43	E	2	b	988.0	+ 6	46	+ 5	—	0	*	b	5	30	45	41				
	Perpignan ...	978.7	61	W	2	o	989.0	+ 2	39	− 6	SW	1	—	b	*	Trace	70	39				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	993.5	54	WSW	5	bc	998.0	+ 1	45	-	WSW	3	SW	r	*	3	57	43				
	Lisbon	1004.4	57	WSW	4	bc	1001.6	− 1	54	− 7	W	5	—	b	8	4	64	52				
	Azores (Horta) ...	1020.3	*	NW	6	b	1024.7	+ 1	56	+ 1	NNE	3	*	c	2	-	63	55				
	Madeira	1015.1	72	N	4	bc	1017.6	+ 2	63	− 7	N	4	—	bc	4	-	73	63				
	Gibraltar	-	-	-	-	-	-	*	-	-	-	-	*	-	-	-	-	-				
	Malta	*	*	*	*	*	1005.3	0	68	+ 4	SSW	4	—	bc	1	-	73	64				
	Limassol	*	*	*	*	*	1017.9	+ 2	66	+ 3	—	0	-	b	2	-	73	52				
	Alexandria ...	1017.5	66	—	0	b	1019.8	+ 1	66	+ 2	—	0	—	b	0	-	77	63				
	Cairo (Helwan) ...	1016.7	64	NNE	4	b	1018.7	+ 3	63	− 1	NNE	3	—	b	*	-	73	55				

Gales:

Stornoway: Squalls ESE 8 at 7h on 18th and 19th

Eskdalemuir: 18th 12h. Squall E 27 m/s.

Malin Head: 18th 7h. – 19th 4h. SE.-E. 8.

Donaghadee: 18th 7h. – 9h. SSE 9.

Dungeness: 18th 7h. – 16h. E. 8.

Wick: 19th 4h. – 7h. ESE. 8.

Nairn: Susrs E 8 during last night.

Aberdeen: 18th 10h. – 19th 7h. SE – E 8. Exr. ESE 9 at 12h. Gust 30 m/s.

Tynemouth: 18th 13h. – 19th 7h. ESE – E 8. 21h. ESE 9.

Spurn Head: 18th 7h. – 19th 7h. ESE. 8. 7h & 21h (18th) & 1h (19th) ESE 9.

Yarmouth: 18th 7h. – 19th 7h. E – ESE 8. 19th 1h. ESE. 9.

Valencia

Lunar halo observed at 3h. (19th)

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Temp.: Min.	Temp.: Min. on Grass.	Rainfall.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	96	97	0.0	44	33	32	19	os	or	ors.od
CITY (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	95	99	0.0	45	35	25	19	r	sr	osr.dm
CAMDEN SQ. (British Rainfall) ...	98	98	0.0	43	33	32	19	ors	ors. or	*
HAMPSTEAD (Reservoir)	*	98	0.0	42	32	23	17	os	ors	or. x
S. KENSINGTON (Museum Grounds)	*	87	0.0	44	35	35	20	oq. os	ors	orsm.dq
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

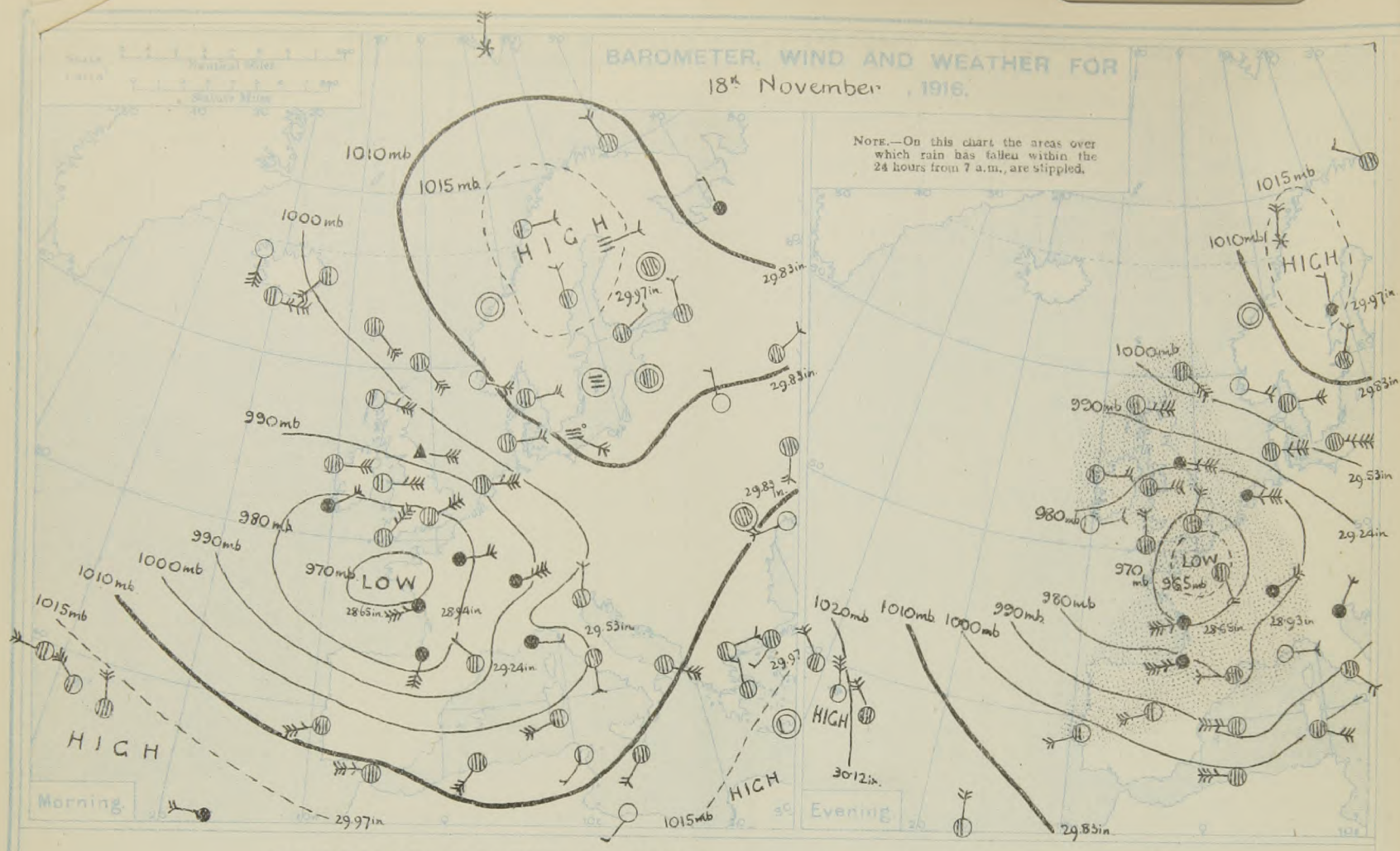
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
61	2.0	5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 November, 1916.



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.

0 (a, b), 1, 2 (a, b) — Easterly gales, moderating gradually; rainy, perhaps sleet locally; temperature rather low.

3 — Wind between East and South or South-West, decreasing in force; rainy; rather cold.

4 (a, b) — Wind between East and North, moderate; rainy; cold.

5 — Wind between West and South, moderate or fresh; rainy, then fairer; rather cold.

6 (a, b), 7 (a, b) — Same as Nos. 0 to 2.

8 (a, b), 9 (a, b) — Wind between North and North-West, moderate or fresh; rain at times; rather cold.

10 (a, b), 11 — North-Westerly and Northerly winds, fresh or strong; sea rough; showery.

Western Channel and Bay

FURTHER OUTLOOK.

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

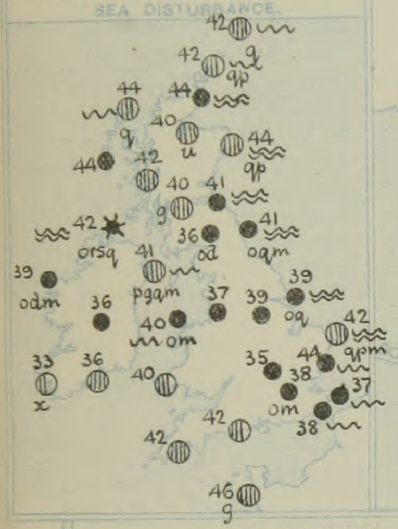
NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 19TH NOVEMBER, 1916.

GENERAL INFERENCE.

The indications as to the future movement of the depression are uncertain; it seems probable that it will move north or north-west.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

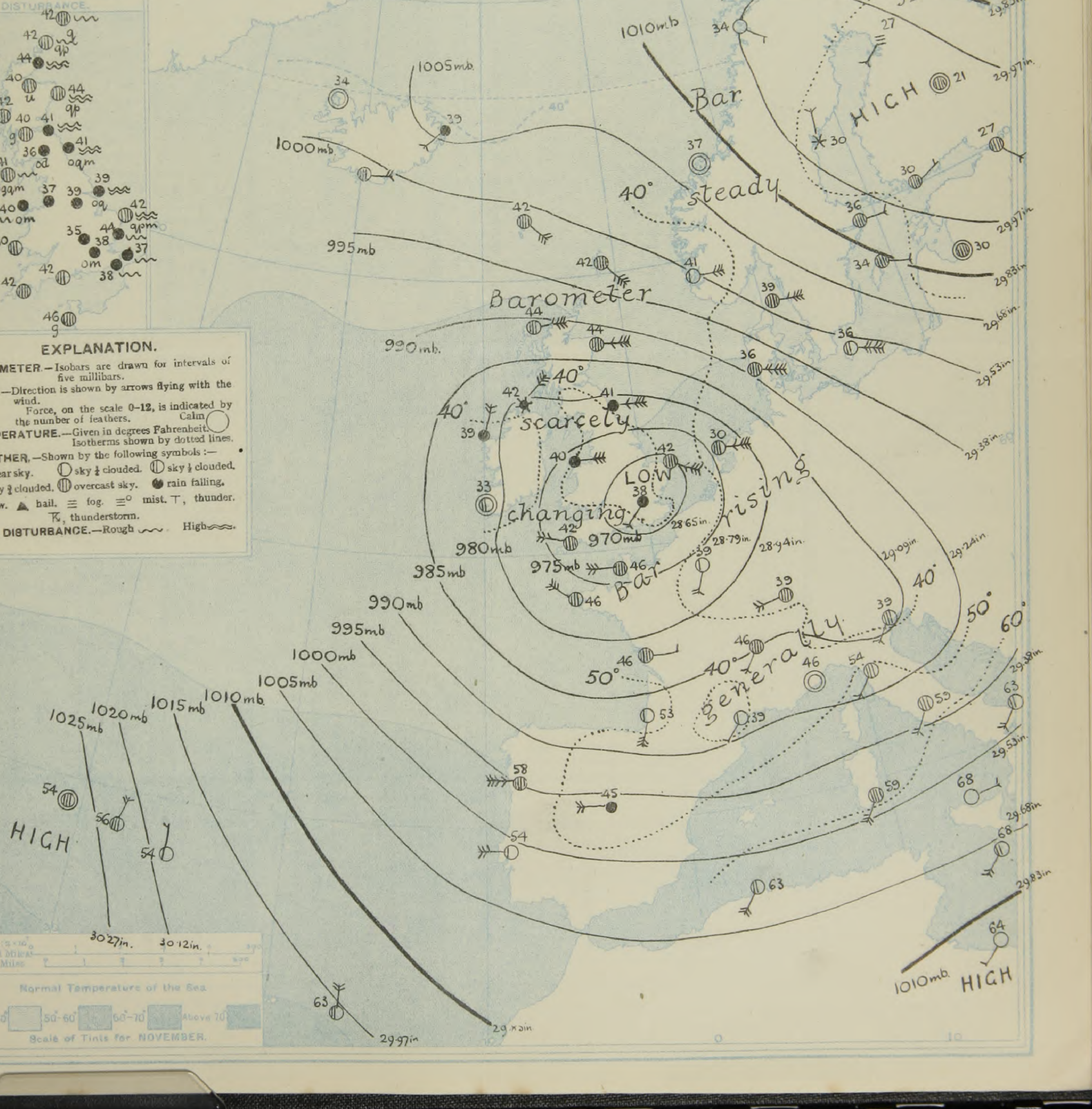
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



Scale 1:(2×10⁶)
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

Issue No. 20,086. **DAILY WEATHER REPORT.** Sunday, 19th November 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	-	-	-	-	-	1015·5	+1	59	-15	N	1	r	-	*	23
	Gorki	1013·3	21	ENE	1	o	1006·4	+6	10	-11	N	1	b	-	*	10
	Velieki Luki ...	1018·9	7	-	o	b	1011·0	*	19	0·	-	o	f	-	*	1
	Hangö	-	-	-	-	-	1013·6	-3	27	-1	ENE	1	o	-	*	23
	Riga	1019·8	21	-	o	bc	1013·3	-4	23	o	-	o	o	-	*	21
	Petrograd ...	1017·9	28	NW	2	o	1012·6	-3	27	+2	N	2	o	-	28	25
	Moscow	1015·3	10	NNE	1	b	1011·0	-4	16	-2	ENE	2	o	-	*	9
	Kiev	1009·1	25	N	4	s	1005·1	+3	23	-4	W	3	s	?	*	23
	Kharkov ...	1008·8	30	SE	3	r	1002·0	+2	41	+13	SSW	3	o	?	*	28
	Kishinev ...	1010·7	27	W	2	o	1009·7	+3	25	-	-	o	o	?	*	19
	Elisabetgrad ...	1000·2	34	NW	2	r	1006·4	+1	19	-	WSW	4	o	12	*	18
	Nicolaiev ...	1008·4	30	W	b	o	1010·6	*	25	-	WSW	2	b	8	*	25
	Odessa	1011·0	30	-	o	o	1011·1	+2	25	-	WNW	3	b	6	*	25
	Tarkhankout...	1011·9	45	W	7	o	1011·9	*	41	-	W	4	o	7	*	41
	Soukhoum ...	1011·9	61	ENE	2	bc	1012·3	o	54	-	ENE	1	o	2	*	54
MEDITERRANEAN.	Venice	1011·6	36	N	1	o	1001·4	*	36	+2	NNE	2	r	4	37	34
	Pesaro	1010·4	39	-	o	r	1000·4	*	36	-1	SW	2	r	32	45	36
	Rome	1004·6	52	S	1	o	1000·0	*	57	+20	S	2	o	21	57	52
	Viesti	1013·2	46	SE	1	o	1001·7	*	55	+10	SE	1	o	-	57	42
	Brindisi	1015·4	52	SSE	5	o	1006·6	*	59	+14	SE	6	o	-	55	46
	Cagliari	1010·8	61	SE	4	c	1002·9	*	57	+3	WSW	5	c	-	66	46
	Palermo	1014·2	55	-	o	b	1006·8	*	64	+12	ENE	3	o	-	64	46
	Tripoli	1016·6	59	-	o	b	1014·8	*	59	+2	SW	1	b	-	72	50
	Algiers	1012·4	59	SW	3	b	1006·2	-3	66	+5	SW	5	o	-	72	59
SWEDEN.	Hernösand ...	1021·6	23	-	o	b	1016·7	*	27	+2	·	2	c	*	*	*
	Stockholm ...	1020·4	30	NE	2	o	1013·9	*	32	+4	N	2	s	*	*	*
	Wisby	1019·5	32	E	2	b	1012·8	*	34	o	-	o	f	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	998·6	46	-4	S	6	b
Reykjavik	997·4	43	-3	E	4	c
Vestmanna	995·3	45	o	E	9	c
Seydisfjord	1005·2	45	+2	SW	4	c
Thorshavn	1006·3	43	-2	SE	5	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max	Temperature Min	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	-	1	41	36	bcs	o	1·2
	Banff	1	1	41	37	bcr.rhc	oprh	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	Trace	3	36	31	ocps	opsr	0·0
	Skegness	Trace	6	39	38	oc	our	0·0
Eng. N.W.	Morecambe							
	Southport	-	-	37	37	bchas	c.o	1·8
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	35	32	s	o	0·0
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	39	32	ac	c.o	0·3
	Tenby	Trace	-	43	34	cs	o	0·0

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	-	6.	40	35	oqp.	oqr	0·0
	Walton-on-Naze	Trace	1	40	34	osod	od.	0·0
	Southend-on-Sea	-	3	40	34	asd.r	or	0·0
England, S.E.	Margate	-	5	41	33	r	r	0·0
	Ramsgate	-	Trace	35	32	o	opr	0·0
	Hastings	Trace	7	39	32	as	as	0·0
	Eastbourne	Trace	6	40	35	ors	ors	0·0
	Seaford	*	*	37	32	os	s	0·0
	Brighton	-	3	35	32	s	sd.	0·0
	Worthing	-	3	35	32	s.	r	0·0
	Littlehampton	-	2	37	31	-	-	0·0
	Bognor	*	*	37	32	os	s. o.	0·0
	Bournemouth	13	5	35	31	os	or	0·0
England, S.W.	Weymouth...	*	*					
	Torquay	1	-	45	36	o	o	0·0
	Paignton	*	*	37	31	o	o	0·0
	Penzance	2	-	41	36	oc	c.o.	0·0
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.22	11.39	3.55
	7.24	11.38	3.64
Greenwich	7.26	11.45	4.5
	7.28	11.46	4.4
Wick	8.12	11.57	3.43
	8.14	11.58	3.42
Valencia	8.9	12.26	4.44
	8.11	12.27	4.43.

PILOT BALLOON ASCENTS for the PAST WEEK.
Component Velocities to East and to North in metres per Second.

STATION, Date and 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.
Heights in Kilometres														

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 325. Monday, 20th November

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp	Wind. Direc.	Wind. Force 0–12	Weather.	THIS MORNING: 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 ...	1000·2	43	S	7	0q	994·3	0	41	-1	SE	7	-	0q	6	3.	45	40	0q	0mq	0qp.	*
	Deerness (Orkney)	999·2	43	ESE	7	0pq	998·9	*	41	-1	E	6	-	r	6	6	44	39	c.0pq	0pq	0r	0·0.
	Stornoway ...	999·1	44	ESE	7	0q	999·4	-1	42	-2	ESE	6	-	cq	5	-	45	42	c.0q	c.0q	0.cq	00
	Castlebay (Barra Isd.)	998·0	44	NE	4	r	998·4	0	45	+1	ENE	4	-	0	4	5	45	42	r	r	r.0d.	0·0.
	Glasgow ...	998·3	34	E	6	0qr	998·6	0	38	-2	ENE	4	-	0g	*	2	41	37	0qr	0qp0r	0qdp	0·0.
	Eskdalemuir ...	998·8	36	NE	5	0q	998·5	0	39	+3	NE	4	-	0	*	3	39	35	0d.	0d.q	pq0r.0	0·0.
	Malin Head ...	998·6	43	NE	6	cmqp	998·6	+1	42	0	E	6	-	omrq	7	7	43	40	cmqp.	cmqp.	omrq	0·0.
	Blacksod Point	998·7	42	NNE	3	omr	998·3	0	43	+4	N	3	N	cg	3	6	45	38	cp	omr	omrq0	*
	Valencia ...	998·0	46	NW	6	bc	998·1	+1	46	+3	NW	5	-	bc	4	5	47	32	bc.0p.	0.cp bc.	bc	0·2.
	Roche's Point	997·2	44	NW	4	c	998·5	*	42	+6	NW	4	NW	c	4	1	45	36	c.	c.0p.	0p.cp.	*
	Birr Castle ...	998·6	37	NW	1	r	998·3	*	38	+2	NW	1	.	r	*	4	39	35	0d.	0d.	0d.r	
	Donaghadee ...	997·6	41	E	5	0rr gq	998·0	+1	43	+2	E	5	.	0gmq	5	3	43	39	0mrq	0gmqp	0gmq	*
	Liverpool (Bidston)	997·9	37	NE	2	r	997·8	+2	39	+2	ENE	1	-	0g	2	12	41	36	0r	0r	0	0·0.
	Holyhead ...	997·1	42	E	6	0pm	997·6	+1	42	+2	E	4	-	0me	4	6	45	40	0pm	0pm	0pme	0·0.
	Pembroke (St. Ann's)	997·0	41	N	2	0r	997·8	+3	43	+3	WNW	4	-	0p	3	10	44	38	0r.0p	0r	0r	0·0.
	Scilly (St. Mary's)																					
	Falmouth ...	997·9	41	NW	5	0rq	998·7	+4	48	+1	WNW	5	-	r	*	16	44	39	0.	0q.rq	r.0qpr	0·0.
	Jersey (St. Aubin)	998·1	45	W.	5	0qp	998·5	*	46	0	W	7	-	0qp	5	12	48	42	0gqpc.	0c0q.p	0gqp	0·8.
	Portland Bill ...	997·2	45	W	5	0r	998·2	45	47	+5	W	5	W	0w	5	3	47	41	0c	c.0r	0r	*
	Dungeness ...	997·9	44	SW	6	r	998·7	+2	47	+9	SSW	8	-	r	7	18	47	38	r.0c.	c.r	rq.r	*
	Dover	997·5	44	SW	6	r	998·9	+2	44	+7	SSW	9	-	0	6	15	46	37	0rbc	0pr	0p.rq	0·7
	Wick	999·3	45	ESE	8	0	999·3	-1	44	0	ESE	8	-	0	7	2	45	40	0mpq	0mgqp	0gqp	*
	Nairn	998·0	41	E	5	0	998·6	*	39	-1	E	3	-	0g	3	2	42	38	c0pq	0q.w	qp	0·0.
	Aberdeen	998·4	45	ESE	8	0	998·9	-2	42	-2	E	7	-	0pq	6	2	45	40	0pq	0.pq	0qph	0·0
	Leith	998·7	41	E	6	r	998·1	0	42	+1	E	5	-	r	5	8	43	40	r	r	r.0r	*
	Tynemouth ...	998·0	41	ESE	7	0mqr	998·4	?	45	+4	ESE	5	-	0mq	8	16	45	40	0mqr	0mqr	0mqr	*
	Spurn Head ...	999·1	39	E	6	cqp	999·9	0	40	+1	SSE	4	-	0r	7	4	40	37	r.0q	0.cqp	cq.f	0·0
	Yarmouth ...	997·2	43	SW	4	bc	998·7	0	45	+3	S	8	-	0mqr	7	7	47	42	0mq	q0mbc.	bcqp	0·0
	Clacton-on-Sea	997·3	43	S	4	c	998·0	+1	45	+1	S	5	S	r	4	10	45	38	0gd.	0gdc	cdgr	0·0.
	Nottingham ...	997·1	41	ENE	3	d	997·2	*	33	-6	E	2	E	s	*	10	43	33	r	r.0	d.0.	0·0
	Benson (Oxon.) ...	997·5	36	WSW	3	r	997·3	+3	38	+3	SSW	3	-	r	*	18	38	34	0mr	0r	0r	*
	Sth Farnborough	997·3	36	SW	4	r	997·5	+3	40	+6	SW	3	-	0r	*	10	40	34	r.0	r.0	r0r	0·0
	London (Kew Obsy.)	997·8	37	SW	3	0d.	998·2	+2	40	+2	SSW	2	-	0	*	14	40	37	0mr.rd	0mr.sh.d	0d.r0	0·0.
NORTHERN EUROPE.	Spitsbergen ...												*		*							
	Vardö	1004·4	37	NW	3	0	1008·0	+8	34	-2	NW	3	-	r	3	*	37	32				
	Bodö	1014·6	34	E	2	b	1013·7	0	32	-2	E	1	-	b	1	-	34	30.				
	Christiansund ...	1008·3	37	-	0	b	1007·4	0	37	0	-	0	-	b	3	-	41	32				
	Skudesnaes ...	1001·7	41	E	7	b	1001·0	0	34	+4	E	8	-	c	4	-	43	34.				
	Færder (Xtiania Fjord)	1008·6	34	ENE	6	0	1008·6	+1	34	+1	N	5	W	s	3	-	37	36.				
	The Scaw (Skagen)	1004·6	29	E	7	0	1005·2	+1	36	-3	E	7	-	r	7	2	41	30				
	Blaavands Huk	992·2	37	ESE	8	0	996·8	+1	30	-6	ESE	3	-	0	4	-	39	28.				
	Copenhagen ...	997·0	39	ESE	8	0	1002·3	+4	34	-3	SE	5	-	0	*	3	39	32				
	Bornholm ...	995·9	37	ESE	9	r	1003·4	+5	30	-6	SSE	4	-	s	1	6	37	28				
FRANCE, &c.	The Helder ...	998·7	32	ESE	3	0.	998·5	+5	37	+7	SE	3	SW	bc	2	6	37.	30.				
	C. Gris Nez ...	997·8	45	WSW	6	r	998·6	-2	45	+2	S	3	*	m	7	21	46	41.				
	La Hève	997·1	49	WSW	6	0	997·8	*	45	?	WSW	6	*	0	6	-	52	43				
	Brest (St. Mathieu)	997·7	46	NW	5	0	998·1	+4	50	+4	W	5	*	bc	6	2	48	39.				
	Rochefort (Ile d'Aix)	998·3	48	WSW	4	0	999·6	+4	60	+4	N	4	*	0	*	7	54	46.				
	Biarritz	998·0	54	SW	4	0	999·6	+2	52	-3	WSW	5	*	c	4	1	57	48				
	Paris	998·7	43	S	3	b	999·5	+4	45	+6	S	3	-	0	*	Trace	48	39				
	Belfort	999·0	45	NSW	4	c	999·3	*	42	+3	?	3	*	b	*	-	45	39.				
	Lyons	998·4	48	SW	2	c	999·7	*	?	?	WSW	2	*	bc	*	4	52	39.				
	Nice	999·9	45	E	1	b	1000·6	+2	47	-1	E	4	*	r	6	2	54	41.				
	Perpignan ...	999·1	48	NW	2	b	998·0	+4	37	-2	W	1	SW	c	*	-	59	37.				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1020·8	*	WSW	5	c.							*									
	Madeira																					
	Gibraltar	1005·4	53	W	5	bc	1011·8	*	51	-	W	4	*	b	3	4	61	50.				
	Malta	*	*	*	*	*	1009·1	0	68	0	S	3	SW	0	1	-	73	64.				
	Limassol	*	*	*	*	*	1009·1	+3	63	-3	W	2	-	b	1	- -	75	54.				
	Alexandria ...	1020·6	68	ENE	2	bc	1021·7	0	66	0	ENE	2	N	c	2	-	75	64				
	Cairo (Helwan) ...	1018·3	66	NE	4	b	1017·9	0	66	+3	NE	6	-	b	*	-	75	63.				

GALES

Deerness: 19th
ESE. 8 at 16h.
Jersey. 20th
WSW. 8. early morning.
Dungeness: 20th
SSW. 8. 2h - 4h.
Dover: 20th
S.8 5h to 7h., SQ at 4h.
Wick: 19th - 20th
ESE. 8 4h - 7h.
Nairn: 19th
E 8 14h - 17h. E 9. 17h.
Aberdeen: 19th
E.8. 4h - midnight
Gusts 27 m/s at 21h.
Tynemouth: 19th
E.8. 4h - 13h.
Spurn Head: 19th
E.S.E. 8 4h - 13h.
Yarmouth 19th & 20th
E.S.E 8 4h - 13h.
S.8 @ 4h of 20th

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	93	92	0·0	42	35	35	17	0r.	0r.	0rs0r
CITY (Bunhill Row) ..	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	98	93	0·0	43	36	35	15	brs.	r0r	0r.
CAMDEN SQ. (British Rainfall) ..	-	94	0·0	42	35	34	19	-	-	*
HAMPSTEAD (Reservoir)	*	96	0·0	40	34	23	21	0rs	0rh	0rm.
S. KENSINGTON (Museum Grounds)	*	87	0·0	43	36	34	14	0dm.	0gm.rs	0rmod.
RICHMOND PARK	*	*	-	*	*	*	*	*	*	*

SOUTH KENSINGTON.

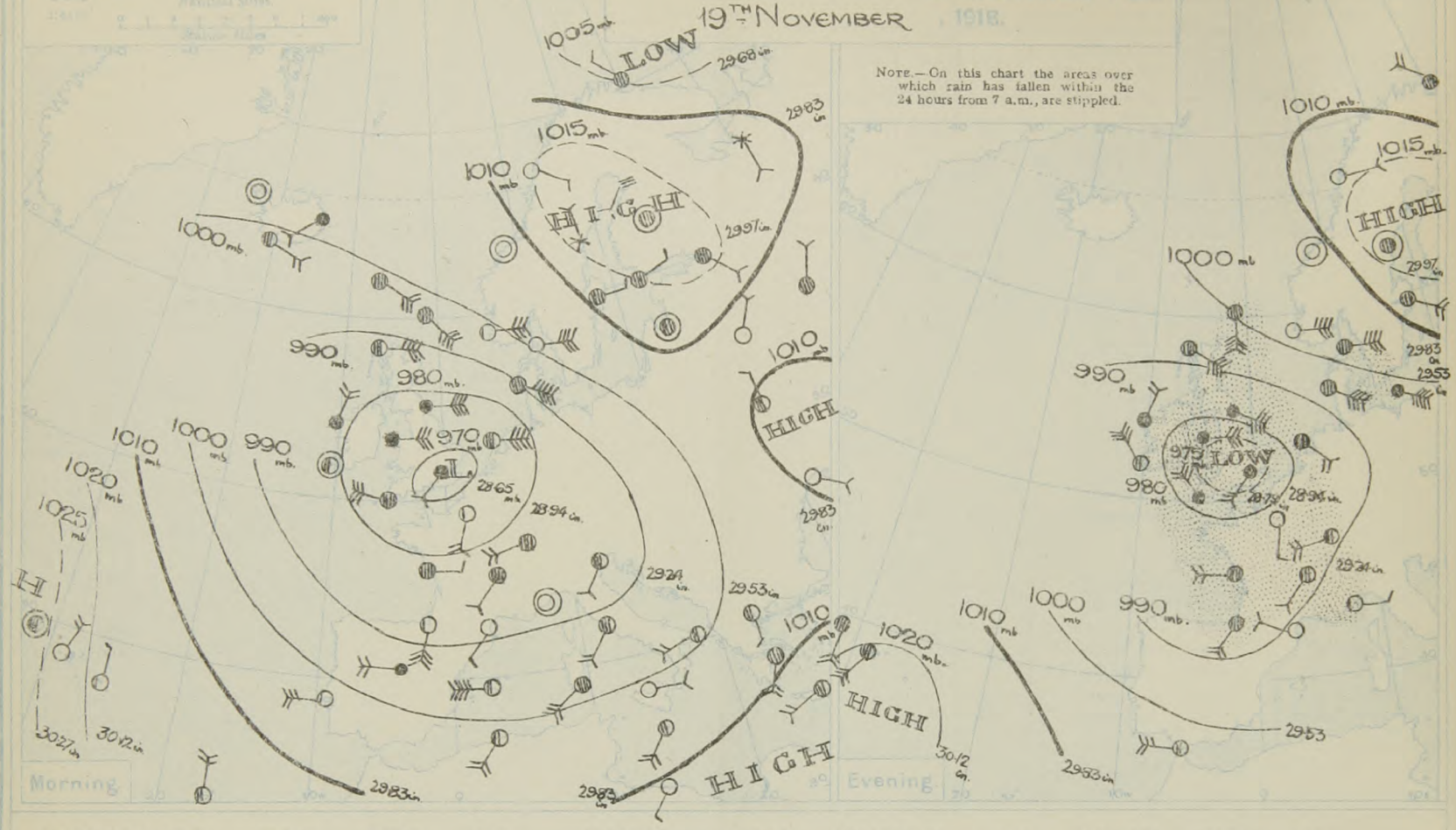
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
63	20.	40

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 NOVEMBER, 1918.



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.

STORM WARNINGS.

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

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

Western Channel and Bay

0 a, b, 1, 2 a, b — Wind mainly East or South-East, high or strong, moderating somewhat later; rain at times, sleet locally; temperature rather low.

3 — Southerly winds, strong to a gale, then moderating; rain at times; moderately cold.

4 a, b — Variable winds, rain or sleet at times; cold.

5 — Wind between West and South, fresh to light; rain at times; rather cold.

6 a, b, 7 a, b — East and North-East winds, moderate; rain or sleet at times; cold.

8 a, b — Westerly and North-Westerly winds, fresh or moderate; changeable, showery; rather cold.

9 a, b — Same as Nos. 6 and 7.

10 a, b — Same as No. 8.

11 — Wind mainly Westerly, fresh or strong, sea rough; much cloud, some rain.

FURTHER OUTLOOK.

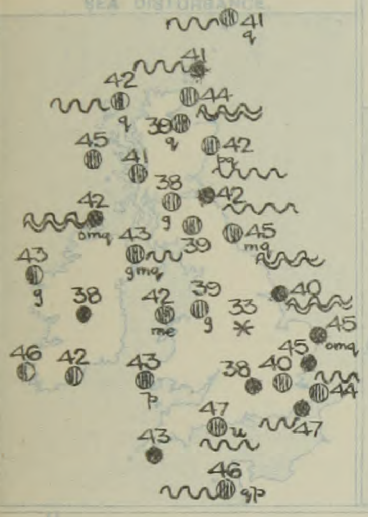
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF Monday, 20th NOVEMBER, 1916.

GENERAL INFERENCE.

The depression over England seems likely to disperse very gradually.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

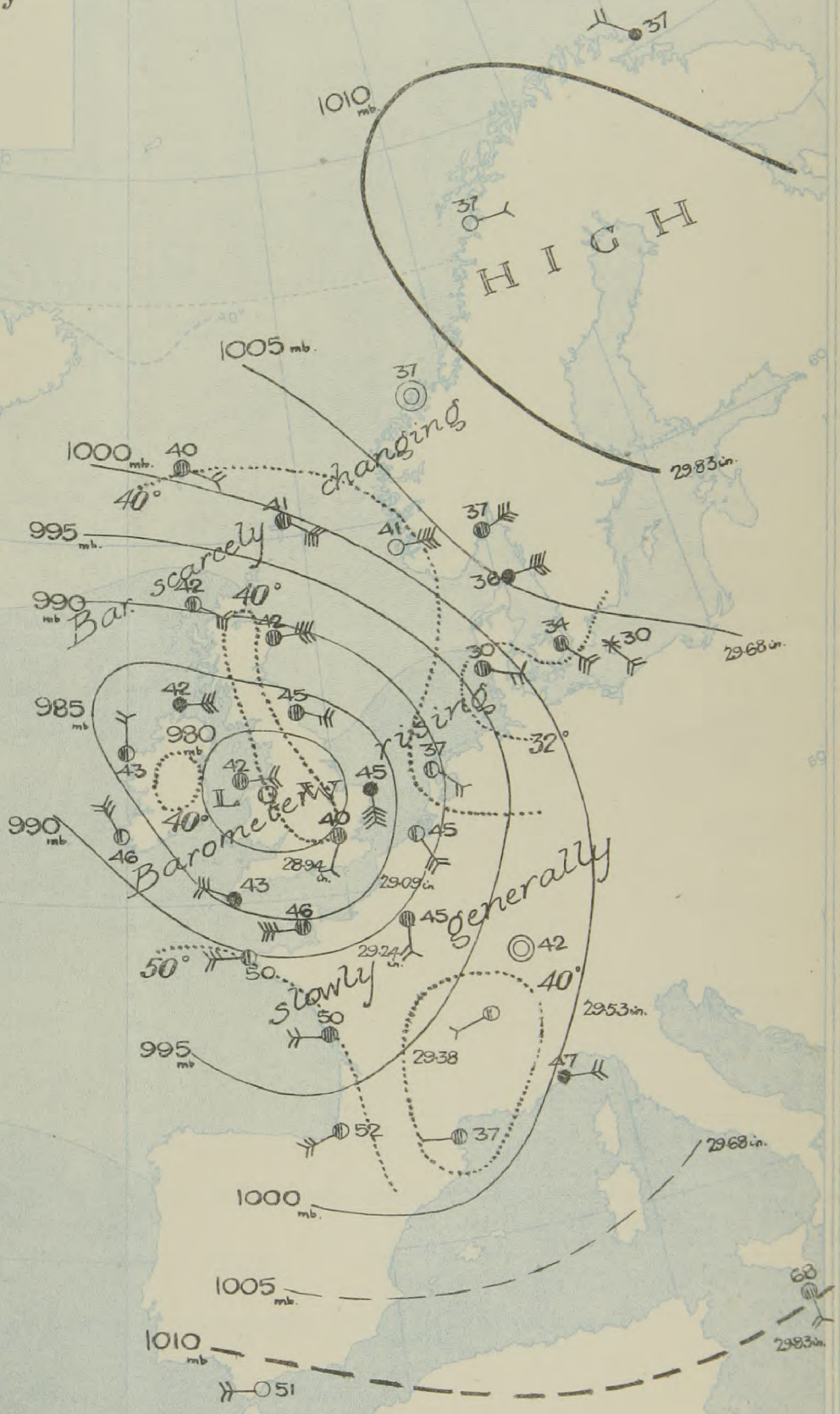
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



Scale 1 : 2 x 10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 50 | 50-60 | 60-70 | Above 70

Scale of Tints for NOVEMBER.

Issue No. 20087. **DAILY WEATHER REPORT.** Monday, 20th November, **1916.**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia	Archangel	1014.4	14	SE	2	o	1012.4	?	19	+ 3	S	2	S	—	*	14
	Gorki	1002.7	19	NE	1	bc	1007.3	+ 6	16	+ 6	NE	2	b	—	*	10
	Velieki Luki						1013.0	*	28	+ 9	—	0	o	1	*	19
	Hangö						1015.1	o	30	+ 3	—	0	o	—	*	23
	Riga	1010.3	30	ENE	2	o	1012.4	+ 1	30	+ 5	—	0	o	1	*	25
	Petrograd	1012.6	32	ENE	4	o	1015.8	+ 2	27	0	SE	2	o	—	?41	27
	Moscow	1006.6	19	NE	2	o	1008.6	+ 3	25	+ 9	NNE	2	o	1	*	16
	Kiev	1005.2	23	WNW	3	o	1010.7	+ 3	9	−14	N	1	c	2	*	7
	Kharkov	1003.4	25	W	4	o	1008.6	+ 4	19	− 22	W	3	o	—	*	19
	Kishinev	1008.4	18	—	0	b	1008.3	o	16	− 9	—	0	o	—	*	7
	Elisabetgrad	1007.9	14	W	1	b	1010.7	+ 3	16	− 3	WSW	1	o	30	*	9
	Nicolaiev	1009.2	27	SW	2	b	1010.4	*	21	− 4	ESE	2	b	—	*	19
	Odessa	1009.7	28	NW	2	b	1009.5	− 1	30	+ 5	ENE	3	s	—	*	25
	Tarkhankout	1009.7	41	W	4	o	1008.2	*	37	− 4	NE	3	o	—	*	36
	Soukhoum	1010.0	57	ENE	3	o	1010.6	− 1	57	+ 3	ENE	2	o	10	*	54
Mediterranean.	Venice	9747	39	NE	2	r	984.2	*	39	+ 3	SW	2	c	30	43	36
	Pesaro	9849	39	SW	1	o	986.4	*	43	+ 7	SSW	1	b	12	59	36
	Rome	9909	57	SE	3	o	993.2	*	59	+ 2	SW	3	c	21	61	57
	Viesti	9966	57	SSW	2	o	9946	*	61	+ 6	SW	3	o	—	64	41
	Brindisi	9980	?	SE	4	?	998.1	*	63	+ 4	WSW	3	bc	—	64	55
	Cagliari	996.0	61	ESE	5	o	997.2	*	59	+ 2	SW	5	o	—	66	48
	Palermo	1001.4	66	ESE	2	o	1002.2	*	68	+ 4	E	2	b	—	78	?
	Tripoli	1010.7	63	—	0	b	1010.2	*	64	+ 5	SW	1	b	—	77	54
	Algiers	1001.3	70	W	7	o	1003.9	+ 1	63	− 3	SW	4	bc	?	77	63
Sweden.	Hernösand	1016.4	32	N	2	r	1017.7	*	30	+ 3	N	2	S	*	*	*
	Stockholm	1011.4	34	NNE	2	o	1013.0	*	36	+ 4	E	2	o	*	*	*
	Wisby	1007.8	36	NNE	2	o	1009.3	*	34	0	ESE	2	o	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord	1002.0	34	−12	—	o	b
Reykjavik	9999	39	− 4	E	2	bc
Vestmanna	999.7	41	− 4	E	3	c
Seydisfjord	1005.2	39	− 6	SW	2	r
Thorshavn	999.9	42	− 1	SE	5	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	—	44	34	od	od	0.0
	Banff	1	Trace	43	40	bc. r. cq	op. rq	0.0
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	19	9	37	32	r	r	0.0
	Skegness	8	Trace	41	39	or	or o	0.0
Eng. N.W.	Morecambe							
	Southport	8	6	39	34	r o	r	0.0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	10	7	39	35	rs	r	0.0
	Colwyn Bay	*	*	40	37	or	or	0.0
	Llandudno	*	*	42	38	r	r	0.0
	Aberystwyth	*	*	39	31	r. o	o. or	0.0
	Tenby							

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	12	1	46	35	oqr	op. bc	0.0
	Walton-on-Naze							
	Southend-on-Sea	18	2	45	34	or	o	0.0
England, S.E.	Margate	17	1	44	35	o	or	0.0
	Ramsgate	18	3	48	34	or o	or	0.0
	Hastings	22	4	44	36	op	op	0.0
	Eastbourne	*	*					
	Seaford	16	—	43	35	or	om	0.0
	Brighton	10	1	40	33	d. o	o	0.0
	Worthing	8	Trace	40	36	d	r. o	0.0
	Littlehampton	*	*					
	Bognor	4	3	41	32	or	or	0.0
	Bournemouth							
England, S.W.	Weymouth	*	*					
	Torquay	—	1	45	36	o. c	or	0.3
	Paignton	*	*					
	Penzance							
	Newquay	Trace	5	45	33	op	op	0.0
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

20th & 21st November, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.24 / 7.26	11.39 / 11.39	3.54 / 3.51
Greenwich	7.28 / 7.29	11.46 / 11.46	4.4 / 4.3
Wick	8.14 / 8.16	11.58 / 11.58	3.42 / 3.40
Valencia	8.11 / 8.12	12.27 / 12.27	4.43 / 4.42

NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally, sleet in places; 18 mm. at Dungeness and Benson. Temperature remained below 40° Scarcely any bright sunshine was recorded. Easterly gales were again very general over the North Sea.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 326

Tuesday, 21st November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS						Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp	Wind. Direc	Wind. Force 0–12	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0–12	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	995·7	42	ESE	7	cq	988·6	-14	46	+5	SE	9	–	cq	8	11	46	40	omq	oqp	orq	*
	Deerness (Orkney)	991·2	44	ESE	5	r	985·1	*	45	+14	SE	5	–	bc	4	11	46	41	r.op	op	r.o.c.bc	0·0
	Stornoway ...	987·3	44	E	4	oqp	983·9	0	42	0	SW	3	–	op	3	2	44	41	c.oq	oqp	bcp	0·0
	Castlebay (Barra Isd.)	986·2	41	E	1	r	986·4	0	43	-2	W	2	–	op	2	8	45	40	or	r	r.d.op	0·0
	Glasgow ...	986·5	41	NE	2	bc	989·8	+6	41	+3	SSW	2	–	omr	*	1	44	37	odp	cm.op.c	bc.b.bp	0·1
	Eskdalemuir ...	982·3	40	NNW	2	c	991·6	+5	38	-1	S	2	–	omd	*	1	41	32	o.c.op.c	c.od.c	c.b.omd	1·0
	Malin Head ...	984·9	42	E	2	omr	988·0	+2	42	0	SW	2	SW	bcp	2	10	44	40	omr	omr	bcp	0·0
	Blacksod Point	986·8	45	NW	4	cg	991·5	+3	46	+3	NW	5	NW	bc	4	5	46	40	cp	cg	bc.b.p	*
	Valencia ...	991·0	47	WNW	5	c	996·5	+3	45	-1	WNW	3	–	bcp	4	3	49	43	bc.bv	b.bc.op	cph	4·0
	Roche's Point	990·4	45	WNW	3	b	995·6	*	42	0	NNW	2	–	o	2	0·2	50	41	cp.bc	bc.b.	b.bc.p.b	*
	Birr Castle ...	987·8	40	–	0	c	993·9	*	40	+2	WSW	1	–	c	*	1	42	37	od.r	od.r.c	c	0·0
	Donaghadee ...	974·0	45	NE	3	ogm	989·8	+3	40	-3	SW	3	–	ogm	2	0·2	46	38	ogm	ogm.	ogm.bm	*
	Liverpool (Bidston)	985·3	42	SW	3	o	994·2	+4	39	0	SSE	2	S	b	2	–	43	38	ogg	ogg	bcm.	0·0
	Holyhead ...	985·4	40	W	5	omdp	992·9	+3	45	+3	W	4	–	omp	3	3	47	41	op.cm.	c.omp.	cp.omp	0·0
	Pembroke (St. Ann's)	989·2	48	W	5	cq	995·1	+4	47	+4	W	3	W	c	4	0·4	49	43	cq	cq	bql.cp	0·6
	Scilly (St. Mary's)																					
	Falmouth ...	992·8	43	WSW	3	b	997·1	+4	42	-1	WNW	1	–	o	*	3	51	39	cp.bc	bq.b.	bc.cpd	6·0
	Jersey (St. Aubin)	994·2	50	WSW	4	b	997·0	*	45	-1	SW	3	SW	cp	3	6	53	43	qp.bc	bc.b.	b.or.cp.	4·5
	Portland Bill ...	991·1	48	W	5	bc	996·1	+2	45	-2	WSW	2	SW	c	3	1	49	44	bcp	bc.	bc.cp.	*
	Dungeness ...	991·2	47	SW	5	bc	996·7	+1	48	+1	SSW	3	SW	bc	3	7	49	43	qp.cp	qp. bcp	r.c.bz.c	*
	Dover	992·4	46	SW	4	b	998·1	0	46	+2	S	3	N	b	4	12	?	44	op.r	op.r. bc.	b.	0·1
	Wick	989·6	46	ESE	5	r	984·8	+2	44	0	SSE	5	–	r	6	9	47	39	ogqp	oqp	omrq	*
	Nairn	987·0	42	E	1	cg	986·0	*	39	0	-	0	–	bc	1	3	42	37	og	og	ep.c	0·0
	Aberdeen	986·1	46	ESE	6	oqp	989·1	+6	40	-2	SSW	3	–	b	5	10	46	39	oqp	oqp.	oqp.b.	0·0
	Leith	982·6	45	E	4	r	989·8	+3	40	-2	SE	1	S	c	4	5	46	40	r.o.c.o	od.or.	r.or.c	*
	Tynemouth ...	981·9	39	S	2	om	992·2	+6	40	-5	SW	2	SW	bcm	4	4	45	39	omqr	omp.	bcm	*
	Spurn Head ...	985·3	39	SW	4	om	996·0	+1	39	-1	SW	3	–	bc	4	3	44	37	o	om.	bc.	0·0
	Yarmouth ...	988·7	44	SW	5	bc	998·0	+2	37	-8	WSW	2	–	b	1	8	46	37	omqr	eqp. bc.	bc.b	0·0
	Clacton-on-Sea	990·1	45	S	4	c	997·8	+2	44	-1	S	2	SW	bc	2	2	49	40	oqr.oq	oq.c	cp.bc	0·5
	Nottingham ...	986·2	39	SW	2	o	995·8	*	33	0	SW	1	–	b	*	1	42	32	d.om	odm	c.o	0·0
	Benson (Oxon.) ...	988·9	42	SW	3	b	997·5	+2	42	+4	S	2	–	bcx	*	0·4	43	31	or	bc.	b.	*
	Sth Farnborough	990·3	43	SW	3	bc	997·0	+2	34	-6	–	0	S	c	*	0·4	47	31	r.o.c.o	or.o	o.b.c	0·5
	London (Kew Obsy.)	990·6	45	WSW	3	bc	997·6	+1	33	-7	E	1	–	ofx	*	1	46	30	od.o.c.o	o.op.c.bc	bc.b.bc.o.b	0·2
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1016·7	34	N	1	s	1015·9	-3	34	-3	S	1	–	o	8	*	37	32				
	Bodö	1012·7	37	E	2	b	1010·7	0	39	+7	E	2	–	b	2	–	39	30				
	Christiansund ...	1006·3	39	SE	5	b	1005·6	0	37	?	SE	1	S	b	3	–	39	34				
	Skudesnaes ...	1001·2	41	ESE	7	o	1001·3	0	43	+6	ESE	8	–	o	5	–	43	32				
	Færder (X'tiana Fjord)	1010·6	37	E	4	r	1009·9	0	37	0	E	5	–	o	3	4	37	36				
	The Scaw (Skagen)	1007·9	37	E	4	o	1006·9	0	41	+5	SE	5	–	o	5	3	41	36				
	Blaavands Huk	1001·0	36	ESE	3	m	1002·1	+1	36	+6	SE	2	–	b	3	–	41	28				
	Copenhagen ...	1007·7	37	SE	3	o	1006·3	-2	41	+7	E	4	–	m	*	Trace	41	34				
	Bornholm ...	1008·8	36	ESE	3	m	1006·4	-3	43	+13	SE	?9	–	m	2	–	43	30				
FRANCE, &c.	The Helder ...	993·9	45	SSE	4	o	999·3	0	34	-3	S	2	–	b	1	Trace	46	34				
	C. Gris Nez ...	992·3	48	SW	7	r	998·6	+1	39	-6	S	3	*	bc	3	9	50	39				
	La Hêve	?	46	WSW	5	c	?	*	39	-6	?	4	*	m	4	3	50	39				
	Brest (St. Mathieu)	996·4	47	WNW	3	o	999·4	‡2	46	-4	WNW	4	–	o	3	10	54	45				
	Rochefort (Ile d'Aix)	999·9	48	SW	4	r	1001·5	+2	46	-4	W	4	*	r	*	2	52	46				
	Biarritz	1003·3	51	W	6	r	1004·4	0	43	-9	S	2	*	b	5	16	52	41				
	Paris	998·4	41	S	2	b	1000·3	0	36	-9	S	2	–	f	*	–	52	34				
	Belfort	1001·3	45	–	0	o	1000·4	*	37	-5	WSW	2	*	r	*	1	52	37				
	Lyons	1000·8	45	–	0	o	1001·2	*	42	?	NNW	4	*	c	*	–	54	40				
	Nice	995·1	44	–	0	r	993·9	+2	45	-2	SE	1	*	bc	4	17	50	41				
	Perpignan ...	1000·6	50	NW	3	b	1003·9	+2	46	+9	NW	3	–	b	*	–	57	37				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1005·9	50	SW	1	c	1004·0	+1	48		–	0	W	bc	S	5	54	46				
	Madrid	1017·1	51	S	1	o	?1013·9	-1	54	+13	WSW	5	–	r	*	6	52	41				
	Lisbon																					
	Azores (Horta) ...	1008·4	*	W	9	m							*									
	Madeira	1015·7	68	WNW	3	r	1017·0	+2	68	+7	NW	4	–	bc	3	–	70	61				
	Gibraltar	1012·8	55	W	4	r	1005·4	*	58	+7	W	4	*	r	3	44	58	49				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1022·9	+1	57	-6	–	0	–	b	4	–	75	45				
	Alexandria ...	1020·3	68	ENE	2	b	1018·9	0	72	+6	E	2	SW	bc	1	–	77	68				
	Cairo (Helwan) ...	1018·0	70	NE	1	b	1017·0	+2	68	+2	–	0	–	b	*	–	81	64				

UPPER AIR.

* South Farnborough.
Pilot Balloon Ascent at 7.22 a.m.

3000 metres.	S	5 metres per sec.
2700 "	S	7 " "
2400 "	S'W	5 " "
2100 "	S	6 " "
1800 "	S'W	6 " "
1500 "	SSW	5 " "
1200 "	S	3 " "
900 "	SE'S	3 " "
600 "	SSE	4 " "
300 "	S'W	4 " "
Surface	SSE	2 " "

GALES
Duration and Extreme Force in British Islands.

Lerwick.
20th 10p.m. – 21st 7a.m. SE 9
Dungeness.
20th 7a.m. – 8a.m. SSW 8
Dover.
20th 9th SW 9
Wick.
20th 7a.m. – 11a.m. ESE 8.
Aberdeen.
20th Noon Gust ESE 21 m.p.s
20th 8p.m. " E 19 m.p.s.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	79	94	0·2	47	33	25	2	or o	o	b.bc.c
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	85	100	0·1	47	31	28	0·4	r.o	o	of
CAMDEN SQ. (British Rainfall) ..	81	100	0·0	46	33	28	0·3	ond.o	o	*
HAMPSTEAD (Reservoir)	*	84	0·0	43	36	20	1	or.bc	o	o.bc
S. KENSINGTON (Museum Grounds)	*	87	0·0	46	36	27	0·2	odm.or	o	o.b.bc.c
RICHMOND PARK	*	*		*	*	*	*	*	*	*

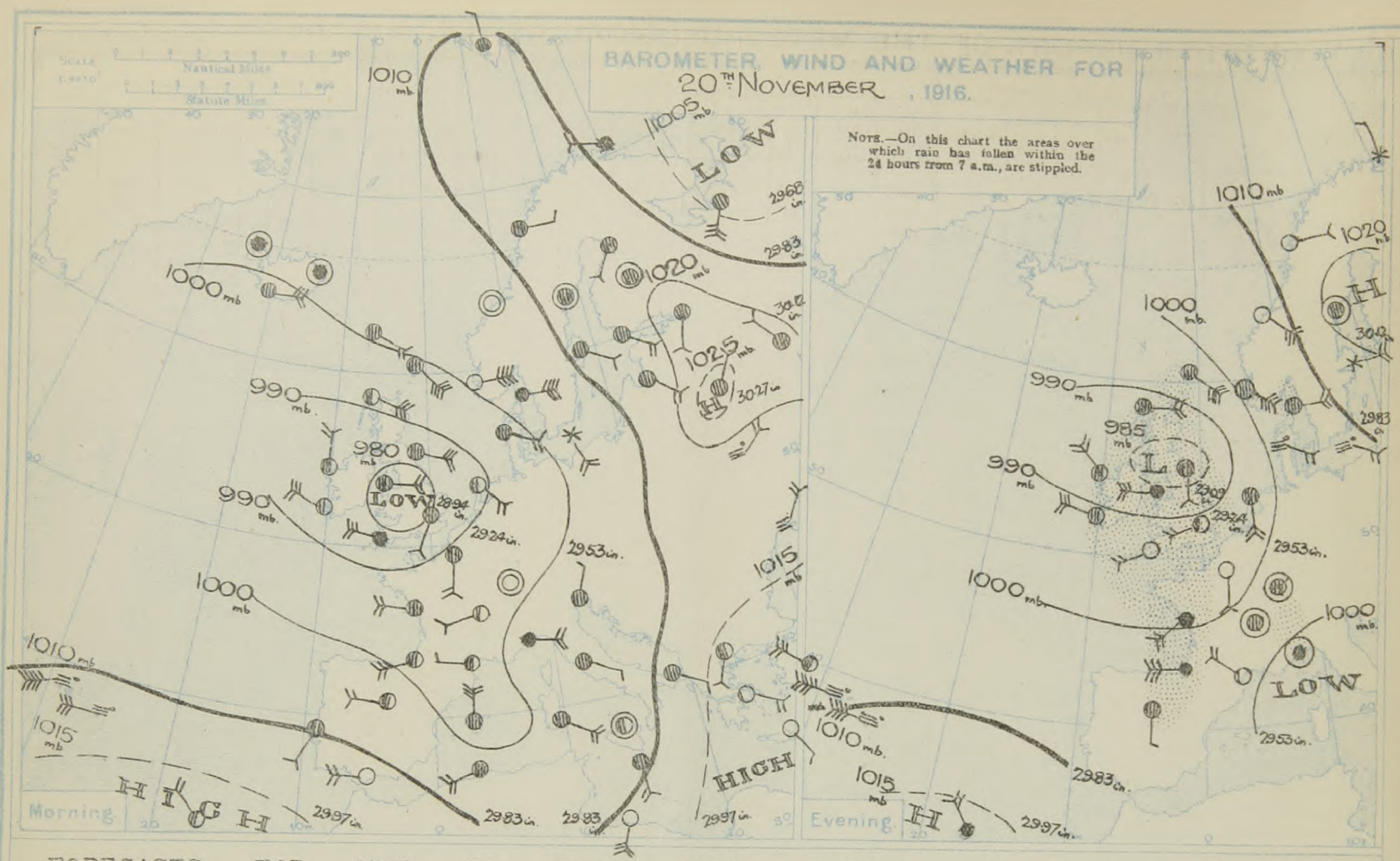
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
188	6·1	19·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

STORM WARNINGS.

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

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

No Warnings Issued.

0	a, b	Light to moderate breezes, South to West; changeable, local showers and mist or fog, fair intervals; moderate temperature.
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	Moderate Westerly breeze; sea moderate; changeable, some rain, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF Tuesday, 21st NOVEMBER, 1916.

GENERAL INFERENCE.

The recent depression is passing away towards Iceland, and quieter, fairer conditions are likely to become general over this country for the ensuing 24 hours .

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 ≈≈.

SCALE 1 : 2 (10°)
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 3 4 500

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

1015 mb. 34 HIGH 29.97 in.
1010 mb. 39 29.83 in.
1005 mb
1000 mb
995 mb
40° 37
990 mb. 44 Bar. falling 46 43
985 mb LOW 42 29.09 in.
Barometer rising 40 29.24 in. 36 41 43 40° 29.68 in.
990 mb 42 40 29.38 in. 46 45 34 29.53 in.
995 mb. 45 37 33 39 P
42 slowly 45 generally 36 1000 mb 40° 37 42
1000 mb. 46
46 995 mb 45 LOW 29.38 in. 29.53 in.
1005 mb 49 43 46 50° 55
1010 mb
1015 mb. 58 29.68 in.
HIGH 68 29.97 in. 29.83 in.

Issue No. 20068. **DAILY WEATHER REPORT.** Tuesday, 21st November, **1916.**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1004.7	32	SW	5	o	1004.6	+ 3	34	+ 15	SW	5	o	—	*	19
	Gorki	1013.3	27	NE	2	o	1026.3	+ 3	23	+ 7	NE	2	o	—	*	12
	Velieki Luki ...	1017.7	27	—	o	o	1021.7	*	25	- 3	SE	2	o	—	*	23
	Hangö						1018.9	+ 1	30	0	ESE	3	o	—	*	27
	Riga	1015.3	28	ESE	3	o	1017.0	o	24	- 3	SE	3	o	—	*	27
	Petrograd ...	1019.8	23	SE	2	bc	1021.0	o	13	- 4	SE	2	o	—	30	19
	Moscow	10180	21	NNE	2	o	1021.6	+ 3	19	- 6	NNW	2	o	—	*	19
	Kiev	1013.6	16	ESE	4	o	1015.8	+ 3	23	+ 14	ENE	3	m	6	*	7
	Kharkov ...	1015.1	25	NNW	2	o	1017.7	+ 3	27	+ 8	NE	2	o	—	*	19
	Kishinev ...	1002.8	32	—	o	o	1011.9	+11?	34	+18	—	o	o	?	*	16
	Elisabetgrad ...	1010.1	23	ESE	4	s	1013.2	+ 4	24	+ 11	ENE	3	o	9	*	16
	Nicolaiev ...	1007.1	32	ENE	4	r	1011.9	*	34	+13	NNE	2	f	9	*	19
	Odessa	10046	41	ESE	4	o	1011.9	+ 9	36	+ 6	NE	2	f c	4	*	30
	Tarkhankout...	10042	50	E	5	o	1010.3	*	55	+18	W	5	c	5	*	37
	Soukhoum ...	10147	54	ENE	2	r	1016.3	+ 2	57	0	ENE	2	r	14	*	52
Mediterranean.	Venice	9967	45	NE	1	b	1005.9	*	45	+ 6	NNE	1	o	—	48	39
	Pesaro	10067	50	NNE	1	o	1005.3	*	54	+ 11	SSE	2	b	7	63	43
	Rome	10063	57	S	1	o	1085.2	*	61	+ 2	SE	1	o	2	63	57
	Viesti	10062	59	SE	1	b	1009.3	*	61	o	SE	1	o	—	66	55
	Brindisi	10076	63	E	1	b	1012.1	*	61	- 2	SE	1	o	—	70	61
	Cagliari	9969	61	SE	4	c	1000.9	*	61	+ 2	ESE	4	o	—	68	50
	Palermo	1007.0	64	ESE	1	b	10047	*	57	- 11	—	o	bc	10	73	52
	Tripoli	1009.2	64	—	o	b	1010.2	*	64	o	ESW	4	b	—	82	59
	Algiers	1002.3	63	W	3	bc	1002.0	o	55	- 8	WSW	4	o	10	70	52
Sweden.	Hernösand ...	10189	30	—	o	o	1017.6	*	28	- 2	—	o	o	*	*	*
	Stockholm ...	10139	34	ESE	4	o	1015.0	*	34	- 2	ESE	2	o	*	*	*
	Wisby	10104	36	ENE	6	o	1012.0	*	36	+ 2	ESE	2	o	*	*	*

Iceland.	Baron. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		F	F			
Isafjord ...	1002.6	28	-6	—	o	r
Reykjavik	998.1	39	o	E	3	o
Vestmanna	997.6	41	o	E	5	o
Seydisfjord	10039	37	-2	—	o	r
Thorshavn	1000.2	40	-2	ESE	3	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	Trace	—	43	40	opd	opd	0.0
	Banff	5	3	44	37	or.o	or.c	0.0
	Montrose							
	Carnoustie	*	*					
	St. Andrews	4	1	47	39			0.0
Eng. N.E.	Harrogate	3	Trace	38	35	o	md	0.0
	Skegness	7	3	48	38	our	our	0.0
Eng. N.W.	Morecambe	—	1	44	38			0.0
	Southport	2	1	45	37	c.or	or.o	0.0
Midlands.	Leamington Spa							
	Malvern	3	1	42	32	d	d	0.0
	Ross-on-Wye	1	Trace	43	34	c.bc	o.bc	0.0
Wales.	Rhyl	7	—	44	37	r	r.b	0.0
	Colwyn Bay...	*	*	45	37	r.bc	bc	0.0
	Llandudno	*	*	46	39	c	c	0.0
	Aberystwyth	*	*	45	36	r.o	r.o	0.0
	Tenby	1	1	46	42	bc.c	or	0.4

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	14	Trace	47	41	op	o.c.o	0.0
	Felixstowe	15	1	47	37	op.c	c.bc	0.0
	Walton-on-Naze							
	Southend-on-Sea	7	—	46	39	o	o.c.bc.b	0.0
England. S.E.	Margate	16	Trace	47	36	or	c	0.0
	Ramsgate	14	4	45	40	r	o.bc	0.0
	Hastings							
	Eastbourne	29	2	49	42	ogr.bc	or.b.o	0.1
	Seaford	*	*	50	41	r	r.o	0.3
	Brighton	22	1	48	41	op	p.o	0.0
	Worthing	13	1	48	39	d.o	c	0.3
	Littlehampton	16	1	49	39	o	bc.o	0.6
	Bognor	*	*	49	40	or	bc	0.8
	Bournemouth	5	1	47	36	o	o.c.	0.7
England. S.W.	Weymouth...	*	*	50	42	op.bc	bc	1.0
	Torquay	1	—	50	42	o.c	c.bc.b	2.9
	Paignton	*	*	50	37	op.o.bc	bc	3.6
	Penzance	8	—	51	41	c.bc	c.	4.5
	Newquay	6	1	50	41	b.p	bc	3.7
	Bude	9	2	49	41	p	bcp	1.1
	Ilfracombe	1	2	50	40	p.c	p.c.	0.0
	Weston-s-Mare	—	Trace	47	35	cr.bc	c.bc	0.0

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

21st & 22nd November 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	7.26 7.28	11.39 11.39	3.52 3.50
Greenwich	7.29 7.31	11.46 11.46	4.3 4.1
Wick	8.16 8.18	11.58 11.58	3.40 3.38
Valencia	8.12 8.14	12.27 12.27	4.42 4.40

NOTES ON YESTERDAY'S WEATHER.

Temperature reached about the normal level. Rain was general, but not heavy. Most places had no sunshine, but Falmouth had six 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; z. hoar frost; z. dust-haze, or smoke.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 327

Wednesday, 22nd November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: Barometer: Millibars at M.S.L.	Barometer: Change in 3 hours. ‡	Temp: Dry Bulb. °F.	Temp: Change in 24 hours. °F.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS: Rainfall. Millimetres.	Temp: Max. °F.	Temp: Min. °F.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	994·6	48	S	6	cq	998·9	0	45	-1	SSW	2	SW	bc	2	2	48	43	cqp	cqp	bc	*
	Deerness (Orkney)	993·2	45	S	4	bc	1000·3	*	41	-4	SW	3	-	b	3	-	46	41	bc.c	c.bc	bc.b.	1·2
	Stornoway ...	991·5	41	SW	3	bcp	999·0	0	45	+3	SSW	6	-	bcq	5	3	45	41	bcp	bcp.	bcqp	3·5
	Castlebay (Barra Isd.)	995·0	47	WNW	4	bcp	1001·6	+2	49	+6	SW	5	-	cp	5	4	49	42	cp.bcp	cp.cp.	c.o.bcp	0·7
	Glasgow ...	998·1	44	SW	2	cm	1005·8	+2	41	0	SW	2	W	b	*	2	45	39	omp	omp	c.bc.bm	0·0
	Eskdalemuir ...	999·9	40	S	2	bc	1008·0	+4	30	-8	SSW	1	W	bc	*	0·2	42	29	bdm.c	or.c.bc	bm.e.bc	0·1
	Malin Head ...	997·9	47	WNW	4	bcq	1004·3	+2	41	-1	SSE	4	SE	bcq	4	4	47	40	cqp	cqp.	cqp	0·2
	Blacksod Point	1000·5	43	NW	2	bc	1003·6	0	47	+1	SSW	5	SW	cg	4	1	48	42	bc	bcp	bc.cp.	*
	Valencia ...	1003·4	38	-	0	b	1008·6	+3	48	+3	S	3	-	b	*	0·4	50	35	b.bc	bcp.b.	b.bc.c.o	6·1
	Roche's Point	1004·7	43	NNW	1	b	1010·5	*	45	+3	SW	1	-	o	2	0·2	49	35	b	b	b.o	*
	Birr Castle ...	1003·0	40	W	1	c	1008·5	*	36	-4	S	1	-	bc	*	-	48	33	bc	bc.c.	bcx	4·8
	Donaghadee ...	999·1	43	SSE	3	bcm.	1006·7	+2	38	-2	WSW	3	-	bm	2	-	46	35	cm	cm.	bm.	*
	Liverpool (Bidston)	1001·3	43	SW	2	o	1009·6	+3	41	+2	WSW	3	W	b	2	1	47	39	bm	o	or.bc.	3·9
	Holyhead ...	1000·6	48	W	6	cp	1009·4	+3	44	-1	W	4	W	c	3	3	49	42	cp.bc.	cp.omp.	b.bc.c	0·4
	Pembroke (St. Ann's)	1002·7	48	WNW	2	bc.r	1010·9	+6	49	0	WSW	2	W	bc	2	-	50	46	c.bcv	b.bcv	b.bc.	4·7
	Scilly (St. Mary's)																					
	Falmouth ...	1003·9	41	WNW	2	bz	1012·6	+4	39	-3	WNW	2	-	cx	*	5	47	37	oph.oz	cz.o.cz	bzc	0·8
	Jersey (St. Aubin)	1001·5	45	WNW	3	b	1011·7	*	45	0	W	3	W	bc	3	7	52	42	op.c.bc	bcp.c.	op.bc.	1·6
	Portland Bill ...	1002·0	44	NNW	1	b	1011·0	+6	47	+2	WNW	3	-	b	3	1	47	45	c.bc.	bc.	b.bc.	*
	Dungeness ...	1000·4	47	SW	3	bc	1007·5	+5	33	-15	NW	2	-	mx	2	-	50	33	bc	c.bc.	b.bcmx	*
	Dover	1002·6	43	-	0	bc	1008·9	+4	36	-10	NW	3	-	b	2	4	50	35	op.r.b.h.	op.r.bc	bmw	1·9
	Wick	993·9	45	S	4	bc	1001·4	+2	39	-5	SSW	2	-	b	3	0·2	45	37	omr.c	c.bcm.	b.	*
	Nairn	994·0	42	-	0	cq	1001·8	*	41	+2	-	0	-	cq	1	-	45	35	bc.cq	cq.	c.bc.c.	0·8
	Aberdeen	997·0	43	S	2	bz	1003·6	+2	34	-6	WSW	1	-	bzc	3	-	45	33	p.oz.bc	c.bc.bz.	bzc	1·4
	Leith	998·0	45	SW	1	b	1004·9	+2	40	0	W	1	W	bc	2	-	47	37	c.bc.c.	c.bc.b	bc.b.bc	*
	Tynemouth ...	999·5	41	SW	2	bm	1005·5	+3	38	-2	WNW	2	-	bm	3	-	45	36	bm	bm.	bm.	*
	Spurn Head ...	1001·0	43	SSW	3	bcm.	1006·4	+2	36	-3	NW	5	-	fc	4	1	46	35	bcm	bcm.	bm.	5·1
	Yarmouth ...	1000·8	43	NW	2	b	1005·8	+2	35	-2	NW	2	-	f	1	-	54	33	bcm	bcm.	bcp	6·9
	Clacton-on-Sea	1000·5	45	-	0	c	1007·9	+3	33	-11	NW	2	-	b	1	-	52	33	bc	bc.cm	c.bmx	5·2
	Nottingham ...	1001·0	36	SW	1	bm.	1008·1	*	32	-1	SW	1	-	f	*	-	47	29	bm.	bm	fc.	3·9
	Benson (Oxon.) ...	1001·7	32	-	0	b	1009·6	+5	35	-7	WSW	1	-	bcm	*	0·2	47	30	bc	b	f	*
	Sth Farnborough	1001·0	38	WNW	1	b	1009·3	+4	34	0	WNW	2	-	cx	*	-	46	27	c.bc.	bc.b.c.o	b.bcf.cx	2·5
	London (Kew Obsy.)	1001·7	41	-	0	bm	1009·5	+5	34	+1	WSW	1	-	omx	*	0·2	47	32	obc.b.	b.cm.bm	bm.bfo.bc	2·9
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1012·8	25	SW	4	b	1010·1	0	23	-11	WSW	4	-	b	3	*	36	25				
	Bodö	1011·7	30	E	2	b	1010·6	0	32	-7	E	2	-	b	2	-	39	30				
	Christiansund ...	1007·0	45	SE	3	b	1006·6	-2	46	+9	E	3	-	c	3	-	46	37				
	Skudesnaes ...	1003·9	43	-	0	c	1001·9	0	41	-2	ENE	4	-	o	3	?	45	37				
	Færder (X'tiania Fjord)	1008·4	39	NNE	6	o	1001·7	-1	36	-1	NE	5	-	r	2	24	39	36				
	The Scaw (Skagen)	1003·5	39	ESE	4	r	997·7	0	41	0	E	4	-	o	4	18	43	39				
	Blaavands Huk	998·1	34	E	2	r	994·1	0	41	+5	NNE	1	-	r	2	13	43	34				
	Copenhagen ...	998·0	43	ESE	7	r	993·5	+1	41	0	SSE	6	-	m	*	7	43	41				
	Bornholm ...	998·4	41	ESE	10	r	996·5	+1	39	-4	S	4	-	m	1	8	43	37				
FRANCE, &c.	The Helder ...	999·4	45	NNW	2	b	1002·7	+3	48	+11	WNW	4	-	o	3	-	48	34				
	C. Gris Nez ...	1001·6	39	S	2	bc	1007·8	+5	45	+6	WNW	3	*	m	2	2	46	39				
	La Hêve	993·6	44	WNW	4	c	?	*	46	+7	NNW	3	*	o	4	5	48	39				
	Brest (St. Mathieu)	1005·1	50	NW	3	bc	1013·5	+4	44	-2	ENE	2	*	bc	2	-	50	41				
	Rochefort (Ile d'Aix)	1004·8	46	WSW	2	o	1012·6	+4	45	-1	N	3	*	b	*	3	52	43				
	Biarritz	1005·7	53	W	2	b	1012·3	+4	47	+4	SE	1	*	o	3	-	55	43				
	Paris	1003·0	41	SSW	2	bc	1009·6	+5	37	+1	-	0	-	o	*	-	43	34				
	Belfort	1006·0	39	WSW	4	o	1011·3	*	36		WSW	2	*	o	*	5	45	36				
	Lyons	1006·7	42	-	0	b	1011·1	*	40	-2	NNW	2	*	o	*	-	48	36				
	Nice	1000·7	48	-	0	b	1005·9	+3	41		W	2	*	b	3	-	57	37				
	Perpignan ...	1006·9	45	NW	1	b	1012·2	+4	37		W	1	NW	bc	*	-	57	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1010·9	*	WSW	5	bc							*									
	Madeira	1018·4	72	NW	4	c	1021·5	+1	64	-4	NW	3	-	bc	3	-	73	64				
	Gibraltar	1010·1	64	W	9	r	1015·2	*	61	+3	NW	6	*	b	4	31	65	56				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·9	+1	57	0	-	0	-	b	5	-	81	50				
	Alexandria ...	1017·3	72	ENE	1	b	1017·0	0	70	-2	NW	1	NW	bc	0	-	84	68				
	Cairo (Helwan) ...	1017·0	73	N	3	c	1016·8	+1	73	+5	E	1	SE	bc	*	-	86	68				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.20 a.m.

1,500 metres	NW'N	10	metres per sec.
1,200 "	NW'N	10	" "
900 "	NW'N	10	" "
600 "	NW'N	10	" "
300 "	NW	10	" "
Surface.	W'N	4	" "

GALES
Duration and Extreme Force in British Islands.

Lerwick
21st 7 a.m. - 8 a.m. SE 9.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	88	97	1·8	49	33	28	—	bcm	c.om	bc.om.c.
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	91	96	0·0	46	33	30	—	f	f	f.
CAMDEN SQ. (British Rainfall) ..	89	99	0·0	43	32	28	Trace	f.o	om	*
HAMPSTEAD (Reservoir)	*	98	2·3	48	28	18	—	bcf.	bcf	bc
S. KENSINGTON (Museum Grounds)	*	99	0·0	45	32	31	—	b.bcm.f	f.bcm	bm.m.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

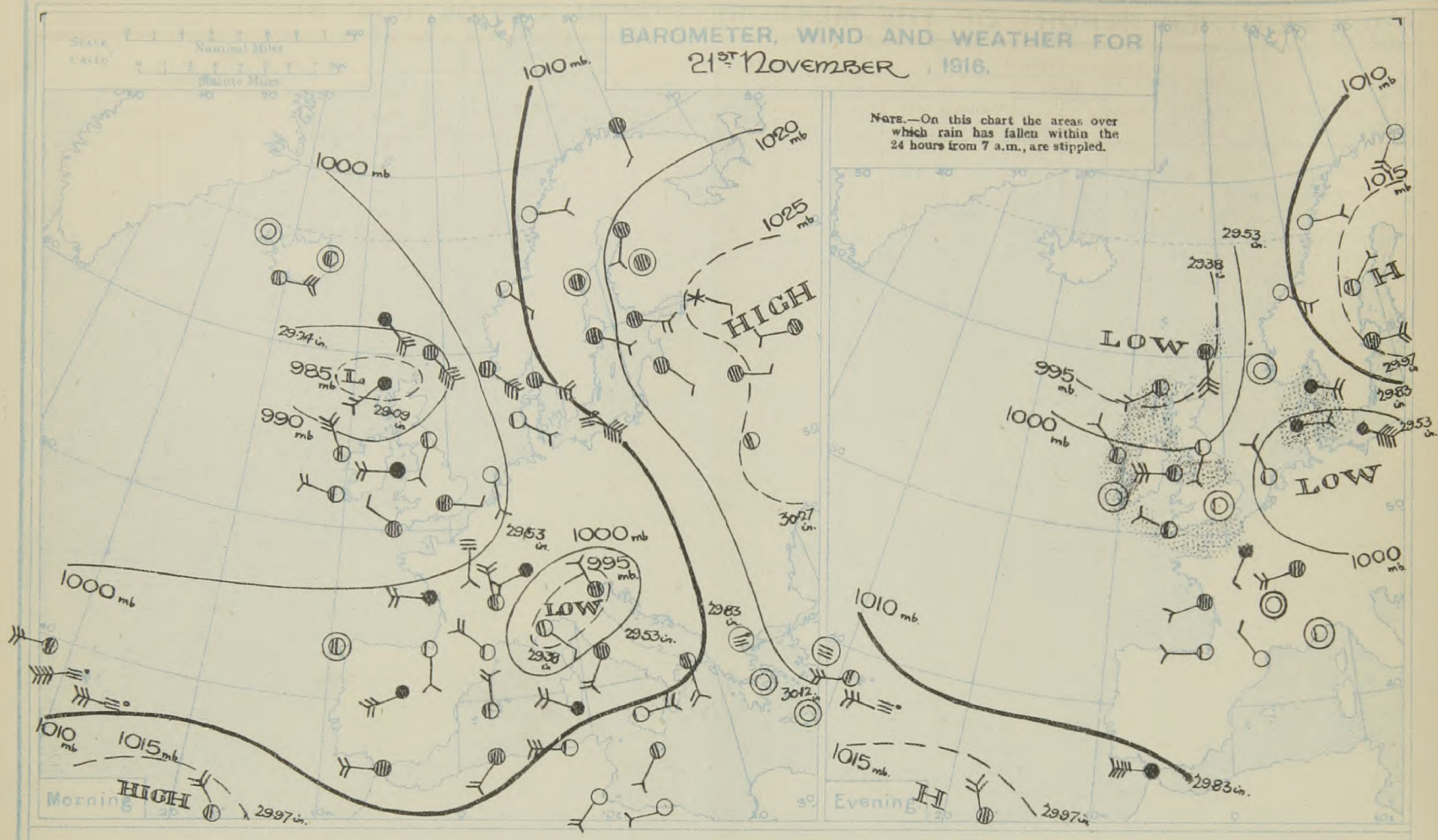
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
179	5·8	16·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 a, b — Southerly and South-Westerly breezes, moderate to fresh; changeable, some showers and mist; moderate temperature.

1

2 a, b

3

4 a, b

5 — North-Westerly breeze, light to moderate; generally fair or fine, some mist or fog; moderate day temperature, cold night.

6 a, b — Same as No. 0.

7 a, b — Westerly and South-Westerly breezes, light to moderate; generally fair or fine; some mist; moderate temperature.

8 a, b — Light to moderate Westerly breeze; generally fair or fine; moderate temperature.

9 a, b — Same as No. 0.

10 a, b — Same as No. 0.

11 — Wind between North-West and South-West, light to moderate; sea moderate; fair, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

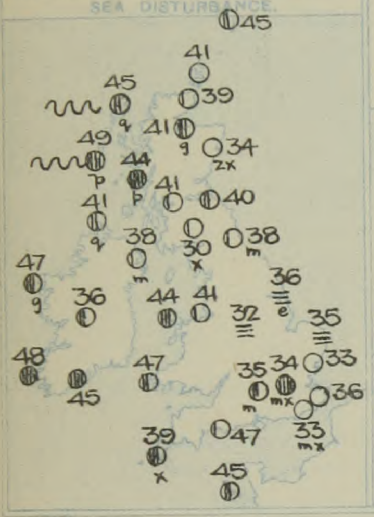
NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Wednesday 22nd NOVEMBER, 1916.

GENERAL INFERENCE.

Pressure is increasing everywhere and no important modification of the present condition is indicated.

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 ≈≈≈.

Scale for Nautical Miles and Statute Miles

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Units for NOVEMBER.

HIGH

LOW

Barometer generally rising

LOW

2983 in.
2968 in.
2953 in.
2938 in.
2924 in.
2968 in.
29.68 in.
2953 in.
2938 in.
2983 in.
2997 in.
3012 in.

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

32°
40°
40°
40°

Issue No. 20089. DAILY WEATHER REPORT. 22nd November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1011·9	32	SW	2	S										
	Gorki	10238	19	NE	1	0	1024·2	?	23	0	ESE	1	0	—	*	19
	Velieki Luki ...	1025·7	23	SE	2	0	1027·4	*	23	− 2	SE	2	0	—	*	21
	Hangö						1021·0	0	30	0	ESE	3	0	—	*	30
	Riga	1020·7	27	SSE	2	0	1021·2	−1	28	+ 1	SSE	1	0	—	*	27
	Petrograd ...	1023·7	19	SW	2	0	1026·4	+1	19	− 4	SSE	1	S	—	27	18
	Moscow	1026·1	19	W	2	0	1029·1	+2	18	− 1	NW	2	0	—	*	16
	Kiev	1024·7	28	SE	3	0	1026·1	0	28	+ 5	ESE	4	bc	—	*	23
	Kharkov ...	1028·0	23	E	2	bc	1031·4	+2	25	− 2	SW	2	0	—	*	23
	Kishinev ...														*	
	Elisabetgrad ...	1025·7	19	SE	2	0	1027·8	0	30	+ 3	ESE	3	f	—	*	19
	Nicolaiev ...							*							*	
	Odessa														*	
	Tarkhankout...	1024·7	45	NE	3	0		*							*	
	Soukhoum ...														*	
Mediterranean.	Venice	995·9	52	NE	2	r	992·0	*	48	+ 3	NNW	2	0	7	59	45
	Pesaro	995·7	51	—	0	c	997·3	*	54	0	SSW	2	0	4	59	51
	Rome	995·1	61	SE	3	0	1001·0	*	55	− 6	SW	3	0	9	68	55
	Viesti	999·0	64	SE	6	b	1001·4	*	59	− 2	SW	6	b	8	61	55
	Brindisi	1007·1	66	SE	4	0	1007·7	*	63	+ 2	S	3	c	-	68	61
	Cagliari	998·6	63	NE	5	r	1006·9	*	61	0	WNW	4	r	20	68	50
	Palermo	1001·6	73	ENE	5	0	1010·9	*	55	− 2	E	3	b	4	77	52
	Tripoli	1010·8	73	SSW	1	b	1017·3	*	54	−10	W	2	b	-	84	54
	Algiers	1009·2	55	SW	1	b	1009·5	0	52	− 3	SW	3	0	63	57	43
Sweden.	Hernösand ...	1020·7	28	—	0	0	1019·8	*	32	+ 4	—	0	0	*	*	*
	Stockholm ...	1015·7	34	E	4	S	1016·0	*	36	+ 2	ESE	2	0	*	*	*
	Wisby	1014·0	34	ESE	2	0	1021·7	*	39	+ 3	ESE	2	0	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	997·1	28	0	—	0	b
Reykjavik	995·0	34	− 2	E	1	b
Vestmanna	993·1	39	− 2	E	5	c
Seydisfjord	998·3	36	− 1	—	0	c
Thorshavn	993·5	44	+4	SE	6	r

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night 18h.-9h.	Day. 9h.-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	Trace	10	48	33	bcp	bcp	0·4
	Banff	6	-	44	37	bc	bc.c	0·3
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	-	-	43	35	c.bc.c	c.bc.b.	2·0
	Skegness	Trace	-	45	35	b	b	6·2
Eng. N.W.	Morecambe	4	2	40	39	-	-	1·6
	Southport	2	1	48	37	b.bc.c	c.or.c	3·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	49	38	c.bc	b.bc	3·8
Wales.	Rhyl	Trace	-	49	36	dp	o.bc.c	4·7
	Colwyn Bay...	*	*	49	41	c	chp	4·8
	Llandudno	*	*	49	42	r	bcp	3·3
	Aberystwyth	*	*	48	38	r.o.c	c.b.o	2·3
	Tenby	1	-	43	38	bc.c	bc	4·3

	STATIONS.	Rainfall. Night 18h.-9h.	Day. 9h.-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	-	-	51	36	b.bc	b.c.m.	6·3
	Felixstowe	Trace	-	48	35	b.c.m	b.c.m	6·3
	Walton-on-Naze							
	Southend-on-Sea	-	-	50	38	c.o	c.o.z	2·7
England, S.E.	Margate	-	Trace	52	38	z.b.c.c	c.p.	2·4
	Ramsgate	-	1	52	38	b.c	o.r	2·1
	Hastings	1	-	51	40	dp.b.c.b	b.c	2·1
	Eastbourne	2	4	52	40	b.c.b	o.p.b.c.r	4·3
	Seaford	*	*	50	40	o	c	1·4
	Brighton	15	1	48	35	dp	c.o	0·4
	Worthing	6	4	46	33	p.	c.p.	0·5
	Littlehampton	3	-	46	36	bc	bc	1·3
	Bognor	*	*	46	37	bc	bc	1·5
	Bournemouth	2	-	47	33	o.c	o.b.	1·2
England, S.W.	Weymouth...	*	*	51	42	z.o.b.a	b.c.z	3·3
	Torquay	2	-	49	38	c	c.b.c.b	1·7
	Paignton	*	*					
	Penzance	8	Trace	51	41	c.p.	b.c	4·0
	Newquay	3	4	48	32	b.c.p	b.c.p.	1·6
	Bude	4	12	50	40	r. o.	c.b	2·5
	Ilfracombe	5	3	50	41	p.c	p.o.c.v	0·8
	Weston-s-Mare	2	-	50	36	b.c.b	b.b.c	4·0

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

22nd & 23rd November 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	7·28	11·39	3·50
	7·29	11·39	3·49
Greenwich	7·31	11·46	4·1
	7·32	11·46	4·0
Wick	8·18	11·58	3·38
	8·20	11·58	3·36
Valencia	8·14	12·27	4·40
	8·15	12·27	3·9

NOTES ON YESTERDAY'S WEATHER.

The day temperature was rather above the normal in many localities. Rain fell in most districts, but there were no large amounts. Sunshine varied greatly, none in places to seven hours at Yarmouth.

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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‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 328

Thursday
23rd November

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0-12.	Weather.	THIS MORNING. 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.	Past 24 hours. Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	999·8	47	SW	3	bc	999·8	+1	46	+1	SW	4	SW	bc	3	5	48	43	bc	bc	bep.	*
	Deerness (Orkney)	1001·3	46	S	3	c	1003·0	*	44	+3	SW	3	-	bc	3	Trace	46	44	b.bc	c	c.bc	2·2
	Stornoway ...	999·2	48	SW	6	orq	1004·1	+3	47	+2	SW	6	-	cq	5	5	49	44	bc.cqp	op.orq	bc.cqp	0·6
	Castlebay (Barra Isd.)	1002·7	49	SSW	4	r	1006·9	+2	51	+2	SW	4	-	o	4	3	51	46	op.c op	op.r	rh.o b o	0·3
	Glasgow ...	1008·1	46	SW	4	og	1011·2	+2	47	+6	WSW	3	-	b	*	!	48	40	bm.bc	c.op	odqp.b	2·3
	Eskdalemuir ...	1004·9	43	SSW	5	od	1012·4	+4	48	+18	WSW	6	-	o	*	4	48	30	bx.bc	bc.c bc	od.or	3·8
	Malin Head ...	1006·1	48	SSW	5	eq	1009·2	+2	49	+8	SW	4	S	eq	5	1	49	40	bep	beqp	eq	1·5
	Blacksod Point	1006·8	50	SSW	6	om	1009·2	0	51	+4	SSW	4	-	omq	5	4	51	47	cq	cp	omr om	*
	Valencia ...	1014·1	47	SSW	1	b	1014·1	-3	50	+2	S	3	-	o	*	1	52	46	od	od.b	b.bc.o	0·0
	Roche's Point	1014·6	49	SW	2	o	1017·5	*	50	+5	SW	4	-	o	4	!	50	45	op.o	od.o	o b.o	*
	Birr Castle ...	1012·4	48	S	1	c	1014·8	*	49	+7	S	2	-	o	*	-	51	35	c	c	c.o	0·9
	Donaghadee ...	1008·8	47	WSW	4	omqdp	1012·9	+2	50	+12	WSW	3	-	ogm	3	0·2	50	35	bem	bem.og	ogmpd	*
	Liverpool (Bidston)	1014·3	45	SSW	2	b	1017·8	0	50	+9	SW	4	W	oq	3	-	50	41	b	b	c.o	6·8
	Holyhead ...	1013·4	50	WSW	6	ogq	1016·7	+2	51	+7	SW	5	-	omq	5	Trace	52	44	c.bc	bc.c	afr om	5·8
	Pembroke (St Ann's)	1016·9	50	SW	3	ov	1020·4	0	50	+3	SW	3	-	o	3	0·2	50	49	bcv	bcv	ogp bc	4·0
	Scilly (St. Mary's)																					
	Falmouth ...	1019·5	46	SSW	3	bz	1022·7	0	51	+12	SSW	5	-	o	*	2	53	38	c.bc b	b.bz	berq ot	6·0
	Jersey (St. Aubin)	1021·0	49	W	2	b	1026·8	*	50	+5	SW	3	-	o	2	-	55	44	bc.b	bc b	b.o	5·0
	Portland Bill ...	1018·9	48	W	4	b	1022·9	+1	52	+5	WSW	4	SW	bc	3	-	52	49	b.bc.	bc.b	b bc	*
	Dungeness ...	1017·5	40	NW	2	b	1025·2	+2	50	+17	WSW	3	SW	c	3	-	51	33	bz	bz	b.bc	*
	Dover	1019·4	39	-	0	b	1024·7	+1	48	+12	SW	4	SW	bc	3	0·2	48	35	b	b	b.bc	7·4
	Wick	1002·1	47	SW	3	bc	1003·8	+1	45	+6	SW	3	-	bc	3	-	48	38	bm.cm	c.bcm	omq bc	*
	Nairn	1002·6	46	SSW	1	eq	1005·0	*	47	+6	SSW	3	-	bc.	2	-	48	39	c.bc	bc.c.	beq	3·8
	Aberdeen	1005·7	44	SSW	2	c	1008·6	+3	44	+10	S	2	-	b	3	-	47	33	bz	bz bc.c.	c bc.b	3·9
	Leith	1008·1	47	SW	2	o	1010·3	-2.	49	+9	WSW	2	W	b	3	-	51	39	bc.o.c	c.bc.o	o.b.bc.b	*
	Tynemouth ...	1010·6	43	SW	2	bm	1013·1	+2	50	+12	-	0	-	om	3	1	50	37	bcm	bm	omr	*
	Spurn Head ...	1014·0	43	W	4	bcm	1018·1	+1	44	+8	WSW	5	-	eq	4	-	45	36	f	f.bcm	beq	3·5
	Yarmouth ...	1016·2	39	W	2	b	1020·7	+1	41	+6	WSW	3	-	bc	2	-	44	34	f.bcm	bcm.bm	bm.	3·8
	Clacton-on-Sea	1017·4	41	WNW	2	bc	1022·8	+2.	44	+11	W	2	NW	c	2	-	46	32	bm	bm.bc.	bc bm.c	6·0
	Nottingham ...	1015·6	40	SW	2	b	1019·2	*	46	+14	SW	3	SW	c	*	-	48	32	f.c.bm.	bm	b.	8·3
	Benson (Oxon.) ...	1017·3	37	SW	2	b	1022·1	+2.	47	+12	SSW	3	-	o	*	-	47	33	b	b	bc.o	*
	Sth Farnborough	1018·5	37	WSW	2	b	1022·4	+2.	49	+16	SSW	3	-	o	*	Trace	49	34	bc.b.	b	b.o	7·2
	London (Kew Obsy.)	1018·6	41	SW	2	bm	1023·3	+2	48	+14	SW	3	-	o	*	Trace	48	34	omx.bfx	b.bm.	bm.o	5·9
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	?1007·7	27	WNW	3	bc	1008·8	0	27	+4	SE	1	-	b	2	*	28	23				
	Bodö	1005·2	37	E	4	c	1000·6	-1	37	+5	E	1	-	o	1	-	37	30				
	Christiansund ...	1002·3	43	W	1	r	999·5	-2	43	-3	W	3	-	c	3	2.	46	39				
	Skudesnaes ...	1005·2	41	-	0	o	?1005·3	-1	46	+5	SW	3	-	r	4	6	46	37				
	Færder (X'tania Fjord)	1003·8	37	NNE	4	o	1007·5	0	39	+3	WSW	2	-	bc	1	6	39	34				
	The Scaw (Skagen)	1001·0	41	NE	2	r	1009·1	+1	39	-2	W	1	-	b	2	1	43	36				
	Blaavands Huk	1005·0	43	NNW	4	c	1014·7	+3	46	+5	WSW	3	-	o	2	2.	46	39				
	Copenhagen ...	998·1	39	SE	2	o	1013·3	+6	41	0	WNW	3	-	c	*	1	41	39				
	Bornholm ...	997·9	41	SSW	7	r	1010·4	+8	41	+2	WNW	9	-	o	2	8	43	39				
FRANCE, &c.	The Helder ...	1013·3	48	WNW	4	bc	1020·8	+1	48	0	SW	3	-	bc	2	-	48	46				
	C. Gris Nez ...	1008·3	47	WNW	3	c	1019·7	?+2.	50	+5	WSW	5	*	c	5	-	48	45				
	La Hêve	?	47	WNW	3	c	?	*	45	-1	SW	4	*	bc	4	-	50	43				
	Brest (St. Mathieu)	1022·3	50	W	2	c	1025·6	0	50	+6	S	4	*	b	3	-	52	43				
	Rochefort (Ile d'Aix)	1023·7	48	NW	3	b	1030·1	0	40	-5	SE	3	*	b	*	Trace	52	39				
	Biarritz	1022·3	51	-	0	c	1028·7	+3	41	-6	E	2	*	b	2	5	59	39				
	Paris	1020·7	39	NW	1	b	1029·6	+3	28	-9	SSE	1	NW	b	*	-	48	28				
	Belfort							*					*		*							
	Lyons	1020·7	41	NNW	3	o	1030·6	*	38	-2.	NNE	5	*	b	*	1	45	37				
	Nice	1013·3	46	-	0	b	1019·7	+2.	45	+4	SE	3	*	b	2	-	54	39				
	Perpignan ...	1019·8	50	NW	4	b	1026·1	+3	48	+11	NW	4	-	b	*	-	54	37				
	Sanguinaire ...	*	53	NW	3	c	*	*	47	-4	E	3	*	b	4	-	55	41				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1021·0	50	-	0	b	1032·6	+5	36	-3	-	0	-	f	*	-	52	36				
	Lisbon																					
	Azores (Horta) ...	1009·3	*	SSW	9	f							*									
	Madeira																					
	Gibraltar	1023·0	58	NW	3	b	1026·4	*	50	-11	-	0	*	b	3	-	65	50				
	Malta	*	*	*	*	*	1010·4	+2	59	-7	NW	5	-	r	4	3	72	59				
	Limassol	*	*	*	*	*	1017·0	+3	72	+15	SE	1	-	o	5	-	81	57				
	Alexandria ...	1017·0	70	-	0	b	1018·0	+1	72	+2	-	0	N	bc	0	-	87	70				
	Cairo (Helwan) ...	1016·7	77	N	2	bc	1016·7	+2	63	-10	NW	2	-	f	*	-	86	63				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir
22nd 11 p.m Gust SW 21 m.p.s.
23rd 6a.m Ex WSW 8

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	78	88	0·9	50	37	29	-	bm	bm	bm.om
CITY (Bunhill Row)	*	*	2·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	79	86	2·7	51	36	31	-	o b	b	b.o
CAMDEN SQ. (British Rainfall) ..	73	90	4·5	50	36	32	Trace	bm.b	b	*
HAMPSTEAD (Reservoir)	*	94	6·2	48	36	23	Trace	bc	bm	bc.o2me
S. KENSINGTON (Museum Grounds)	*	90	3·8	51	37	35	-	m.bm	bm	bm.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

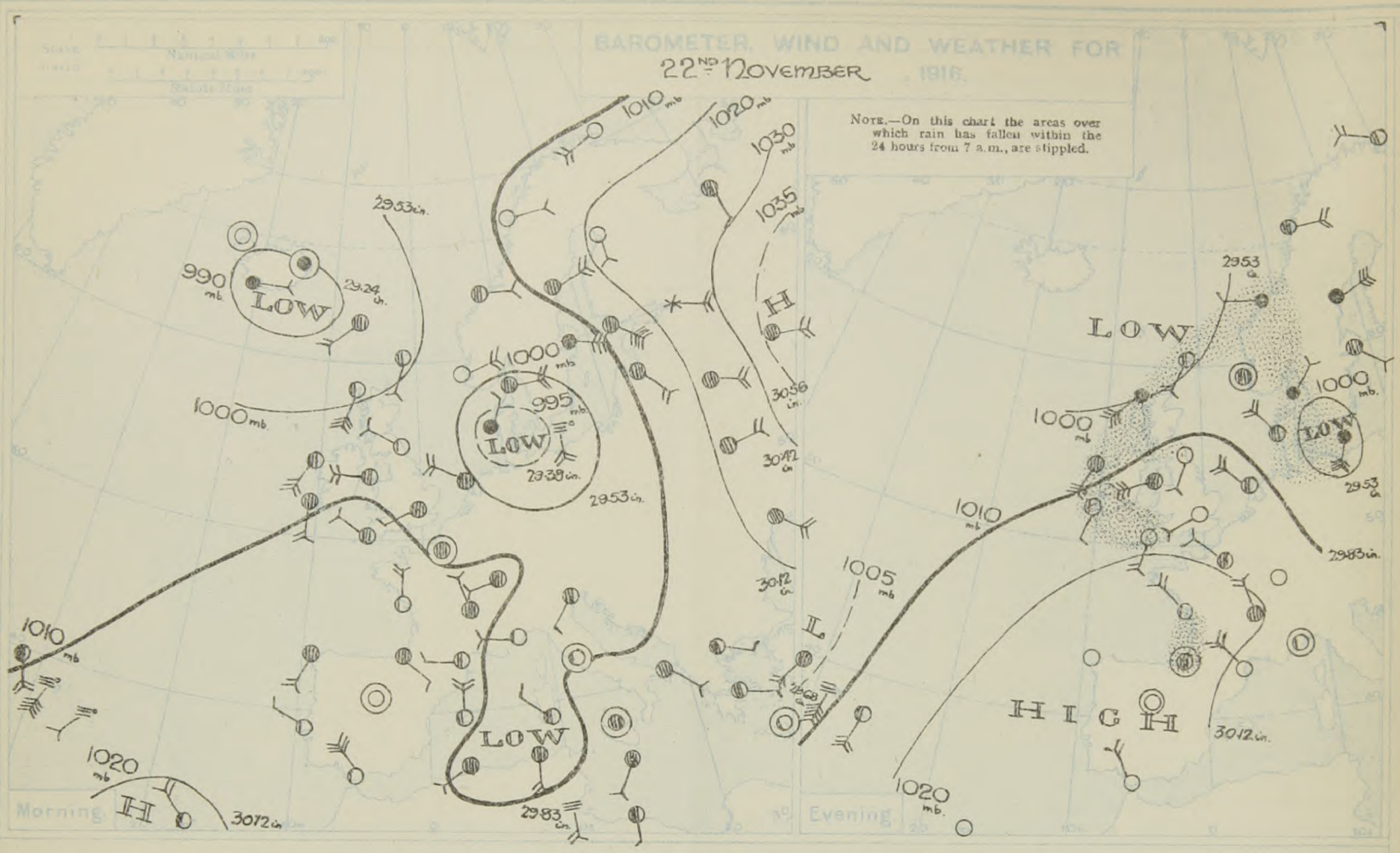
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
323	10·5	19·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON 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.

Warnings Issued at 10h. 45m.

0 a, b } Squally increasing wind between South and West, a gale in places; unsettled, some rain and mist; mild.

1, 2 a, b, 3, 4 a, b, 5 } Squally South-Westerly wind, strong in places; cloudy to dull, some rain and mist; mild.

6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b } Same as No. 0.

11 } Squally Southerly and South-Westerly wind, gale at times; rough sea; fine to dull, some rain, mist or fog; mild.

FURTHER OUTLOOK.

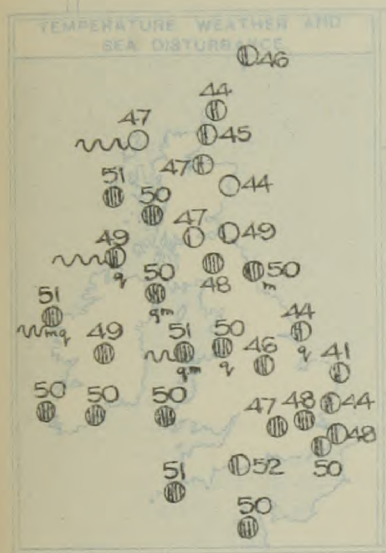
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 23RD NOVEMBER, 1916.

GENERAL INFERENCE.

There are indications of the approach of an Atlantic depression which will occasion unsettled conditions generally.



EXPLANATION.

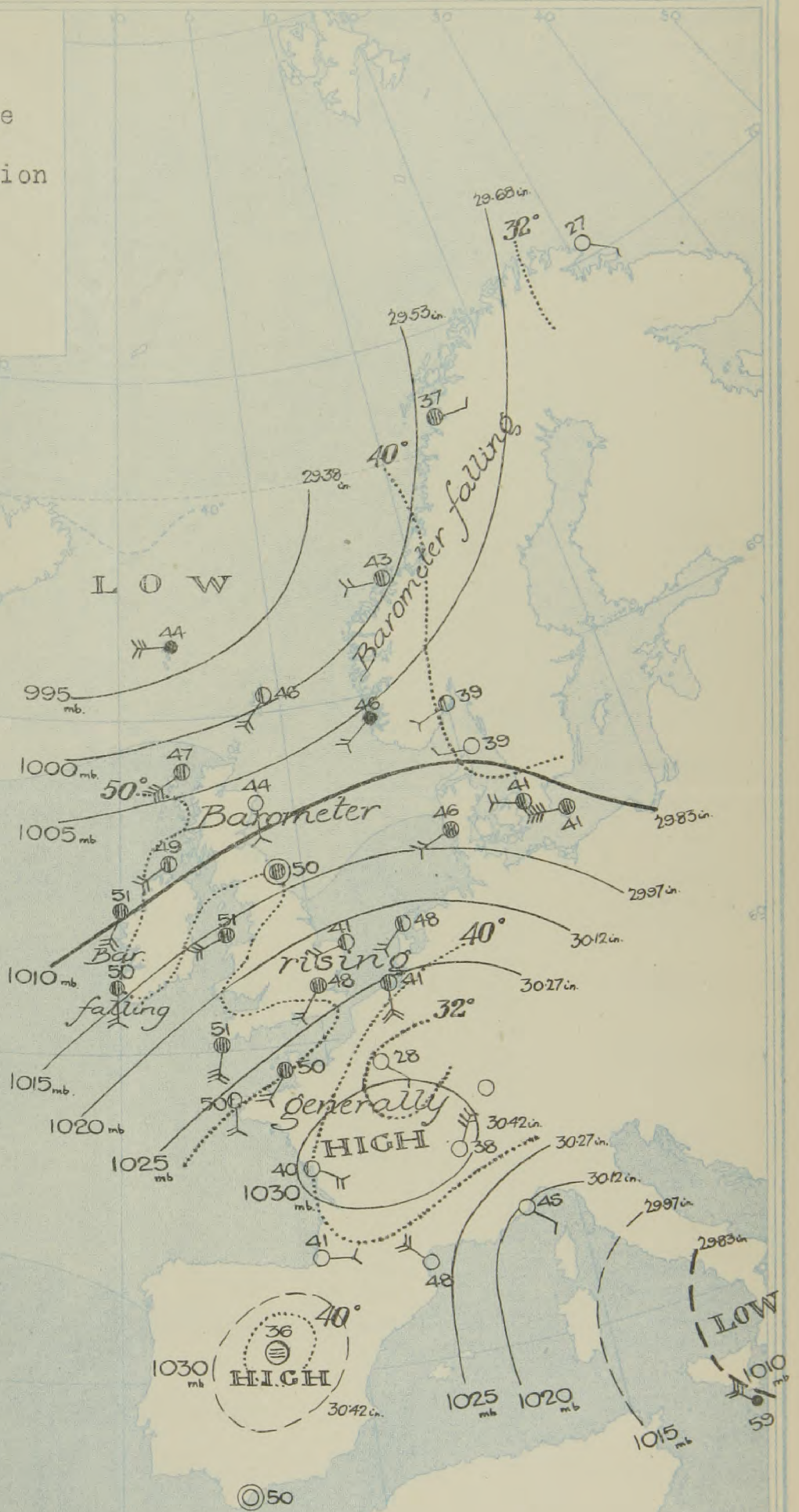
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough High



Scale 1:25,000,000
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

Issue No. 20090. **DAILY WEATHER REPORT.** Thursday, 23rd November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1030·1	7	E	3	c	1026·9	-2	21	-	S	1	0	–	*	5
	Gorki	1023.1	27	S	2	0	10202	?	34	+11	E	3	0	–	*	21
	Velieki Luki ...	10256	28	ESE	2	0	1022.1	*	32	+9	ESE	4	0	–	*	23
	Hangö						1014.1	-4	26	+6	SE	8	0	–	*	27
	Riga						10109	-3	36	+8	SSE	3	0	–	*	28
	Petrograd ...	1027.0	23	SE	4	S	1024·4	-3	23	+4	ESE	4	S	–	25	19
	Moscow	1033·5	16	SE	1	0	1035·8	+1	16	-2	SE	4	0	–	*	14
	Kiev	10230	32	ESE	4	S	1020·8	-1	32	+4	SE	5	0	–	*	27
	Kharkov ...	10328	27	SW	1	0	10326	0	43	+18	SSW	4	0	–	*	16
	Kishinev ...														*	-
	Elisabetgrad ...														*	-
	Nicolaiev ...	10227	39	SE	4	0	1021·9	*	43		SSE	4	0	–	*	32
	Odessa	1021·0	45	SSE	4	0	1020·0	0	45		ESE	4	5	–	*	45
	Tarkhankout...						1020·4	*	46		SSE	6	b	–	*	43
	Soukhoum ...	10264	52	–	0	b	1024·6	?	50		–	0	c	–	*	?
MEDITERRANEAN.	Venice	10015	52	ESE	1	b	1006·7	*	45	-3	SW	1	c	3	62	45
	Pesaro	10037	50	SW	2	c	1008·1	*	46	-8	–	0	b	A	59	43
	Rome	1007.1	54	S	1	c	1010.9	*	48	-7	–	0	b	Trace	64	48
	Viesti	10064	55	SW	1	b	1008·2	*	55	-4	SE	2	0	6	81	54
	Brindisi	1012·4	57	WSW	3	b	1011·3	*	61	-2	SE	2	0	–	68	57
	Cagliari	1008·1	61	NE	4	r	100524	*	57	-4	NW	1	bc	5	66	48
	Palermo	1012·4	57	ENE	1	0	10106	*	54	-1	-	0	0	2	63	46
	Tripoli	1016·4	64	S	1	b	10146	*	57	+3	S	1	c	–	68	52
	Algiers	1008·6	54	SW	1	r	1008·3	+1	55	+3	SW	2	0	16	57	54
SWEDEN.	Hernösand ...	10186	34	NE	2	bc	1003.1	*	32	0	ENE	4	0	×	×	×
	Stockholm ...	10154	39	E	4	0	1006·7	*	37	+1	E	6	r	×	×	×
	Wisby	1009·5	39	E	4	0	1003·5	*	39	0	ESE	4	0	×	×	×

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0–12.	Weather.
Isafjord ...	996.6	28	0	–	0	b
Reykjavik	991.0	37	0	E	2	0
Vestmanna	989.0	39	0	E	2	r
Seydisfjord	990.0	37	+1	–	0	r
Thorshavn	991.8	43	-1	SW	3	0

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature. Max. F.	Temperature. Min. F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
Scotland.	Oban	1	Trace	48	41	o.	cp.	0·5
	Banff	-	-	47	33	bf.	bc.	3·7
	Montrose							
	Carnoustie	*	*					
	St. Andrews	-	-	46	36	b	bc.c	4·3
Eng. N.E.	Harrogate	Trace	-	47	33	b	b .bc	6·0
	Skegness	Trace	-	43	29	fe.b	b	4·7
Eng. N.W.	Morecambe	-	-	48	31	-	-	4·6
	Southport	3	-	49	39	b.bc	bc.b	6·5
Midlands.	Leamington Spa							
	Malvern	-	-	48	39	b.	b.	7·0
	Ross-on-Wye	-	-	51	26	b	b	6·1
Wales.	Rhyl	1	-	57	35	r.o	c.bc.c	5·5
	Colwyn Bay...	*	*	50	41	bc	bc	6·0
	Llandudno	*	*	50	36	c.	b.	5·0
	Aberystwyth	*	*	49	35	r.o.c.	c.	3·0
	Tenby	-	-	47	39	b	bc.c	4·7

	STATIONS.	Rainfall Night. 18h-9h. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
England. E.	Lowestoft	-	-	43	32	o.f.c	c.bc	3·5
	Felixstowe	Trace	-	47	32	f.bc	bc	5·4
	Walton-on-Naze	Trace	-	47	32	bc.f.b	b	6·5
	Southend-on-Sea	-	-	49	32	bz.	b	5·2
England, S.E.	Margate	-	-	46	39	c.bc.b	b.bc.b	4·2
	Ramsgate	-	-	45	36	m.b	m.b	5·2
	Hastings	-	-	49	35	bc.b	b	6·8
	Eastbourne	2	-	49	36	bc.b	bc.b	5·8.
	Seaford	*	*	49	36	bc	b	6·0
	Brighton							
	Worthing	-	-	48	33	b	b	6·2
	Littlehampton	-	-	49	36	b	b	6·9.
	Bognor	*	*	50	34	bc	bc	6·8
	Bournemouth	-	-	51	35	b	b	7·7
England. S.W.	Weymouth	*	*	51	38	z.bc.b	b.bcz	6·3.
	Torquay	-	-	51	35	o.c.bc.b	b	6·1.
	Paignton	*	*					
	Penzance	-	-	53	36	bc	bc	6·9
	Newquay	-	-	52	36	b	b	5·6.
	Bude	-	-	52	36	b	b.	5·7.
	Ilfracombe	1	-	51	42	bc	bc	5·2
	Weston-s-Mare	-	-	51	30	m.b	b	6·3

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

23rd & 24th November, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.29 7.31	11.39 11.40	3.49 3.48
Greenwich	7.32 7.34	11.46 11.47	4.0 3.59
Wick	8.20 8.22	11.58 11.59	3.36 3.35
Valencia	8.15 8.17	12.27 12.28	4.39 4.38

NOTES ON YESTERDAY'S WEATHER.

Mildness was general. Small amounts of rain fell in the north and west. The day was sunny. the records ranging up to 7·7 hours at Bournemouth.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 329

Friday, 24th November

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING. 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 ...	1002·1	48	SW	4	om	986·0	~5	51	+5	SSW	5	–	orq	4	6	51	45	bc.c	c.om.	c.or	*
	Deerness (Orkney)	1002·0	48	S	4	r	987·1	*	50	+6	SSW	4p	~	r	4	6	48	44	bc.c.og	or.	r	0·1
	Stornoway ...	999·2	49	SSW	6	ogp	984·7	-6	52	+5	SSW	7	-	orq	6	17	52	47	c.ogp	ogp.	orq	0·0
	Castlebay (Barra Isd.)	1001·2	50	SSW	5	odp	988·8	-5	53	+2	SW	6	-	r	6	6	53	48	odp	dp.	d.op.r	0·0
	Glasgow ...	1007·0	47	SSW	1	omd	996·5	-6	52	+5	SSW	6	-	ogq	*	2	53	46	c.od	omd.	mdq.op	0·0
	Eskdalemuir ...	?	47	SSW	2	or	1001·1	-4	48	0	SSW	7	-	omr	*	9	51	45	omd.om	omd.or	or.omr	0·0
	Malin Head ...	1000·1	49	S	3	cm	992·2	-5	52	+3	SW	6	-	omqr	5	5	52	47	cx.p.	cm.	omqr	0·0
	Blacksod Point	997·3	52	SSW	7	omd	995·3	+3	52	+1	SSW	8	-	omqp	7	6	52	47	omr	om	omd.om	*
	Valencia ...	1006·3	54	SW	4	o	1007·3	+3	54	+4	SW	6	SW	c	*	24	56	49	or	or.	o	0·0
	Roche's Point	1007·2	53	WSW	4	c	1008·5	*	54	+4	SW	4	-	r	5	17	54	49	ofd	md.	op.orm	*
	Birr Castle ...	1007·1	54	S	2	o	1002·4	*	56	+7	SW	4	-	o	*	8	56	47	or	or.o	odqp	0·0
	Donaghadee ...	1005·0	51	SSW	5	omq	999·7	-3	53	+3	SW	5	-	omqp	4	4	54	48	ogmp	omqp.	ogm.gq	*
	Liverpool (Bidston)	1013·2	49	SE	3	r	1007·0	-2	55	+6	SSE	4	S	o	3	2	56	47	c.o	or	oq	0·8
	Holyhead ...	1008·7	51	SSW	8	omqr	1005·6	-3	52	+1	SSW	7	-	fdq	6	9	53	50	o.c.ok	omqr.	or.bcd.	0·0
	Pembroke (St. Ann's)	1013·1	52	S	7	orq	1011·9	0	53	+3	SW	5	-	oqp	8	6	53	49	ogdp	oq.oqr.	oqp fr	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	1017·5	53	S	8	r	1016·4	0	54	+3	SW	7	-	dq	*	10	54	50	o.c.oq	oq.orq	rq.dq	0·0
	Jersey (St. Aubin)	1025·6	52	S	3	o	1022·1	*	53	+3	S	4	-	o	3	2	54	49	o.c.bc	bc.c.o	or.o	2·3
	Portland Bill ...	1019·6	52	SSW	6	or	1016·7	-1	54	+2	SW	6	-	od	5	1	54	50	bc.c	c.or	c.od	*
	Dungeness ...	1025·0	51	SW	5	c	1019·3	-1	51	+1	SSW	6	-	o	5	1	52	50	cp.c	c.o.c	bcqp.o	*
	Dover	1025·1	50	SW	5	c	1019·8	-1	50	+2	SSW	7	S	o	6	2	53	47	mp.o.c	c.	op.r	0·5
	Wick	1002·9	48	SSW	3	r	?986·7	-4	50	+5	SW	4	-	o	3	1	51	44	bc.og	ogr	omgp	*
	Nairn	1003·0	50	SW	1	cg	988·4	*	53	+6	WSW	4	-	cgq	3	2	53	46	cg.o	od.c	cp.rq	0·0
	Aberdeen	1006·8	50	S	4	o	992·5	-6	53	+9	SSW	6	-	oq	3	1	55	43	bz.bc.o	oz.p.	oqp	0·0
	Leith	1007·4	49	SW	1	o	996·4	-3	54	+5	SW	6	-	r	4	1	57	49	b.bc.c.o	odg.o	od.cqr	*
	Tynemouth ...	1012·4	50	S	2	ogm	1001·3	-4	54	+4	SSW	5	W	cmq	4	–	54	50	om	ogm.	cmq	*
	Spurn Head ...	1018·6	47	WSW	5	oq	1009·9	-1	52	+8	SW	6	–	cq	5	3	52	39	c.oq	oq	oqr	0·0
	Yarmouth ...	1021·8	50	WSW	5	om	1016·2	-2	50	+9	W	6	–	oq	4	2	52	41	bcm	bc.om.	p.omq	2·0
	Clacton-on-Sea	1023·8	47	SSW	4	o	1017·9	-2	48	+4	SSW	4	SW	o	3	1	52	44	c.bc	bc.c.og	oqp	2·3
	Nottingham ...	1017·6	50	SW	4	r	1010·7	*	55	+9	SW	6	SW	c	*	3	55	45	c.o	o	r.o	0·0
	Benson (Ozon.) ...	1020·9	49	SSW	4	o	1015·0	-2	53	+6	SSW	5	–	o	*	0·4	53	47	o	o.	o	*
	Sth Farnborough	1021·9	49	SW	5	o	1016·4	-2	53	+4	SW	6	–	o	*	1	53	49	o.cr.o	od.o	or.qr	0·1
	London (Kew Obsy.)	1023·1	50	SW	4	o	1017·2	-2	52	+4	SW	5	–	o	*	1	53	48	o.om.o	o	o.or.o	0·2
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1002·3	30	SE	3	o	992·2	-5	32	+5	SE	1	-	o	2	*	32	25				
	Bodö	997·0	32	E	4	s	993·5	-2	39	+2	E	2	-	c	1	–	39	28				
	Christiansund ...	1002·3	45	NW	3	c	992·6	-1	48	+5	–	0	-	o	3	4	45	39				
	Skudesnaes ...	1010·6	46	S	3	c	999·0	-3	46	0	S	6	-	r	5	8	48	45				
	Færder (X'tania Fjord)	1011·3	43	WSW	4	b	1007·5	-4	46	+1	SSW	6	-	m	3	1	43	37				
	The Scaw (Skagen)	1013·1	39	WSW	2	bc	1011·5	-3	46	+7	SSW	4	-	m	4	-	46	39				
	Blaavands Huk	1018·4	46	W	2	o	1015·3	-5	45	-1	SSW	6	–	r	5	1	48	43				
	Copenhagen ...	1018·1	46	W	3	r	1020·6	-1	45	+4	SW	3	–	o	*	1	48	41				
	Bornholm ...	1017·6	46	W	9	r	1021·7	-1	45	+4	WSW	8	-	m	2	2	45	41				
FRANCE, &c.	The Helder ...	1023·4	48	SSW	4	o	1018·1	-3	46	-2	SSW	7	–	o	4	-	50	46				
	C. Gris Nez ...	1025·0	50	WSW	5	c	1021·1	-1	48	-2	SSW	7	*	r	6	2	52	46				
	La Hêve	?	46	SSW	5	c	?	*	46	+1	SW	5	*	o	5	-	50	43				
	Brest (St. Mathieu)	1022·9	53	S	6	o	1022·3	0	52	+2	SW	4	*	f	3	7	55	46				
	Rochefort (Ile d'Aix)	1030·6	46	SSE	3	bc	1029·0	0	44	+4	S	3	*	bc	*	-	50	40				
	Biarritz	1029·1	46	E	1	bc	1029·1	0	46	+5	SW	1	*	c	2	-	55	41				
	Paris	1030·9	39	SSW	2	b	1029·1	0	34	+6	S	2	-	b	*	-	50	28				
	Belfort	1033·3	39	ENE	4	b	1033·1	*	34		ENE	6	*	b	*	-	45	30				
	Lyons	?1031·9	39	NNW	4	b	1033·2	*	31	-7	–	0	*	f	*	-	47	29				
	Nice	1022·3	50	SE	1	b	1025·6	+1	46	+1	E	2	*	b	3	-	59	41				
	Perpignan ...	1026·3	50	NW	4	b	1027·1	0	45	-3	WSW	2	–	b	*	-	55	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1017·0	*	W	4	r							*									
	Madeira	1025·3	70	E	3	c	1026·4	+1	63	-3	ENE	3	N	b	3	-	73	63				
	Gibraltar	1027·4	57	–	0	m	1026·7	*	54	+4	E	3	*	bc	3	–	66	49				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·7	+3	68	-4	SE	1	–	b	3	-	81	52				
	Alexandria ...	1017·3	70	NNE	3	o	1017·5	+1	72	0	NE	2	NE	bc	1	-	81	70				
	Cairo (Helwan) ...	1015·5	72	NNE	2	b	1016·0	+2	61	-2	–	0	–	b	*	-	82	69				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Glasgow
24th early morning S 8 in Gust

Eskdalemuir
23rd 10p.m. SSW 8
Gust 25 m.p.s.

Blacksod Point
24th 7a.m. SSW 8

Holyhead
23rd 6p.m. - 9p.m. SSW 8

Falmouth
23rd 6p.m. S 8

Dover
23rd Noon - 24th 2a.m. SSW 8
Ex. SSW 9 at 1a.m.

Aberdeen
24th 7a.m. Gusts SSW 19 m.p.s.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	81	92	1·4	56	48	44	1	c	c.o	od.o
CITY (Bunhill Row)	*	*	0·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	71	90	0·3	55	50	35	1	o	o	or.oe
CAMDEN SQ. (British Rainfall) ..	82	91	0·0	54	49	46	1	o	o	*
HAMPSTEAD (Reservoir)	*	97	0·1	52	46	36	1	oma	o	or.
S. KENSINGTON (Museum Grounds)	*	89	0·3	55	50	37	1	b.o.c	c.o	o.or.o†
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

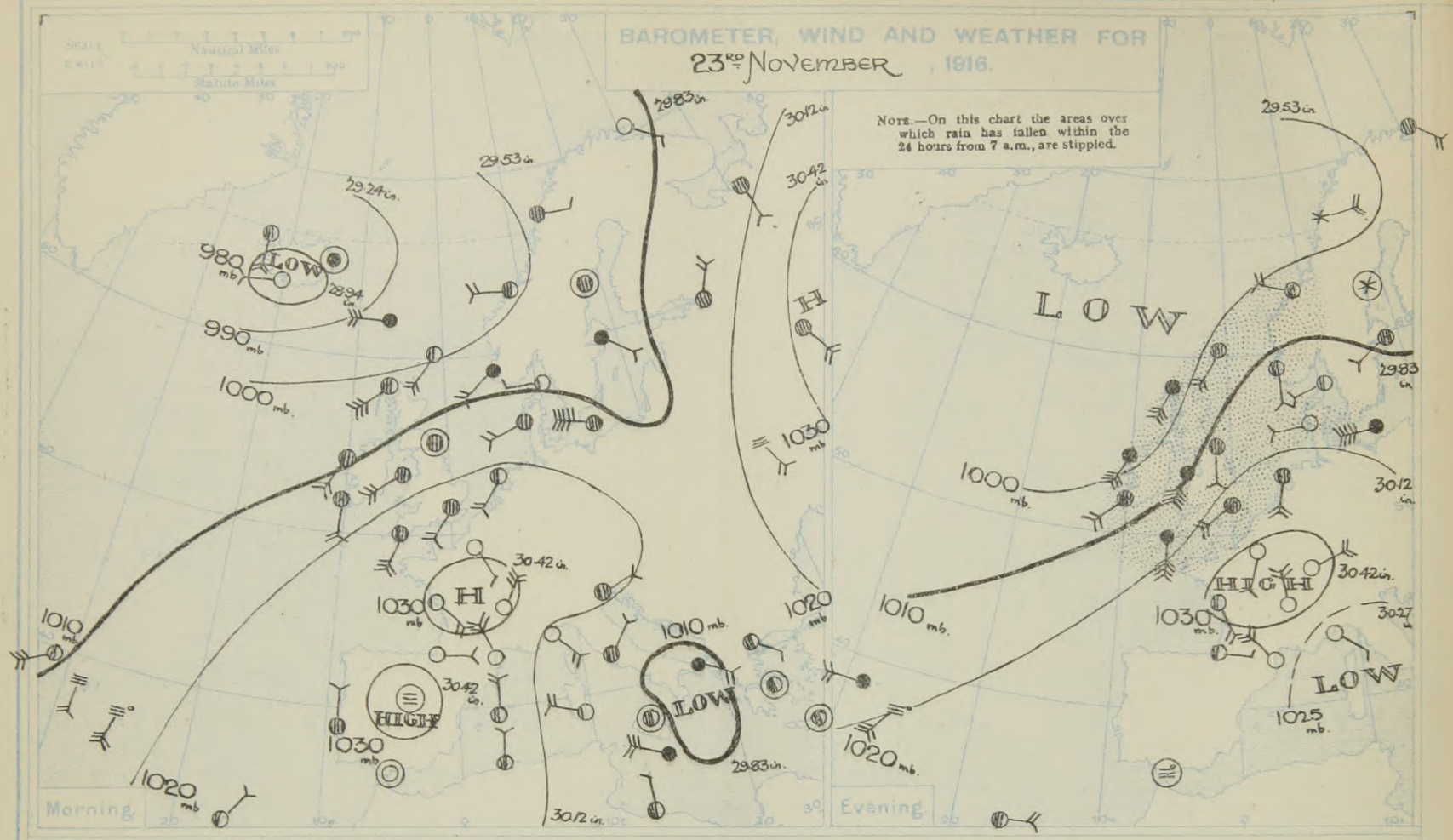
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
222	7·3	21·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 NOVEMBER, 1916.



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.

Warnings issued to
Districts 0,6-10 at 10h45m
Districts 1-3, 5, 11 at 14h.

Squally South-Westerly wind, strong to a gale at times; dull generally, some rain; mild.

Squally South-Westerly wind, strong to a gale at times; high sea; dull, some rain, mist or fog; mild.

FURTHER OUTLOOK.

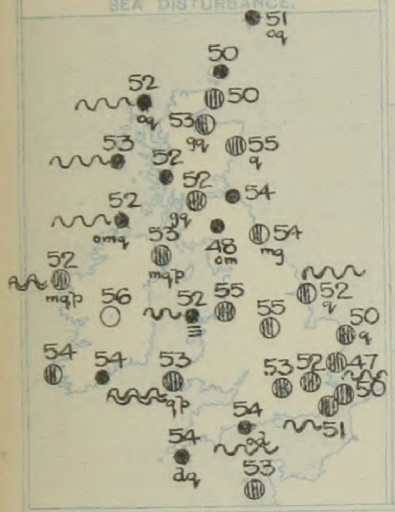
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 24TH NOVEMBER, 1916.

GENERAL INFERENCE.

The unsettled type of conditions will be maintained.

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.

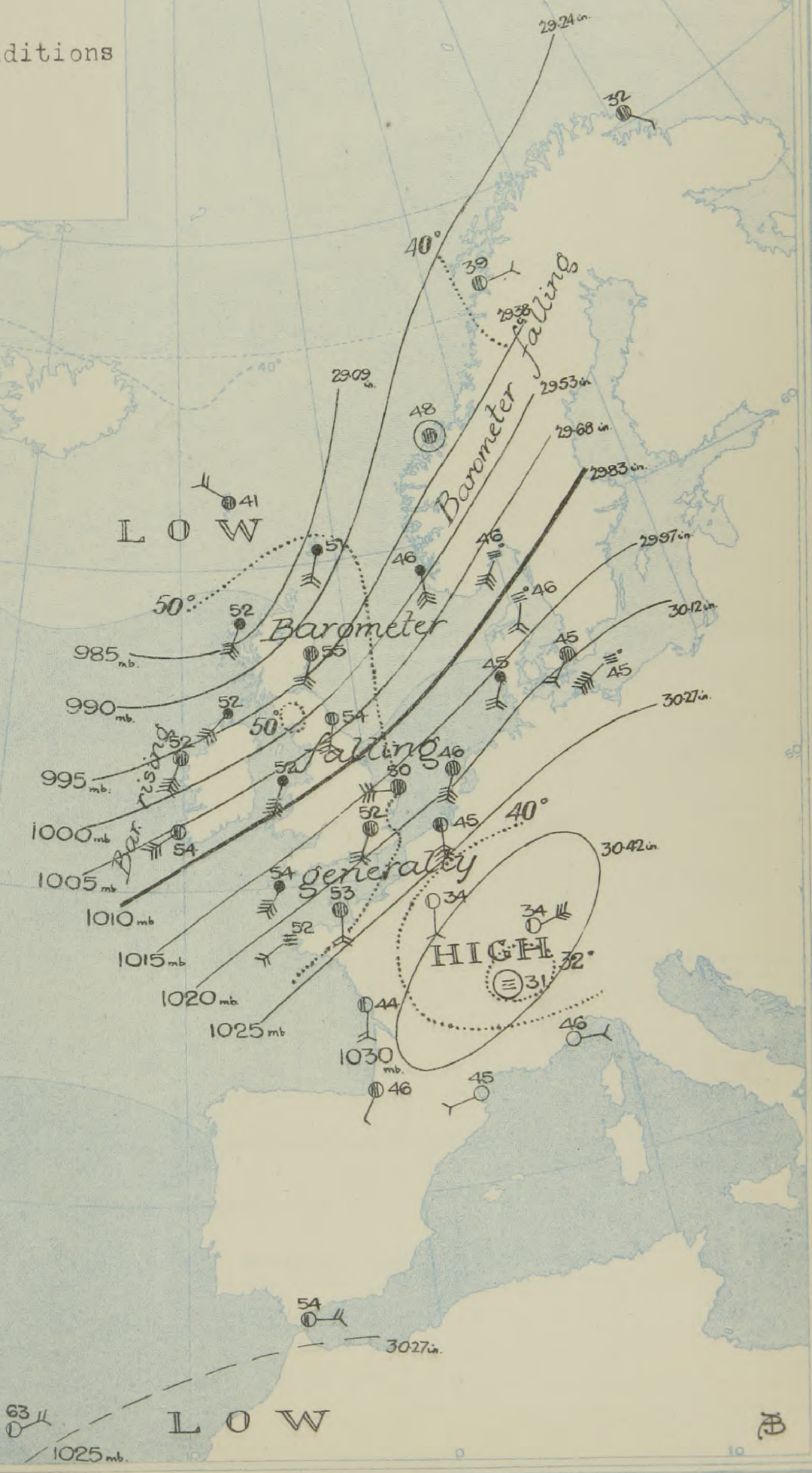
SEA DISTURBANCE.—Rough ~~~. High ≈≈.

SCALE 1 : 2 · 10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.



Issue No. 20091

DAILY WEATHER REPORT.

Friday, 24th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1024·9	25	SW	2	0	1019·1	−2	25	+ 4	S	2	0	—	*	21
	Gorki	1020·3	30	S	5	0									*	
	Velieki Luki ...	1020·3	34	SE	4	0		*							*	
	Hangö														*	
	Riga	1012·7	34	S	3	ƒ									*	
	Petrograd ...	1017·0	34	SE	3	0	1016·7	0	34	+ 11	NNE	3	0	2	34	23
	Moscow	1034·0	23	SSE	3	S	1030·6	+2	23	+ 7	SSE	4	0	2	*	16
	Kiev														*	
	Kharkov ...														*	
	Kishinev ...														*	
	Elisabetgrad ...														*	
	Nicolaiev ...							*							*	
	Odessa														*	
	Tarkhankout...														*	
	Soukhoum ...														*	
MEDITERRANEAN	Venice	1015·3	46	NNE	1	b	1020·4	*	48	+ 3	ENE	2	0	—	50	45
	Pesaro	1013·5	50	SW	1	0	1016·6	*	55	+ 9	NE	4	0	4	57	46
	Rome	1011·9	52	—	0	0	1010·9	*	48	0	NE	2	0	2	59	46
	Viesti	1011·4	55	NW	1	0	1008·9	*	54	− 1	W	1	0	13	61	52
	Brindisi	1012·2	59	SE	3	0	1009·3	*	61	0	SE	3	r	Trace	64	57
	Cagliari	1013·4	57	NW	4	b	1013·6	*	54	− 3	NW	3	b	—	64	46
	Palermo	1009·2	54	—	0	0	1012·3	*	54	0	—	0	c	10	61	46
	Tripoli	1009·7	68	—	0	b	1012·1	*	64	+ 7	N	1	c	—	81	52
	Algiers	1018·1	57	NNE	1	c	1022·9	+2	55	0	N	2	c	5	59	54
SWEDEN.	Hernösand ...	1009·3	32	ENE	6	r	1005·7	*	32	0	—	0	0	*	*	*
	Stockholm ...	1004·3	41	SE	2	0	1006·9	*	41	+ 4	SE	2	r	*	*	*
	Wisby	1004·8	43	SSE	2	0	1005·5	*	41	+ 2	SSE	2	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	984·7	43	+ 15	S	4	c
Reykjavik	978·4	36	— 1	—	0	b
Vestmanna	977·3	37	— 2	W	2	b
Seydisfjord	981·2	37	0	—	0	r
Thorshavn	991·4	44	+ 1	W	5	r

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	10	5	51	44	or	o	0.0
	Banff	Trace	-	50	37	bc	bcc	0.7
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	1	-	50	41	o	o	0.0
	Skegness	Trace	-	49	36	o	o	0.0
Eng. N.W.	Morecambe	1	2	50	45			0.0
	Southport	-	3	52	42	o.c.o	or	0.0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	52	43	bc c	c or	0.0
Wales.	Rhyl	-	1	54	44	c o	op	0.0
	Colwyn Bay...	*	*	53	42	bc	bop	0.0
	Llandudno	*	*	55	49	c	c cr	0.0
	Aberystwyth	*	*	54	46	o c	o or	0.0
	Tenby	2	2	54	40	or	r	0.0

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	-	-	52	35	bc. c	c.om	1.3
	Felixstowe	-	-	52	33	c. bc	bc	1.2
	Walton-on-Naze							
	Southend-on-Sea	-	-	53	33	c. bc	bc c.o	2.5
England, S.E.	Margate	-	-	54	40	c.bc.c	c	1.4
	Ramsgate	-	-	51	35	bc	bc. o	0.7
	Hastings	1	Trace	52	40	bc.op	o	0.0
	Eastbourne	Trace	Trace	53	42	op. o	a bc.o	0.0
	Seaford	*	*	53	38	c	o	0.3
	Brighton	Trace	-	52	36	o c o	o	0.7
	Worthing	1	-	52	34	c.bc	c	0.5
	Littlehampton	1	-	50	40	o	o	0.1
	Bognor	*	*	50	38	c	c	0.0
	Bournemouth	-	-	53	38	c	c	0.3
England, S.W.	Weymouth...	*	*	54	45	c	c. or	0.0
	Torquay	Trace	1	53	41	o	or	0.0
	Paignton	*	*					
	Penzance	2	3	54	49	o	orm	0.0
	Newquay	2	1	54	38	o	oqr	0.0
	Bude	2	1	54	41	o	b	0.0
	Ilfracombe	3	1	54	45	o	or	0.0
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

24th & 25th November, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.31 7.33	11.40 11.40	3.48 3.47
Greenwich	7.34 7.36	11.47 11.47	3.59 3.58
Wick	8.22 8.24	11.59 11.59	3.35 3.38
Valencia	8.17 8.19	12.28 12.28	4.38 4.37

NOTES ON YESTERDAY'S WEATHER.

Mildness became very marked in all districts. Rain was general, 24 mm. at Valencia. As a rule there was no sunshine or very little. A South-Westerly gale was felt in various localities.

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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‡ The barometric change is expressed in half millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 330

Saturday, 25th November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0–12.	Weather.	THIS MORNING: 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 ...	991·9	45	NW	5	bc	987·8	-9	45	-6	SSW	5	-	cq	4	16	51	44	or	cp.bc	cqp	*
	Deerness (Orkney)	996·6	43	WNW	4	b	987·8	*	43	-7	SW	4	-	o	4	5	50	42	r.o	r.o.c.bc.b	o.c.bc.bc	0·0
	Stornoway ...	999·0	43	SW	4	cq	988·7	-2	42	-10	SW	4	-	bc	4	14	52	41	or.bcq	bc.cq	bcqp	1·6
	Castlebay (Barra Isd.)	1000·2	48	W	5	c	992·1	-1	46	-7	WNW	4	W	c	4	8	53	46	r.o.c.o	o.t.o.c	cl.sr.c	0·4
	Glasgow ...	1006·8	46	W	4	b	994·9	-5	45	-7	SW	4	-	od	*	16	53	44	o.cqp	or.c	bp.ogr	0·3
	Eskdalemuir ...	1009·7	44	SW	4	o	997·1	-5	46	-2	SSW	7	-	or	*	25	52	42	omrq	oqr	or.o.or	0·0
	Malin Head ...	1005·5	46	SW	5	bcq	994·8	-2	45	-7	SSW	4	-	qp	5	12	52	43	bcmqp	b.bqp	omr	1·0
	Blacksod Point	1007·7	49	SSW	7	bcm	994·6	-7	46	-6	SSW	5	SW	cq	6	5	52	45	bcmqp	bcm	orl.qp	*
	Valencia ...	1015·4	52	SSW	4	c	1000·5	-9	48	-6	WSW	5	-	o	5	11	54	47	c.b	c.bc	bc.c.br	5·3
	Roche's Point	1017·4	50	SW	2	b	1004·8	*	51	-3	SW	5	-	o	5	0·3	54	49	c.bc.b	c.bc.b	b.o	*
	Birr Castle ...	1013·8	49	W	3	c	999·0	*	46	-10	SW	1	-	r	*	3	56	45	od.c	c	c.or	4·8
	Donaghadee ...	1008·8	47	W	5	bm	996·5	-5	46	-7	WSW	4	-	ogmqp	4	3	56	45	bcmq	bcmqp	bl.orq	*
	Liverpool (Bidston)	1014·9	45	SW	5	b	1004·9	-5	48	-7	SSE	4	S	o	3	-	58	46	rq	bcq	bc.o	3·4
	Holyhead ...	1014·9	50	W	5	b	1002·0	-7	51	-1	SW	6	-	oqq	5	1	56	49	od.o.c	o.bc.c.b	b.bc.c.o	2·8
	Pembroke (St. Ann's)	1018·8	52	WSW	5	b	1006·6	-8	51	-2	SSW	4	SW	bc	5	1	54	50	oqfgd	o.bc.b	b.bc	1·2
	Scilly (St. Mary's)																					
	Falmouth ...	1022·2	49	W	2	bc	1000·8	-9	51	-3	SW	4	-	bc	*	1	55	44	dq.c.bc	bc.c.bc	c.b.bc	0·6
	Jersey (St. Aubin)	1023·2	55	WSW	3	omd	1013·9	*	54	+1	SSW	3	-	od	3	7	57	52	omd	omd.ed	oe.r.b	0·0
	Portland Bill ...	1020·2	53	WSW	3	bc	1010·6	-7	53	-1	WSW	4	SW	c	4	1	55	50	od	c.bc	bc.cr	*
	Dungeness ...	1018·9	52	SW	5	b	1012·9	-5	53	+2	SW	4	-	o	4	1	54	50	mqp	qp.bc	r.o.c.bc	*
	Dover	1020·6	50	SW	4	b	1012·3	-6	53	+3	SSW	6	-	o	6	1	53	46	odp	odp	bc.odp	0·0
	Wick	998·4	41	W	2	bc	989·2	-4	44	-6	SW	3	-	o	3	5	52	40	omqr	or.bc.om	r.omq	*
	Nairn	1000·0	43	W	1	bc	990·1	*	44	-9	WSW	4	-	ouq	3	7	53	39	ouq.bc	bc.c	qp.r.c	0·4
	Aberdeen	1002·0	45	SW	3	c	992·4	-3	46	-7	SSW	4	-	r	3	1	56	42	o.bcq	cqp.b	c.b.oqp	2·4
	Leith	1005·5	47	WSW	4	c	995·2	-4	47	-7	WSW	5	-	r	4	9	56	46	r.op.cq	o.cp.o.c	c.oqr	*
	Tynemouth ...	1007·4	50	WSW	6	bq	999·5	-6	48	-6	SSW	4	W	cm	3	-	59	47	bcq	bcmq	cm	*
	Spurn Head ...	1013·6	58	WNW	6	bc	1007·3	-2	51	-1	SW	5	-	bcq	5	-	57	47	cq	bcq	bc	0·0
	Yarmouth ...	1015·3	55	W	3	bc	1012·4	-3	44	-6	SW	4	-	o	3	-	57	40	o.cm	o.cm.bc	bc.om	0·0
	Clacton-on-Sea	1017·7	50	SW	2	bc	1012·5	-5	46	-2	S	2	-	r	2	0·3	51	42	oq	og.bc	bc.b.od	0·0
	Nottingham ...	1016·0	47	SW	2	b	1007·5	*	42	-13	SW	4	SW	b	*	0·2	58	41	c.o	p.o.c.b	b	0·1
	Benson (Oxon.) ...	1018·3	49	WSW	2	o	1010·1	-9	47	-6	S	3	-	r	*	0·2	57	40	o	o	bc.od	*
	Sth Farnborough	1019·2	49	WSW	3	b	1010·1	-10	50	-3	S	3	-	odm	*	1	56	40	od.o	or.o.c.bc	b.or.dm	0·0
	London (Kew Obsy.)	1019·7	52	WSW	3	b	1010·6	-10	49	-3	S	2	-	om	*	0·4	57	41	o	o.b	b.omr.om	0·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	990·1	27	NW	3	b	980·0	-5	37	+5	SE	1	-	o	2	*	28	19				
	Bodö	980·4	41	SW	4	r	979·3	+5	41	+2	SW	9	-	o	5	25	41	36				
	Christiansund ...	977·7	48	-	0	o	992·3	+1	48	-5	W	5	-	c	4	12	50	39				
	Skudesnaes ...	990·1	45	WSW	9	o	999·5	-3	46	0	S	4	-	o	5	12	48	43				
	Færder (X'tania Fjord)	993·0	48	S	8	m	1002·9	+3	45	-1	WSW	6	-	b	4	8	48	45				
	The Scaw (Skagen)	1002·3	46	SSW	6	r	1006·4	0	45	-1	SW	3	-	o	5	7	52	43				
	Blaavands Huk	1007·9	48	SSW	8	o	1011·9	-1	45	0	SW	2	-	c	4	Trace	50	43				
	Copenhagen ...	1011·9	46	WSW	5	o	1013·7	+3	46	+1	W	3	-	m	*	-	50	45				
	Bornholm ...	1014·7	43	SW	10	m	1014·3	+3	45	0	WSW	8	-	m	2	2	46	41				
FRANCE, &c.	The Helder ...	1015·3	48	SSW	7	o	1013·6	-5	46	0	S	4	-	o	3	Trace	50	45				
	C. Gris Nez ...	1020·2	58	SW	5	f	1018·9	-9	51	+3	S	5	*	m	5	2	55	48				
	La Hève	?	46	SW	3	f	?	*	53	+7	S	3	*	r	3	4	52	46				
	Brest (St. Mathieu)	1024·7	54	W	3	f	1015·3	-6	54	+2	W	3	*	r	3	11	55	52				
	Rochefort (Ile d'Aix)	1028·6	54	S	3	o	1021·6	-3	53	+9	SSW	4	*	c	*	5	54	43				
	Biarritz	1030·1	55	-	0	c	1023·3	-3	52	+6	SE	2	*	c	2	-	61	46				
	Paris	1026·6	48	SW	3	o	1018·6	-5	48	+14	S	3	-	o	*	1	48	32				
	Belfort	1030·4	39	-	0	b	1026·4	*	34	0	W	3	*	c	*	-	48	30				
	Lyons	1032·7	32	-	0	f	1027·4	*	27	-4	-	0	*	f	*	-	34	25				
	Nice	1022·7	48	ENE	3	b	1025·1	-2	47	+1	E	3	*	b	3	-	59	43				
	Perpignan ...	1027·9	50	SW	1	b	1026·0	-2	30	-15	W	1	-	b	*	-	64	30				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1029·6	61	W	1	c	1024·4	-1	59	+5	SSW	5	-	c	2	?	63	54				
	Madrid	1028·8	52	SSW	1	b	1029·5	-2	36	.	-	0	-	b	*	-	55	36				
	Lisbon																					
	Azores (Horta) ...	1023·4	*	SSW	6	f							*									
	Madeira																					
	Gibraltar	1026·4	58	E	2	b	1029·7	*	54	0	E	3	*	bc	2	-	66	49				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·6	+1	63	-5	SE	1	-	b	3	-	82	50				
	Alexandria ...	1017·1	70	NE	3	b	1017·5	+1	72	0	NE	2	-	b	1	-	79	68				
	Cairo (Helwan) ...	1015·3	73	NE	4	b	1015·4	+1	63	+2	WNW	2	-	b	*	-	86	61				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Glasgow.
24th 10a.m - 11a.m SW 8 in Gusts.

Eskdalemuir
24th 11a.m - Noon SW 8
Gust SW 29 m.p.s.
25th 5a.m - 6a.m SSW 8

Blacksod Point
24th 7a.m - 5p.m SW 8.
24th 7p.m - 25th 5a.m SW 8
Ex SW 9 at 9p.m; SW 10 at 11p.m

Southport.
24th Noon - 3p.m SW - WSW 8
Gusts SW 25 mps

Dungeness.
24th 9a.m - 4p.m SW 8

Dover
24th 10a.m SSW 8

Aberdeen.
24th 1p.m Gusts SW 24 mps occasionally
24th 1.35p.m W8 Gust 26 mps
25th 5a.m Gust SSW 23 mps.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Temperature: Min.	Temperature: Min. on Grass	Rainfall.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	98	0·0	57	42	34	1	o	o.bc	b.od.o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	86	88	0·0	58	44	33	1	oe.od	o.bc	b.o
CAMDEN SQ. (British Rainfall) ..	89	92	0·0	58	43	38	1	o	od.o	*
HAMPSTEAD (Reservoir)	*	97	0·0	55	41	27	1	oe.bc	b	bc.od
S. KENSINGTON (Museum Grounds)	*	91	0·0	57	45	39	1	o	o.bc	bm.od.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

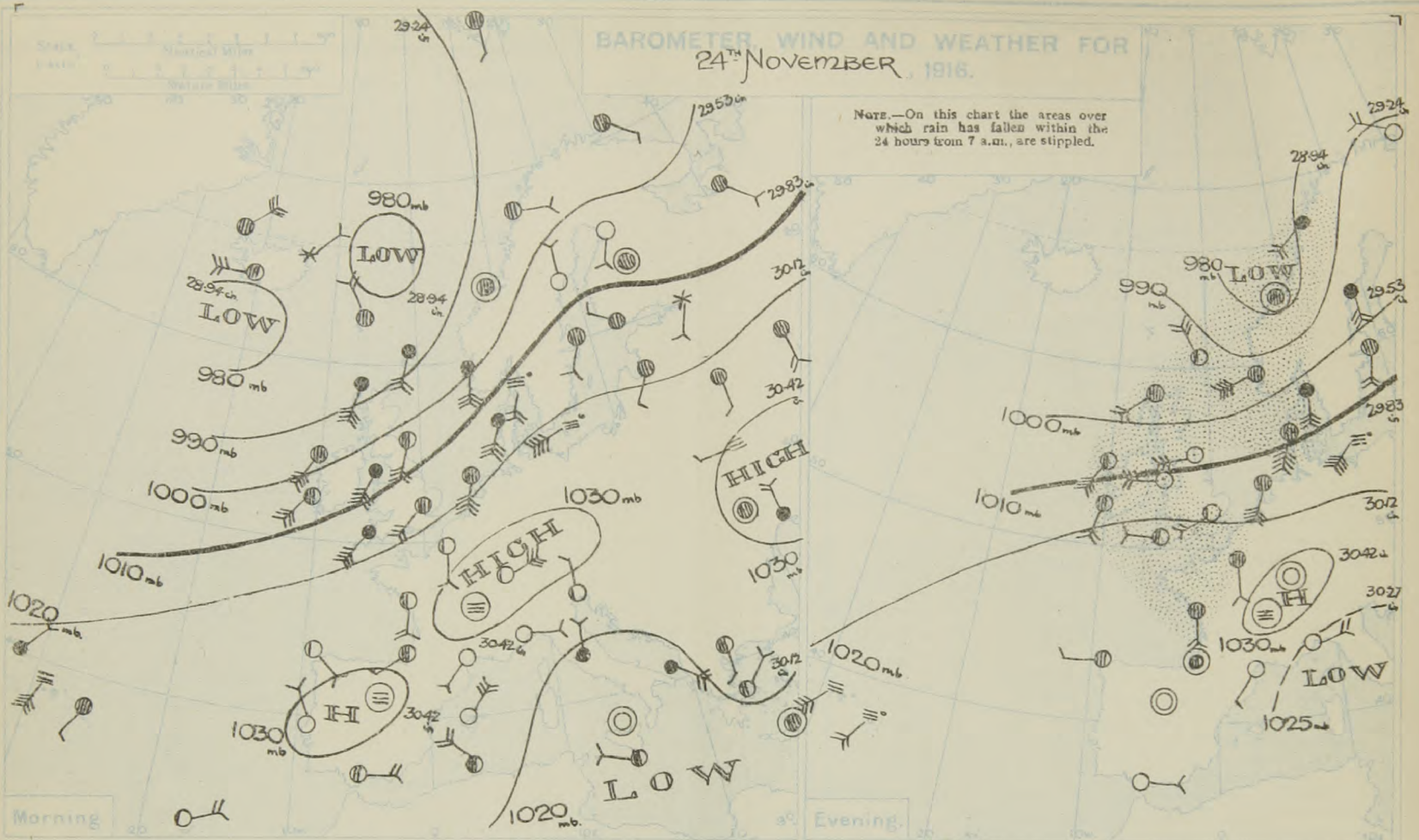
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
90	3·0	10·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* Not received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 24TH NOVEMBER, 1916.



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.

Warnings issued to
Districts 0-2, 6-10 at 3h.
Districts 3, 5, 11 at 8h.

Squally South-Westerly wind, strong to gale at times in places; dull, unsettled, some rain; mild.

Squally South-Westerly wind, strong to gale at times; rough sea; dull, some rain, mist or fog; mild.

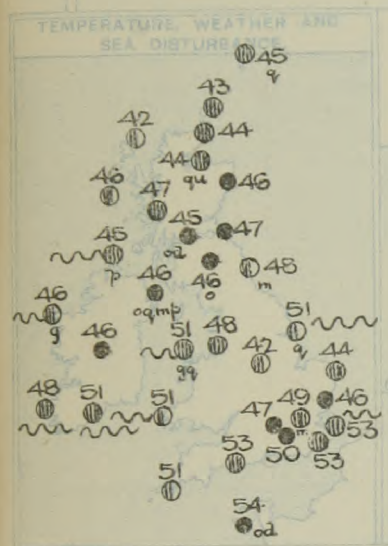
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 25TH NOVEMBER, 1916.

GENERAL INFERENCE.

The situation remains of a very unsettled type all over the British Isles.



EXPLANATION.

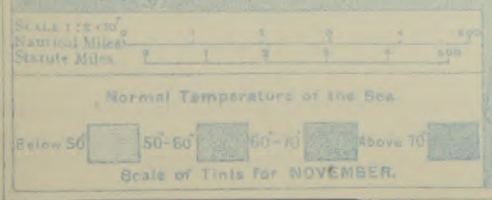
BAROMETER.—Isobars are drawn for intervals of five millibars.

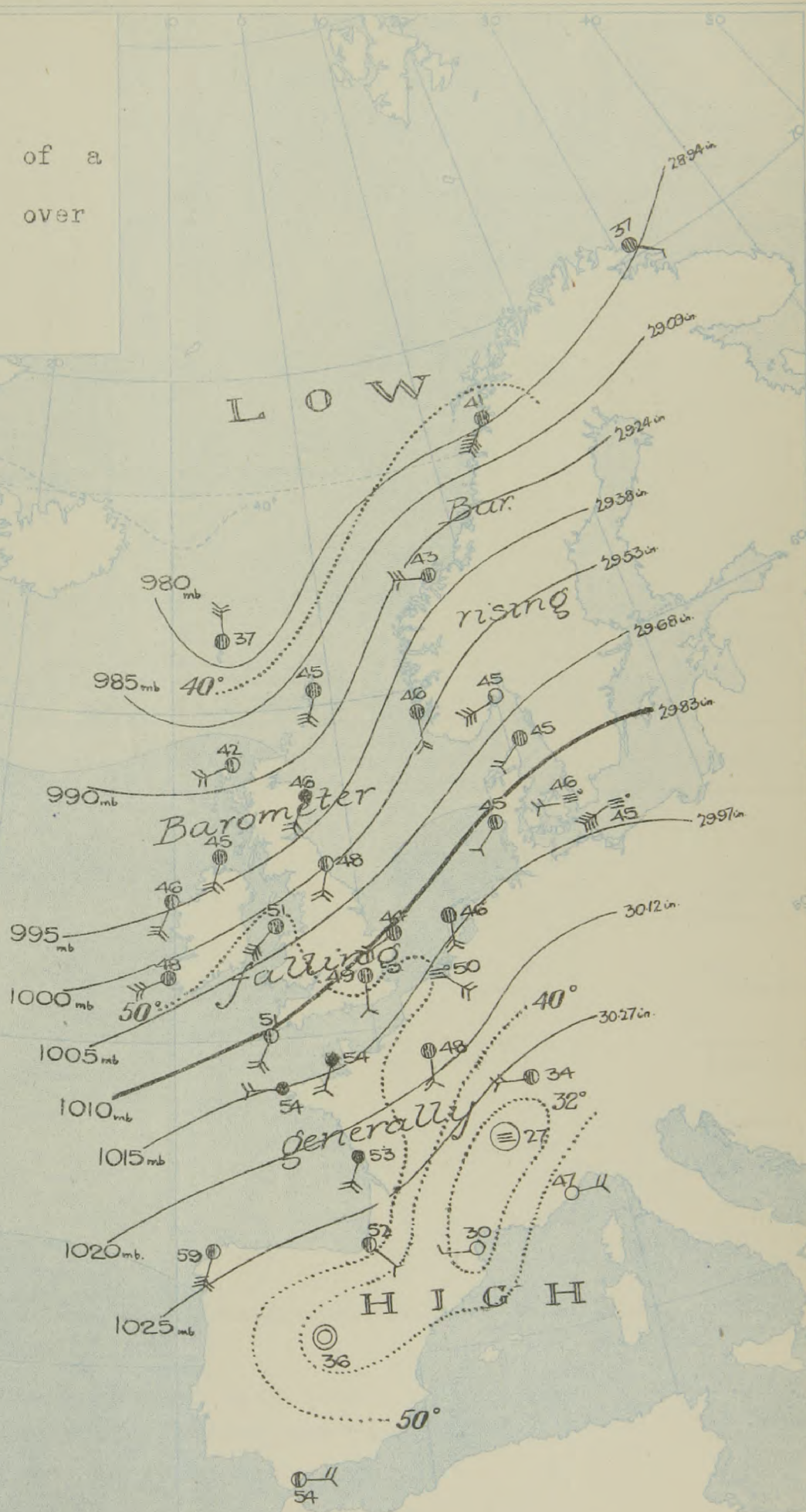
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 ≈≈.





Issue No. 20092

DAILY WEATHER REPORT.

Saturday, 25th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rain fall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
Russia. 7 a.m. and 9 p.m. Local Time.	Archangel ...						1006.4	−5	28	+3	SE	2	0	—	*	25
	Gorki	1017.1	34	S	1	b	1021.4	—	36	-	S	1	0	—	*	27
	Velieki Luki ...	1016.2	34	SE	2	r	1019.0	*	37	-	SSW	3	r	.4	*	34
	Hangö						1012.4	+3	37	-	-	0	0	1	*	36
	Riga	1012.8	39	WSW	3	r	1018.4	+2	39	-	SW	1	0	2	*	37
	Petrograd ...	1012.0	34	S	3	0	1011.1	+1	34	0	WSW	2	S	3	34	32
	Moscow	10247	32	SSE	3	0	1022.3	−1	36	+13	S	3	0	—	*	23
	Kiev	10292	34	W	2	f	1031.0	0	36	+4	—	0	f	—	*	32
	Kharkov ...	1031.0	34	SE	1	0	1031.1	0	37	+9	—	0	0	—	*	28
	Kishinev ...	10276	45	E	2	0	1031.1	+3	41	-	-	0	0	—	*	41
	Elisabetgrad ...	10302	34	ESE	1	0	1031.6	+1	34	+2	-	0	f	—	*	32
	Nicolaiev ...	10278	37	N	2	0	1030.4	*	37	−2	N	3	r	—	*	32
	Odessa	10279	41	ESE	3	f	1030.7	+2	39	−6	ENE	3	0	5	*	37
	Tarkhankout...	1024.0	46	NE	4	0	1026.6	*	34	−11	NNE	5	0	—	*	34
	Soukhoum ...														*	
Mediterranean.	Venice	1028.2	58	E	2	bc	1025.4	*	45	−3	N	1	b	—	58	43
	Pesaro							*								
	Rome	1017.3	50	N	2	r	1019.4	*	50	+2	N	2	r	3	67	48
	Viesti	1015.9	55	W	1	0	1019.6	*	57	+3	SE	3	r	20	59	52
	Brindisi	1015.3	59	SE	2	r	1016.7	*	63	+2	SE	4	r	77	63	57
	Cagliari							*								
	Palermo	1013.2	52	ESE	1	b	1017.5	*	52	−2	-	0	b	-	63	45
	Tripoli							*								
	Algiers	10243	52	NW	2	c	1023.7	0	57	+2	NW	4	c	4	59	48
Sweden.	Hernösand ...	10043	30	—	0	S	1006.4	*	25	−7	N	2	b	*	*	*
	Stockholm ...	1009.3	37	WSW	2	0	1013.9	*	41	0	SSW	2	0	*	*	*
	Wisby	10126	43	WNW	4	0	1018.1	*	43	+2	SW	2	0	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	988.3	30	−13	NE	6	0
Reykjavik	985.9	36	0	N	3	bc
Vestmanna	980.0	36	−1	W	5	c
Seydisfjord	981.2	34	−3	NE	2	s
Thorshavn	982.3	41	−3	NW	S	0

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	4	3	53	47	r.	o.p.	00.
	Banff	Trace	3	58	42	b.r.c	r.bc	1.9
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	2	2	55	45	p.q	p.q	2.2
Eng. N.E.	Harrogate	1	1	56	46	or.o.c	c.bc.b	0.3
	Skegness	2	Trace	58	44	o.c.	bc.b	0.2
Eng. N.W.	Morecambe	5	Trace	55	48	-	-	0.8.
	Southport	4	-	56	48	c.o.bc.	bc.b	2.2
Midlands.	Leamington Spa							
	Malvern	Trace	-	57	45	o.c.bc	bcb	3.0
	Ross-on-Wye	-	-	58	48	o	c.bz	0.9
Wales.	Rhyl	Trac	Trace	57	48	p. o	c.o.bc	2.6
	Colwyn Bay...	*	*	59	50	bc	bc	2.5
	Llandudno	*	*	53	50	c	c.bc	1.6
	Aberystwyth	*	*	55	50	o.c	bc.o	1.3.
	Tenby	6	1	55	43	b. c	bc	0.9

	STATIONS	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	-	57	47	o.	o.c.	0.0
	Felixstowe	2	-	54	45	o.c.	c.bc	0.0.
	Walton-on-Naze							
	Southend-on-Sea	Trace	-	54	47	o	bc	0.0.
England, S.E.	Margate	1	-	56	48	o	o	0.0.
	Ramsgate	1	-	54	46	oe	oe	0.0.
	Hastings	1	1	54	48	om o	om	0.0
	Eastbourne	1	Trace	56	49	od.o	og	0.0.
	Seaford	*	*	54	49	or	o	0.0
	Brighton	1	Trace	53	50	od	od	0.0
	Worthing	-	Trace	53	50	o	o	0.0.
	Littlehampton							
	Bognor	*	*	54	49	or	or	0.0
	Bournemouth	5	Trace	55	49	o	o	0.0.
England. S.W.	Weymouth...	*	*	58	51	o.o.c	c.bcz	0.0
	Torquay	6	1	57	52	o.p.	o.c	0.1.
	Paignton	*	*	54	?	o	or	0.0
	Penzance	6	Trace	56	52	om	cz	0.4
	Newquay	2	-	56	50	o	c	0.0
	Bude	-	-	56	51	o	c.bc	0.2
	Ilfracombe	1	Trace	56	51	p.c	d c	0.5
	Weston-s-Mare	2	-	56	48	c.or.c	bc.c	0.5

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

25th & 26th November, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	7.33	11.40	3.47
	7.34	11.40	3.46
Greenwich	7.36	11.47	3.58
	7.37	11.47	3.57
Wick	8.24	11.59	3.33
	8.27	11.59	3.31
Valencia	8.19	12.28	4.37
	8.20	12.28	4.36

NOTES ON YESTERDAY'S WEATHER.

Very high temperatures were the rule in all districts. Rain was general, 25 mm. at Eskdalemuir. There was little or no sunshine. A South-Westerly gale was experienced in some localities.

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; 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; 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.

‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 331.

Sunday 26th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	9843	42	W	4	o	9834	0	41	-4	NNE	5	-	o	4	10	46	41	o.c.p.	o.c.p.	cp.	*
	Deerness (Orkney)	9885	40	NW	4	cp.	9908	*	40	-3	NW	4	-	cp	3	3	45	39	op.	op.c.	cp.c.	1·3
	Stornoway ...	9927	40	NNW	3	bcpq	9984	+4	39	-3	N	6	-	bcq	5	2	44	36	bcpq	bcpq	bcpql	1·5
	Castlebay (Barra Isd.)	9942	44	NNW	3	bc	1001·1	+5	42	-4	W	5	-	o'hp	5	2	46	38	c.o.c.	c.o.bc	bcohp	1·1.
	Glasgow ...	9915	40	NNW	1	bc	9980	+3	37	-8	W	2	NW	b	*	4	46	35	omd	o.c.	bc.bx	0·0.
	Eskdalemuir ...	9905	36	NNE	1	bc	9974	+2	36	-10	WNW	5	-	b	*	14	46	34	or.od.	od.ors.	oc.bcb	0·0
	Malin Head ...	9940	45	NNW	5	cqp	9997	+1	46	+1	N	7	NW	cq	7	1	46	40	cq.p	cq.p.	cq.ph	0·1.
	Blacksod Point	9944	40	NW	5	cp	10072	+3	41	-5	NNW	6	NW	bc	5	11	46	39	cp	cp	bcp.bc	*
	Valencia ...	10045	46	W	6	c	1011·4	+4	41	-7	NNW	4	-	cph	5	6	48	40	oc.bph	cphq	cpq'h	0·6
	Roche's Point	10029	45	NW	4	c	10089	*	42	-9	NW	4	NW	c	4	3	52	39	cpq	cpq	cpq	*
	Birr Castle ...	9995	40	W	1	c	10075	*	36	-10	W	1	-	o	*	6	46	35	or.cpo	od.c.p.	co'p	1·1.
	Donaghadee ...	9920	41	WNW	4	ogmp	10000	+3	39	-7	WNW	4	-	cmq	4	8	46	39	omp	omc	cmpql	*
	Liverpool (Bidston)	9917	47	WSW	3	r	9996	+3	44	-4	W	4	W	oq	3	4	52	41	o	op	bcq	0·2
	Holyhead ...	9936	44	NW	8	opq	10022	+3	45	-6	NW	7	NW	bcq	6	6	52	43	opcph	cpopr	cpobc	1·0.
	Pembroke (St. Ann's)	9980	46	WNW	6	cqp	10049	+4	44	-7	WNW	4	NW	bc	4	3	52	43	bc.oqp	cqpp.	bcp'h	0·6.
	Scilly (St. Mary's)																					
	Falmouth ...	10023	44	WNW	8	bcq	10069	+3	42	-9	NW	4	-	cp	*	6	54	41	bcorq	rqcpq	bcphb	1·3.
	Jersey (St. Aubin)	10035	48	WSW	6	cp	10068	*	43	-11	NW	4	-	qhr	4	13	56	42	c.or.q	gbcpb	qphr	1·2.
	Portland Bill ...	9981	49	W	6	b	10038	+3	45	-8	NW	5	NW	c	5	7	54	43	cp.	o.cqp	bc.c.p.	*
	Dungeness ...	9989	51	SW	4	bc	10002	+4	40	-13	WSW	3	W	bc	3	6	54	40	r.cr	o.c.	bcp.bc	*
	Dover	9967	50	SW	6	b	10010	+3	38	-15	W	4	-	b	3	5	53	37	opd	opd.cb	bpr.cb	0·0
	Wick	9893	40	WNW	3	bc	9916	+1	39	-5	NNW	4	-	r	3	1	45	37	omg'bc	bcmp	bmopb	*
	Nairn	9912	39	-	0	cg	9960	*	37	-7	W	2	-	ou	2	3	44	35	pr.c.	cg.	cpg	0·4.
	Aberdeen	9895	40	WNW	3	o	9934	+2	37	-9	WNW	5	NW	b	3	0·1.	46	37	o'bc.oz	o.cz.	obbcp	0·3.
	Leith		41		1	c	9964	+1	37	-10	WSW	2	W	b	3	4	47	36	r	r.o.c.	c.bcb	*
	Tynemouth ...	9885	44	NW	2	cmp	9959	+4	37	-11	W	3	-	bm	4	8	48	35	omp	cmp.	bcmp	*
	Spurn Head ...	9918	52	SSW	4	or	9971	+4	39	-12	NW	6	-	cq	5	3	56	39	cq	cqor	oq,r	oo
	Yarmouth ...	9946	48	WSW	2	o	9976	+8	40	-4	WNW	3	-	c	3	-	54	39	bc	o	bcmon	0·5
	Clacton-on-Sea	9958	48	SSW	4	bc	10000	+4	40	-6	WNW	2	NW	c	2	1	51	39	ogd.c	c.bcc.	bcepc	1·7.
	Nottingham ...	9922	44	SW	4	c	9999	*	38	-4	W	2	W	c	*	4	52	38	o.c	cp.	c.or	1·4.
	Benson (Oxon.) ...	9955	43	SW	2	r	1001·6	+4	38	-9	W	•3	-	bc	*	2	54	38	o.	bc	c.bc.	*
	Sth Farnborough	9969	43	W	3	o	10016	+3	39	-11	WSW	4	-	c	*	3	55	37	or.bco	bc.ocrgr	obc	2·3.
	London (Kew Obsy.)	9971	45	W	4	or	1001·5	+4	41	-8.	WSW	3	-	c	*	2	55	39	om.omr	omdoc.b	elor.b.c.	2·8.
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	9780	36	-	0	r	9918	+8	30	-7	-	0	-	s	2	*	37	32				
	Bodö	9829	39	SW	4	b	9816	+2	39	-2	ESE	1	-	c	1	-	41	37				
	Christiansund ...	9838	46	W	3	o	9864	+1	41	-2	-	0	-	o	4	1	46	39				
	Skudesnaes ...	9882	46	S	5	o	9781	-7	37	-9	N	6	-	r	5	HH	46	36				
	Færder (X'tania Fjord)	9954	46	S	7	o	9847	-1	46	+1	S	4	-	o	3	3	46	45				
	The Scaw (Skagen)	10003	45	S	5	o	9859	-3	46	+1	S	4	-	r	4	2	46	43				
	Blaavands Huk	9977	45	SSW	4	r	9863	-2	45	0	SW	4	-	c	5	3	48	43				
	Copenhagen ...	10052	46	S	3	o	9914	-2	45	-1	SW	4	-	m	*	12	46	43				
	Bornholm ...	10082	43	SSW	8	m.	9946	0	41	-4	SW	7	-	r	2	1	45	39				
FRANCE, &c.	The Helder ...	9968	48	S	6	r	993·1	+5	37	-9	W	7	NW	c	6	3	50	37				
	C. Gris Nez ...	998·7	50	SW	6	bc	10010	+4	43	-8	W	5	*	bc	5	65	54	41				
	La Hève	?	48	WSW	6	r	?	*	45	-8	WNW	5	*	r	6	20	53	43				
	Brest (St. Mathieu)	10075	50	WNW	6	c	10091	0	48	-6	NW	6	*	c	4	5	55	43				
	Rochefort (Ile d'Aix)	10103	54	SW	6	r	10126	0	48	-5	WNW	5	*	c	*	22	57	48				
	Biarritz	10150	63	SW	2	r	10159	-1	52	0	NW	4	*	r	3	11	63	50				
	Paris	1005·2	46	SSW	4	o	10066	+3	39	-8	SSW	3	W	b	*	5	50	39				
	Belfort	1013·3	43	?	6	o	10104	*	39	+5	WSW	5	*	o	*	19	46	34				
	Lyons	1015·0	46	-	0	o	1013·7	*	39	+12	-	0	*	b	*	17	50	37				
	Nice	10167	46	E	4	b	10087	-4	48	+1	-	0	*	o	3	-	59	45				
	Perpignan ...	1017·5	45	-	0	c	1013·6	+1	48	+16	NW	3	NW	o	*	6	57	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1022·0	55	NW	3	r	10229	0	52	-7	NW	5	-	bc	3	9	63	50				
	Madrid	1021·9	54	WNW	1	b	1021·2	0	46	+10	-	0	-	o	*	1	55	36				
	Lisbon	1024·3	59	NNW	2	o	1021·6	0	54	-	NNW	3	*	b	5	-	61	54				
	Azores (Horta) ...	10300	*	NNE	7	b	1033·9	+1	59	-	NE	6	*	o	3	1	66	59				
	Madeira	10266	68	NE	3	o	1024·0	0	61	-	NE	3	-	bc	3	-	70	61				
	Gibraltar						*		-				*									
	Malta	*	*	*	*	*	1018·0	0	69	-	S	4	S	c	4	Trace	72	57				
	Limassol	*	*	*	*	*	1017·5	0	61	-2	SW	1	-	b	3	-	82	52				
	Alexandria ...	1017·1	70	ENE	3	b	1016·0	0	72	0	ESE	6	-	bc	1	-	79	68				
	Cairo (Helwan) ...	1014·1	68	NE	5	b	1014·1	-1	64	+1	NE	1	-	b	*	-	86	59				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Holyhead: 25th Nov
N.W. 8. @ 18h

Falmouth: 25th Nov.
W.8. 13h-18h

Notes

Aurora observed during night of 25th-26th @ Aberdeen and at 22h of 25th at Aberdeen

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	79	86	2·4	56	38	33	2	o.	o.	o1.6 o
CITY (Bunhill Row)	*	*	-	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	74	84	2·1	57	38	31	Trace	oe.o	o	or b mb
CAMDEN SQ. (British Rainfall) ..	76	97	2·6	56	38	34	3	o.c	bc.	*
HAMPSTEAD (Reservoir)	*	87	1·5	53	35	23	3	co p.	o.	bcopxbc
S. KENSINGTON (Museum Grounds)	*	?	1·7	?	?	33	4	bw. o	bc. c.	op. b.
RICHMOND PARK	*	*	-	*	*	*	*	*	c	

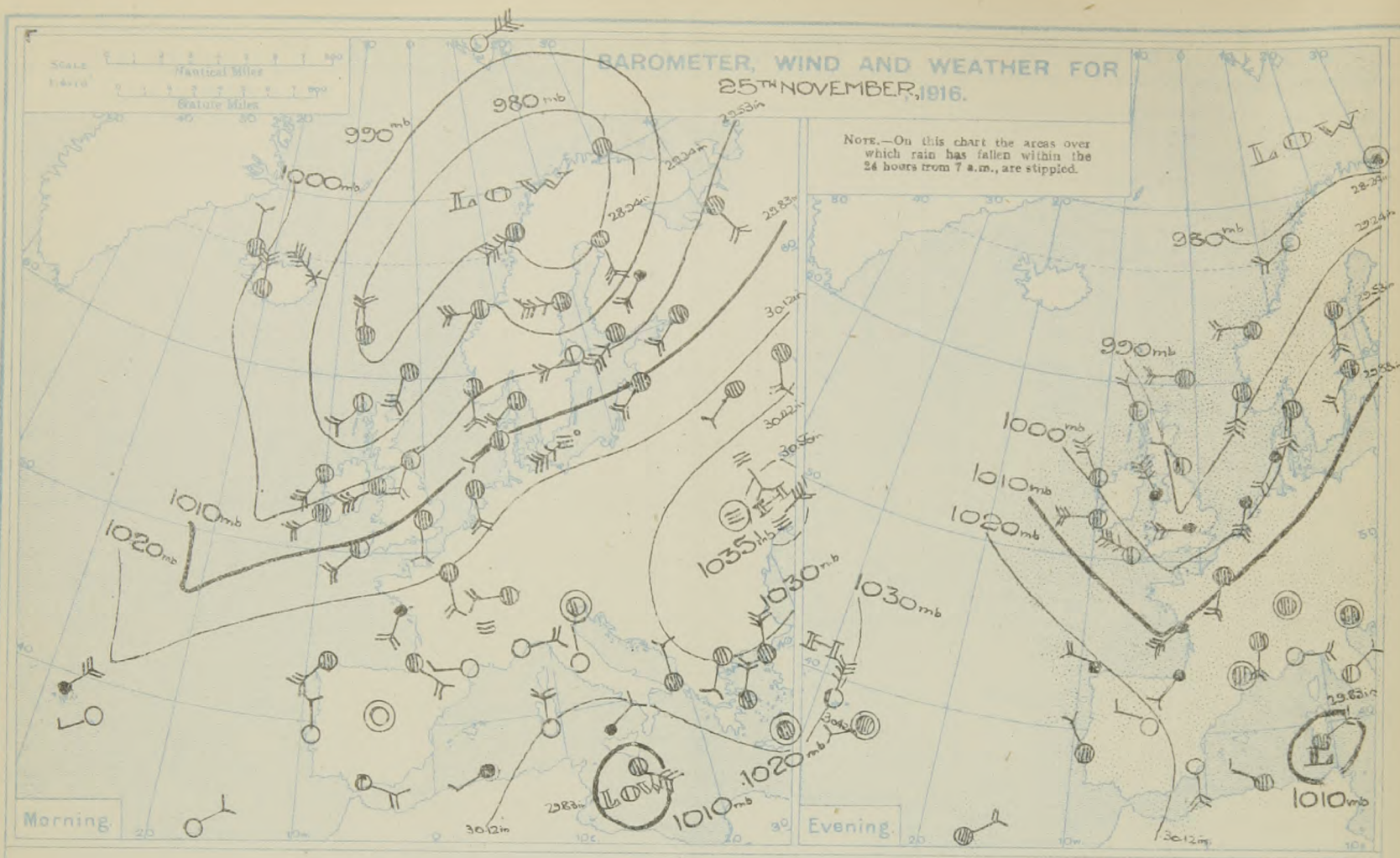
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
221	7.3	24.6

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON 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	Wind between West and North, fresh to	
1	moderate or light;	generally fair or fine.
2 a, b		
3		
4 a, b		
5		
6 a, b	but some passing showers of rain or hail locally;	
7 a, b		
8 a, b	moderate temperature.	
9 a, b		
10 a, b		
Western Channel and Bay 11	Strong North-West wind, moderating; sea rough,	fair generally, local showers; cooler.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 26TH NOVEMBER, 1916.

GENERAL INFERENCE.

A fairer and cooler North-Westerly type of conditions is likely to prevail.

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.
⊤ᵀˢ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

995mb 1000mb 990mb 1005mb 985mb 1010mb 1015mb

Barometer rising 29.05in

Barometer falling 29.24in

980mb

Barometer 28.92in

Barometer rising

generally

1020mb 1025mb 1030mb

HIGH

30.42in

30.27in

30.12in

29.97in

1010mb

1005mb

29.68in

29.83in

AWE.

SCALE 1:2 610 000
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for NOVEMBER.

Issue No. 20093.

DAILY WEATHER REPORT.

Sunday, 26th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					÷	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1005·1	30	S	2	s	1001·0	− 7	34	+ 6	S	4	o	−	*	28
	Gorki	1025·4	36	−	0	o	1027·0	?	37	+ 1	SW	2	o	−	*	34
	Velieki Luki ...	1022·6	39	S	2	o				-					*	
	Hangö						995·0	+ 5	45	+ 8	SW	8	o	1	*	37
	Riga	1018·6	43	SSE	4	r	1010·7	− 1	41	+ 2	SW	4	o o	−	*	39
	Petrograd ...	1014·6	37	SW	3	o	1005·0	− 6	41	+ 7	SW	4	o o	−	41	34
	Moscow	1023·4	45	WSW	4	m	1023·4	− 2	37	+ 1	SSW	3	o	−		36
	Kiev	1034·1	39	NW	2	f	1032·2	− 1	36	0	S	2	c b c	−	*	34
	Kharkov ...	1031·9	34	W	1	o	1033·6	+ 1	36	− 1	−	o	c b c	−	*	34
	Kishinev ...	1035·1	37	−	0	b	1034·3	− 2	28	− 13	−	o	c b c	−	*	28
	Elisabetgrad ...						1035·5	0	34	0	WNW	1	c b c	−	*	28
	Nicolaiev ...	1034·6	37	N	2	b	1035·4	*	30	− 7	ENE	5	c b c	−	*	30
	Odessa	1035·9	39	NNE	2	b									*	
	Tarkhankout ...	1034·4	45	?	4	o	1036·0	*	34	0	ENE	2	c b c	7	*	34
	Soukhoum ...	1035	57	NNE	2	o	1026·9	+ 1	55	−	−	o	c b c	−	*	52
MEDITERRANEAN.	Venice	1029·2	46	−	0	o	1025·7	*	45	0	−	o	bc	−	54	45
	Pesaro	1029·5	50	W	4	o	1027·0	*	50	−	W	1	o	−	57	48
	Rome	1024·9	50	WSW	1	b	1022·6	*	40	− 10	N	1	b	1	59	40
	Viesti	1025·9	57	W	3	o	1024·1	*	57	0	W	1	o	5	61	55
	Brindisi	1023·4	63	E	2	c	1022·6	*	63	0	N	2	bc	1	67	60
	Cagliari	1020·1	59	N	3	c	1019·4	*	50	-	N	4	b	−	64	43
	Palermo	1020·6	?	NE	1	b	1011·4	*	61	+ 9	NE	2	r	10	64	52
	Tripoli	1020·8	54	E	1	b	1011·6	*	52		W	2	b	25	61	50
	Algiers	1024·6	52	W	1	o	1022·6	+ 1	52	− 5	WSW	1	r	28	57	45
SWEDEN.	Hernösand ...	992·2	39	S	6	r	986·9	*	41	+ 16	W	8	o	*	*	*
	Stockholm ...	1003·5	43	SSW	4	o	999·4	*	45	+ 4	WSW	4	b	*	*	*
	Wisby	1010·1	45	SW	4	o	1006·6	*	45	+ 2	WSW	6	b	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1002·9	28	− 2	N	2	o
Reykjavik	996·3	30	− 6	ENE.	6	b
Vestmanna	993·0	38	+ 2	N	6	b
Seydisfjord	992·6	30	− 4	NW	8	s
Thorshavn	979·0	37	− 4	N	5	o

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	3	2	47	45	o	bcp	0·0
	Banff	Trace	−	47	38	b	bc.c	1·2
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	−	2	49	41	c o	r.o.c	0.0
	Skegness	−	−	51	40	c .bc	o	1·9
Eng. N.W.	Morecambe							
	Southport	−	5	50	42	or o	o	0.0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	−	3	58	41	bc o	or c	0.1
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	48	42	oc o	or	0.0
	Tenby	1	6	52	44	bcp	bcp	0·4

	STATIONS.	Rainfall Night. 18h–9h.	Rainfall Day. 9h–18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft							
	Felixstowe	Trace	Trace	52	42	cp.bc	bc	0·5
	Walton-on-Naze	1	−	51	43	bc.c	bc b.c.b	1.4
	Southend-on-Sea	1	-	54	43	o	a.c.bc.b	0·8
England, S.E.	Margate	−	-	56	42	c	c	0·3
	Ramsgate	Trace	Trace	52	43	cp	c. cp	0·3
	Hastings	3	1	54	47	or	cp	0.0
	Eastbourne	5	2	54	49	cd	cd	0.0
	Seaford	*	*	53	48	o	r. o	0.1
	Brighton	1	Trace	54	46	cd	cd	0·2
	Worthing	1	1	54	46	c	or	0·5
	Littlehampton	1	1	53	48	o	bc.d	1.0
	Bognor	*	*					
	Bournemouth	2	1	54	44	o c	o.b	1·7
England, S.W.	Weymouth...	*	*					
	Torquay	1	1	53	45	c.bc	bc.cp	1·7
	Paignton	*	*	55	38	c	cp	1.5
	Penzance	Trace	4	55	43	c. bc	or. c	2.2
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

26th & 27th November, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7 34	11 40	3 46
	7 36	11 41	3 45
Greenwich	7 37	11 47	3 57
	7 39	11 48	3 56
Wick	8 27	11 59	3 31
	8 30	12 0	3 29
Valencia	8 20	12 38	4 36
	8 22	12 29	4 35

PILOT BALLOON ASCENTS for the PAST WEEK.

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

STATION. Date and 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.
		Benson 21st Nov. Noon		Benson											
Heights in Kilometres	8·5			+11	−6										
	8·0			+9	−5										
	1·5			+4	−3										
	1·0	0	+3	+8	−6										
	·5	+2.	0	+6	−6										
	0	0	+1	+3	0										

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; n. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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† The barometric change is expressed in half millibars

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 332 — Monday, 27th November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F	Wind: Direc.	Wind: Force 0–12	Weather.	THIS MORNING: 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: Rain-fall Millimetres.	Temp. Max. °F	Temp. Min. °F	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	998.7	39	N	6	cq	1010.6	+ 6	37	- 4	NNW	5	–	cqp	4	3	42	35	c. bq	cqp	cqp	
	Deerness (Orkney)	1001.7	40	N	6	bcpq	1013.9	*	35	- 5	NW	4	–	qph	4	5	43	34	cp. c	cp. bc	bc cph	1. 1
	Stornoway ...	1009.3	36	N	5	bcqp	1018.6	+ 4	38	- 1	N	2	–	o	2	8	42	35	bcphq	bcphrq	c. cphq	1. 5
	Castlebay (Barra Isd.)	1011.6	40	NNW	5	ohp													khp ch	ohp		
	Glasgow ...	1006.7	37	WNW	1	b	1019.6	+ 5	33	- 4	W	1	–	bzx	*	–	42	31	b.bc.c.o	c. bo. b	bzx	2 7
	Eskdalemuir ...	1005.4	36	NW	4	b	1019.4	+ 5	28	- 8	–	0	–	bx	*	0.1	40	27	b	bc b	bx	2. 3
	Malin Head ...	1008.4	41	NW	7	cmq	1020.5	+ 5	43	- 3	NNW	5	NW	bcqp	6	7	46	38	bcqph	cmqp	bcqp	0. 6
	Blacksod Point	1014.1	41	NNW	5	bcqp	10238	+ 4	41	0	NNW	2	–	bc	3	3	46	38	bcqph	bcqph	bcl bc	*
	Valencia ...	1015.7	42	NNW	5	bc	10252	+ 4	39	- 2	NE	1	NW	b	4	4	47	38	c. bcpq	bcphq	bc. b	3 4
	Roche's Point	1012.6	42	NW	3	b	10239	*	37	- 5	NNW	2	–	b	2	0.3	46	37	bcpq	bc. b	b	*
	Birr Castle ...	1012.5	36	W	1	c	10234	*	28	- 8	–	0	–	b	*	1	41	28	cp cp	cp	bcx	2 9
	Donaghadee ...	1006.7	39	NW	5	cq	1019.1	† 4	41	+ 2	N	5	–	bcqp	4	1	44	38	cqp	cqp	bcqp	*
	Liverpool (Bidston)	1005.7	42	NW	4	bc	10189	+ 7	39	- 5	NW	3	–	b	3	1	45	39	bcph	bcp	c. b	2. 1
	Holyhead ...	1006.3	44	NNW	6	bcq	1019.6	+ 4	43	- 2	NE	5	–	b	5	3	46	42	c. bcq	c. bcq	bcphl	3 0
	Pembroke (St. Ann's)	1006.3	44	WNW	4	c	1020.0	+ 8	41	- 3	N	3	N	cr	4	9	45	36	bcq. c	c	ophr	5. 4
	Scilly (St. Mary's)																					
	Falmouth ...	1009.8	42	NW	4	bc	1019.1	+ 5	38	- 4	N	2	–	bx	*	4	47	37	bcph	bc. oph	bch bx	3. 7
	Jersey (St. Aubin)	1007.0	43	W	3	oph	1015.6	*	43	0	N	4	N	b	3	6	50	40	qpb. bc	blph	olfr. b	3. 9
	Portland Bill ...	1005.7	45	NW	3	b	1015.7	+ 9	38	- 7	N	3	–	b	3	0.1	49	38	bc	bcp	bc. b	*
	Dungeness ...	1004.2	39	W	1	b	1012.1	+ 4	34	- 6	N	3	–	o	3	–	47	33	bc	bc	bcx.c.o	*
	Dover	1006.1	35	NW	1	b	1013.5	+ 5	35	- 3	NW	4	NW	r	4	1	45	33	b bc. c	c bc bx	x b. opr	A. 8
	Wick	1002.3	40	NNW	5	c	1015.1	+ 6	36	- 3	NNW	5	–	o	4	3	42	34	bcqph	bh cqp	bcompq	*
	Nairn	1004.8	37	NNW	4	c	1017.6	*	34	- 3	NW	1	–	cq	2	1	40	32	c. bc. c	qp. o	q cpx	0. 8
	Aberdeen	1002.5	37	NW	4	bc	1015.7	† 5	35	- 2	WNW	5	–	b	3	10	40	34	bcrsq	bcrhq	bcqph	0. 2
	Leith	1004.9	41	NW	3	b	1017.9	+ 3	34	- 3	WNW	1	N	c	3	–	42	33	b bc. c	o c bc b	b bc. c	*
	Tynemouth ...	1002.3	40	WNW	2	cm	1016.7	+ 5	36	- 1	NW	3	N	bm	4	Trace	42	35	b	o m d	bm	*
	Spurn Head ...	1002.6	42	WNW	4	bc	1014.0	+ 2	38	- 1	NNW	6	–	or	6	T	44	36	cq	bcq	c. or	1. 7
	Yarmouth ...	1004.0	39	W	3	bc	10127	+ 4	39	- 1	NNW	4	–	bcp	3	5	45	34	c. bc	bcm	c bcp	3. 6
	Clacton-on-Sea	1004.2	40	WNW	2	bc	1013.3	+ 5	35	- 5	NW	3	N	bc	2	2	44	33	c. bc	bc	bc c or	2 8
	Nottingham ...	1004.4	38	W	2	b	1016.4	*	36	- 2	NNW	3	–	b	*	1	43	35	cp o	qp	bc c	0. 7
	Benson (Oxon.) ...	1005.4	37	W	2	b	1016.5	+ 6	26	- 12	–	0	–	b	*	1	45	24	b	bc bcp	b. bx	*
	Sth Farnborough	1005.5	37	NW	2	b	1015.5	+ 6	28	- 11	WNW	2	–	bxm	*	–	48	28	c. b. bc	bc b	bl bxm	6 5
	London (Kew Obsy.)	1005.9	41	WSW	2	b	1015.3	+ 6	34	- 7	NNW	2	–	bxm	*	Trace	47	34	c. bc	c. b	b. bxm	6. 0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	997.3	32	E	1	S	991.3	-6	37	+ 7	—	0	–	o	3	*	37	28				
	Bodö	987.9	39	ESE	2	c	983.8	- 1	36	- 3	—	0	–	b	0	–	39	32				
	Christiansund ...	987.3	41	NW	2	0	995.4	+ 5	41	0	NNW	4	–	o	4	3	43	37				
	Skudesnaes ...	981.0	43	NNW	10	r	999.8	+ 10	41	+ 4	NNW	9	–	c	5	22	43	34				
	Færder (X'tania Fjord)	980.3	45	SSW	8	0	993.0	+ 10	41	- 5	NNW	6	W	b	4	8	46	41				
	The Scaw (Skagen)	986.6	43	SSW	5	c	994.9	+ 6	45	- 1	W	5	–	o	5	1	46	43				
	Blaavands Huk	994.1	43	W	4	c	1005.2	+ 8	43	- 1	WNW	3	–	b	4	3	46	39				
	Copenhagen ...	996.8	43	WSW	4	b	1005.6	+ 4	41	- 4	WSW	4	–	m	*	1	45	39				
	Bornholm ...	995.9	45	SW	9	r	1006.7	+ 3	41	0	WSW	8	–	m	2	3	45	39				
FRANCE, &c.	The Helder ...	1001.9	45	W	3	bc	1010.9	+ 5	45	+ 8	N	2	–	3	2	1	46	39				
	C. Gris Nez ...	1003.4	44	W	3	bc	1015.0	+ 3	40	- 3	N	4	*	e	2	–	54	39				
	La Hève	*	41	WNW	3	bc	*	*	41	- 4	NNE	3	*	bc	3	19	52	39				
	Brest (St. Mathieu)	1010.9	43	NNW	3	c	1017.3	+ 5	43	- 5	NNE	3	*	bc	3	11	50	39				
	Rochefort (Ile d'Aix)	1008.8	46	WNW	2	c	1012.6	+ 4	38	- 10	NNE	3	*	b	*	3	57	37				
	Biarritz	1011.8	50	W	5	r	1011.4	+ 4	43	- 9	SSW	3	*	r	5	19	54	41				
	Paris	1007.1	37	–	0	bc	1013.2	+ 4	30	- 9	NE	1	–	f	*	5	46	28				
	Belfort	1010.4	39	W	2	0	1013.1	*	32	- 7	—	0	*	m	*	–	45	32				
	Lyons	1010.3	39	–	0	bc	10124	*	35	- 4	–	0	*	c	*	–	49	33				
	Nice	1003.4	47	E	2	c	1007.0	+ 5	44	- 4	E	3	*	b	2	–	54	39				
	Perpignan ...	10104	48	NW	2	0	1011.0	+ 2	36	- 12	W	1	–	b	*	–	50	34				
	Sanguinaire ...	*	56	NW	3	0	*	*	53		E	3	*	c	5	–	57	43				
SOUTHERN STATIONS.	Corunna	1018.7	55	W	6	c	1019.1	+ 3	48	- 4	N	6	–	b	4	18	54	45				
	Madrid														*							
	Lisbon	10208	50	N	3	r	1014.1	+ 1	50	- 4	NNW	5	–	b	6	10	57	48				
	Azores (Horta) ...	10388	*	NNE	5	c	1039.3	- 1	60	+ 1	ENE	3	*	o	2	–	63	59				
	Madeira																					
	Gibraltar	1014.5	55	NW	5	b	1011.8	*	50		NW	4	*	b	3	–	64	47				
	Malta	*	*	*	*	*	1012.2	+ 1	59	0	SW	2	–	c	1	–	68	55				
	Limassol	*	*	*	*	*	10167	+ 1	61	0	SE	1	–	b	5	–	81	45				
	Alexandria ...	10147	75	ENE	2	b	10149	0	70	- 2	E	1	W	b	0	–	81	64				
	Cairo (Helwan) ...	10133	68	NE	4	b	1013.7	+ 2	55	- 9	–	0	NW	b	*	–	86	54				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7h 24m

Wind at	2700 metres	N	11 m/s.
.. ..	2400 ..	N'E	13 ..
.. ..	2100 ..	N'E	13 ..
.. ..	1800 ..	N'E	12 ..
.. ..	1500 ..	NNE	12 ..
.. ..	1200 ..	N'E	11 ..
.. ..	900 ..	N'E	10 ..
.. ..	600 ..	NNE	12 ..
.. ..	300 ..	N	10 ..
.. ..	Surface	NW	3 ..

Aberdeen:
8h.
Wind at 2100 metres NNW 11 m/s.

.. ..	1800 ..	NNW	12 ..
.. ..	1500 ..	NW	12 ..
.. ..	1200 ..	NNW	13 ..
.. ..	900 ..	NNW	13 ..
.. ..	600 ..	NW'N	14 ..
.. ..	300 ..	NW	17 ..
.. ..	150 ..	NW	12 ..
.. ..	Surface	WNW	8 ..

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F	Temperature. Min. °F	Temperature. Min. on Grass °F	Rain-fall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	72	88	2.4	46	34	28	–	bc	b bc	bc x
CITY (Bunhill Row)	*	*	2.8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	71	85	3.3	50	35	29	–	bc b	b om	m
CAMDEN SQ. (British Rainfall) ..	–	90	5.1	48	34	29	Trace	–	–	*
HAMPSTEAD (Reservoir)	*	85	5.4	46	31	17	–	bc	b bc	bx. bcx
S. KENSINGTON (Museum Grounds)	*	85	4.5	48	35	30	Trace	b. bc	b	b
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

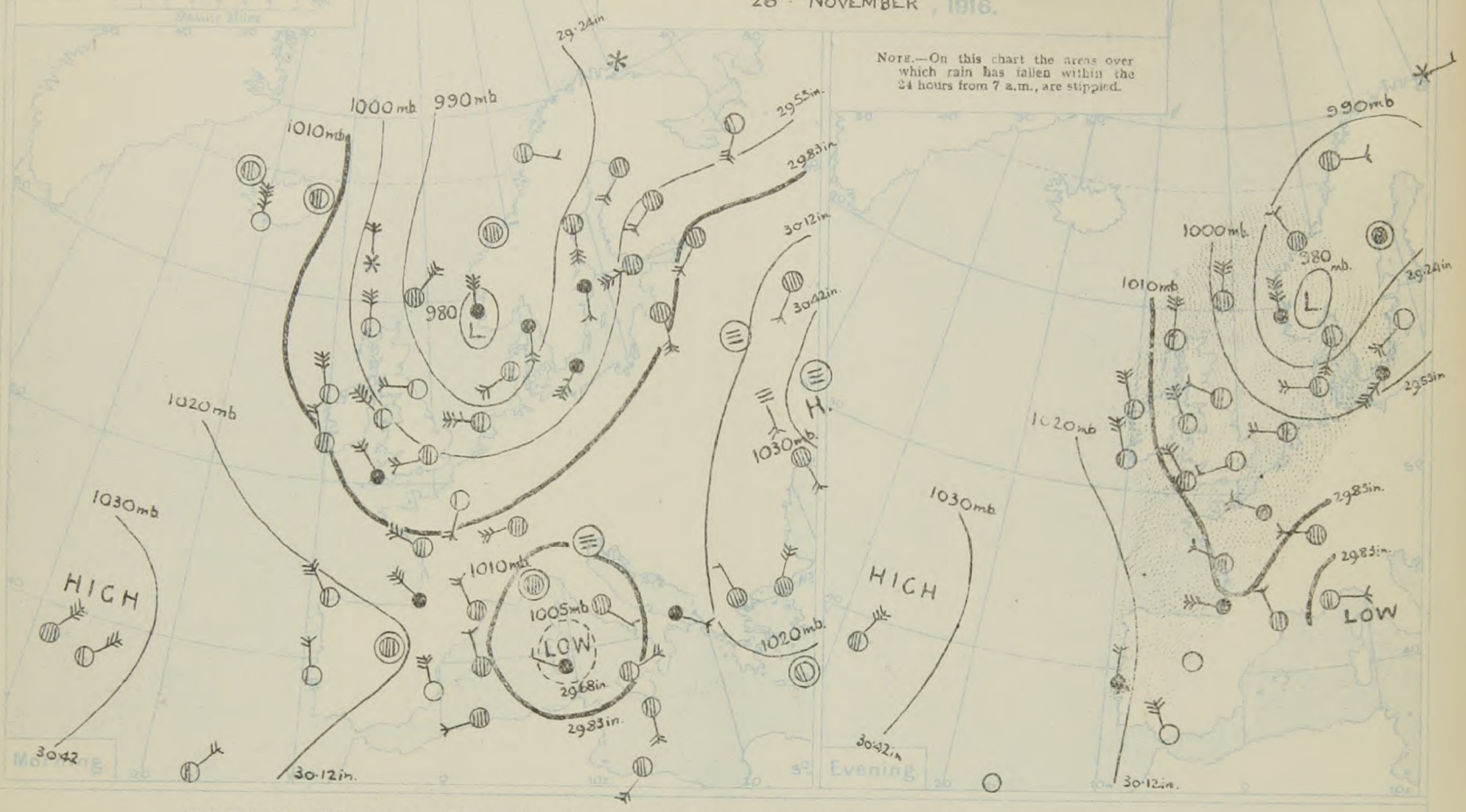
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
310	10.3	24.0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 NOVEMBER, 1916.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

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

Moderate to light Northerly breezes; fine generally, but local passing showers of rain, hail or sleet; cold, night frost.

Moderate Northerly breeze; sea moderate; fair to fine, some cold showers.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

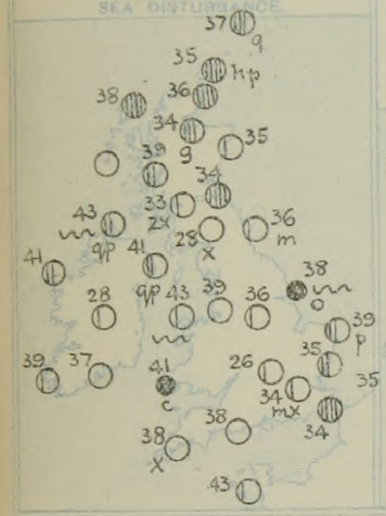
Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR THE MORNING OF MONDAY, 27TH NOVEMBER, 1916.

GENERAL INFERENCE.

A quieter and colder anticyclonic type of conditions will prevail.

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 ≈≈.

990mb
985mb
995mb
1000mb.
1005mb
1010mb
1015mb
1020mb.
1025mb
1030mb
29.24in.
29.09in.
29.38in.
29.53in.
29.68in.
29.83in.
LOW
Barometer
rising
generally
HIGH
LOW
30.42in.
30.27in.
30.12in.
29.97in.

Scale of Nautical Miles and Statute Miles

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for NOVEMBER.

Issue No. 20,944. **DAILY WEATHER REPORT.** Monday, 27th November 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	995·7	36	SSE	3	r	994·8	+11	37	+3.	SW	5	bc	-	*	34
	Gorki	1020·8	37	-	0	0	1019·3	?	34	-3	SW	1	f	-	*	34
	Velieki Luki ...	1019·1	36	S	2	b	-	*	-	-	-	-	-	-	*	-
	Hangö	-	-	-	-	-	1002·4	-3	41	-4	WSW	8	o	-	*	39
	Riga	1015·5	41	SW	1	o	1007·8	-5	39	-2	S	5	o	-	*	39
	Petrograd ...	1007·9	41	W	5	b	1011·3	0	39	-2	SW	3	o	-	43	36
	Moscow	1018·4	39	WSW	4	o	1023·8	+1	37	0	SW	2	o	-	*	36
	Kiev	1029·1	36	SSW	2	b	1025·0	-3	30	0.	S	3	f	-	*	32
	Kharkov ...	1032·4	36	-	0	o	1031·9	0	32	-4	-	0	f	-	*	32
	Kishinev ...	1028·6	39	SE	2	b	1024·7	-3	41	+13	SSE	1	o	-	*	28
	Elisabetgrad ...	-	-	-	-	-	1030·4	-1	27	-7.	SE	2	f	-	*	?
	Nicolaiev ...	1032·9	30	S	2	f	1029·5	*	34	+4	SSE	2	f	-	*	30.
	Odessa	1032·2	43	SSE	3	c	1028·4	+2	45	-	SSE	3	o	-	*	43
	Tarkhankout...	-	-	-	-	-	1030·0	*	37	+3.	E	1	b	-	*	32
	Soukhoum ...	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-
MEDITERRANEAN.	Venice	1018·6	48	-	0	o	1010·6	*	48	13	-	0	f	1	54	40
	Pesaro	1018·9	50	-	0	o	1010·9	*	50	+13	SSW	1	c	-	55	37
	Rome	1014·0	61	SE	3	b	1009·4	*	55	-2	SE	1	o	Trace	66	54
	Viesti	1018·7	57	WNW	1	o	1012·4	*	59	+9	SW	2	o	11	63	50
	Brindisi	1017·2	61	W	1	o	1014·9	*	68	+17.	SE	2	r	60	64	46
	Cagliari	1008·2	59	ENE	4	o	1002·6	*	50	+10	WNW	1	r	9	66	40
	Palermo	1018·7	59	NNE	4	b	1008·1	*	63	0	ENE	3	c	15	66	48
	Tripoli	1015·9	54	-	0	b	1015·9	*	50	-2	SW	4	c	-	61	46
	Algiers	1017·4	57	NW	1	c	1012·8	+3	54	+2	WSW	2	o	6	61	52
SWEDEN.	Hernösand ...	995·0	37	S	4	o	991·4	*	39	-2	S	6	o	*	*	*
	Stockholm ...	1004·5	43	SSW	2	o	992·6	*	41	-4	S	2	r	*	*	*
	Wisby	1009·0	45	SSW	4	c.	998·5	*	43	-2.	SSW	2	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1019·1	23	-5	-	0	c
Reykjavik	1017·2	28	-2	-	0	b
Vestmanna	1013·9	27	-1.	N	9	b.
Seydisfjord	1013·2	24	-3.	-	0	c
Thorshavn	998·5	33	-4.	N	4	s

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	Trace	-	44	40	b.	bcp.	4·1.
	Banff	3	2	44.	38	or bc	bc	0·5.
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	-	-	42	33	c.bc.b	b.bc	3·7.
	Skegness	1	1	45	36	bc.b.	bc.our	2·7
Eng. N.W.	Morecambe							
	Southport	1	-	46	41	bcb	bcob	4·9
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	4	1	46	40	op	oc.bc	2·7.
	Colwyn Bay...	*	*	45	40	c.o	thlr	0·7
	Llandudno	*	*	54	39	c.	cr.c	0·7.
	Aberystwyth	*	*	45	38	r.oc	c-o	2·5.
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	Trace	-	45	39	bcv	bc	4·4.
	Felixstowe							
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate	1	-	45	36	c.	bc	2·8.
	Ramsgate	-	Trace	47	37	bc b	b.	6·4.
	Hastings	1	-	52	40	b	b	6·4.
	Eastbourne	*	*					
	Seaford							
	Brighton							
	Worthing	Trace	-	46	38	b	b	5·3.
	Littlehampton	1	-	47	37	b	b	5·6
	Bognor	*	*					
	Bournemouth	1	-	47	37	bc	bcc	4·4
England. S.W.	Weymouth...	*	*					
	Torquay	2	Trace	47	39	c.	bcp.	1·4.
	Paignton	*	*					
	Penzance							
	Newquay	1	3	47	42	opq	bqp	2·5.
	Bude							
	Ilfracombe							
	Weston-s-Mare							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

27th & 28th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·36	11·41	3·46
	7·38	11·41	3·44
Greenwich	7·39	11·48	3·56
	7·41	11·48	3·55
Wick	8·20	12·0	3·29
	8·23	12·0	3·27
Valencia	8·22	12·29	4·35
	8·24	12·29	4·34.

NOTES ON YESTERDAY'S WEATHER.

A considerable decline of temperature was general, and night frost occurred in many places. Cold showers fell in most districts. There were many good sunshine records, 6½ hours locally.

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; z. hoar frost; z. dust-haze, or smoke.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 333.

Tuesday, 28th November

	STATIONS.	YESTERDAY EVENING					THIS MORNING								PAST 24 HOURS.						Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1014.7	37	NW	2	c	1003.3	− 5	46	+ 9	S	4	−	om	4	8	46	35	c sp	c	om r	*
	Deerness (Orkney)	1017.3	39	SW	3	o	1006.8	*	46	+ 11	SW	4	−	o	3	2	49	35	o ph c	c o	o	0.5
	Stornoway ...	1016.3	44	SW	6	op	1006.9	− 3	50	+ 12	SW	6	−	oq	5	2	51	37	o.c.o	o.c.op	opq	0.9
	Castlebay (Barra Isd.)	1018.6	45	W	4	op	1011.7	−2	51	-	SW	6	−	o	6	2	51	40	bc.op	op	opd.o	0.0
	Glasgow ...	1023.2	38	SSW	1	m	1017.7	−3	42	+ 9	SW	3	−	omgd	*	1	42	32	b.bc.cz	c.om	m.bomp	1.0
	Eskdalemuir ...	1024.9	26	−	0	bx	1020.2	−2	40	+ 12	SSW	6	−	odm	*	7	40	23	b. bc.c	c.bc.bx	bcx.o	4.3
	Malin Head ...	1020.5	43	SW	4	og	1016.0	−1	47	+ 4	SSW	4	−	oq	5	1	47	41	bm	og	oq	0.0
	Blacksod Point	1021.9	45	SSW	5	omg	1017.8	−2	48	+ 7	SSW	4	−	omg	4	3	50	41	cg	cg	omd.om	*
	Valencia ...	1026.6	45	SSE	2	o	1024.0	0	50	+ 11	SW	3	−	o	*	4	51	36	b. bc.o	o	or.o	1.1
	Roche's Point	1027.8	43	WSW	2	o	1025.3	*	49	+ 12	SW	3	−	o	3	0.2	49	37	bc.om	om	ome	*
	Birr Castle ...	1025.8	39	S	1	o	1022.3	*	46	+ 18	S	1	−	o	*	3	46	24	bc.c	o	op	0.2
	Donaghadee ...	1023.3	39	SW	3	ogm	1018.6	− 3	43	+ 2	SW	4	−	ompd	3	0.3	43	38	cm	cm	ogmpd	*
	Liverpool (Bidston)	1025.1	40	NW	1	bc	1024.8	− 1	38	− 1	SSE	2	S	og	2	1	44	38	b	bsop	d	5.4
	Holyhead ...	1025.0	44	N	4	bc	1022.9	− 3	47	+ 4	S	5	−	ogmd	4	1	47	41	bcq	bc	c.omgd	1.5
	Pembroke (St. Ann's)	1026.5	43	−	0	o	1026.8	− 1	46	+ 5	SW	3	SW	c	3	1	48	40	bop.c	bop.o	bc.c	1.2
	Scilly (St. Mary's)																					
	Falmouth ...	1027.1	37	N	1	bz	1029.8	0	39	+ 1	N	1	−	c	*	Trace	47	34	b.op.b	bz	bz.b.bc	5.2
	Jersey (St. Aubin)	1023.9	45	NNE	3	c	1030.6	*	33	− 10	N	2	−	bm	1	Trace	47	32	bp.b	bc.b.o.c	c bwxm	5.6
	Portland Bill ...	1025.4	40	N	2	b	1029.5	+ 1	45	+ 7	SW	2	SW	bc	2	−	45	35	b·	b	b.bc	*
	Dungeness ...	1023.1	35	N	3	b	1029.9	+ 3	28	− 6	NW	1	−	b	2	−	45	28	c.bc	c.b	b bcxz	*
	Dover	1023.9	38	WNW	5	b	1030.9	+ 2	32	− 3	−	0	−	b	2	0.3	43	28	p.r.c.bc	bc.b	bxm	3.1
	Wick	1018.1	36	SW	2	bc	1008.1	− 3	46	+ 10	SSW	5	−	o	4	1	46	33	ompq.c	c.bcm	bc.gp	*
	Nairn	1019.2	35	−	0	bc	1009.5	*	47	+ 13	W	3	−	og	2	−	47	33	c bc	cg	cq	0.3
	Aberdeen	1021.3	33	W	1	b	1013.0	− 4	42	+ 7	SSW	5	−	o	3	1	42	33	b.bc	bc.b	b.or	4.0
	Leith	1022.8	34	E	1	b	1016.2	− 3	44	+ 10	SW	4	SW	c	3	−	45	33	c.obc.c	c bcm b	bm bq c	*
	Tynemouth ...	1022.9	35	W	2	bm	1020.9	− 2	38	+ 2	SW	3	N	cm	4	−	40	32	bm	bcm	bcm	*
	Spurn Head ...	1023.2	39	NNW	5	bcq	1026.8	0	35	− 3	WSW	2	−	bcmx	4	Trace	42	32	bcq	bcq	bcq	1.5
	Yarmouth ...	1023.4	37	N	3	bc	1028.4	+ 3	29	− 10	NW	2	−	bf	2	−	41	29	bc	bc	bcm	4.9
	Clacton-on-Sea	1023.3	37	NNW	3	bc	1030.2	+ 3	29	− 6	WNW	2	−	bc	1	−	43	28	bc	bc	bc.bmx	6.3
	Nottingham ...	1024.7	34	NW	1	bm	1027.0	*	29	− 7	W	1	W	cmx	*	−	41	26	bm	bm	bm	2.8
	Benson (Oxon.) ...	1025.6	30	−	0	b	1029.6	+ 2	26	0	SW	2	−	b	*	−	40	22	bg	bg	b bx	*
	Sth Farnborough	1024.8	34	NNW	2	b	1029.6	+ 1	24	− 4	−	0	N	bxf	*	−	41	22	xmsabz	bm	bmx.f	3.7
	London (Kew Obsy.)	1025.2	37	NW	1	b	1030.4	+ 2	28	− 6	−	0	N	bxm	*	Trace	42	27	bmxbcwb	b. bm	bm bmx	4.2
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	992.4	36	SW	1	o	995.1	+ 8	27	− 10	NW	5	−	o	4	*	37	27				
	Bodö	995.8	39	N	4	c	1000.7	− 3	34	− 2	ESE	2	−	c	2	−	39	32				
	Christiansund ...	1009.7	39	NNW	4	c	1006.6	− 3	43	+ 2	NW	2	−	o	4	3	43	34				
	Skudesnaes ...	1015.4	39	N	3	c	1017.3	− 1	41	0	S	3	−	c	5	5	41	34				
	Fædø (X'tania Fjord)	1010.0	41	W	1	b	1014.6	+ 3	36	− 5	NW	1	W	bc	1	−	43	36				
	The Skaw (Skagen)	1008.7	41	W	1	b	1018.4	+ 4	37	− 8	W	4	−	b	4	−	48	34				
	Blaavands Huk	1015.3	43	NNW	2	b	1024.2	+ 2	43	0	NNW	3	−	o	2	1	46	39				
	Copenhagen ...	1013.9	41	W	2	b	1023.7	+ 5	37	− 4	W	3	−	m	*	−	45	36				
	Bornholm ...	1013.6	41	W	5	m	1022.3	+ 4	41	0	WNW	7	−	m	2	−	43	39				
FRANCE, &c.	The Helder ...	1020.4	45	NW	2	b	1028.3	+ 4	32	− 13	S	1	−	bc	2	2	45	32				
	C. Gris Nez ...	1021.7	45	NNE	5	o	1023.4	+ 4	39	− 1	N	1	*	b	1	7	45	37				
	La Hève	*	41	NNE	3	bc	*	*	39	− 2	NE	3	*	m	2	3	50	37				
	Brest (St. Mathieu)	1027.0	42	NNE	3	c	1031.4	+ 2	41	− 2	E	2	*	b	2	−	48	39				
	Rochefort (Ile d'Aix)	1022.4	40	ENE	3	b	1029.5	+ 2	35	− 3	ENE	3	*	o	*	−	46	34				
	Biarritz	1019.8	45	NE	3	bc	1026.9	+ 3	36	− 7	NE	2	*	o	3	−	50	36				
	Paris	1022.7	32	SE	1	f	1030.9	+ 3	34	+ 4	SE	1	−	o	*	Trace	37	30				
	Belfort	1021.3	36	ENE	2	c	1030.0	*	30	− 2	ENE	4	*	f	*	−	42	27				
	Lyons	1020.4	37	N	1	bc	1027.7	*	38	− 2	N	2	*	o	*	−	46	33				
	Nice	1014.4	47	E	2	c	1019.0	+ 4	48	+ 4	E	4	*	c	3	−	54	41				
	Perpignan ...	1016.8	45	SSW	3	bc	1023.1	+ 4	41	+ 5	NW	3	−	c	*	−	50	39				
	Sanguinaire ...	1011.9	55	SSE	2	o	1013.2	*	54	+ 1	E	1	*	o	3	6	57	46				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1030.9	*	NE	4	c	1027.8	− 2	58	− 2	−	0	*	bc	1	−	64	57				
	Madeira	1019.7	68	NE	4	c	1018.4	− 1	63	− 1	ENE	5	N	bc	5	−	72	63				
	Gibraltar	1005.7	46	W	5	c	1006.1	*	46	− 4	W	2	*	r	3	7	55	44				
	Malta	*	*	*	*	*	1017.7	+ 4	57	− 2	−	0	−	b	0	−	72	55				
	Limassol	*	*	*	*	*	1017.3	+ 2	63	+ 2	E	1	−	c	4	−	79	54				
	Alexandria ...	1016.0	68	ENE	2	b	1016.7	0	68	− 2	ENE	1	W	bc	0	−	81	64				
	Cairo (Helwan) ...	1013.7	72	NE	3	0	1015.4	+ 3	59	+ 4	−	0	W	b	*	−	79	54				

UPPER AIR.

South Farnborough.
Pilot Balloon Ascent at 7h. 35m.

Wind at

3400 metres	N'W	9 m/s
3000 -	N'W	5
2700 -	N'W	6
2400 -	NW	5
2100 -	NW'W	4
1800 -	NW'W	5
1500 -	W'N	4
1200 -	NW	6
900 -	W	5
600 -	WSW	6
300 -	WSW	7
Surface	SW	2

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	77	87	3.0	42	25	20	−	bcz	bcz	bzbx
CITY (Bunhill Row)	*	*	3.3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	76	92	1.5	44	26	25	−	b	b	bf.f
CAMDEN SQ. (British Rainfall) ..	79	85	5.8	43	26	25	−	b	b	*
HAMPSTEAD (Reservoir)	*	74	5.4	40	26	11	−	bcx b	b	bcx
S. KENSINGTON (Museum Grounds)	*	77	3.6	45	29	23	−	bc.b	bc bz	bm bzx
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*

SOUTH KENSINGTON.

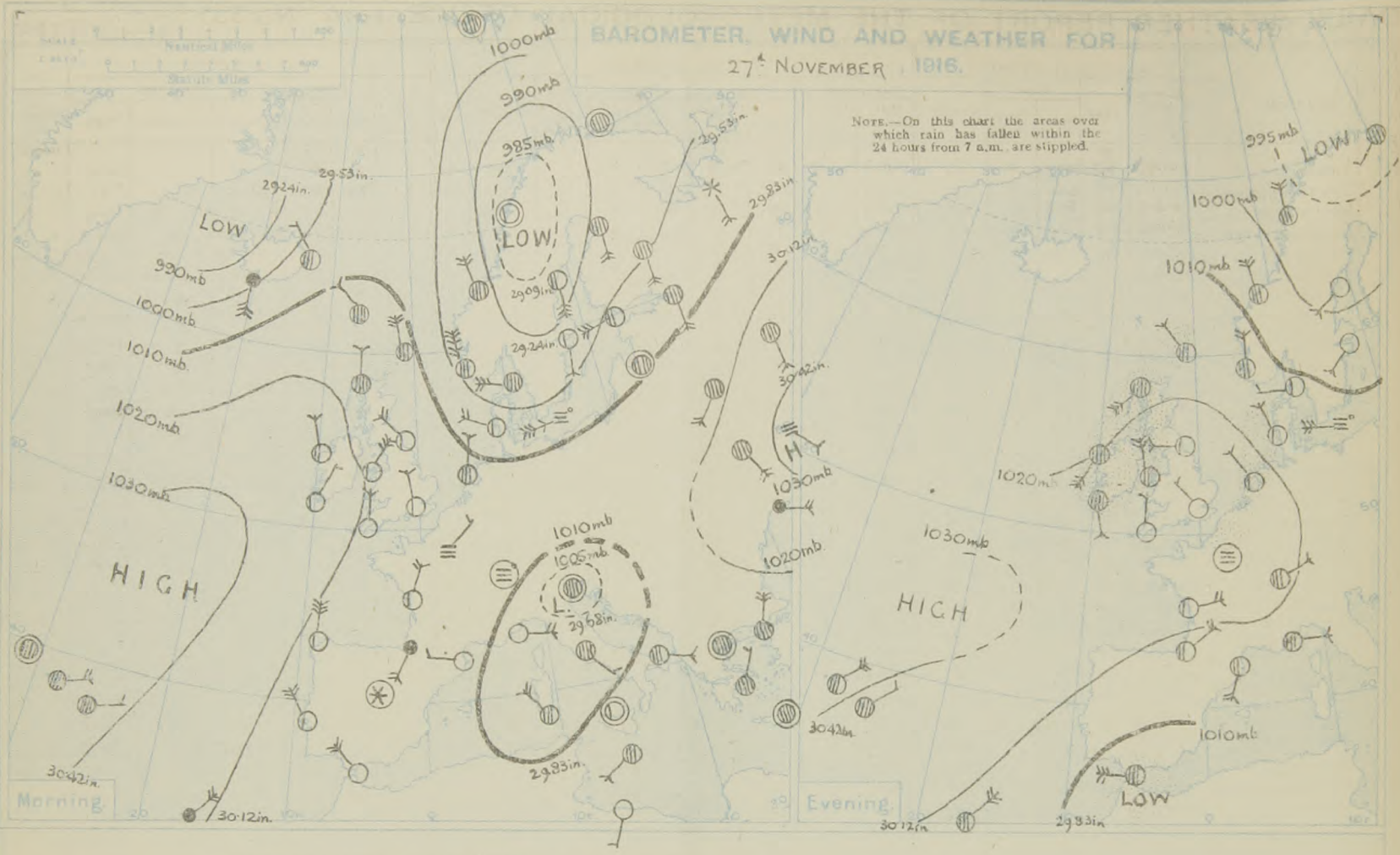
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
joules.	Milliwatts.	Milliwatts.
269	9.0	18.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 NOVEMBER 1916.



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

FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 (a, b), 1 — Strong or high South-Westerly winds; unsettled some rain; rather mild.

2 (a, b) — Fresh or strong South-Westerly winds; unsettled; mild.

3, 4 (a, b), 5 — Light winds, becoming West or South-West and increasing a little; fair, some mist; becoming rather less cold.

6 (a, b) — Same as Nos. 0 and 1.

7 (a, b) — Same as No. 2.

8 (a, b) — Same as Nos. 3 - 5.

9 (a, b), 10 (a, b) — Moderate or fresh South-Westerly winds; dull; rather mild.

Western Channel and Bay 11 — Light winds, uncertain direction; smooth sea; fine or fair.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 28TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression to the north of Scotland is passing Eastwards and is not likely to have much influence in the south of the country

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1:23 x 10^6
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.

LOW
995mb
29·38in.
29·55in.
29·68in.
29·83in.
29·97in.
30·12in.
30·27in.
30·42in.
LOW
Barometer falling
Barometer rising generally
HIGH
1030mb
1025mb
1020mb
1015mb
1010mb
1000mb
995mb
990mb
29·24in.
LOW
29·83in.
29·97in.
1010mb
1015mb
1020mb
1025mb
30·27in.

Issue No. 20,095. **DAILY WEATHER REPORT.** Tuesday, 28th November, 1916.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1004·2	36	S	4	o	1002·7	+2	34	-3	S	3	S	1	*	34
	Gorki	1016·4	37	SW	4	o	1017·2	?	37	+3	SW	3	o	1	*	30
	Velieki Luki ...	1014·6	37	SE	3	o	1015·5	*	41		SE	3	o	-	*	37
	Hangö	-	-	-	-	-	1002·0	+3	43	+2	WSW	5	bc	1	*	41
	Riga	1004·6	41	S	1	b	1009·1	+3	43	+4	-	0	o	-	*	41
	Petrograd ...	1005·7	41	S	4	o	1008·0	+1	41	+2	S	4	o	-	41	37
	Moscow	1023·8	36	S	3	o	1024·4	+1	36	-1	S	3	o	-	*	34
	Kiev	1023·4	41	SSE	4	b	1023·8	o	34	-2	SSE	4	o	-	*	34
	Kharkov ...	1032·3	34	ESE	2	o	1031·9	o	28	-4	SE	2	f	-	*	28
	Kishinev ...	1022·8	46	-	o	o	1021·2	+1	48	+7	ESE	1	o	-	*	41
	Elisabetgrad ...	1028·0	34	SE	3	f	1027·5	o	32	+5	SSE	3	f	-	*	27
	Nicolaiev ...	1027·4	37	SSE	3	o	1026·6	*	39	+5	SE	2	r	2	*	32
	Odessa	1025·7	45	SSE	3	o	1025·1	r	45	o.	SE	3	f	-	*	41
	Tarkhankout...	1028·2	48	SE	3	b	1025·5	*	39	+2	SE	1	f	-	*	39
	Soukhoum ...	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-
MEDITERRANEAN.	Venice	1003·6	50	NE	1	c.	1004·3	*	50	+2	-	o	o	2	54	48
	Pesaro	1004·9	55	-	o	o	1005·6	*	50	o	-	o	b	Trace	59	48
	Rome	1003·5	54	-	o	o	1008·2	*	54	-1	SE	1	o	7	59	52
	Viesti	1008·2	59	SSW	1	b	1008·2	*	59	o	SE	2	b	-	63	57
	Brindisi	1010·2	59	S	3	bc	1011·6	*	59	-4	ESE	2	c	Trace	64	59
	Cagliari	1006·7	57	NW	5	b	1008·6	*	57	+7	NW	3	c	2	68	45
	Palermo	1006·9	55	ESE	1	o	1010·9	*	61	-2	-	o	b	9	63	48
	Tripoli	1014·6	61	-	o	b	1015·5	*	48	-2	SSW	1	b	-	93	43
	Aigiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN.	Hernösand ...	988·3	39	-	o	r	988·2	*	39	o	S	6	bc	*	*	*
	Stockholm ...	997·7	43	SSW	4	o	997·2	*	39	-2	S	2	b	*	*	*
	Wisby	996·2	45	SW	4	b.	1003·4	*	48	o.	SW	6	c.	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		F	F			
Isafjord .	995·1	37	+14	S	4	c
Reykjavik	999·0	36	+8	SSE	4	o
Vestmanna	1000·8	39	+12	S	5	r
Seydisfjord	1005·2	23	-14	NW	1	c.
Thorshavn	1012·8	30	-3	NW	2	o.

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max	Temperature. Min	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	-	Trace	43	36	bcp	pcp	0·2
	Banff	1	Trace	?	35	bcph	bcl	0·6
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	-	-	40	31	b	b.bc	4·5
Eng. N.E.	Harrogate	-	-	40	31	b	b	6·0
	Skegness	2	Trace	42	34	bcp.b	b	3·4
Eng. N.W.	Morecambe	-	-	43	33			5·0
	Southport	-	-	43	33	b.bc.	c.o.bc.	5·7
Midlands.	Leamington Spa							
	Malvern	-	-	41	35	b.bc.	bc.b	6·0
	Ross-on-Wye	-	-	48	30	b	b	5·9
Wales.	Rhyl	-	-	45	41	bc	bc.o.c	4·8
	Colwyn Bay...	*	*	46	40	bc	bc	2·5
	Llandudno	*	*	48	41	bc.c	c	2·4
	Aberystwyth	*	*	46	32	r.o.c.	bc.c	3·5
	Tenby	3	-	48	?	bc	bc	3·0

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	3	-	46	35	bc	bc.c.	4·9
	Felixstowe	1	-	45	33	bc	bc	6·0
	Walton-on-Naze	1	-	43	33	b.b3.b	b	6·5
	Southend-on-Sea	2	-	42	34	b	b	6·3
England, S.E.	Margate	1	-	45	38	c	b.bc.b.	2·3
	Ramsgate	-	-	?	35	c	bc	3·4
	Hastings	2	-	42	34	or.bc.b	b	5·1
	Eastbourne	-	-	43	34	b	b	4·6
	Seaford	*	*	41	32	b	bm	4·8
	Brighton	-	-	42	33	b	b.f	4·9
	Worthing	-	-	42	33	b	b	6·0
	Littlehampton	-	-	42	34	b	b	6·3
	Bognor	*	*	43	33	bc	bc	6·0
	Bournemouth	-	-	43	31	b	b	7·1
England, S.W.	Weymouth...	*	*	43	34	b	b	6·0
	Torquay	-	-	46	33	b	b.bc.c.	6·3
	Paignton	*	*					
	Penzance	8	1	48	39	prh.bc	bc	4·6
	Newquay	1	-	46	41	b	b	4·4
	Bude	-	-	47	32	b	b	5·0
	Ilfracombe	-	-	45	39	b.bc	bc	3·5
	Weston-s-Mare	-	-	45	38	bc.b	b	5·3

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

28th & 29th November 1916.	Sunrise. G.M.T.	Noon. G.M.T	Sunset. G.M.T
Yarmouth	7.38	11.41	3.44
	7.39	11.41	3.43
Greenwich	7.41	11.48	3.56
	7.42	11.48	3.57
Wick	8.33	12.0	3.27
	8.35	12.0	3.26
Valencia	8.24	12.29	4.34
	8.25	12.29	4.33

NOTES ON YESTERDAY'S WEATHER.

Rain fell in the North and West but not heavily. Sunshine was plentiful yesterday in many parts. There were sharp frosts at Eskdalemuir and in the South-East and Midland Counties.

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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‡ The barometric change is expressed in half millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No.334.

Wednesday, 29th November.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING. 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 ...	1000·5	49	WSW	6	bc q	1007·4	0	45	− 1	SSW	8	—	o	2	7	50	42	om fq	or . cq	c . o	*
	Deerness (Orkney)	1004·7	48	SW	5	bc	1009·5	*	43	− 3	SW	1	—	or	2	1	51	42	o	dpd . c	bc c or	0 . 0
	Stornoway ...	1007·8	46	WSW	4	cq	1010·5	+ 1	42	− 8	W	5	—	fp	3	5	51	41	fpq	o . dpq	fp	0 . 0
	Castlebay (Barra Isd.)	1011·1	50	WNW	3	o	1012·6	+ 1	45	− 6	W	3	—	d	3	9	52	43	or	r . o	or d	0 . 0
	Glasgow ...	1014·8	48	SSW	5	od	1012·6	− 1	48	+ 6	SW	5	—	oqr	*	3	49	41	omdp	omdp	odp or	0 . 0
	Eskdalemuir ...	1018·0	46	SW	5	o	1015·6	+ 1	47	+ 7	SW	6	—	orm	*	6	47	39	odm	odm . o	od om	0 . 0
	Malin Head ...	1013·8	51	SW	5	oqp	1011·4	0	45	− 2	SW	4	—	omr	6	10	51	45	oqp	omqp	omr	0 . 0
	Blacksod Point	1015·6	50	SSW	5	om d	1014·4	+ 6	45	− 3	SSW	2	—	omr	4	7	51	44	cq	om	omr	*
	Valencia ...	1022·6	51	S	3	o	1018·7	− 1	52	+ 2	S	4	—	o	*	1	52	?49	od	od	o . c . o	0 . 0
	Roche's Point	1024·8	50	WSW	3	o	1021·4	*	51	+ 2	SW	3	—	o	3	0·4	51	48	d . o	od . o	od . o	*
	Birr Castle ...	1021·2	50	S	2	o	1017·6	*	49	+ 3	S	1	—	o	*	1	50	45	od . r	o	o	0 . 0
	Donaghadee ...	1017·6	49	SW	4	omq	1014·4	−2	50	+ 7	SW	4	—	qqq	4	TRACE	50	43	cmpd	bcm	cqmq	*
	Liverpool (Bidston)	1023·4	49	SSW	2	o	1021·2	−1	50	+ 12	SSW	2	SE	c	3	—	50	38	o	c . o	o . c	0 . 7
	Holyhead ...	1022·2	51	SW	5	omq	1020·0	−1	51	+ 4	SW	5	—	om	4	4	51	47	od . orm	dp . o . om	o . c . om	0 . 0
	Pembroke (St. Ann's)	1026·0	50	SW	4	r	1023·2	−2	50	+ 4	SW	5	SW	cqp	4	1	51	47	cq	od	o . c . oqp	0 . 0
	Scilly (St. Mary's)																					
	Falmouth ...	1029·6	48	SSW	3	oqdm	1027·3	−1	47	+ 8	SW	1	—	c	*	TRACE	48	38	cm o	oq	oq od o	0 . 0
	Jersey (St. Aubin)	1031·1	38	SE	2	bm	1030·0	*	38	+ 5	SE	3	—	om	2	—	49	31	bm f bm	bm	bm . om	5 . 8
	Portland Bill ...	1029·7	47	SW	3	c	1027·6	−2	47	+ 2	SSW	5	—	od	4	—	49	45	bc	bc . c	bc . c	*
	Dungeness ...	1030·6	43	SW	2	b	1028·8	+ 1	42	+ 14	SSW	4	—	b	3	—	45	28	bz . b	bc	bc, b . c	*
	Dover	1031·8	36	—	0	b	1030·5	0	41	+ 9	S	4	SW	o	4	—	44	30	x b	b . x	b . o	7 . 7
	Wick	1006·7	49	SW	2	o	1009·9	0	41	− 6	SW	1	—	r	2	4	51	40	om q	omp	bc . omd	*
	Nairn	1006·6	52	WSW	3	ou	1011·0	*	42	− 5	—	0	—	orq	1	6	52	41	oq . cq	cq, u	oqp	0 . 4
	Aberdeen	1011·3	49	S	4	o	1009·8?	− 1	51	+ 9	SSW	5	—	fp	3	—	51	42	o	o	o . c . o	0 . 0
	Leith	1014·1	51	SW	4	c	1012·1	− 1	50	+ 6	WSW	4	W	c	3	1	51	44	c . o cu . o	o . cue . o	oe op c	*
	Tynemouth ...	1013·4	48	WSW	2	om	1016·9	− 1	50	+ 12	SW	3	W	cm	3	1	50	37	omp	om	cm	*
	Spurn Head ...	1024·8	39	SW	4	cm	1023·6	− 1	?	?	SW	5	—	oq	4	—	40	32	bcm	cm	cq	0 . 0
	Yarmouth ...	1029·6	38	SW	4	bc	1026·6	0	42	+ 13	SW	4	—	cm	3	—	41	29	bf . bcm	bcm	bcm . cq	5 . 5
	Clacton-on-Sea	1030·2	42	SSW	3	bc	1028·7	0	43	+ 14	SSW	4	—	o	3	—	44	29	bcm	bcm	bc, b oq	6 . 0
	Nottingham ...	1025·4	44	SW	3	o	1023·9	*	46	+ 17	SW	3	SW	o	*	—	46	27	cm o	o	o	0 . 0
	Benson (Oxon.) ...	1028·8	40	SSW	4	c	1026·9	0	44	+ 18	S	3	—	o	*	0·2	44	26	bczx	bc	c . o	*
	Sth Farnborough	1030·5	40	SSW	3	bc	1027·7	− 1	44	+ 20	SW	4	—	odm	*	0·1	44	23	b . bcm	bcm . c bcm	bc bm od	5 . 3
	London (Kew Obsy.)	1030·4	40	S	3	bm	1028·3	c	44	+ 16	SSW	3	—	o	*	0·1	44	27	bmx bfx b	b . cm . bm	bm bc . o	3 . 7
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1004·8	23	W	2	o	985·6	−13	32	+ 5	SE	3	—	o	3	*	32	23				
	Bodö																					
	Christiansund ...	992·0	46	SW	6	r	1003·9	+ 8	41	− 2	WNW	7	—	o	6	3	48	39				
	Skudesnaes ...	1009·6	46	S	6	o	1012·0	0	46	+ 5	SSW	3	—	r	4	12	48	39				
	Fær der (Ytania Fjord)	1013·9	45	SSW	8	o	1012·7	+ 1	46	+ 10	SSW	7	—	o	4	—	46	36				
	The Scaw (Skagen)	1019·9	43	SW	5	c	1017·9	− 1	46	+ 9	SW	5	—	o	5	—	46	34				
	Blaavands Huk	1025·6	45	SW	4	bc	1024·0	0	45	+ 2	SW	6	—	o	5	7	45	39				
	Copenhagen ...	1026·4	39	WSW	3	b	1027·5	− 1	39	+ 2	WSW	5	—	m	*	—	43	36				
	Bornholm ...	1028·7	41	W	7	m	1028·7	0	37	− 4	SW	8	—	m	2	TRACE	43	36				
FRANCE, &c.	The Helder ...	1030·1	36	S	5	f	1029·0	0	39	+ 7	S	5	—	o	3	TRACE	45	32				
	C. Gris Nez ...	1031·7	36	SW	3	b	1030·4	− 1	32	− 7	S	3	*	f	3	—	43	32				
	La Hève	*	38	SE	3	f	*	*	32	− 7	SE	2	*	m	1	—	48	32				
	Brest (St. Mathieu)	1031·7	46	S	2	bc	1029·0	− 1	41	0	SE	3	*	o	3	—	48	41				
	Rochefort (Ile d'Aix)	1030·7	36	ENE	4	o	1028·3	− 1	34	− 1	ENE	4	*	b	*	—	41	34				
	Biarritz	1028·0	37	E	2	o	1024·7	− 2	35	− 1	E	2	*	o	2	—	41	34				
	Paris	1033·3	36	NE	2	o	1031·8	− 1	32	− 2	ESE	1	—	o	*	—	37	32				
	Belfort	1031·4	32	E	5	f	1032·2	*	30	0	E	4	*	f	*	—	36	29				
	Lyons	1030·1	34	—	0	o	1031·8	*	33	0	—	0	*	o	*	—	36	33				
	Nice	1023·8	47	E	1	bc	1025·9	+ 2	52	+ 4	E	3	*	c	4	—	54	43				
	Perpignan ...	1025·1	41	NW	2	b	1026·3	− 1	39	− 2	W	1	—	r	*	1	48	37				
	Sanguinaire ...	1017·2	56	W	1	o	1019·9	*	54	0	E	2	*	b	3	—	61	50				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1019·8	41	NE	4	o	1020·2	0	36	0	ENE	3	—	r	*	2	41	34				
	Lisbon	1015·1	50	NNE	5	o	1014·1	− 1	46	+ 3	NNE	5	—	b	5	—	52	43				
	Azores (Horta) ...	1027·0	*	SSW	2	c							*									
	Madeira	1017·1	63	NE	5	r	1015·9	0	63	0	?	?	NE	—	?	?	66	61				
	Gibraltar	1008·1	52	E	6	c	1006·4	*	50	+ 4	E	3	*	r	3	24	55	44				
	Malta	*	*	*	*	*	1021·3	+ 1	63	+ 6	ENE	3	—	o	3	—	70	57				
	Limassol	*	*	*	*	*	1017·9	+ 2	59	− 4	E	1	—	b	3	—	75	48				
	Alexandria ...	1017·2	68	ENE	2	b	1019·1	+ 1	72	+ 4	ENE	2	—	b	1	—	77	66				
	Cairo (Helwan) ...	1015·4	70	N	3	b	1017·3	+ 3	64	+ 5	N	1	—	b	*	—	79	59				

Blacksod Point

Linesquall at 5h, 29th

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F	°F	°F	mm.			
GREENWICH (Royal Observatory)	71	89	6 . 1	44	32	23	—	bz	bz	bc s od
CITY (Bunhill Row)	*	*	1 . 3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	68	87	2 . 4	45	29	29	—	b	b	m
CAMDEN SQ. (British Rainfall) ...	67	92	1 . 7	44	33	34	TRACE	bm . b	b . bc	*
HAMPSTEAD (Reservoir)	*	97	3 . 6	43	38	25	TRACE	bf	bc	ox me
S. KENSINGTON (Museum Grounds)	*	89	2 . 9	46	33	37	—	bx	bcz	b bcz o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

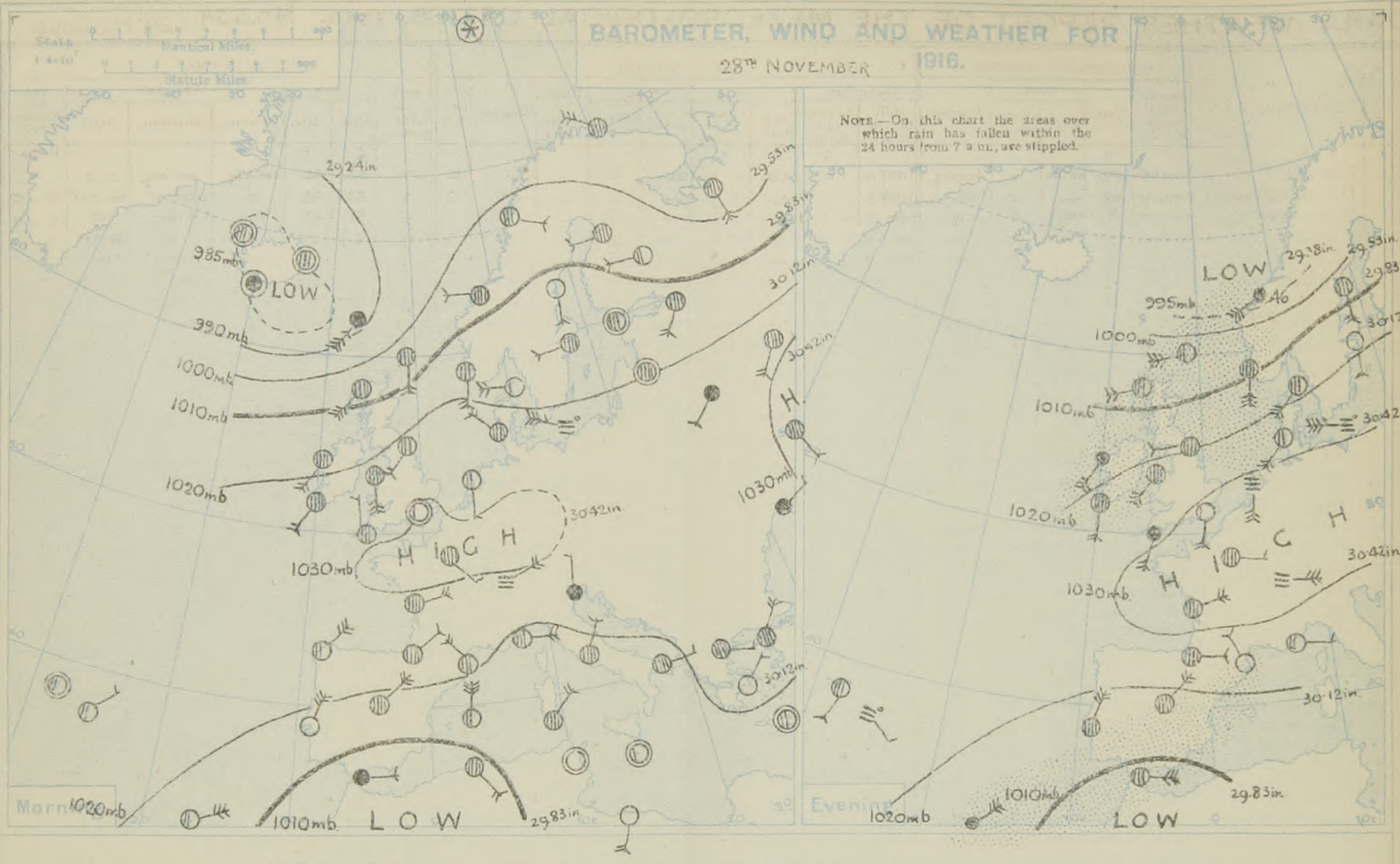
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
287	9·7	20·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

BAROMETER, WIND AND WEATHER FOR 28TH NOVEMBER 1916.



FORECAST FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

Moderate South-Westerly or Southerly winds, fresh at times; unsettled, some rain; mild.

Southerly or South-Easterly winds, moderate; slight sea; unsettled, some showers.

FURTHER OUTLOOK.

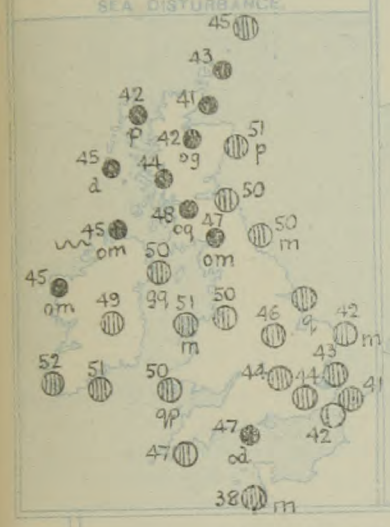
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 29th NOVEMBER, 1916.

GENERAL INFERENCE.

Irregularities of pressure coming in from the West may cause unsettled weather generally.

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.

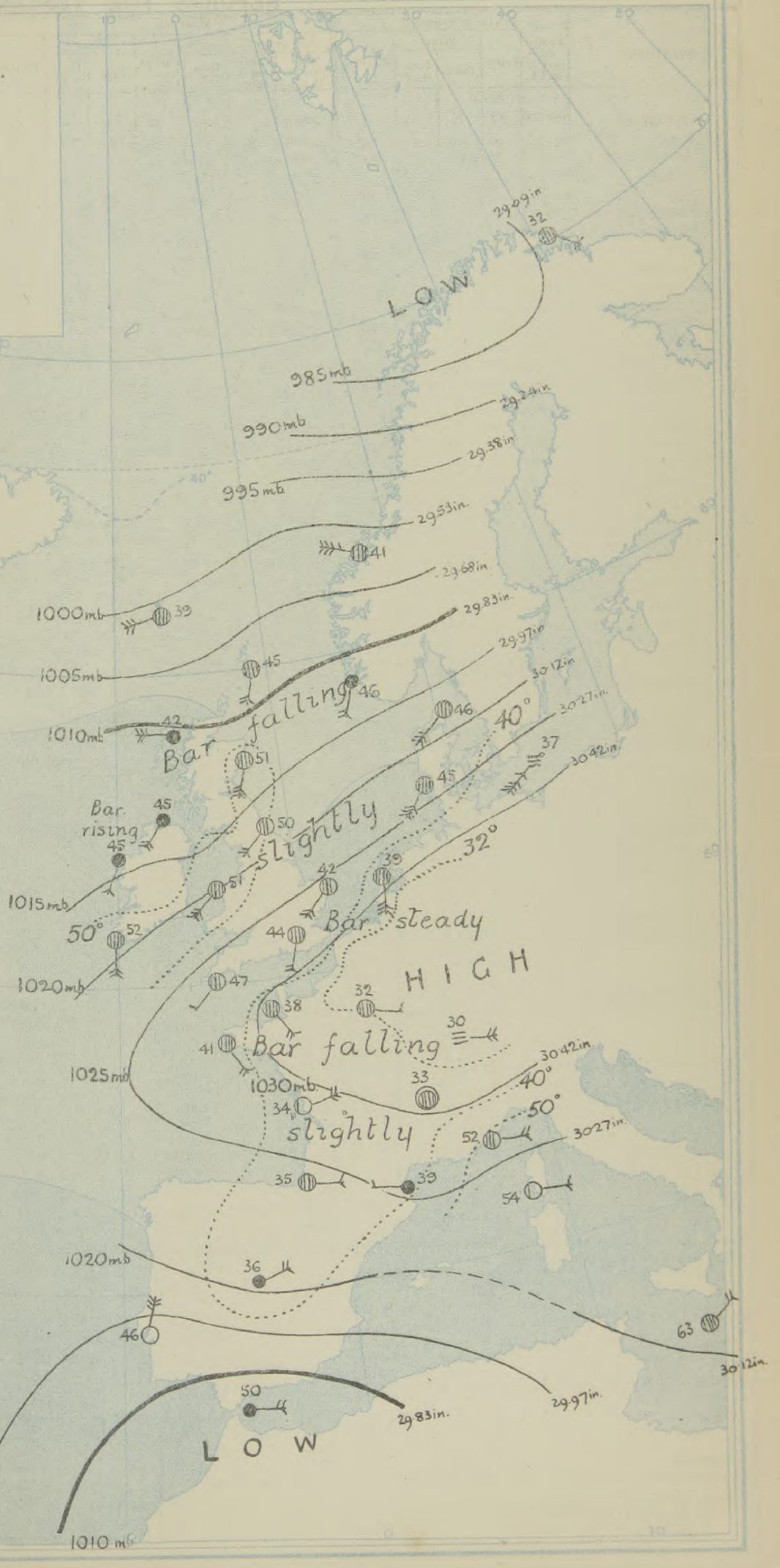
SEA DISTURBANCE.—Rough ~~ High ≈≈.

SCALE 1 : 2 x 10^6
Nautical Miles 0 1 2 3 4 5
Statute Miles 0 1 2 3 4 5 6

Normal Temperature of the Sea

Below 30° | 30°-50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for NOVEMBER.



REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F.	°F.
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1001·3	37	S	3	o	998·4	?	39	+5	S	4	o	9	*	34
	Gorki	1019·9	36	SW	2	o	1021·0	?	35	-1	SW	2	r	-	*	30
	Velieki Luki ...	1018·6	39	SSE	2	r	1019·1	*	39	-2	NE	3	o	r	*	37
	Hangö	-	-	-	-	-	1018·5	o	37	-6	-	o	c	-	*	36
	Riga	1015·0	37	-	o	o	1017·9	+1	37	-6	-	o	o	-	*	37
	Petrograd ...	1011·3	39	SW	4	b	1014·1	+1	37	-4	SSW	3	o	-	43	37
	Moscow	1026·0	39	SSW	2	b	1027·0	+1	34	-2	SSW	3	o	-	*	34
	Kiev	1025·3	36	SSW	4	f	1027·3	+1	45	+11	SSE	4	f	-	*	34
	Kharkov ...	1022·2	34	SE	3	b	1023·1	o	32	+4	SSE	2	o	-	*	28
	Kishinev ...	1023·0	45	E	1	o	1024·6	+1	41	-7	-	o	o	-	*	41
	Elisabetgrad ...	1028·6	45	SE	3	f	1029·2	o	41	+9	SE	3	f	-	*	30
	Nicolaiev ...	1027·3	37	SSE	3	o	1027·5	*	37	-2	ENE	1	r	-	*	36
	Odessa	1026·1	41	SE	4	b	1027·0	+1	39	-6	E	3	f	-	*	39
	Tarkhankout...	1024·7	39	NE	3	f	1023·0	-	37	-2	NE	3	f	-	*	37
	Soukhoum ...	1022·3	54	NNE	2	b	1021·9	o	48	-	NNE	2	o	-	*	46
Mediterranean.	Venice	1016·6	52	-	o	bc	1021·7	*	48	-2	N	1	r	Trace	54	41
	Pesaro	1015·9	52	S	2	o	1021·2	*	48	-3	SSW	1	o	3	59	46
	Rome	1012·7	55	-	o	r	1018·0	*	52	-2	NNE	2	o	1	59	52
	Viesti	1014·9	57	SE	1	b	1018·2	*	54	-3	-	o	b	-	61	54
	Brindisi	1011·6	59	SE	2	o	1017·7	*	59	o	E	1	o	6	64	52
	Cagliari	1006·2	64	NE	4	o	1014·5	*	59	+2	NE	3	o	2	68	48
	Palermo	1012·7	55	-	o	b	1018·0	*	56	-5	-	o	b	6	?	45
	Tripoli	1014·6	62	-	o	b	1016·3	*	61	+3	SSW	3	b	6	93	46
	Algiers	1008·3	55	NNW	3	o	1009·9	+2	50	-	SE	3	o	8	57	52
Sweden.	Hernösand ...	997·0	37	SW	2	b	1013·3	*	30	-9	S	2	b	*	*	*
	Stockholm ...	1006·1	37	SW	2	b	1016·4	*	34	-6	WSW	2	o	*	*	*
	Wisby	1009·7	42	SW	6	b	1018·4	*	23	-20	W	2	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Morning Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	983·9	30	-7	-	o	c
Reykjavik	985·1	34	-2	-	o	o
Vestmanna	983·9	34	-5	-	o	r
Seydisfjord	986·3	39	+16	-	o	c
Thorshavn	989·1	48	+18	SW	8	r

Hours of Observation G.M.T.

	Morning.	Evening.
	h.	h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max	Temperature Min	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F			h...
Scotland.	Oban	3	5	51	39	r.o	o	0·0
	Banff	1	-	53	33	c	c.o	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	-	-	44	30	o	o	0·0
	Skegness	Trace	-	41	26	bc o	o	0·3
Eng. N.W.	Morecambe							
	Southport	-	Trace	49	34	o.c.o	or	0·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	46	26	o	c.	0·0
Wales.	Rhyl	Trace	-	51	34	bc	o.c.bc	2·0
	Colwyn Bay...	*	*	51	39	bc	bc	1·2
	Llandudno	*	*	51	38	c	c.cr	0·1
	Aberystwyth	*	*	48	35	o.c	o.or	0·0
	Tenby	-	1	46	38	cr	r.	0·0

	STATIONS	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	-	-	42	28	bm	b.bc.	5·5
	Felixstowe	-	-	43	28	bc	bc.	6·1
	Walton-on-Naze	-	-	42	29	b bz b	b	6·6
	Southend-on-Sea	-	-	45	30	b	b	5·9
England. S.E.	Margate	-	-	45	31	b	b.bc.b	5·7
	Ramsgate	-	-	43	29	bc	bc.	6·8
	Hastings	-	-	46	32	b	b	7·2
	Eastbourne	-	-	46	27	bc.b	b	6·6
	Seaford	*	*	46	27	b	b	6·6
	Brighton	-	-	45	27	b	b	5·9
	Worthing	-	-	45	25	b	b	6·8
	Littlehampton	-	-	45	32	b	b	5·5
	Bognor	*	*	46	28	bc	bc	6·6
	Bournemouth	-	-	48	25	b bc	c	4·7
England. W.	Weymouth...	*	*	51	28	b	b.bc.	4·0
	Torquay	-	-	49	31	c.bc.c.	c.o	0·4
	Paignton	*	*	49	24	c	c	0·5
	Penzance	Trace	-	49	37	oz	oz	0·0
	Newquay	-	-	48	38	bc	bc	0·0
	Bude	-	-	49	30.	o	o.	0·0
	Ilfracombe	-	Trace	48	35.	o	r.o	0·1
	Weston-s-Mare	-	-	47	23	c.	c.o	0·2

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

29th & 30th November 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	7.39	11.41	3.43
	7.41	11.42	3.43
Greenwich	7.42	11.48	3.54
	7.44	11.49	3.54
Wick	8.35	12.0	3.26
	8.37	12.1	3.25
Valencia	8.25	12.29	4.33
	8.27	12.30	4.32

NOTES ON YESTERDAY'S WEATHER.

Rain fell rather heavily in the North-West, 10 mm. at Malin Head. Sunshine was plentiful in the South-East of the country and ranged up to 7·7 hours at Dover. Temperature has risen considerably.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No.335. Thursday. 30TH November.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING: 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 ...	1011·1	43	W	3	b	1011·8	− 2	45	0	S	4	–	0	3	3	46	39	o bcp	bc b	bc.o	*
	Deerness (Orkney)	1013.9	41	W	2	bc	1010·5	*	43	0	W	3	–	o	3	3	44	39	q r o c	cp.c.bc	bc.c.o	0·8
	Stornoway ...	1014.5	40	W	2	bc	1007·2	− 5	45	+ 3	SW	7	–	o r q	5	5	46	37	or bc	bc	bc o p q	2·4
	Castlebay (Barra Isd.)	1016·5	43	–	0	bc	10086	− 4	48	+ 3	SSE	6	–	o	6	2	48	42	d. o. bc	bc p. bc	bc. o	2·5
	Glasgow ...	10174	42	W	1	cm	1013·7	− 2	41	− 7	–	0	–	m c	*	4	49	38	o m p	o m	bc c m c	0·0
	Eskdalemuir ...	1017·1	44	–	0	o r m	1015·4	0	42	− 5	S S W	3	–	o m c	*	14	48	41	o r m	o r m	o r m. o m	0·0
	Malin Head ...	1017·7	44	W	2	bc	1010·5	− 3	42	− 3	SW	4	S W	bc	3	8	47	40	c. o	bc	bc	0·1
	Blacksod Point	10174	43	S	1	bc	10099	− 4	47	+ 2	S S W	5	SW	c p	4	1	47	40	bc	bc	bc. b c p	*
	Valencia ...	1018.7	47	W N W	1	o	10164	− 1	45	− 7	S	2	–	o	4	6	52	40	o r	o r d	c b bc. c	0·0
	Roche's Point	1019·6	50	SW	4	r	1018·2	*	48	− 3	W	2	–	o	3	7	51	48	o m	o m d	d. o	*
	Birr Castle ...	1017.9	46	SW	1	r	1015·8	*	42	− 7	S S W	1	–	c	*	4	52	41	o d r	o d r	o d r c	0·0
	Donaghadee ...	1016·8	46	N	1	q m p d	1014·0	0	42	− 8	SW	3	–	c q m	2	3	51	41	o q r	o q m p d	o m p d	*
	Liverpool (Bidston)	1019·9	50	S S W	4	o	1018·7	0	49	− 1	S	3	S	o	3	–	53	47	o	o	o	0·0
	Holyhead ...	1018 7	51	SW	5	o c q m	10168	− 1	49	− 2	SW	6	–	o d q m	5	4	52	49	o p d m	o. o p m	o p e d m	0·0
	Pembroke (St. Ann's)	1021·9	50	S S W	5	o	1020·0	− 2	49	− 1	S S W	4	–	o q	4	1	51	47	b c q	o q	o q	0·3
	Scilly (St. Mary's)																					
	Falmouth ...	1025.2	47	S S W	2	b c z	10222	− 1	38	− 9	S S W	1	–	b	*	–	53	36	c. o. c	c. b c. c	bc. b x	0·4
	Jersey (St. Aubin)	1026.6	37	S E	3	o	1023·0	*	34	− 4	E	3	–	o m	2	–	40	32	o. c. o	o . c . o	c. o m	2·8
	Portland Bill ...	10249	46	S	3	o	1023·4	− 1	43	− 4	S E	2	S E	o	2	–	49	40	o	o	o	*
	Dungeness ...	1026·7	39	S S W	3	b	1024·2	− 1	37	− 5	S S E	3	S E	c	3	–	44	37	bc	bc	bc	*
	Dover	1027.9	38	S	3	bc	1025·0	− 1	45	+ 4	S S E	2	S	o	4	–	45	35	o. c. b c. c	c . b c	c . o	1·8
	Wick	1014·3	36	S W	1	bc	1010·8	− 4	43	+ 2	S S W	2	–	c	2	0·4	44	34	o d. bc	bc	bc. o m q	*
	Nairn	1015·7	36	–	0	b o x	1010·6	*	35	− 7	–	0	–	c x	1	1	42	30	d. c. bc	c . bc	b c x	0·2
	Aberdeen	1016.9	40	W N W	1	b	10130	− 3	38	− 13	S W	1	–	c m	2	3	51	33	o r: o	o. c. b c. b	b c p c m	0·0
	Leith	1016.3	45	S W	1	c	10136	− 1	42	− 8	S W	1	S W	b	2	3	51	40	c o p q. o	o q. o m. c	c o m c b	*
	Tynemouth ...	1017·0	52	S W	3	o m	1015·5	− 1	50	0	S W	3	W	c m q	3	–	52	50	c m	o m	c m q	*
	Spurn Head ...	1022·0	48	S W	4	c	1020·7	0	42	?	S S W	4	–	c m	4	–	49	42	bc	c	c o	0·0
	Yarmouth	1025.9	42	S W	4	o	10234	0	40	− 2	S W	2	–	o m	2	–	44	40	c . o m	o m	o m	0·0
	Clacton-on-Sea	1026·8	42	S S W	3	o	1024·3	− 1	39	− 4	S S W	2	S W	o	2	–	43	39	o q	o q	o q	0·0
	Nottingham ...	10229	48	S W	3	o	10213	*	44	− 2	S W	3	S W	o	*	–	50	44	o. c	c. o	o. c b	1·3
	Benson (Oxon.) ...	1025.0	42	S	4	o	1023·1	0	39	− 5	S	2	–	o	*	–	45	39	o m.	o m	o	*
	Sth Farnborough	1025·8	41	S	3	o	1023·3	− 1	39	− 5	S	2	–	o m	*	Trace	44	38	d o m	o m	o m	0·0
	London (Kew Obsy.)	1026·5	43	S S W	3	o	1024·0	− 1	39	− 5	S	2	–	o m	*	–	45	39	o	a o m. o	o. o m	0·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1018·3	46	SW	5	o	1020·2	+ 1	46	0	SW	4	–	r	4	Trace	50	41				
	Blaavands Huk	10239	45	S W	4	o	1024·2	0	43	− 2	SW	3	–	o	4	Trace	45	43				
	Copenhagen ...	1027·1	41	W S W	3	o	1027·1	+ 1	39	0	W S W	4	–	c	*	–	41	37				
	Bornholm ...	10274	39	SW	7	m	1028·4	+ 2	34	− 3	SW	6	–	m	2	–	41	30				
FRANCE, &c.	The Helder ...	1027·5	36	S S W	4	o	1025·6	0	38	− 11	S S E	3	–	f	2	–	41	28				
	C Gris Nez ...	10277	30	SW	3	m	1025·0	− 1	38	− 4	S	2	*	m	1	Trace	34	28				
	La Hève	*	31	S E	3	m	*	*	30	− 2	S E	3	*	m	2	–	36	28				
	Brest (St. Mathieu)	1025·5	36	S E	3	o	10235	− 1	32	− 9	N E	2	*	m	2	–	43	30				
	Rochefort (Ile d'Aix)	1023·5	38	E N E	4	o	1018.6	− 1	37	+ 3	E	4	*	o	*	–	43	34				
	Biarritz	10202	39	E N E	1	o	1015·7	0	41	+ 6	S S E	2	*	o	2	–	43	34				
	Paris	10282	36	E	2	o	10247	− 1	32	0	E S E	2	–	o	*	–	36	32				
	Belfort	1030.9	30	E	4	f	1027·0	*	25	− 5	E	2	*	m	*	–	37	24				
	Lyons	1027.9	33	–	0	b	1025·5	*	32	− 1	–	0	*	f	*	–	39	31				
	Nice	1022.6	53	–	0	b	1021·7	+ 1	58	+ 6	E	5	*	o	6	–	59	48				
	Perpignan ...	1021·0	43	N W	1	r	1015·8	+ 1	46	+ 7	S	1	–	t l r	*	37	52	39				
	Sanguinaire ...	1019.7	57	N	1	c	1018.6	*	56	+ 2	E	1	*	b	3	–	63	48				
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon	1010.9	52	N N E	3	c	1011·4	+ 1	46	0	?	5	–	b	5	–	55	46				
	Azores (Horta) ...	1025.6	*	S S E	2	bc	1026·1	0	59	+ 2	W	2	*	o	1	–	68	57				
	Madeira	1017·9	64	N	4	o	1020.6	+ 2	61	− 2	N	4	N	o	4	–	66	59				
	Gibraltar	1008·4	53	W	6	b	1008·1	*	51	+ 1	N W	5	*	b	3	39	54	48				
	Malta	*	*	*	*	*	1021·1	+ 1	64	+ 1	E	4	–	o	4	–	70	63				
	Limassol	*	*	*	*	*	1016.3	+ 1	64	+ 5	E N E	2	–	b	3	–	77	48				
	Alexandria ...	1018·9	68	N E	3	b	1019.0	0	70	− 2	E N E	2	N E	b	1	–	75	66				
	Cairo (Helwan) ...	1017.3	66	N	2	b	1017.6	+ 2	57	− 7	N	1	–	b	*	–	77	55				

Aurora was observed during last night at Lerwick (19h–20h) and Aberdeen.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	85	90	0.0	45	38	38	–	o	o	p c o
CITY (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	84	89	0.0	46	39	39	–	o m	o m	o m
CAMDEN SQ. (British Rainfall) ..	85	88	0.0	46	39	38	–	o	o	*
HAMPSTEAD (Reservoir)	*	94	0.0	43	36	28	–	o m	o	o m
S. KENSINGTON (Museum Grounds)	*	86	0.0	?45	38	38	–	o	o	o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

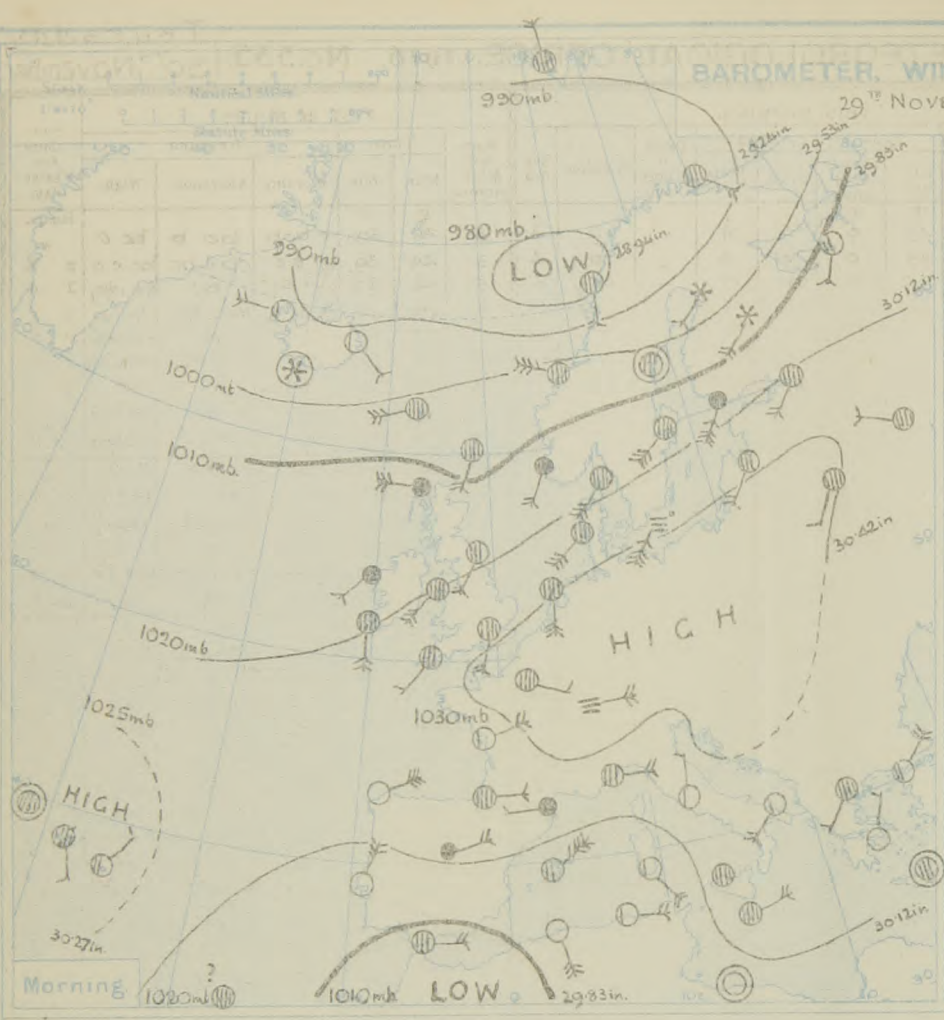
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
72	2·4	7·0

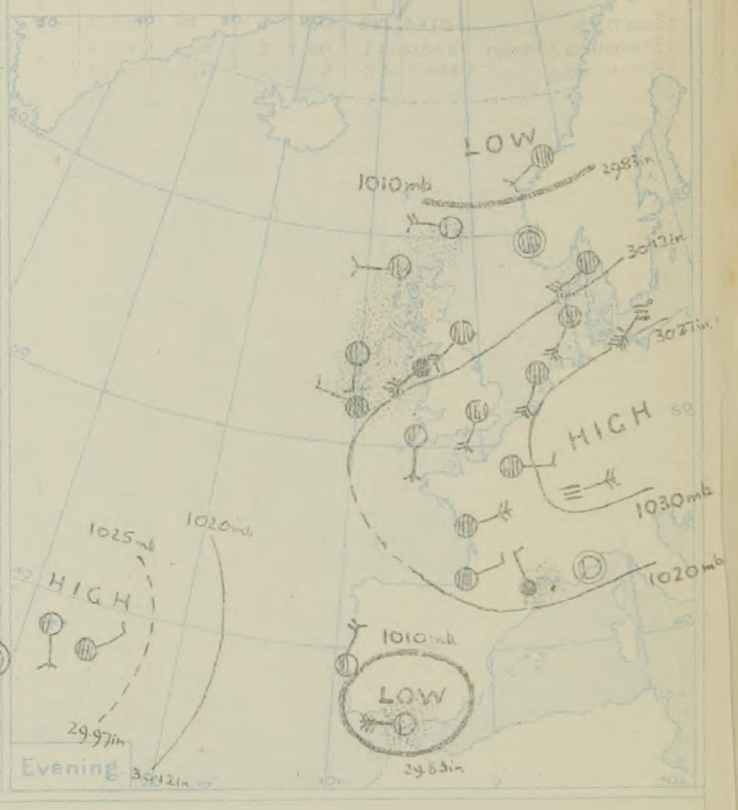
Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

BAROMETER, WIND AND WEATHER FOR 29TH NOVEMBER, 1916.



Norɛ.—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 — South-Westerly winds, becoming fresh or strong; dull, some rain; mild.

2 a, b — Moderate South-Westerly winds, increasing; cloudy, some showers, probably rain later; mild.

3, 4, 5 — Light Southerly or South-Easterly winds, then freshening Southerly; cloudy, some showers; normal temperature.

6 a, b — Strong or high Southerly or South-Westerly winds; dull, some rain; mild.

7 a, b — Same as Nos. 0 - 1.

8 a, b — Moderate Southerly winds, then increasing; cloudy, some showers, becoming milder.

9 a, b, 10 a, b — Same as Nos. 0 - 1.

Western Channel and Bay 11 — Moderate winds between East and South; slight or moderate sea; cloudy, some showers.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 30TH NOVEMBER, 1916.

GENERAL INFERENCE.

The depression lying to the North-West of Scotland is likely to spread South-Eastwards and gradually to affect the whole country.

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. ϒ thunder.
ϒ⚡ thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ~~~

1000mb 1005mb 1010mb 1015mb 1020mb 1025mb

LOW

29.53in. 29.68in. 29.83in.

Barometer falling slightly

Bar. rising slightly

HIGH

Bar. falling

30·27in. 30·12in. 29·97in.

LOW

HIGH

SCALE 1:12·10
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 50° 50°-60° 60°-70° Above 70°

Scale of Tints for NOVEMBER.

Issue No. 20,087. **DAILY WEATHER REPORT.** Thursday, 30th November, **1916**

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
Russia, 7 a.m. and 9 p.m. Local Time.	Archangel ...	1013.8	30	W	4	c	1014.3	0	38	-1	SW	2	bc	-	*	21
	Gorki	1026.0	37	SSW	2	o	1023.9	?	34	-2	SSW	1	o	2	*	34
	Velieki Luki ...	1026.7	37	SSW	2	o	1030.1	*	37	-2	NW	2	o	-	*	36
	Hangö	-	-	-	-	-	1016.8		41	+4	SW	8	r	1	*	34
	Riga	1026.3	37	SSW	2	b	1029.3	-1	36	-1	SSW	3	c	-	*	34
	Petrograd ...	1019.8	37	W	4	bc	1021.9	0	37	0	SW	3	o	-	39	32
	Moscow	1026.7	34	SSW	3	o	1028.7	+2	37	+3	WNW	2	o	-	*	34
	Kiev														*	
	Kharkov ...														*	
	Kishinev ...														*	
	Elisabetgrad ...														*	
	Nicolaiev ...						*								*	
	Odessa														*	
	Tarkhankout...														*	
	Soukhoum ...						*								*	
Mediterranean.	Venice	1021.3	48	NNE	1	o	1029.2	*	46	-2	-	o	Hr	1	50	46
	Pesaro	1026.7	48	WSW	1	r	1029.9	*	48	0	W	1	o	1	54	46
	Rome	1023.3	57	-	o	b	1025.5	*	48	-4	N	1	b	Trace	63	48
	Viesti	1025.2	?	W	1	b	1026.6	*	57	+3	-	o	b	-	61	52
	Brindisi	1019.9	59	N	2	b	1025.4	*	64	+6	SW	3	b	-	64	59
	Cagliari	1017.4	59	SE	4	b	1021.4	*	61	+2	SE	4	b	-	70	50
	Palermo	1022.0	55	-	o	b	1023.7	*	54	-2	-	o	o	-	70	48
	Tripoli	1018.9	57	-	o	b	1018.8	*	57	+6	-	o	c	-	66	50
	Algiers	1013.5	59	SE	2	c	1013.0	0	61	+6	SSE	5	b	-	63	54
Sweden.	Hernösand ...	1008.6	34	S	4	o	1002.0	*	39	+9	-	o	c	*	*	*
	Stockholm ...	1019.8	34	S	2	b	1015.4	*	43	+9	SW	6	o	*	*	*
	Wisby	1024.3	41	W	4	b	1023.4	*	39	+6	SW	6	o	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0–12.	Weather.
Isafjord ...	990.1	30	0	W	3	b
Reykjavik	992.5	28	-6	-	o	b
Vestmanna	993.6	34	0	-	o	s
Seydisfjord	991.9	36	-3	SE	2	b
Thorshavn	1000.9	39	-9	WSW	5	o

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

	STATIONS.	Rainfall. Night. 18h-9h. Mm.	Rainfall. Day. 9h-18h. Mm.	Temperature. Max. F.	Temperature. Min. F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
Scotland.	Oban	13.	2.	45	44	r.o	bc.	0.2
	Banff	13.	Trace	43	35	or c.	bc. b	0.1
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	-	1	50	42	op	op	0.0
Eng. N.E.	Harrogate	Trace	-	51	43	c. bc	c. c	1.8
	Skegness	-	-	47	30	c f o	o.	2.4
Eng. N.W.	Morecambe	1	-	50	47			0.0
	Southport	-	-	52	46	c.o	o	0.0
Midlands.	Leamington Spa							
	Malvern	-	-	48	43	o.c	c.o	1.0
	Ross-on-Wye	-	-	49	43	o	o.	0.1
Wales.	Rhyl							
	Colwyn Bay...	*	*	54	49	c	bc.	0.1
	Llandudno	*	*	58	49	c	c	0.0
	Aberystwyth	*	*	50	46	r.o	c.o	0.1
	Tenby	3.	1	50	46	o d	bc. d	0.0

	STATIONS.	Rainfall. Night 18h-9h. Mm.	Rainfall. Day 9h-18h. Mm.	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
England, E.	Lowestoft	-	-	45	35	o	o c	0.0
	Felixstowe	Trace	Trace	43	30	op	o.	0.0
	Walton-on-Naze							
	Southend-on-Sea	-	-	43	36	o	o.	0.0
England, S.E.	Margate	-	-	44	35	o	o.	0.1
	Ramsgate	-	-	42	37	bc	bc. o	0.5
	Hastings	-	-	46	38	o	o.c.	0.3
	Eastbourne	-	-	44	37	o bc	o	0.3
	Seaford	*	*	47	38	o	bc	0.7
	Brighton							
	Worthing	-	-	44	40	o	o.	0.0
	Littlehampton	-	-	44	41	o	o.	0.0
	Bognor	*	*	45	42	o	o bc	0.0
	Bournemouth	-	-	48	34	o	o.	0.0
England, S.W.	Weymouth...	*	*	50	46	o c	c.o	0.0
	Torquay	-	-	52	40	o.c	c.o	0.6
	Paignton	*	*	53	39	c	c	1.0
	Penzance	Trace	-	53	47	c bc	c	1.0
	Newquay	-	-	51	40	o	o	0.3
	Bude	-	-	51	41	o	o bc	0.2
	Ilfracombe	Trace	-	50	40	o	o.	0.0
	Weston-s-Mare	-	-	49	39	bc. c.o.	o.c.	0.1

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

30th Nov. & 1st Dec. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	7.41 / 7.42	11.42 / 11.42	3.43 / 3.43
Greenwich	7.44 / 7.45	11.49 / 11.49	3.54 / 3.54
Wick	8.37 / 8.38	12.1 / 12.1	3.25 / 3.25
Valencia	8.27 / 8.28	12.30 / 12.30	4.32 / 4.32

NOTES ON YESTERDAY'S WEATHER.

A good deal of rain fell in the North-West. Sunshine was scanty everywhere. Temperature yesterday was about normal.

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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‡ The barometric change is expressed in half-millibars.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

NOVEMBER, 1916.

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 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
.	Lisbon	1012·7	64	W	2	b	1010·7	0	58	[illegible]		[illegible]		[illegible]	1		66	57				
.	Azores	.	.	.	.	.	1046·6	0	51	-2	NNW	4		b	2	–	68	57	.	.	.	.
2	Lisbon	1017·6	62	SW	3	c	1020·2	+1	57	-2	–	0	–	b	6	Trace	66	57	.	.	.	.
.	Azores	.	.	.	.	.	1012·4	-2	65	+8	WSW	9	.	b	4	1	66	57	.	.	.	.
3	Sanguinaire	.	62	N	3	b	.	.	58	+1	N	2	.	b	2	–	66	54	.	.	.	.
4	Roche's Point	978·9	50	SW	9	r	986·7	.	49	-3	SW	3	W	c	5	7	?	43	c. or	or	r. bc. c	.
.	Biarritz	1002·4	73	SSW	5	0	1001·7	–	65	+2	SSE	3	.	c	2	–	73	63	.	.	.	.
.	Lisbon	1007·3	61	W	3	bc	1004·8	0	64	+3	SSW	7	.	0	8	23	82	59	.	.	.	.
5	Scilly	.	.	.	.	.	960·1	+5	51	+1	NW	7	NW	omqr	7	10	54	47	.	.	.	0·0
.	Lyons	1001·0	61	WSW	1	0	999·0	.	51	-8	NNE	1	.	r	.	11	65	51	.	.	.	.
.	Corunna	992·1	55	SSW	7	0	999·8	+4	52	-9	SW	6	.	bc	5	10	68	48	.	.	.	.
6	Scilly	983·5	51	WNW	8	cmq	999·0	+6	49	-2	WNW	6	W	c	7	1	52	47	ompq	cmq	cq	0·0
.	Dungeness	976·1	55	SSW	11	r	993·1	+4	49	-6	WSW	5	SW	bcq	5	11	56	48	cq	c. or	op. bc	.
.	Madrid	1011·3	50	WSW	2	bc	1020·8	+5	45	-1	W	2	NW	c	.	Trace	55	37	.	.	.	.
.	Lisbon	1017·1	59	WSW	3	bc	1019·9	+1	55	-4	SW	1	–	0	7	–	63	55	.	.	.	.
.	Azores	.	.	.	.	.	1005·0	-1	66	+3	S	9	.	0	5	–	68	63	.	.	.	.
7	Scilly	999·9	47	SW	3	omr	984·1	-5	53	+4	SW	5	SW	om	6	14	54	46	cq/p	cq/p	omr	2·7
.	Spitzbergen	1029·3	-11	–	0	b	1028·6	+2	-13	-4	SSE	1	.	b	.	.	-9	-13	.	.	.	.
.	Vardö	1010·1	30	SE	5	s	999·1	-3	34	+4	SE	3	.	0	3	.	34	23	.	.	.	.
.	Bodö	992·4	39	E	4	c	993·3	0	43	+7	E	2	.	b	1	.	43	36	.	.	.	.
.	Christiansund	988·6	54	SE	2	0	993·6	+1	46	-6	SE	3	.	c	3	3	54	45	.	.	.	.
.	Skudesnaes	989·6	48	SE	4	0	993·7	0	46	-4	S	6	.	c	5	2	50	43	.	.	.	.
.	Faerder	996·0	48	S	6	0	1001·5	+1	46	-2	S	4	W	bc	3	3	48	45	.	.	.	.
.	Sanguinaire	.	58	NW	3	c	.	.	48	-10	E	3	.	bc	5	.	63	48	.	.	.	.
.	Lisbon	1011·0	63	S	4	0	1015·0	+1	64	+9	SSW	5	.	0	6	2	64	?56	.	.	.	.
.	Madeira	1020·3	70	W	3	0	1020·0	0	64	+1	W	2	.	bc	2	–	72	?63	.	.	.	.
.	Gibraltar	1020·6	59	NW	4	0	1019·3	.	53	-3	NW	3	.	b	2	–	67	53	.	.	.	.
8	Scilly	979·1	50	WSW	2	cm	988·1	+4	50	-3	WNW	7	W	cq/p	6	18	55	45	cmq/p	cmq/ptl	cq/p	2·7
.	Corunna	1001·5	63	SW	6	0	1011·8	+6	55	-5	WNW	4	.	c	3	13	66	52	.	.	.	.
.	Madrid	1012·4	54	–	0	0	1013·0	+3	50	+1	WSW	2	.	r	.	2	55	48	.	.	.	.
9	Scilly	1000·5	49	NW	8	c	1010·6	+6	48	-2	WNW	6	NW	bcq	6	1	52	44	cq. bcq	bcq/p	cq/p. bcq	3·9
.	Biarritz	1010·7	54	WNW	6	r	1016·4	+3	54	-5	NW	5	.	0	5	26	59	46	.	.	.	.
.	Lyons	1005·1	49	–	0	b	1011·4	.	40	-11	NW	2	.	b	.	–	60	40	.	.	.	.
.	Corunna	1017·6	54	W	3	bc	1025·7	+3	54	-1	WNW	3	NW	bc	3	3	59	50	.	.	.	.
.	Madrid	1014·1	50	WNW	2	b	1023·4	+3	45	-5	WNW	3	NW	b	.	1	55	43	.	.	.	.
.	Lisbon	1023·3	57	WNW	3	c	1024·6	+1	54	-5	–	0	–	b	8	–	63	52	.	.	.	.
.	Madeira	1022·6	72	N	3	0	1023·4	0	66	0	E	3	–	bc	3	–	73	66	.	.	.	.
10	Scilly	1020·9	60	WNW	6	cq	1020·7	+2	54	+6	WNW	4	–	fe	5	9	54	44	bcq	c	omr fe	3·2
.	Lisbon	1027·5	57	NNW	3	bc	1027·0	+1	50	-4	N	3	–	b	5	–	61	50	.	.	.	.
11	Scilly	1026·9	52	W	2	fe	1030·0	+1	50	-4	W	1	–	fe	4	1	55	49	fe	fe	fe	0·0
.	Spitzbergen	1017·2	6	–	0	0	1013·5	-1	21	+19	NW	2	–	bc	.	.	21	-4	.	.	.	.
.	Vardö	1008·8	36	N	1	0	1023·3	+3	30	-7	N	1	–	b	.	.	37	30	.	.	.	.
.	Bodö	1015·7	36	–	0	b	1015·1	0	32	-9	E	1	–	b	1	.	41	30	.	.	.	.
.	Christiansund	1014·7	43	–	0	0	1012·4	-1	46	+5	–	0	–	b	3	–	46	41	.	.	.	.
.	Skudesnaes	1016·0	48	S	4	r	1013·6	-1	48	0	SSE	5	–	o	3	6	48	45	.	.	.	.
.	Faerder	1019·7	48	SSW	4	0	1017·0	0	46	-2	SSW	2	–	o	1	–	48	46	.	.	.	.
.	Biarritz	1029·3	54	N	2	0	1029·6	0	43	-3	E	1	–	o	2	–	55	41	.	.	.	.
.	Sanguinaire	.	56	NW	3	0	.	.	63	+7	E	2	–	b	2	–	63	54	.	.	.	.
.	Corunna	1029·7	57	N	3	bc	1027·3	-1	57	+9	NNE	2	–	b	3	–	59	48	.	.	.	.
.	Madrid	1023·3	46	NNE	3	b	1027·3	+3	43	0	N	1	–	b	5	–	55	37	.	.	.	.
.	Lisbon	1024·0	59	NNE	4	b	1021·3	+1	54	+4	NNE	4	–	b	4	–	63	50	.	.	.	.
.	Madeira	1016·6	72	SE	3	bc	1016·0	-2	70	-2	SE	3	–	b	2	–	76	63	.	.	.	.
.	Malta	.	.	.	.	.	1009·1	+3	57	+2	SSE	4	–	b	4	5	72	55	.	.	.	.
12	Scilly	1030·9	49	–	0	fe	1030·3	0	50	0	–	0	–	fe	4	1	53	48	.	.	.	.
13	Scilly	1028·7	48	–	0	fe	1027·5	-1	47	-3	ESE	2	–	m	3	0·3	51	45	fe	fe	fe. m	0·1
.	Corunna	1020·4	61	–	0	b	1021·5	+2	50	+2	–	0	–	b	1	–	63	45	.	.	.	.
.	Madrid	1021·3	57	–	0	b	1024·3	0	41	-5	–	0	–	b	6	–	61	39	.	.	.	.
.	Lisbon	1018·3	66	NNE	3	b	1019·7	+1	52	0	NNE	3	–	o	3	–	66	52	.	.	.	.
.	Azores	.	.	.	.	.	1010·1	0	61	-1	WSW	4	–	o	1	–	66	59	.	.	.	.
14	Scilly	1026·6	50	SE	3	fe	1026·7	0	50	+3	SE	3	–	omd	3	0·3	50	47	om. fe	fe. omd	fe. omd	0·0
.	Corunna	1022·0	59	W	1	b	1022·0	+1	60	0	SE	3	–	b	1	–	61	45	.	.	.	.
.	Madrid	1019·4	61	W	1	b	1023·4	+1	45	+4	–	0	–	b	2	–	63	41	.	.	.	.
15	Scilly	1026·7	50	SE	4	omd	1024·6	-1	51	+1	SE	5	SE	o	5	0·1	51	48	om	omd	om. o	0·0
.	Tynemouth	1031·0	47	SSE	2	0	.	.	.	.	.	.	.	.	.	.	.	.	cm	om	.	.
.	Sanguinaire	.	63	E	2	c	.	.	57	0	E	4	.	c	4	–	64	48	.	.	.	.
.	Madrid	1018·3	63	W	1	b	1018·3	0	41	-4	–	0	–	b	3	–	64	39	.	.	.	.
.	Azores	.	.	.	.	.	1021·0	0	64	+7	SW	9	.	r	2	–	64	?57	.	.	.	.
.	Malta	.	.	.	.	.	1009·6	+1	59	0	W	3	.	op	3	–	72	57	.	.	.	.
16	Castlebay	.	.	.	.	.	1014·0	-1	48	-4	SE	6	.	o	6	0·3	52	47	.	.	op	0·0
.	Scilly	1022·0	50	SE	6	c	1017·3	-2	49	-2	SSE	5	SE	o	5	–	52	47	c	c	c. o	0·0
.	Spitzbergen	1000·6	9	S	1	0	1007·8	+5	12	0	N	4	.	o	4	–	16	5	.	.	.	.
.	Vardö	1008·0	30	W	4	0	1006·7	-3	36	-1	ENE	2	.	o	2	–	37	21	.	.	.	.
.	Bodö	1015·0	39	SW	6	0	1025·6	0	43	+4	SW	6	.	o	3	–	43	37	.	.	.	.
.	Christiansund	1032·8	39	–	0	0	1031·3	0	39	+5	–	0	.	o	4	–	39	32	.	.	.	.
.	Skudesnaes	1033·6	41	SE	4	b	1031·5	0	39	-4	ESE	4	.	o	2	–	43	37	.	.	.	.
.	Faerder	1035·5	34	ENE	1	b	1033·3	-1	30	-4	NE	2	.	o	1	–	34	30	.	.	.	.
.	Sanguinaire	.	61	E	1	r	.	.	49	-8	E	2	.	c	1	–	61	43	.	.	.	.
.	Madrid*	1011·4	59	–	0	b	1017·5	+1	43	+2	NE	1	.	o	1	–	61	39	.	.	.	.
.	Lisbon	1017·6	59	NNW	4	b	1015·7	-1	57	-2	N	1	.	o	1	–	66	55	.	.	.	.
17	Castlebay	.	.	.	.	.	1000·6	-3	41	-7	SE	8	.	op	2	–	48	40	.	.	.	.
.	Scilly	1007·2	48	SSE	7	om	988·3	-8	48	-1	SSE	9	SE	omr	9	16	50	47	om	om	og. og. omr	0·0
.	Spitzbergen	1014·3	10	–	0	s	1012·8	0	10	-2	NW	2	.	o	2	.	12	9	.	.	.	0·8
.	Sanguinaire	.	52	N	2	0	.	.	50	+1	E	3	.	r	3	–	57	45	.	.	.	.
.	Corunna	1011·4	57	SSE	3	0	998·1	-3	61	+13	SW	5	.	o	4	5	59	39	.	.	.	.
.	Lisbon	1016·0	61	WNW	2	bc	1013·0	-2	59	+2	SSW	4	.	o	3	–	63	55	.	.	.	.
.	Gibraltar	1016·6	58	W	3	b	1016·9	.	59	+2	W	3	.	bc	3	–	69	53	.	.	.	.
18	Scilly	986·9	47	WNW	4	cp	971·1	-8	45	-3	E	6	E	cp	6	18	52	44	or. cp	cp	bcv. cp	2·3
.	Spitzbergen	1012·2	14	N	1	s	1003·3	-3	16	+6	N	5	.	s	5	.	16	9	.	.	.	.
.	Sanguinaire	.	50	SW	1	r	.	.	50	0	S	4	.	r	4	26	?62	48	.	.	.	.
.	Madrid	1003·8	50	WNW	1	0	987·3	–	54	-5	WSW	5	.	o	5	6	?59	48	.	.	.	.

REPORTS FOR NOVEMBER, 1916.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
			F.						°F.	°F.							°F.	°F.				Hours.
18	Lisbon	1007·4	63	SSW	6	r	1007·0	0	61	+2	WSW	7	–	0	?	4	64	59	·	·	·	·
·	Azores	·	·	·	·	·	1017·0	+2	55	−11	WNW	5	·	bc	3	–	68	55	·	·	·	·
·	Madeira	1017·1	70	W	3	r	1016·9	0	70	−7	W	3	N	r	3	?	77	63	·	·	·	·
·	Gibraltar	1015·6	62	W	6	b	1010·1	·	62	+3	W	8	·	0	7	–	65	58	·	·	·	·
·	Malta	·	·	·	·	·	1011·3	−1	64	+5	SSW	3	–	0	1	–	70	59	·	·	·	·
19	Scilly	974·3	41	N	4	omp	976·9	+1	43	−2	NW	6	N	0	6	0·2	46	37	cm	omp	0·c	0·0
·	Spitzbergen	993·3	34	WNW	4	0	995·4	+2	21	+5	ESE	2	·	b	·	·	34	14	·	·	·	·
20	Scilly	979·9	44	NW	6	cq/p	986·1	+2	47	+4	NW	7	NW	cq/p	6	3	48	39	c	cq/p	cq/p	1·6
·	Spitzbergen	1004·3	10	E	2	b	1010·1	+5	0	−21	N	1	·	0	·	·	21	−9	·	·	·	·
·	Sanguinaire	·	57	W	5	0	·	·	52	–	E	5	·	r	6	9	63	50	·	·	·	·
·	Madrid	996·4	45	W	3	c	1005·9	+5	41	−4	W	2	–	c	·	5	48	37	·	·	·	·
·	Lisbon	1002·4	54	WNW	4	0	1010·0	+1	50	−4	SW	2	–	0	·	Trace	59	48	·	·	·	·
·	Azores	·	·	·	·	·	1010·6	+1	64	+8	WSW	9	–	m	4	–	64	?56	·	·	·	·
·	Madeira	1017·3	68	NW	4	bc	1019·4	0	61	−2	NW	3	–	bc	4	–	73	61	·	·	·	·
21	Scilly	992·8	48	W	5	cq/p	997·7	+3	45	−2	NW	4	NW	bc	6	1	51	43	c.bc	bcq	bcvp	4·7
·	Spitzbergen	1010·7	5	S	1	s	1003·1	·	−7	+7	N	5	·	s	·	·	·	·	·	·	·	·
·	Sanguinaire	·	53	N	4	r	·	·	53	+8	NW	5	·	0	6	23	57	48	·	·	·	·
·	Madrid	1008·4	43	WSW	2	c	1010·6	+1	41	0	–	0	–	0	·	–	49	40	·	·	·	·
·	Lisbon	1008·6	54	SSW	2	r	1003·5	+1	50	0	NNE	2	–	r	7	6	55	50	·	·	·	·
·	Azores	·	·	·	·	·	1007·8	0	65	+1	WSW	9	·	m	6	–	68	64	·	·	·	·
·	Malta	·	·	·	·	·	1014·4	–	61	−7	SW	2	·	bc	1	–	77	52	·	·	·	·
22	Scilly	1004·1	45	NW	2	bcv	1012·6	+2	46	+1	W	2	W	c	4	–	51	42	bc	bcv	b.bcv	4·8
·	Spitzbergen	1000·2	21	N	3	0	999·9	·	19	+12	S	4	·	s	·	·	·	·	·	·	·	·
·	Sanguinaire	·	55	W	4	0	·	·	51	–	NW	3	·	0	5	–	59	48	·	·	·	·
·	Corunna	1003·1	55	SSE	4	0	1015·4	+6	54	+6	SSW	3	·	0	3	4	57	48	·	·	·	·
·	Madrid	1008·6	43	–	0	0	1016·8	+7	39	−15	–	0	–	b	·	?	54	39	·	·	·	·
·	Lisbon	1003·9	54	NNE	3	r	1015·2	+5	55	+5	NW	1	–	b	7	36	55	50	·	·	·	·
·	Azores	·	·	·	·	·	1011·7	+2	64	−1	SSW	8	·	m	4	–	70	63	·	·	·	·
·	Malta	·	·	·	·	·	1012·8	0	66	–	SSW	2	–	0	1	–	72	61	·	·	·	·
23	Scilly	1019·0	52	SW	3	cv	1021·6	−1	52	+6	SSW	4	SW	od	5	1	53	43	bcv	bcv	od	6·0
·	Spitzbergen	994·4	19	NW	6	0	998·6	·	1	−18	–	0	·	b	·	·	·	·	·	·	·	·
·	Belfort	1020·0	40	W	2	c	1032·2	·	32	−4	W	2	·	0	·	6	41	28	·	·	·	·
·	Corunna	1021·3	57	WNW	1	c	1027·9	·	48	−6	SE	3	·	c	2	–	59	45	·	·	·	·
·	Lisbon	1021·6	68	NW	4	b	1028·0	+2	46	−9	N	2	–	0	6	–	?68	46	·	·	·	·
·	Azores	·	·	·	·	·	1013·3	+1	65	+1	S	7	·	f	5	–	68	64	·	·	·	·
·	Madeira	1022·9	73	N	2	0	1024·6	0	66	+2	NE	3	·	bc	3	–	77	64	·	·	·	·
24	Scilly	1016·1	53	SSW	6	omr	1016·5	0	54	+2	WSW	5	W	odm	6	5	54	51	0	omr	fe.omd	0·0
·	Spitzbergen	998·3	1	–	0	0	991·4	·	7	+6	S	1	·	0	·	·	·	·	·	·	·	·
·	Sanguinaire	·	54	E	2	b	·	·	53	+6	E	2	·	bc	3	–	57	45	·	·	·	·
·	Corunna	1028·8	57	SW	5	c	1029·5	+1	54	+6	SE	2	W	b	2	–	59	?48	·	·	·	·
·	Madrid	1029·2	52	W	1	bc	1032·8	+1	36	0	–	0	·	b	·	–	62	33	·	·	·	·
·	Lisbon	1028·8	55	·	0	c	1030·3	+1	48	+2	NNW	2	·	b	6	–	55	48	·	·	·	·
·	Azores	·	·	·	·	·	1021·0	0	64	−1	SSW	7	·	f	4	23	66	63	·	·	·	·
·	Malta	·	·	·	·	·	1017·0	+4	54	−4	NW	2	·	c	1	–	66	55	·	·	·	·
25	Scilly	1022·2	51	W	4	c	1011·0	−5	50	−4	WSW	4	SW	c	5	0·4	54	49	odm	c	cm.c	0·4
·	Spitzbergen	987·8	7	E	5	b	991·9	·	1	−6	ENE	7	·	b	·	·	–	–	·	·	·	·
·	Sanguinaire	·	56	E	3	b	·	·	54	+1	E	3	·	b	3	·	59	46	·	·	·	·
·	Lisbon	1028·8	61	NNW	3	b	1026·6	−1	48	0	N	2	·	b	5	–	61	48	·	·	·	·
·	Azores	·	·	·	·	·	1028·0	–	62	−2	NNE	5	·	r	3	3	70	63	·	·	·	·
·	Madeira	1027·1	68	ENE	3	0	1026·7	+1	61	−2	NE	3	·	b	2	–	72	61	·	·	·	·
·	Malta	·	·	·	·	·	1017·1	+3	64	+9	SE	7	·	c	7	43	73	56	·	·	·	·
26	Scilly	1004·8	45	NW	8	cq/p	1007·7	+1	46	−4	NW	6	NW	cq/p	7	9	53	41	cmq/p	cq/p	cq/p	1·3
·	Spitzbergen	1002·3	−17	–	0	b	1009·0	+4	−31	−32	–	0	·	b	·	6	1	−36	·	·	·	·
27	Castlebay	·	·	·	·	·	1020·4	+3	41	−1	WNW	9	·	bc	3	6	43	36	·	·	kpc.bc	0·3
·	Scilly	1010·7	46	NNW	6	bcq/p	1020·5	+3	42	−4	NE	3	N	cp	6	2	48	41	cp	bcq/p	bc.cp	5·1
·	Spitzbergen	1012·0	−31	WNW	1	b	1009·9	+1	−6	+25	–	0	·	0	·	·	−6	−38	·	·	·	·
·	Madrid	1015·5	46	NE	1	c	1011·8	0	32	−14	–	0	·	s	·	9	50	32	·	·	·	·
·	Madeira	1022·7	66	N	3	r	1021·5	0	64	+3	NE	4	·	r	4	?	72	?61	·	·	·	·
28	Scilly	1027·2	43	N	2	cv	1030·0	0	46	+4	WSW	2	·	cv	4	1	47	40	cv	cvp	bv.cv	4·1
·	Spitzbergen	1005·6	−11	ESE	1	0	999·7	−2	−8	−2	–	0	·	s	·	·	−6	−15	·	·	·	·
·	Corunna	1023·4	48	ENE	1	c	1028·2	+1	48	0	NE	5	·	c	3	1	52	43	·	·	·	·
·	Madrid	1013·3	37	NE	3	0	1019·1	+3	36	+4	NE	4	·	0	·	5	39	?32	·	·	·	·
·	Lisbon	1015·5	50	N	5	b	1017·0	0	43	−7	NNE	5	·	b	6	–	54	43	·	·	·	·
29	Scilly	1029·6	50	WSW	4	odm	1027·1	−1	50	+8	SW	3	SW	cv	4	0·3	50	?42	cv.ov	0.odm	od.cv	0·0
·	Spitzbergen	991·1	16	S	6	s	991·1	0	27	+35	N	3	·	0	·	·	27	−9	·	·	·	·
·	Corunna	1026·6	52	ENE	6	bc	1022·7	0	46	−2	ENE	6	·	b	3	–	52	46	·	·	·	·
·	Azores	·	·	·	·	·	1026·3	0	57	−14	SSE	1	·	b	·	–	?71	57	·	·	·	·
30	Scilly	1024·8	50	SSW	3	c	1023·0	−1	45	−5	SSE	2	–	b	3	–	52	44	c	c	bc b	2·5
·	Spitzbergen	996·0	1	N	1	0	1003·1	+3	−6	−33	SSE	1	·	b	·	·	?27	−9	·	·	·	·
·	Vardö	980·3	34	NNW	2	0	997·2	+12	32	0	NNW	1	·	bc	3	·	34	30	·	·	·	·
·	Bodö	997·6	39	SW	8	r	1004·4	+3	37	−2	SW	4	–	m	2	?	41	34	·	·	·	·
·	Christiansund	1008·7	43	W	3	c	1015·4	+3	39	−2	W	3	–	c	5	8	43	37	·	·	·	·
·	Skudesnaes	1013·5	43	–	0	0	1013·6	0	43	−3	SSE	3	–	b	8	13	48	41	·	·	·	·
·	Faerder	1013·1	46	SW	7	0	1018·1	+2	45	−1	WSW	2	–	0	3	–	46	45	·	·	·	·
·	Corunna	1018·6	50	ENE	6	b	1018·9	+2	52	+6	NE	4	–	c	2	–	50	45	·	·	·	·
·	Madrid	1013·5	39	NE	5	r	1011·5	+4	41	+5	NE	1	–	r	·	15	41	?36	·	·	·	·
1	Bitr Castle	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	2·1
·	Holyhead	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	3·8
2	Jersey	·	54	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
3	Lerwick	·	·	·	·	·	1001·2	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
4	Deerness	·	·	·	·	·	·	·	49	+8	·	·	·	·	·	·	·	41	·	·	·	·
·	Donaghadee	·	·	·	·	·	·	·	48	−1	·	·	·	·	·	·	·	·	·	·	·	·
6	Stornoway	·	45	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
7	Holyhead	·	48	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
·	Jersey	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	3·7
·	Nairn	973·8	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
·	Sm Farnboro'	·	44	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
8	Holyhead	974·5	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	0·5
9	Castlebay	981·2	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	3·2
·	Jersey	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·

CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0–12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0–12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
9	Dungeness	.	47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11	Jersey	.	.	.	.	.	1029·9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12	London	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	58	.	.	.	.	.
13	Roche's Point	.	.	.	.	.	.	.	49	−1	.	.	.	.	.	.	.	48	.	.	.	.
.	Dungeness	.	.	.	.	.	1025·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·4	.	.	.	.	.	.
.	Falmouth	1028·0	.	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.C. 0⅞	.	.
.	Yarmouth	.	55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15	Jersey	.	.	.	.	.	.	.	48	+1	.	.	.	.	.	.	.	.	.	.	.	.
16	Eskdalemuir	.	.	.	.	.	.	.	.	.	SSE	.	.	.	.	.	.	.	.	.	.	.
17	Jersey	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Wick	.	46	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6·5
18	Stornoway	999·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Roche's Point	.	.	.	.	.	.	.	40	.	.	.	.	.	.	.	.	40	.	.	.	.
.	Dover	.	.	.	.	.	.	.	32	−2	.	.	.	.	.	.	.	.	.	.	.	.
.	Aberdeen	.	.	.	.	.	998·6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Clacton	1002·0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0·3	.	.	.	.	.	1·0
.	Dover	.	.	.	.	.	.	.	.	+5	.	.	.	.	.	.	.	31	.	.	.	.
.	Spurn Head	.	.	.	.	.	971·7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20	Lerwick	.	.	SE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Castlebay	.	.	.	.	.	986·4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Eskdalemuir	.	.	.	.	.	982·5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Roche's Point	980·7	43	.	.	o/c	.	.	.	.	.	.	N	.	.	.	.	.	.	.	.	.
.	Jersey	978·4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Dover	.	.	.	.	.	.	.	.	.	.	8	.	or	.	.	.	35	.	.	.	.
.	Spurn Head	974·0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Benson	.	35	SW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21	Donaghadee	984·0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Dover	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Benson	.	.	.	.	.	996·5	.	32	−6	.	.	.	.	.	.	46	39	.	.	.	.
22	Portland Bill	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	51	44	.	.	.	.
.	Stn Farnboro'	.	.	NW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24	Eskdalemuir	1009·2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Wick	.	.	.	.	.	988·7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Aberdeen	.	.	.	.	.	.	.	55	+11	.	.	.	.	.	.	.	.	.	.	.	.
25	Castlebay	1002·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Benson	.	.	.	.	.	1009·4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Stn Farnboro	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	41	.	.	.	.
26	Lerwick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	.	.	.	.
.	Castlebay	.	.	.	.	.	.	.	.	.	NW	.	.	.	.	.	.	.	.	.	.	.
.	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	omr	om.c	bc.bpx	.
.	Portland Bill	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	.
.	Leith	990·0	.	W	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
27	Dungeness	.	44	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
28	Deerness	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	46	.	.	.	.	.
.	Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.
29	Stornoway	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	.	.	.	.	.
30	Castlebay	.	.	.	.	.	.	.	.	.	SSW	.	.	.	.	.	.	.	.	.	.	.
.	Dover	.	.	.	.	.	.	.	35	−6	.	.	.	.	.	.	.	.	.	.	.	.
.	Tynemouth	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	53	.	.	.	.	.
.	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	Lisbon	.	.	.	.	.	.	.	.	.	NNW	.	.	.	.	.	.	.	.	.	.	1·8

LONDON OBSERVATIONS.

	STATIONS.	Humidity.		Sunshine for Yesterday.	Temperature.			Rainfall.	Weather.		
					In Screen.		Min. on Grass.				
		3 p.m. Yesterday.	9 a.m To-day.		Max.	Min.			Forenoon.	Afternoon.	Night.
					24 Hours ended 9 A.M. To-Day.						
		%	%	Hr.	°F.	°F.	°F.	mm.s			
5	City	.	.	2·7	.	.	.	.	.	.	.
.	Westminster	.	.	2·6	.	.	.	.	.	.	.
6	City	.	.	0·0	.	.	.	.	.	.	.
10	Richmond Park	.	.	7·0	.	.	.	.	.	.	.
11	Richmond Park	.	.	0·0	.	.	.	.	.	.	.
13	City	.	.	0·0	.	.	.	.	.	.	.
16	City	.	.	4·5	.	.	.	.	.	.	.
17	Westminster	71	74	.	41	34	30	—	b	b	bc.b
26	City	.	.	2·3	.	.	.	.	.	.	.

GALES

Duration and Extreme Force in British Islands

Date.	ADDITIONS.	Date.	CORRECTIONS.
6	Dungeness. 5th 7h-21h SSW 11	7	Dungeness. 7th 3h-7h SSW 10
.	S. Farnboro'. 5th 730-8 30h+9h30. S 8	8	Yarmouth. 7th 7h-11h SSW 8
9	Scilly. 8th 11h-21h NW 8	18	Aberdeen. ESE 23 m/s 0 6h 18th
16	Aberdeen. Gust. SSE 18 m/s 21h	19	Aberdeen 18th 10h-19th 7h ESE-E. 8
17	General gales on N + W coasts on 16th — 7am. 17th	24	Blackpool Point. 24th 2am-7am SSW. 8. Ex SSW. 10 0 4 am.
26	Scilly. 26th 2pm-6pm NW. 8		