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

SECOND QUARTER, APRIL TO JUNE.

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

	STATIONS.	PRESSURE. 1906–1915.	AIR TEMPERATURE.							RAINFALL. 1881–1915.			BRIGHT SUNSHINE. 1881–1915.	
			Means of			Absolute Extremes.								
			1906–1915.	1881–1915.		1881–1915.								
						Maximum.		Minimum.		Days with Rain	Total Fall.		Daily Mean.	Per Centage of Possible Duration.
		7 a.m. Observations (reduced to M.S. Level).	Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year	Temp.	Year					
		mb.	°F.	°F.	°F.	°F.		°F.			mm.	in.	hr	%
APRIL.	Lerwick	1010·9	40·9	46·0	36·9	59	1901, 14	21	1899	19	58	2·28	—	—
	Stornoway	1011·9	41·9	49·5	37·5	67	1893	20	1881	19	77	3·03	5·13	36
	Castlebay (Barra Isd.)	[1012·6]§	[44·0]§	[48·5]§	[41·1]§	[62]§	[1915]§	[27]§	[1908]§	[20]§	[72]§	[2·84]§	[5·33]§	[38]§
	Eskdalemuir	[1015·9]¶	[39·6]¶	[50·0]‖	[33·9]‖	[67]‖	[1914]‖	[18]‖	[1910]‖	[17]‖	[113]‖	[4·44]‖	[4·60]‖	[33]‖
	Malin Head	1012·6	43·4	[49·7]*	[40·8]*	[69]*	[1914]*	[26]*	[1908]*	[19]*	[50]*	[1·97]*	—	—
	Blacksod Point	1013·9	45·7	[51·5]*	[41·9]*	[71]*	[1893]*	[29]*	[1897, 1911]*	[20]*	[74]*	[2·90]*	—	—
	Valencia	1015·9	45·5	53·4	42·6	70	1892	30	1879, 92, 97, 98, 1906	19	93	3·67	5·33	39
	Roche's Point	1016·1	45·0	52·9	42·2	72	1893	29	1908	16	68	2·68	—	—
	Birr Castle	1015·2	42·2	54·2	38·0	73	1893	21	1892	16	55	2·15	5·13	37
	Donaghadee	1014·6	42·6	51·1	40·2	67	1909	28	1908	16	51	2·00	—	—
	Liverpool (Observatory)	1015·2	43·1	52·4	40·2	75	1893	28	1908, 11	14	41	1·62	[5·77]§	[42]§
	Holyhead	1014·9	45·0	51·2	41·5	75	1893	30	1908	14	53	2·08	[6·70]**	[48]**
	Pembroke (St. Ann's Hd.)	1015·4	44·3	50·6	42·0	70	1893	28	1911	15	50	1·95	5·93	43
	Scilly (St. Mary's)	1015·9	46·7	52·7	44·5	66	1893	30	1911	15	49	1·91	6·03	44
	Falmouth	1016·6	45·7	52·6	42·9	69	1893	29	1911	15	67	2·64	6·13	45
	Jersey (St. Aubin's)	1016·5	47·0	54·5	43·7	77	1893	28	1911	15	49	1·94	6·47	47
	Portland Bill	1015·6	45·2	51·6	42·3	[65]†	[1901, 04]†	[28]†	[1911]†	13	40	1·58	—	—
	Dungeness	1015·1	44·5	51·7	40·5	67	1901	24	1903	13	35	1·36	—	—
	Dover	[1016·1]§	[45·1]§	[52·6]§	[40·0]§	[71]§	[1914]§	[27]§	[1911]§	[14]§	[41]§	[1·60]§	[6·93]§	[51]§
	Wick	1011·7	41·3	49·1	36·8	69	1900	20	1905	18	51	1·99	—	—
	Nairn	1012·3	41·0	51·8	35·9	73	1914	18	1908	16	38	1·50	[4·83]‡	[34]‡
	Aberdeen	1013·4	42·2	49·8	37·6	74	1900	22	1908	17	48	1·87	5·27	37
	Leith	1013·7	42·9	52·6	38·1	73	1900	17	1908	14	33	1·29	—	—
	Tynemouth	1014·4	42·0	50·5	37·7	71	1892	23	1908	15	36	1·42	—	—
	Spurn Head	1014·5	43·3	49·8	40·0	70	1915	30	1881, 89, 1903, 05, 11	13	28	1·12	[6·60]**	[48]**
	Yarmouth	1015·2	43·3	50·0	39·8	72	1885	27	1911	14	38	1·49	[6·63]§	[48]§
	Clacton-on-Sea	1015·5	43·9	50·9	40·2	[69]‡	[1907, 09, 12]‡	[25]‡	[1911]‡	11	33	1·28	6·03	44
	Nottingham	1015·4	42·4	54·1	37·8	77	1893	23	1888	15	36	1·43	4·97	36
	LONDON (Kew Obsy.)	1016·2	43·2	55·0	39·5	80	1893	27	1887, 91, 11	13	37	1·45	5·23	38
MAY.	Lerwick	1013·7	44·6	49·9	40·5	63	1895	28	1909	18	53	2·09	—	—
	Stornoway	1013·7	46·9	53·7	41·3	75	1908	26	1906	19	65	2·56	6·16	37
	Castlebay (Barra Isd.)	[1014·5]§	[48·2]§	[53·2]§	[44·9]§	[73]§	[1911]§	[32]§	[1909]§	[17]§	[54]§	[2·11]§	[7·23]§	[44]§
	Eskdalemuir	[1016·3]¶	[45·3]¶	[55·7]‖	[38·5]‖	[73]‖	[1915]‖	[24]‖	[1915]‖	[15]‖	[72]‖	[2·85]‖	[5·32]‖	[33]‖
	Malin Head	1013·1	47·6	[54·1]*	[45·0]*	[73]*	[1908]*	[35]*	[1886, 91, 97* 1904, 06, 10]	[17]*	[50]*	[1·98]*	—	—
	Blacksod Point	1013·6	49·7	[55·9]*	[45·8]*	[75]*	[1890, 1911]*	[34]*	[1910]*	[19]*	[72]*	[2·82]*	—	—
	Valencia	1014·3	50·6	57·9	46·5	74	1884, 95, 97	34	1885, 96	18	81	3·17	6·55	42
	Roche's Point	1015·0	50·2	57·4	46·5	73	1896	35	1909	15	62	2·43	—	—
	Birr Castle	1014·5	48·7	59·8	42·7	77	1881, 95, 1911	29	1885, 91, 1909, 14	16	57	2·23	5·87	37
	Donaghadee	1014·7	47·5	55·8	44·4	70	1896, 1911	33	1884, 85, 97, 1909	16	58	2·27	—	—
	Liverpool (Observatory)	1015·2	49·2	58·2	45·3	80	1895	30	1883	15	48	1·90	[6·84]§	[43]§
	Holyhead	1014·8	49·9	56·0	45·6	74	1895	37	1894, 1903, 07, 09	14	50	1·96	[7·10]**	[45]**
	Pembroke (St. Ann's Hd.)	1014·7	49·8	55·2	46·1	72	1890, 1910, 11, 15	36	1883, 87, 1904 05, 06, 10	14	49	1·91	6·97	45
	Scilly (St. Mary's)	1014·9	51·0	56·8	48·2	68	1911	38	1883	13	42	1·67	7·35	48
	Falmouth	1015·6	51·5	57·7	47·0	75	1915	36	1885, 1892	14	56	2·21	7·45	49
	Jersey (St. Aubin's)	1015·9	53·1	60·2	48·1	80	1913	35	1905, 06	13	46	1·82	7·81	51
	Portland Bill	1015·2	50·8	56·9	46·8	[74]†	[1911, 15]†	[36]†	[1902]†	11	40	1·59	—	—
	Dungeness	1015·0	51·2	57·8	46·1	76	1892, 1913	30	[illegible]	11	33	1·30	—	—
	Dover	[1016·5]§	[52·2]§	[59·6]§	[46·0]§	[77]§	[1909, 13]§	[35]§	[1909, 10]§	[11]§	[35]§	[1·39]§	[7·94]§	[52]§
	Wick	1013·8	45·9	53·4	40·8	71	1891	27	1886, 1902, 09	18	53	2·07	—	—
	Nairn	1013·8	46·7	56·8	40·7	78	1888	26	1894, 1914	17	46	1·80	[5·71]‡	[35]‡
	Aberdeen	1014·6	47·8	54·5	41·8	75	1902	29	1884, 91	17	59	2·33	6·03	37
	Leith	1014·5	48·2	57·3	42·8	81	1881	27	1883	14	46	1·83	—	—
	Tynemouth	1015·0	48·0	54·9	42·4	73	1903, 11	29	1891, 1909	14	51	1·99	—	—
	Spurn Head	1014·9	49·4	55·1	45·0	76	1913	34	1891	12	39	1·55	[5·74]**	[36]**
	Yarmouth	1015·3	50·4	55·9	45·2	81	1912	32	1891, 92	13	44	1·73	[7·48]§	[48]§
	Clacton-on-Sea	1015·4	51·3	57·5	45·5	[75]‡	[1909, 13]‡	[31]‡	[1902]‡	11	34	1·34	7·52	49
	Nottingham	1015·4	49·4	60·4	43·2	82	1895	27	1881, 1905	15	48	1·89	5·87	37
	LONDON (Kew Obsy.)	1015·8	51·1	61·7	45·0	84	1895	31	1886, 1892	12	44	1·72	6·48	42
JUNE.	Lerwick	1013·6	48·7	53·9	45·0	70	1891	33	1888	15	45	1·78	—	—
	Stornoway	1014·3	51·5	58·4	46·4	78	1911	31	1888	17	59	2·32	5·93	33
	Castlebay (Barra Isd.)	[1015·0]§	[52·2]§	[57·2]§	[49·2]§	[71]§	[1908, 10]§	[41]§	[1913]§	[16]§	[49]§	[1·91]§	[6·37]§	[36]§
	Eskdalemuir	[1015·2]¶	[51·1]¶	[61·2]‖	[43·9]‖	[78]‖	[1911]‖	[30]‖	[1914]‖	[15]‖	[77]‖	[3·05]‖	[5·63]‖	[33]‖
	Malin Head	1014·1	52·0	[58·7]*	[49·7]*	[78]*	[1905]*	[40]*	[1902, 07]*	[16]*	[54]*	[2·14]*	—	—
	Blacksod Point	1015·2	53·9	[60·6]*	[50·8]*	[82]*	[1887]*	[39]*	[1912]*	[17]*	[71]*	[2·79]*	—	—
	Valencia	1016·2	54·7	62·3	51·1	81	1887, 1902	37	1912	17	81	3·20	6·27	38
	Roche's Point	1016·4	54·5	62·4	51·3	80	1887	39	1912	14	68	2·67	—	—
	Birr Castle	1015·7	53·2	64·9	48·4	85	1887	32	1881	15	59	2·31	5·47	33
	Donaghadee	1015·2	51·8	60·7	49·3	77	1887	37	1885	15	59	2·33	—	—
	Liverpool (Observatory)	1015·6	54·0	63·6	51·0	85	1893	40	1903, 07	14	56	2·20	[7·00]§	[42]§
	Holyhead	1015·5	54·2	61·0	50·6	78	1888, 96	42	1882, 1912	13	55	2·15	[7·17]**	[43]**
	Pembroke (St. Ann's Hd.)	1015·8	53·4	60·0	51·3	79	1893	38	1888	13	50	1·98	7·27	44
	Scilly (St. Mary's)	1016·4	54·9	61·4	53·0	75	1893	41	1888	13	43	1·71	7·73	48
	Falmouth	1017·0	55·5	62·8	52·0	80	1893	42	1914	13	59	2·31	7·37	46
	Jersey (St. Aubin's)	1017·6	57·2	64·8	53·0	84	1893	39	1890	12	54	2·11	7·90	49
	Portland Bill	1016·2	55·0	61·6	52·2	[78]†	[1903]†	[43]†	[1903]†	10	34	1·33	—	—
	Dungeness	1015·8	56·2	62·8	51·7	76	1897, 1902, 03, 08, 14	37	1890, 91, 92, 93, 1909	11	40	1·56	—	—
	Dover	[1016·1]§	[56·8]§	[63·6]§	[50·3]§	[82]§	[1915]§	[38]§	[1911]§	[12]§	[54]§	[2·11]§	[7·57]§	[47]§
	Wick	1014·0	50·2	58·0	45·5	77	1887, 92	30	1881, 1903	16	46	1·80	—	—
	Nairn	1014·1	52·0	62·1	46·2	84	1888	30	1888, 1903	15	45	1·76	[5·57]‡	[32]‡
	Aberdeen	1014·7	53·0	59·9	47·0	80	1881, 87	30	1888	15	43	1·71	6·13	35
	Leith	1014·7	53·5	62·9	48·4	86	1887	34	1886	13	44	1·73	—	—
	Tynemouth	1015·1	53·2	60·7	47·8	80	1897	36	1907, 09	13	50	1·98	—	—
	Spurn Head	1015·0	54·4	60·9	50·6	83	1914	34	1881	12	39	1·53	[6·77]**	[41]**
	Yarmouth	1015·5	55·3	62·0	51·1	81	1888	37	1898	12	45	1·77	[7·27]§	[44]§
	Clacton-on-Sea	1015·9	56·1	63·5	50·9	[78]‡	[1903]‡	[38]‡	[1902]‡	10	40	1·58	7·33	45
	Nottingham	1015·6	54·2	66·7	48·8	88	1883	33	1906	13	49	1·93	5·87	35
	LONDON (Kew Obsy.)	1016·4	55·7	67·6	50·8	87	1900	38	1890, 92, 96	12	55	2·15	6·57	40

* 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.
February, 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, 1917. No. 91

Sunday 1st APRIL

	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.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS	Lerwick ...	996·5	28	NNW	6	oq	995·8	0	24	-6	NNW	3	NW	bc	3	2	34	24	oq.p.c	oq.sp	cp.bc	*
	Deerness (Orkney)	998·6	28	NW	6	bc	997·6	*	25	-7	N	3	N	bc	2	3	33	22	c.cox	s.c.bc	bc.ps	2·2
	Stornoway ...	1001·1	29	N	6	bc.ps.q	1000·4	-2	20	-11	N	3	-	b	3	5	33	16	bc.p.hq	bc.p.q	c.ps	5·2
	Castlebay (Barra Isd.)	1006·4	29	NNE	3	b	1000·8	-4	27	-4	NE	4	NE	c	4	1	34	24	c.ps	c.p.o. b	bs.p.o.c	3·9
	Glasgow ...	1001·9	29	ESE	1	o	1000·9	-1	21	-9	WNW	1	-	b	*	0·2	40	20	bc.b.o	o.p.s	c.p.h.b	4·6
	Eskdalemuir ...	999·5	34	N	4	o	1000·1	0	18	-10	NNW	4	SW	b	*	3	41	18	o.c.bc	b.bc.c.o	o.c.bc	4·6
	Malin Head ...	1003·1	33	N	6	bc.q.ps	1000·2	-2	26	-10	N	4	N	cx	3	2	38	25	c.m.ps	c.p.s.q	c.q.p.h.x	4·0
	Blacksod Point	1005·1	32	NE	7	o.m.q.ph	1002·8	?	28	-7	E	1	NE	bc	3	2	41	27	bc	o.m.q.ph	c.m.q.ph	*
	Valencia ...	1003·0	41	NW	4	c	1005·9	-1	32	0	NNW	4	NW	c.q.ps	3	2	44	30	bc.c.ph	c	c.q.b.c.p.s	5·4
	Roche's Point	1000·6	42	N	2	cg	1004·4	*	30	-5	NNW	2	-	b	2	1	46	30	b.o.g.hp	c.g.ph	c.p. b	*
	Birr Castle ...	1001·1	35	ENE	1	o	1003·3	*	24	-10	-	0	-	c	*	1	45	23	o c	c o.p.s	o.p.s.c.x	2·4
	Donaghadee ...	1000·7	32	N	4	o.q.s	1000·6	-1	30	-6	N	3	N	bc	3	0·3	43	28	bc.z	bc.z.o.s	b c.q	*
	Liverpool (Bidston)	999·4	34	ENE	1	r	997·4	+2	29	+6	NNW	3	N	o	3	5	40	29	o.s.p	o.z	o.o.o	0·0
	Holyhead ...	999·0	40	NE	4	o.m.q	999·4	0	33	-5	N	5	N	bc	5	2	44	32	o.c	o.c.o.m	o.d.s.bc	4·5
	Pembroke (St. Ann's)	998·8	40	N	3	c	1000·7	+2	33	-2	NW	4	NW	bc.q	4	2	45	31	b	b.bc	bc.o.ps	7·2
	Scilly (St. Mary's)	1000·3	41	W	1	bc.p	1002·0	+1	37	-3	N	6	NW	bc	6	1	49	37	bc.p	bc.p	c.q.p.t.l	4·9
	Falmouth ...	999·2	43	N	1	bz	1000·7	+2	33	-3	N	4	-	s	*	3	48	33	c. b	bc.b.bc	b.o.d.s	9·4
	Jersey (St. Aubin)	1000·6	44	W	4	b	999·2	*	40	-2	WSW	3	-	b	2	3	47	34	c.q.p.b	b.bc.b	bc.p.b	6·8
	Portland Bill ...	997·4	42	WNW	3	bc	997·9	-1	39	-1	WNW	4	NW	c	3	0·3	46	36	bc	C.bc	c.p.bc	*
	Dungeness ...	994·2	40	SW	4	b	999·5	0	34	-6	-	0	-	o	0	2	45	30	cr	c	b.bc.o.c	*
	Dover	995·5	39	SW	2	c	999·5	+1	34	-4	-	0	W	o	2	3	42	31	o.p.cr	c.p.h.bc	c.o.p.s	1·3
	Wick	999·8	25	NNW	4	s	999·4	0	23	-9	NW	3	-	s	4	1	35	19	o.m.p.sh	o.m.p.sh	o.m.p.s	*
	Nairn	1001·7	31	NNW	4	bc.q	1000·2	*	25	-6	NNW	1	-	bc	2	1	37	20	c.p.h.ou	c.p.h.q	cg	4·9
	Aberdeen	1000·4	32	NW	4	bc	999·2	0	26	-7	NW	4	-	b	3	0·2	38	23	bc.cq	bc.a.p.q	bc.q.b	7·0
	Leith	1001·1	30	N	1	s	999·6	0	26	-7	W	1	W	b	2	0·1	41	25	b	o.c.o.s	o.o.bc.b	*
	Tynemouth ...	1000·1	37	NE	2	bc	998·1	-1	26	-10	NW	3	-	o	4	4	40	26	bcm	bcm	o.m.s	*
	Spurn Head ...	998·2	37	ENE	4	bc	996·9	0	36	-1	ENE	3	-	b	5	0·3	42	34	c	bc	bc	1·4
	Yarmouth ...	994·7	36	E	5	o	997·0	+2	32	-1	NW	2	-	bc.p.s	4	16	38	31	bc.o.m.s	o.m.s	o.m.q.p.s	0·0
	Clacton-on-Sea	994·2	40	W	1	o	998·7	+1	33	-5	SSE	2	W	c	2	9	42	32	o.q.r.c	c.o.q	o.q.p.d.c	0·5
	Nottingham ...	998·4	38	NE	3	c	996·5	*	29	-7	SE	1	-	s	*	1	44	25	o.p.s	o.c	c.b	0·7
	Benson (Oxon.) ...	996·8	38	N	3	c	996·4	-1	32	-2	SSE	3	-	s	*	3	42	27	o.r.o.d	c.p.o	bc.o.s.	*
	Sth Farnborough	997·6	37	NNW	3	r	997·2	-2	32	-1	SE	2	-	s	*	4	39	28	s.r.o.r.m	s.r.o.bc.o.r	o.r.b.o.s	0·6
	London (Kew Obsy.)	996·3	38	NNW	2	o	997·8	-1	32	-2	-	0	-	s	*	3	38	30	o.m.s.f.s.d	o.m.d.c.o	o.b.c.o.m.s	0·1
NORTHERN EUROPE.	Spitsbergen ...	1018·6	-15	SE	5	b	1017·7	+1	-33	+12	-	0	*	b	*	*	-15	-45				
	Vardö	993·5	18	S	1	bc	993·3	0	28	-2	-	0	-	c	2	*	30	28				
	Bodö	987·3	32	E	4	o	993·1	+3	34	+2	-	0	-	c	1	?	36	27				
	Christiansund ...	989·7	34	NE	3	s	990·1	+2	34	0	NNE	4	-	c	5	3	36	32				
	Skudesnaes ...	985·6	32	NW	9	c	991·9	+5	34	0	NW	8	-	c	6	-	37	28				
	Færder (X'tania Fjord)	986·1	34	WSW	2	o	991·7	+2	34	+2	WSW	6	-	bc	4	-	34	32				
	The Scaw (Skagen)	987·7	34	SW	6	o	996·4	+3	34	0	SW	3	-	o	3	1	41	32				
	Blaavands Huk	997·7	36	W	3	o	995·8	-2	30	-6	ENE	1	-	o	2	-	39	28				
	Copenhagen ...	997·7	39	WSW	3	b	997·3	-3	34	-2	E	2	-	o	*	Trace	43	30				
	Bornholm ...	998·4	34	WSW	6	m	998·0	-4	30	-2	ESE	6	-	f	1	-	36	28				
FRANCE, &c.	The Helder ...	997·3	36	NE	4	r	995·0	+3	34	-3	NNE	5	-	o	3	10	41	34				
	C. Gris Nez ...	995·3	39	SW	4	b	999·1	+1	34	-4	S	1	*	o	2	2	46	34				
	La Hève	998·0	41	SW	4	o	999·9	*	37	0	SW	4	*	o	3	4	45	36				
	Brest (St. Mathieu)	1002·0	41	NW	4	o	1001·3	0	39	-4	NW	4	*	o	3	5	48	37				
	Rochefort (Ile d'Aix)	1005·9	45	SW	6	c	1001·1	-2	45	-2	WSW	7	*	o	*	5	50	43				
	Biarritz	1009·7	46	SW	3	r	1008·7	0	46	-5	WNW	4	*	r	6	13	50	43				
	Paris	1001·6	41	SW	4	r	1002·3	0	37	-2	SSW	2	-	o	*	2	52	36				
	Belfort	1005·5	43	WSW	6	o	1006·7	*	37	-2	WSW	3	*	o	*	6	48	32				
	Lyons							*					*		*							
	Nice	1012·4	46	-	0	0	1008·8	-1	46	0	-	0	*	r	5	22	55	46				
	Perpignan ...	1007·8	54	SE	1	o	1007·4	+1	48	+7	NW	2	-	o	*	-	63	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1012·4	48	W	3	o	1011·9	+1	43	-5	WSW	7	SW	o	5	8	54	41				
	Madrid	1014·4	50	W	3	o	1011·3	+2	45	0	SW	2	-	o	*	-	52	45				
	Lisbon	1017·2	55	WSW	4	o	1013·7	0	52	0	WNW	2	-	o	5	-	61	54				
	Azores (Horta) ...	1011·3	*	SSW	4	o	1010·6	+1	57	0	SSW	4	*	o	3	5	65	57				
	Madeira	1019·1	59	SE	2	r	1017·1	-2	54	0	W	2	-	o	2	-	63	54				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1019·3	+1	52	-2	W	1	-	b	o	-	61	48				
	Limassol	*	*	*	*	*	1014·6	0	66	+2	S	1	-	b	3	-	73	50				
	Alexandria ...	1017·2	64	NE	3	o	1014·3	0	64	0	ENE	4	NW	c	3	-	72	61				
	Cairo (Helwan) ...	1013·0	72	NE	5	o	1012·3	+1	68	+4	NE	3	N	bc	*	-	84	63				

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	86	0·0	40	29	25	2	ST	o c	o
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	87	91	0·0	44	30	25	3	drq	or.f.m	or.m
CAMDEN SQ. (British Rainfall) ...	95	91	0·0	39	27	26	1	o.s	o	*
HAMPSTEAD (Reservoir)	*	79	0·0	37	35	16	3	o.s.f	o.s	o.s.x
S. KENSINGTON (Museum Grounds)	*	91	0·0	39	31	24	1	bc.o.s	o.g.o	o.b.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
307	6·7	27·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

THE MORNING OF SUNDAY, 1ST APRIL, 1917.

GENERAL INFERENCE

The conditions remain of an unsettled and unseasonable type.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

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

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

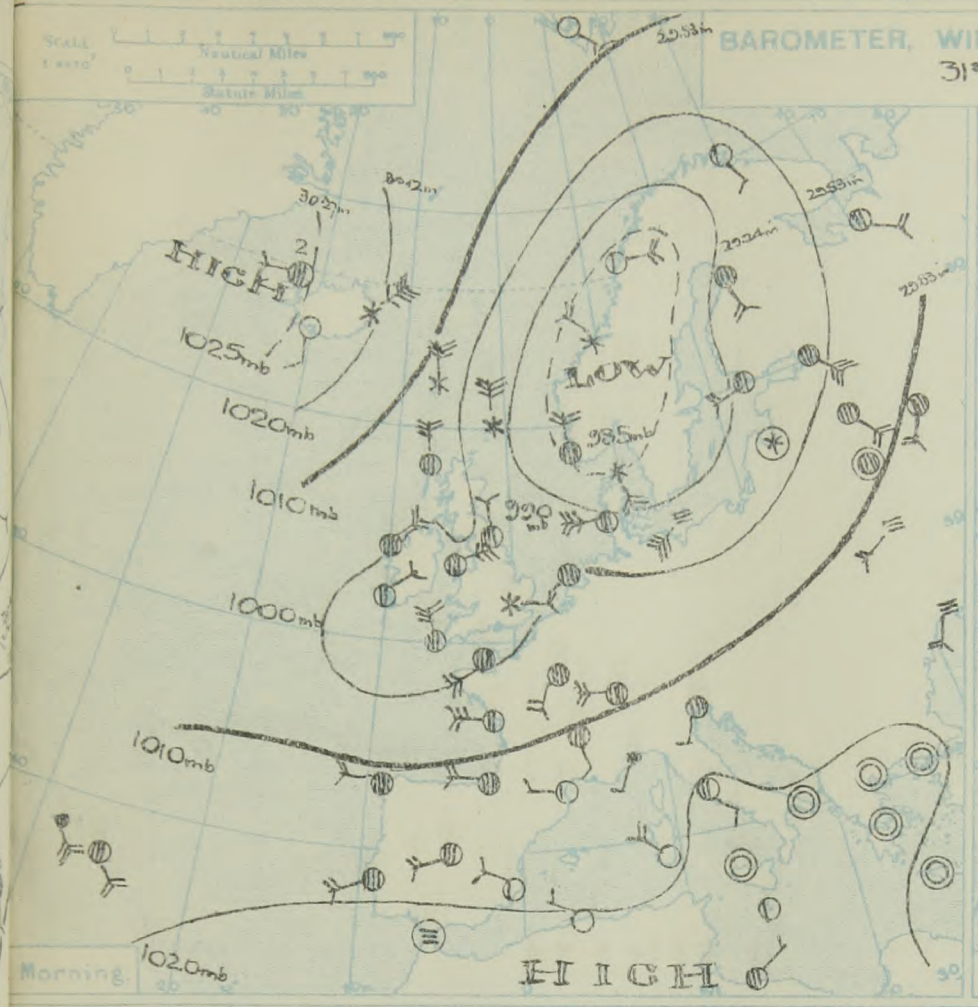
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

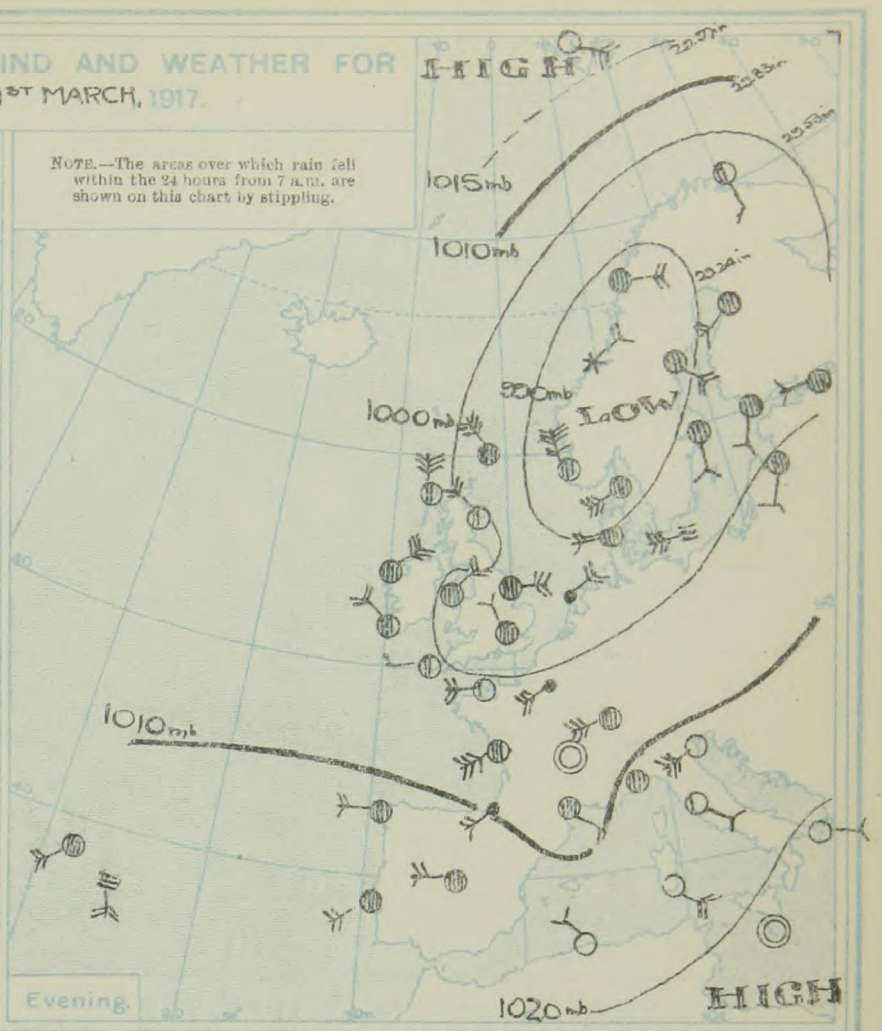
SEA DISTURBANCE.—Rough ~~ High ~~.

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

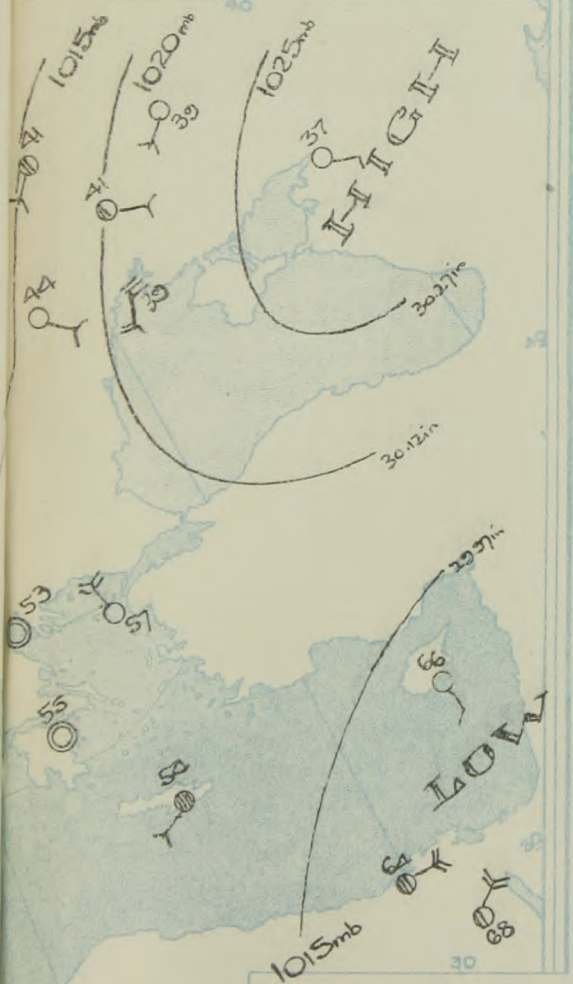
BAROMETER, WIND AND WEATHER FOR 31ST MARCH, 1917.



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



Forecasts Noon Sunday to Noon Monday .



0 (a) (b)
1
2 (a) (b)
3
4 (a) (b) (c)
5
6 (a) (b)
7 (a) (b)
8 (a) (b)
9 (a) (b)
10 (a) (b)

Variable breezes, mainly between North-East and North-West, moderate locally; changeable, some rain or snow ; fair intervals ; cold.

Wind between North and West, moderate or fresh; sea moderate or rather rough; changeable, some cold showers .

FURTHER OUTLOOK.

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

Issue No. 20,219

DAILY WEATHER REPORT.

Sunday 1st April 1917.

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 ...						1006·7	+2	12		SE	3	bc	4	*	7
	Gorki	1010·9	25	–	0	b	1007·3	*	32	+4	–	0	0	–	*	28
	Velieki Luki ...	1008·3	27	S	2	b	1002·3	*	34	·	SSE	4	0	–	*	27
	Hangö	995·3	30	SSE	6	8	991·8	+1	32	·	WSW	8	c	2	*	19
	Riga	998·9	34	SSW	4	0	995·4	–1	34	+15	–	0	8	8	*	19
	Petrograd ...	1004·8	27	SSE	3	b	999·0	–3	27	+18	SSE	4	0	–	34	9
	Moscow	1011·8	36	–	0	0	1012·8	+1	34	+2	SW	8	0	–	*	30
	Kiev	1015·8	34	W	3	b	1014·1	0	34	+4	SW	3	f	–	*	30
	Kharkov ...	1019·1	32	W	2	c	1020·7	+2	30	–2	SW	1	b	–	*	27
	Kishinev ...	1016·0	31	–	0	b	1015·7	+7	41	+5	SSW	3	b	?	*	36
	Elisabetgrad ...						1018·9	0	34	+2	SSE	3	f	–	*	30
	Nicolaiev ...	1019·5	39	–	0	f	1019·9	*	39	·	SSW	3	f	–	*	36
	Odessa	1017·3	37	NE	3	0	1019·3	0	41	0	WSW	4	b	3	*	36
	Tarkhankout...							*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1013·3	48	–	0	c	1012·1	*	52	+7	SSW	1	0	Trace	52	45
	Pesaro	1016·9	54	SW	1	0	1015·8	*	54	+4	S	2	0	–	61	48
	Rome	1022·7	50	S	1	c	1020·5	*	54	+11	SE	1	bc	–	59	43
	Viesti	1020·2	48	–	0	b	1019·3	*	52	0	–	0	b	–	57	48
	Brindisi	1021·9	50	NE	1	b	1021·7	*	46	–2	–	0	b	–	61	46
	Cagliari	1022·1	54	NNW	3	b	1019·3	*	54	+2	NW	3	b	3	59	50
	Palermo						1022·3	*	50	+11	–	0	b	–	59	39
	Tripoli						1022·6	*	57	0	NE	1	c	–	68	50
	Algiers															
SWEDEN.	Hernösand ...	991·7	28	ESE	6	8	985·2	*	28	–2	N	2	bc	*	*	*
	Stockholm ...	987·4	32	ESE	2	8	990·1	*	30	–2	SSE	2	0	*	*	*
	Wisby	987·9	34	ESE	4	c	990·6	*	34	0	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 ...	1024·4	23	+11	W	2	c
Reykjavik	1027·1	19	+5	S	1	b
Vestmanna						
Seydisfjord	1020·2	4	–6	NE	9	8
Thorshavn	1033·3	21	–9	N	6	8

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	35	28	b	bc	0·7
	Banff	Trace	Trace	37	29	c.bc	csq c	6·1
	Montrose	–	–	45	30	b	b	2·5
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	1	–	40	31	o.c.bc	c.o.c	2·2
	Skegness							
Eng. N.W.	Morecambe	7	Trace	43	33	o	or	0·3
	Southport							
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	–	1	46	27	bcm	c. or	4·3
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	43	33	ooc	bco	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	2	10	41	33	osr	c.om	0·1
	Felixstowe							
	Walton-on-Naze							
	Southend-on-Sea	2	1	44	33	ors	o	0·4
England, S.E.	Margate	–	7	45	37	or	or	0·7
	Ramsgate							
	Hastings	1	6	43	36	or	o.bc.b	2·3
	Eastbourne	3	7	45	38			2·6
	Seaford	*	*					
	Brighton							
	Worthing	10	1	46	34	bc	p	4·8
	Littlehampton	8	6	44	35	bc	bc	4·8
	Bognor	*	*					
	Bournemouth	7	–	45	35			3·7
England, S.W.	Weymouth...	*	*					
	Torquay							
	Paignton	*	*					
	Penzance	7	0	49	36	bc	bc	7·8
	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.

1-2 April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	5·30	11·57	6·24
	5·28	11·57	6·26
Greenwich	5·38	12·4	6·30
	5·36	12·4	6·32
Wick	5·42	12·16	6·50
	5·40	12·16	6·52
Valencia	6·19	12·45	7·11
	6·17	12·45	7·13

NOTES ON YESTERDAY'S WEATHER.

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, 1917. No. 92 | Monday 2nd April

	STATIONS.	YESTERDAY EVENING. Sakom. 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 ...	998·0	32	W	2	bc	1001·4	+1	36	+12	ESE	4	SE	bc	4	—	36	25	bc	bc	bc	*
	Deerness (Orkney)	999·3	29	N	2	bcx	997·3	*	37	+12	E	5	SE	cq	5	1	37	25	c.bc	c.bcx	bcpsq	9·0
	Stornoway ...	998·4	26	SW	4	cps	996·5	-3	30	+10	NNE	4	—	bc	4	4	32	19	bcps	bc.ops	bc.c	4·1
	Castlebay (Barra Isd.)	1001·2	32	WNW	3	b	997·1	-1	30	+3	—	0	—	0	1	1	32	26	csp.c	c.b.o	osp.c.o	6·4
	Glasgow ...	998·2	33	N	2	b	996·3	-1	22	+1	W	1	—	bc	*	—	37	19	b.bc	bc.b	bc.c.bx	11·2
	Eskdalemuir ...	998·4	24	NE	1	b	998·3	0	9	-9	—	0	S	cx	*	—	30	4	bc.b	bc.b	b.bc.cx	10·1
	Malin Head ...	998·8	32	E	2	bc	996·0	0	29	+3	NNW	2	N	bcx	2	0·2	36	27	bc.	bcx	bcx	3·0
	Blacksod Point	992·1	28	ESE	9	oms	995·9	?	27	-1	NE	8	—	om	6	°	31	26	bc	oms	cq.om	*
	Valencia ...	990·7	35	W	4	cps	997·4	+3	33	+1	N	4	NW	bc	3	3	39	29	bc.c.os	cps	ocph.bc	3·9
	Roche's Point	990·2	37	W	3	bc	993·4	*	29	-1	NNW	4	NW	c	3	2	40	27	b.bc.c	ops.bc	b.osc	*
	Birr Castle ...	992·6	30	E	2	S	994·7	*	27	+3	N	1	—	bc	*	1	36	27	c.	c.os	os.bcx	2·1
	Donaghadee ...	998·9	32	NNE	2	cr	995·9	-1	29	-1	E	3	E	bc	2	—	34	28	bcr	bcr	om.bc	*
	Liverpool (Bidston)	998·4	32	WNW	1	b	990·7	-8	23	-6	NE	5	—	S	4	3	35	23	b.	b.	bs	9·8
	Holyhead ...	997·8	32	SE	4	o	991·3	-3	27	-6	ENE	8	—	ops	7	1	40	26	os.bc	c.bc.c	c.ops	5·2
	Pembroke (St Ann's)	997·6	36	S	3	cr	986·6	-1	25	-8	SSW	5	W	cpsh	4	15	38	32	bcq.bc	bc.cr	sqpcs	8·0
	Scilly (St. Mary's)	997·6	39	WSW	5	c	989·5	-4	38	+1	WSW	4	SW	cqph	6	6	43	22	bcr	bcp.	c.oqsh	7·9
	Falmouth ...	998·1	38	SW	2	c	988·0	-2	31	-2	SW	2	—	S	*	8	43	29	c.b	b.opsr	bcphs	7·8
	Jersey (St. Aubin)	1001·6	41	W	3	b	992·2	*	38	-2	SSW	4	—	0	4	7	44	33	b.orsp	b	b.or.o	7·2
	Portland Bill ...	998·8	39	WNW	3	bc	989·0	0	35	-4	WSW	4	SW	cp	5	4	41	33	bc	bc.	bcrs	*
	Dungeness ...	997·8	38	NW	2	bc	995·7	-5	38	+4	S	8	N	r	7	1	41	29	o.bc	ps.bc	es.bc.o	*
	Dover	999·4	33	W	1	bc	996·0	-3	37	+3	S	6	S	0	6	1	38	26	ops	ops.bc	bc.oq	0·4
	Wick	1000·2	27	—	0	bc	995·7	0	38	+15	E	7	—	0	6	0·4	38	21	ps.bcm	bcm	omqq	*
	Nairn	998·9	27	NE	2	c	991·9	*	25	0	ENE	2	—	cq	2	14	35	23	dcs.op	qopc	sqqs	8·0
	Aberdeen	998·5	29	NW	4	o	996·0	+9	24	-1	SSW	2	—	bc	3	7	32	22	b.bc.c	c.o	osq.bc	5·4
	Leith	997·3	32	E	1	c	995·3	+1	24	-2	SW	1	SW	b	2	—	37	21	b.	b.bc.	cu.b.b	*
	Tynemouth ...	995·9	29	NNW	3	cm	997·3	0	22	-4	W	1	—	om	4	1	30	17	omqs	omqps	o.cm	*
	Spurn Head ...	995·9	30	NW	6	cqps	997·0	-2	32	-4	SE	4	—	ox	5	2	36	?	om	cqps	bx	0·0
	Yarmouth ...	994·8	33	NW	4	o	997·9	-5	35	+3	SSE	5	—	c	5	1	39	30	bcqs	bc.omps	bc x	2·6
	Clacton-on-Sea	997·4	34	WNW	4	c	996·3	-5	37	+4	SSE	6	S	o	5	3	40	29	c.o.c	c.os.bm	c.bc.oq	0·5
	Nottingham ...	997·8	31	NW	2	bm	991·5	«	27	-2	E	5	—	S	*	1	36	17	S.o.c	ps.o.c	bm	1·0
	Benson (Oxon.) ...	998·1	36	WNW	1	bc	992·4	-3	32	-0	SSE	4	—	S	*	5	40	24	of.bc	bc.	o.osq	*
	Sth Farnborough	998·3	34	WNW	4	c	991·4	-5	33	+1	SW	4	—	osm	*	6	42	25	shr.os	o.c	c.b.osqm	3·0
	London (Kew Obsy.)	998·6	36	NW	2	bm	991·8	-7	34	+2	SSE	5	—	osm	*	2	40	28	oms.om.o	o.c. bc.bm	bcm.opms	3·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	997·6	34	W	1	c	1002·9	+2	36	+2	NE	1	—	b	1	—	39	34				
	Blaavands Huk	999·4	34	N	2	b	999·7	0	30	0	ESE	3	—	o	3	—	39	23				
	Copenhagen ...	997·7	34	NE	2	o	1003·1	+3	32	-2	SSE	2	—	m	*	2	37	30				
	Bornholm ...	998·1	34	SW	4	m	1003·0	+3	30	0	WNW	1	—	f	o	2	34	30				
FRANCE, &c.	The Helder ...	996·8	37	SE	2	C	1002·6	+4	34	0	S	3	—	b	1	2	39	32				
	C. Gris Nez ...	997·7	36	W	2	m	998·0	-4	34	0	SE	5	*	o	4	4	39	30				
	La Hève	999·3	41	WNW	4	c	997·5	*	35	-2	SSE	5	*	o	4	—	43	34				
	Brest (St. Mathieu)	1003·0	42	SW	4	C	999·7	-3	34	-2	SW	6	*	c	4	3	46	34				
	Rochefort (Ile d'Aix)	1004·4	45	WSW	5	o	1002·7	-3	46	+1	WSW	6	*	C	*	3	52	39				
	Biarritz												*									
	Paris	1001·2	37	NW	2	r	1004·0	-1	34	-3	S	3	—	o	*	4	46	30				
	Belfort	1004·4	39	WSW	6	c	1007·8	*	35	-2	W	4	*	o	*	1	46	34				
	Lyons	1005·3	44	—	0	c	1008·7	*	40	-8	SW	1	*	bc	*	—	46	35				
	Nice	1005·2	49	SW	4	o	1005·2	+2	47	+1	WSW	6	*	b	5	3	54	41				
	Perpignan ...	1007·7	45	NW	2	r	1010·9	o	45	-3	WNW	1	SW	bc	*	3	59	39				
	Sanguinaire ...	*	55	S	2	o	*	*	51		NW	3	*	o	5	—	61	45				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1010·0	45	W	1	o	1015·3	+1	36	-9	SW	1	—	b	*	5	46	30				
	Lisbon	1015·8	62	NNW	4	b	1015·9	o	43	-9	N	1	—	b	5	—	55	43				
	Azores (Horta) ...	1011·5	*	SE	4	c	1009·2	+1	57		SE	4	*	c	3	5	64	57				
	Madeira	1016·2	59	SW	2	o	1015·7	o	54	0	SW	2	—	o	2	—	59	54				
	Gibraltar	1016·6	56	NW	5	c	1012·8	*	54		NW	4	*	bc	3	—	64	52				
	Malta	*	*	*	*	*	1016·6	+1	67		SW	3	—	b	0	—	63	54				
	Limassol	*	*	*	*	*	1009·0	-4	52		—	0	—	o	3	—	75	61				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

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 7 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)										
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)			1·6	42	30	25	5	omfr	bc	o.bf
CAMDEN SQ. (British Rainfall) ...			1·9	41	27	25	6			
HAMPSTEAD (Reservoir)	*	100	2·8	34	24	15	4	osh.c	bx	oxsf
S. KENSINGTON (Museum Grounds)	*									
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
529	11·4	43·5

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.

THE MORNING OF MONDAY, 2ND APRIL, 1917.

GENERAL INFERENCE.

The wintry type of

conditions will be maintained.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

Warnings issued 3p.m. 1st.

STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

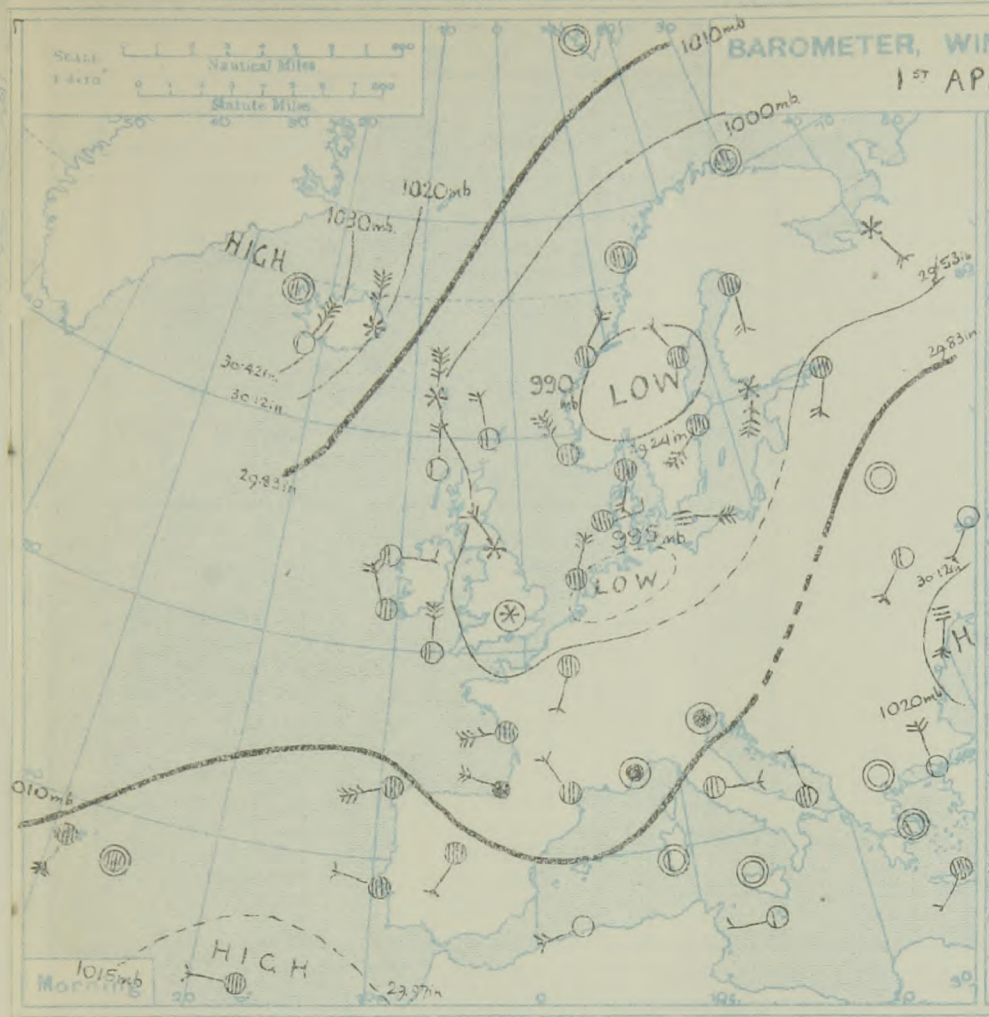
Normal Temperature of the Sea.

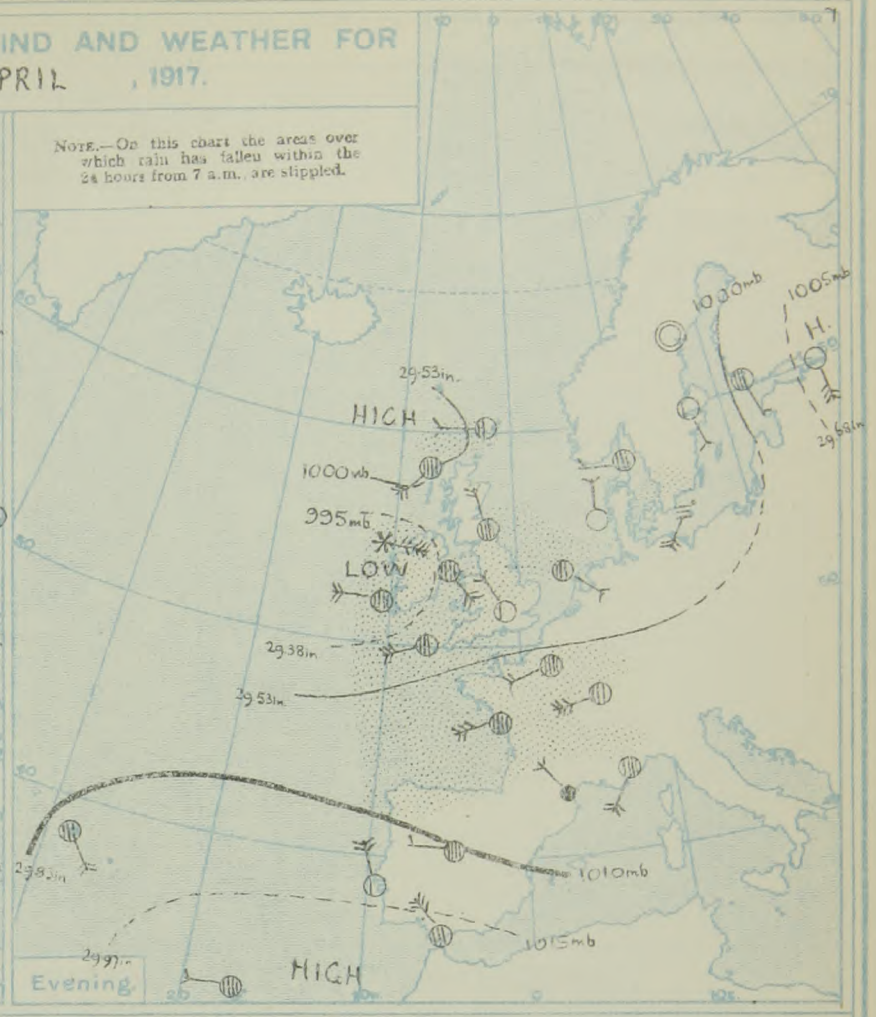
Below 40° | 40°-50° | 50°-60° | Above 60°

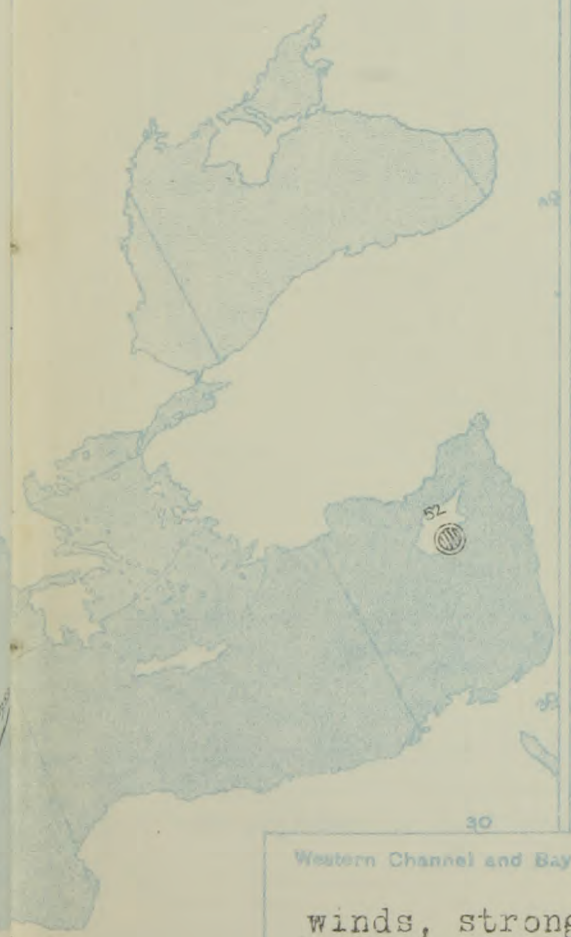
Scale of Tints for APRIL.

1000mb
995mb
990mb
1005mb
1015mb
29.83in.
29.68in.
29.53in.
29.38in.
29.24in.
29.97in.
LOW
HIGH
Barometer falling
Barometer rising
Bar rising

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







Forecasts Noon Monday to Noon Tuesday.

0 {a b} 1 Variable Easterly to Northerly winds, force very variable, strong at times locally; unsettled, some rain or snow; cold.

2 {a b} 3 Easterly winds, force variable, strong to a gale locally, backing Northerly; unsettled, some rain or snow; cold.

4 {a b c} 5 Fresh Southerly winds, strong to gale locally, veering West and North-West; unsettled, some rain or snow; cold.

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

7 {a b} Same as Nos. 2 to 4.

8 {a b} South-Westerly winds, veering North-West and North, force variable, strong to gale locally; unsettled, some rain or snow; cold.

9 {a b} 10 {a b} Northerly wind, force very variable; changeable, some rain or snow; cold.

11 South-Westerly to Westerly and North-Westerly winds, strong at times; rough sea; changeable, some rain and snow; cold.

FURTHER OUTLOOK.

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

Issue No. 20.220

DAILY WEATHER REPORT.

Monday 2nd April 1917.

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 ...	1007·0	28	E	4	b	994·3	-4	27		E	3	s	–	*	21
	Gorki						1010·0	*	37		e	0	b	–	*	27
	Velieki Luki ...	1002·3	38	SSW	3	c	1009·5	*	36		SSW	2	c	3	*	32
	Hangö	995·3	32	SSW	2	c	996·0	+2	?		SSW	8	s	–	*	27
	Riga	1001·7	35	SSW	2	c	1005·0	+2	34		SSW	3	c	1	*	32
	Petrograd ...	997·0	35	W	2	c	1001·9	+2	34		SSW	3	c	1	36	27
	Moscow	1009·9	38	SSW	3	c	1010·9	+1	36		SSW	3	c	1	*	30
	Kiev	1013·2	43	WSW	3	b	1015·7	+1	41		SW	2	bc	–	*	30
	Kharkov ...	1018·1	39	S	2	c	1022·2	+3	39		SW	2	b	–	*	27
	Kishinev ...	1015·1	54	SW	1	bc	1015·9	+1	43		SE	2	b	–	*	25
	Elisabetgrad ...	1017·0	46	SW	3	bc	1019·7	+2	41		SE	2	bc	–	*	27
	Nicolaiev ...	1019·7	46	SSW	4	bc	1020·7	*	41		S	4	r	–	*	27
	Odessa	1019·9	37	ENE	2	b	1020·3	0	39		SSW	4	r	–	*	25
	Tarkhankout...	1022·4	46	SSE	5	b		*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1011·8	54	WSW	6	b	1009·5	*	52		–	0	r	Trace	59	50
	Pesaro	1016·1	55	S	1	c	1012·2	*	52		S	1	o	–	64	48
	Rome	1019·0	52	SE	2	b	1015·7	*	55		SE	2	c	–	61	50
	Viesti	1017·5	54	SSE	1	b	1015·1	*	54		SSE	1	b	–	59	48
	Brindisi	1020·5	59	SE	2	b	1017·1	*	48		N	2	c	–	63	46
	Cagliari	1017·1	57	SE	4	b	1014·9	*	55		–	0	b	–	57	46
	Palermo	1020·9	52	–	0	b	1018·1	*	55		–	0	b	–	63	37
	Tripoli							*								
	Algiers															
SWEDEN.	Hernösand ...	985·6	30	SE	4	c	989·6	*	34		NNW	2	o	*	*	*
	Stockholm ...	992·4	34	S	2	c	994·4	*	36		SW	6	o	*	*	*
	Wisby	991·9	34	SW	4	b	992·6	*	34		W	?	b	*	*	*

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 ...	1034·6	10		–	0	bc
Reykjavik	1031·1	12		NNE	7	b
Vestmanna						
Seydisfjord	1022·6	10		N	8	s
Thorshavn	998·9	23		N	9	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	–	–	37	24	b	bc	8·0
	Banff	Trace	–	33	26	bc.b	b.bc.c	8·3
	Montrose	–	–	39	24	b	b	5·1
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	12	1	29	24	os	os.c.bc	1·0
	Skegness	–	2	40	29	os	o	0·2
Eng. N.W.	Morecambe							
	Southport	23	–	35	26	bc.b	b.bc.b	8·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl							
	Colwyn Bay...	*	*	36	30	bc	bc	8·5
	Llandudno	*	*	35	28	b.b	b	9·0
	Aberystwyth	*	*	38	30	s.cb	c.bc	10·0
	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			39	30	cv	orscm	0·5
	Felixstowe	Trace	3	39	30	cv	orscm	0·5
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate							
	Ramsgate							
	Hastings	–	1	43	32	bc.o	os, bc	3·0
	Eastbourne	–	1	42	33	p	p	2·6
	Seaford	*	*					
	Brighton							
	Worthing	Trace	1	42	33	bcs	bc	4·2
	Littlehampton	Trace	2	41	33	–	bcps	3·8
	Bognor	*	*					
	Bournemouth	2	–	44	34	–	–	4·9
England, S.W.	Weymouth...	*	*					
	Torquay							
	Paignton	*	*					
	Penzance							
	Newquay	3	Trace	41	33	bh	bhs, bq	8·1
	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.

..... 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth			
Greenwich			
Wick			
Valencia			

NOTES ON YESTERDAY'S WEATHER.

Temperature was exceptionally low, remaining below the freezing point all day in places. Rain or snow fell generally. Sunshine varied greatly, none in places to more than 11 hours 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 93

Tuesday 13rd April.

	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 ...	1005·4	39	E	4	c	1007·6	0	38	+2	NE	4	–	o	4	–	39	36	bc.cq	e	bc.o	*
	Deerness (Orkney)	1002·0	36	ESE	6	ophs	1006·1	*	38	+1	ENE	5	SW	bc	4	3	38	36	c.or	ophs	oph.c.bc	0·3
	Stornoway ...	1000·2	34	ESE	3	bcx	1006·4	+3	38	+8	ENE	6	–	bcq	5	–	40	29	c.b	bcx	bcq	5·4
	Castlebay (Barra Isd.)	998·2	35	NE	4	bc	1004·1	+4	39	+9	NNE	5	–	oq	6	0·3	39	30	osp.c	csp.bc	bc.oq	3·2
	Glasgow ...	995·7	30	ENE	4	o	995·9	+3	32	+10	NE	6	–	s	*	2	33	20	c.o	osp	oqs	R·7
	Eskdalemuir ...	992·9	28	NNE	6	osq	992·2	0	32	+23	NNE	4	–	os	*	20	32	9	c.o	o.os	os	0·0
	Malin Head ...	992·5	32	E	3	oms	995·5	0	36	+7	NE	6	N	eq	6	1	38	28	bcqs	beps	omps	2·9
	Blacksod Point	994·7	36	N	6	cmp	997·9	?	36	+9	NE	5	–	omq	6	0·3	37	27	bc	cmp	cmps	*
	Valencia ...	998·0	37	NNW	4	bc	998·9	+1	36	+3	NNE	3	NW	c	3	7	41	30	opshq	os.be	cphqt.c	3·0
	Roche's Point	996·0	37	NNW	4	b	995·0	*	34	+5	NW	5	–	o	4	0·4	37	28	csp.o	c.bc.b	bsp.o	*
	Birr Castle ...	994·5	32	NW	1	o	994·2	*	30	+3	NNW	3	–	s	*	2	38	20	C.	c.o	os	8·3
	Donaghadee ...	993·1	30	ENE	5	ompqs	993·7	+4	34	+5	E	3	E	cqm	3	1	36	29	bcm	cm	omqps	*
	Liverpool (Bidston)	988·6	35	N	1	bc	992·2	+1	30	+7	SW	1	–	b	1	13	36	23	osq.b	bc.o	b	2·9
	Holyhead ...	987·8	34	NNW	6	cq	991·8	0	31	+4	NE	3	NE	c	2	4	34	26	oqs	oqs.c	cm	0·0
	Pembroke (St. Ann's)	991·7	33	NNW	5	cqps	991·6	–5	35	+10	WSW	2	W	bc	3	3	38	29	oqps	oqps	cpsbc	0·9
	Scilly (St. Mary's)	995·7	36	NW	6	eq	996·6	–2	41	+3	WNW	6	NW	cqph	6	3	41	33	cps.bc	bc.cq	bcqph	2·4
	Falmouth ...	993·3	33	NW	5	csrq	995·0	–2	37	+6	WSW	5	–	orspq	*	2	40	29	c.bc.sq	cs.srq	crspq	3·3
	Jersey (St. Aubin)	989·1	40	W	7	o	999·5	*	38	0	SW	4	SW	C	4	1	46	32	o.bc	c.op.o.c	orsp.c	3·6
	Portland Bill ...	987·3	37	WNW	4	o	994·5	+2	40	+5	SW	5	SW	c	4	5	42	33	cps	bc.os	o.cp	*
	Dungeness ...	989·3	39	S	5	bc	993·1	+9	34	–4	WSW	7	–	opqs	6	11	41	32	cr.	C.	cpsq	*
	Dover	990·1	37	S	4	o	994·8	+3	33	+4	W	4	–	s	6	6	39	24	osq.o	o.c.o	rs	0·3
	Wick	1001·2	35	ESE	2	bc	1005·5	+2	38	0	ENE	5	–	c	5	1	49	28	osp.bc	bc	o.cmqq	*
	Nairn	999·6	29	E	2	cq	1002·9	*	37	+12	ENE	5	–	oqu	4	2	37	23	c.bc	bc.c	spqo	8·7
	Aberdeen	999·3	34	ENE	4	o	1000·8	+3	37	+13	ENE	6	–	o	5	—	37	23	bc.b	b.o	oq	8·3
	Leith	995·1	33	E	3	s	994·9	0	35	+11	NE	7	–	r	5	16	36	20	bx.bc.o	o.c.osp	sr.	*
	Tynemouth ...	990·1	35	SE	5	o	989·0	–1	37	+15	ESE	4	E	cqp	6	16	37	21	omqps	omqs	oqp	*
	Spurn Head ...	990·1	33	SSE	2	bc	990·6	+1	34	+2	NW	4	–	cqm	4	1	36	30	oqps	cps	c	0·0
	Yarmouth ...	990·1	35	S	4	c	989·6	+2	33	–2	N	2	–	os	2	14	39	32	omqs	s.bcqps	omd.os	0·0
	Clacton-on-Sea	999·0	37	SSE	3	bc	992·3	+6	33	–4	WNW	3	–	o	2	9	38	32	oqsd	oqp.bc	bc.osq	1·4
	Nottingham ...	988·8	35	E	2	b	991·9	*	30	+3	SW	1	–	om	*	0·3	41	26	s.o.c	c.b.	bo.oc.o	11·1
	Benson (Oxon.) ...	987·7	37	SSE	2	o	993·6	+5	30	–2	—	0	–	bc	*	5	41	30	bc.	c.	o.s	*
	Sth Farnborough	987·4	37	ESE	3	c	994·8	+7	30	–3	WSW	3	–	c	*	4	41	30	ops.	c.e ops.c	c.or.hrsc	3·4
	London (Kew Obsy.)	988·4	38	SE	2	bc	994·2	+6	34	0	WSW	3	W	o	*	14	40	33	oms.cms	cm.bc	bc.omrs	3·7
NORTHERN EUROPE.	Spitsbergen ...	1014·9	–22	S	2	b	1015·1	+2	–27	+2	SSE	1	*	c	*	*	–22	–35				
	Vardö	1006·4	16	N	3	s	1012·3	+3	16	–3	N	1	–	o	4	*	19	16				
	Bodö	1010·7	29	E	4	c	1011·3	–1	19	–11	E	2	–	bo	2	–	30	16				
	Christiansund ...	1009·9	36	NE	1	o	1010·9	0	34	0	E	1	–	b	3	–	39	30				
	Skudesnaes ...	1005·0	34	–	0	b	1005·9	0	34	+4	NE	3	–	b.	2	–	39	27				
	Færder (X'tania Fjord)	1005·7	34	NNW	2	b	1008·0	+1	32	+4	NNE	5	–	b	2	–	36	28				
	The Scaw (Skagen)	1004·6	34	–	0	o	1007·0	+1	30	–6	ENE	2	–	f	2	–	39	28				
	Blaavands Huk	1004·7	34	S	2	b	1001·0	+1	34	+4	ESE	4	–	o	o	1	37	27				
	Copenhagen ...	1006·4	34	NW	1	b	1007·0	+1	30	–2	ESE	3	–	b	*	1	37	27				
	Bornholm ...	1005·9	30	ESE	1	f	1007·0	+1	27	–3	ENE	3	–	f	o	–	36	27				
FRANCE, &c.	The Helder ...	996·3	41	ESE	2	o	995·0	+3	34	o	SSE	4	–	c	3	3	43	36				
	C. Gris Nez ...												*									
	La Hève	986·9	37	SW	6	o	998·7	*	33	–2	WSW	6	*	s	7	3	41	30				
	Brest (St. Mathieu)	997·2	39	NW	8	c	1001·3	o	40	+3	W	5	*	c	4	7	43	34				
	Rochefort (Ile d'Aix)	1009·5	40	WNW	8	r	1005·5	+2	38	–8	NW	5	*	r	*	15	46	34				
	Biarritz												*									
	Paris	994·4	41	S	4	r	1002·9	+2	36	+2	SSW	3	–	o	*	7	48	34				
	Belfort	1004·6	45	SW	6	bc	1009·6	*	32	–3	—	0	*	m	*	Trace	44	32				
	Lyons	1004·2	49	WSW	2	b	1008·7	*	36	–4	SS	0	*	o	*	—	50	34				
	Nice	1009·4	48	WSW	7	b	1006·1	o	44	–3	E	4	*	o	4	Trace	61	41				
	Perpignan ...	1005·5	50	N	2	b	1009·7	+3	43	–2	NW	2	SW	c	*	–	61	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1009·7	52	WSW	1	b	1014·1	+2	39	+3	WSW	4	–	b	*	–	52	36				
	Lisbon	1015·3	52	NW	3	c	1016·4	+1	46	+10	N	1	–	o	5	–	55	38				
	Azores (Horta) ...	1010·3	*	SW	4	c	1015·1	+1	55	–2	—	0	*	b	1	–	68	55				
	Madeira	1015·5	61	SSW	2	bc	1016·4	–2	55	+1	S	3	–	o	3	–	61	55				
	Gibraltar	1013·9	55	NW	6	o	1015·6	*	50	–4	NW	5	*	b	4	–	67	49				
	Malta	*	*	*	*	*	1013·7	+1	63	+6	WSW	4	–	b	1	–	66	57				
	Limassol	*	*	*	*	*	1009·3	+3	64	+12	W	3	–	o	2	–	75	52				
	Alexandria ...	1013·6	63	NNE	4	o	1014·4	+2	63	–1	NNW	3	NW	c	2	1	70	59				
	Cairo (Helwan) ...	1009·5	68	N	3	c	1013·6	+5	63	–1	N	3	–	o	*	Trace	79	59				

Notes

Glosgow: 2 cm Snow.
Eskdalemuir: Very heavy snow drifts
Leith:- 5 cm Snow

Eskdalemuir:-
Solar Halo, 8.15 A.M.
Aberdeen:-
Solar Halo, afternoon.

GALES

Duration and Extreme Force in British Islands.

Blacksod: 2nd 6 A.M. to 10 A.M.
Extreme, N.E. 8
Valencia: Gust 24 m/s at Noon
Scilly: 2nd 10 A.M. to 1 p.m.
Extreme N.W. 9, at noon
Dungeness: 2nd 2 A.M. to Noon
Extreme, S.E. 8.
Clacton:- 2nd 1 A.M. to 1 p.m.
Extreme, SS.E. 8.
Glasgow: N.E. 8. Early A.M. 3rd
Leith:- N.E. 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.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	88	72	1·9	42	32	29	10	os	c.os	bc
CITY (Bunhill Row)	*	*	1·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	72	69		40	33	32	9	obs	bc	bc.qm
CAMDEN SQ. (British Rainfall) ..	73	70	1·7	42	31	30	10	os	o.bc	*
HAMPSTEAD (Reservoir)	*	86	1·6	38	28	25	8	os.bc	cm	bcx
S. KENSINGTON (Museum Grounds)	*	85	1·6	41	32	31	8	c.os	os.bc	c.or.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

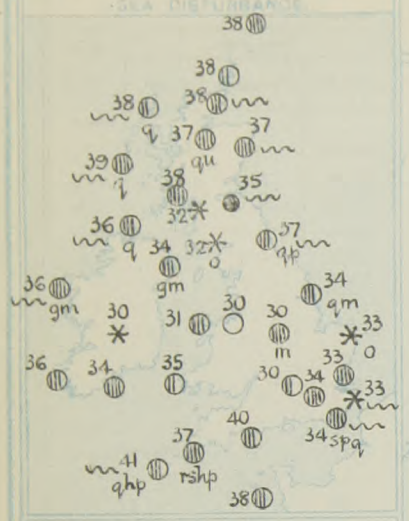
Total. Joules.	Average Rate. Milliwatts.	Max. Rate. Milliwatts.

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.

THE MORNING OF TUESDAY, 3RD APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE.

The depression off Eastern England, will become less deep, but that over Wales will increase in intensity for a time.

EXPLANATION.

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

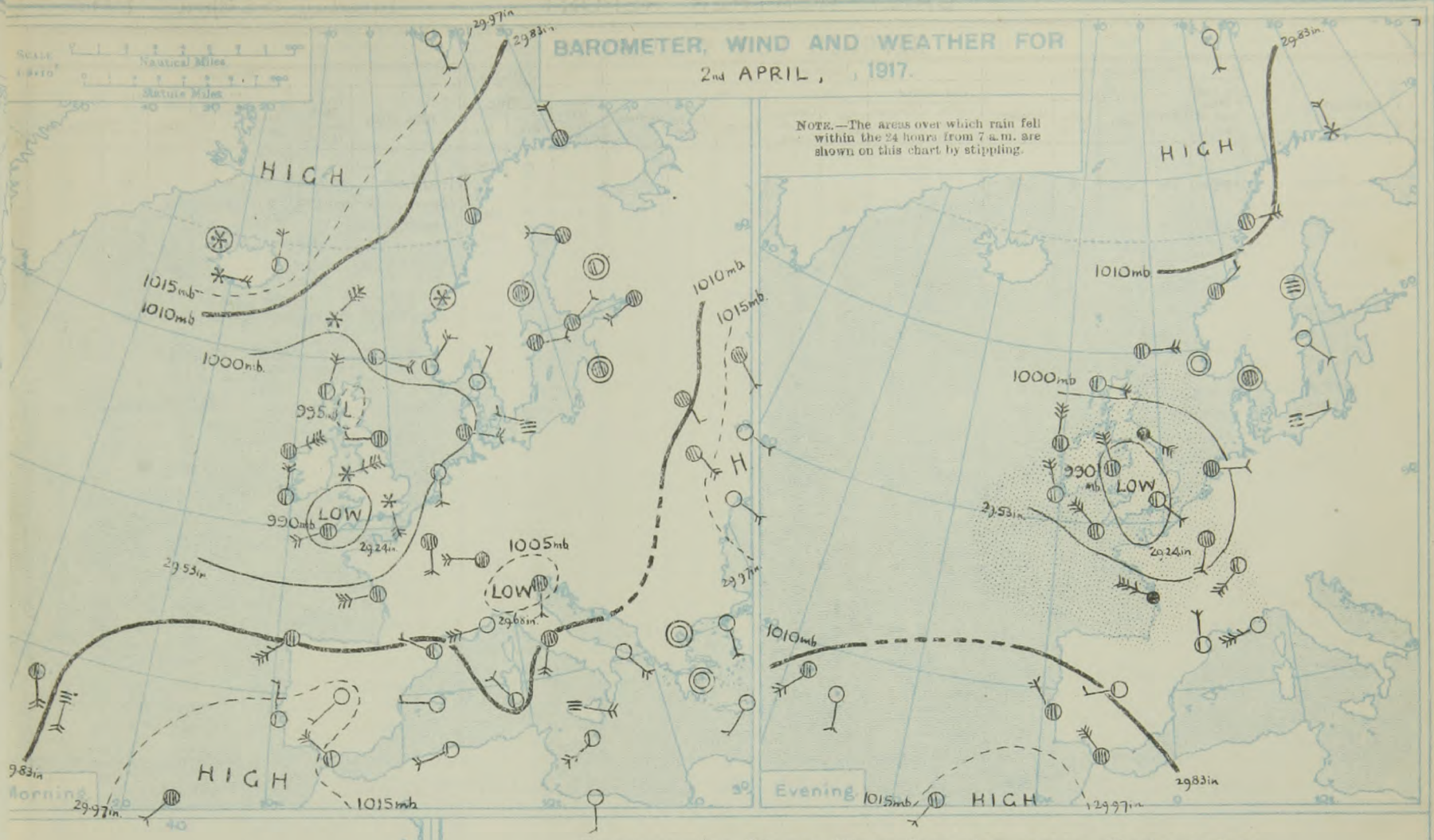
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 ≈≈.

BAROMETER, WIND AND WEATHER FOR 2nd APRIL, 1917.



Forecasts Noon Tuesday to noon Wednesday.

0 a b 1 Wind between East and North, strong to moderate; dull generally, some rain, sleet or snow; cold.

2 a b 3 Wind light or moderate, variable to Northerly,

4 a b c changeable, some rain , sleet or snow; cold.

5 Wind between South-West and North-West, moderate or light, fresh locally; changeable, some rain, sleet or snow; cold.

6 a b Same as Nos. 0 and 1.

7 a b Wind light to fresh from some Northerly point; changeable, some rain, sleet or snow; cold.

8 a b North-Westerly winds, fresh or strong to moderate; changeable, some rain, sleet or snow, cold.

9 a b Wind fresh to moderate from some Northerly

10 a b point; changeable, some rain, sleet or snow; cold.

Western Channel and Bay. 11

W est and NorthWest winds, fresh; sea rather rough, some showers, rain or sleet.

FURTHER OUTLOOK.

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

Issue No. 20,221. **DAILY WEATHER REPORT.** Tuesday, 3rd April, 1917.

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 ...	998·1	23	SW	3	0										
	Gorki						1009·5	*	36	−1	S	1	0	−	*	30
	Velieki Luki ...	1010·0	37	S	2	0	1007·8	*	37	+1	SSE	2	0	1	*	36
	Hangö	1009·7	27	−	0	c	1001·3	+1	30		ENE	2	0	−	*	28
	Riga						1005·6	+3	36	+2	−	0	0	4	*	32
	Petrograd ...	1005·2	36	S	5	b	1001·6	−1	34	0	WSW	3	0	5	41	30
	Moscow	1018·4	36	S	2	0	1017·6	−3	37	+1	SSE	2	0	1	*	32
	Kiev						1014·0	0	39	−2	SSE	4	c	0	*	37
	Kharkov ...	1022·0	47	SSW	2	b	1021·7	0	37	−2	SE	2	b	0	*	34
	Kishinev ...	1014·9	48	SE	2	b	1013·9	0	43	0	SSE	2	0	0	*	25
	Elisabetgrad ...	1019·3	45	SE	2	b	1017·7	0	37	−4	SE	2	b	0	*	34
	Nicolaiev ...	1019·1	47	−	0	b	1017·0	*	37	−4	−	0	b	0	*	36
	Odessa	1018·6	45	SSW	3	b	1016·8	−1	41	+2	SSE	3	b	−	*	39
	Tarkhankout...	1020·3	54	SE	4	b		*							*	
	Soukhoum ...	1014·4	64	NNE	1	b	1013·5	+2	64		−	0	r	−	*	57
MEDITERRANEAN.	Venice	1005·7	52	S	1	r	1002·9	*	52	0	S	2	0	Trace	55	50
	Pesaro	1008·9	45	−	0	bc	1005·9	*	55	+3	SSE	2	0	−	64	50
	Rome	1013·1	54	SE	4	c	1010·5	*	55	0	S	4	0	−	61	54
	Viesti	1012·9	59	SSW	2	b	1010·5	*	59	+5	ESE	1	c	−	61	46
	Brindisi	1015·4	63	SE	3	b	1014·1	*	45	·	SE	3	b	−	63	54
	Cagliari	1011·0	61	SE	2	b	1009·7	*	57	+2	NW	2	b	−	63	52
	Palermo	1015·8	57	−	0	b	1011·8	*	66	+11	ESE	4	!	−	66	50
	Tripoli						1016·7	*	63	·	S	1	b	−	72	50
	Algiers	1011·5	61	NW	2	b	1014·4	+3	59		WSW	3	b	−	75	54
SWEDEN.	Hernösand ...	998·1	34	−	0	0	1003·4	*	30	−4	−	0	0	*	*	*
	Stockholm ...	998·6	30	SSE	2	b	1002·0	*	28	−8	E	2	0	*	*	*
	Wisby	995·9	34	E	2	0	1001·0	*	34	0	SW	4	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 ...	1018·6	25	+15	−	0	S
Reykjavik	1016·7	21	+9	E	3	S
Vestmanna						
Seydisfjord	1018·6	19	+9	N	3	b
Thorshavn	1000·9	35	+12	NE	6	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. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature Max. F.	Temperature Min. F	Weather Forenoon.	Weather Afternoon.	Sunshine Hr.
Scotland.	Oban	−	−	39	21	os	b.o	3·4
	Banff	2	−	33	21	b	b.bc	9·3
	Montrose	−	2	35	22	b	b	4·2
	Carnoustie	*	*					
	St. Andrews...	r	−	35	22	c	o	4·6
Eng. N.E.	Harrogate	1	5	35	14	os	c.bc	0·7
	Skegness	2	4	35	26	cf	bc	0·2
Eng. N.W.	Morecambe							
	Southport	2	Trace	40	21	os	c.bc.c	2·3
Midlands.	Leamington Spa							
	Malvern	4	−	43	27	bc	bc	6·0
	Ross-on-Wye	6	Trace	43	29	bcs b	bp.c	8·2
Wales.	Rhyl							
	Colwyn Bay...	*	*	35	25	s	s	3·7
	Llandudno	*	*	35	25	s.sb	b	3·9
	Aberystwyth	*	*	36	28	os.c	c.os	1·0
	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	−	9	38	25	obsr	obrs	0·0
	Felixstowe	−	2	38	27	cr.osr	or.bc	0·5
	Walton-on-Naze							
	Southend-on-Sea	4	Trace	41	27	os	o.c.bc b	1·2
England, S.E.	Margate	−	5	40	29	os	or	0·5
	Ramsgate							
	Hastings	1	1	41	30	bc.os	bc	2·0
	Eastbourne	1	−	44	28	oq	bcq	2·7
	Seaford	*	*	42	28	r	c	2·8
	Brighton	2	−	41	29	o	oc	2·1
	Worthing	2	Trace	42	28	bch	bc.c	3·8
	Littlehampton	2	4	41	30	o	o.bc	2·8
	Bognor	*	*					
	Bournemouth	3	8	38	28	ch	c.os	2·0
England, S.W.	Weymouth...	*	*					
	Torquay	7	2	40	33	b.bcp.ob	c.op	4·3
	Paignton	*	*	45	34	bcp	bch	7·3
	Penzance	7	−	41	32	ohs.c	c	4·5
	Newquay	4	3	39	30	bcs	sq.bs	2·8
	Bude							
	Ilfracombe	4	2	40	32	osr	rs.os	0·0
	Weston-s-Mare	13	−	43	30	b.bc	bs.bcc	5·5

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

3rd and 4th April, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	5.26	11.57	6.28
	5.24	11.56	6.29
Greenwich	5.34	12.4	6.34
	5.32	12.3	6.35
Wick	5.38	12.16	6.54
	5.35	12.15	6.56
Valencia	6.15	12.45	7.15
	6.13	12.44	7.16

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in most districts. A considerable amount of snow fell in Great Britain, and its immediate neighbourhood. Thunder occurred at Valencia during the night. Much bright sunshine was recorded at some Scottish stations, and also in Central England.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; 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, 1917. No. 94

Wednesday 4th April.

	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 Rain-fall Milli-metres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sun-shine for Yester-day.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1006·3	38	NE	3	c	10006	−1	31	−7	NNW	2	N	bc	2	1	40	31	0.c	c	bcsp	*
	Deerness (Orkney)	1006·4	37	NNE	4	bc	1002·0	*	34	−4	N	4	NW	bcps.	3	1	43	33	c.	bc	bcps.c	8·6
	Stornoway ...	1008·1	41	NE	5	b	1004·3	−1	33	−5	N	1	—	b	1	1	45	33	bc	bc.b	bc.ops.b	7·6
	Castlebay (Barra Isd.)	1008·3	41	NNE	4	bcq	1005·8	−1	35	−4	N	1	—	bc	2	0·3	43	34	o.cq	c.bcq	bcq.bc	6·5
	Glasgow ...	1002·5	37	NE	4	o	1004·4	+1	30	−2	WNW	1	N	b	*	0·3	40	28	os.cq	orsp	o.c bc.b	1·1
	Eskdalemuir ...	999·4	33	NNE	6	o	1003·2	+2	28	−4	N	3	NE	bc	*	9	34	27	os	os.c.o	o.os.bc	0·8
	Malin Head ...	1003·6	41	NNE	6	bcq	1004·6	0	38	+2	NE	2	N	b	3	—	42	35	cmq	cmq	bc	0·6
	Blacksod Point	1004·3	40	NNE	6	cm	1008·1	?	34	−2	—	0	—	bc	3	1	40	32	cmps	cm	bcp	*
	Valencia ...	1002·2	38	N	5	r	1008·5	+2	38	+2	NE	1	N	bc	2	2	43	35	bcphs	cphr	op.o.c.bc	4·3
	Roche's Point	998·7	37	NW	3	r	1006·1	*	37	+3	NW	4	NW	bc	3	1	42	34	cg	cgr	bc	*
	Birr Castle ...	999·7	37	NNW	2	o	1006·4	*	31	+1	NW	1	—	bc	*	3	38	30	c.os	os.or	o.bc	1·6
	Donaghadee ...	999·7	39	NE	5	cmqp	1004·5	+2	37	+3	NE	3	N	bcx	3	1	41	34	cmqp	cmqp	cmq.bc	*
	Liverpool (Bidston)	995·8	37	NNW	2	o	1001·1	+2	36	+6	NNW	3	N	bc	2	—	40	30	b.	b.	bc	8·4
	Holyhead ...	996·0	40	ENE	4	c	1002·6	+2	38	+7	NNE	6	NE	cg	5	0·4	44	30	xc.bc	bc.c	c.op.c	8·0
	Pembroke (St. Ann's)	997·1	37	NNW	2	bc	1003·4	+5	35	o	N	2	—	b	2	2	39	32	bc.cps	cps.bc	bc.b	3·3
	Scilly (St. Mary's)	998·7	40	WNW	2	cqph	1002·7	+1	40	−1	N	3	N	c	4	4	45	36	cqph	cqph	cp.c.bc	5·3
	Falmouth ...	998·1	38	W	3	b	1002·1	+3	31	−6	WNW	1	—	bx	*	3	42	29	bcps	cs.q.cs	bw.x	4·8
	Jersey (St. Aubin)	999·9	41	SW	3	o	1000·1	*	39	+1	WNW	2	—	o	2	2	42	35	c.op	crs.h.o	b.op.o	0·8
	Portland Bill ...	995·2	39	W	5	cph	1000·7	+4	34	−6	NNW	3	NW	c	3	1	41	33	bcps	cph	bc.c	*
	Dungeness ...	997·8	36	SW	6	bcq	998·9	+2	33	−1	W	3	—	bc	3	5	44	32	cpsq	bcps	cqsr.c	*
	Dover	999·3	33	SSW	6	s	999·2	+2	32	−1	NW	3	W	bc	2	8	43	30	s.o.bc	bc.osh	osh.bc	4·2
	Wick	1006·4	39	NE	3	c	1003·3	−2	32	−6	N	2	—	bc	4	0·3	40	29	c.omq	o.bc.cm	cmphs	*
	Nairn	1005·6	38	ENE	3	om.c	1003·1	*	31	−6	—	0	—	ogs	1	1	39	29	cqq	cq	fq.sp	0·7
	Aberdeen	1003·7	38	NE	5	c	1002·2	0	34	−3	NW	4	—	c	3	—	41	30	oq	oq.c	b.bc.c	2·1
	Leith	1001·1	37	NE	6	o	1003·3	+1	34	−1	W	1	N	bc	3	6	39	33	rsq.r	o.r.s.m	or.o.bc	*
	Tynemouth ...	998·0	38	E	3	cmq	1000·2	+1	38	+1	NNE	4	N	cmq	4	5	38	34	cmqp	cmqp	cmq	*
	Spurn Head ...	996·1	37	NNW	1	om	998·4	+1	36	+2	NE	4	—	cx	4	1	40	30	cm	om	fx	0·1
	Yarmouth ...	997·7	36	SW	3	cp	997·8	+2	32	−1	NW	3	—	bcm	3	8	43	32	bc	bc.sps	bcm.os	3·8
	Clacton-on-Sea	997·9	38	S	4	c	999·4	+3	35	+2	WSW	3	W	bc	2	0·3	43	31	cg.c.bc	cp.	c.b.bc	3·6
	Nottingham ...	995·1	39	S	2	bc	1000·1	*	34	+4	N	3	N	bc	*	0·3	45	30	o.c	c.bc	cp.o	3·2
	Benson (Oxon.) ...	995·4	35	SSW	3	c	999·5	+4	34	+4	WNW	2	—	om	*	0·2	42	27	bc	bc	bc.o	*
	Sth Farnborough	995·7	37	SW	3	bc	999·6	+3	34	+4	WNW	2	—	o	*	3	43	30	br.o.r.s.m	os.bc	bc.o	5·5
	London (Kew Obsy.)	996·2	39	S	3	bc	1000·0	+4	34	o	SW	2	—	om	*	2	43	33	o.b.or.h.fq	o.or.o.bc	bcm.oms	3·2
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1004·4	36	NE	2	o	1003·9	o	36	+6	SSE	3	—	o	3	—	36	30				
	Blaavands Huk	1001·5	36	SE	3	s	1002·4	−1	34	o	S	3	—	o	3	1	39	32				
	Copenhagen ...	1006·7	32	SSE	3	o	1006·9	−1	34	+4	SSE	2	—	f	*	1	34	30				
	Bornholm ...	1007·7	30	SE	4	f	1007·9	−1	30	+3	S.E	2	—	f	o	4	30	27				
FRANCE, &c.	The Helder ...	1000·6	37	SSW	4	b	999·1	−1	36	+2	S	3	—	o	1	1	39	34				
	C. Gris Nez ...	999·3	36	S	4	s	999·9	+3	37	+2	WSW	4	*	o	4	16	41	32				
	La Hève							*					*									
	Brest (St. Mathieu)	1001·5	43	W	4	bc	1001·5	+2	36	−4	NE	1	*	o	3	—	45	37				
	Rochefort (Ile d'Aix)	1007·9	45	WSW	6	c	1004·2	o	45	+7	S	6	*	c	*	5	48	37				
	Biarritz	1011·8	50	W	2	b	1007·5	−1	40		SW	5	*	bc	3	1	50	39				
	Paris	1004·3	43	SSW	5	o	1003·4	−2	39	+3	S	4	—	o	*	Trace	50	36				
	Belfort	1010·3	41	W	4	c	1013·1	*	36	+4	—	0	*	m	*	—	45	30				
	Lyons	1009·3	41	WNW	5	o	1012·6	*	32	−4	WSW	1	*	b	*	—	51	31				
	Nice	1004·7	48	WSW	5	b	1013·0	+4	43	−1	E	3	*	b	3	—	57	34				
	Perpignan ...	1011·1	50	NW	3	o	1013·1	−1	37	−6	—	0	—	b	*	—	55	32				
	Sanguinaire ...	*	57	S	9	o	*	*	52		E	2	*	bc	4	—	63	48				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1012·2	50	SSW	1	bc	1015·1	+1	36	−3	SSW	1	—	o	*	—	52	32				
	Lisbon	1015·4	54	NNW	2	c	1009·7	−3	50	+4	WNW	1	—	r	5	5	57	48				
	Azores (Horta) ...	1015·4	*	SSW	4	bc	1014·6	o	59	+4	SE	4	*	m	2	—	68	55				
	Madeira																					
	Gibraltar	1015·6	53	NW	4	b	1012·5	*	50	o	NW	4	*	b	3	—	62	48				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1013·9	+3	61	−3	—	0	—	b	2	—	73	46				
	Alexandria ...	1015·0	61	N	3	bc	1017·1	+1	63	o	NE	2	NE	c	1	—	72	59				
	Cairo (Helwan) ...	1012·8	66	N	4	b	1015·8	+3	61	−2	NE	3	—	bc	*	—	75	57				

Notes

Deerness:- Solar Halo and three mock suns observed.

Castlebay:- Solar Halo and Corona observed.

Jersey:- Lunar Halo at 21h.

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.	Rain-fall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	93	85	5·8	45	31	29	2	b,c	c. orsp	bc.osp
CITY (Bunhill Row)	*	*	3·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	80	3·9	46	32	30	1	bc.od	od	o.bs.bm
CAMDEN SQ. (British Rainfall) ..	94	93	3·3	45	31	28	1	b.bc	og.o	*
HAMPSTEAD (Reservoir)	*	93	2·7	40	29	21	1	bc.osr	bmx	c.ox
S. KENSINGTON (Museum Grounds)	*	70		44	32	29	1	r.bc.g	og.o	o.c.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

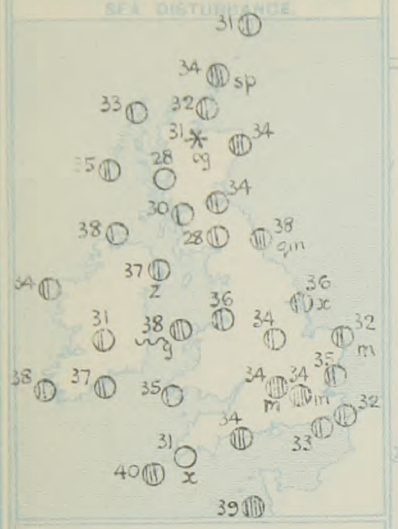
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
931	19·9	63

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.

THE MORNING OF WEDNESDAY, 4TH APRIL, 1917.

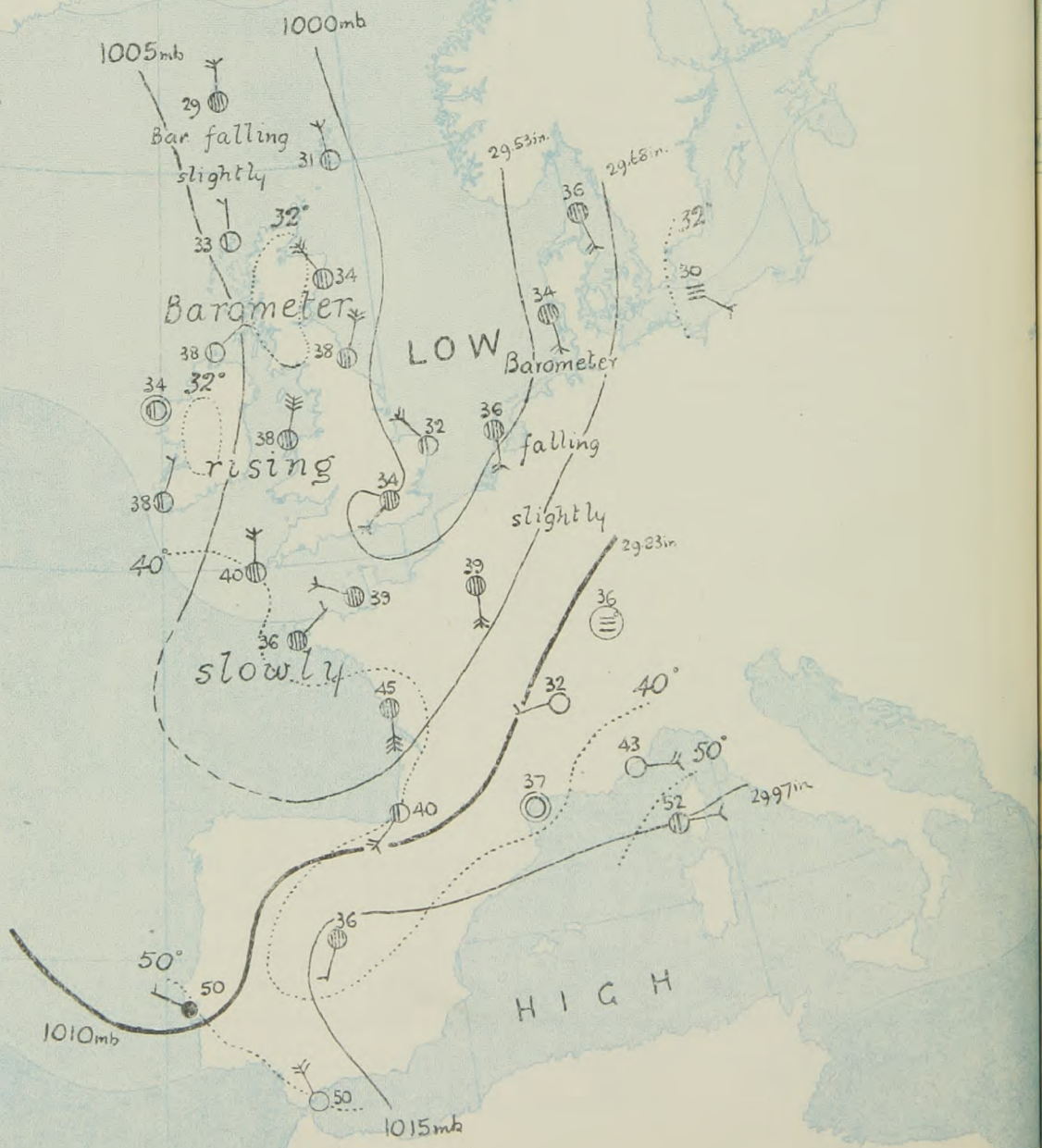
TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE.

Local irregularities in pressure are likely to cause showers of rain, sleet or snow in various places.



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.
⊤₂, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

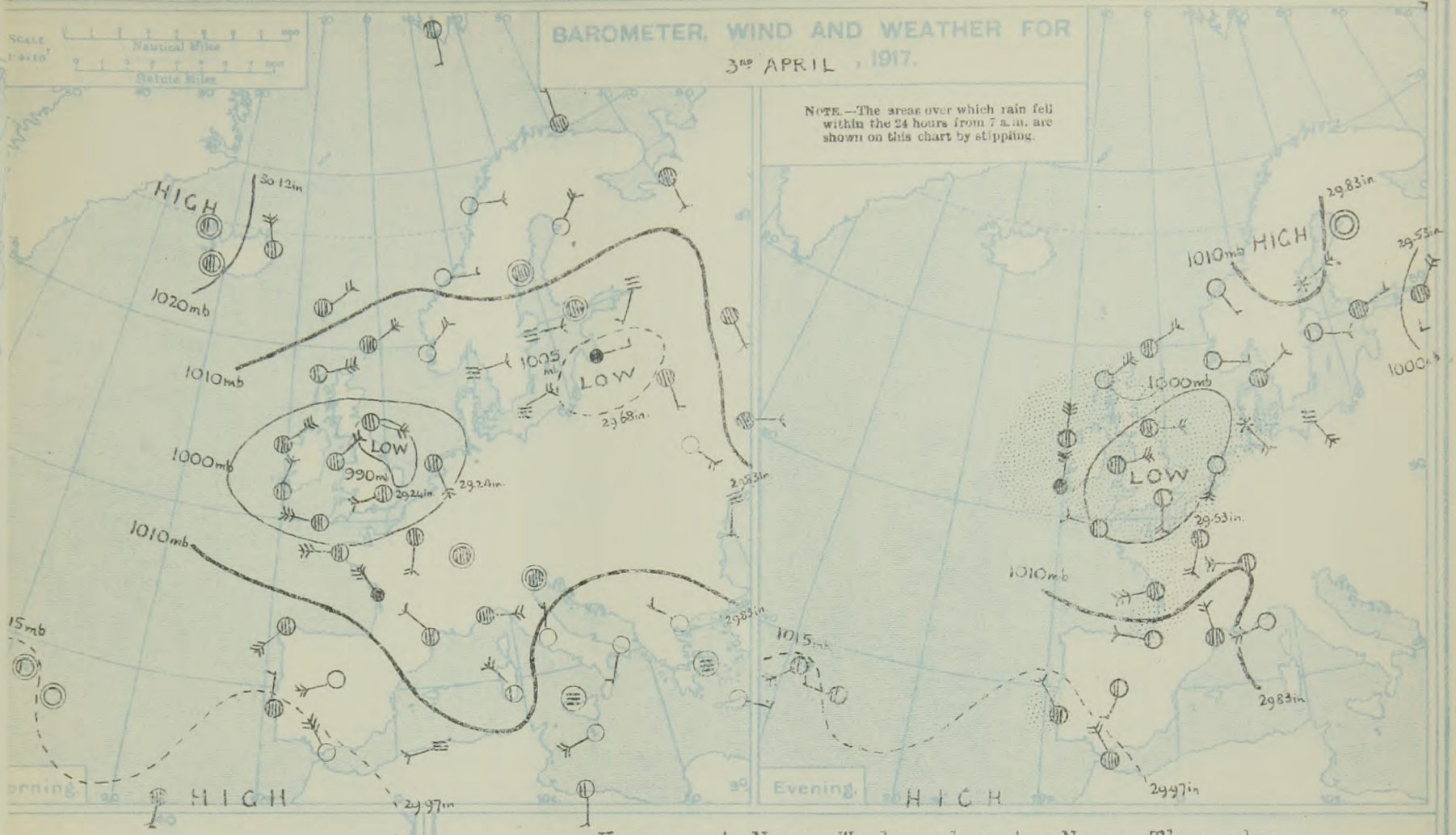
Normal Temperature of the Sea.

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

Scale of Tints for APRIL.

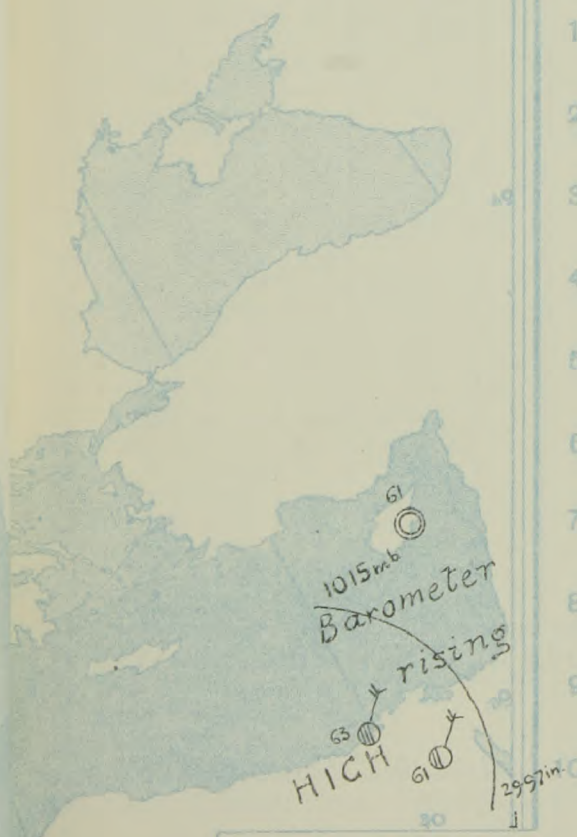
BAROMETER, WIND AND WEATHER FOR 3rd APRIL, 1917.

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



Forecast Noon Wednesday to Noon Thursday.

0 a b 1 2 a b 3 4 a b c 5 6 a b 7 a b 8 a b 9 a b 10 a b	Wind mainly between North-West and North-East; mostly fair, but local showers of snow, sleet or rain; cold.	
Western Channel and Bay. 11	Wind light, North-West and North; sea moderate or slight; fair generally.	



FURTHER OUTLOOK.

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

Issue No. 20,222 — DAILY WEATHER REPORT. — Wednesday, 4th April, 1917.

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 ...	1001·7	28	—	0	bc	1012·8	+1	32	·	S	2	o	–	*	28
	Gorki						1005·7	-4	34	-2	S	1	o	–	*	34
	Velieki Luki ...	1010·4	36	–	o	f	1004·4	*	34	-3	r	o	f	6	*	34
	Hangö	1008·0	33	–	o	s	1010·4	o	32	+2	–	o	o	–	*	25
	Riga	1008·7	37	–	o	o	1004·8	-2	37	+1	E	1	r	2	*	34
	Petrograd ...	1004·2	36	WSW	2	o	1009·6	-1	30	-4	SW	1	f	–	37	30
	Moscow	1013·5	41	S	3	c	1012·8	-1	34	-3	S	2	o	–	*	32
	Kiev						1007·4	-3	39	o	SE	3	b	–	*	37
	Kharkov ...	1015·5	48	S	3	b	1011·5	-1	39	+2	ESE	2	o	–	*	37
	Kishinev ...	1009·0	50	SE	1	b	1007·0	o	41	-2	S	2	b	–	*	39
	Elisabetgrad ...	1012·0	48	ESE	2	b	1009·7	o	39	+2	SE	2	f	–	*	34
	Nicolaiev ...	1011·0	52	–	o	b	1009·5	*	43	+6	–	o	c	–	*	36
	Odessa	1011·9	48	SW	2	b	1009·7	o	45	+4	SSW	2	f	–	*	39
	Tarkhankout...							*							*	*
	Soukhoum ...														*	
Mediterranean.	Venice	1006·6	52	WSW	1	b	1008·7	*	50		–	o	o	Trace	63	46
	Pesaro	1009·3	52	S	1	b	1009·9	*	50	-5	–	o	o	–	63	45
	Rome	1012·3	54	S	1	b	1011·3	*	52	-3	N	1	b	–	64	43
	Viesti	1009·3	63	SE	4	b	1011·5	*	59	o	–	o	b	–	62	46
	Brindisi	1010·9	57	SSE	2	b	1011·8	*	50	+5	–	o	b	–	68	45
	Cagliari	1011·0	64	SW	3	b	1008·3	*	57	o	NW	3	b	–	64	44
	Palermo	1012·9	69	–	o	b	1011·5	*	54	-12	–	o	f	–	72	41
	Tripoli						1013·0	*	59	-4	S	1	bc	–	71	52
	Algiers	1009·9	57	NE	2	o	1011·5	+2	57	-2	NSW	2	r	–	66	55
Sweden.	Hernösand ...	1007·4	28	–	o	f	1010·1	*	27	-3	*	o	s	*	*	*
	Stockholm ...	1006·7	34	SE	2	b	1007·4	*	23	-5	E	2	f	*	*	*
	Wisby	1006·0	32	ENE	2	o	1005·3	*	30	-4	ENE	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 ...	1021·0	27	+2	–	o	bc
Reykjavik	1021·1	21	o	–	o	c
Vestmanna						
Seydisfjord	1018·9	21	+2	NNW	4	c
Thorshavn	1012·8	36	o	NE	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	–	–	45	26	o bc.b	–	1·7
	Banff	Trace	–	42	33	c.bc	bc.c	3·7
	Montrose	2	–	39	32	o	o	0·0
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	–	1	39	21	bc.c	bc.c.os	3·0
	Skegness	1	–	43	21	o.bc	bc	
Eng. N.W.	Morecambe							
	Southport	3	–	41	13	b.bc.c	bc.c.o	4·0
Midlands.	Leamington Spa							
	Malvern	2	1	42	29	bc	bctlm	1·5
	Ross-on-Wye	1	1	41	29	bcp	c.bc	2·9
Wales.	Rhyl	–	–	49	21	bc	bcc	8·3
	Colwyn Bay...	*	*	40	24	bc	bc.o	9·2
	Llandudno	*	*	41	26	b	b	9·0
	Aberystwyth	*	*	38	28	cs.b	c.o	3·5
	Tenby							
England. E.	Lowestoft	14	Trace	43	33	bc.c	c.cphr	4·4
	Felixstowe	1	Trace	44	31	or.bc	bc.oq	4·2
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate	3	Trace	44	32	c.bc.b	bc.c.or	4·0
	Ramsgate							
	Hastings	3	1	45	31	os.bc.b	bc.os	3·4
	Eastbourne	3	1	45	32	bcf	ohs	3·7
	Seaford	*	*					
	Brighton	4	1	43	32	bc	o.cp	5·2
	Worthing	1	1	42	31	bcr.bc	bcr.b	5·0
	Littlehampton	5	1	40	30	bc.o	bc	5·3
	Bognor	*	*					
	Bournemouth	2	1	42	28	cs.c	c	4·7
England. S.W.	Weymouth...	*	*	44	33	eps.bc	bcpz	1·4
	Torquay	1	Trace	43	32	c	c.bc.b	5·3
	Paignton	*	*					
	Penzance	5	Trace	43	30	eps	bc	6·0
	Newquay	2	1	41	30	bhs.b	bsh.b	3·9
	Bude	4	2	41	33	sp	sp	2·8
	Ilfracombe	2	2	41	?	bcs.s	bcs.s	5·1
	Weston-s-Mare	1	1	44	32	b.bc.c	bcs.c	3·5

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

4–5 April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5·24	11·56	6·29
	5·21	11·56	6·31
Greenwich	5·32	12·3	6·38
	5·30	12·3	6·37
Wick	5·35	12·15	6·56
	5·32	12·15	6·59
Valencia	6·13	12·44	7·16
	6·11	12·44	7·17

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many places. Snow occured very generally, and the duration of bright sunshine showed great variation.

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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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, 1917. No. 95 | Thursday 5th April

	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 ...	996·9	53	N	2	c	998·3	0	30	-1	NNW	2	–	bc	2	0.2	36	30	bc	bc	bcx	*
	Deerness (Orkney)	999·3	52	WNW	4	cps	1000·0	*	31	-3	W	1	–	b	1	1	38	28	bc.c.ops	o.cps	cps.bc.b	3·0
	Stornoway ...	1001·6	36	N	3	cps	1002·6	-1	34	+1	NW	4	–	bc	4	3	42	28	bc.cps	cps	b.bcps	3·7
	Castlebay (Barra Isd.)	1001·9	43	ENE	2	rs	1005·8	+2	35	0	N	2	N	b	2	5	42	33	bc.o	o rS	rsbc.b	2·7
	Glasgow ...	1001·8	40	WSW	2	c	1002·5	+5	33	+3	WNW	1	W	c	*	5	43	29	b.bc.c	bc.c	orsp.o	8·2
	Eskdalemuir ...	1002·9	35	SW	2	bc	1001·8	+2	34	+6	NW	3	–	oS	*	3	40	24	bc.b	b.bc	bc-sl.o	8·9
	Malin Head ...	1001·4	44	WNW	2	bc	1003·2	+3	35	-3	ENE	5	SW	c	5	9	45	35	bc	bc	om	8·0
	Blacksod Point	1001·4	40	VV	3	cx	1002·3	?	36	+2	NE	4	–	omg	4	7	44	34	bc	bc	omd.or	*
	Valencia ...	1001·8	43	W	3	o	1004·1	0	41	+3	–	0	SW	c	3	5	46	37	c.bc.b	b.bc.o	o.op	7·5
	Roche's Point	1001·3	43	W	2	c	1005·3	*	41	+4	–	0	–	r	2	1	48	36	bc	bcph.c	c.od	*
	Birr Castle ...	1005·1	44	W	1	c	1003·4	*	39	+8	S	1	–	0	*	–	45	31	c	c	o	8·5
	Donaghadee ...	1003·5	44	WNW	2	cd	1003·0	+1	35	-2	NW	3	–	omrs	3	1	46	35	bcx	bcx	c.omrs	*
	Liverpool (Bidston)	1004·8	39	WNW	3	b	1005·1	-0	34	+1	SSW	2	–	b	2	–	42	32	b	b	bx	9·7
	Holyhead ...	1005·0	42	SW	3	b	1004·2	0	40	+2	SW	4	SW	bcg	3	–	45	37	c.bc.b	b.bcb	bc.b	9·0
	Pembroke (St. Ann's)	1006·6	42	WNW	2	b	1006·4	+2	41	+6	SW	3	–	or	3	0·4	45	34	b.bc.cp	bc.b	b.bc.c.o	8·9
	Scilly (St. Mary's)	1007·9	43	N	3	bc	1009·3	-1	40	0	WSW	3	SW	c	4	1	48	38	bc	c.bc	bc.bc	10·3
	Falmouth ...	1007·0	42	N	3	bx	1009·4	+1	36	+5	SW	2	–	o	*	–	47	29	bx.o.bc	b.	b.bc.o	10·1
	Jersey (St. Aubin)	1004·8	42	NW	2	b	1011·6	*	36	-3	N	2	–	bf	1	–	44	31	o.c	c.b	bfwxf	5·3
	Portland Bill ...	1004·6	42	WNW	3	c	1009·1	+1	40	+6	WSW	2	–	bx	2	–	43	33	c.bc	c.bc	c.bc.b	*
	Dungeness ...	1003·3	40	WSW	3	bc	1005·0	+1	38	+5	SSW	2	SW	c	1	–	45	28	bc	bc	bc.bcx	*
	Dover	1005·5	38	–	0	bc	1009·0	+2	35	+3	–	0	–	b	0	0·3	44	29	bc.c.bc	bcm	bmx	5·6
	Wick	1000·1	34	W	2	c	1000·6	+1	26	-6	NW	1	–	bc	2	2	38	25	bcps.o	omps.c	cmpsh	*
	Nairn	1000·6	36	–	0	cg	1001·8	*	26	-5	W	1	–	bcg	2	2	42	24	spc.bc	bc.cg.	su.ox	5·5
	Aberdeen	1000·7	39	WNW	1	o	1001·3	+1	28	-6	WNW	2	–	b	2	2	41	27	bc	bc.c.o	oc.o.b	3·9
	Leith	1001·1	39	SW	1	c	1001·4	+2	35	+1	NNE	2	N	b	3	5	43	33	bc.c.b	bc.c.o.c	c.o1s.c	*
	Tynemouth ...	1002·3	39	WNW	1	bcm	1000·1	-1	37	-1	SW	3	–	om	3	–	42	33	bcm	bc	cm	*
	Spurn Head ...	1003·5	39	N	3	bc	1005·5	0	34	-2	WSW	4	–	bmx	4	–	42	31	bc	bc	bc	4·5
	Yarmouth ...	1002·2	39	NE	2	bc	1004·6	+3	33	+1	SW	1	–	bcmx	1	–	42	31	bcm.o	o.bcm	bcmx	3·7
	Clacton-on-Sea	1004·0	40	SSW	1	c	1008·3	+2	35	0	SSW	2	NW	c	1	–	42	33	bc	bc.c	c.bcmx	6·3
	Nottingham ...	1004·0	40	NNE	2	c	1006·6	*	30	-4	SW	1	–	bxm	*	–	45	28	c.o	co	cm	4·8
	Benson (Oxon.) ...	1004·4	37	N	2	c	1004·6	+2	31	-3	–	0	–	bx	*	–	45	26	om	bc	b.	*
	Sth Farnborough	1003·8	42	NW	1	b	1008·3	+2	31	-3	WNW	1	–	bmx	*	–	45	27	ocm	c.o.b	bc.bmx	3·0
	London (Kew Obsy.)	1004·2	43	–	0	bm	1008·8	+3	32	-2	SW	2		bmx	*	Trace	45	31	omd.omrc.o	o.bc.c.bm	bc.omx	4·0
NORTHERN EUROPE.	Spitsbergen ...	1010·3	-31	S	1	b	1010·1	0	-35	0	SE	2	*	b	*	*	-26	-46				
	Vardö	1016·0	16	–	0	0	1011·9	-2	16	-2	–	0	–	c	3	*	19	12				
	Bodö	1005·6	30	SE	4	bc	1004·3	?	32	+13	SE	4	–	b	2	–	34	24				
	Christiansund ...	999·3	34	–	0	b	999·8	+1	34	+5	–	0	–	b	3	–	41	32				
	Skudesnaes ...	996·8	34	–	0	o	1000·3	+2	36	+2	SE	3	–	o	2	1	41	30				
	Færder (X'tania Fjord)	1001·3	34	SE	4	m	1001·9	+4	32	-2	ENE	2	–	o	1	5	36	30				
	The Scaw (Skagen)	999·9	36	SE	3	o	1002·1	+5	36	o	W	2	SW	bc	3	–	34	32				
	Blaavands Huk	999·0	34	W	1	s	1006·0	+5	34	o	WSW	1	–	b	2	2	34	34				
	Copenhagen ...	1002·6	34	S	3	r	1004·4	+6	36	+2	W	3	–	c	*	7	37	32				
	Bornholm ...	1004·6	36	SSE	3	m	1004·8	+6	32	+2	WSW	6	–	m	1	5	41	28				
FRANCE, &c.	The Helder ...	1002·6	39	WSW	2	c	1008·6	+3	36	o	S	2	–	b	o	–	43	32				
	C. Gris Nez ...	1004·3	34	WSW	2	b	1008·6	+2	36	-1	SSW	1	*	b	1	—	43	34				
	La Hève							*					*									
	Brest (St. Mathieu)	1004·4	45	N	3	b	1009·0	+2	42	+6	WNW	3	*	bc	2	–	48	36				
	Rochefort (Ile d'Aix)	1004·7	46	NW	3	c	1011·4	+4	43	-2	NNE	3	*	c	*	Trace	54	39				
	Biarritz												*									
	Paris	1004·8	41	SW	2	r	1009·6	+4	36	-3	N	2	–	o	*	5	50	36				
	Belfort	1009·6	46	WSW	6	b	1012·2	*	40	+4	W	4	*	r	*	1	53	36				
	Lyons	1009·1	48	S	2	o	1009·1	*	46	+14	–	0	*	o	*	—	56	32				
	Nice	1014·9	45	–	0	c	1010·4	-2	43	0	E	4	*	o	4	–	59	34				
	Perpignan ...	1006·6	54	S	4	o	1005·9	-1	46	+9	SE	2	SW	r	*	9	64	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1013·1	*	SSE	5	r	1004·6	-4	59	o	SSW	6	*	r	5	28	59	57				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1014·6	+1	64	+3	W	1	—	b	0	—	70	46				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

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)	68	72	3·3	44	29	25	–	c	c. b.	o. bc
CITY (Bunhill Row)	*	*	3·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	65	78	3·2	45	30	26	–	bc	bc	bc.o.bm
CAMDEN SQ (British Rainfall) ...	62	71	6·0	47	30	26	–	C	bc	*
HAMPSTEAD (Reservoir)	*	74	6·6	42	29	19	–	bc	bc	bcx
S. KENSINGTON (Museum Grounds)	*	73	4·0	46	33	25	Trace	bc.g	bc.bcm	bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

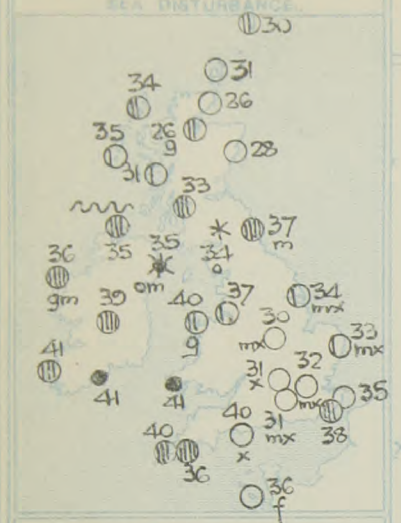
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.

Temperatures at Greenwich and Camden Square are from Glaisher screens.

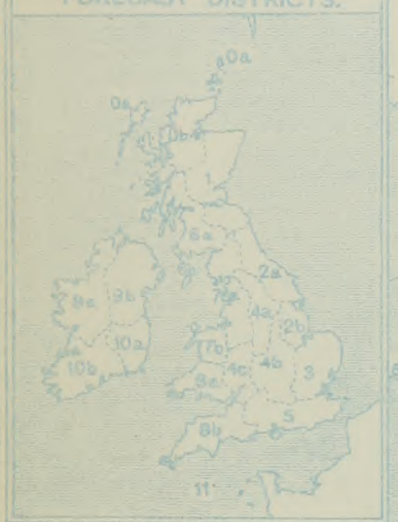
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

THE MORNING OF · THURSDAY, 5TH APRIL, 1917.

TEMPERATURE WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.



GENERAL INFERENCE.

The shallow depression in Ireland is likely to cause showers of rain, snow or sleet in many western and northern localities.

EXPLANATION.

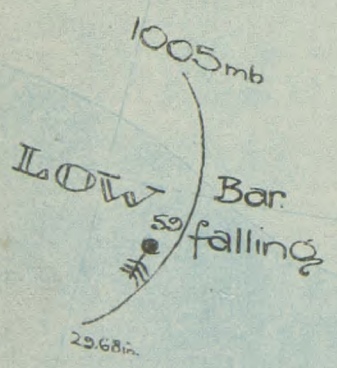
BAROMETER.—Isobars are drawn for intervals of five millibars.

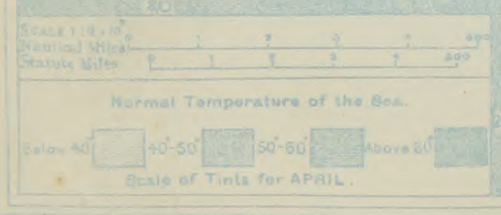
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

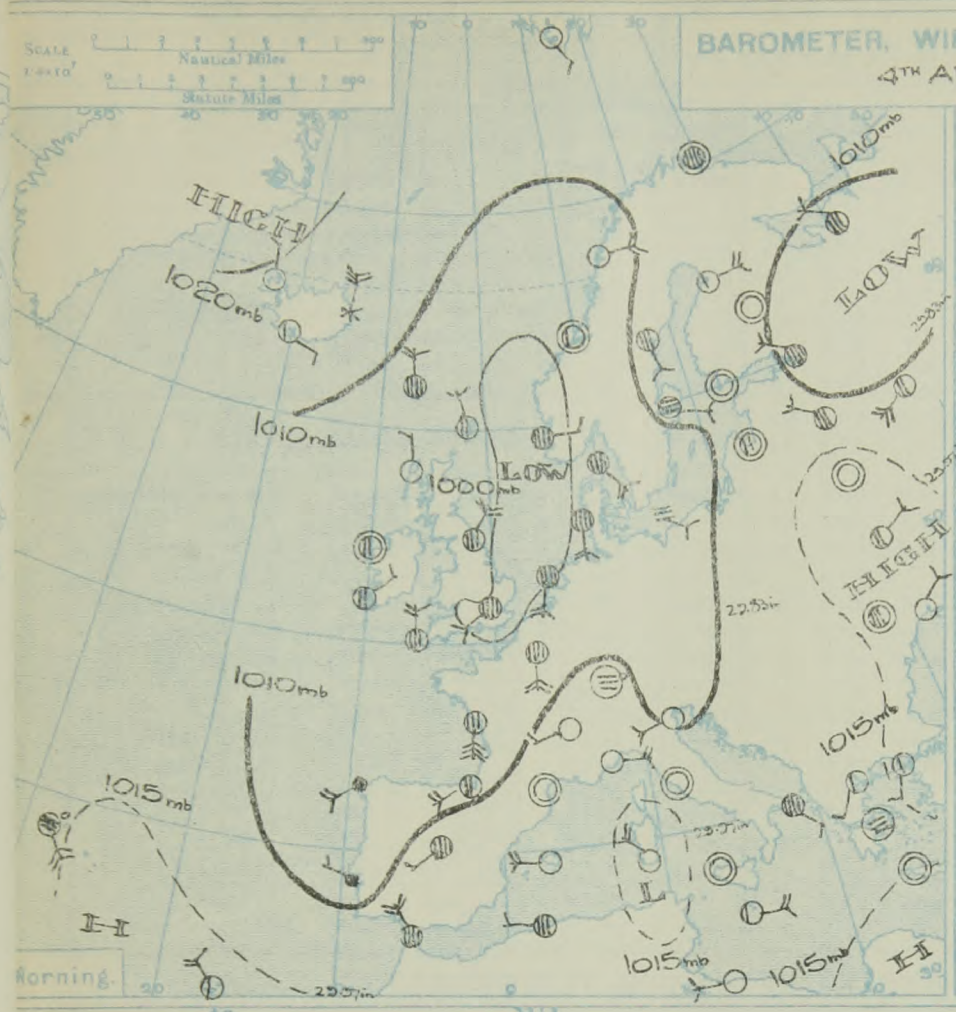


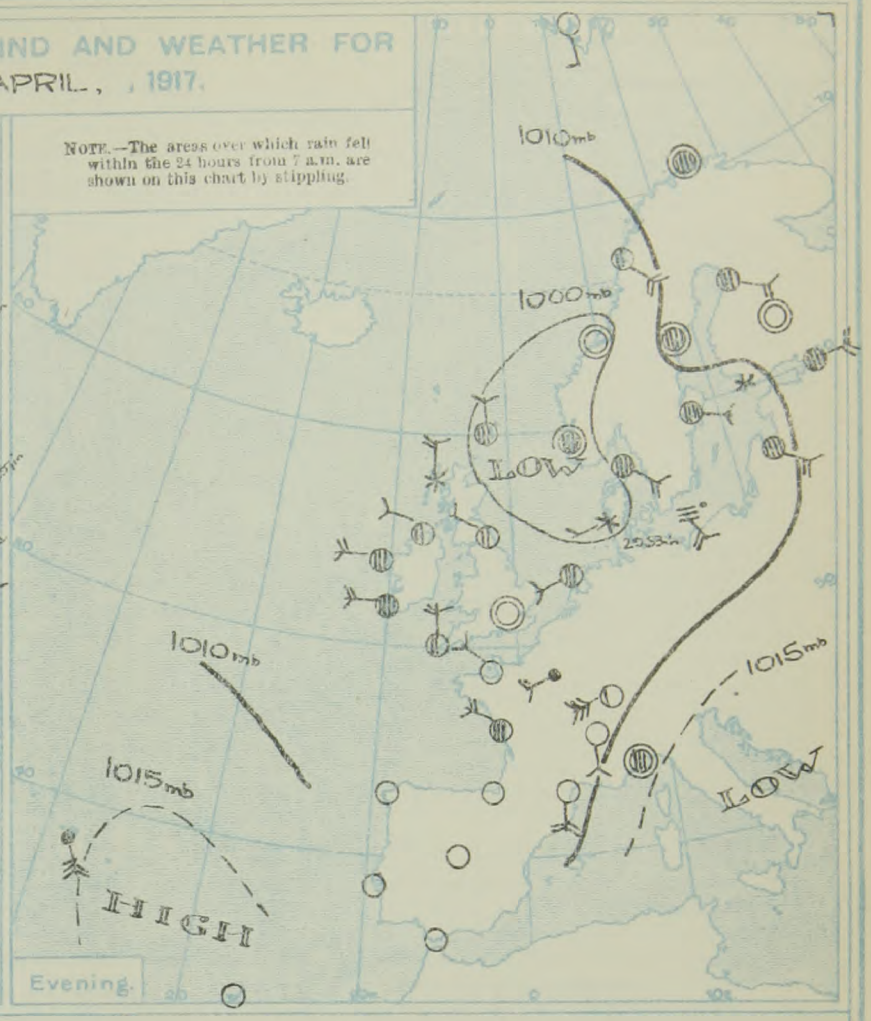


HIGH
1010mb
1005mb
1000mb
LOW
Barometer
rising
generally
falling
29.83in.
29.68in.
29.53in.
HIGH
1010mb
Barometer
1010mb

BAROMETER, WIND AND WEATHER FOR 4TH APRIL, , 1917.

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





Forecast Noon Thursday to Noon Friday.

0{a b} 1 } North-West or North winds, light; changeable, some wintery precipitation; cold.

2{a b} 3 4{a b c} } West and South-West winds, light; Variable sky; rain, sleet or snow showers locally.

5 { South-West winds, light; Fair generally. Rather less cold.

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

7{a b} 8{a b} { Variable to North winds, light; Changeable, some rain, sleet or snow. Cold. South-West and West winds, light, Variable cloud, some rain locally, Rather less cold.

9{a b} Same as Nos. 0-1

10{a b} Same as No. 8

11 { West and South-West winds, light; Sea slight Cloudy or fair.

FURTHER OUTLOOK.

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

Issue No. 20,223

DAILY WEATHER REPORT.

Thursday 5th April 1917.

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 ...						1008·0	−4	14	−18	NW	2	c	—	*	5
	Gorki	1006·0	36			0	1016·6	+8	34	0	--	0	b	—	*	34
	Velieki Luki ...	—	—				1015·5	*	36	+2	NW	2	c	—	*	34
	Hangö	1006·9	32	—	0	0	1011·5	+1	23	−9	—	0	0	—	*	21
	Riga						1014·1	+2	28	−9	—	0	bc	8	*	26
	Petrograd ...	999·5	34	NE	4	0	1009·0	+10	27	−3	NW	2	0	16	39	27
	Moscow	1006·1	36	SE	2	f	1010·9	+5	37	+3	WSW	4	bc	—	*	34
	Kiev	1013·2	43	NNW	3	b	1018·9	+3	36	−3	ENE	2	bc	—	*	34
	Kharkov ...	1011·1	32	—	0	b	1016·7	+4	37	−2	N	2	0	—	*	32
	Kishinev ...	1010·4	39	NW	1	b	1015·3	+2	48	+7	—	0	c	—	*	34
	Elisabetgrad ...	1012·2	34	WNW	2	b	1018·4	+4	36	−3	NNE	1	b	—	*	34
	Nicolaiev ...	1011·9	45	SW	2	f	1016·4	*	45	+2	NE	3	b	—	*	39
	Odessa	1011·9	46	SW	1	b	1018·6	+3	43	−2	ENE	2	b	—	*	37
	Tarkhankout...						1016·7	*	43		—	0	f	—	*	41
	Soukhoum ...	1008·7	54	ESE	4	0	1014·8	+3	54		ESE	3	0	—	*	50
Mediterranean.	Venice	1005·7	50	SSW	1	c	1009·1	*	46	−4	WSW	2	b	—	58	45
	Pesaro	1007·7	55	S	1	bc	1012·6	*	50	0	ESE	2	b	—	64	46
	Rome	1010·6	55	SW	1	0	1013·7	*	54	+2	—	0	b	—	63	48
	Viesti	1009·4	59	—	0	c	1011·9	*	61	+2	? W	? 3	c	—	64	54
	Brindisi	1011·0	57	—	0	b	1012·6	*	58	+8	SE	1	0	—	64	50
	Cagliari						1015·0	*	59	+2	NW	3	b	—	64	48
	Palermo	1009·4	68	ESE	2	c	1014·3	*	61	+7	—	0	b	—	81	48
	Tripoli						1010·7	*	61	+2	W	2	b	—	79	57
	Algiers	1013·9	57	WNW	2	c	1013·7	0	56	−1	W	1	c	Trace	64	50
Sweden.	Hernösand ...	1010·7	23	NE	4	3	1012·4	*	23	−4	SSE	2	c	*	*	*
	Stockholm ...	1008·7	32	ESE	2	b	1011·3	*	25	+2	ESE	2	f	*	*	*
	Wisby	1007·4	32	NNW	2	0	1008·0	*	30	0	E	2	3	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Morning. Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	‡			
Isafjord ...	1019·0	25	−2	N	1	b
Reykjavik	1012·3	28	+7	ESE	1	b
Vestmanna						
Seydisfjord	1015·5	19	−2	N	b	3
Thorshavn	1004·3	29	−6	N	3	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	—	—	43	27	b bc. o		5·8
	Banff	Trace	3	40	34	cs. c	c. os	5·1
	Montrose	Trace	—	44	32	b	b	4·3
	Carnoustie	*	*					
	St. Andrews...	—	—	45	31			8·2
Eng. N.E.	Harrogate	Trace	—	39	28	c. bc	bc. bc	4·5
	Skegness	2	—	41	31	o. bc	bc	4·3
Eng. N.W.	Morecambe							
	Southport	—	—	42	31	bc. b	b	8·8
Midlands.	Leamington Spa							
	Malvern	Trace		43	32	bc	bc	4·6
	Ross-on-Wye	—	Trace	48	29	bep	c. bc	5·4
Wales.	Rhyl	—	—	41	30	bc	bc	10·1
	Colwyn Bay...	*	*	42	36	b	b. bc	8·0
	Llandudno	*	*	43	36	b. b	b b	9·2
	Aberystwyth	*	*	42	26	c. bc	b. bc	11·0
	Tenby							

	STATIONS.	Rainfall Night 16h-9h.	Rainfall Day 9h-16h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	1	—	42	32	o c	bc	6·5
	Felixstowe	Trace	—	43	32	bc	bcm	4·7
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate	5	—	44	31	bc. cb	b. bc	7·2
	Ramsgate							
	Hastings	3	—	42	31	ohs. c	bc	4·2
	Eastbourne	1	—	44	32	bc. o	o. bc	1·2
	Seaford	*	*	46	31	c	c. o	2·9
	Brighton	Trace	—	45	30	c	c	3·8
	Worthing	—	—	45	30	c	—	4·4
	Littlehampton	1	—	43	30	bc.	bc. o	3·1
	Bognor	*	*	44	31	bq	q	4·6
	Bournemouth	1	—	44	30	bc	bc	6·6
England, S.W.	Weymouth...	*	*	46	31	beq	beq	4·8
	Torquay	—	—	46	29	b.	b bc	9·2
	Paignton	*	*					
	Penzance	—	—	49	32	bc	bc	9·4
	Newquay	—	1	43	28	b	bh	8·7
	Bude	1	—	45	29	b	b	9·7
	Ilfracombe	—	—	45	32	b	b	9·5
	Weston-s-Mare	1	—	46	32	bc. c. b	b. bc	6·5

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

5-6 April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	5·21	11 56	6 31
	5·18	11 56	6 33
Greenwich	5·30	12 3	6·37
	5·27	12 3	6·39
Wick	5 32	12 15	6 59
	5·29	12 15	7·1
Valencia	6 11	12·44	7·17
	6 8	12·44	7·19

NOTES ON YESTERDAY'S WEATHER.

Rain and snow showers fell in the North, but generally there was much sunshine. Temperature remained below 45° in most 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, 1917. No. 96.

Friday 6th April.

	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.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
British Islands.	Lerwick ...	1000·9	36	N	3	bc	1003·7	0	35	+5	N	1	-	bc	1	0·4	40	30	bc	bc	bcx	*
	Deerness (Orkney)	1002·7	34	N	5	c	1005·7	*	34	+3	NW	1	NW	bc	1	1	39	31	b.bc	bcp.c	cpsbc	9·6
	Stornoway ...	1007·2	39	NNE	4	bc	1007·6	-1	34	0	W	3	-	o	3	2	41	31	bcpsq	bcpsq	bc.ops	10·2
	Castlebay (Barra Isd.)	1009·6	41	NNW	4	b	1010·8	0	37	+2	-	0	-	o	1	0·3	42	35	b.o.c	c.b	bc.op.o	11·2
	Glasgow ...	1005·5	39	N	1	b	1010·3	+1	30	-3	W	1	N	bcm	*	-	43	27	c.bc.b	b	b.bcmo	9·2
	Eskdalemuir ...	1006·2	26	-	0	b	1011·7	+2	15	-19	-	0	-	b	*	4	37	12	os	os.bc.b	b	3·4
	Malin Head ...	1006·8	39	NNW	5	bcq	1010·5	0	39	+4	NNW	3	N	bv	2	-	39	35	bcq	bcq ps	bcv	10·2
	Blacksod Point	1010·1	40	NE	3	bc	1014·6	?	37	+1	NW	2	NW	bcph	2	1	41	34	bc	bc	bc	*
	Valencia ...	1007·0	40	ENE	5	c	1015·9	+3	35	-6	-	0	N	c	2	0·3	48	34	c.cp.b	b.bc.c	c.b.bc	3·9
	Roche's Point	1006·6	40	N	3	p	1014·2	*	35	-6	NNW	3	NW	c	2	9	49	33	odr	ogh.pr	or.bx.c	*
	Birr Castle ...	1007·8	39	NE	1	c	1014·3	*	27	-12	S	1	-	c	*	3	46	25	oo.o	oo.r.c	cx	0·8
	Donaghadee ...	1006·1	40	N	4	bc	1011·3	+1	35	0	W	3	NW	bc	3	3	41	32	os.bcm	bc	bcq	*
	Liverpool (Bidston)	1005·0	35	NW	3	r	1010·6	+2	32	-5	NNW	1	-	b	1	1	46	31	bc	c op	o.bx	2·6
	Holyhead ...	1006·0	34	ENE	5	osm	1011·1	+3	38	-2	N	4	N	bc	3	4	46	36	bc.c	c.orsm	bx.bc	2·6
	Pembroke (St. Ann's)	1006·3	44	SW	3	o	1001·6	+4	35	-6	NNE	1	N	bc	2	3	45	34	op.cp	op.c	bc	1·7
	Scilly (St. Mary's)	1008·7	47	WSW	4	cp	1010·6	+2	40	0	NE	4	N	cp	4	5	50	38	bc.cp	c.bc.c	cq.cp	5·1
	Falmouth ...	1008·6	46	SW	4	b	1010·0	+4	37	+1	N	3	W	c	*	8	50	35	b.op.bc	cq.op.b	cp.org	5·7
	Jersey (St. Aubin)	1012·1	47	SW	3	b	1009·9	*	44	+8	SW	3	-	o	3	-	50	35	fb	b	bc.o	10·7
	Portland Bill ...	1009·0	43	WSW	4	cp	1007·8	+2	42	+2	W	4	W	c	3	1	45	40	bc.c	bcp	bc.cp	*
	Dungeness ...	1009·8	42	WSW	4	bc	1007·2	-1	42	+4	SW	4	-	o	4	-	46	37	b	bc	b.bc.o	*
	Dover	1010·2	42	SSW	5	bc	1008·2	-4	42	+7	SW	5	SW	o	4	-	42	35	b	bc	or	9·8
	Wick	1004·2	33	NNW	3	s	1006·5	0	30	+4	W	1	-	bc	2	1	40	26	bc.c	cmps	bcmph	*
	Nairn	1004·9	38	N	1	bc	1008·0	*	33	+7	NNW	2	-	bc	2	2	40	25	bcsl4o	bc.c	bcx	6·9
	Aberdeen	1004·4	36	NW	3	b	1007·1	+1	33	+5	WNW	3	-	b	2	-	39	28	bc.c	c.bc.b	b	9·0
	Leith	1004·8	39	N	2	b	1008·9	+1	31	-4	W	1	NW	b	2	-	42	29	c.bc.cb	b	bc.ogb	*
	Tynemouth ...	1004·5	32	N	1	om	1009·2	+2	27	-10	WNW	3	-	bm	3	6	40	24	omds	oms	bm	*
	Spurn Head ...	1004·5	44	SW	4	c	1007·9	+2	32	-2	N	4	-	bx	4	3	48	31	bc	c	c	0·5
	Yarmouth ...	1007·1	46	SW	2	bc	1008·1	+2	35	+2	NNE	3	-	omd	3	2	49	31	bcm	bcm	bcm.od	9·1
	Clacton-on-Sea	1008·8	44	SSW	3	bc	1008·6	+1	36	+1	NNW	3	-	r	2	1	48	35	c bc.cm	c.bc	bc.c.od	8·6
	Nottingham ...	1005·1	43	SW	4	o	1010·2	*	33	+3	N	1	-	b	*	2	47	30	bcp.o	o	op.rs	4·3
	Benson (Oxon.) ...	1007·5	43	SSW	4	o	1009·5	+3	33	+2	N	3	-	o	*	3	48	30	b.bc	c	opr.s	*
	Sth Farnborough	1008·2	43	SW	4	r	1008·7	+3	33	+2	NNE	2	-	s	*	2	50	31	b.bc	bc.or	or.ors	7·3
	London (Kew Obsy.)	1009·0	44	SW	4	ob	1009·3	+3	34	+2	NNE	3	-	osm	*	3	48	32	bmx.bc.b	b.c.op.o.ob	opdoms	7·3
Northern Europe.	Spitsbergen ...	1009·5	-26	-	0	o	1008·4	0	-24	+11	-	0	*	m	*	*	-24	-36				
	Vardö	1008·2	14	-	0	b	1003·8	-3	21	+5	WSW	3	-	o	3	*	21	12				
	Bodö	1004·0	27	E	2	b	1001·5	-3	28	-4	E	4	-	c	2	-	32	21				
	Christiansund ...	1003·1	37	-	0	b	1001·7	0	36	-1	-	0	-	b	2	-	39	32				
	Skudesnaes ...	1000·2	36	SSW	6	c	1001·5	-1	34	-2	SE	3	-	o	3	3	36	32				
	Færder (X'lania Fjord)	1008·0	36	SSE	3	o	1006·9	0	36	+4	SSW	5	-	o	3	-	36	32				
	The Scaw (Skagen)	1008·2	36	ENE	1	o	1007·9	-1	36	0	S	3	-	o	3	-	43	34				
	Blaavands Huk	1009·9	34	SSW	3	f	1006·1	-2	36	+2	S	3	-	o	4	-	41	30				
	Copenhagen ...	1011·8	37	SW	2	c	1011·3	+1	36	0	E	1	-	o	*	2	43	32				
	Bornholm ...	1012·6	32	SSW	2	m	1009·0	+1	32	0	NNW	2	-	m	o	3	36	30				
France, &c.	The Helder ...	1009·6	39	S	3	b	1006·9	0	39	+3	SSW	4	-	o	2	-	43	34				
	C. Gris Nez ...	1011·0	41	SW	4	b	1008·8	-1	39	+3	SSW	5	*	o	4	-	46	39				
	La Hève	1010·7	43	WSW	2	m	1011·8	*	39	+3	SSW	4	*	bc	3	-	45	37				
	Brest (St. Mathieu)	1012·4	48	SW	4	bc	1010·7	-1	46	+4	WSW	4	*	c	3	6	48	42				
	Rochefort (Ile d'Aix)	1015·9	46	NW	5	bc	1015·9	-2	46	+3	WSW	3	*	o	*	-	50	39				
	Biarritz	1017·3	48	N	3	b	1018·3	-1	45		S	1	*	bc	2	-	52	41				
	Paris	1012·8	45	SW	1	b	1014·3	+1	36	0	S	2	-	b	*	-	50	30				
	Belfort	1011·4	45	W	5	c	1015·8	*	37	-3	E	2	*	o	*	5	49	37				
	Lyons	1011·0	46	NNW	2	c	1014·9	*	39	-7	NW	2	*	bc	*	-	58	37				
	Nice	1008·4	43	-	0	o	1006·3	0	48	+5	SW	1	*	bc	3	3	50	39				
	Perpignan ...	1011·3	41	NW	6	r	1017·1	+4	45	-1	NW	3	-	o	*	63	50	32				
	Sanguinaire ...	*	48	W	1	o	*	*	50	0	SE	1	*	m	6	-	62	48				
Southern Stations.	Corunna	1019·9	52	WNW	6	bc	1017·5	-2	48	0	SSW	5	-	o	3	-	52	46				
	Madrid														*							
	Lisbon	1020·7	54	WNW	3	o	1021·2	-1	45	-1	-	0	-	b	5	-	55	45				
	Azores (Horta) ...	1008·2	*	SSW	7	f	1009·9	+3	59	0	S	5	*	c	3	4	63	59				
	Madeira	1020·6	59	WSW	2	o	1020·7	0	55	+2	SW	4	-	b	3	8	59	55				
	Gibraltar	1022·3	41	NW	4	b	1022·3	*	34	-3	NW	2	*	c	2	8	61	47				
	Malta	*	*	*	*	*	1011·8	+1	59		NW	7	-	b	5	-	66	52				
	Limassol	*	*	*	*	*	1011·8	0	63	-1	W	1	-	b	2	-	73	46				
	Alexandria ...	1016·3	63	NNE	3	bc	1015·9	0	66	+2	NW	1	NW	b	1	-	73	59				
	Cairo (Helwan) ...	1014·0	68	N	3	b	1015·1	+1	59	-2	NE	2	-	b	*	-	77	54				

RAINFALL.

Equivalents of Millimetres in Inches.

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

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)	54	99	8·4	51	33	32	6	b	bc.c o	o.ors
CITY (Bunhill Row)	*	*	6·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	58	96	2·7	51	34	32	7	bc	bc	obs.
CAMDEN SQ. (British Rainfall) ..	54	49	6·5	51	33	21	8	bc	bc	*
HAMPSTEAD (Reservoir)	*	89	1·3	49	30	26	10	bm	bc.or	orf
S. KENSINGTON (Museum Grounds)	*	73	7·1	50	32	25	7	o	c.op	b.bc.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

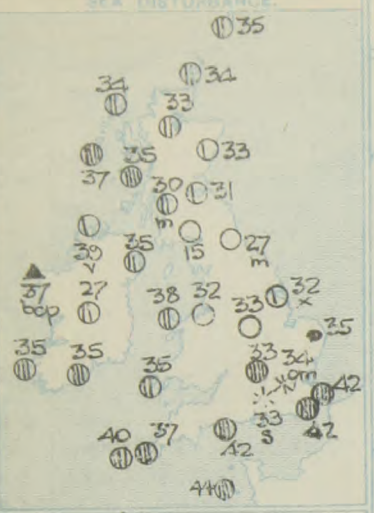
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1453	30·8	70

Temperatures at Greenwich and Camden Square are from Glaisher screens.

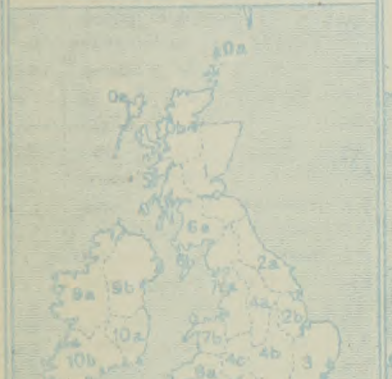
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 6TH APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.



GENERAL INFERENCE

There are some indications of the approach of another depression to the Hebrides.

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 ≈≈≈

1005mb 29.68in. 1010mb HIGH LOW 29.83in. 1010mb Barometer falling again 1010mb Barometer rising 1015mb 1010mb LOW 29.83in. 1020mb 29.97in. HIGH 30.12in. 1005mb LOW 29.83in. 1010mb Barometer falling 1010mb LOW 1005mb Barometer rising 30.12in.

Scale 1:2·10⁶ — Nautical Miles — Statute Miles

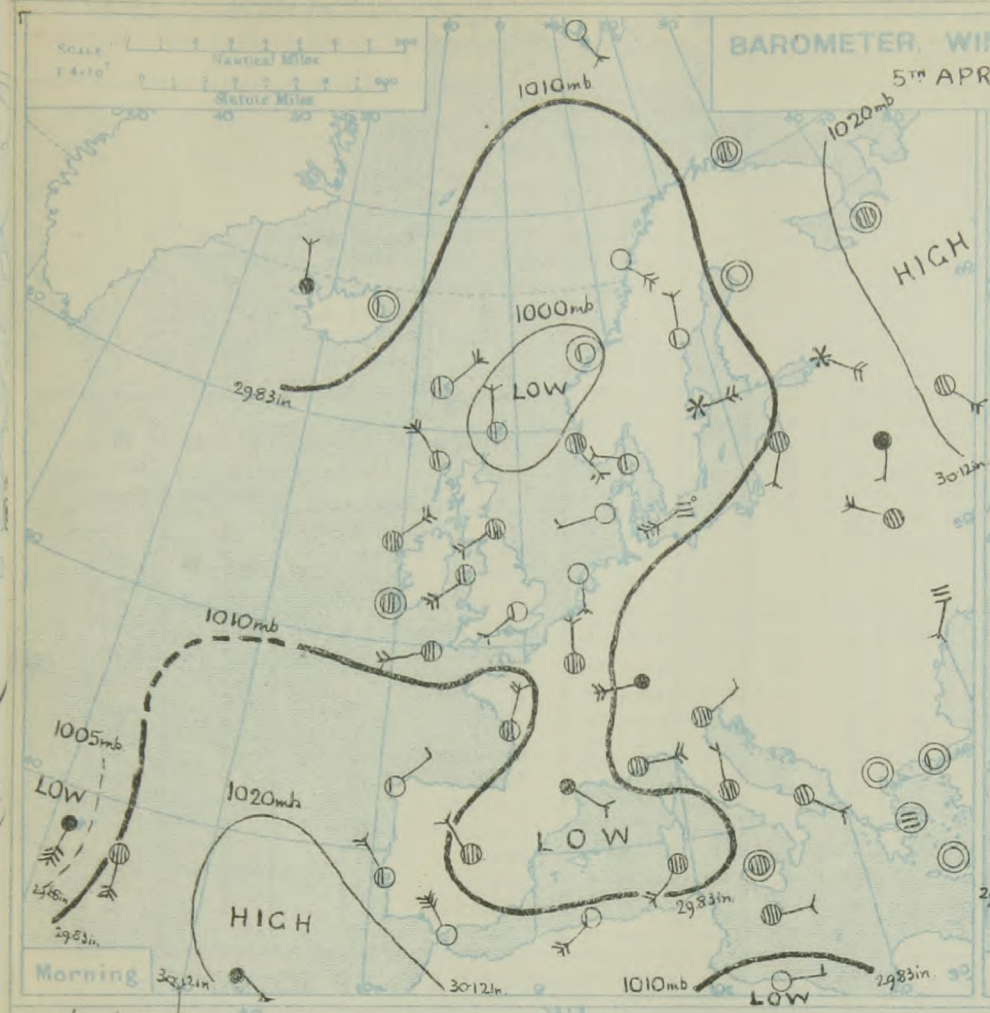
Normal Temperature of the Sea

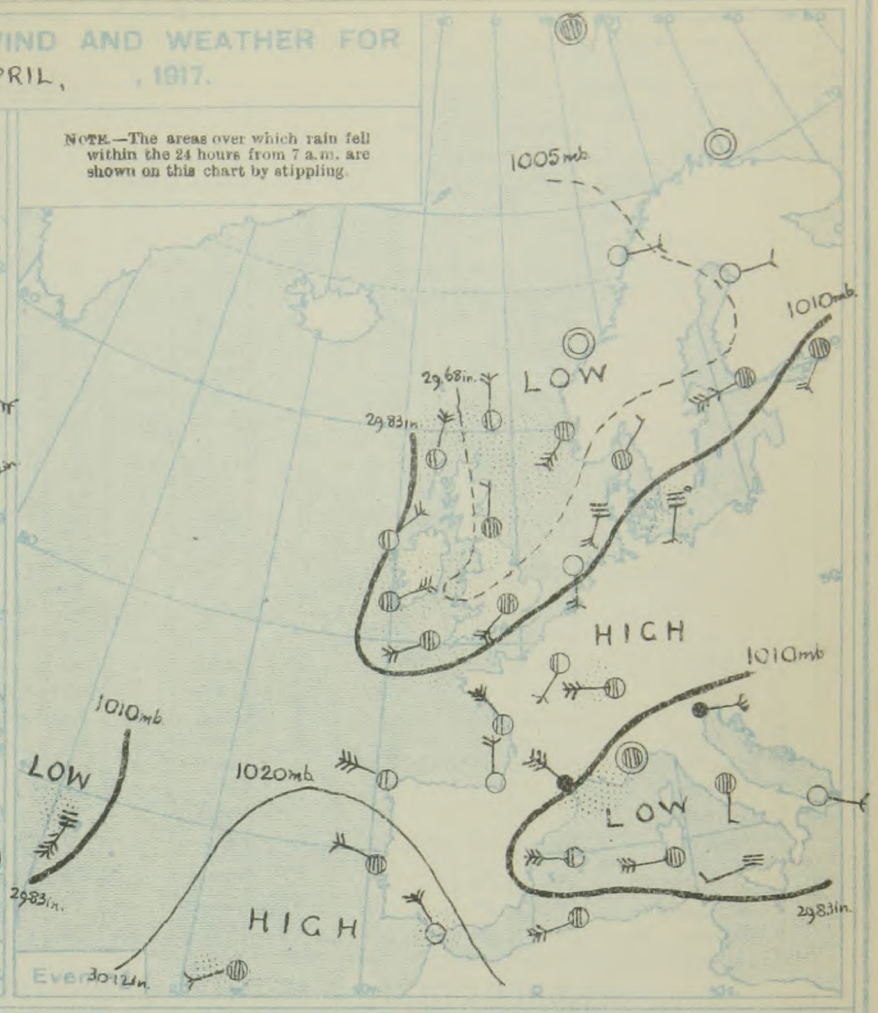
Below 40° | 40°-50° | 50°-60° | Above 60°

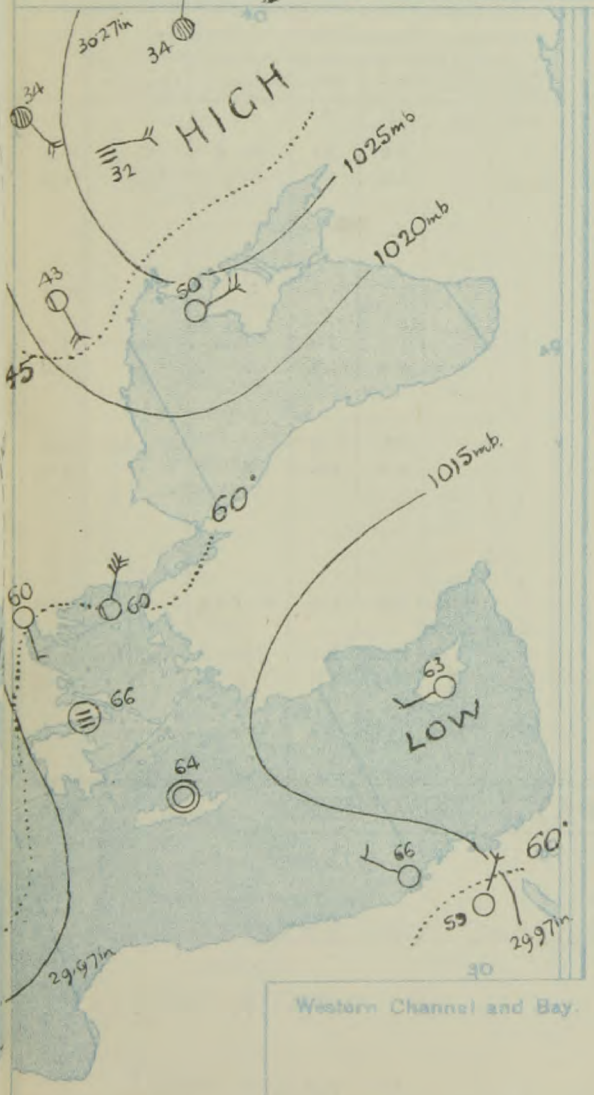
Scale of Tints for APRIL

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

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







FORECASTS NOON FRIDAY TO NOON SATURDAY.

0 a, b — North-Westerly winds, backing South-West or South, light to moderate, fair then some sleet or snow; cold.

1, 2 a, b, 3, 4 a, b, c — Northerly to North Easterly or Westerly winds, moderate or light; fair generally but local showers of sleet or snow; cold.

5 — North-Westerly and North-Easterly winds, moderate light; some rain or sleet, then fair; cold.

6 a, b — Same as No. 0.

7 a, b, 8 a, b — Same as Nos. 1 - 4.

9 a, b, 10 a, b

11 — North-Easterly and Northerly winds, moderate or light; sea slight or moderate; fair generally, some showers.

FURTHER OUTLOOK.

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

Issue No. 20,224

DAILY WEATHER REPORT.

Friday, 6th APRIL, 1917.

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 ...						1023·1	+3	3	−11	−	0	0	−	*	−2
	Gorki	1015·5	37	E	4	0	1012·2	+2	34	0	S	1	T	8	*	?
	Velieki Luki ...	1016·4	34	SE	2	0	1012·3	*	34	−2	S	1	s	4	*	34
	Hangö	1009·1	30	−	0	s									*	
	Riga	1006·3	34	SSE	3	0	1011·3	+2	32	+4	SSW	2	0	8	*	28
	Petrograd ...	1016·7	30	E	4	0	1007·7	−4	34	+7	SE	4	s	−	39	27
	Moscow	1023·2	34	−	0	b	1021·5	+2	32	−5	SE	3	c	−	*	28
	Kiev						1015·9	+3	41	+5	WNW	3	0	5	*	36
	Kharkov ...	1021·2	37	E	2	0									*	
	Kishinev ...	1013·6	56	−	0	c	1018·9	+6	50	+2	NNW	3	b	−	*	46
	Elisabetgrad ...	1018·4	50	NW	3	bc	1017·7	0	43	+7	S	3	ʃ	−	*	36
	Nicolaiev ...	1017·1	45	SSW	2	c	1019·4	*	43	−2	S	2	ʃ	−	*	39
	Odessa						1019·4	+3	41	−2	SSW	2	ʃ	−	*	39
	Tarkhankout...	1018·4	45	S	3	ʃ		*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1015·8	52	S	1	0	1015·3	*	48	+2	ENE	1	0	−	61	45
	Pesaro	1016·5	50	E	1	b	1013·9	*	50	0	−	0	bc	−	61	44
	Rome	1015·1	52	−	0	bc	1010·7	*	50	−4	N	1	0	−	63	43
	Viesti	1016·9	57	−	0	b	1014·5	*	54	−7	SE	3	0	−	63	52
	Brindisi	1016·3	59	S	1	b	1016·2	*	54	−4	SE	2	c	−	72	54
	Cagliari	1009·7	66	SE	4	b	1009·0	*	61	+2	SW	3	0	−	68	52
	Palermo						1010·1	*	54	−7	−	0	0	−	68	46
	Tripoli						1009·3	*	73	+12	E	1	b	−	82	55
	Algiers	1009·9	57	NNE	3	r	1010·4	+3	65	−1	SW	4	b	8	61	52
SWEDEN.	Hernösand ...	1011·8	25	−	0	0	1008·6	*	23	0	N	2	b	*	*	*
	Stockholm ...	1008·7	30	E	2	0	1001·0	*	28	+3	E	4	s	*	*	*
	Wisby	1006·1	32	SE	2	b	1001·5	*	36	+6	NE	?1	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 ...	1010·1	30	+5	N	2	r
Reykjavik	1013·5	36	+6	−	0	c
Vestmanna						
Seydisfjord	1012·8	16	−3	−	0	b
Thorshavn	1004·3	32	+3	NE	3	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.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	7	−	41	29	b.bc	c.b	7·0
	Banff	5	Trace	39	28	c.bs.c	bc.b	8·5
	Montrose	4	−	44	29	b	b	8·3
	Carnoustie	*	*				..	
	St. Andrews...							
Eng. N.E.	Harrogate	−	2	44	29	c.bc	c.ors	2·9
	Skegness							
Eng. N.W.	Morecambe							
	Southport	−	2	45	32	bc.c.o	c.ors	1·9
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	−	1	45	27	bx.bc	bc.cr	3·5
Wales.	Rhyl	−	1	46	31	b.bc	bcds	4·0
	Colwyn Bay...	*	*					
	Llandudno	*	*	47	33	bc	os	4·8
	Aberystwyth	*	*	45	33	or.c	c.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	−	−	50	31	bc.c	c	8·0
	Felixstowe	Trace	−	48	30	bcm	bc	7·5
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate	−	−	50	33	b	b	9·2
	Ramsgate							
	Hastings	−	−	47	34	bc.b	b	9·1
	Eastbourne	−	−	48	28	b	b	9·4
	Seaford	*	*					
	Brighton							
	Worthing	−	−	47	29	b	b.bc	9·9
	Littlehampton	−	−	45	36	b	b	9·4
	Bognor	*	*					
	Bournemouth							
England, S.W.	Weymouth...	*	*					
	Torquay	−	Trace	48	29	bc.c.og	c	4·0
	Paignton	*	*					
	Penzance	3	1	50	34	bc	cpr.bc	5·5
	Newquay	−	2	49	32	p	p	2·5
	Bude							
	Ilfracombe	Trace	Trace	47	37	or	berm.r	2·6
	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 and 7th APRIL, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	5.18 / 5.15	11.56 / 11.55	6.33 / 6.35
Greenwich	5.27 / 5.25	12.3 / 12.2	6.39 / 6.40
Wick	5.29 / 5.26	12.15 / 12.14	7.1 / 7.3
Valencia	6.8 / 6.5	12.44 / 12.43	7.19 / 7.21

NOTES ON YESTERDAY'S WEATHER.

Snow, sleet and rain showers fell very generally, and temperature remained low. Bright sunshine was abundant over large areas, but in Ireland, Wales, and N.W. England the records were rather small.

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, 1917. No. 97 — Saturday 7th April.

	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 ...	1005·8	39	N	2	bc	1012·9	+1	36	+1	NNW	2	N	bc	2	—	41	34	bc	bc	bc	*
	Deerness (Orkney)	1004·4	38	ESE	1	c	1013·5	*	36	+2	W	1	NW	c	1	Trace	42	32	bc	bc.c	cx	3·9
	Stornoway ...	1003·8	43	NW	2	bc	1014·2	+4	36	+2	E	2	—	b	2	2	45	32	op.or	op.bc	bcp.b	1·7
	Castlebay (Barra Isd.)	1006·4	44	WNW	2	c	1013·5	+3	42	+5	—	0	—	0	1	2	45	37	ord	od.c	c.o	1·4
	Glasgow ...	1004·9	39	SW	1	0	1013·4	+4	36	+6	ENE	2	—	omg	*	1	42	29	bc.c.om	om.bp	obrp.o	2·1
	Eskdalemuir ...	1008·8	37	SW	3	bc	1013·5	+4	34	+19	—	0	—	om	*	1	38	15	b.bc.c	oph.bc	bc.o.sn	7·0
	Malin Head ...	1006·2	42	W	5	C	1012·8	+3	40	+1	NW	3	N	cm	3	2	45	36	C	cqp	cmp	2·0
	Blacksod Point	1010·8	45	WNW	3	cp	1015·0	?	41	+4	WNW	2	NW	cp	2	3	45	36	C	C	cp.	*
	Valencia ...	1016·2	44	WNW	3	0	1016·4	+1	43	+8	NNW	2	NW	c	3	1	46	35	c.bc.bc	oc.op.o	o.c	5·8
	Roche's Point	1014·9	44	NNW	4	0	1015·5	*	43	+8	NW	2	NW	C	2	—	49	35	c.bc.c	c.o	C	*
	Birr Castle ...	1012·6	44	W	1	C	1014·3	*	39	+12	WNW	1	—	0	*	0·4	47	27	C	o.c	cp.c.o	4·8
	Donaghadee ...	1009·1	42	WSW	3	cm	1012·3	+4	39	+4	NNW	2	NE	cgm	1	0·3	44	34	cm	cm	bcmp	*
	Liverpool (Bidston)	1011·1	39	W	2	0	1012·6	+1	36	+4	SE	1	—	0	2	—	41	32	b	bc.o	0	8·4
	Holyhead ...	1012·0	44	WSW	4	cg	1012·3	+2	41	+3	SW	3	—	opdm	2	1	46	38	bc	bc.c	c opdm	8·8
	Pembroke (St. Ann's)	1013·1	40	W	2	c	1013·2	+2	42	+7	—	0	—	c	1	1	44	35	bc	bc	cpr.op	8·5
	Scilly (St. Mary's)	1014·5	42	N	3	b	1014·2	−1	44	+4	NW	4	NW	C	4	5	45	38	c.bc	bc	bc.cp	10·6
	Falmouth ...	1013·1	42	N	3	b	1013·8	+1	40	+3	NW	1	—	0	*	Trace	47	35	c.b	b.	b.op.o	9·8
	Jersey (St. Aubin)	1010·5	42	N	3	og	1013·0	*	42	−2	NNW	2	—	b	2	0·3	48	34	op	ob.og	c.bwx	1·2
	Portland Bill ...	1010·1	44	NNE	2	bc	1013·0	+1	40	−2	NE	2	—	b	2	—	44	36	c.bc	bc	bc.c.b	*
	Dungeness ...	1009·6	38	NE	4	bc	1011·0	+1	33	−9	NE	3	NE	bc	2	5	45	27	or	bcps	bc.bc	*
	Dover	1010·1	36	N	2	bc	1012·6	+3	35	−7	NW	2	—	b	2	—	41	29	oprs	o.c.bc	bx	0·0
	Wick	1006·8	39	S	1	c	1014·2	+4	32	+2	WSW	1	—	bc	2	—	42	27	bcm.c	bc.c	c.om.bc	*
	Nairn	1006·1	38	W	1	og	1013·5	*	34	+1	—	0	—	bc	0	1	42	30	bcg.c	cg.	cpg.x	1·0
	Aberdeen	1007·5	40	SE	2	c	1014·2	+3	34	+1	WNW	3	N	b	2	—	45	33	b.bc.c	bc.c	c.bc.bx	7·4
	Leith	1007·4	41	W	1	C	1012·9	+2	38	+7	NNE	1	—	o	2	1	44	30	bx.bc.c	c.bc.o.c	c.o.o	*
	Tynemouth ...	1009·2	38	W	2	bcm	1012·5	+3	36	+9	W	1	N	bcm	3	—	40	26	bcm	bcm	bcm	*
	Spurn Head ...	1010·4	39	ENE	2	bc	1012·8	+1	36	+4	WNW	4	—	bmx	3	—	42	31	bc	bc	bc	6·4
	Yarmouth ...	1010·4	38	NE	3	bc	1012·2	+2	32	−3	NNW	2	—	bmx	2	2	41	30	om.bcd	om.bc	bm.bcm	3·6
	Clacton-on-Sea	1010·5	38	ENE	2	bc	1013·1	+2	33	−3	NNW	2	NE	bc	1	4	40	31	os.c	c.bc	c.bcx	1·7
	Nottingham ...	1010·9	41	NNE	2	og	1013·7	*	31	−2	W	1	—	bmx	*	Trace	44	28	bm	bc.op	o.c.bm	7·7
	Benson (Oxon.) ...	1010·6	40	N	1	b	1013·7	+3	27	−6	—	0	—	bx	*	—	45	24	bc	c	bc.b	*
	Sth Farnborough	1009·8	40	N	2	c	1013·2	+2	29	−4	NNW	1	—	bmx	*	4	45	24	s.o.c	C.bc.c	c.o.bmx	3·3
	London (Kew Obsy.)	1010·1	42	NNE	3	bc	1013·8	+3	31	−3	SW	1	—	bmx	*	4	43	29	oms.omsrs	cd.cd.c.o.bc	bc.o.bmx	4·0
NORTHERN EUROPE.	Spitsbergen ...	1004·4	−13	NNW	2	0	?	+2	−31	−7	—	0	*	b	*	*	−13	−36				
	Vardö	1003·1	25	S	3	c	1003·4	0	29	+4	—	0	—	C	1	*	25	12				
	Bodö	1002·9	28	E	2	b	1000·6	−1	32	+4	E	1	—	C	1	?	36	28				
	Christiansund ...	1003·1	34	—	0	b	1005·9	+2	36	0	N	1	—	C	3	5	41	32				
	Skudesnaes ...	1001·3	34	NW	5	C	1008·4	+2	36	+2	N	3	—	b	2	—	37	32				
	Færder (X'tania Fjord)	1001·3	36	S	6	C	1004·4	+4	34	−2	WSW	2	—	b	3	3	36	32				
	The Scaw (Skagen)	1005·1	36	SW	2	b	1006·4	+1	34	+1	W	3	—	b	3	1	37	21				
	Blaavands Huk	1013·6	36	WSW	1	b	1010·1	+2	36	0	NW	1	—	b	0	1	39	32				
	Copenhagen ...	1009·0	37	S	2	0	1009·5	+1	36	0	NW	2	—	b	*	1	41	32				
	Bornholm ...	1010·1	34	SW	1	m	1008·4	0	36	+4	S	1	—	m	0	—	34	32				
FRANCE, &c.	The Helder ...	1009·1	36	N	3	bc	1011·1	+3	34	−2	N	2	—	b	2	4	39	34				
	C. Gris Nez ...	1009·1	34	NE	4	0	1011·1	+2	39	0	NNE	4	*	c	2	6	41	34				
	La Hève	1009·0	40	NNE	3	0	1012·2	*	36	−3	NNE	3	*	bc	2	3	48	34				
	Brest (St. Mathieu)	1012·6	43	N	4	b	1014·1	0	43	−3	NNW	2	*	bc	3	—	45	34				
	Rochefort (Ile d'Aix)	1012·0	47	WSW	4	C	1010·1	+3	44	−2	NNE	5	*	O	*	3	52	41				
	Biarritz	1014·6	50	—	0	0	1010·6	+1	46	+1	E	1	*	r	2	—	55	43				
	Paris	1009·0	48	S	2	bc	1009·6	+2	36	0	N	3	—	S	*	6	55	34				
	Belfort	1012·4	45	W	4	m	?	*	38	+1	—	0	*	m	*	—	53	32				
	Lyons	1012·4	49	WNW	2	bc	1004·1	*	40	+1	—	0	*	C	*	—	54	37				
	Nice	1005·0	50	—	0	b	1004·4	+1	50	+2	—	0	*	bc	3	—	57	43				
	Perpignan ...	1013·6	52	NNW	2	c	1009·9	−1	46	+1	NW	2	W	o	*	—	57	43				
	Sanguinaire ...	1010·4	50	NW	6	m	1009·6	*	49	−1	NW	5	*	o	6	—	52	46				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1013·5	*	SSW	4	bc	1011·1	+2	61	+2	SE	5	*	o	4	1	68	61				
	Madeira	1014·5	64	WSW	3	bc	1017·3	−1	57	+2	W	1	—	b	1	—	64	55				
	Gibraltar	1018·3	56	NW	4	c	1014·9	*	55	+7	NW	4	*	C	2	—	63	47				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1011·8	+1	68	+5	W	1	—	b	0	—	68	46				
	Alexandria ...	1015·0	64	N	2	b	1015·1	+1	66	0	—	0	—	b	0	—	75	59				
	Cairo (Helwan) ...	1013·2	72	—	0	b	1015·4	+3	61	+2	—	0	—	b	*	—	79	55				

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)	69	87	4·1	44	26	24	1	os.c	c.bm	bm.c
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	
WESTMINSTER (St. James's Park)										
CAMDEN SQ. (British Rainfall) ...	—	64	3·0	46	24	25	Trace	bc	—	*
HAMPSTEAD (Reservoir)	*	70	4·1	42	29	19	Trace	os	os.bc	bcx
S. KENSINGTON (Museum Grounds)	*	90		46	33	24	1	osr.c	bc	o.c
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

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

Temperatures at Greenwich and Camden Square are from Glaisher screens.

RAINFALL.

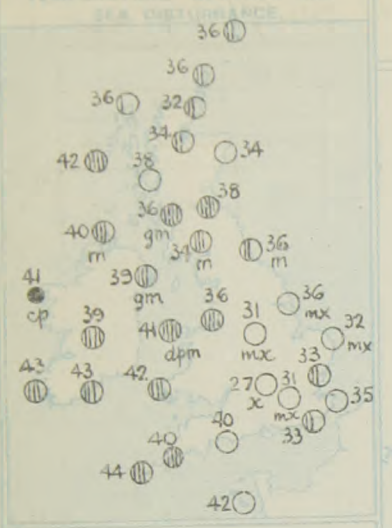
Equivalents of Millimetres in Inches.

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

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

THE MORNING OF SATURDAY, 7TH APRIL, 1917.

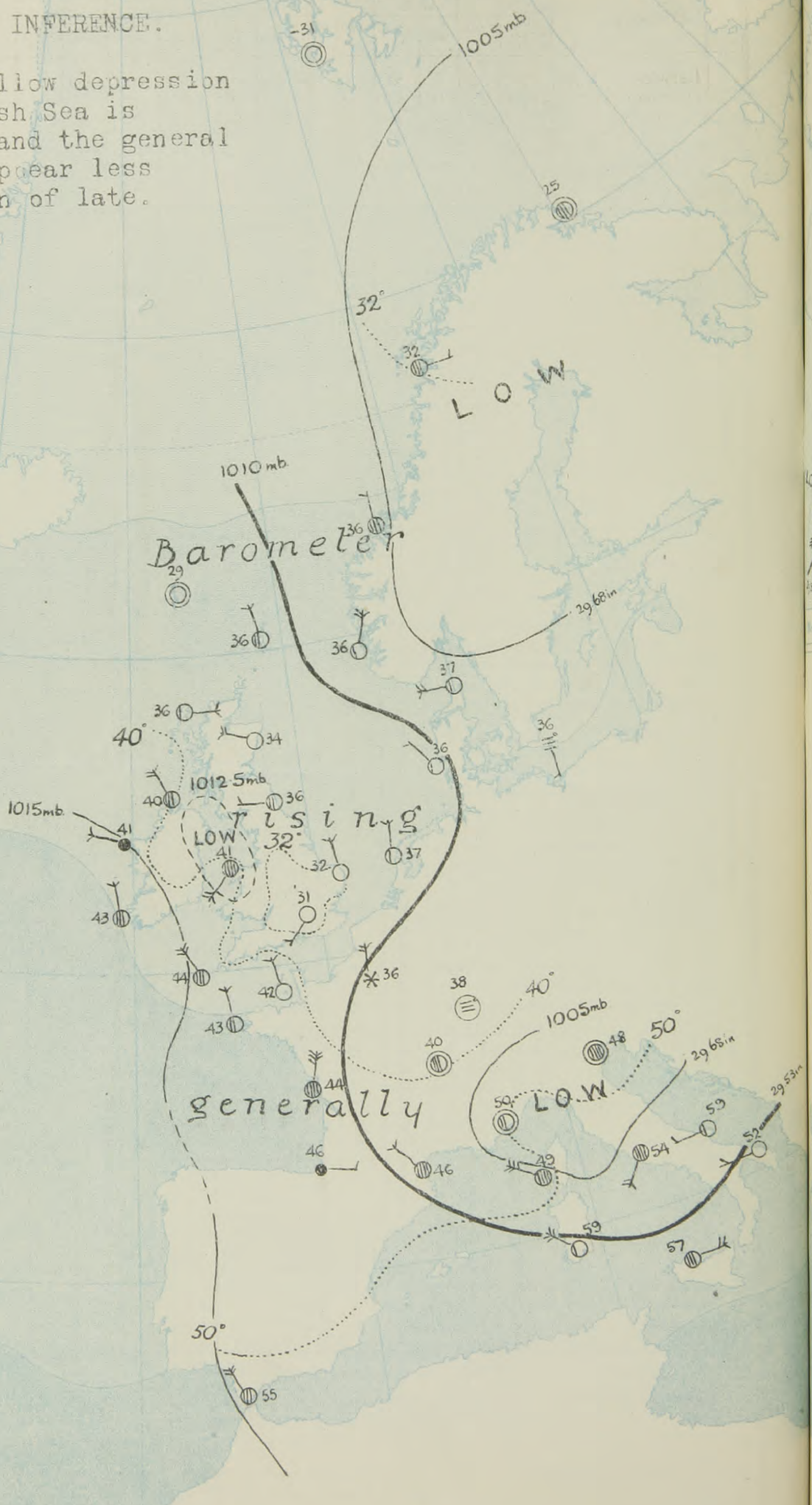
TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE.

The shallow depression over the Irish Sea is dispersing, and the general conditions appear less unstable than of late.



EXPLANATION.

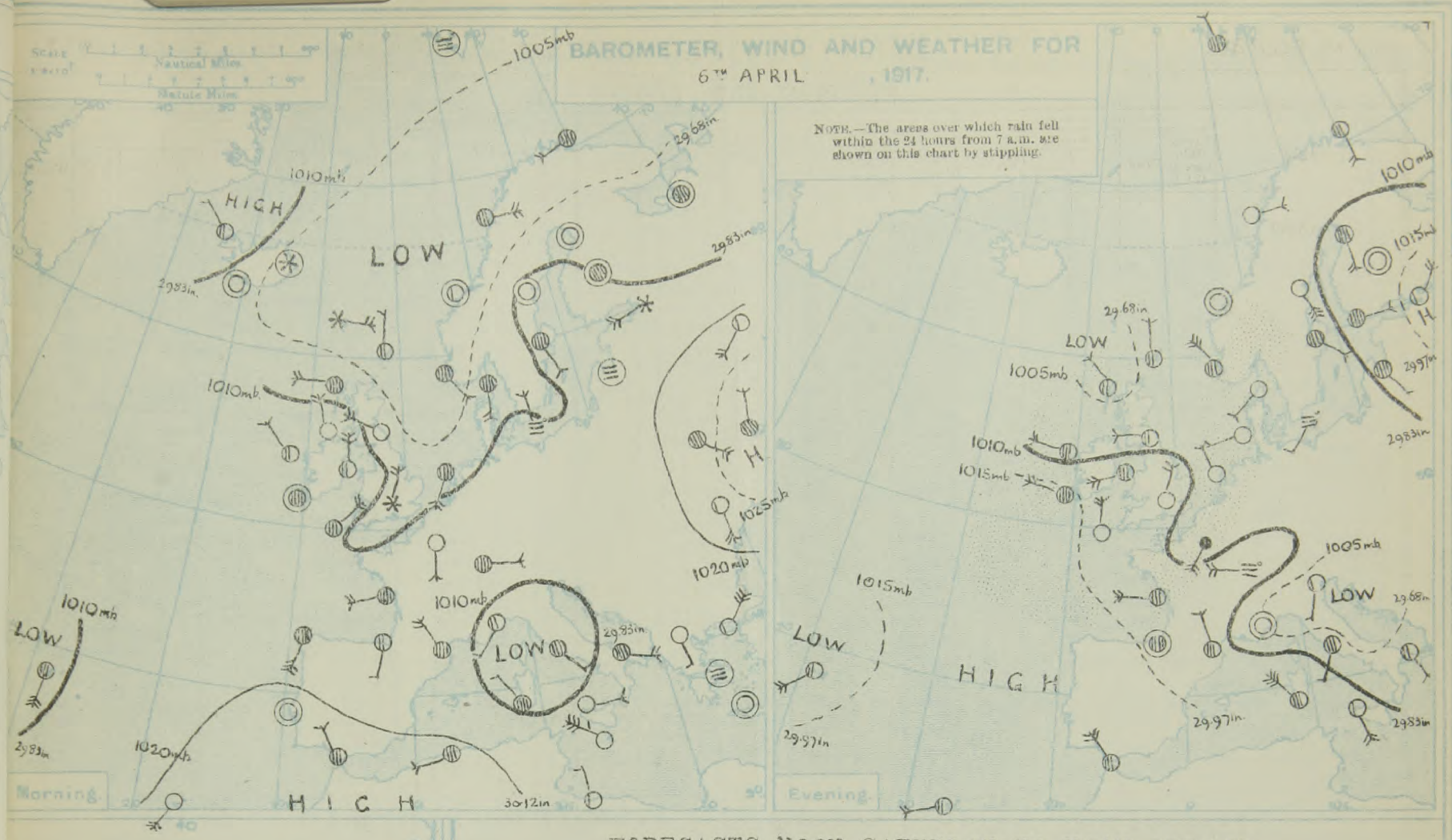
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

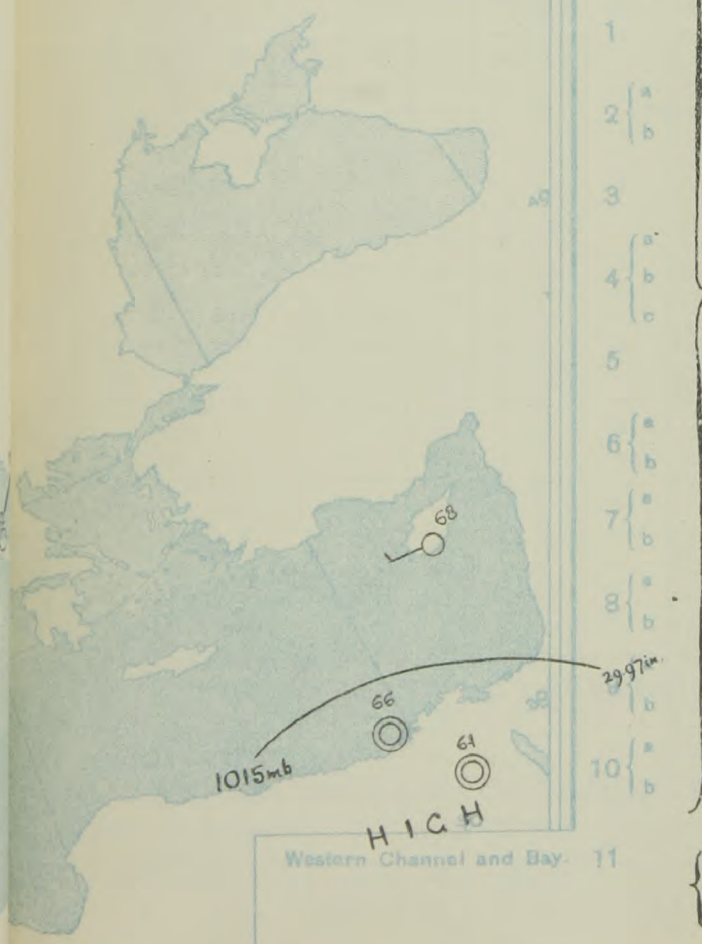
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ∿∿ High ≈≈.



FORECASTS NOON SATURDAY TO NOON SUNDAY.



Western Channel and Bay.	0 a, b 1 2 a, b 3 4 a, b, c 5 6 a, b 7 a, b 8 a, b 9 b 10 a, b	Wind light between North and West, or variable; mostly fair, but some local showers in the western districts; warmer during daytime, frost at night.
	11	Wind North and North-West, light; sea slight; fair

FURTHER OUTLOOK.

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

Issue No. 20,225.

DAILY WEATHER REPORT.

Saturday, 7th April, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp. °F.	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 ...	.	.	.	.	.	1007·8	+2	19	+16	–	0	o	–	*	?
	Gorki	.	.	.	.	.	.	*	.	.	.	.	.	.	*	.
	Velieki Luki ...	10183	36	SE	2	o	.	*	.	.	.	.	.	.	*	.
	Hangö	10063	34	WSW	8	o	1014·3	+4	25	.	WNW	3	c	–	*	23
	Riga	.	.	.	.	.	1016·6	0	32	0	–	0	f	–	*	27
	Petrograd ...	10106	37	SW	3	o	1012·0	+2	34	0	WSW	4	s	–	?	?
	Moscow	.	.	.	.	.	10243	+2	32	0	SW	3	b	3	*	30
	Kiev	.	.	.	.	.	10247	+1	34	−7	SE	4	o	–	*	32
	Kharkov ...	10251	37	NW	3	o	1028·7	+2	34	.	N	2	o	–	*	34
	Kishinev ...	10226	52	–	0	b	1022·1	+1	43	−7	S	3	b	–	*	41
	Elisabetgrad ...	.	.	.	.	.	1027·1	0	32	−11	ESE	3	f	–	*	28
	Nicolaiev ...	.	.	.	.	.	.	*	.	.	.	.	.	.	*	.
	Odessa	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.
	Tatkhankout...	10240	46	N	1	b	1024·6	*	50	.	E	3	b	–	*	43
	Soukhoum ...	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.
Mediterranean.	Venice	10083	50	E	2	r	1004·9	*	48	0	ENE	1	f	8	57	48
	Pesaro	1007·9	52	–	0	o	1006·7	*	45	−5	W	1	o	3	59	45
	Rome	1008·1	57	S	1	o	1006·9	*	54	+4	SE	1	o	7	66	50
	Viesti	1009·5	61	SSE	2	o	1007·0	*	55	+1	–	0	o	–	61	52
	Brindisi	1014·7	59	ESE	2	b	1011·0	*	59	+5	ESE	3	o	–	75	54
	Cagliari	10027	63	W	6	o	1009·9	*	59	−2	NW	1	o	–	66	52
	Palermo	10087	59	WSW	1	f	1011·8	*	57	+3	E	2	b	–	77	52
	Tripoli	.	.	.	.	.	1016·1	*	61	−12	NNW	1	b	–	84	59
	Algiers	1013·6	52	WSW	6	c	1020·8		57	+2	WSW	3	c	–	63	48
Sweden.	Hernösand ...	.	.	.	.	.	1010·7	*	19	−4	–	0	b	*	*	*
	Stockholm ...	.	.	.	.	.	1014·0	*	30	+2	SSE	2	o	*	*	*
	Wisby	.	.	.	.	.	1011·4	*	32	−4	E	2	s	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F.	Change in 24 hours °F.	Wind. Direc.	Force 0–12.	Weather.
Isafjord ...	1011·9	27	−3	–	0	b
Reykjavik	1009·6	28	−8	–	0	b
Vestmanna	.	.	.	.	.	.
Seydisfjord	1008·0	30	+14	–	0	s
Thorshavn	1002·3	34	+2	ESE	3	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. Mm.	Day. 9h-18h. Mm.	Temperature. Max. F.	Min. F.	Weather. Forenoon.	Afternoon.	Sunshine Hr.
Scotland.	Oban	–	3	41	29	o.c	r. o	0·4
	Banff	Trace	–	42	31	bc	bc.c	6·2
	Montrose	–	–	45	28	b	b	5·5
	Carnoustie	*	*					
	St. Andrews...	–	–	44	29	b	bc	7·2
Eng. N.E.	Harrogate	4	–	42	22	b	b.bc.c.o	9·3
	Skegness							
Eng. N.W.	Morecambe							
	Southport	1	–	42	25	b.bc.c	b.o	6·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	1	–	43	28	r.o	b.bc	8·5
	Colwyn Bay...	*	*	44	31	bc	bc	?
	Llandudno	*	*	43	29	c.b	bc	8·8
	Aberystwyth	*	*	43	29	r.c.b	b.bc	11·5
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h. Mm.	Day. 9h-18h. Mm.	Temperature. Max. °F.	Min. °F.	Weather. Forenoon.	Afternoon.	Sunshine Hr.
England, E.	Lowestoft							
	Felixstowe	4	3	39	33	ors. bc	c.bc	2·1
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate							
	Ramsgate							
	Hastings	1	5	43	33	o.rs	o.bc	0·5
	Eastbourne	2	7	43	34	ors	os.o.bc	0·6
	Seaford	*	*					
	Brighton							
	Worthing	2	1	42	36	d	b.e.b	2·8
	Littlehampton	3	1	42	35	d.r.	bc.o	2·2
	Bognor	*	*					
	Bournemouth	3	–	47	35	o.bc	bc	5·6
England, S.W.	Weymouth...	*	*					
	Torquay	3	–	47	38	o.c.bc	bc.b	6·6
	Paignton	*	*					
	Penzance							
	Newquay							
	Bude	3	–	48	36	b	bc	11·5
	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.

7th & 8th Apr. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·15	11·55	6·35
	5·12	11·55	6·37
Greenwich	5·25	12·2	6·40
	5·23	12·2	6·41
Wick	5·26	12·14	7·3
	5·23	12·14	7·5
Valencia	6·5	12·43	7·21
	6·2	12·43	7·23

NOTES ON YESTERDAY'S WEATHER.

Snow fell at many southern stations during the morning, but generally much bright sunshine was recorded. Temperature remained below 45° in most parts of the Kingdom, below 40° 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; 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, 1917. No.98

Sunday 8th APRIL

	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 ...	1012·6	39	WSW	1	bc	995·4	−4	41	+5	S	5	–	oq	5	–	42	35	bc	bc	oq	0
	Deerness (Orkney)	1012·5	40	S	3	b	995·2	*	40	+4	S	5	–	o	5	–	43	36	oph.c	c.bc.b	b.bc.o	4·4
	Stornoway ...	1011·3	44	SW	3	c	995·6	−9	41	+5	W	6	–	opq	5	2	46	36	b	b.bc.c	c.opq	8·2
	Castlebay (Barra Isd.)	1013·7	44	WSW	4	o													o.c.o	o.c.o		
	Glasgow ...	1014·3	43	E	1	om	1004·1	−8	40	+4	SSW	4	–	o	*	0·1	43	36	om.dp.o	om.c.o	om.co	0·0
	Eskdalemuir ...	1015·2	37	–	0	o	1006·8	−5	36	+2	SW	5	–	o	*	–	40	34	om.c	o	o.om.o	0·4
	Malin Head ...	1013·8	45	NW	3	bc	1002·2	−10	41	+1	SW	6	W	c	5	–	43	39	bc	bc	cmq	7·7
	Blacksod Point	1015·7	44	WSW	2	bc	1006·8	–	44	+3	W	4	–	omr	4	1	48	40	bc	bc	bc.cp	*
	Valencia ...	1017·6	47	W	3	c	1012·8	−3	45	+2	WSW	3	W	c	3	0·4	50	43	o.c	c.bc	c.o.cp	4·4
	Roche's Point	1016·6	47	WSW	2	o	1013·2	*	42	−1	W	1	W	c	2	0·2	52	38	c	c.o	cw	*
	Birr Castle ...	1015·0	48	NW	1	o	1009·8	*	42	+3	W	1	–	o	*	0·2	49	39	o	o.c.o	op	0·4
	Donaghadee ...	1014·6	44	SSE	2	bc2	1007·8	−4	38	−1	SW	3	SW	cmp	2	0·1	46	37	bcm	bc2	ogm.cp	*
	Liverpool (Bidston)	1015·3	43	W	1	bc	1010·6	−3	38	+2	S	2	SE	c	1	–	48	36	o	c.b	bc	3·7
	Holyhead ...	1015·2	45	N	2	bx	1010·3	−3	41	0	SSW	4	–	of	3	–	50	39	bc	bc.c.b	b.bc.co	7·3
	Pembroke (St. Ann's)	1016·0	43	WNW	2	b	1013·0	−3	43	+1	SW	3	SW	c	2	–	49	40	cp.c	c.bc.b	bc.c	5·8
	Scilly (St. Mary's)	1016·5	46	N	2	bc	1016·3	−2	43	−1	SW	1	SW	c	3	1	51	39	cp	bc	bc	5·3
	Falmouth ...	1016·9	45	NNW	2	bc	1014·4	−1	37	−3	NW	2	–	bx	*	Trace	49	34	o.c.bc	bc.cp	bc.cx	2·5
	Jersey (St. Aubin)	1015·3	45	N	3	b	1015·3	*	35	−7	N	1	–	cm	1	–	49	31	b	b	bwx.cm	12·0
	Portland Bill ...	1014·9	43	W	2	b	1014·2	−1	42	+2	W	2	–	c	2	–	47	39	b.bc	bc	b.bc	*
	Dungeness ...	1014·2	41	NE	3	bc	1014·3	0	34	+1	NNE	2	–	b	1	–	44	31	bc	bc	bc.c.bx	*
	Dover	1017·1	39	N	2	bc	1014·4	0	36	+1	NW	1	–	b	2	5	47	29	b	b.bc	bc.bx	10·3
	Wick	1012·7	40	S	2	bc	997·2	−7	40	+8	SSW	4	–	o	4	–	43	32	bc.c	c.bc	bc.og	*
	Nairn	1012·0	43	–	0	cg	998·1	*	41	+7	W	3	–	cg	2	–	45	32	bc	bc.c	cg	10·4
	Aberdeen	1014·0	41	S	3	b	1001·9	−7	38	+4	S	2	–	o	2	–	47	34	b.bc	bc.b	b.bc.o	11·2
	Leith	1013·8	41	N	1	o	1003·5	−3	40	+2	WSW	2	W	c	2	–	44	37	o.c.bc.o	o	o.c.bc.c	*
	Tynemouth ...	1014·8	41	WSW	1	bcm	1008·2	−4	39	+3	SW	2	SW	cm	2	–	43	36	bcm	bcm	cm	*
	Spurn Head ...	1015·7	40	E	2	bc	1012·8	−2	37	+1	SSW	4	–	o	3	–	46	35	bc	bc	b	8·5
	Yarmouth ...	1014·6	40	NE	3	b	1014·6	−2	33	+1	WSW	1	–	bx	1	–	45	30	bm	bm.bc	bmx	10·7
	Clacton-on-Sea	1015·3	40	ESE	1	bc	1014·6	−1	38	+5	SSE	1	–	b	0	–	45	31	bc	bc.c.bc	bc.bx	8·4
	Nottingham ...	1015·0	43	E	1	c	1012·1	*	35	+4	WSW	1	SW	c	*	–	48	30	bc.c	c.o	bc	2·6
	Benson (Oxon.) ...	1014·7	40	NE	1	c	1013·7	−1	33	+6	SE	1	SW	r	*	–	48	27	bc	bc	cm	*
	Sth Farnborough	1014·4	44	NE	1	bc	1013·4	−1	34	+5	SSE	3	–	bc	*	–	49	29	b.c	c.o.c	bc.o.bc	5·3
	London (Kew Obsy.)	1015·3	45	NNE	2	o	1014·0	−3	32	+1	–	0	–	omx	*	–	47	30	bmx.c.o	o	o.omx	5·6
NORTHERN EUROPE.	Spitsbergen ...	1010·8	−41	SSE	1	b	1006·0	0	−27	+4	N	5	–	o	*	*	−27	−41				
	Vardö	999·1	27	–	0	bc	1002·0	+8	23	−4	NW	4	–	o	5	*	28	21				
	Bodö	1005·6	28	NW	4	o	1010·4	+2	27	−5	E	1	–	c	1	?	36	21				
	Christiansund ...	1012·2	36	–	0	c	1006·0	−3	34	−2	SE	1	–	b	3	Trace	37	30				
	Skudesnaes ...	1011·9	34	NNW	3	c	1007·9	−4	36	0	ESE	3	–	o	2	–	41	28				
	Færder (X'ianiaFjord)	1009·8	36	WSW	1	bc	1010·7	0	32	−2	NE	2	–	b	1	–	37	32				
	The Scaw (Skagen)	1009·5	36	–	0	bc	1010·6	0	36	−1	E	1	–	bc	0	–	43	28				
	Blaavands Huk	1013·1	37	NNW	2	b	1012·6	−1	36	0	NW	2	–	b	1	–	41	32				
	Copenhagen ...	1010·0	39	N	2	b	1009·6	0	34	−2	N	2	–	b	*	–	43	30				
	Bornholm ...	1007·9	39	NW	2	b	1008·3	0	34	−2	NNE	2	–	m	0	–	39	30				
FRANCE, &c.	The Helder ...	1014·0	39	N	3	bc	1013·2	−1	37	0	NNW	2	N	b	1	?	41	34				
	C. Gris Nez ...	1014·3	38	NE	3	b	1014·4	−1	38	+1	NNE	1	*	b	1	–	45	34				
	La Hève	1013·6	41	NNE	3	b	1015·8	*	37	+1	SSW	1	*	bc	1	–	43	36				
	Brest (St. Mathieu)	1016·8	50	N	2	b	1016·6	−1	44	+1	SW	2	*	bc	2	–	52	41				
	Rochefort (Ile d'Aix)	1013·6	47	N	5	o	1016·2	+1	41	−3	ENE	3	*	b	*	–	52	36				
	Biarritz	1014·2	47	NNW	3	c	1014·6	0	46	0	NNE	1	*	bc	2	1	54	39				
	Paris	1012·4	39	N	3	o	1014·6	+2	34	−2	N	2	–	o	*	Trace	43	32				
	Belfort	1008·2	42	W	4	m	1011·0	*	34	−4	–	0	*	f	*	–	53	28				
	Lyons	1008·6	42	–	0	o	1011·5	*	33	−7	NNW	2	*	s	*	5	59	32				
	Nice	1005·2	48	E	3	bc	1005·0	0	40	−10	E	3	*	tlr	3	5	59	39				
	Perpignan ...	1007·6	54	NW	2	c	1012·2	+2	44	−2	N	3	N	b	*	–	63	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·8	50	NNE	6	c	1019·8	0	45	–	E	2	–	p	2	Trace	50	39				
	Madrid	1007·5	46	N	1	r	1017·5	+2	37	−6	NNE	1	–	b	*	10	54	32				
	Lisbon	1013·6	54	NNW	5	c	1015·0	+3	48	–	N	3	–	b	6	–	55	46				
	Azores (Horta) ...	1010·2	*	SSE	6	o	1009·0	0	55	−6	NNE	3	*	o	2	3	63	55				
	Madeira	1018·0	64	N	2	c	1015·6	−2	59	+2	SE	3	–	o	1	–	66	59				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1009·0	−6	61	+4	SSW	3		b	2	–	64	57				
	Limassol	*	*	*	*	*	1014·3	+3	66	−2	W	2	–	b	0	–	75	45				
	Alexandria ...	1015·6	64	N	4	b	1018·0	+1	64	−2	NE	2	N	b	1	–	82	59				
	Cairo (Helwan) ...	1014·4	45	NNE	2	b	1016·8	+2	61	0	N	3	NW	b	*	–	82	57				

RAINFALL

Equivalents of Millimetres in Inches.

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

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.	Temp. Min. °F.	Temp. Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	57	74	3·9	47	29	21	–	b.c	c.bc.b	bx.cx
CITY (Bunhill Row)	*	*	3·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	82	2·2	48	31	27	–	bc.oc.b	o	o.b.bcm
CAMDEN SQ. (British Rainfall) ...	?	70	3·9	50	29	25	–	–	–	*
HAMPSTEAD (Reservoir)	*	71	5·0	46	30	17	?	bc.o	bmx	bmx
S. KENSINGTON (Museum Grounds)	*	77	3·0	47	33	24	Trace	om.cm	cm	cm.b
RICHMOND PARK	*	*	4·7	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

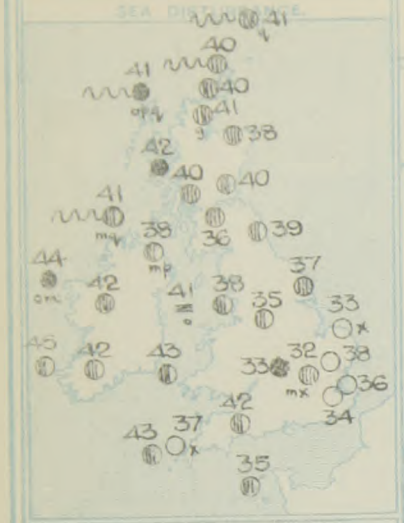
Total.	Average Rate.	Max. Rate.
Joules. 732	Milliwatts. 15.4	Milliwatts. 66

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.

THE MORNING OF Sunday. 8th APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE.

The depression in the North will cause an increase of wind over the Kingdom generally.

EXPLANATION.

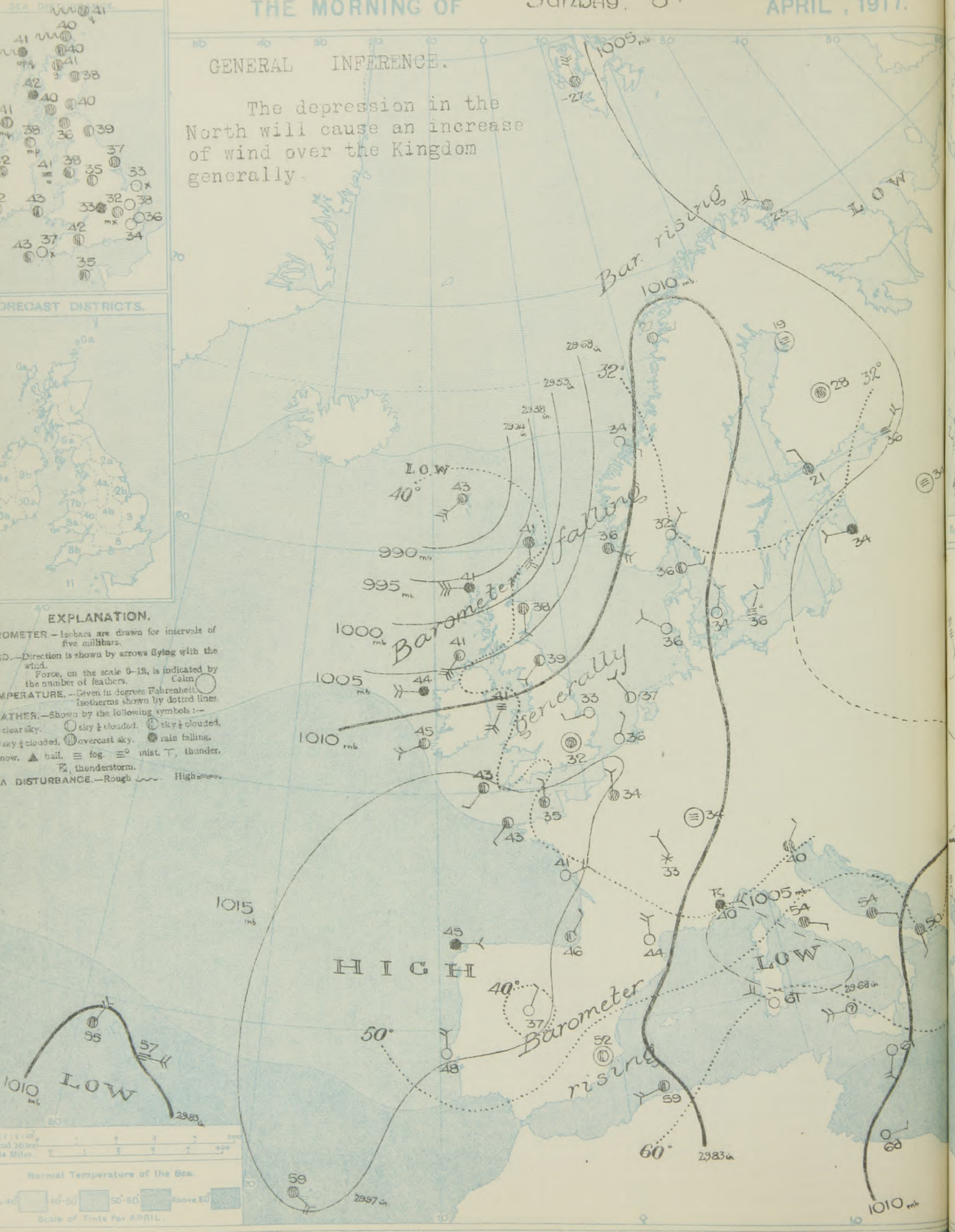
BAROMETER.—Isobars are drawn for intervals of five millibars.

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.

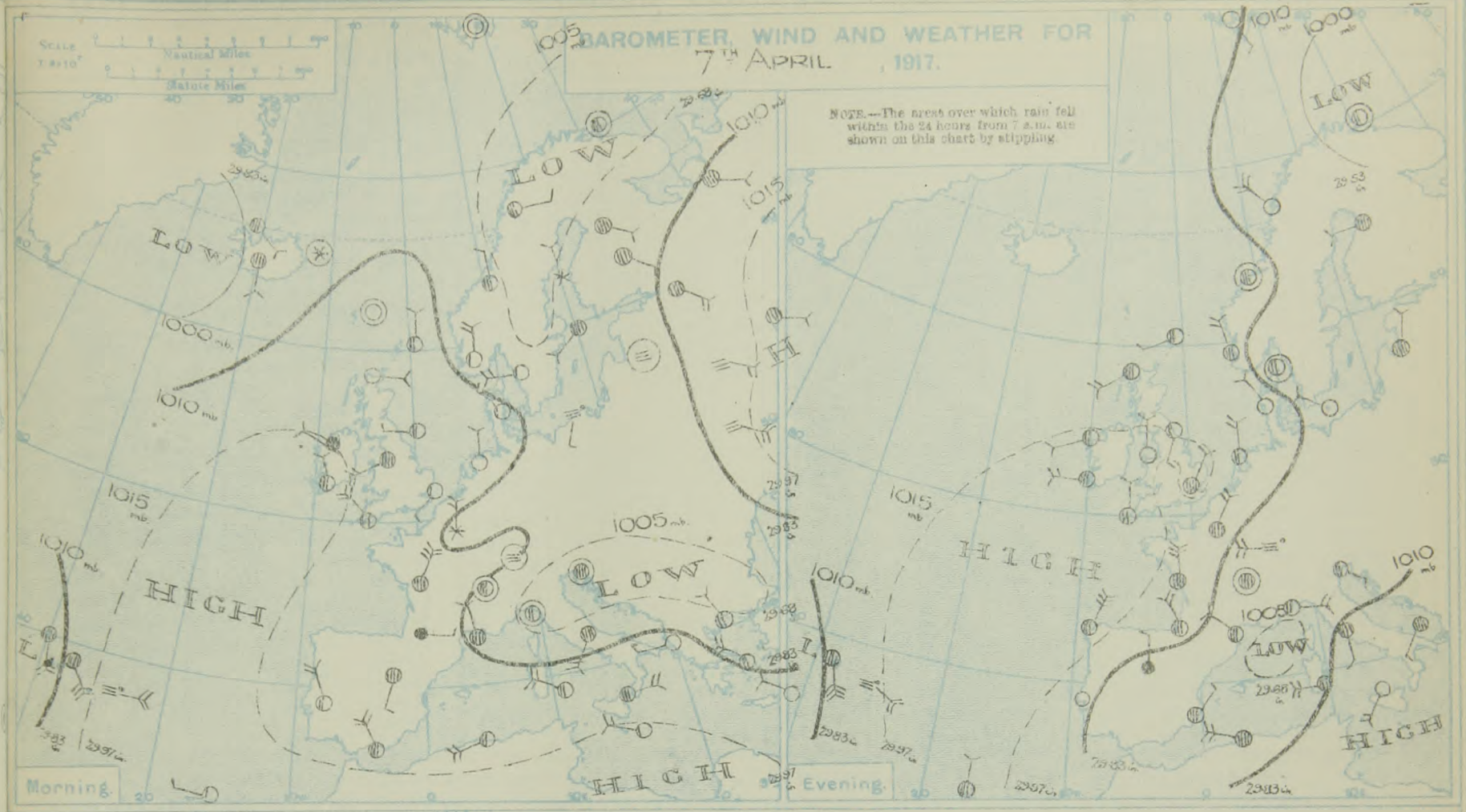
SEA DISTURBANCE.—Rough High

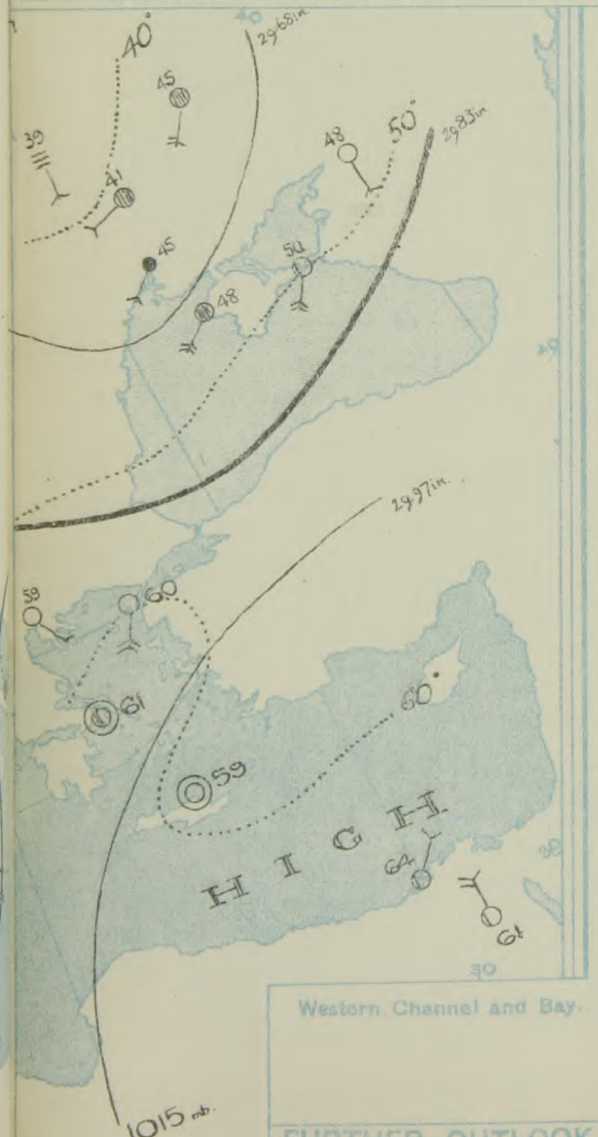


SCALE 1 (2 = 10)
Nautical Miles 0 1 2 3 4 5 600
Statute Miles 0 1 2 3 4 500

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

BAROMETER, WIND AND WEATHER FOR 7TH APRIL, 1917.





FORECASTS NOON SUNDAY TO NOON MONDAY

0{a b} 1 — South-West to West winds, strong to a gale; changeable, showery, rain, sleet or snow; generally cold.

2{a b} 3 — South-West and West winds, increasing;

4{a b c} 5 — changeable, some rain, sleet or snow showers; cold.

6{a b} — Same as Nos 0 & 1.

7{a b} 8{a b} — South-West to West winds, increasing; squally, sleet or snow at times; cold.

9{a b} — Same as Nos. 0 & 1.

10{a b} — Same as Nos. 7 & 8.

11 — Wind between South and West, light to moderate; sea moderate; fair.

FURTHER OUTLOOK.

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

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	1008·4	21	NW	3	c	1018·3	+1	10	-9	ESE	2	c	–	*	0
	Gorki	1016·3	34	–	0	b	1012·0	–	32	–	SE	3	f	2	*	32
	Velieki Luki	1015·8	41	SE	2	p	1012·0	*	36	–	SE	3	f	2	*	34
	Hangö	1011·0	28	ESE	2	c	1007·2	-1	30	+5	WSW	1	f	?	*	23
	Riga	1011·3	38	SE	1	c	1007·9	-1	37	+5	–	0	f	–	*	28
	Petrograd	1016·4	32	E	3	b	1011·8	-3	32	-2	SE	3	c	–	36	27
	Moscow	1015·0	9	E	2	b	1018·6	-1	36	-4	S	2	c	–	*	9
	Kiev	1018·4	43	SE	4	b	1014·9	-2	39	+5	SE	4	f	–	*	34
	Kharkov	1024·6	41	SE	3	c	1020·3	-2	37	+3	SE	3	f	–	*	37
	Kishinev	1015·4	34	–	0	b	1007·9	-5	43	0	SE	3	c	–	*	34
	Elisabetgrad	1020·4	45	SE	2	b									*	
	Nicolaiev	1018·7	52	ENE	4	b	1011·9	*	43	–	NE	2	c	–	*	?
	Odessa	1018·1	50	SSE	3	b									*	
	Tarkhankout	1018·0	46	–	0	b	1009·5	*	46	-4	N	1	c	1	*	45
	Soukhoum														*	
Mediterranean.	Venice	1002·5	50	SSW	1	b	1003·1	*	48	0	–	0	c	2	52	46
	Pesaro	1004·7	50	SW	1	c	1004·6	*	52	+7	SW	2	b	?40	52	45
	Rome	1007·9	52	SW	1	c	1008·9	*	54	0	SW	3	c	5	59	48
	Viesti	1004·3	52	SSW	4	c	1008·7	*	59	+4	W	1	b	–	55	48
	Brindisi	1009·0	57	ESE	2	bc	1010·7	*	52	-7	W	1	b	–	68	52
	Cagliari	1013·5	69	NW	6	c	1011·4	*	59	0	NW	4	b	2	69	52
	Palermo	1013·5	55	SSE	4	b	1012·3	*	57	0	E	3	c	–	68	52
	Tripoli						1018·6	*	59	-2	–	0	b	–	68	46
	Algiers	1018·7	55	W	3	bc	1013·1	-1	59	+2	WSW	4	bc	–	63	48
Sweden.	Hernösand	1005·7	28	SSE	6	b	1005·6	*	27	+8	N	2	s	*	*	*
	Stockholm	1009·0	32	SE	2	c	1007·1	*	32	+2	SW	2	c	*	*	*
	Wisby	1006·3	34	NW	2	c	1006·2	*	36	+4	SW	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	1001·5	37	+10	SSE	2	c
Reykjavik	1000·7	37	+9	S	2	c
Vestmanna						
Seydisfjord	1007·9	32	+2	–	0	s
Thorshavn	1011·4	29	-6	–	0	b

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	–	48	33	b.bc	c	1·9
	Banff	–	–	44	26	b	b	10·0
	Montrose	–	–	45	28	b	b	6·3
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	–	–	47	30	b.bc	c.bc	6·5
	Skegness	*	*	43	30	bc	b	10·8
Eng. N.W.	Morecambe							
	Southport	–	–	49	35	o.c.o	c.bc.c.b	4·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	–	–	51	28	bx.bc	bc.c	6·1
Wales.	Rhyl							
	Colwyn Bay	*	*					
	Llandudno	*	*	48	35	c	c	5·6
	Aberystwyth	*	*	47	35	o.c	bc.c	5·0
	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	–	44	29	b.bc	c.bc	8·3
	Walton-on-Naze	Trace	–	44	30	b.bz.b	bc.b	8·7
	Southend-on-Sea							
England, S.E.	Margate	–	–	42	35	b	b	11·0
	Ramsgate							
	Hastings	–	–	46	32	b	b.bc	10·3
	Eastbourne	Trace	–	45	31	b	b	6·9
	Seaford	*	*					
	Brighton							
	Worthing							
	Littlehampton	–	–	45	36	bc.b	c.o	6·8
	Bognor	*	*	44	41	br	bc	6·8
	Bournemouth	–	–	50	30	b	b.bc	8·4
England, S.W.	Weymouth	*	*					
	Torquay	–	–	49	33	b	b.bc.c.o	8·3
	Paignton	*	*	50	31	b	b.c	8·0
	Penzance	5	–	52	38	bc	bc.b	6·5
	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.

8th and 9th April, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	5.12 / 5.10	11.55 / 11.55	6.37 / 6.39
Greenwich	5.23 / 5.21	12.2 / 12.2	6.41 / 6.43
Wick	5.23 / 5.20	12.14 / 12.14	7.5 / 7.7
Valencia	6.2 / 6.0	12.43 / 12.43	7.23 / 7.25

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° in about all parts of the Kingdom. Slight showers fell in the West, but generally the weather was dry, with a fair amount of bright sunshine; at Jersey the value was 12 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 99

Monday 9th April 1917

	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 ...	984·2	40	SW	4	c	978·9	−1	35	−6	S	4	–	or	4	3	42	34	cmqr	oc	bc.osp	*
	Deerness (Orkney)	985·4	40	SW	5	c	982·7	*	34	−6	W	3	SW	bc	3	3	42	33	or.o	op.c	cps.bc	2·3
	Stornoway ...	986·4	36	W	5	cpsq	988·8	+4	33	−8	NW	6	–	cq	5	6	43	32	bcpq	bcpsq	c.o.cpsq	5·5
	Castlebay (Barra Isd.)	991·8	38	W	6	oshp	994·6	+3	35		NE	6	NE	bcqph.	6	1	43	32	ospc	oshp	bcqph	3·6
	Glasgow ...	993·6	35	W	4	bc	990·0	−1	32	−8	W	3	–	bcms	*	5	43	29	o.c.oqp	orsp.c	csp.bs	0·8
	Eskdalemuir ...	995·3	36	W	4	o	990·7	0	30	−6	SSW	3	–	o	*	1	40	28	oqor	orshs	b.osq.o	0·2
	Malin Head ...	996·0	38	WNW	6	cmq	994·7	+3	36	−5	NNW	8	N	bcqr	8	3	45	33	cmqp	cmqp	cqph	2·5
	Blacksod Point	1002·1	38	WNW	7	bcqph	1001·2	?	35	−9	NNW	8	NW	cmqph	7	4	44	30	bcqph	bcqph	cmqph	*
	Valencia ...	1008·2	47	WNW	4	qpq	1008·3	+1	35	−10	NW	5	NW	cqph.	5	2	49	33	o.op.c	cpq	bcqph	1·5
	Roche's Point	1005·8	44	WNW	4	c	1006·1	*	36	−6	WNW	3	NW	c	3	1	51	34	c op	opq.c	csp.c	*
	Birr Castle ...	1003·3	38	W	1	c	1002·4	*	34	−8	W	2	–	c	*	3	50	30	o.cphr	o.cphr	csx	1·5
	Donaghadee ...	997·3	41	W	4	cmqp	993·7	+2	34	−4	NW	4	–	cmq	4	3	49	31	cmqp	cmqp	cmqps	*
	Liverpool (Bidston)	991·2	40	WSW	4	r	994·1	−2	35	−3	WSW	6	W	cp	5	3	48	31	c.o	oq.c	orphs	1·7
	Holyhead ...	1000·1	40	WNW	4	c	996·2	−2	36	−5	WNW	7	NW	oqq	6	2	47	35	o.c.bcp	c.op cp	bcp.oq	2·2
	Pembroke (St. Ann's)	1003·6	44	SSW	4	r	1001·7	−1	38	−5	WNW	4	NW	bcqr	4	1	47	36	c.	c.cp.or	bc.bcq	0·7
	Scilly (St. Mary's)	1009·0	47	WNW	5	c	1007·2	0	42	−1	NW	7	NW	cqp	6	1	52	39	c.bc	c	o.cqp	2·9
	Falmouth ...	1007·9	46	WSW	5	cq	1004·5	+2	38	+1	WNW	4	–	bcph.	*	3	50	36	b.bcp.c	c.cpq.c	cqph	4·0
	Jersey (St. Aubin)	1010·8	46	WSW	3	o	1004·0	*	42	+7	W	5	W	c	3	1	49	35	cm b.	bc.o	qp.c	7·7
	Portland Bill ...	1007·1	44	SW	5	c	1001·4	0	39	−3	WNW	5	NW	c	4	1	45	37	bcpf	bc.c	cpqrh	*
	Dungeness ...	1007·4	42	SW	4	b	998·8	0	40	+6	WSW	5	SW	bcq	4	3	46	33	b.	bc	bcp.bc	*
	Dover	1008·2	42	SSW	5	b	997·6	0	36	0	SW	3	SW	bc	4	5	44	33	b.	b.bc.c.b	b.osr.b	9·1
	Wick	986·9	39	W	3	c	984·5	+2	33	−7	W	2	–	s	3	1	45	32	cmq	cmq.c	o.cphs	*
	Nairn	988·3	38	W	4	bc	987·4	*	33	−8	WNW	2	W	bc	2	3	49	31	cpq	bcph	bc.csp	4·3
	Aberdeen	984·6	43	WSW	4	b	986·9	+1	36	−2	WNW	3	NW	bc	2	2	46	33	cqm.oq	cqr.c.b	b.bc	1·1
	Leith	992·2	41	W	3	bc	984·1	0	34	−6	W	2	W	c	2	2	48	33	c.bcp.c	cmqu.c	bc.bp.c	*
	Tynemouth ...	995·6	37	WNW	3	smr	990·1	−2	34	−5	NW	2	W	bcm	3	3	46	33	cmq	cmqr	bcm	*
	Spurn Head ...	1000·9	45	SSW	4	bc	994·7	0	36	−1	W	4	–	c	4	2	48	34	c.	c.	bc.or	0·7
	Yarmouth ...	1004·5	42	SSW	5	o	995·6	−1	36	+3	W	3	–	bc	3	3	43	33	bc	bc.sm	cmp.bc	8·6
	Clacton-on-Sea	1005·5	43	S	3	c	996·7	0	37	−1	W	4	W	c	3	2	44	36	b.	b.bc.c	c.or.c	8·0
	Nottingham ...	1000·6	46	SW	5	c	995·0	*	34	−1	W	4	W	s	*	4	50	33	bc.c	cp.o	c.or	3·4
	Benson (Oxon.) ...	1005·4	44	SW	4	o	997·8	0	36	+2	W	4	W	b	*	3	51	32	c.	o	bqrh	*
	Sth Farnborough	1005·6	44	SW	5	o	998·1	0	36	+2	W	3	–	b	*	2	53	33	bc.o.b.o	o.cp.or	orr.b	4·5
	London (Kew Obsy.)	1005·4	46	SW	5	or	997·8	0	37	+5	WSW	4	W	b	*	3	50	32	smx.bcm.q	o.or	or.oh.e.b	3·9
NORTHERN EUROPE	Spitsbergen ...	1006·1	−22	–	0	s	1015·8	+5	−17	+10	–	0	*	o	*	*	−21	−27				
	Vardö	1015·3	16	W	2	b	1017·9	0	21	−2	–	0	–	b	2	*	23	21				
	Bodö	1005·0	30	E	3	b	999·7	−3	30	+3	SE	1	–	b	4	–	30	25				
	Christiansund ...	995·4	39	SSE	2	o	988·8	−4	41	+7	SSE	4	–	o	4	–	41	34				
	Skudesnaes ...	997·1	36	SE	1	o	987·0	−5	34	−2	SSE	8	–	s	6	°	39	28				
	Færder (Xtania Fjord)	1005·1	36	SSE	2	c	999·0	−2	36	+4	SSE	4	–	o	2	–	37	32				
	The Scaw (Skagen)	1006·6	36	SE	1	c	999·0	−3	37	+1	SSE	3	–	c	3	–	41	34				
	Blaavands Huk	1007·1	37	SW	1	b	994·7	−4	37	+1	S	4	–	o	4	–	41	32				
	Copenhagen ...	1007·9	37	SW	3	c	1002·3	−3	36	+2	SSE	2	–	c	*	–	41	30				
	Bornholm ...	1008·3	32	SSW	1	m	1004·6	−2	30	−4	SSW	3	–	f	0	–	37	27				
FRANCE, &c.	The Helder ...	1007·1	37	S	3	b	993·0	−3	36	−1	W	4	–	r	3	2	41	34				
	C. Gris Nez ...	1007·7	41	SW	4	b	997·3	−1	39	+1	W	6	*	bc	5	2	45	36				
	La Hève	1009·1	43	W	2	c	1002·6	*	40	+3	WNW	5	*	o	4	2	48	37				
	Brest (St. Mathieu)	1016·8	50	N	2	b	1008·4	+1	44	0	NW	5	*	o	4	–	52	41				
	Rochefort (Ile d'Aix)	1014·0	46	WNW	3	c	1010·1	+2	48	+7	WSW	4	*	o	*	1	55	41				
	Biarritz	1015·1	50	WNW	2	c	1014·1	0	47	+1	SW	4	*	o	2	6	55	43				
	Paris	1011·0	45	–	0	b	1002·0	−5	41	+7	SW	4	–	o	*	Trace	50	34				
	Belfort	1010·0	39	W	6	m	1010·9	*	36	+2	W	4	*	m	*	–	50	34				
	Lyons	1011·9	39	NW	3	c	1011·9	*	36	+3	–	0	*	bc	*	1	40	33				
	Nice	1006·4	39	–	0	r	1006·0	0	48	+8	–	0	*	b	2	8	59	40				
	Perpignan ...	1012·0	50	NW	3	b	1013·3	+2	46	+2	NNW	2	–	b	*	–	54	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·6	52	N	3	bc	1018·1	+1	50	+5	S	1	–	b	1	1	54	45				
	Madrid	1014·4	48	–	0	c	1017·5	+2	39	+2	–	0	–	b	*	–	56	34				
	Lisbon	1014·4	57	NNW	4	b	1015·1	+1	46	−2	N	2	–	b	5	–	59	46				
	Azores (Horta) ...	1008·0	*	SSE	4	c	1008·4	0	55	0	W	1	*	b	1	7	66	55				
	Madeira	1014·7	58	S	4	r	1011·5	−3	65	−4	SE	4	–	r	4	36	59	55				
	Gibraltar	1013·9	55	NW	4	b	1012·8	*	54		NE	4	*	bc	4	–	65	47				
	Malta	*	*	*	*	*	1008·8	+1	59	−2	NW	5	–	c	2	–	66	52				
	Limassol	*	*	*	*	*	1016·6	+2	66	0	W	3	N	o	0	–	75	48				
	Alexandria ...	1017·6	53	SW	2	b	1018·0	+1	54	−10	ENE	1	E	c	0	–	81	59				
	Cairo (Helwan) ...	1015·8	42	N	2	b	1015·9	+1	59	−2	NE	2	–	b	*	–	80	54				

RAINFALL.

Equivalents of Millimetres in Inches.

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

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.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	62	73	5·3	52	34	30	2	b	or.o	b.c
CITY (Bunhill Row)	*	*	3·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	71	83	4·0	51	36	32	2	bc.oq	oq	bchu
CAMDEN SQ. (British Rainfall) ..	–	74	3·4	51	34	30	2	–	–	*
HAMPSTEAD (Reservoir)	*	74	3·9	48	31	24	2	bc.op	o	or.ck
S. KENSINGTON (Museum Grounds)	*	78	3·8	49	35	31	4	c.bc.c	e.om	or.c
RICHMOND PARK	*	*	4·0	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
940	10·6	69·5

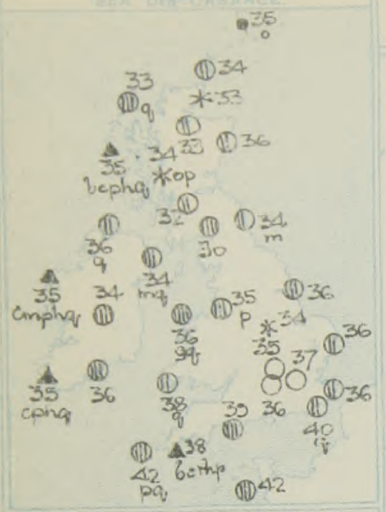
Temperatures at Greenwich and Camden Square are from Glaisher screens.

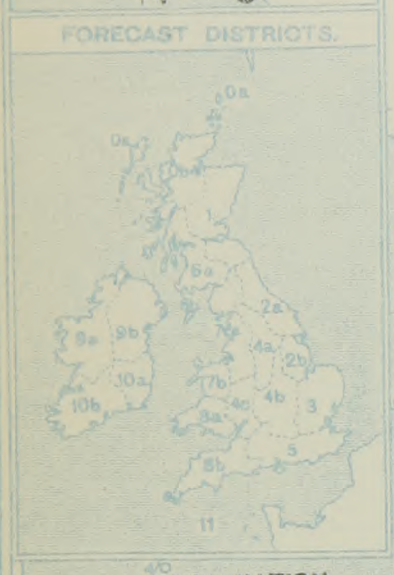
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

THE MORNING OF MONDAY, 9TH APRIL, 1917.

GENERAL INFERENCE.

Secondary disturbances passing across the British Isles will cause further squalls, and showers rain, hail or snow.





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 ≈≈.

HIGH

LOW

LOW

HIGH

1015mb

1010mb

1005mb

1000mb

995mb

990mb

985mb

980mb

Barometer falling

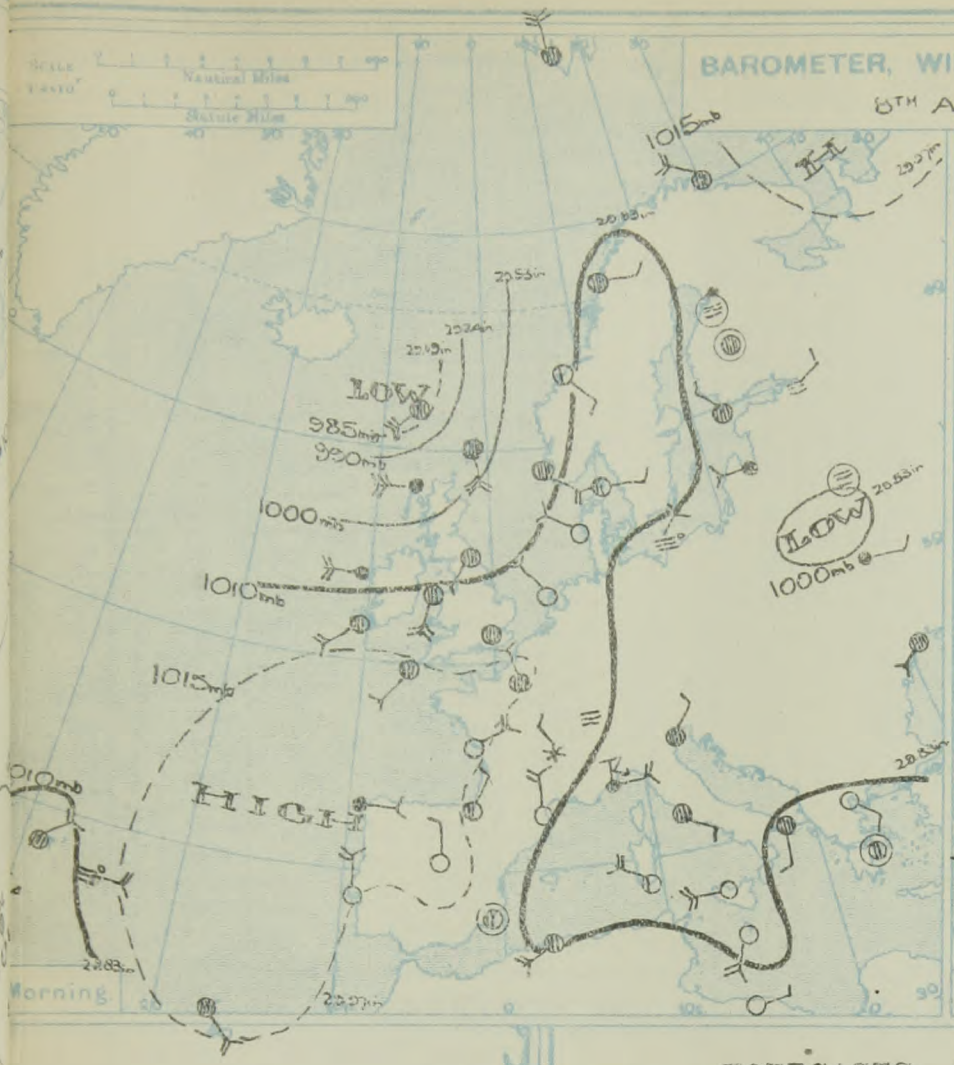
Barometer rising

Normal Temperature of the Sea.

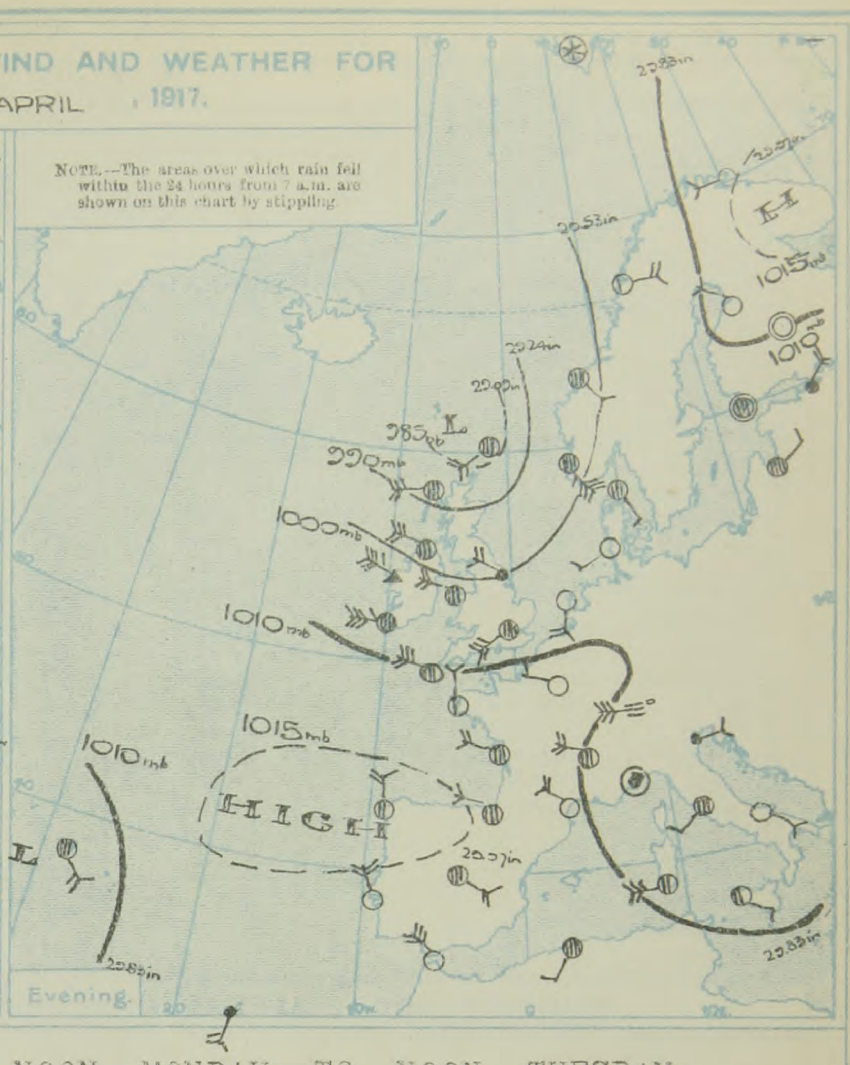
Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 8TH APRIL, 1917.



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



FORECASTS NOON MONDAY TO NOON TUESDAY.

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

Wind West to North-West, increasing, moderate to strong; changeable, showery, squally, hail, rain, snow locally; cold.

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

North-Westerly to Northerly strong or high winds, moderating later, squally, snow, hail or rain showers; cold.

11

North-Westerly, strong or high to moderate winds; sea rough; squally, some showers.

FURTHER OUTLOOK.

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

Issue No. 20,227

DAILY WEATHER REPORT.

Monday, 9th April 1917.

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 ...														*	
	Gorki	1008·4	34	E	4	0	1001·0	+1	34		E	1	ד	4	*	34
	Velieki Luki ...	1007·6	36	SE	3	ד	1003·1	*	34		—	0	ʃ	—	*	34
	Hangö						1004·1	+1	21		—	0	0	—	*	19
	Riga	1004·4	34	NNE	2	0	1003·3	0	34		W	2	ד	3	*	34
	Petrograd ...	1006·8	36	SSE	2	0	1005·3	0	36		NE	3	ʃ	1	37	32
	Moscow	1016·7	34	SSE	3	0	1008·7	+5	36		WNW	2	ד	2	*	34
	Kiev	1006·0	39	E	3	ʃ	1000·7	+1	39		S	2	ʃ	1	*	37
	Kharkov ...	1007·4	45	SE	4	ד	1003·9	+2	45		SSW	3	0	4	*	45
	Kishinev ...														*	
	Elisabetgrad ...	1002·9	43	N	2	0	1003·3	+1	41		WSW	2	0	4	*	41
	Nicolaiev ...	1003·1	46	—	0	c	1003·7	*	45		NE	4	ד	1	*	41
	Odessa	1004·0	50	SW	3	0	1004·0	+1	46		SW	2	0	5	*	45
	Tarkhankout...	1005·3	48	SSE	3	0	1006·4	*	48		SW	4	0	—	*	43
	Soukhoum ...														*	
Mediterranean.	Venice	1007·8	48	ESE	1	bc	1007·1	*	40		NE	1	0	—	54	40
	Pesaro	1008·6	48	SW	1	b	1007·3	*	46		SE	1	ד	3	61	43
	Rome	1010·5	52	S	1	0	1005·8	*	54		SE	1	0	—	59	50
	Viesti	1009·3	55	SW	4	bc	1008·7	*	54		SE	1	0	—	61	52
	Brindisi	1011·0	55	SW	1	0	1012·6	*	50		S	1	0	—	64	50
	Cagliari	1009·7	61	W	5	0	1005·7	*	61		NW	3	b	—	68	52
	Palermo	1013·1	59	SW	3	b	1006·2	*	?		W	4	?	6	?	?
	Tripoli						1010·3	*	68		E	1	b	—	?	54
	Algiers															
Sweden.	Hernösand ...							*						*	*	*
	Stockholm ...							*						*	*	*
	Wisby							*						*	*	*

Morning						
Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn	982·3	43		SW	5	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.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	4	43	39	bc.p	bc.p	2·3
	Banff	—	5	47	33			1·7
	Montrose	—	9	47	32	0	bc	0·5
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	—	—	48	33	c.bc.c	bc.b.c	4·0
	Skegness	*						
Eng. N.W.	Morecambe							
	Southport	—	2	49	30	0	0 c.ov	0·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	—	—	48	33	bc	c	1·4
	Colwyn Bay...	*	*	51	35	bc	c.0	0·0
	Llandudno	*	*	48	35	c	c	0·6
	Aberystwyth	*	*	46	35	0.c	c.0	0·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	—	—	43	28	b.bc	bc.c	8·1
	Felixstowe							
	Walton-on-Naze							
	Southend-on-Sea	—	—	53	32	b.bc	bc.c.ov	6·1
England, S.E.	Margate	—	—	47	33	b	b.bc	10·1
	Ramsgate							
	Hastings	—	—	47	32	b	bc.b	10·3
	Eastbourne	—	—	47	28			8·2
	Seaford	*	*	48	31	bc	bc	9·1
	Brighton	—	—	47	30	b	b	9·7
	Worthing	—	—	48	30	b	b	9·3
	Littlehampton	—	—	46	32	o.b	c.b	9·0
	Bognor	*	*					
	Bournemouth	—	—	50	35	bc	bc	9·0
England, S.W.	Weymouth...	*	*					
	Torquay	—	—	52	35	b	b.bcc.o	6·3
	Paignton	*	*	52	35	b	bc.c	6·7
	Penzance							
	Newquay	—	—	51	33	bc	bc	3·3
	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.

9TH & 10TH April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	5·10	11·55	6·39
	5·8	11·54	6·40
Greenwich	5·21	12·2	6·43
	5·18	12·1	6·44
Wick	5·20	12·14	7·7
	5·17	12·13	7·9
Valencia	6·0	12·43	7·25
	5·58	12·42	7·26

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° in nearly all localities. Showers of rain, sleet or snow fell in all parts of the kingdom, and the duration of bright sunshine was slight except on the East and South-East coasts of England.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 100. Tuesday 10th April

	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 ...	986·0	35	NW	5	sq	991·1	+2	30	-5	NW	5	–	o	4	4	42	30	bcps	ospq	cspq	*
	Deerness (Orkney)	989·8	30	WNW	6	cps	995·6	*	29	-5	NW	6	E	bc	5	4	37	27	bc.cps	o.cps	cpsh.bc	3·3
	Stornoway ...	996·7	30	NNW	6	cpsq	1002·3	+2	27	-6	NW	6	–	oq	5	4	35	25	bsp.sq	bc.cpsq	bc.opsq	4·8
	Castlebay (Barra Isd.)	999·8	29	NNE	3	s													bchsc	spq.cs		
	Glasgow ...	996·7	35	WNW	3	b	1002·3	+3	27	-5	W	3	N	b	*	–	39	25	bcq	bc.c.b	b.bc.bx	8·0
	Eskdalemuir ...	996·2	34	WNW	5	bc	1002·3	+4	25	-5	WNW	5	NW	bx	*	1	39	23	osp.bc	csp.bc	bc.o.c.b	6·4
	Malin Head ...	998·9	32	NNW	6	cq	1004·5	+3	28	-8	NNW	8	N	bcqps	9	2	38	28	bcqph	bcqph	oqpsx	2·2
	Blacksod Point	1006·3	33	NW	8	bcqph	1012·2	–	32	-3	N	6	N	bcqps	6	1	38	27	cmqph	cmqph	cmqps	*
	Valencia ...	1012·1	39	NW	6	bc	1016·3	+2	36	+1	NNW	6	W	cq	4	2	43	34	bcqph	cqphs	bcqh	8·6
	Roche's Point	1009·5	40	NNW	5	bc	1014·8	*	34	-2	NW	3	NW	bc	2	1	43	32	cspq	chq.bc	csp	*
	Birr Castle ...	1006·6	34	W	2	c	1012·1	*	29	-5	WNW	2	–	c	*	1	41	28	qsh	qsh	cps	6·0
	Donaghadee ...	1000·0	34	WNW	4	cmqph	1003·6	+3	29	-5	NW	5	NW	cmqps	5	2	40	28	cmqph	cmqph	cmqps	*
	Liverpool (Bidston)	1000·1	34	W	5	bc	1003·8	+6	33	-2	WNW	4	NW	bcq	5	4	40	30	bcps	bc	os	2·7
	Holyhead ...	1001·4	38	WNW	6	cq	1006·3	+5	34	-2	NW	7	N	bcq	6	1	41	32	cqs.c	cps.o.c	cps.cq	6·8
	Pembroke (St. Ann's)	1006·0	36	WNW	4	bc	1009·8	+5	34	-4	NW	5	NW	bcq	4	1	43	33	bcq	bcqph	bcq	7·9
	Scilly (St. Mary's)	1010·4	42	NW	6	cqp	1014·1	+1	38	-4	NNW	6	NW	cqp	6	2	46	34	cps.c	bc.cqp	cqp	9·5
	Falmouth ...	1008·5	40	NNW	6	bq	1011·9	+2	36	-2	NW	6	–	bc	*	1	45	33	rs.bcq	bcqph	bcqph	9·7
	Jersey (St. Aubin)	1007·5	43	WNW	5	b	1010·6	*	39	-3	WNW	5	W	cqsg	4	2	46	36	op.bqs	oph.b	b.oqsp	9·0
	Portland Bill ...	1003·7	42	WNW	5	bc	1007·0	+2	36	-3	WNW	6	NW	bc	4	1	44	35	bcps	bch	bcq	*
	Dungeness ...	1000·4	35	NW	5	oq	1002·2	0	35	-5	W	5	W	b	5	1	47	32	bcq	cqps	cqs bx	*
	Dover	1000·7	34	NW	5	s	1002·2	?+4	31	-5	W	4	W	s	4	?+4	44	30	bc.ops	bc.osh	sx	7·3
	Wick	991·7	33	NW	4	bc	997·1	+3	33	0	NNW	3	–	tlr	4	4	36	25	cmps	cps bc	bc ops	*
	Nairn	994·8	32	N	4	bcq	1000·2	*	28	+5	N	3	–	bc	3	2	37	25	cspq	cspq	cqs	2·3
	Aberdeen	993·2	34	WNW	5	cqsp	997·5	+2	29	-7	WNW	6	–	ospq	3	Trace	41	27	bcq	bcqsp	bcqsp	7·7
	Leith	995·2	37	NW	3	c	1001·0	+2	29	-5	W	2	W	c	3	–	41	28	c.bc.b.c	cu.bc.c	c.b.bcc	*
	Tynemouth ...	994·4	36	WNW	4	mqs	1000·2	+3	28	-6	WNW	3	–	bmq	4	1	46	27	cq	cmqps	bcmq	*
	Spurn Head ...	995·5	37	N	3	bc	998·1	0	32	-4	NW	6	–	qs	5	–	43	29	cqph	bc	oqps	3·2
	Yarmouth ...	995·7	37	NW	3	bcm	998·7	0	31	-5	NW	4	–	bcm	3	1	44	30	bcqps	bcps	bcmps	3·1
	Clacton-on-Sea	998·2	40	W	4	bc	1001·6	0	33	-4	WNW	4	NW	bc	3	1	43	32	cqs bc	cqs bc	bc.b bc	6·2
	Nottingham ...	998·2	39	WNW	5	b	1001·7	*	29	-5	NNW	4	N	s	*	2	43	27	cps	cps	bcps	5·0
	Benson (Oxon.) ...	1000·8	40	WNW	4	b	1002·9	+1	31	-4	WSW	5	–	c	*	0·4	45	29	bs.c	phy	bsp	*
	Sth Farnborough	1001·0	38	WNW	2	bc	1003·4	0	31	-5	W	3	–	b	*	2	46	28	b.o.cps	cpsh.o	bpos.b	9·3
	London (Kew Obsy.)	1001·0	38	WSW	2	bc	1003·0	+1	33	-4	W	5	NW	bc	*	1	46	32	b.osp.b	o.rsp.o.bc	bc.os.b	6·9
NORTHERN EUROPE.	Spitsbergen ...	1026·0	-22	–	0	b	1032·8	+3	-20	-3	–	0	*	b	*	*	-13	-36				
	Vardö	1014·4	23	–	0	b	1015·8	+1	27	+6	–	0	–	c	1	*	27	12				
	Bodö	1001·1	34	E	4	b	1004·3	+3	30	0	E	4	–	b	2	–	36	28				
	Christiansund ...	990·9	41	SSE	4	c	993·0	+2	41	0	SSE	4	–	o	?	–	43	41				
	Skudesnaes ...	985·1	36	SE	5	o	988·8	+2	36	+2	SE	3	–	c	4	9	36	32				
	Færder (X'tania Fjord)	993·8	37	SE	5	o	993·3	+1	34	-2	E	6	–	r	3	9	39	32				
	The Scaw (Skagen)	994·4	37	SE	6	r	993·6	+2	34	-3	–	0	–	f	2	7	39	?				
	Blaavands Huk	992·7	36	SW	2	c	993·2	0	36	-1	SW	3	–	o	2	Trace	41	32				
	Copenhagen ...	995·9	39	SSE	3	c	996·7	+2	36	0	W	3	–	m	*	Trace	39	34				
	Bornholm ...	997·2	39	SSE	3	m	995·5	+1	32	+2	W	5	–	s	1	3	41	28				
FRANCE, &c.	The Helder ...	995·5	37	SW	4	b	998·6	+1	32	-4	W	1	–	s	2	3	41	32				
	C. Gris Nez ...	1000·4	34	W	5	s	1002·7	-1	34	-5	W	4	*	bc	6	11	43	34				
	La Hève	1003·8	41	NW	5	b	1007·5	*	34	-6	WNW	6	*	o	6	3	48	34				
	Brest (St. Mathieu)	1012·0	45	NW	5	c	1015·3	+2	41	-3	NW	5	*	c	4	–	50	37				
	Rochefort (Ile d'Aix)	1013·0	46	NW	5	c	1015·4	+2	45	-3	WNW	5	*	c	*	–	52	43				
	Biarritz		50	?	3	c	1017·2	+1	45	-2	W	3	*	r	2	10	52	43				
	Paris	1005·7	41	W	3	b	1008·7	0	36	-5	SW	4	–	o	*	3	48	34				
	Belfort	1007·1	45	W	6	r	1012·6	*	34	-2	W	6	*	c	*	1	47	31				
	Lyons	1009·6	45	WNW	3	r	1014·9	*	37	+1	–	0	*	b	*	3	56	32				
	Nice	1006·9	52	SE	4	b	1007·3	0	48	0	–	0	*	b	2	–	61	41				
	Perpignan ...	1012·3	55	SE	1	bc	1016·2	+2	50	+4	N	1	–	o	*	–	66	32				
	Sanguinaire ...	*	50	W	4	o	*	*	52	–	W	4	*	o	5	–	54	48				
SOUTHERN STATIONS.	Corunna	1018·7	52	NW	2	r	1020·0	+1	46	-4	–	0	–	c	1	Trace	54	43				
	Madrid	1013·6	55	–	0	b	1017·2	+2	45	+6	NNE	1	SE	b	*	–	57	37				
	Lisbon	1013·2	59	NNW	4	b	1014·9	+1	48	+2	NNW	2	–	b	2	–	63	46				
	Azores (Horta) ...	1008·3	*	ESE	4	bc	1006·3	0	57	+2	SE	5	*	o	3	1	66	57				
	Madeira	1011·7	59	SE	4	o	1013·2	-2	57	+2	SE	4	–	r	4	50	59	57				
	Gibraltar	1013·9	57	E	4	b	1013·5	*	57	+3	E	5	*	c	3	–	62	53				
	Malta	*	*	*	*	*	1017·5	+2	57	-2	NW	2	–	b	1	–	66	50				
	Limassol	*	*	*	*	*	1015·7	+1	63	-3	W	1	–	b	0	–	70	48				
	Alexandria ...	1015·7	63	ENE	3	b	1015·3	+1	57	-7	SE	2	E	m	1	–	80	55				
	Cairo (Helwan) ...	1013·9	70	NE	4	b	1014·0	+1	61	+2	E	1	–	b	*	–	86	52				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...6.31

GALES
Duration and Extreme Force in British Islands.

Malin Head
NNW, 8; 1h.-7h. 10th.

Blacksod Point
NW, 8; 13h, 9th — 7h. 10th.
Extreme: NW, 10; 23h, 9th.

Valencia
Gust: NNW, 8; 4h, 10th.

Holyhead
WNW, 8; 1h, 10th.

Aberdeen
Gusts: 22 m/s; Afternoon, 9th.

Kew
Gusts: 19 m/s; 14h. 30m. 9th.

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)	78	91	5·3	45	29	27	2	c.cs.c	ors.os	os
CITY (Bunhill Row)	*	*	5·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	68	80	6·3	46	32	30	3	o.bsg	os	o.bsh.s
CAMDEN SQ. (British Rainfall) ..	?	81	5·2	45	29	28	3	–	–	*
HAMPSTEAD (Reservoir)	*	82	5·2	43	27	22	3	beshtl	bcxs	bcxs
S. KENSINGTON (Museum Grounds)	*	85	4·1	49	30	24	3	c.os.c	ogh.bc	bcp.c
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1077	22·4	74·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

NOTE

Solar Halo was observed at Eskdalemuir at 17h, 9th.

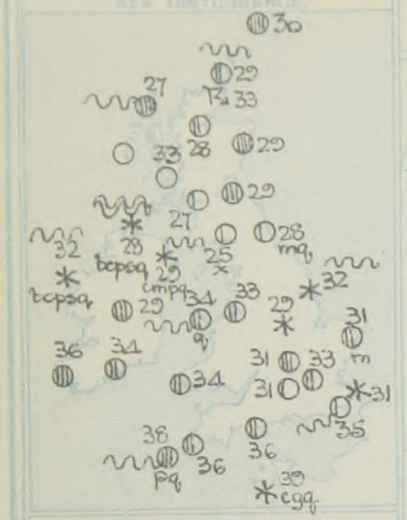
Deerness
2" snow lying: 13h, 9th.

Nairn
2" snow lying: 7h, 10th.

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

THE MORNING OF TUESDAY, 10TH APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE.

A cold North-Westerly type of conditions is likely to continue.

EXPLANATION.

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

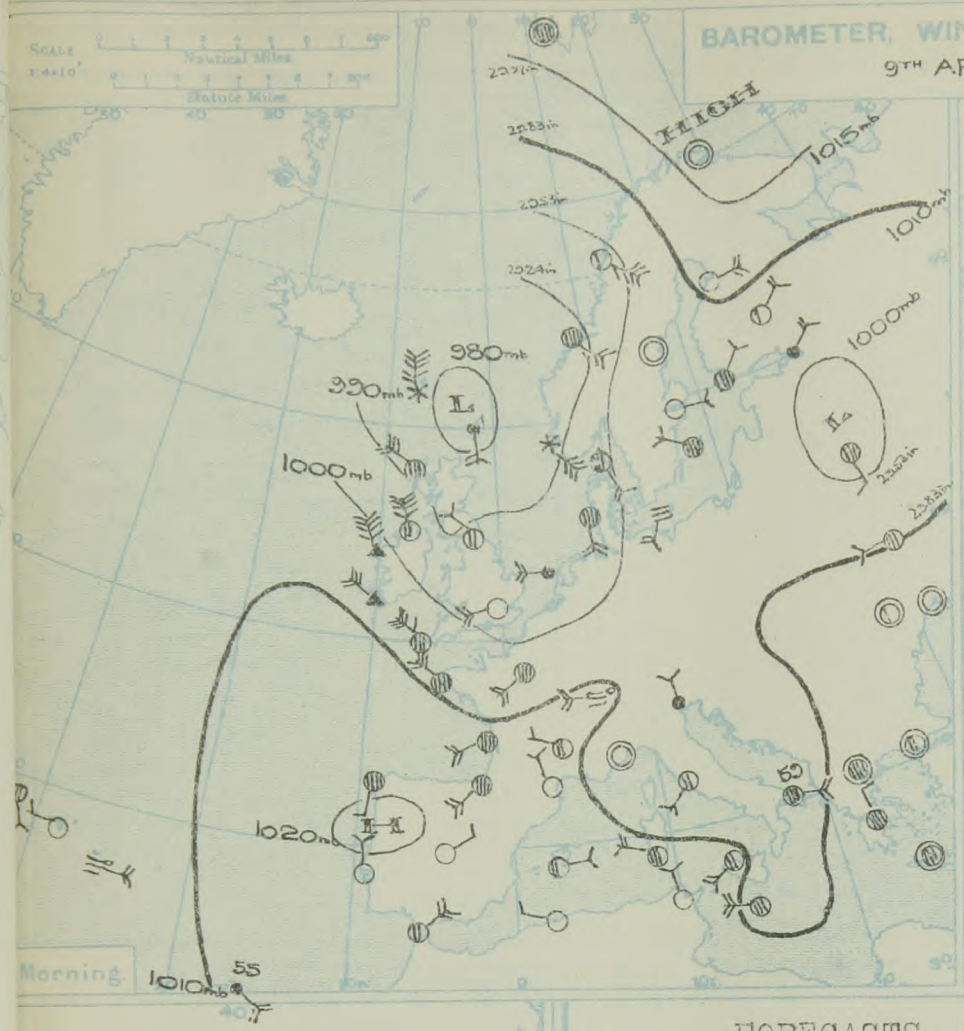
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

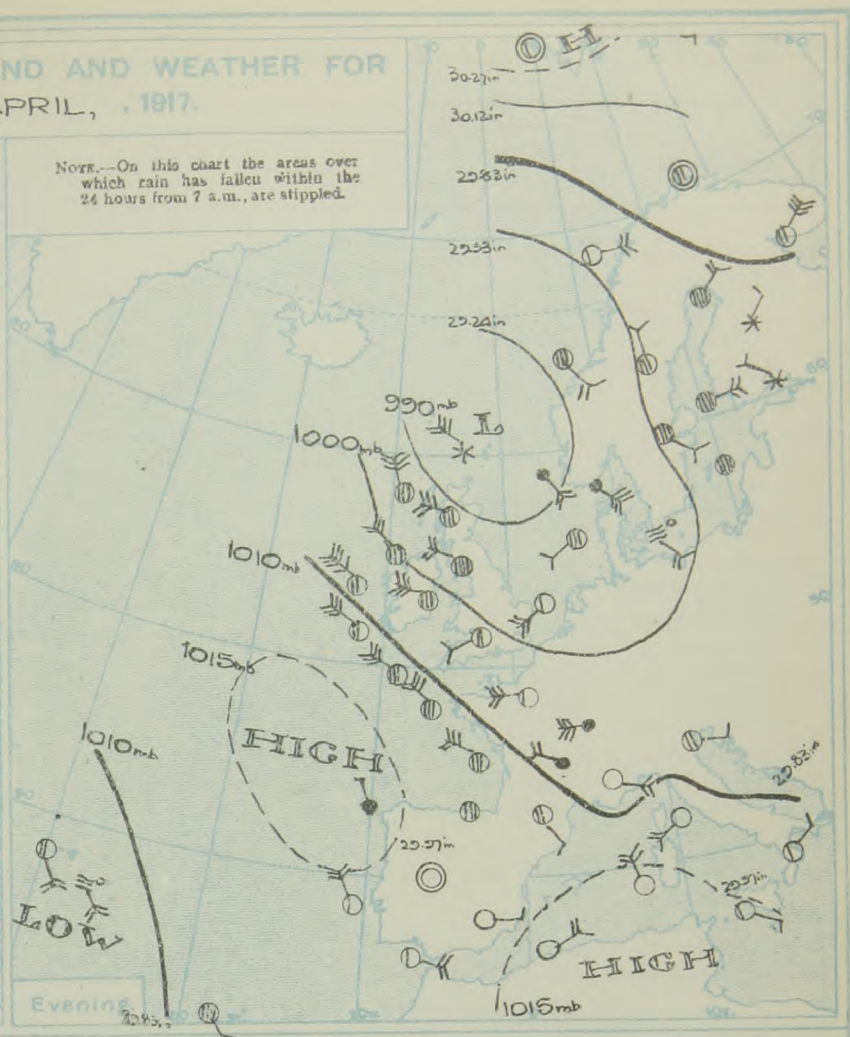
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ⬤ overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. T, thunder. ⚡, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

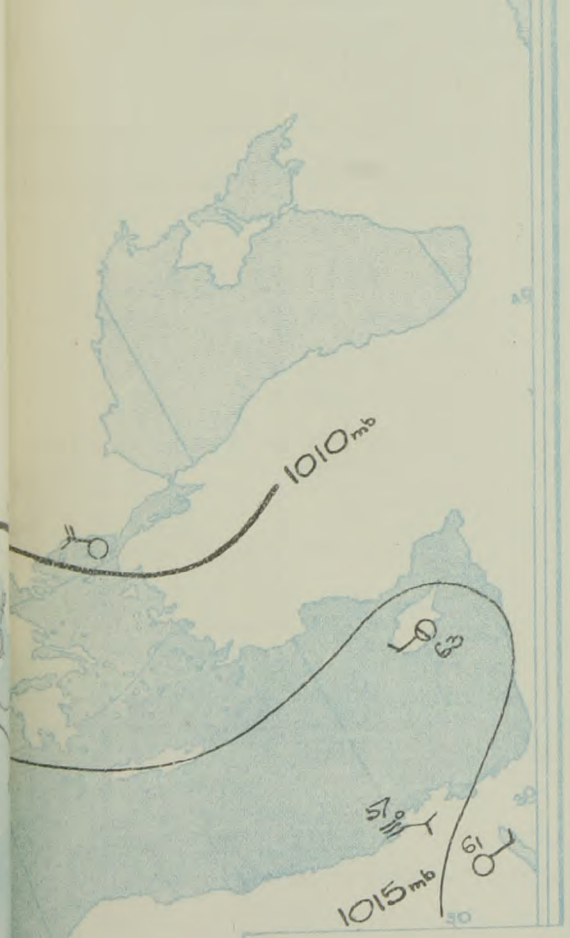
BAROMETER, WIND AND WEATHER FOR 9TH APRIL, 1917.



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



FORECASTS. NOON TUESDAY TO NOON WEDNESDAY.



0	a, b	
1		
2	a, b	
3		
4	a, b, c	
5		Fresh or strong winds between West and North-West; squally weather, with snow or hail showers,
6	a, b	
7	a, b	improving slowly; cold.
8	a, b	
9	a, b	
10	a, b	
11		Fresh Westerly or North-Westerly winds; rather rough sea; fair weather, but some showers.

FURTHER OUTLOOK.

20 [EGWE]

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

Issue No. 20228

DAILY WEATHER REPORT.

Tuesday 10th April 1917.

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 ...	1014·3	25	NNW	2	b									*	
	Gorki	999·5	32	–	0	r*	999·5	0 *	34		S	1	0	S	*	30
	Velieki Luki ...														*	
	Hangö	1007·9	32	–	0	c	1004·7	−1	30		NNE	2	0	–	*	19
	Riga	1003·0	36	ENE	1	0									*	
	Petrograd ...	1004·7	36	NE	4	r	1001·5	−1	34		NE	3	r	–	36	34
	Moscow														*	
	Kiev						1010·0	+2	36		W	4	c	–	*	36
	Kharkov ...						1013·2	+4	41		WSW	2	0	3	*	39
	Kishinev ...	1008·7	50	–	0	b	1011·3	+2	41		–	0	b	1	*	37
	Elisabetgrad ...	1009·3	39	WNW	1	b	1013·0	+2	37		NNW	2	b	2	*	34
	Nicolaiev ...	1012·2	48	–	0	b	1012·8	*	45		–	0	b	3	*	41
	Odessa	1010·0	54	SSW	2	b	1013·0	+1	48		SSE	1	b	–	*	46
	Tarkhankout...						1016·2	*	52		SE	4	bc	–	*	48
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1003·7	45	ENE	2	r	1003·4	*	43		N	2	r		50	43
	Pesaro	1004·1	48	–	0	b	1006·2	*	45		–	0	bc	–	64	52
	Rome	1007·5	52	SW	1	c	1007·1	*	54		SW	2	bc	12	61	48
	Viesti	1005·0	61	SE	2	b	1006·9	*	55		WSW	2	c	–	64	52
	Brindisi	1007·5	61	SE	6	0	1008·3	*	59		SE	4	0	–	68	50
	Cagliari	1009·4	70	W	5	bc	1012·3	*	59		NW	3	c	–	68	48
	Palermo	1008·5	59	ESE	1	bc	1010·7	*	57		SW	3	bc	–	72	48
	Tripoli							*								
	Algiers	1011·7	55	SW	1	0	1014·6	+1	54		WNW	1	b	–	72	52
SWEDEN.	Hernösand ...						1006·7	*	18		–	0	b	*	*	*
	Stockholm ...						1004·7	*	27		E	2	0	*	*	*
	Wisby						1002·3	*	32		NW	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 ...						
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	3	1	43	32	ops.	bc.	5·4
Scotland. Banff	.	Trace	39	33	bcp.o	bcph	5·3
Scotland. Montrose	.	.	47	33	b	b	4·5
Scotland. Carnoustie	*	*	[illegible]	[illegible]			[illegible]
Scotland. St. Andrews...	–	–	42	32	b	c	5·8
Eng. N.E. Harrogate	3	–	43	31	c.bc.c	c.bc.c	6·7
Eng. N.E. Skegness	–	Trace	42	32	o	osr.bc	5·2
Eng. N.W. Morecambe							
Eng. N.W. Southport	7	1	41	33	chsu.c	o c.bc	7·0
Midlands. Leamington Spa							
Midlands. Malvern							
Midlands. Ross-on-Wye							
Wales. Rhyl							
Wales. Colwyn Bay...	*	*	42	34	cp	cps	2·3
Wales. Llandudno	*	*					
Wales. Aberystwyth	*	*	41	35	or.c	c.c.o.	3·0
Wales. 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							
England. E. Felixstowe	1	1	42	35	bcqs	bcqs	5·6
England. E. Walton-on-Naze							
England. E. Southend-on-Sea	1	1	45	33	bc.cos	bc.c.os	4·2
England, S.E. Margate			[illegible]				
England, S.E. Ramsgate							
England, S.E. Hastings	4	–	45	36	or.b.cb	bc	9·7
England, S.E. Eastbourne	3	Trace	45	37	bcf	bc.os.c	7·5
England, S.E. Seaford	*	*					
England, S.E. Brighton	–	–	45	32	b	bc	7·6
England, S.E. Worthing	4	–	48	36	b	b	9·4
England, S.E. Littlehampton							
England, S.E. Bognor	*	*	46	30	bc	bc	8·6
England, S.E. Bournemouth	1	–	48	35	b	b	10·0
England. S.W. Weymouth...	*	*					
England. S.W. Torquay	1	1	47	36	b bc.bh	b bc.bh	11·1
England. S.W. Paignton	*	*					
England. S.W. Penzance							
England. S.W. Newquay	1	1	44	35	bphq	bphq	8·5
England. S.W. Bude							
England. S.W. Ilfracombe							
England. S.W. Weston-s-Mare	2	Trace	45	37	bc.bh	bps.c.	6·5

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

10th 11 April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6·8	11·54	6·40
	5·6	11·54	6·41
Greenwich	5·18	12·1	6·44
	5·16	12·1	6·46
Wick	5·17	12·13	7·9
	5·14	12·13	7·11
Valencia	5·58	12·42	7·26
	5·56	12·42	7·28

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in the North and North-West. Snow and hail showers were very general; but fair sunshine measurements were recorded, up to 10 hours at Bournemouth and 11 hours at Torquay.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 101. Wednesday 11th APRIL.

	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 ...	996·9	34	NNW	4	c	1000·1	+1	38	+8	NE	1	E	c	1	2	38	31	bcps	bcq	c	*
	Deerness (Orkney)	999·6	31	NW	5	bcqp	1000·0	*	36	+7	NNE	3	E	c	2	3	36	30	bcps.c	cps.bc	bc.ops.c	5·5
	Stornoway ...	1000·3	31	E	3	bc	1002·4	-1	31	+4	W	1	–	bcps	1	3	37	23	bcps	bc	bcps	6·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1002·3	31	WSW	3	c	997·7	0	29	+2	ENE	4	–	og	*	Trace	36	26	b.bc	bc.csp	c.cq	8·9
	Eskdalemuir ...	1003·4	27	SW	3	csp	995·4	-1	27	+2	NE	5	–	os	*	3	36	21	b.bch.c	c.bcsp	os.oos	9·2
	Malin Head ...	995·7	28	S	3	omsx	997·5	+5	29	+1	E	6	E	cqx	6	3	33	27	cps	oms.c	bcqx	2·0
	Blacksod Point	997·1	36	SSW	6	cm	996·1	–	?31	-1	NE	5	–	om	5	10	36	27	omqph	oms	omps	*
	Valencia ...	1005·2	43	SW	6	o	992·3	-3	35	-1	NNW	7	W	cpqh	6	7	45	32	bcps	bc.oph	cqs	5·5
	Roche's Point	1008·5	39	WSW	4	p	990·3	*	35	+1	NW	3	NW	bc	3	3	43	33	csp	ospr	cps.bc	*
	Birr Castle ...	998·1	35	S	3	p	994·5	*	27	-2	E	1	–	s	*	5	40	26	c.oms	cp.ors	os	4·3
	Donaghadee ...	1002·6	32	SW	2	og	992·5	+6	31	+2	E	4	E	cmq	4	5	35	25	bcps	bcps	oqs.em	*
	Liverpool (Bidston)	1005·9	34	WSW	3	bc	994·5	+2	31	-2	WSW	2	–	b	2	7	36	30	bcps	bch	os	6·7
	Holyhead ...	1005·2	39	WSW	5	og	993·9	0	33	-1	W	3	–	og	3	13	39	30	cps	cps.o	oncps	6·3
	Pembroke (St. Ann's)	1010·0	38	SW	5	c	996·1	-3	36	+2	SW	5	SW	cqp	5	5	40	31	bcq	bcqps	cqpn	6·8
	Scilly (St. Mary's)	1014·6	42	WNW	5	c	999·5	-5	42	+4	WNW	6	W	cq	6	7	45	37	cqp	bc.c	cqs.qp	7·5
	Falmouth ...	1013·9	40	WSW	3	b	998·5	-2	37	+1	W	3	–	bc	*	8	44	33	bcq	bcq.bc	cqrh.c	9·5
	Jersey (St. Aubin)	1014·9	42	WNW	4	b	1002·5	*	42	+3	SW	6	–	ogu	4	7	45	37	qsp.b	bsp.b	b.ogu	11·0
	Portland Bill ...	1012·1	40	WNW	5	c	998·3	+1	38	+2	SW	5	SW	c	5	8	42	33	bc.cps	bc.c	crs	*
	Dungeness ...	1009·9	32	W	4	sq	1000·8	-8	39	+4	SSW	8	S	cq	6	1	46	31	cqs	cqs	bc.cq	*
	Dover	1010·0	36	W	4	b	1002·2	-4	37	+6	S	8	S	s	6	1	45	30	bcps.c	bcps.b	b.ops	7·3
	Wick	1000·5	32	NNW	4	bc	999·9	-1	33	0	NW	4	–	o	0	0·2	33	24	osp.bc	bcmq	b.omps	*
	Nairn	1001·2	32	NW	1	bc	1001·7	*	25	-3	–	0	–	ou	1	0·3	33	19	bcsp	bc	bcx	9·8
	Aberdeen	1000·7	34	NW	4	b	1000·8	0	29	0	NW	3	–	o	2	0·1	35	24	bcqsp	bcq.b	b.o	6·7
	Leith	1001·3	34	W	2	c	997·5	-1	34	+5	E	4	E	c	4	0·1	37	28	c.bcm.c	c.osp.c	cu.bu.c	*
	Tynemouth ...	1002·5	34	NW	1	b	994·0	-6	32	+4	E	5	–	omqs	5	2	37	27	bcq	bcq	omqs	*
	Spurn Head ...	1004·6	35	N	4	cq	993·8	-6	33	+1	S	7	–	oqs	7	3	39	30	ba	bq	bc	5·7
	Yarmouth ...	1005·8	33	NNW	3	bc	999·3	-10	36	+5	SSW	7	–	ompq	6	2	40	29	bcmqps	oqs.bc	bcmq	6·0
	Clacton-on-Sea	1008·7	36	WNW	4	bc	1000·1	-7	38	+5	SSE	6	S	o	5	0·3	41	32	bc.cqs	bc	bc.bco	7·7
	Nottingham ...	1006·8	35	W	4	b	995·0	*	35	+6	SW	3	W	c	*	2	38	28	s.o.bc	cps.bc	bcps	7·6
	Benson (Oxon.) ...	1010·1	37	WNW	3	b	996·2	-2	34	+3	S	3	–	od	*	5	39	29	bcs	pqs	orsq	*
	Sth Farnborough	1010·0	37	WNW	3	c	997·7	-4	33	+2	W	2	–	os	*	4	43	31	b.qpsh.bc	bc.o ps	c.bc.ors	7·5
	London (Kew Obsy.)	1010·1	34	W	3	bc	997·0	+7	38	+5	WSW	6	–	orm	*	1	48	32	ops.oqps	c.cs bc	b.orq.on	8·1
NORTHERN EUROPE.	Spitsbergen ...	1034·4	-19	SE	1	b	1033·2	0	-24	-4	N	1	*	b	*	*	-11	-33				
	Vardö	1020·0	27	E	2	o	1020·0	0	25	-2	E	1	E	o	3	*	27	19				
	Bodö	1007·3	34	E	4	b	1006·0	0	34	+4	E	1	–	b	1	–	34	28				
	Christiansund ...	997·5	41	SSE	2	b	999·4	+2	37	-4	–	0	–	b	3	–	48	34				
	Skudesnaes ...	994·7	36	SSE	2	bc	999·0	+3	36	0	E	1	–	b	2	–	39	30				
	Færder (X'tania Fjord)	996·0	34	NNW	2	m	999·4	+2	32	-2	N	2	–	s	2	?	34	30				
	The Scaw (Skagen)	996·2	36	–	0	o	1000·2	+3	36	+2	W	3	–	b	3	8	37	32				
	Blaavands Huk	999·0	36	WNW	3	c	1005·1	+4	36	0	W	4	–	c	5	1	39	32				
	Copenhagen ...	997·1	37	SSW	2	c	1005·5	+6	36	0	W	3	–	b	*	Trace	41	32				
	Bornholm ...	998·1	34	SW	5	m	1003·8	+5	32	0	W	7	W	bc	2	2	37	30				
FRANCE, &c.	The Helder ...	1005·1	34	W	5	o	1006·4	-2	32	0	S	4	–	o	2	5	36	28				
	C. Gris Nez ...	1009·3	36	W	7	bc	1003·3	-6	36	+2	S	6	*	o	6	1	39	32				
	La Hève	1013·2	36	WNW	5	b	1006·3	*	34	+3	SSW	6	*	bc	4	–	43	36				
	Brest (St. Mathieu)	1017·7	43	NW	4	bc	1003·9	+8	45	-4	W	6	*	o	?	1	?	?				
	Rochefort (Ile d'Aix)	1017·3	45	WNW	4	c	1012·7	-2	43	-2	SW	4	*	o	*	Trace	50	41				
	Biarritz												*									
	Paris	1014·1	39	W	3	b	1011·0	-3	34	-2	S	2	–	o	*	Trace	46	28				
	Belfort	1015·8	32	W	6	s	1016·6	*	34	0	–	0	*	m	*	2	38	30				
	Lyons	1015·8	45	–	0	o	1015·3	*	39	+2	–	0	*	b	*	–	51	35				
	Nice	1007·4	54	WSW	3	b	1013·5	+3	48	0	–	0	*	bc	2	–	70	41				
	Perpignan ...	1016·3	54	NNE	2	o	1016·0	-2	46	-4	–	0	–	o	*	Trace	57	32				
	Sanguinaire ...	*	55	NW	3	b	*	*	50	-2	E	3	*	bc	4	–	57	49				
SOUTHERN STATIONS.	Corunna	1019·3	52	N	5	b	1017·1	-1	43	-3	SW	2	–	o	2	?	54	37				
	Madrid	1014·1	59	E	1	b	1016·8	+2	45	0	–	0	–	b	*	–	61	39				
	Lisbon	1014·3	61	NW	3	b	1016·2	+1	50	+2	NNW	3	–	b	2	–	66	48				
	Azores (Horta) ...	1008·2	*	ESE	5	klr	1009·6	0	57	0	NNE	4	*	c	3	5	63	57				
	Madeira	1013·7	63	SE	4	o	1015·7	0	59	+2	SE	3	–	o	3	2	65	59				
	Gibraltar	1017·3	57	SE	4	b	1016·6	*	56	-1	SE	4	*	b	3	–	62	54				
	Malta	*	*	*	*	*	1016·7	+1	59		E	3	–	o	2	–	61	55				
	Limassol	*	*	*	*	*	1015·0	+1	63	0	–	0	–	b	0	–	73	48				
	Alexandria ...	1015·4	66	NE	2	o	1017·6	+3	66	+9	NE	3	NE	o	1	–	82	55				
	Cairo (Helwan) ...	1013·0	78	NE	4	b	1015·4	+3	64	+3	NW	2	–	b	*	–	97	55				

GALES
Duration and Extreme Force in British Islands.

Valencia
Squall; W; 8 at 4h., 11th.

Scilly
Squall; W, 8 at 1h., 11th.

Portland Bill
Squall; SW, 8 at 5h., 11th.

Dungeness
SSW, 8 at 5h., 11th.

Aberdeen
Gust; WNW, 18 m/s at 11h., 10th.

Spurn Head
Gust: 24 m/s at 5h., 11th.

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)	59	97	6·7	42	31	25	3	c.bs	osq	bcsq.o
CITY (Bunhill Row)	*	*	7·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	63	99	7·5	44	34	30	4	os.bc	bc	rs
CAMDEN SQ. (British Rainfall) ..	62	100	7·3	43	30	27	5	bc	bc	*
HAMPSTEAD (Reservoir)	*	100	7·9	39	28	19	5	bcs	bx	oxsf
S. KENSINGTON (Museum Grounds)	*	92	7·2	43	33	?	5	b.bcs	bc	os.od
RICHMOND PARK	*	*	8·3	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1469	30.4	78.5

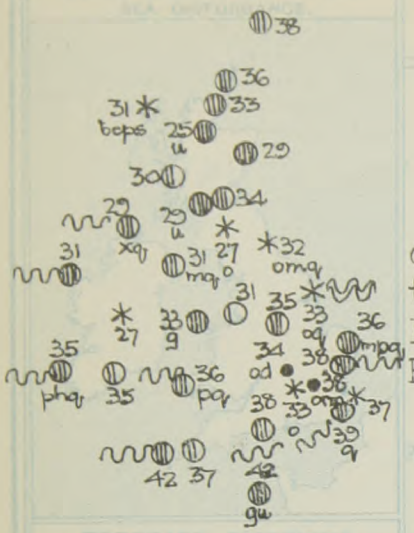
Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

THE MORNING OF WEDNESDAY, 11TH APRIL, 1917.

GENERAL INFERENCE.

The depression centred over the Irish Sea is likely to move across the British Isles in an Esaterly or South Easterly direction.



FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

HIGH

1030mb 1025mb 1020mb 1015mb 1010mb

30·42in 30·21in 30·01in 29·77in 29·53in 29·66in

Barometer rising decidedly

1005mb 1000mb 995mb

Barometer 32° rising

1000mb 1005mb

Barometer 32° rising

29·38in 29·53in 29·53in

Barometer falling

40° 50°

1010mb 1015mb

29·77in 29·77in

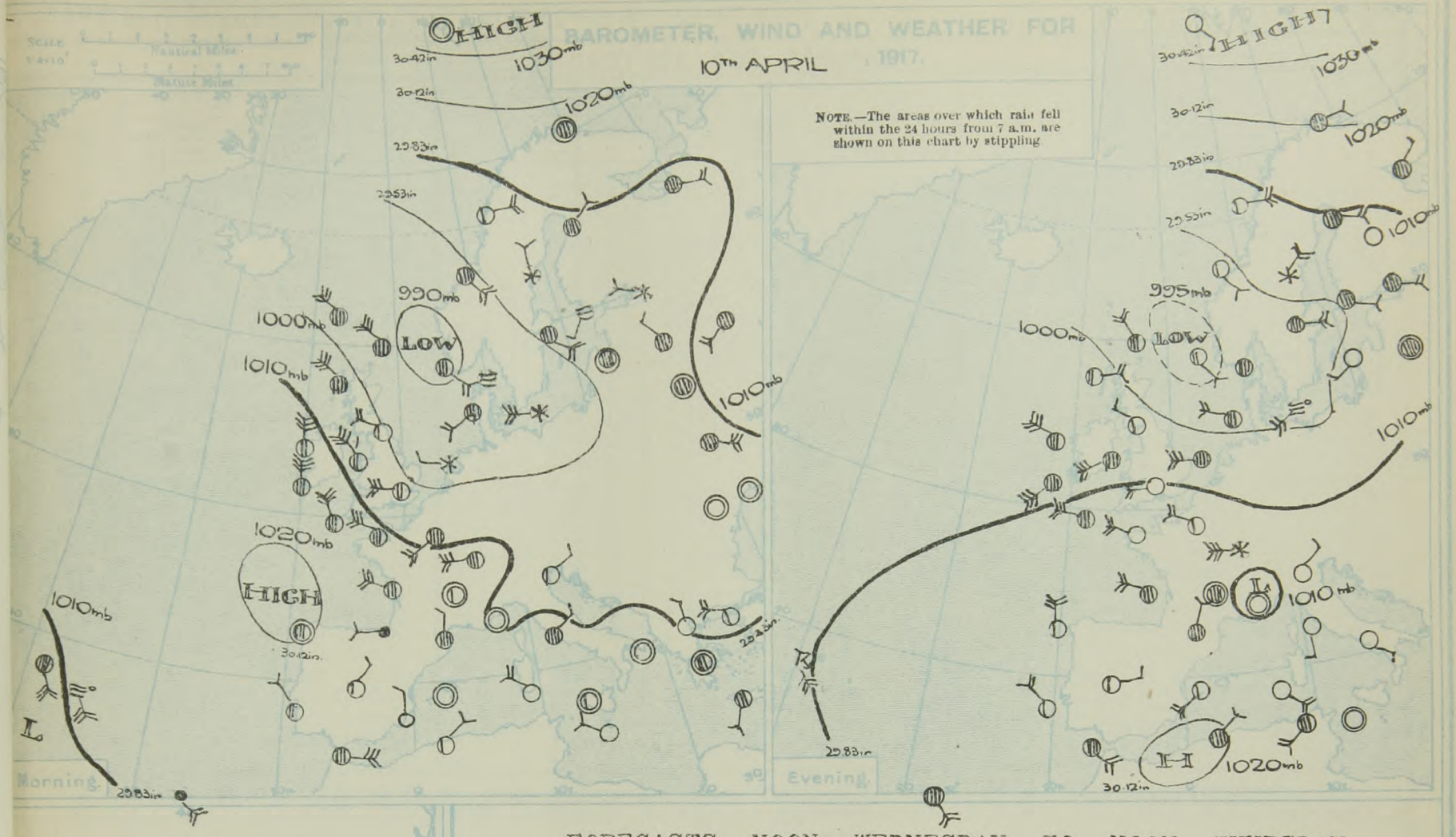
LOW

Normal Temperature of the Sea.

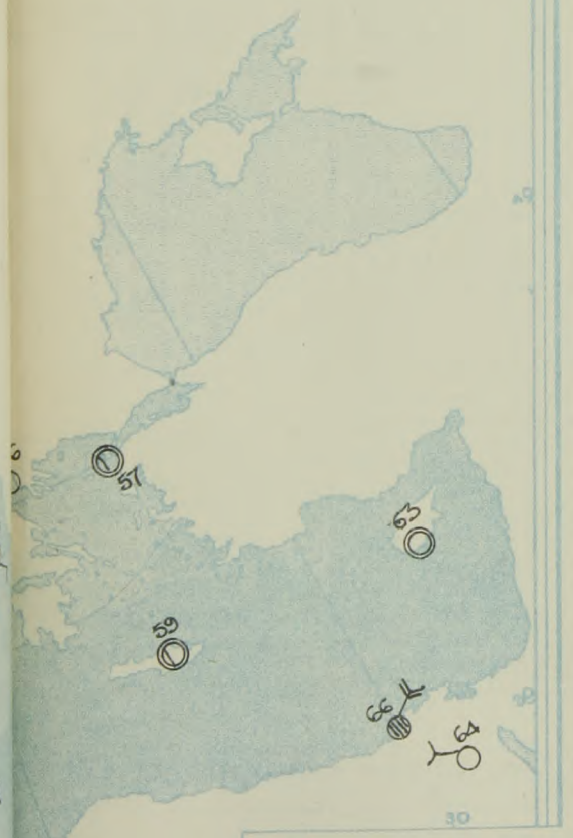
Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 10TH APRIL 1917.



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



FORECASTS NOON WEDNESDAY TO NOON THURSDAY.

0{a b} 1 2{a b}

Fresh North-Easterly winds; unsettled, some snow showers; cold.

3 4{a b c} 5

Strong South-Westerly winds to gales, veering West or North-West later; dull, some rain or snow; improving; cold.

6{a b} 7{a b}

Strong North-Easterly winds; unsettled weather with snow showers; cold.

8{a b}

Strong or high North-Westerly to Northerly winds; some snow showers, fair intervals; cold.

9{a b} 10{a b}

Strong or high Northerly winds; some snow showers; cold.

11

Strong or high Westerly winds; rough sea; showery.

FURTHER OUTLOOK.

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

Issue No. 20,229 — DAILY WEATHER REPORT. — Wednesday 11th April 1917.

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	1010·6	30	NE	5	bc	1008·0	−2	25	·	E	3	o	−	*	23
	Gorki	1009·5	36	−	o	o	1009·5	*	32	−2	−	o	o	−	*	32
	Velieki Luki						1009·6	*	36	·	SSE	1	o	1	*	34
	Hangö	1003·9	32	−	o	o	1005·7	+2	32	+2	−	o	f	−	*	28
	Riga	1006·3	34	−	o	o	1006·0	o	34	·	−	o	o	2	*	32
	Petrograd	1002·7	32	NW	2	s	1006·7	+3	32	−2	W	2	s	1	36	30
	Moscow	1008·8	39	WSW	3	o	1013·9	+3	37	·	SW	3	o	−	*	36
	Kiev	1009·2	50	E	3	o	1004·2	−3	46	+10	SE	5	o	−	*	36
	Kharkov	1015·0	48	SW	1	b	1014·0	o	45	+4	SE	2	o	−	*	41
	Kishinev	1007·4	66	SSE	1	bc									*	
	Elisabetgrad	1010·9	52	SE	3	bc	1007·5	−1	48	+11	ESE	2	c	−	*	37
	Nicolaiev	1010·6	52	SSW	2	b	1004·8	*	52	+7	SE	5	o	−	*	43
	Odessa	1009·9	50	S	5	b	1004·8	−2	52	+4	SSW	4	o	−	*	48
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1006·6	48	E	1	bc	1007·9	*	46	+3	ENE	1	b	−	54	43
	Pesaro	1008·7	46	−	o	b	1009·7	*	54	+9	S	2	b	−	54	45
	Rome	1012·5	50	WSW	3	b	1014·1	*	52	−2	ENE	1	o	−	59	48
	Viesti	1010·6	55	N	1	b	1012·7	*	54	−1	—	o	b	−	64	48
	Brindisi	1010·1	54	ENE	1	b	1013·8	*	46	−13	—	o	b	−	64	46
	Cagliari	1016·3	59	NNW	4	b	1016·3	*	59	o	NW	3	b	−	68	50
	Palermo	1015·7	55	ESE	1	b	1017·0	*	57	o	—	o	b	−	63	41
	Tripoli						1017·8	*	61	·	ENE	1	b	−	70	50
	Algiers	1015·9	55	ENE	3	b	1014·3	+1	54	o	NE	2	b	−	59	50
SWEDEN.	Hernösand	1004·2	27	N	2	c	1005·5	*	25	+7	N	2	s	*	*	*
	Stockholm	1001·2	34	SE	2	o	1001·0	*	32	+5	SE	2	o	*	*	*
	Wisby	1001·1	34	−	o	b	999·9	*	37	+5	SSE	4	b	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Morning Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Force 0–12.	Weath
		°F	°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.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	−	1	35	27	eps	bc	6·9
	Banff	1	1	35	27	epsh	psh. bc	4·9
	Montrose	−	−	42	27	b	b	4·5
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	1	−	37	25	bc. b	bc. b	8·9
	Skegness	4	Trace	40	25	os. bc	bc	6·0
Eng. N.W.	Morecambe							
	Southport	Trace	Trace	38	33	clq. bc	bc. chs	7·2
Midlands.	Leamington Spa							
	Malvern	Trace	Trace	43	29	bcp	bcp	7·6
	Ross-on-Wye	1	−	42	28	bcs	bc	8·0
Wales.	Rhyl	1	1	37	27	s	s	5·2
	Colwyn Bay	*	*	38	31	eps	cs. bc	5·2
	Llandudno	*	*	40	30	c	c	5·8
	Aberystwyth	*	*	40	30	os. c	b. bc	9·0
	Tenby							
England. E.	Lowestoft	−	2	40	29	c. eps. c	c. eps	6·
	Felixstowe	−	Trace	41	32	bcqs	bcq	7·
	Walton-on-Naze							
	Southend-on-Sea	1	−	43	30	os. c. bc	bc. c	7·
England, S.E.	Margate	1	−	41	30	c. bc	bc. cq	5·
	Ramsgate							
	Hastings	1	−	42	31	os. bc. b	b. bc	8·
	Eastbourne	Trace	−	44	31	bc	bc. os. c	5·
	Seaford	*	*	44	30	bc	c. s	7·
	Brighton	Trace	Trace	44	31	bc	cs. o	6·
	Worthing	−	−	45	31	bcs. bc	bc. c. bc	6·
	Littlehampton	−	−	43	32	bc	bc	7·
	Bognor	*	*					
	Bournemouth	1	−	44	30	−	−	7·
England, S.W.	Weymouth	*	*	43	32	bcph	ph. bcq	6·
	Torquay	1	Trace	44	33	b	b. bc. c	9·
	Paignton	*	*					
	Penzance	1	−	45	35	bc	bc	8·
	Newquay	1	−	42	33	bc	b	8·
	Bude	1	−	47	?	bc	b	9·
	Ilfracombe	Trace	−	41	34	bc	bc	9·
	Weston-s-Mare	−	Trace	41	32	s. bc. b.	b. bcs. c	3·

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

11 & 12 April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	5·6	11·54	6·41
	5·4	11·54	6·43
Greenwich	5·16	12·1	6·46
	5·14	12·1	6·48
Wick	5·14	12·13	7·11
	5·11	12·13	7·14
Valencia	5·56	12·42	7·28
	5·54	12·42	7·30

NOTES ON YESTERDAY'S WEATHER.

Snow showers fell over the whole country and the weather remained very cold. Temperature did not exceed 33° throughout the day at Malin Head. Fairly good sunshine measurements were general.

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, 1917. No. 102 { Thursday 12th APRIL

	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 ...	1001·6	42	NE	3	bc	1001·4	0	38	0	ENE	4	–	c	3	3	45	37	bc	bc	cr	*
	Deerness (Orkney)	1002·0	39	NNW	3	o	1001·0	*	39	+3	NNE	5	NE	c	4	2	42	36	c	c.o	op.c	5·3
	Stornoway ...	1003·5	38	N	3	op	1004·9	+1	37	+6	NNE	6	–	cpq	5	7	43	30	bcps	bc.op	or.cpq	1·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	998·1	33	ENE	3	c	1000·6	+1	33	+4	W	1	–	osp	*	1	40	29	o.c	c.o.csp	csp.b.o	1·5
	Eskdalemuir ...	995·1	30	NNE	7	s	998·9	+3	31	+4	NNW	5	–	cs	*	17	31	26	os.osq	osq	osq.cs	0·0
	Malin Head ...	1000·3	38	NNE	5	bcq	1002·5	+1	38	+9	NNE	4	N	bcmq	3	–	39	29	bcq.r	bcq	bcm	8·0
	Blacksod Point	1003·6	37	N	3	omd	1006·4	–	38	+7	NNE	3	–	omp	3	4	38	30	bc	bc	omp.op	*
	Valencia ...	1004·6	39	N	6	b	1006·4	0	40	+5	N	3	–	c	3	1	42	33	b.bc.c	c.bc.b	bd.bc.o	7·6
	Roche's Point	1001·1	37	NNW	5	c	1005·5	*	36	+1	NNW	2	N	b	2	0·4	38	33	osp.c	o.c	c.bx	*
	Birr Castle ...	1001·0	33	N	2	c	1004·7	*	32	+5	S	1	–	bc	*	6	35	27	c.ops	cps	sp.bcx	2·8
	Donaghadee ...	996·8	36	NNE	5	omq	1001·4	+2	38	+7	NNE	4	N	bcz	3	3	39	30	osq	osq	cq.bcz	*
	Liverpool (Bidston)	993·4	35	WNW	3	b	999·0	+3	35	+4	NW	2	NW	o	2	1	38	31	b.bc	bc	os	6·2
	Holyhead ...	995·0	36	NNE	7	opsqg	1000·9	+3	37	+4	N	5	N	bc	5	Trace	41	32	o.c.bc	bc.cps	c.bc.c	3·5
	Pembroke (St. Ann's)	994·1	35	N	5	s	1002·9	+4	36	0	NW	4	NW	cq	4	2	40	32	cqps	cqps	cqps	2·7
	Scilly (St. Mary's)	1000·6	39	NW	8	oqp	1005·7	0	40	-2	NW	5	NW	bc	6	2	44	36	cqph	cqph	cph.bc	3·6
	Falmouth ...	997·1	36	WNW	7	cqph	1004·5	+2	36	-1	WNW	2	–	s	*	3	44	32	cqph	cqph	cqrhs	4·1
	Jersey (St. Aubin)	997·3	41	WSW	7	bq	1006·6	*	40	-2	WSW	5	–	o	4	7	46	34	guhsp	qpt	bc.op.o	1·8
	Portland Bill ...	989·2	41	WSW	6	cqp	1000·8	+3	40	+2	W	6	W	bcqp	5	2	42	35	bcqp	cqph	cqp	*
	Dungeness ...	995·3	40	SW	7	cq	998·3	+3	39	0	SW	8	SW	bc	7	8	41	34	cqp	cq	cqrsl	*
	Dover	996·7	38	S	6	o	999·6	+4	37	0	SW	6	SW	o	6	4	39	32	ors	opr	oshr.c	0·0
	Wick	1001·6	40	ENE	3	bc	1001·1	0	38	+5	NNE	3	–	o	4	4	41	33	omps.c	c.bc	omp	*
	Nairn	1001·1	40	NE	4	bc.mq	1001·4	*	37	+12	NNE	3	–	cu	3	4	43	24	bcps	bcq	qupr	7·1
	Aberdeen	1000·1	38	NE	3	b	999·1	+1	37	+8	NNW	3	N	c	3	1	42	29	o.bc.o	op.c.b	bc.osp	4·9
	Leith	997·1	37	E	5	c	998·8	0	36	+2	NW	3	–	o	4	–	38	33	cu.o.c	c.oquc	c.bq.co	*
	Tynemouth ...	993·8	39	SW	2	cm	994·7	0	37	+5	NNW	3	N	c	5	5	39	30	omqs	bcm	cmp	*
	Spurn Head ...	993·4	39	SE	5	oqu	993·5	+2	36	+3	NNW	5	–	bcq	4	1	45	33	bc	bc.oq	cr	5·0
	Yarmouth ...	995·2	39	S	5	c	993·9	+4	33	-3	W	4	–	oqm	3	6	42	32	omqr	cp	cqprs	0·0
	Clacton-on-Sea	995·2	40	S	4	c	997·4	+6	35	+3	W	4	W	bc	4	4	40	33	oqrc.o	o.c	oqrle	0·1
	Nottingham ...	992·3	33	E	2	s	997·0	*	34	-1	NW	4	NW	b	*	6	45	32	bc	c.os	os	4·8
	Benson (Oxon.) ...	990·9	40	SSE	4	o	997·6	+4	33	-1	SW	3	–	o	*	3	45	32	o	cptr	os.o	*
	Sth Farnborough	991·9	36	SSE	3	s	998·7	+3	34	+1	WSW	3	–	os	*	6	46	31	osr.bcd.c	ob.otl	osd.bcs	3·0
	London (Kew Obsy.)	992·5	38	S	4	c	998·8	+4	35	-3	WSW	4	–	o	*	10	45	32	orsm.om	or.c	c.ors.bc	3·8
NORTHERN EUROPE.	Spitsbergen ...	1028·7	-17	SE	2	c	1022·8	-2	-17	+7	SSE.	2	*	c	*	*	-6	-26				
	Vardö	1013·6	27	E	3	o	1002·3	-6	28	+3	NE	2	–	s	3	*	28	23				
	Bodö	1002·8	30	E	4	b	996·6	-4	30	-4	ESE	2	–	c	2	–	34	23				
	Christiansund ...	1001·0	41	W	2	b	1000·0	-1	37	0	W	2	–	c	3	1	43	37				
	Skudesnaes ...	1002·4	36	SE	3	b	999·2	-2	36	0	E	3	–	b	2	–	41	32				
	Færder (Chr'ania Fjord)	1002·6	36	WSW	4	bc	1002·6	-1	37	+5	SE	1	–	bc	1	2	37	30				
	The Scaw (Skagen)	1006·3	36	WSW	4	o	1000·8	-3	36	0	ESE	3	E	o	3	–	41	32				
	Blaavands Huk	1004·6	37	S	3	c	994·4	-4	36	0	SSW	3	–	r	4	3	39	32				
	Copenhagen ...	1010·2	37	SW	2	b	1000·7	-5	37	+1	SSE	4	–	o	*	–	41	34				
	Bornholm ...	1011·1	34	WSW	5	m	1003·6	-5	36	+4	S	6	–	m	1	–	36	30				
FRANCE, &c.	The Helder ...	998·7	39	S	3	r	999·4	0	36	+4	SW	4	–	r	3	12	41	34				
	C. Gris Nez ...	996·3	36	S	5	o	999·1	+6	39	+3	W	4	*	bc	8	4	39	36				
	La Hêve	996·6	38	SW	7	o	1004·3	*	37	0	SW	6	*	o	6	8	41	36				
	Brest (St. Mathieu)	1003·4	46	WNW	8	c	1006·8	-1	42	-3	W	3	*	o	4	3	48	41				
	Rochefort (Ile d'Aix)	1008·3	45	WNW	6	r	1011·0	+1	48	+5	WSW	3	*	c	*	3	52	43				
	Biarritz	1012·8	51	WNW	3	o	1011·8	-1	59	—	SW	1	*	c	3	–	57	46				
	Paris	1001·1	49	SSW	5	o	1009·0	+4	39		SSW	4	–	b	*	3	52	34				
	Belfort	1008·8	49	W	5	b	1014·8	*	34	0	W	6	*	s	*	1	55	33				
	Lyons	1009·0	53	SSE	3	b	1013·5	*	42	+3	–	0	*	o	*	4	60	42				
	Nice	1013·1	48	E	3	b	1015·2	+1	50	+2	–	0	*	o	2	–	59	41				
	Perpignan ...	1011·8	56	NE	2	o	1013·1	+1	49	+3	SW	1	SW	o	*	–	63	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1015·9	50	W	2	r	1013·9	0	50	-7	W	3	–	c	3	5	54	43				
	Madrid	1011·2	61	WSW	2	b	1013·2	+1	46	+1	SW	1	–	c	*	–	64	41				
	Lisbon	1015·1	57	NNW	4	b	1013·8	0	48	-2	N	1	–	o	2	–	63	46				
	Azores (Horta) ...	1010·1	*	ENE	5	o	1014·3	+1	55	-2	NE	7	*	o	4	–	61	47				
	Madeira	1014·7	61	SE	3	r	1009·6	-3	59	0	S	3	–	r	3	–	63	57				
	Gibraltar	1014·2	56	SE	2	b	1013·2	*	55	-1	E	2	*	c	2	–	63	53				
	Malta	*	*	*	*	*	1011·9	+1	61	+2	ENE	4	–	b	3	–	63	57				
	Limassol	*	*	*	*	*	1014·7	+1	66	+3	–	0	–	b	0	–	75	48				
	Alexandria ...	1017·5	63	NNE	2	bc	1018·2	+2	64	-2	NNE	2	N	c	1	–	72	59				
	Cairo (Helwan) ...	1014·8	73	NE	4	b	1016·3	+2	63	-1	NE	3	–	b	*	–	86	57				

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

GALES
Duration and Extreme Force in British Islands.

Scilly.
W to NW, 8: 11th.; 9h-20h
Extreme: W, 9: 11th at 14h.

Dungeness
SSW, 8; 11th., 5h-11h; and 12th., 4h

Falmouth
WNW, 8; 11th.; 18h-20h

Clacton
S, 8; 11th, 8h-10h.

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)	73	79	2·4	3	47	32	31	c	o.crs	cs.c
CITY (Bunhill Row)	*	*	3·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	70	74	2·7	3	46	33	31	osr.bc	dr	osrg
CAMDEN SQ. (British Rainfall) ..	79	78	3·3	4	46	32	28	o.c	bc.o	*
HAMPSTEAD (Reservoir)	*	79	2·6	4	43	29	26	c.osx	os	bcx.os
S. KENSINGTON (Museum Grounds)	*	88	2·8	46	33	28	6	od.os	o.c	bc.ors.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
857	17.6	84

Temperatures at Greenwich and Camden Square are from Glaisher screens

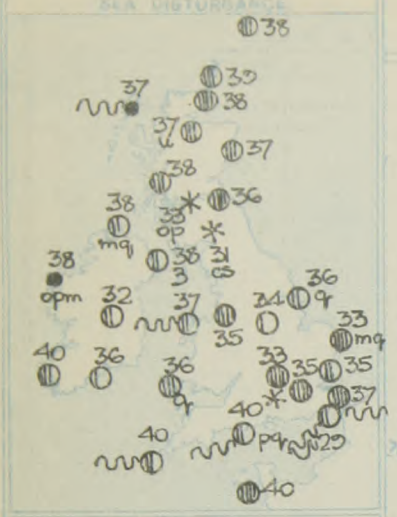
NOTE

St. Elmos fire was observed at Eskdalemuir; 11th at 21h.

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

THE MORNING OF THURSDAY, 12TH APRIL, 1917.

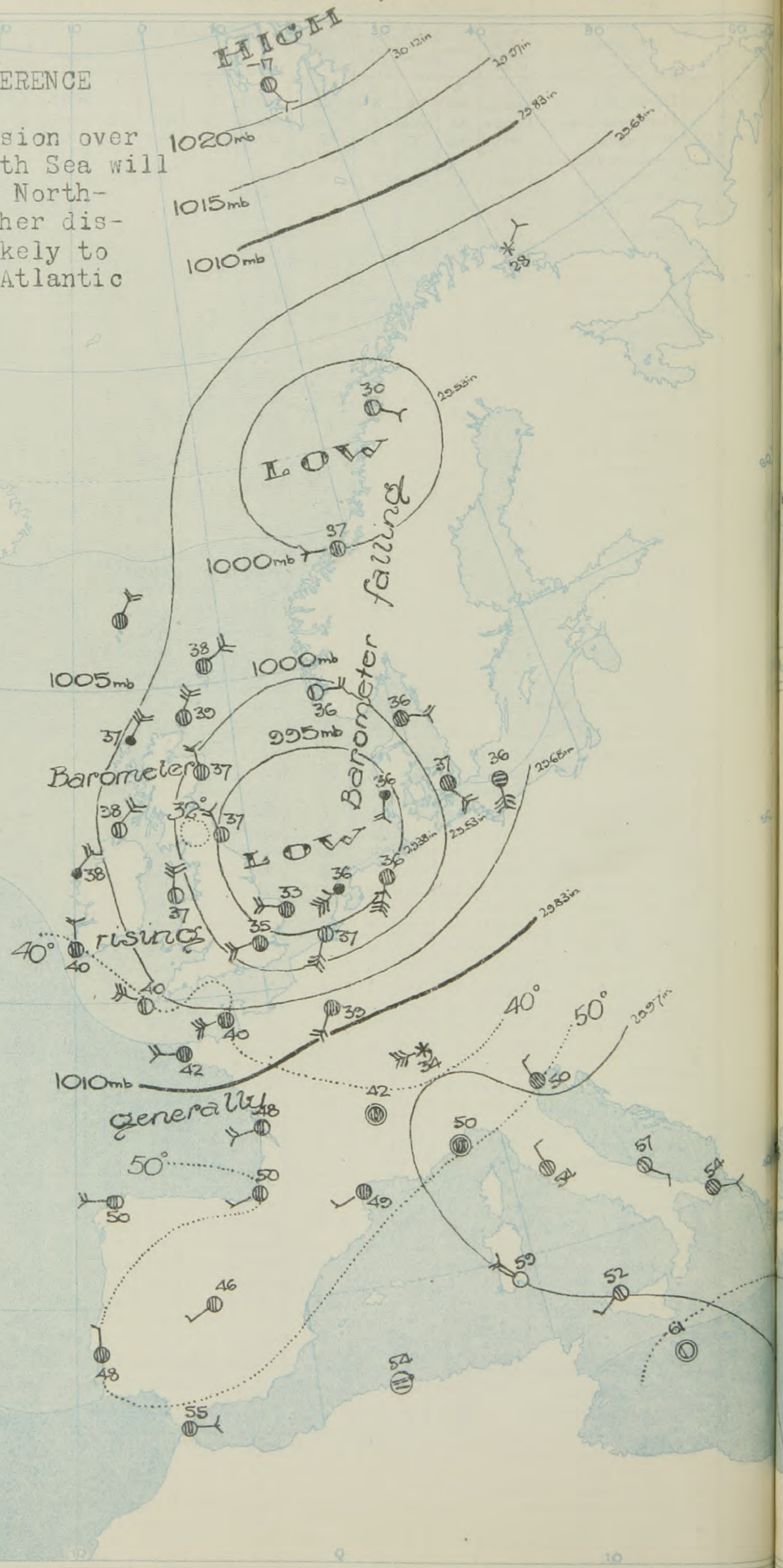
TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE

The depression over the Southern North Sea will pass away to the North-Eastward, but other disturbances are likely to appear from the Atlantic



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ~~~.

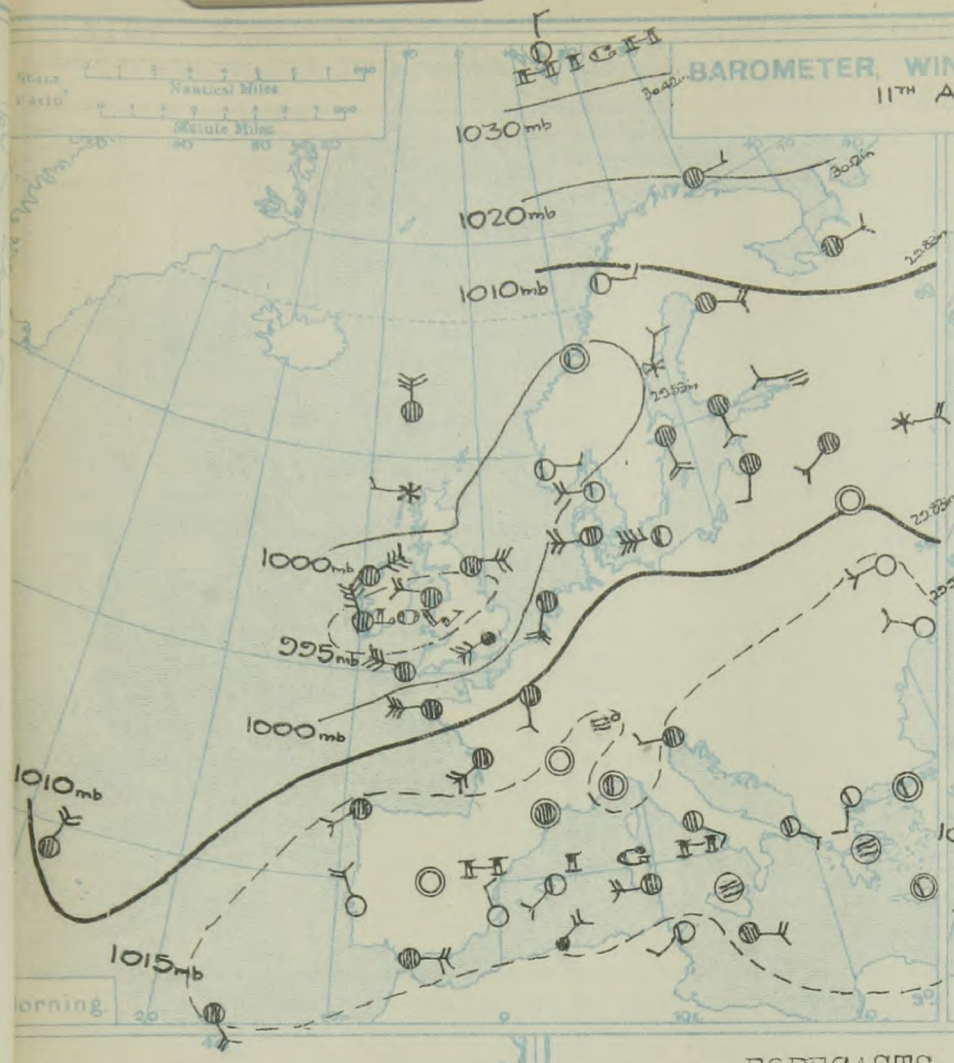
Normal Temperature of the Sea.

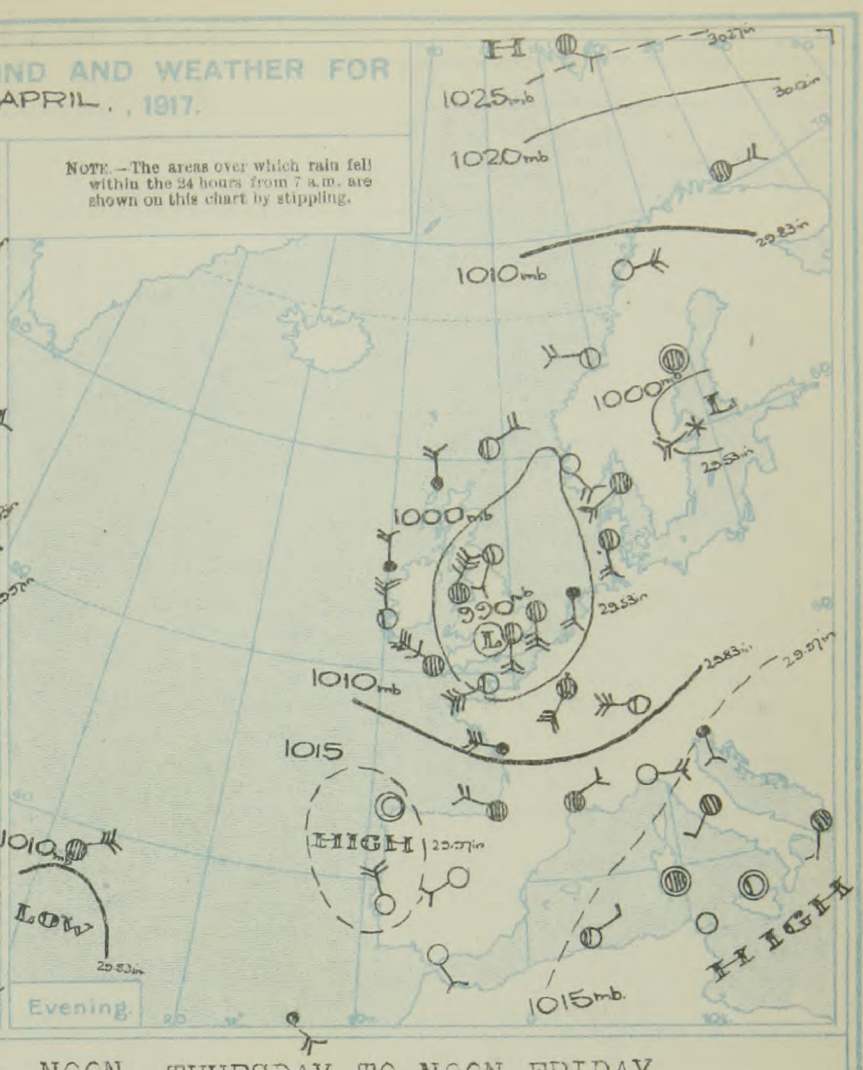
Under 40° | 40°-50° | 50°-60° | Above 60°

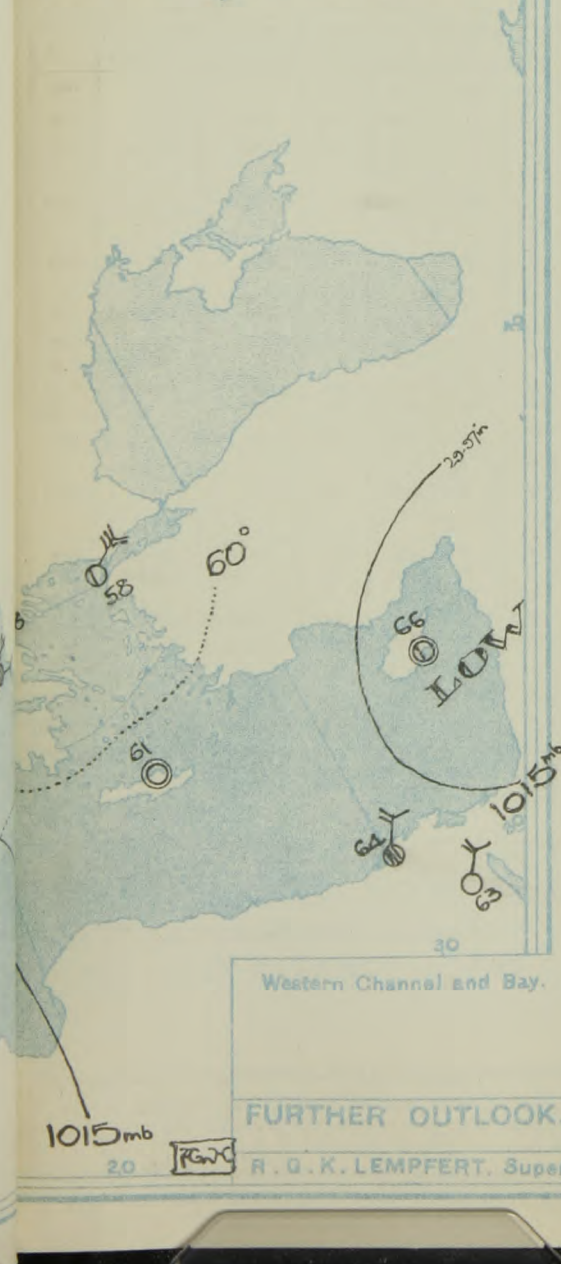
Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 11TH APRIL, , 1917.

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







FORECASTS NOON THURSDAY TO NOON FRIDAY

0 a, b
1
2 a, b

Fresh winds from between North & North-East, moderating later.
Some snow or sleet showers, fair intervals; cold

3
4 a, b, c
5

Strong West to North-Westerly winds moderating; changeable; rain or snow showers; cold

6 a, b

Same as Nos. 0, 1 and 2

7 a, b
8 a, b
9 a, b
10 a, b

Moderate North or North-Westerly winds, backing later: fair; showery; rather cold.

11

Moderate winds from between South-West and North-West; slight sea; cloudy.

FURTHER OUTLOOK.

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

Issue No. 20,230

DAILY WEATHER REPORT.

Thursday, 12th April 1917.

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 ...	1011·8	32	NE	1	o	1013·9	0	32	+7	E	2	o	-	*	25
	Gorki	1003·1	39	-	0	f	1009·9	+1	34	+2	-	0	b	3	*	30
	Velieki Luki ...	1003·4	34	-	0	o	1009·5	*	34	-2	SW	2	o	6	*	34
	Hangö	1003·5	34	E	2	o	1001·7	0	30	-2	SSE	2	o	1	*	23
	Riga	1004·4	34	SW	1	b	1004·6	0	34	0	S	1	o	1	*	30
	Petrograd ...	1007·3	37	E	3	o	1002·7	-1	34	+2	W	2	f	2	39	32
	Moscow	1012·6	41	SE	3	c	1006·9	+1	46	+8	SE	3	s	10	*	? 37
	Kiev	1006·9	46	NW	3	b	1015·7	+5	37	-9	W	2	b	7	*	36
	Kharkov ...	1004·7	? 41	SW	3	b	1007·3	+5	48	+3	WNW	4	o	?9	*	?
	Kishinev ...														*	
	Elisabetgrad ...						1015·7	+5	45	-3	WNW	3	b	1	*	41
	Nicolaiev ...	1005·1	55	NW	4	c	1017·0	*	46	-6	NW	2	b	-	*	45
	Odessa	1007·7	54	N	3	b	1017·6	+6	46	-6	NNW	2	b	-	*	45
	Tarkhankout...	1008·4	50	SW	2	b		*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1010·1	52	-	0	b	1015·5	*	50	+4	-	0	o	Trace	59	46
	Pesaro	1012·9	55	S	1	c	1016·3	*	54	0	-	0	bc	-	68	48
	Rome	1017·1	50	S	1	b	1017·5	*	54	+2	-	0	c	-	59	48
	Viesti	1016·2	54	-	0	b	1017·4	*	54	0	-	0	b	-	63	50
	Brindisi	1017·1	54	SE	1	b	1017·7	*	50	+4	SE	1	bc	-	63	46
	Cagliari	1015·0	61	SE	4	b	1017·7	*	59	0	W	3	c	6	68	52
	Palermo	1007·9	55	-	0	b	1017·4	*	52	-5	-	0	f	-	68	41
	Tripoli						1011·7	*	59	-2	S	1	b	-	72	57
	Algiers	1020·8	57	NE	2	o	1016·7	+2	54	0	NE	3	r	8	59	54
SWEDEN.	Hernösand ...	10064	28	NNE	4	s	1002·0	*	25	0	N	3	o	*	*	*
	Stockholm ...	9993	32	E	4	o	992·2	*	32	0	S	4	o	*	*	*
	Wisby	991·5	34	ESE	2	o	996·3	*	34	-3	SW	6	o	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn	1007·0	37		N	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	-	-	44	25	bc	b	7·9
	Banff	-	-	42	25	c.b	bc.c	5·3
	Montrose	-	-	41	21	b	b	9·7
	Carnoustie	*	*					
	St. Andrews...	-	-	39	22	cx	c	3·5
Eng. N.E.	Harrogate	9	0	38	27	bc.b	b.bc.c	9·4
	Skegness	1	1	43	31	os. bc	bc. o	5·7
Eng. N.W.	Morecambe	4	-	39	31	b	b.bc	10·4
	Southport	8	-	40	32	bc.b	b	7·4
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	3	1	44	33	bcp	c.bc.r	4·6
Wales.	Rhyl	9	-	38	30	s	c.bc	4·8
	Colwyn Bay...	*	*	40	32	c	c.o	7·6
	Llandudno	*	*	39	30	c	c	9·4
	Aberystwyth	*	*	37	31	s.o	c.o	1·8
	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	2	1	43	39	or.c	c	1·0
	Felixstowe	-	-	41	31	cq	bc.c	0·3
	Walton-on-Naze							
	Southend-on-Sea	1	Trace	43	?	or	o	0·0
England, S.E.	Margate	1	1	41	31	ors	o	0·0
	Ramsgate							
	Hastings	1	1	41	31	ors	o	0·0
	Eastbourne	1	2	42	32	mrs	oq	0·0
	Seaford	*	*	43	33	or	c	0·3
	Brighton	4	3	41	34	os.o	orsh	0·0
	Worthing	3	3	41	33	sr	chs.c	0·0
	Littlehampton	3	6	41	32	o	o	0·2
	Bognor	*	*					
	Bournemouth	6	3	45	33	c	c.cr	2·6
England, S.W.	Weymouth...	*	*	46	35	c.bcph	cp.rh	9·0
	Torquay	1	2	45	34	c.o.ch	c.oph	6·6
	Paignton	*	*					
	Penzance	8	3	45	35	o.cph	cph.o	3·5
	Newquay	6	2	45	33	pph.b	b.aph	5·0
	Bude	1	3	43	36	bcpt	ors	4·4
	Ilfracombe	10	6	43	33	bc.os	bc.os	3·8
	Weston-s-Mare	4	3	40	32	c.bc.b	ufirsh	3·6

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

12th & 13th April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5·4	11·54	6·43
	5·2	11·54	6·45
Greenwich	5·14	12·1	6·48
	5·12	12·1	6·50
Wick	5·11	12·13	7·14
	5·9	12·13	7·17
Valencia	5·51	12·42	7·30
	5·52	12·42	7·32

NOTES ON YESTERDAY'S WEATHER.

The cold showery type of weather was maintained. Eskdalemuir reported a maximum temperature of 31° and 17 mm of precipitation. Sunshine ranged up to 10·4 hours at Morecambe, but generally the measurements were not large.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No.103. Friday, 13th APRIL.

	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 ...	1001·1	39	NNE	4	bcq	996·6	-2	44	+6	N	2	–	bc	2	1	44	34	bc	bcpq	bc	*
	Deerness (Orkney)	1002·4	39	N	5	c	999·0	*	34	-5	W	3	NW	cps	2	1	44	33	c.bc	bc c	c.oc	6·6
	Stornoway ...	1006·5	40	N	5	bc	1001·0	-3	34	-3	NW	1	–	ops	1	4	43	33	cpq	bcpz	ops	4·3
	Castlebay (Barra Isd.)																					
	Glasgow ...	1003·4	43	NNW	2	c	1003·2	-2	35	+2	W	3	–	o	*	3	44	32	osp cp	o. crsp	c.bc.bc	2·4
	Eskdalemuir ...	1003·1	37	–	0	c	1003·6	-2	34	+3	WSW	3	–	o	*	1	41	22	cs.c bc	b bc.c	b.bcco	8·0
	Malin Head ...	1005·2	41	N	4	bcq	1005·2	-2	35	-3	SW	3	–	om	3	3	43	33	cq	bcq	omp	9·0
	Blacksod Point	1009·8	41	N	3	bc	1009·0	-3	39	+1	WNW	3	NW	cgp	3	2	44	35	cmp	bcp	bcpcp	*
	Valencia ...	1009·2	44	NNW	5	bc	1012·2	0	38	-2	NW	1	N	c	3	1	46	36	c.bcp	b.bcph.	b.bcc	7·7
	Roche's Point	1007·6	42	N	2	bc	1011·6	*	37	+1	NW	2	N	c	2	1	51	35	bc	cpd.c	bc.b	*
	Birr Castle ...	1007·1	44	NW	2	c	1009·7	*	33	+1	SW	1	–	c	*	–	47	29	c	c	cx	8·4
	Donaghadee ...	1004·0	44	NNW	4	bcz	1006·1	+1	36	-2	WNW	4	–	ogm	3	0·2	45	35	bcxq	bczp	bcm.om	*
	Liverpool (Bidston)	1003·8	38	N	2	b	1006·3	0	38	+3	WSW	3	W	o	3	0·3	40	34	b	bc	bc.c	7·6
	Holyhead ...	1004·4	40	N	3	bc	1007·2	0	40	+3	WNW	4	NW	og	3	1	44	37	bc.c	cps.pr	bc.b.o	6·7
	Pembroke (St. Ann's)	1006·1	41	W	3	bc	1009·9	+2	40	+4	WNW	2	NW	bc	2	3	43	36	cq.bc	bc	op.cbc	8·8
	Scilly (St. Mary's)	1008·3	45	NW	3	bc	1010·8	0	43	+3	NNW	2	NW	bc	3	–	48	39	bc	bc	bc	10·5
	Falmouth ...	1007·7	43	NW	3	b	1010·4	+1	36	0	N	1	–	b	*	Trace	47	35	pqs.bc	bc.b	bc	11·1
	Jersey (St. Aubin)	1006·9	44	WNW	3	bc	1011·4	*	42	+2	W	4	–	o	3	Trace	46	34	o.c	c.b.bc	bc.opo	4·2
	Portland Bill ...	1004·2	43	W	5	bc	1009·5	+1	41	+1	WNW	2	W	b	2	–	44	37	c.bc	c.bc	bc c.b	*
	Dungeness ...	1003·2	41	WSW	4	bc	1007·8	+2	36	-3	W	2	–	b	2	1	45	31	osp	bq	qs.bxz	*
	Dover	1002·6	41	SW	4	bc	1009·0	+2	35	-2	W	1	–	b	3	2	40	31	bc	bc	bc.bx	7·7
	Wick	1002·7	39	NNE	3	p	1001·0	-4	33	-5	NNW	1	–	o	3	3	42	32	op.cm	cmp o	omp	*
	Nairn	1003·5	40	–	0	c	1000·9	*	34	-3	–	0	–	ou	1	3	43	33	opu	prou	ps.op	1·2
	Aberdeen	1002·2	39	NW	2	c	1000·7	-2	35	-2	W	2	–	o	2	1	45	34	c bc	bc.cp	bcnsp	7·2
	Leith	1002·4	42	E	2	bc	1001·5	-1	37	+1	WSW	1	–	om	2	Trace	46	35	o.c.bc c	bc.b bc	bc.bps	*
	Tynemouth ...	1001·2	39	NNW	3	oq	1003·1	0	35	-2	WNW	2	W	cm	4	3	40	33	cmq ps	cm	cm	*
	Spurn Head ...	999·4	38	NNW	5	oqr	1005·0	+1	37	+1	WNW	4	–	cm	4	1	43	34	cqp	cqp	oqr	6·4
	Yarmouth ...	1000·6	40	WNW	2	bc	1005·3	+3	34	+1	WNW	2	–	bcmx	2	2	45	32	bcmp	o. bcm	bc.omp	2·5
	Clacton-on-Sea	1002·5	40	WNW	3	c	1008·0	+3	34	-1	WNW	3	–	b	1	–	45	31	bc.c	c.bc c	c.bc bx	8·6
	Nottingham ...	1002·3	40	WNW	3	bm	1006·8	*	32	-2	W	2	W	b	*	Trace	43	29	bcps	cg.bc	bc.c	4·9
	Benson (Oxon.) ...	1003·5	40	SW	3	c	1008·4	+2	32	-1	–	0	–	bx	*	1	44	27	os bc	c	b	*
	Sth Farnborough	1003·2	39	NNW	1	c	1008·6	+1	33	-1	W	2	–	bxz	*	1	45	27	o.bps oc	c.opc	bc or bxz	4·2
	London (Kew Obsy.)	1003·7	40	NW	1	c	1009·3	+2	34	-1	WSW	2	–	bmx	*	1	44	31	o.bm.cs bq	bc o.b.cd	q arms.bmx	4·9
NORTHERN EUROPE.	Spitsbergen ...	1019·6	-9	S	2	o	1019·0	0	-17		S	2	*	b	*	*	-6	-24				
	Vardö	997·1	27	–	0	o	994·8	-2	30		SE	2	–	o	3	*	36	23				
	Bodö	992·7	30	E	4	s	987·6	-1	30	0	E	2	–	o	2	?	34	23				
	Christiansund ...	996·7	37	NW	2	o	993·2	-1	36	-1	NW	3	–	c	3	4	41	37				
	Skudesnaes ...	995·9	39	–	0	b	994·3	0	37	+1	NNE	2	–	b	2	–	45	30				
	Færder (X'tania Fjord)	995·9	36	SE	2	o	995·2	0	36	-1	WSW	2	–	o	1	1	37	34				
	The Scaw (Skagen)	996·8	36	SSE	2	c	994·8	-1	36	0	SSE	3	–	m	3	5	37	27				
	Blaavands Huk	995·8	37	SSW	3	o	994·8	+2	36	0	WNW	4	–	o	4	1	41	32				
	Copenhagen ...	1000·2	39	WSW	3	o	997·2	-3	34	-3	SW	1	–	s	*	4	41	34				
	Bornholm ...	1003·6	36	SW	5	m	997·8	-7	37	+1	S	7	–	m	2	5	43	32				
FRANCE, &c.	The Helder ...	999·8	39	SSW	5	b	1004·0	+5	37	+1	W	5	–	b	4	1	41	32				
	C. Gris Nez ...	1003·5	40	WSW	4	o	1008·8	+2	38	-1	WNW	4	*	b	3	–	41	36				
	La Hève	1006·4	39	SW	4	c	1010·6	*	37	0	SW	4	*	b	3	–	41	36				
	Brest (St. Mathieu)	1010·3	43	W	4	c	1012·3	0	46	+4	SSW	2	*	bc	3	–	46	41				
	Rochefort (Ile d'Aix)	1010·2	45	NW	5	c	1014·3	0	46	-2	SE	2	*	b	*	1	52	39				
	Biarritz	1013·1	50	NW	2	r	1012·6	0	44	-6	E	1	*	o	2	2	57	41				
	Paris	1005·2	43	SW	2	o	1013·0	+2	37	-2	SW	2	–	b	*	Trace	55	28				
	Belfort	1011·0	41	–	0	r.	1016·4	*	35	+1	W	4	*	o	*	7	49	34				
	Lyons							*					*		*							
	Nice	1014·8	48	S	3	f	1011·4	-1	50	0	–	0	*	bc	2	8	59	43				
	Perpignan ...	1008·6	57	NE	2	bc	1011·6	+1	49	0	WNW	2	SW	o	*	1	63	32				
	Sanguinaire ...	1015·6	55	E	1	b	1007·8	*	55	—	E	2	*	o	3	–	61	46				
SOUTHERN STATIONS.	Corunna	1015·1	50	N	3	b	1013·8	0	45	-5	S	3	–	b	2	Trace	54	36				
	Madrid	1007·6	61	WSW	1	c	1007·6	-1	46	0	ENE	1	–	o	*	?	63	46				
	Lisbon	1010·7	54	NNW	4	bc	1007·8	-2	48	0	NNW	3	–	o	5	–	55	48				
	Azores (Horta) ...	1017·3	*	NE	7	o	1019·8	0	54	-1	NE	5	*	bc	2	–	59	54				
	Madeira	1006·4	63	W	4	o	1008·0	0	55	-4	N	2	SW	c	4	8	64	55				
	Gibraltar	1010·8	58	NW	3	o	1008·8	*	65	0	NW	3	*	c	3	–	64	55				
	Malta	*	*	*	*	*	?	?	59	-2	SSW	1	–	bc	1	–	66	55				
	Limassol	*	*	*	*	*	1014·6	+3	64	-2	–	0	–	b	0	–	72	48				
	Alexandria ...	1016·7	63	NNE	2	b	1016·3	-1	66	+2	–	0	NW	bc	0	–	72	59				
	Cairo (Helwan) ...	1015·0	72	N	3	b	1015·2	+1	63	0	NE	3	–	b	*	–	82	54				

RAINFALL.

Equivalents of Millimetres in Inches.

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

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	74	3·8	47	30	26	–	o	o c	or.o
CITY (Bunhill Row)	*	*	3·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	54	71	4·0	46	30	29	1.	bc.o	or	orsd.b
CAMDEN SQ. (British Rainfall) ..	60	77	5·3	47	29	26	Trace	o. bc	be.c	*
HAMPSTEAD (Reservoir)	*	66	4·1	43	28	16	3	c.bcs	bcx	bx
S. KENSINGTON (Museum Grounds)	*	77	3·4	47	32	26	1	o.c	ogsp.c	c. b
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

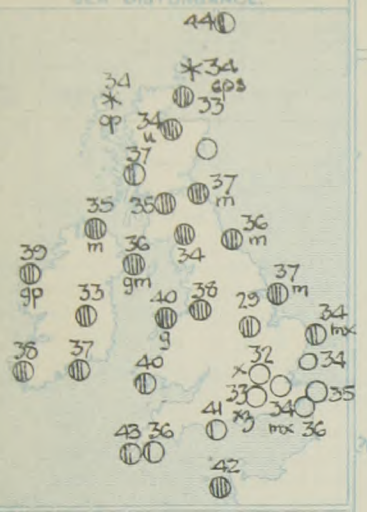
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
922	18.9	70.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

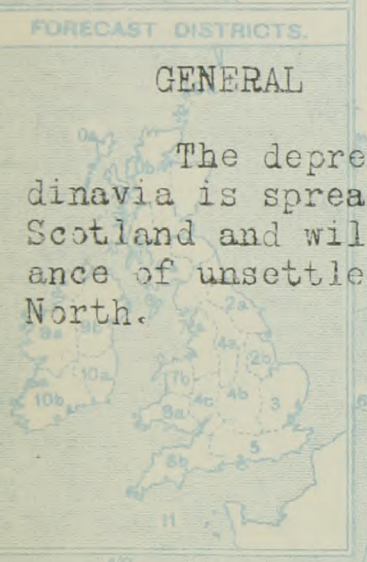
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 13TH APRIL, 1917.

TEMPERATURE WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.



GENERAL INFERENCE

The depression over Scandinavia is spreading back over Scotland and will cause a continuance of unsettled weather in the North.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ~~~.

HIGH 1020mb

1015mb

1010mb

1005mb

LOW 995mb 990mb

1000mb

falling Barometer

1005mb Barometer

1010mb

1015mb rising

HIGH 1015mb

HIGH 1020mb

generally

LOW

1010mb

1015mb

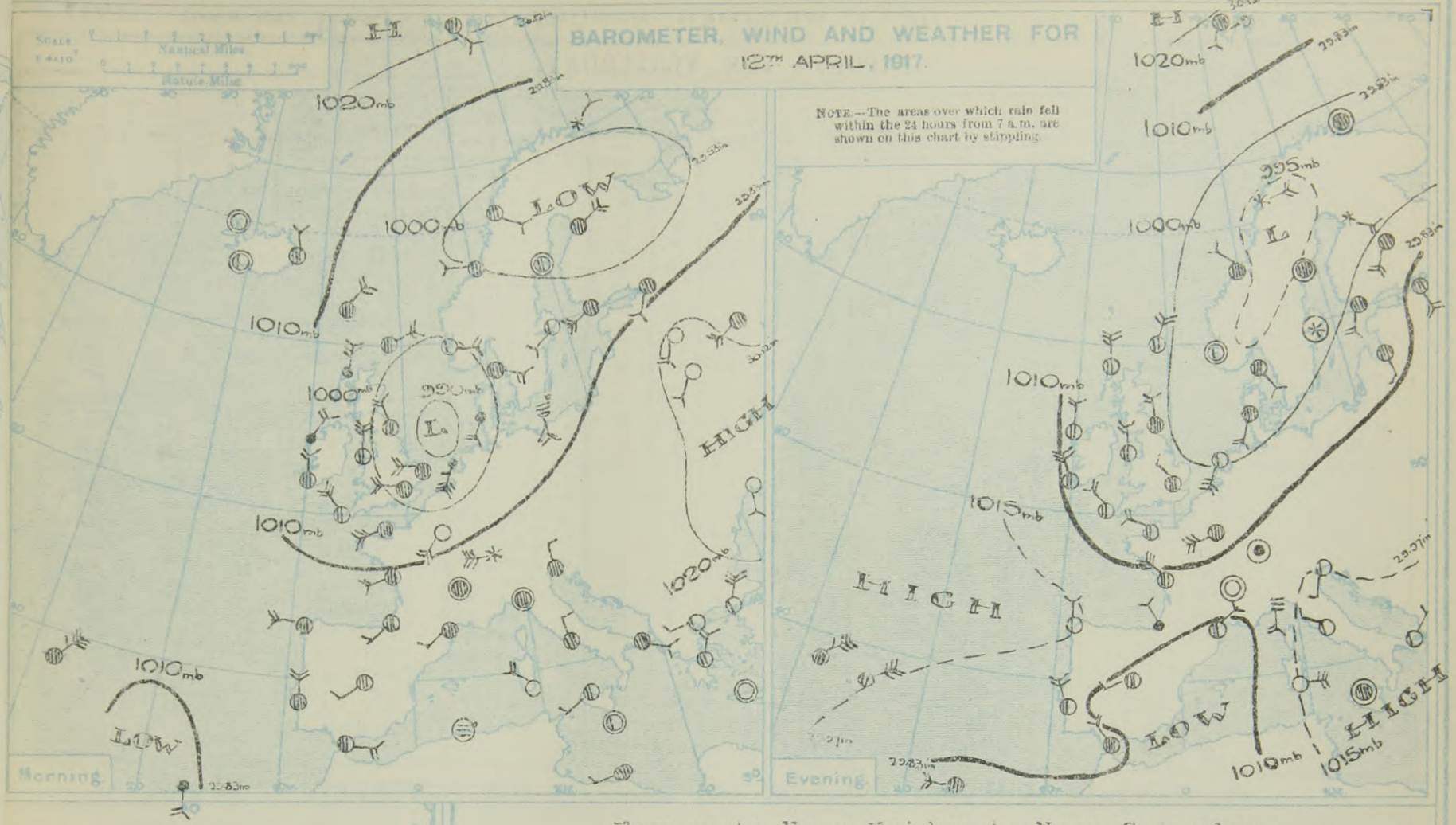
29.83in

Normal Temperature of the Sea

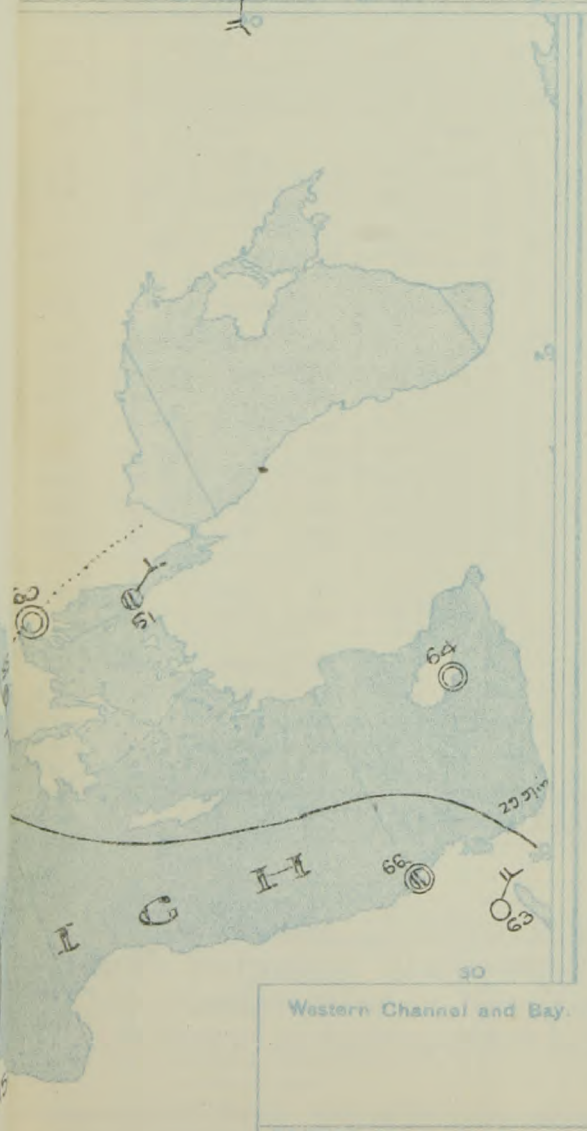
Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 12TH APRIL, 1917.



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



Forecasts Noon Friday to Noon Saturday

0{a b} 1 2{a b}

Moderate or fresh winds between West and North West. Changeable, some snow showers. Continuing cold.

3 4{a b c} 5

Moderate Westerly winds. Fair weather.

Remaining cold.

6{a b}

Same as Nos. 0, 1 and 2

7{a b} 8{a b}

Same as Nos. 3, 4, and 5

9{a b} 10{a b}

Moderate or fresh winds between SW and W. Fair some showers. Continuing rather cold

Western Channel: Moderate W winds, slight sea, fair. Bay: Light indefinite winds, smooth sea, fair.

FURTHER OUTLOOK.

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

Issue No. 20,231

DAILY WEATHER REPORT.

Friday, 13th April 1917.

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	1004·0	34	SE	3	T	1000·0	−3	34	+2	W	3	0	5	*	32
	Gorki	1014·0	32	W	3	b	1022·9	+6	?		SW	2	b	3	*	30
	Velieki Luki	1009·3	34	SE	2	0	1020·3	*	34	0	SSW	3	b	1	*	30
	Hangö	1001·0	32	SSE	1	5	?	+5	32	+2	WSW	4	0	–	*	23
	Riga	1010·3	34	SW	2	b									*	
	Petrograd	1004·7	36	S	3	b	1007·3	+1	34	0	SW	4	0	1	43	32
	Moscow	1013·1	36	WSW	2	b	1018·6	+5	34	−11	WSW	4	0	10	*	32
	Kiev														*	
	Kharkov	1023·6	45	–	0	b	1027·2	+4	43	−5	NE	2	b	–	*	39
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev	1021·9	32	–	0	b	1024·3	*	43	−3	–	0	b	–	*	32
	Odessa	1022·6	52	SW	3	b	1023·9	+2	48	+2	SSW	2	b	–	*	46
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015·7	54	S	2	T	1014·5	*	50	0	N	1	0	1	59	48
	Pesaro	1016·1	54	SE	1	0	1015·9	*	54	0	NE	1	b	–	64	45
	Rome	1016·9	55	SW	1	0	1016·7	*	54	0	N	1	c	–	63	50
	Viesti	1017·1	57	SE	1	0	1014·7	*	57	+3	SSE	1	bc	–	61	54
	Brindisi	1017·5	57	SSW	1	0	1015·4	*	54	+4	SE	2	0	–	66	50
	Cagliari	1018·7	63	?	?	0	1015·0	*	59	0	NW	3	b	1	68	50
	Palermo	1014·1	59	–	0	b	1015·0	*	52	0	WSW	1	bc	–	68	41
	Tripoli						1013·7	*	61	+2	W	1	0	–	97	59
	Algiers															
Sweden.	Hernösand	1001·0	34	–	0	0	999·4	*	32	+7	–	0	bc	*	*	*
	Stockholm	997·1	34	WSW	4	5	1006·0	*	34	+2	SW	2	b	*	*	*
	Wisby	1002·7	36	WSW	6	0	1007·4	*	37	+3	SSW	2	b	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Morning Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord	1018·6	27		–	0	b
Reykjavik	1018·0	30		—	0	0
Vestmanna						
Seydisfjord	1018·6	23		N	2	c
Thorshavn	1009·0	35	−2	NNE	4	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.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	—	—	49	29	c	bc	6·0
	Banff	Trace	—	44	33	c.bc	bc	8·1
	Montrose	—	—	45	31	b	b	8·5
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	2	Trace	40	27	c.bc.c	c.bc.c.o	3·3
	Skegness	4	—	44	32	o.bc	bc.o.bc	8·8
Eng. N.W.	Morecambe	—	—	43	33			3·5
	Southport	Trace	—	41	30	b.bc.b	b.bc.b	8·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	1	Trace	47	32	bc	bcp	4·6
Wales.	Rhyl	Trace	2	41	32	s.c	bc.s.bc	3·6
	Colwyn Bay	*	*	42	34	c	s.bc.b	2·1
	Llandudno	*	*	44	33	c	cs	6·5
	Aberystwyth	*	*	42	32	s.o.c	b.bc	1·1
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	3	Trace	45	33	ofrs.c	c.o.c	2·9
	Felixstowe	3	–	45	33	bcq	bc	6·9
	Walton-on-Naze							
	Southend-on-Sea	6	—	45	32	o.c	bc.c.o	2·5
England, S.E.	Margate	2	1	45	33	osh.cp	b	5·8
	Ramsgate							
	Hastings	2	1	46	33	ors.b	b.bc	8·1
	Eastbourne	3	1	44	34	bc.ob	bcq	9·7
	Seaford	*	*	44	29	c	bc	7·3
	Brighton	3	–	45	34	osr.c	cr.bc	6·1
	Worthing	6	–	45	34	s.bc	b.bc	7·1
	Littlehampton	4	–	43	33	o.bc	bc	6·3
	Bognor	*	*	44	33	s.hr.b	cqrh	8·0
	Bournemouth	5	–	47	30	c	bc	9·0
England, S.W.	Weymouth	*	*	47	35	bcv	bc	8·7
	Torquay	2	Trace	47	33	c.bc	bc.b	
	Paignton	*	*					
	Penzance	1	–	48	35	c.bc	bc.b	9·7
	Newquay	1	–	45	32	b	b	9·8
	Bude	2	1	45	36	b	b	7·2
	Ilfracombe	7	–	45	32	bc	bc	6·8
	Weston-s-Mare	7	–	46	33	bc	b	8·0

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

13th and 14th April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	5·2 / 4·59	11·54 / 11·53	6·45 / 6·47
Greenwich	5·12 / 5·9	12·1 / 12·0	6·50 / 6·52
Wick	5·9 / 5·6	12·13 / 12·13	7·17 / 7·20
Valencia	5·52 / 5·49	12·42 / 12·41	7·32 / 7·34

NOTES ON YESTERDAY'S WEATHER.

There was some improvement in the weather during the day, but showers were again reported from many stations. Day temperatures rose to about 45° in most districts. Sunshine measurements were fair

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, 1917. No.104. Saturday, 14th APRIL.

	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 ...	992·8	34	E	2	om	986·9	-1	33	-11	NNE	1	-	c	1	8	44	30	bcsp	osp	bc	*
	Deerness (Orkney)	993·2	37	NW	3	bc	986·4	*	36	+2	N	3	NE	bc	2	1	39	32	ops.c	c.bc	bcx	4·3
	Stornoway ...	992·4	40	SE	2	c	990·0	+2	36	+2	NNE	5	-	bc	4	1	42	33	cp	c	c.bcps	?
	Castlebay (Barra Isd.)																					
	Glasgow ...	994·8	39	SSW	4	r	986·0	-1	34	-1	WSW	1	-	ops	*	5	41	32	odp	op	opr.sp	0·1
	Eskdalemuir ...	997·4	37	SSW	5	od	986·2	0	35	+1	WSW	4	N	o	*	13	39	33	o.os.oh	or	or.o	0·6
	Malin Head ...	995·5	43	WNW	5	omqp	984·7	-3	38	+3	NW	7	NW	cmq	7	2	45	36	bcq	bmqp	omqp	1·4
	Blacksod Point	999·9	44	W	4	omp	994·5	+2	37	-2	N	5	NE	bcqph	4	4	46	35	ogp	omp	cp bcp	*
	Valencia ...	1006·8	46	SW	5	o	998·4	-2	45	+7	NW	5	W	cq	4	2	48	38	c.bph	cd.c.o	opbcp	5·0
	Roche's Point	1006·6	46	WSW	3	o	996·9	*	46	+9	W	3	-	o	3	1	48	37	c	c.op	c.op	*
	Birr Castle ...	1002·0	44	SW	3	c	993·7	*	39	+6	W	3	-	o	*	1	47	33	o.c	c.o.c	opr	2·9
	Donaghadee ...	997·8	45	WSW	4	ompq	987·5	-3	39	+3	WSW	4	W	bcm	3	0·4	48	36	omq	ompq	op.bcq	*
	Liverpool (Bidston)	1002·6	41	SW	3	o	990·4	-2	42	+4	WSW	4	W	o	3	2	46	38	o.c	bc	or.o	2·9
	Holyhead ...	1002·2	43	SW	5	cg	991·0	-3	43	+3	WSW	4	W	cg	4	1	47	39	o.bc.c	c.og	op.c	4·3
	Pembroke (St. Ann's)	1006·7	42	SW	4	c	995·4	-9	44	+4	SW	5	SW	cq	4	0·1	44	39	bc	bc.c	cqp	?
	Scilly (St. Mary's)	1010·3	47	WNW	4	bc	1002·1	-2	46	+3	W	5	W	cqp	6	1	50	41	bc	bc	bc.cqp	10·5
	Falmouth ...	1008·9	44	W	3	b	1000·1	-4	44	+8	WSW	5	-	c	*	1	51	35	bc	bc.b	bc.odq	10·0
	Jersey (St. Aubin)	1010·1	47	SW	4	c	1005·0	*	43	+1	SW	3	SW	c	3	-	50	40	o b bc.b	b.b.c.bc	bc	9·0
	Portland Bill ...	1007·6	42	WSW	3	cp	1000·0	-4	44	+3	WSW	5	W	c	4	1	47	41	bc	bcp	bc.c	*
	Dungeness ...	1006·7	43	WSW	4	b	1000·8	-2	42	+6	SSW	6	SW	bc	5	-	47	35	bc	bc	c.bcp.c	*
	Dover	1007·6	48	SSW	5	b	1002·1	-4	41	+6	SW	6	W	o	4	-	40	37	b.bc	bc.b	oq	10·4
	Wick	994·2	39	NNW	3	c	987·3	-1	34	+1	NNW	2	-	bc	2	1	42	32	o.cm	cm.c	cm.bc	*
	Nairn	992·6	35	-	0	os	988·5	*	33	-1	-	0	-	bc	1	13	43	30	od	oprs	es.bc	0·7
	Aberdeen	993·1	39	-	0	o	985·9	+1	35	0	NW	3	-	c	3	7	43	34	o.c.o	op	opr.o.c	0·8
	Leith	993·9	42	WSW	3	o	985·2	0	33	-4	NE	2	-	s	3	6	45	33	om.cg.o	c.og.c.o	op.ors	*
	Tynemouth ...	998·3	43	W	3	cmq	986·1	-2	40	+5	W	3	W	cmq	4	1	45	35	cm	cmq	omqp	*
	Spurn Head ...	1002·9	41	WSW	4	bcqm	991·2	-5	41	+4	SW	5	-	rq	5	Trace	44	36	cqp	bcqp	cq	1·5
	Yarmouth ...	1004·2	42	WSW	4	c	996·5	-4	39	+5	SW	5	-	cqm	4	-	48	33	bcqm	bcm.cq	bcmqc	9·5
	Clacton-on-Sea	1005·8	41	SSW	4	c	998·8	-4	41	+7	SSW	5	SW	o	4	-	49	34	b.bc	bc.c	c.o	10·2
	Nottingham ...	1003·2	43	WSW	2	b	992·3	*	42	+10	SW	5	SW	r	*	0·4	46	32	bc.c.o	o.c.b	b	3·0
	Benson (Oxon.) ...	1005·7	45	WNW	3	b	996·7	-5	42	+10	SSW	5	-	o	*	-	49	31	bc	bc	b.o	*
	Sth Farnborough	1006·2	40	SW	4	o	998·5	-4	42	+9	SW	5	-	o	*	2	51	32	b.o.bcq	c.opq.o	o.bc.q	5·7
	London (Kew Obsy.)	1006·1	43	SW	4	o	998·5	-4	42	+8	SW	5	-	o	*	1	49	33	pmx.bc	c.opq.oqno	bc.b.q	7·3
NORTHERN EUROPE.	Spitsbergen ...	1015·6	1	SE	3	o	1010·6	-2	9	+26	N	3	*	o	*	*	9	-17				
	Vardö	982·2	27	-	0	b	991·1	+3	34	+4	SSE	3	-	bc	2	*	32	25				
	Bodö	991·0	34	E	2	c	990·7	0	32	+2	E	2	-	s	2	?	36	28				
	Christiansund ...	993·0	37	WNW	2	b	991·6	0	36	0	-	0	-	b	3	-	37	28				
	Skudesnaes ...	992·8	37	SE	2	o	987·5	-5	36	-1	ESE	7	-	o	4	?	39	32				
	Færder (X'tania Fjord)	995·1	36	SSW	3	o	994·8	0	34	-2	SSW	4	-	o	2	-	37	34				
	The Scaw (Skagen)	998·3	36	W	2	c	997·2	+1	36	0	SSW	3	-	o	3	Trace	41	34				
	Blaavands Huk	1001·9	39	WSW	3	c	997·8	?	37	+1	SW	3	-	o	3	Trace	41	34				
	Copenhagen ...	1001·5	39	W	2	m	1002·1	-1	39	+5	SW	3	-	bc	*	2	41	34				
	Bornholm ...	1001·2	36	WSW	3	m	1008·0	-1	37	0	SW	5	-	m	1	2	41	32				
FRANCE, &c.	The Helder ...	1005·2	39	SSW	4	b	998·6	-3	41	+4	SSW	7	W	bc	3	-	45	37				
	C. Gris Nez ...	1007·4	42	SW	4	b	1001·4	-3	42	+4	SW	5	*	o	5	1	45	38				
	La Hève	1009·2	45	WNW	1	bc	1006·7	*	38	+1	SW	4	*	b	3	-	50	36				
	Brest (St. Mathieu)	1011·8	47	NW	3	bc	1007·0	-1	46	0	W	4	*	c	3	-	52	37				
	Rochefort (Ile d'Aix)	1011·9	48	NW	4	b	1008·6	-1	43	-3	NE	2	*	b	*	-	57	36				
	Biarritz	1010·6	50	NNE	3	c	1007·2	0	45	+1	E	1	*	r	2	-	54	41				
	Paris	1010·4	48	SW	2	b	1008·2	-1	41	+4	S	2	-	b	*	-	54	30				
	Belfort	1013·1	44	W	3	c	1011·5	*	40	+5	-	0	*	m	*	-	60	30				
	Lyons	1011·4	44	-	0	o	1009·8	*	40	—	-	0	*	b	*	1	48	33				
	Nice	1008·4	47	-	0	r	1006·4	0	51	+1	-	0	*	b	3	13	61	41				
	Perpignan ...	1009·4	51	NNE	1	o	1007·5	-2	48	-1	E	2	-	o	*	Trace	55	32				
	Sanguinaire ...	*	57	SE	1	o	*	*	55	o	SE	3	*	f	2	-	63	50				
SOUTHERN STATIONS.	Corunna	1011·8	50	N	5	c	1010·9	0	46	+1	—	0	—	r	3	1	52	43				
	Madrid	1003·4	57	WSW	1	c	1004·8	+3	48	-3	WSW	3	—	r	*	12	59	43				
	Lisbon																					
	Azores (Horta) ...	1020·6	*	NE	4	b	1021·5	0	52	-2	NE	4	*	b	2	-	59	48				
	Madeira	1010·4	63	NE	2	r	1014·2	0	57	+2	NE	4	-	o	4	—	63	58				
	Gibraltar	1005·7	59	SW	5	o	1010·5	*	52	-3	SW	4	*	bc	3	7	66	51				
	Malta	*	*	*	*	*	1009·4	-5	63	+4	SE	5	-	c	4	-	70	61				
	Limassol	*	*	*	*	*	1013·5	+1	66	+2	W	2	W	b	2	-	72	48				
	Alexandria ...	1015·2	66	-	0	bc	1014·3	0	66	0	ESE	2	-	b	1	-	77	61				
	Cairo (Helwan) ...	1014·2	73	NE	1	b	1014·3	+1	73	+10	NE	1	-	b	*	-	84	59				

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)	68	83	8·0	51	35	30	1	b. bc	bc.cb	o.or.o
CITY (Bunhill Row)	*	*	6·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	57	82	6·0	50	38	33	Trace	bc.do	or	or
CAMDEN SQ. (British Rainfall) ...	76	75	7·0	52	35	30	1	b	b.o	*
HAMPSTEAD (Reservoir)	*	84	6·4	48	33	25	1	bc.op	ex.op	o
S. KENSINGTON (Museum Grounds)	*	88	6·7	50	36	37	Trace	b.c	or.cp	cp.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1363	27·8	72

Temperatures at Greenwich and Camden Square are from Glaisher screens.

NOTE.

SOLAR HALO was observed at VALENCIA: 13th. at 15h.

NAIRN
2" snow lying at 7h.

LEITH
1" snow lying at 7h.

ERRATUM.

On Report No.102, for April 12th., the figures for the London Stations, Greenwich, Westminster, Camden Square and Hampstead, in the columns Min., Grass Min. and Rainfall should be moved 1 column to the left. The figures under "Max." are Rainfall.

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

THE MORNING OF SATURDAY, 14TH APRIL, 1917.

GENERAL INFERENCE.

The depression over Scotland will move slowly East or South-East.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

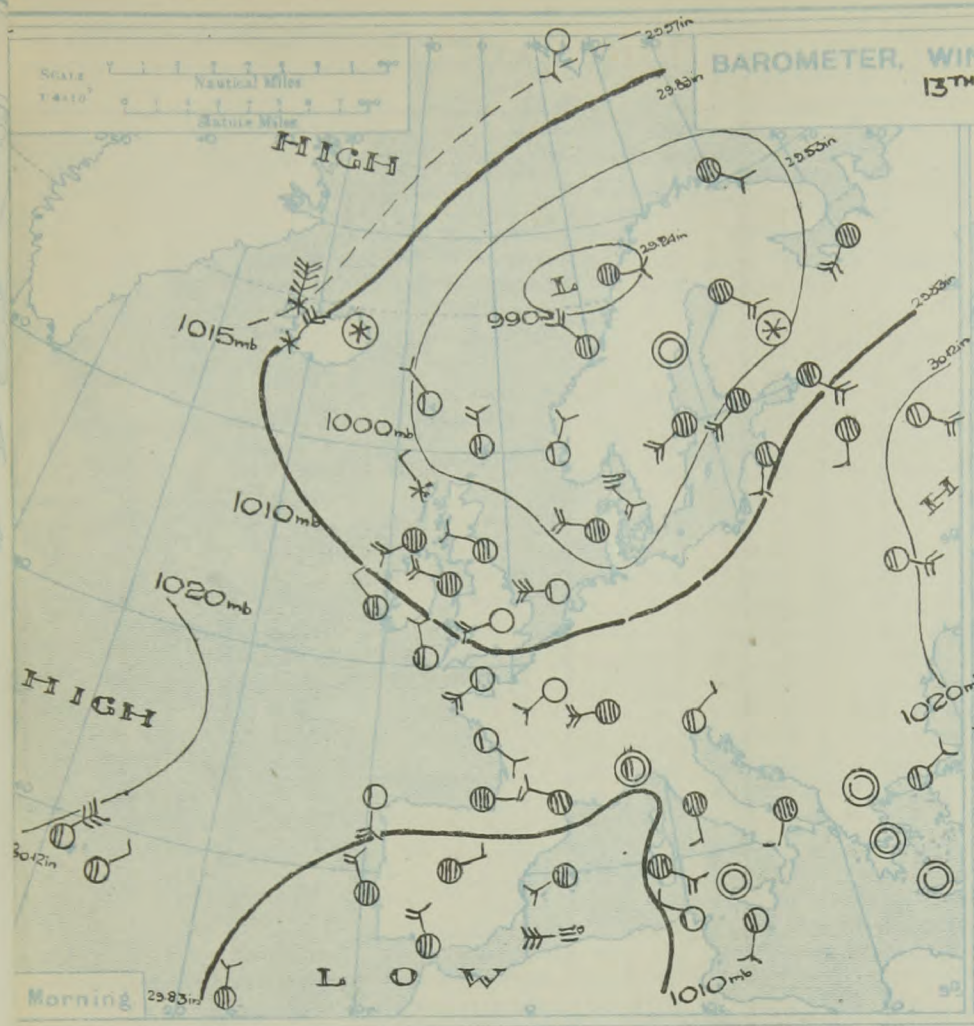
SEA DISTURBANCE.—Rough ~~. High ≈.

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for APRIL.

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



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

FORECASTS NOON SATURDAY TO NOON SUNDAY.

0 1 2 — Moderate North or North-East winds, freshening; unsettled, some snow showers; cold.

3 — Fresh or strong winds between South-West and West veering later. Unsettled, some rain; becoming cold again.

4 — Same as Nos. 0 – 2

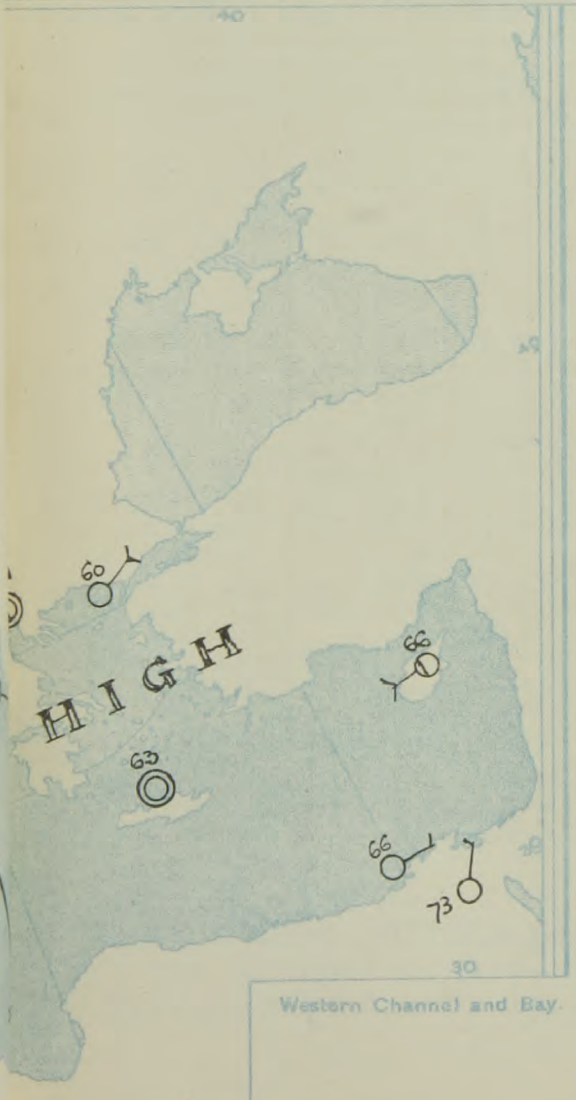
5 — Same as No.3.

6 7 — Fresh or strong North winds. Unsettled, some snow showers; cold.

8 — Same as No. 3.

9 10 — Fresh or strong North or North-West winds. Unsettled, some showers; cold.

11 — Fresh West or North-West winds and rather rough rough sea; fair, some showers.



FURTHER OUTLOOK.

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

Issue No. 20,232

DAILY WEATHER REPORT.

Saturday, 14th April 1917.

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	1000·2	34	W	5	o	1006·3	+2	32	-2	SW	4	o	–	*	28
	Gorki														*	
	Velieki Luki	1016·7	36	SSE	3	o	1013·6	*	39	+5	S	1	o	3	*	34
	Hangö	1005·2	34	SSW	3	o	1000·8	o	34	+2	WSW	4	o	2	*	30
	Riga	1007·1	41	S	1	o	1009·3	o	37		S	2	c	1	*	34
	Petrograd	1011·9	36	S	4	c	1005·3	+2	37	+3	SW	4	o	1	39	34
	Moscow	1024·8	39	S	2	o	1021·6	+1	41	+7	SE	3	bc	–	*	34
	Kiev														*	
	Kharkov	1026·0	54	SE	2	b	1026·7	o	48	+5	SE	2	b	–	*	43
	Kishinev														*	
	Elisabetgrad	1022·3	54	ESE	2	b									*	
	Nicolaiev							*							*	
	Odessa	1024·7	64	S	3	b									*	
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1014·1	55	SSW	1	b	1012·3	*	52	+2	ENE	1	bc	–	59	50
	Pesaro	1015·5	52	E	1	b	1013·7	*	55	+1	S	1	bc	–	59	43
	Rome	1016·1	57	NW	1	b	1016·4	*	55	+1	S	1	o	–	66	46
	Viesti	1016·1	55	WNW	1	b	1015·5	*	52	-5	ESE	1	c	–	63	50
	Brindisi	1015·4	57	NE	1	b	1015·0	*	55	+1	SSW	1	o	–	66	54
	Cagliari	1015·0	61	E	5	b	1011·0	*	59	o	SE	4	o	2	68	50
	Palermo	1016·9	59	–	o	o	1015·0	*	50	-2	–	o	b	–	70	43
	Tripoli							*								
	Algiers	1007·8	59	NE	2	m	1007·1	+2	59		W	6	m	–	68	57
SWEDEN.	Hernösand	997·4	36	–	o	c	993·5	*	32	o	–	o	b	*	*	*
	Stockholm	999·0	34	SE	2	s	999·3	*	36	+2	SW	4	o	*	*	*
	Wisby	999·2	36	SW	2	b	1000·7	*	37	o	SW	2	c	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord	1018·6	19	-8	NNE	5	s
Reykjavik	1008·6	28	-2	NNE	5	s
Vestmanna						
Seydisfjord	1006·6	27	+4	-	o	s
Thorshavn	999·6	30	-5	NW	2	b

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	–	–	42	35	bc	cp	0·0
	Banff	1	–	43	34	ops.c	bc.c	3·2
	Montrose	–	–	45	34	o	o	0·8
	Carnoustie	*	*					
	St. Andrews	1	1	44	34	c	o	0·3
Eng. N.E.	Harrogate	Trace	–	42	30	o.c	c.o.c	1·0
	Skegness	2	2	41	31	o.bc	or	3·3
Eng. N.W.	Morecambe	–	–	43	35			1·5
	Southport	–	–	45	37	o.ch rc	bc c.o.bc	3·5
Midlands.	Leamington Spa							
	Malvern	–	–	47	32	bc	bc.c	3·8
	Ross-on-Wye	–	Trace	49	27	c.bc	p.bc.b	6·2
Wales.	Rhyl	1	Trace	46	30	bc.od	cd bc	2·7
	Colwyn Bay	*	*	46	35	bc.c	cp.o	0·8
	Llandudno	*	*	45	37	c	cp	0·2
	Aberystwyth	*	*	43	34	or.c	bc.o	2·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Min	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	–	50	32	bc.c	c.o.c	8·2
	Felixstowe	–	–	49	32	bm.bc	c.bc	8·2
	Walton-on-Naze							
	Southend-on-Sea	–	1	49	31	b.bc	b.bc.cp	8·5
England, S.E.	Margate	–	–	48	33	bc	bc	8·1
	Ramsgate							
	Hastings	2	–	45	32	o.bc	b	9·2
	Eastbourne	2	–	46	33	b	b	9·0
	Seaford	*	*	45	33	c	b	8·7
	Brighton	Trace	·	46	32	c	c.bc	8·3
	Worthing	Trace	·	47	30	c.bc	bc.b	8·5
	Littlehampton	–	–	44	33			9·1
	Bognor	*	*	45	31	bc	bc	9·6
	Bournemouth	–	–	50	31	bc	bcc	8·7
England. S.W.	Weymouth	*	*	50	34	bc.b	b.bc	8·2
	Torquay	–	4	50	35	b	b.bc.c.b	7·5
	Paignton	*	*					
	Penzance	–	–	51	36	b.bc	bc	11·0
	Newquay	1	–	47	37	b	b	10·5
	Bude	Trace	–	48	35	b	b	10·0
	Ilfracombe	–	–	46	35	bc.b	b	9·6
	Weston-s-Mare	–	–	47	35	bc.b	b	10·0

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

14th & 15th April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·59 4·57	11·53 11·53	6·47 6·48
Greenwich	5·9 5·7	12·0 12·0	6·52 6·53
Wick	5·6 5·3	12·13 12·12	7·20 7·22
Valencia	5·49 5·47	12·41 12·41	7·34 7·35

NOTES ON YESTERDAY'S WEATHER.

Showery weather was again general with snow in the North. Temperature has risen in England and Ireland. Sunshine measurements were very variable.

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, 1917. No. 105 { Sunday. 15th April.

	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 ...	985.8	36	NNE	5	ov	994.4	+5	35	+2	NNE	6	—	Sq	6	9	40	33	csp	cqp	oqsp	*
	Deerness (Orkney)	988.5	37	NW	5	cps	996.9	*	39	+3	NNW	6	N	bcps	5	1	41	35	bc	bcps.c	cps.bc	6.1
	Stornoway ...	994.9	37	NNW	5	cpsq	1004.1	+5	36	0	N	4	—	bc	5	5	40	33	cpsq	cpsq	bcprs	5.4
	Castlebay (Barra Isd.)																					
	Glasgow ...	993.2	41	NW	2	bc	1001.9	+5	35	+1	W	3	—	o	*	3	43	30	osc	cps.c	bc.b.ox	3.6
	Eskdalemuir ...	992.7	36	NW	3	bcr	1000.5	+3	33	−2	NW	5	N	bcr	*	Trace	39	26	o.or.os	os.o.bc	bc.b.bc	3.2
	Malin Head ...	996.2	40	N	6	cq	1004.0	+2	37	−1	NNE	6	N	cq	6	2	43	35	cqp	cqp	cqp	7.8
	Blacksod Point	1001.0	35	N	6	omqps	1010.3	+3	35	−2	N	3	N	bcqph	4	2	42	32	cqph	oqph	omqph	*
	Valencia ...	1003.0	36	N	5	of	1012.3	+5	38	−7	NW	3	NW	cps	4	4	46	34	cpb	bc.c.op	os.bcq	5.8
	Roche's Point	999.1	44	N	4	bc	1009.3	*	37	−9	NNW	4	—	b	3	0.3	49	35	opq.c	cpq.bc	b.o.b	*
	Birr Castle ...	1000.2	39	NW	2	c	1008.4	*	353	−6	NW	2	NW	bc	*	0.1	46	33	cph	cph.	c.bcx	8.3
	Donaghadee ...	995.3	40	NW	6	bcqp	1002.7	+3	39	0	N	6	N	bcqph	5	2	44	35	oqqps	bcqp	bcpq	*
	Liverpool (Bidston)	994.0	37	W	3	o	1001.5	+3	39	−3	WNW	3	—	b	3	2	46	36	ocp	bcp	bps	3.2
	Holyhead ...	995.5	42	NNW	6	bcq	1003.0	+2	39	+4	NW	6	NW	cpq	6	3	47	36	cp.c.bc	b.bc.c	bcp.c	7.3
	Pembroke (St. Ann's)	996.6	45	NW	3	bc	1004.8	+5	39	−5	NNW	4	N	bq	3	—	48	37	c.bc	bc.	b.bq	5.8
	Scilly (St. Mary's)	998.8	45	NW	4	cq	1006.0	+5	41	−5	NNE	5	NE	bc	5	1	51	39	bcqp	cqp	bcpr	3.9
	Falmouth ...	997.5	46	NW	3	bx	1004.9	+6	37	−7	N	3	—	bc	*	3	51	35	od.cp	c.op.c	b.bcp	2.1
	Jersey (St. Aubin)	999.4	47	SW	4	oq	1000.3	*	40	−3	N	4	N	c	3	8	51	39	c.b.oq	cq. oq.	od.or.c	4.8
	Portland Bill ...	996.2	43	W6W	3	c	1001.7	+3	38	−6	N	4	S	bc	3	2	46	34	cp	or.c	c. bc	*
	Dungeness ...	996.1	44	SW	6	cq	997.3	0	37	−5	N	2	—	o	2	5	47	36	bc.	c.	crp.o	*
	Dover	996.9	44	SSW	6	r	999.8	+2	38	−3	NNW	4	N	o	2	6	45	35	o.c	opr	opr	0.6
	Wick	990.3	37	NNW	3	o	998.6	+6	39	+5	NNW	5	—	c	4	4	41	33	bcmps	c.omp	omp.cq	*
	Nairn	992.6	36	NNW	3	ou	1000.3	*	37	+4	NNW	4	—	cqq	3	4	42	32	bcqprs	chpq	op.c	4.5
	Aberdeen	990.9	38	WNW	4	b	997.9	+6	37	+2	NW	4	—	bcp	3	1	43	34	c.bc	bcp	bcrsp	6.7
	Leith	991.3	41	NW	2	c	1000.1	+2	35	+2	W	2	W	c	3	1	43	32	s	c.bc.c	c.b.bc.c	*
	Tynemouth ...	991.4	39	N	2	c	999.0	+2	34	−6	NW	2	NW	bm	3	3	44	31	cmp	omr.	bm	*
	Spurn Head ...	990.6	45	W	5	bcq	999.1	+3	35	+6	NW	5	—	bcx	5	2	48	33	bcqp	cq	bc	2.5
	Yarmouth ...	992.6	44	WSW	4	r	998.3	+2	38	−1	N	2	—	bc	2	1	49	34	bcmrq	cq.omr	cm	0.0
	Clacton-on-Sea	994.7	44	SSW	5	o	999.0	+2	37	−4	NW	3	—	o	2	3	46	36	oq	oq	oqr.o	0.0
	Nottingham ...	992.2	44	W	4	b	1000.9	*	32	−10	W	1	—	b	*	2	50	29	or.cp	op.c	bc.c.o	3.9
	Benson (Oxon.) ...	994.3	45	WSW	2	o	1000.7	+4	32	−10	—	o	SW	b	*	2	49	28	or.	c	b	*
	Sth Farnborough	994.5	43	SW	3	r	1000.1	+3	35	−7	NW	3	SW	bc	*	3	49	32	opq	opq	o.bc	0.6
	London (Kew Obsy.)	994.9	44	SW	3	ond	1000.8	+3	35	−7	NNW	1	SW	bc	*	4	50	34	o.oq.oc.oq	oq.o.or.ond	ond.c.bc.o	0.1
NORTHERN EUROPE.	Spitsbergen ...	1009.3	7	WNW	2	o	1012.8	+3	12	+3	E	6	*	o	*	*	12	5				
	Vardö	999.4	32	—	0	o	1004.2	+5	34	0	—	0	—	o	2	*	34	25				
	Bodö	995.8	32	E	1	b	996.3	−1	32	0	E	5	—	b	2	—	36	28				
	Christiansund ...	991.5	41	NE	3	o	989.3	+1	39	+3	W	3	—	o	3	—	45	36				
	Skudesnaes ...	981.5	34	ESE	7	o	989.6	+2	39	+3	ESE	6	—	c	5	9	39	32				
	Færder (X'tania Fjord)	994.9	37	SSE	6	r	994.7	+4	37	+3	SSW	6	—	o	4	6	59	34				
	The Scaw (Skagen)	997.0	39	S	5	r	996.8	+3	39	+3	SSW	3	—	o	3	1	41	32				
	Blaavands Huk	995.3	39	SSW	5	r	997.9	+2	39	+2	SW	1	—	o	2	2	41	36				
	Copenhagen ...	1002.6	43	SW	2	o	1001.6	+1	41	+2	SSW	3	—	bc	*	Trace	45	37				
	Borholm ...	1004.8	43	S	5	m	1003.7	0	41	+4	S	8	—	m	1	—	46	36				
FRANCE, &c.	The Helder ...	995.4	43	SSW	7	o	997.6	+2	41	0	SW	1	—	o	1	1	46	39				
	C. Gris Nez ...	997.2	45	SW	7	o	998.1	+1	37	−5	N	3	*	r	3	4	46	37				
	La Hève	1001.2	43	SW	5	o	998.3	*	37	−1	NE	2	*	r	2	3	48	36				
	Brest (St. Mathieu)	1000.6	46	WSW	5	c	1003.8	+5	43	−3	NNE	4	*	c	3	3	52	37				
	Rochefort (Ile d'Aix)	1004.6	48	NW	5	o	998.0	+3	48	+5	SW	6	*	r	*	2	55	48				
	Biarritz	1004.4	45	N	2	r	1004.0	−1	46	+1	S	3	*	o	2	17	46	41				
	Paris	1001.5	54	WSW	3	b	?	−1	39	−2	3SE	2	SW	b	*	—	59	36				
	Belfort	1004.4	50	E	3	c	999.9	*	44	+4	—	0	*	o	*	6	58	41				
	Lyons	1004.3	48	—	0	r	1002.1	*	38	−2	W	2	*	r	*	27	57	37				
	Nice	1007.5	50	—	0	c	1004.7	−1	50	−1	—	0	*	o	2	7	61	45				
	Perpignan ...	1002.0	54	SE	2	o	1004.2	+4	48	0	NW	3	—	o	*	—	63	45				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1009.6	52	NNW	3	b	1014.6	+6	50	+4	NNW	6	—	b	3	4	52	45				
	Madrid	1005.9	48	SSW	3	bc	1014.1	+4	41	+2	W	3	—	e	*	?	59	37				
	Lisbon	1013.0	54	NW	4	b	1014.3	+2	50	+2	W	4	—	c	5	Trace	57	46				
	Azores (Horta) ...	1021.9	*	SSE	4	c	1022.9	+1	54	+2	—	o	*	bc	2	1	63	52				
	Madeira	1017.9	59	NE	4	o	1021.7	0	52	−5	NE	3	N	b	2	—	63	52				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1008.6	0	61	−2	ESE	1	—	o	3	—	68	61				
	Limassol	*	*	*	*	*	1013.7	+2	66	0	W	1	N	b	0	—	75	54				
	Alexandria ...	1013.2	70	—	0	b	1015.5	+1	66	0	NNE	2	NE	b	1	—	92	54				
	Cairo (Helwan) ...	1013.1	80	NE	2	b	1013.6	+3	64	−9	NW	2	—	b	*	—	91	61				

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. Today. %	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)	90	74	0.2	49	35	32	4	o.cd	cd.cp	cp
CITY (Bunhill Row)	*	*	0.1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	80	66	0.3	50	35	34	3	oe.dr	oe.bm	bcm
CAMDEN SQ. (British Rainfall) ..	73	64	0.6	50	33	29	6	o.	o.or	s
HAMPSTEAD (Reservoir)	*	68	0.4	47	31	23	9	o	e.or	oc.bx
S. KENSINGTON (Museum Grounds)	*	67	0.1	50	33	31	4	o	o.op.	ogr.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

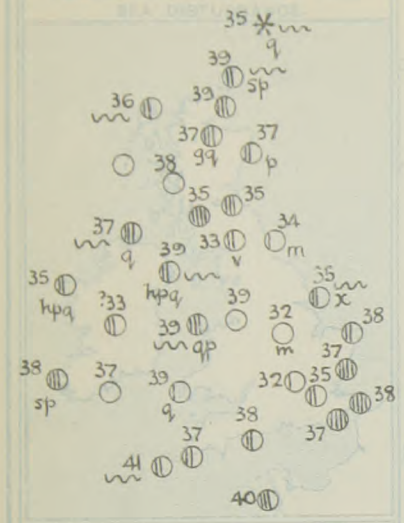
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
567	11·5	49

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

THE MORNING OF SUNDAY, 15TH APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

GENERAL INFERENCE

With the general rise of pressure which is taking place fairer conditions may be expected.

HIGH

LOW

LOW

HIGH

HIGH

1010mb

1005mb

1000mb

995mb

990mb

1015mb

1020mb

1010mb.

1005mb.

1015mb

20°

32°

35°

40°

50°

60°

29.83in.

29.68in.

29.97in.

30.12in.

*Barometer rising 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.
⊤ϟ, thunderstorm.

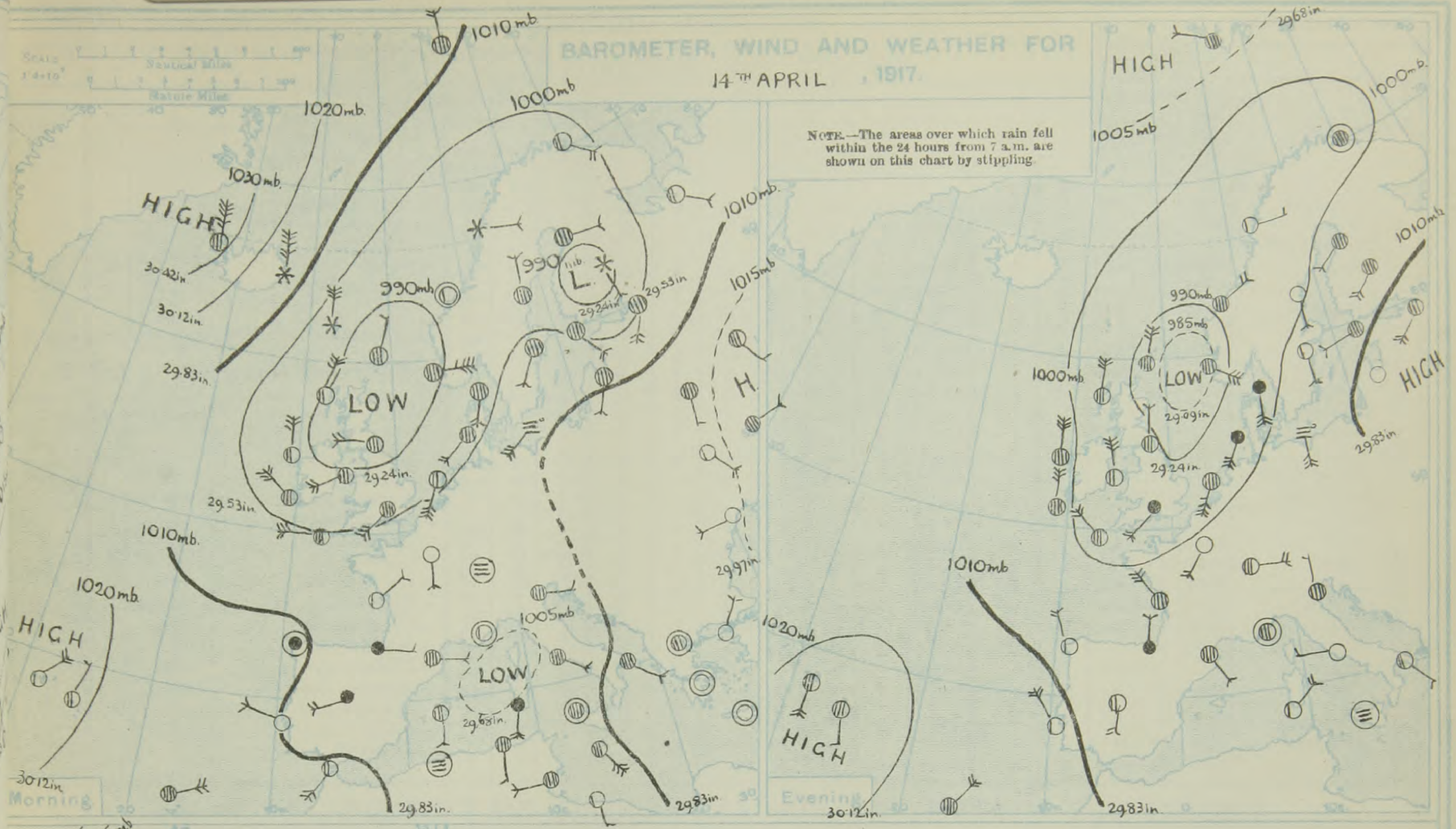
SEA DISTURBANCE.—Rough ~~~ High ~~~.

Normal Temperature of the Sea.

Below 40° | 40-50 | 50-60 | Above 60°

Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 14TH APRIL, 1917.



Western Channel and Bay. 11

FORECASTS FROM NOON SUNDAY TO NOON MONDAY.

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

Moderate or fresh Northerly winds; fair weather, with some showers of hail or snow in the north. Cold.

Moderate or fresh Northerly winds; moderate sea; fair weather.

FURTHER OUTLOOK.

20

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

Issue No. 20,233 — DAILY WEATHER REPORT. — Sunday, 15th April 1917.

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 ...	1003·0	34	SW	6	o	1007·4	+1	32	0	SE	2	bc	–	*	27
	Gorki	1011·5	45	–	0	b	1014·0	0	43		S	1	o	3	*	36
	Velieki Luki ...							*							*	
	Hangö	997·5	32	SSW	1	s	999·3	+8	31	–2	SE	3	o	–	*	30
	Riga	1003·5	37	SSW	4	o	1009·1	+5	37	0	SSW	2	o	6	*	36
	Petrograd ...	1006·7	41	SE	3	o	1001·5	+2	37	0	SSW	4	o	3	46	37
	Moscow	1018·8	50	SSE	3	o	1016·7	+1	45	+4	SSE	1	c	–	*	41
	Kiev	1013·1	56	SE	3	b	1014·0	+1	50		SE	2	b	–	*	46
	Kharkov ...	1019·1	52	NNE	7	b	1018·6	+1	46	–2	E	2	o	–	*	46
	Kishinev ...	1013·0	56	SE	1	b	1012·6	0	48		E	2	b	–	*	2
	Elisabetgrad ...						1015·0	0	46		–	0	b	–	*	41
	Nicolaiev ...							*							*	
	Odessa	1015·5	54	N	2	b	1014·6	+1	50		W	2	b	–	*	48
	Tarkhankout...						1017·2	*	48		W	1	o	–	*	48
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1010·3	54	SSE	1	o	1007·0	*	52	0	E	1	o	13	59	50
	Pesaro	1010·6	55	E	1	c	1006·9	*	54	–1	NW	1	c	Trace	66	52
	Rome	1010·3	57	S	1	o	1007·5	*	61	+6	SE	2	o	2	66	55
	Viesti	1012·2	57	SSE	1	b	1008·7	*	57	+5	SE	4	o	–	61	50
	Brindisi	1013·7	59	NE	1	r	1012·1	*	51	–4	SE	2	o	2	63	51
	Cagliari	1007·0	63	SE	5	o	1006·6	*	61	+2	SSW	4	r	1	68	52
	Palermo	1010·9	63	–	0	b	1006·4	*	68	+18	–	0	o	–	77	50
	Tripoli						1007·8	*	81		S	1	b	–	84	64
	Algiers	1006·9	57	–	0	c	1006·9	0	57	–2	–	0	m	–	64	54
SWEDEN.	Hernösand ...	994·4	34	S	2	b	995·3	*	26	–7	N	2	o	*	*	*
	Stockholm ...	992·8	34	N	2	s	1000·8	*	36	0	SSW	2	o	*	*	*
	Wisby	992·3	34	WSW	4	s	1003·0	*	37	0	SSW	4	b	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1030·4	18	–1	N	9	c
Reykjavik	1024·8	21	–7	NE	6	bc
Vestmanna						
Seydisfjord	1015·9	16	–11	N	9	s
Thorshavn	995·2	31	–1	N	6	s

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	–	11	44	33	oq	bcp	4·3
	Banff	3	Trace	41	33	bc	bc.p.s	6·0
	Montrose	3	Trace	45	32	o	bc	2·5
	Carnoustie	*	*					
	St. Andrews...							
Engd. N.E.	Harrogate	3	2	47	36	c.bc.c.r	o.o.bc.o	5·6
	Skegness	3	–	46	30	o	o	0·3
Engd. N.W.	Morecambe							
	Southport	–	1	46	34	c.o.bc	bc.p.c	5·3
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	Trace	3	50	38	c.or	bc.r.bc	2·6
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*	46	38	c.r.c	c	3·6
	Aberystwyth	*	*	45	37	or.c	c.bc	1·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft							
	Felixstowe	–	–	48	37	c.q	c.q	0·1
	Walton-on-Naze	–	–	45	37	bc.c	bc.c	0·0
	Southend-on-Sea	3	–	47	37	o	o	0·1
England, S.E.	Margate	–	–	48	36	c	c	1·1
	Ramsgate							
	Hastings	–	Trace	47	37	o.c	bc.od	0·7
	Eastbourne	–	–	48	39			1·3
	Seaford	*	*	46	40	c	c	2·0
	Brighton							
	Worthing	–	–	49	39	o	o	0·6
	Littlehampton	–	–	45	37			0·4
	Bognor	*	*	47	39	q.b	q.r	0·8
	Bournemouth	–	Trace	49	36	o	o	0·6
England, S.W.	Weymouth...	*	*					
	Torquay	1	4	51	38	o.c.p	c.o.p	1·2
	Paignton	*	*	52	35	o.p.bc	o.p	1·2
	Penzance	2	2	52	42	or.c	c.r.bc	2·0
	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.

15th & 16th April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	4·57	11·63	6·48
	4·55	11·53	6·50
Greenwich	5·7	12·0	6·53
	5·5	12·0	6·55
Wick	5·3	12·12	7·22
	6·1	12·12	7·24
Valencia	5·47	12·41	7·35
	6·45	12·41	7·37

NOTES ON YESTERDAY'S WEATHER.

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, 1917. No. 106. Monday, 16th APRIL.

	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 ...	1001·1	36	NW	4	c	1003·8	0	34	-1	NW	2	–	bc	2	2	41	34	cspq	cq	bcsp	*
	Deerness (Orkney)	1003·7	35	NNW	4	ops	1004·4	*	32	-7	NE	2	NE	c	1	2	42	30	bcps	bcpso	osc	6·0
	Stornoway ...	1006·4	35	NW	4	bcph	1001·0	-1	31	-5	E	4	–	os	4	5	41	31	bcps	bcpsh	cpsos	7·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1007·8	39	WNW	3	o	1002·0	-7	32	-3	SE	1	–	s	*	2	47	30	o.c.bc	c.o	bcbos	4·8
	Eskdalemuir ...	1007·4	39	WNW	5	cq	1004·3	-8	32	-1	SSE	4	–	os	*	2	46	25	bcr.br	bc.osq	o.bxos	8·3
	Malin Head ...	1009·9	38	WNW	4	bc	1001·5	0	41	+4	SW	6	W	cmx	6	1	42	35	bcq	bcph	cmap	9·0
	Blacksod Point	1013·3	39	W	3	omd	1008·3	+2	43	+8	NW	5	NW	cmq	5	5	44	34	bcp	oq	omrcp	*
	Valencia ...	1016·9	41	WNW	3	bcp	1014·0	0	46	+8	W	4	–	opd	4	1	47	38	c.bcp	bc	c.o.cp	10·0
	Roche's Point	1014·8	45	NNW	4	bc	1013·0	*	45	+8	W	3	–	o	3	0·4	49	36	b.bc	cq.bc	bc.op	*
	Birr Castle ...	1012·1	42	NW	2	c	1008·4	*	45	+12	W	2	–	c	*	1	49	33	cph	c	cpr	6·0
	Donaghadee ...	1010·4	42	NW	4	cmq	1002·7	-4	40	+1	SW	4	–	omrq	3	2	45	35	bcmq	bcmq	bc.cmr	*
	Liverpool (Bidston)	1009·3	43	W	3	b	1008·4	-4	39	0	SW	3	SW	o	2	–	44	36	b	b	b.o	12·1
	Holyhead ...	1010·6	44	NNW	5	bcq	1007·0	-6	41	+2	SW	6	–	orm	5	1	47	36	cpbc	bc	b bc.or	9·6
	Pembroke (St. Ann's)	1012·7	43	WNW	3	b	1012·8	-4	42	+3	SW	4	–	op	3	1	47	38	bq.bcq	bc.b	b.bc.cp	12·4
	Scilly (St. Mary's)	1014·3	45	NW	6	bc	1018·2	0	45	+4	WNW	4	NW	c	5	–	48	41	bc	bc	bcr.c	11·8
	Falmouth ...	1013·0	43	NW	5	bcq	1016·8	-1	43	+6	WSW	4	–	o	*	Trace	46	36	bcqph	cpq.bc	bwc.o	9·0
	Jersey (St. Aubin)	1008·7	46	NW	4	b	1017·7	*	39	-1	NW	1	–	b	1	–	47	37	c.b	b	bwx	9·5
	Portland Bill ...	1007·4	42	N	4	b	1015·3	+1	42	+4	WNW	3	–	b	3	–	48	38	c.bc	bc	bc.b	*
	Dungeness ...	1005·3	42	NE	4	c	1013·8	+3	36	-1	?NE	2	–	b	1	–	46	29	o.bc	bc	c.b.bx	*
	Dover	1005·1	40	NE	4	b	1014·7	*	39	+1	NW	2	–	b	3	0·3	45	33	o.c	cpr.bc	bx	1·0
	Wick	1004·6	35	W	1	o	1005·4	-1	35	-4	NE	2	–	c	3	1	42	27	cmpq	c.om	bcsp.c	*
	Nairn	1005·8	37	NW	1	bc	1002·3	*	32	-6	–	0	–	oq	1	0·3	44	28	c.bc	bcph.c	bcx	5·9
	Aberdeen	1005·5	38	WNW	4	c	1004·0	-2	35	-2	SSE	2	–	o	2	1	45	30	bcsqp	bcqp.c	c.b.o	6·0
	Leith	1006·2	43	NW	2	c	1002·5	-3	35	0	SE	1	–	om	2	–	48	32	c.bc.b	c.bc.c	c.bspo	*
	Tynemouth ...	1006·3	41	NNE	2	bc	1006·5	-2	35	+1	WSW	2	W	cm	3	–	43	33	cp	bc	cm	*
	Spurn Head ...	1006·6	42	N	5	bcq,v	1010·1	0	37	+2	W	3	–	c.	4	–	44	34	bcq	bcq,v	b	10·7
	Yarmouth ...	1005·5	40	NE	4	bc	1012·7	+2	35	-3	NW	2	–	bmx	2	–	45	32	bc	bc	bcmx	8·5
	Clacton-on-Sea	1005·5	46	NE	3	bc	1012·8	+2	36	-1	WNW	2	–	bc	2	–	47	32	o.c	c.bc	bcx	4·8
	Nottingham ...	1007·6	43	N	3	b	1011·1	*	36	+4	SW	2	–	o	*	Trace	49	30	bc	bcp	b	8·8
	Benson (Oxon.) ...	1007·0	45	NNW	3	b	1012·9	0	34	+2	SSW	1	–	bx	*	–	48	25	bc	bc	b	*
	Sth Farnborough	1006·2	44	NW	2	b	1013·8	+1	37	+2	WSW	2	W	bc	*	Trace	50	29	bc.c	cprs.b	bx.bc	8·4
	London (Kew Obsy.)	1006·8	45	NNW	2	bz	1014·2	+1	36	+1	WSW	2	W	cmx	*	Trace	48	32	bc.b.bc	bc.b.bz	bz.cmx	8·9
NORTHERN EUROPE.	Spitsbergen ...	1016·3	14	E	2	o	1016·0	0	12	0	SE	6	*	o	*	*	18	3				
	Vardö															*						
	Bodö	990·3	39	SE	1	o	1000·8	+4	37	+5	W	1	–	c	1	?	39	28				
	Christiansund ...	996·4	37	W	3	b	999·9	0	37	-2	–	0	N	b	3	1	41	37				
	Skudesnaes ...	996·3	39	W	4	o	1001·4	+3	37	-2	NNW	5	–	o	4	4	41	34				
	Færder (X'lania Fjord)	1000·8	36	S	3	b	1001·5	+1	37	0	–	0	–	o	2	–	39	36				
	The Scaw (Skagen)	1000·3	39	SSE	1	c	1002·2	+1	37	-2	W	1	–	f	2	–	43	34				
	Blaavands Huk	1001·6	39	NW	1	o	1006·6	+3	39	0	NW	3	–	bc	2	Trace	45	36				
	Copenhagen ...	1001·4	41	SSE	2	m	1000·8	-1	39	-2	N	2	–	c	*	–	48	36				
	Bornholm ...	1002·6	36	ESE	2	m	999·5	-3	32	-9	NE	4	–	f	1	–	46	30				
FRANCE, &c.	The Helder ...	1003·5	39	N	3	c	1009·6	+4	39	-2	NW	3	–	c	2	–	43	39				
	C. Gris Nez ...	1004·8	40	NE	4	bc	1013·8	+3	39	+2	WNW	3	*	m	2	Trace	43	37				
	La Hève	1005·4	39	NNE	3	c	1015·0	*	37	0	N	3	*	c	3	1	43	37				
	Brest (St. Mathieu)	1014·6	45	NW	5	c	1021·4	+2	46	+3	?W	4	*	bc	3	–	48	39				
	Rochefort (Ile d'Aix)	1009·5	48	NNW	6	c	1021·8	+5	45	-3	NNW	5	*	bc	*	4	50	41				
	Biarritz												*									
	Paris	1002·4	38	N	4	n	1015·2	+5	41	+2	NNW	2	–	b	*	12	55	37				
	Belfort	1004·6	39	W	4	o	1011·4	*	35	-9	W	6	*	o	*	4	50	34				
	Lyons	1002·2	47	–	0	o	1014·2	*	36	+2	NW	5	*	s	*	6	53	35				
	Nice	1002·3	48	WSW	5	c	1000·0	-4	47	-3	E	4	*	b	4	1	57	41				
	Perpignan ...	1008·2	49	NW	3	o	1017·4	+5	44	-4	NW	6	N	b	*	4	63	32				
	Sanguinaire ...	1006·4	54	NW	5	bc	1006·6	*	54	—	W	5	*	o	6	16	54	43				
SOUTHERN STATIONS.	Corunna	1020·8	50	N	5	b	1020·4	*	46	-4	?	4	+	bc	3	1	52	39				
	Madrid	1014·3	45	NNW	4	bc	1028·4	+4	39	-2	?–	0	–	b	*	2	54	30				
	Lisbon	1020·8	55	NNW	4	b	1026·2	+2	46	-4	NNW	3	–	b	5	–	59	45				
	Azores (Horta) ...	1024·3	*	SE	4	c	1027·6	+2	55	+1	NE	5	*	bc	2	–	63	54				
	Madeira	1023·0	59	NE	3	c	1024·4	0	54	+2	ENE	3	N	bc	3	–	61	54				
	Gibraltar	1023·3	54	NW	4	b	1024·4	*	51	—	NW	3	*	m	2	–	63	48				
	Malta	*	*	*	*	*	1015·8	+3	57	-4	NW	4	–	o	4	–	70	57				
	Limassol	*	*	*	*	*	1013·8	+2	75	+9	–	0	–	b	0	–	75	52				
	Alexandria ...	1015·5	64	NNE	2	b	1016·2	0	68	+2	–	0	–	b	1	–	73	61				
	Cairo (Helwan) ...	1014·3	75	NE	3	b	1016·2	+3	64	0	–	0	–	b	*	–	86	59				

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)	59	68	8·3	51	32	26	–	bc.c	c	c.b
CITY (Bunhill Row)	*	*	7·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	49	67	6·4	51	31	30	–	bc	bc	bc b.o
CAMDEN SQ. (British Rainfall) ..	?	66	8·3	52	31	28	Trace	–	–	*
HAMPSTEAD (Reservoir)	*	79	11·1	48	29	20	Trace	bc	bc	op bcx
S. KENSINGTON (Museum Grounds)	*	65	6·9	51	33	27	Trace	b.bc	bcb	b.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1435	28.9	78.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

NOTE

Deerness
3cm. snow lying at 7h.

Glasgow
1cm. Snow lying at 7h.

RAINFALL.

Equivalents of Millimetres in Inches.

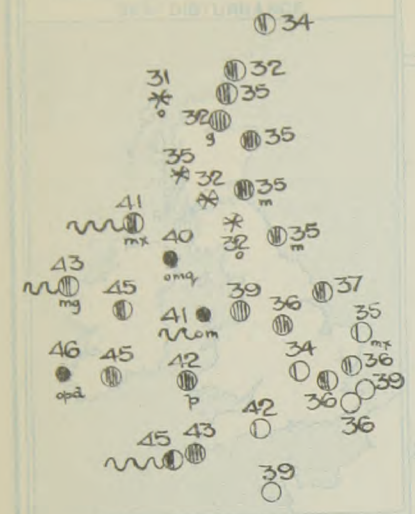
mm.	Inches.	mm.	Inches
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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	1·92
25	0·98	50	1·97

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

THE MORNING OF Monday, 16th APRIL, 1917.

GENERAL INFERENCE

The depression over the West of Scotland is likely to move in an ESE direction to the North Sea.



EXPLANATION.

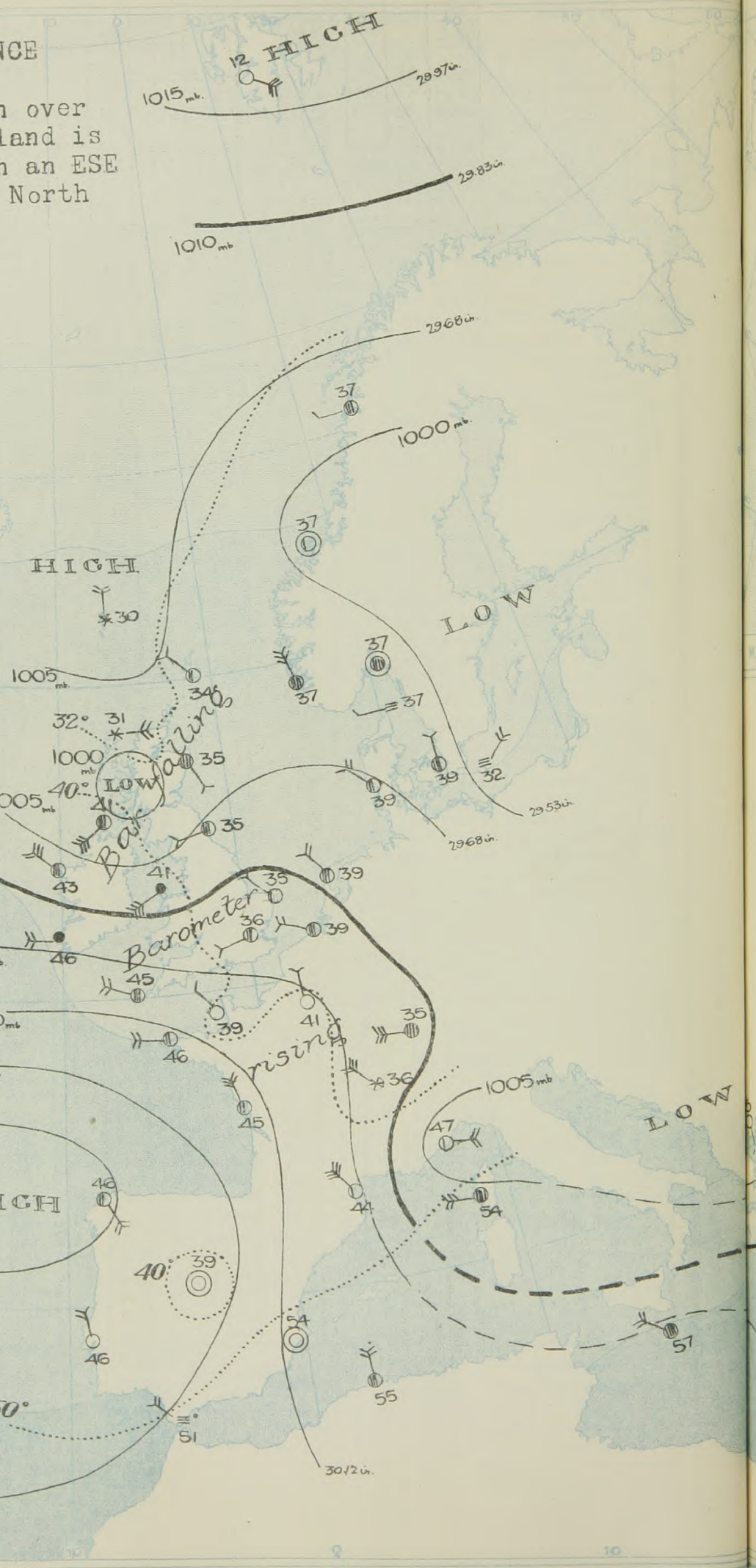
BAROMETER.—Isobars are drawn for intervals of five millibars.

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.

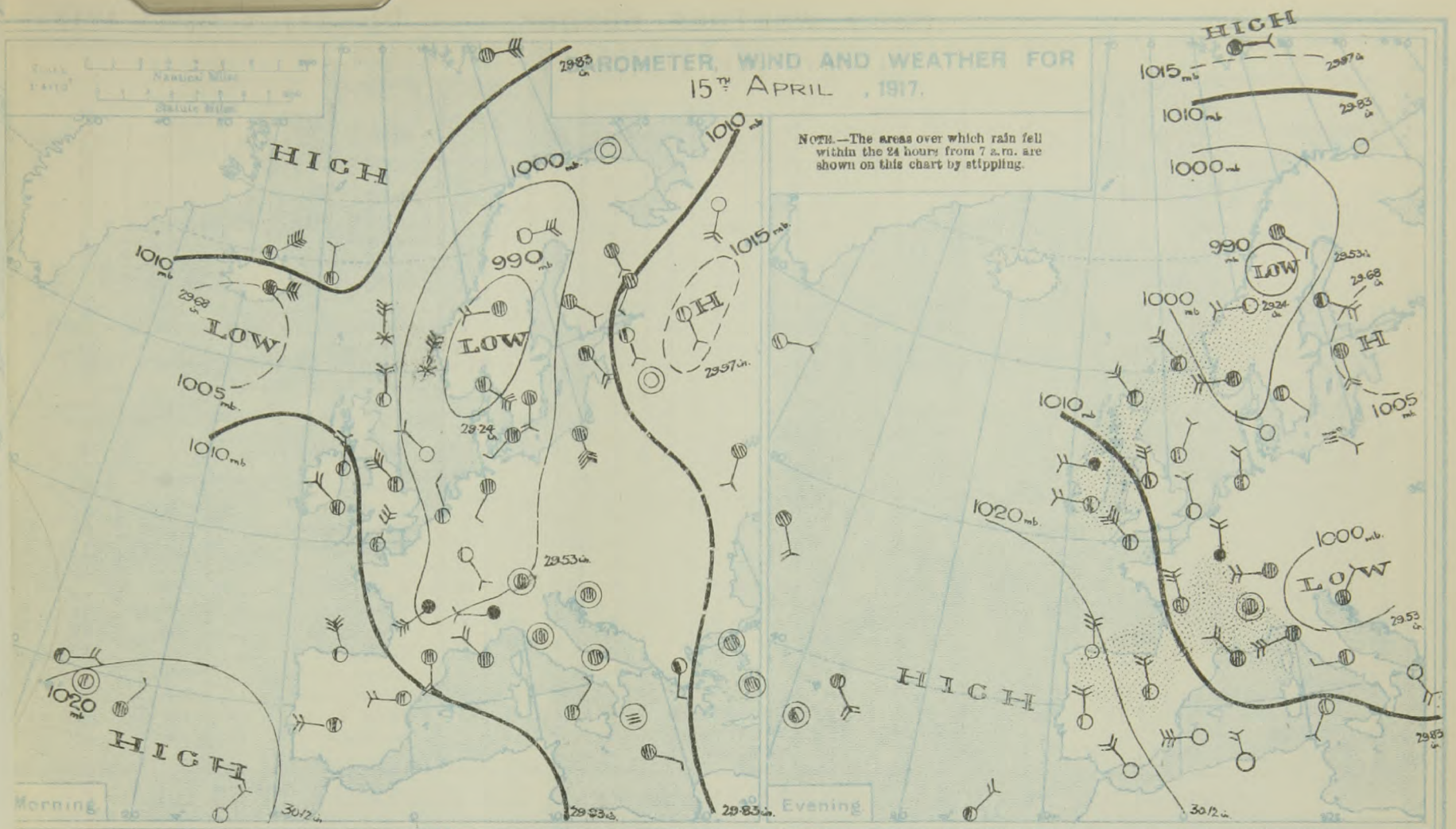
SEA DISTURBANCE.—Rough ~~. High ≈≈.

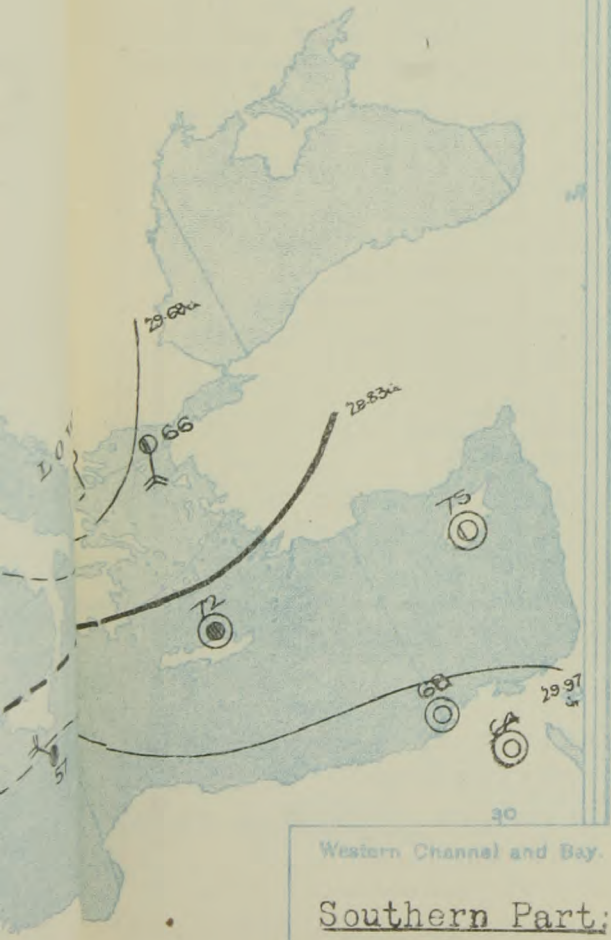


ROMETER, WIND AND WEATHER FOR

15TH APRIL , 1917.

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





Forecasts Noon Monday to Noon Tuesday

0{a b} 1 Moderate to fresh winds between E and NE. Unsettled, some snow. Remaining cold.

2{a b} 3 Fresh or strong SW winds veering W or NW later. Unsettled, some showers. Somewhat milder today, then cool again.

4{a b c} 5 Same as Nos. 0 and 1

6{a b} 7{a b} 8{a b} 9{a b} 10{a b} Fresh or strong winds from between SW and W, veering later. Dull some showers, then improving. Rather cold.

11 Northern part: Fresh NW winds, Rather rough sea fair some showers.
Southern Part: Variable winds, Moderate sea. Unsettled.

FURTHER OUTLOOK.

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

Issue No. 20,234

DAILY WEATHER REPORT.

Monday, 16th April 1917.

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 ...	1007·6	36	S	4	r	1010·1	+4	36	+4	SW	4	b	—	*	32
	Gorki	1012·6	41	—	0	o	1009·8	o	39	−4	WNW	1	r	9	*	39
	Velieki Luki ...	1013·9	43	S	1	o	1013·7	*	43		N	2	bc	—	*	37
	Hangö	1009·0	34	WSW	2	o	1011·8	+1	30	−2	S	2	c	—	*	27
	Riga	1013·1	37	—	o	b	1014·1	+1	37	o	—	o	b	—	*	30
	Petrograd ...	1013·5	36	SW	4	c	1016·2	+2	36	−1	S	2	bc	—	43	32
	Moscow	1016·2	54	NW	2	o	1012·8	+1	48	+3	SE	2	o	—	*	45
	Kiev	1010·7	57	SE	4	bc	1011·0	o	52	+2	SW	2	o	—	*	32
	Kharkov ...	1015·5	56	SE	1	b	1015·3	+1	46	o	ESE	1	c	—	*	43
	Kishinev ...														*	
	Elisabetgrad ...	1014·3	54	SSW	2	b	1014·1	o	46	o	S	3	o	—	*	41
	Nicolaiev ...	1015·2	48	SSW	3	c	1015·4	*	48		S	4	o	—	*	46
	Odessa	1015·3	50	SW	4	o	1014·6	o	48	−2	SSW	3	o	—	*	48
	Tarkhankout...	1016·3	48	SW	4	o	1018·0	*	48	o	SSE	4	o	—	*	46
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1008·1	54	—	o	o	1006·2	*	54	+2	—	o	o	Trace	59	52
	Pesaro						1007·1	*	54	o	—	o	c	Trace	64	48
	Rome	1008·6	61	—	o	b	1008·2	*	55	−6	—	o	o	—	70	52
	Viesti	1008·5	59	—	o	o	1008·7	*	59	+2	—	o	o	—	66	54
	Brindisi	1009·0	59	SE	1	bc	1009·5	*	59	+8	S	1	c	—	66	51
	Cagliari	1008·3	66	NE	3	b	1009·1	*	61	o	NE	1	c	—	68	52
	Palermo	1007·8	64	—	o	f	1007·4	*	61	−7	—	o	f	—	84	53
	Tripoli							*								
	Algiers															
SWEDEN.	Hernösand ...	999·0	34	S	2	b	1002·0	*	34	+9	SE	2	o	*	*	*
	Stockholm ...	1004·6	36	S	2	b	1005·9	*	37	+1	SSE	4	o	*	*	*
	Wisby	1004·8	39	SSW	2	b	1006·6	*	43	+6	SSW	4	b	*	*	*

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 ...	1011·9	21	+3	NE	9	c
Reykjavik	1004·6	26	+4	E	7	o
Vestmanna						
Seydisfjord	1014·6	14	−2	N	2	c
Thorshavn	1003·6	34	+3	N	5	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	—	—	45	33	b.bc.o	b.bc.o	6·6
	Banff	1	Trace	44	35	c.bc	bc.cps	3·4
	Montrose	—	—	46	33	bc	bc	5·1
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	3	1	46	27	b.bc	bc.c.op	8·7
	Skegness	Trace	—	44	31	bc	bc	11·8
Eng. N.W.	Morecambe							
	Southport	—	—	?	36	b	b	11·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	—	—	44	36	c.bc	b	11·0
	Colwyn Bay...	*	*	46	35	bc	bc	9·5
	Llandudno	*	*	45	35	c	c.b	10·5
	Aberystwyth	*	*	43	36	or.c	bc.c	8·0
	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	2	—	48	35	bc	bc	5·1
	Walton-on-Naze	5	—	48	36	or.bc.b	o.bc	2·7
	Southend-on-Sea	3	—	50	35	bmx.bc	bc.c.b	5·4
England, S.E.	Margate	*	*	?	33	o	o.c	7·0
	Ramsgate							
	Hastings							
	Eastbourne	4	—	49	36	bc	bc	1·6
	Seaford	*	*					
	Brighton							
	Worthing	4	—	50	35	b	b	7·9
	Littlehampton							
	Bognor	*	*					
	Bournemouth	—	—	50	32	b	b	10·5
England, S.W.	Weymouth...	*	*					
	Torquay	Trace	—	48	32	b	b.bc.b	10·7
	Paignton	*	*					
	Penzance							
	Newquay	1	—	44	36	b	b	9·9
	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.

16th & 17th April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	4·55	11·53	6·50
	4·53	11·53	6·52
Greenwich	5·5	12·0	6·55
	5·3	12·0	6·57
Wick	5·1	12·12	7·24
	4·58	12·13	7·26
Valencia	5·45	12·41	7·37
	5·43	12·41	7·39

NOTES ON YESTERDAY'S WEATHER.

Snow showers were prevalent in the North but elsewhere there was little precipitation. Sunshine measurements were good. Temperature remained below 50°.

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, 1917. No.107 Tuesday, 17th APRIL.

	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.				Hours.
BRITISH ISLANDS.	Lerwick ...	1011·0	34	N	4	bc	1017·1	+1	30	−4	NNW	3	N	bc	3	2	40	29	bcps	bcspq	bc	*
	Deerness (Orkney)	1012·5	32	N	5	ops	1019·3	*	31	−1	NNW	4	N	bc	4	1	40	29	cps	cps.o	pphs.bc	4·1
	Stornoway ...	1017·0	37	NE	6	bcpsq	?1022·3	0	32	+1	NE	1	–	bc	1	2	41	31	bcpsq	bcpsq	c.bc	5·3
	Castlebay (Barra Isd.)																		csr.sp	o.crsp		
	Glasgow ...	1011·4	37	NNE	4	c	1022·6	+3	34	+2	WNW	1	N	c	*	1	42	29	csr.sp	o.crsp	bc ox	3·1
	Eskdalemuir ...	1007·9	33	NNE	6	csq	1022·6	+3	30	−2	N	4	–	b	*	7	41	25	os.o.c	c.csq	csq.bc	3·8
	Malin Head ...	1013·8	39	N	7	bcq	1024·0	+2	38	−3	NNE	2	–	omd	3	3	42	35	bcqp	bcq	bc	6·3
	Blacksod Point	1019·6	41	N	5	bc	1024·9	0	42	−1	WSW	2	–	omp	2	1	47	37	bcp	bc	bz	*
	Valencia ...	1020·2	47	NNW	6	bc	1028·2	+2	35	−11	NE	1	NW	c	3	0·1	50	33	c.or	bc	b	7·6
	Roche's Point	1015·6	48	NW	4	c	1027·7	*	37	−8	NW	2	NW	b	2	0·4	50	36	cpq	cq.c	c.b	*
	Birr Castle ...	1017·3	42	NW	4	c	1026·8	*	33	−12	SW	1	–	o	*	0·2	51	28	cqp	cqp	cx.o	6·4
	Donaghadee ...	1009·9	40	NE	5	bcmq	1023·1	+3	38	−2	NNW	4	N	cq	4	2	46	36	bcqp	bcmqp	bcqp	*
	Liverpool (Bidston)	1004·7	40	W	4	c	1022·6	+6	36	−3	NNW	3	N	b	3	4	46	34	or.c	bcp	bc	3·6
	Holyhead ...	1007·3	43	NNW	6	bm	1023·3	+4	39	−2	NNE	5	–	b	4	4	47	38	cr.cp	cp.b	bcqm	3·8
	Pembroke (St. Ann's)	1010·0	49	WNW	5	c	1024·6	+8	39	−3	N	4	N	bcq	3	1	48	36	cqp	cq.cqp	bcqp	5·8
	Scilly (St. Mary's)	1015·8	48	NW	7	bmq	1026·0	+4	43	−2	N	3	N	c	5	0·2	52	40	bcqp	c.bcmq	b.bc.cq	6·4
	Falmouth ...	1013·2	48	WNW	6	bqz	1024·8	+6	40	−3	N	4	–	b	*	1	51	38	od.a.cq	cqpc.b	b	4·8
	Jersey (St. Aubin)	1013·1	47	W	6	cqp	1020·6	*	42	+3	N	3	N	b	3	2	49	38	bc.o	o.c.cqp	cqpc.b	3·8
	Portland Bill ...	1007·9	46	WNW	6	c	1021·2	+6	40	−2	NNW	5	N	bc	4	1	47	38	b.bc.c	cp	c.bc	*
	Dungeness ...	1002·9	44	WSW	6	bc	1010·1	+7	37	+1	NNW	6	N	c	4	6	47	36	bc	c.or.c	qp	*
	Dover	1006·1	44	SW	5	bc	1011·3	+3	38	−1	N	9	NW	o	4	3	40	30	b.bc.c	c.bc	orq	4·6
	Wick	1013·4	36	N	4	c	1020·2	+2	32	−3	N	4	N	S	4	1	41	19	bmsp.c	bsp	cmps	*
	Nairn	1013·8	38	NNE	4	c	1021·3	*	32	0	N	3	–	bc	3	3	41	30			cqph	2·0
	Aberdeen	1011·4	37	NNE	4	c	1019·9	+3	33	−2	NW	4	–	c	3	1	43	29	o.c	o.csp	cspq	1·4
	Leith	1009·2	38	NE	4	c	1022·4	+3	34	−1	NW	3	NW	b	3	3	39	31	omrs	orq.c	c.bq.b	*
	Tynemouth ...	1002·8	36	NE	5	omqr	1019·8	+5	33	−2	NW	3	N	cm	5	4	45	32	cmps	omqp	cm	*
	Spurn Head ...	1002·1	40	N	3	cp	1016·2	+9	37	0	N	7	–	cqphr	6	4	45	34	rq	rq	cqp	1·7
	Yarmouth ...	1000·4	40	NW	2	bc	1012·2	+13	38	+3	N	7	–	bcqp	6	6	48	35	bcq	bcq.or	bcqmp	5·4
	Clacton-on-Sea	1002·6	38	WNW	4	c	1014·1	+9	38	+2	NNW	4	N	bc	3	6	49	35	bc.co	ogr.c	c.bc.cp	3·6
	Nottingham ...	1002·5	44	WNW	4	o	1019·9	*	36	0	NW	4	N	c	*	5	48	34	or	or.c	o	1·5
	Benson (Oxon.) ...	1004·5	43	NW	5	cpq	1018·8	+9	36	+2	NW	5	–	b	*	4	49	33	or	pqrh	orq	*
	Sth Farnborough	1004·1	46	W	4	r	1018·1	+10	38	+1	NNW	4	–	c	*	2	50	37	bc.or	or.cp	pq.bor.o	3·7
	London (Kew Obsy.)	1003·9	43	WNW	3	ct	1018·7	+11	37	+1	N	5	N	c	*	4	47	36	cx.bc.or	or.ourhqtl.c	c.oq.p.o	4·1
NORTHERN EUROPE.	Spitsbergen ...	1010·3	14	N	6	o	1005·4	0	12	0	NE	3	*	b	*	*	14	9				
	Vardö	1007·8	36	SSW	2	o	1009·9	0	28	—	–	0	–	o	2	*	37	28				
	Bodö	1002·8	37	?NE	1	b	1001·0	−1	36	−1	ESE	1	–	b	1	–	39	32				
	Christiansund ...	1004·6	34	N	6	o	1007·9	+2	34	−3	NW	6	–	S	4	2	41	34				
	Skudesnaes ...	1005·5	36	NNW	4	b	1006·3	+2	36	−1	N	6	–	b	2	–	41	32				
	Færder (X'ianiaFjord)	1001·4	36	–	0	b	1000·4	+1	37	0	NNW	6	–	b	2	–	37	34				
	The Scaw (Skagen)	1001·8	37	W	3	b	1000·8	+1	39	+2	N	3	–	b	3	–	43	36				
	Blaavands Huk	1006·7	37	NW	2	b	1004·8	0	37	−2	NNW	3	–	b	3	–	43	34				
	Copenhagen ...	1001·6	41	N	4	m	999·2	+1	37	−2	NW	4	–	bc	*	–	45	34				
	Bornholm ...	996·8	37	NNW	6	o	996·0	0	36	+4	NW	7	–	m	2	–	39	32				
FRANCE, &c.	The Helder ...	1006·1	41	S	4	o	1006·8	+8	37	−2	NNE	6	–	r	3	7	45	37				
	C. Gris Nez ...	1003·5	43	SW	7	r	1011·1	+10	39	0	NW	8	*	o	8	6	45	37				
	La Hève	1011·1	46	WSW	6	r	1015·5	*	39	+2	N	5	*	o	7	3	46	37				
	Brest (St. Mathieu)	1018·2	48	WNW	5	o	1025·0	+4	44	−2	N	5	*	c	4	1	52	41				
	Rochefort (Ile d'Aix)	1022·2	50	W	4	c	1021·0	+3	47	+2	NNW	6	*	o	*	1	54	45				
	Biarritz	1026·6	50	WNW	3	c	1024·6	+1	48	—	W	5	*	r	4	3	52	45				
	Paris	1012·8	46	SSW	3	r	1011·5	+5	41	0	NW	4	–	r	*	7	54	36				
	Belfort	1018·3	36	W	6	c	1009·8	*	34	−1	W	7	*	o	*	2	39	?				
	Lyons	1020·4	40	–	0	c	1015·1	*	43	+7	–	0	*	c	*	1	46	37				
	Nice	1008·4	48	ENE	4	b	1008·6	−1	48	+1	WSW	4	*	c	S	Trace	57	39				
	Perpignan ...	1008·6	48	WNW	5	b	1020·0	−3	51	+7	W	3	NW	bc	*	–	55	32				
	Sanguinaire ...	1008·6	46	NW	5	m	1015·9	*	50	−4	W	5	*	o	7	2	50	45				
SOUTHERN STATIONS.	Corunna	1037·6	52	NNW	3	b	1031·1	−1	50	+4	N	1	–	o	3	1	54	46				
	Madrid	1025·6	52	S	1	b	1027·9	+1	43	+4	–	0	–	b	*	–	54	34				
	Lisbon	1026·3	57	NNW	4	b	?1026·6	+1	50	+4	NNW	3	–	b	5	–	57	48				
	Azores (Horta) ...	1028·6	*	NE	5	c	1028·8	+1	59	+4	ENE	6	*	o	3	–	64	55				
	Madeira	1028·8	68	ENE	4	bc	1022·3	−2	57	+3	E	3	SW	o	3	–	63	55				
	Gibraltar	1024·7	58	E	1	b	1024·0	*	55	+4	E	4	*	m	3	–	66	50				
	Malta	*	*	*	*	*	1018·3	+2	59	+2	NW	6	–	o	5	–	63	54				
	Limassol	*	*	*	*	*	1013·0	+1	64	−11	–	0	–	c	0	–	80	54				
	Alexandria ...	1013·1	70	–	0	b	1011·6	+1	72	+4	–	0	–	o	0	–	82	66				
	Cairo (Helwan) ...	1013·2	77	NE	2	b	1013·4	+3	77	+13	SE	1	–	b	*	–	90	64				

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)	48	44	3·7	48	36	34	2	b.c.or	or.cdr	od.o
CITY (Bunhill Row)	*	*	1·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	89	73	3·6	48	38	36	3	bc.cdr	r	br.bcu
CAMDEN SQ. (British Rainfall) ..	91	73	2·8	47	36	32	3	o	or	*
HAMPSTEAD (Reservoir)	*	66	3·4	46	33	26	3	bc.op	bc	bcx
S. KENSINGTON (Museum Grounds)	*	72	2·5	48	42	34	·	bc.od	o.c.	rlrb.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
748	15·0	49·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir
Extreme: NNE, 8; 16th at 17 and 19h.
Gusts, 24 m/s.

Scilly
Squall; NW 8: 16th, at 17h, and 21h to 22h.

Dungeness
NNW, 8; 17th, 2–3h.

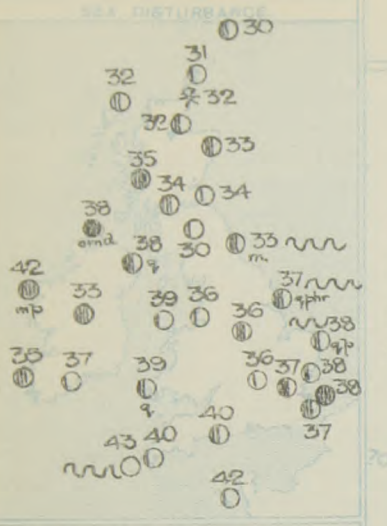
Yarmouth.
NNW, 8; 17th at 2h.
N, 8; 17th at 5h.

Kew
Gusts, 18 m/s; 16th, afternoon.

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

THE MORNING OF Tuesday, 17TH APRIL, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

GENERAL INFERENCE

There are some indications of a new depression on the Atlantic, so that the conditions are likely to remain of a changeable type.

EXPLANATION.

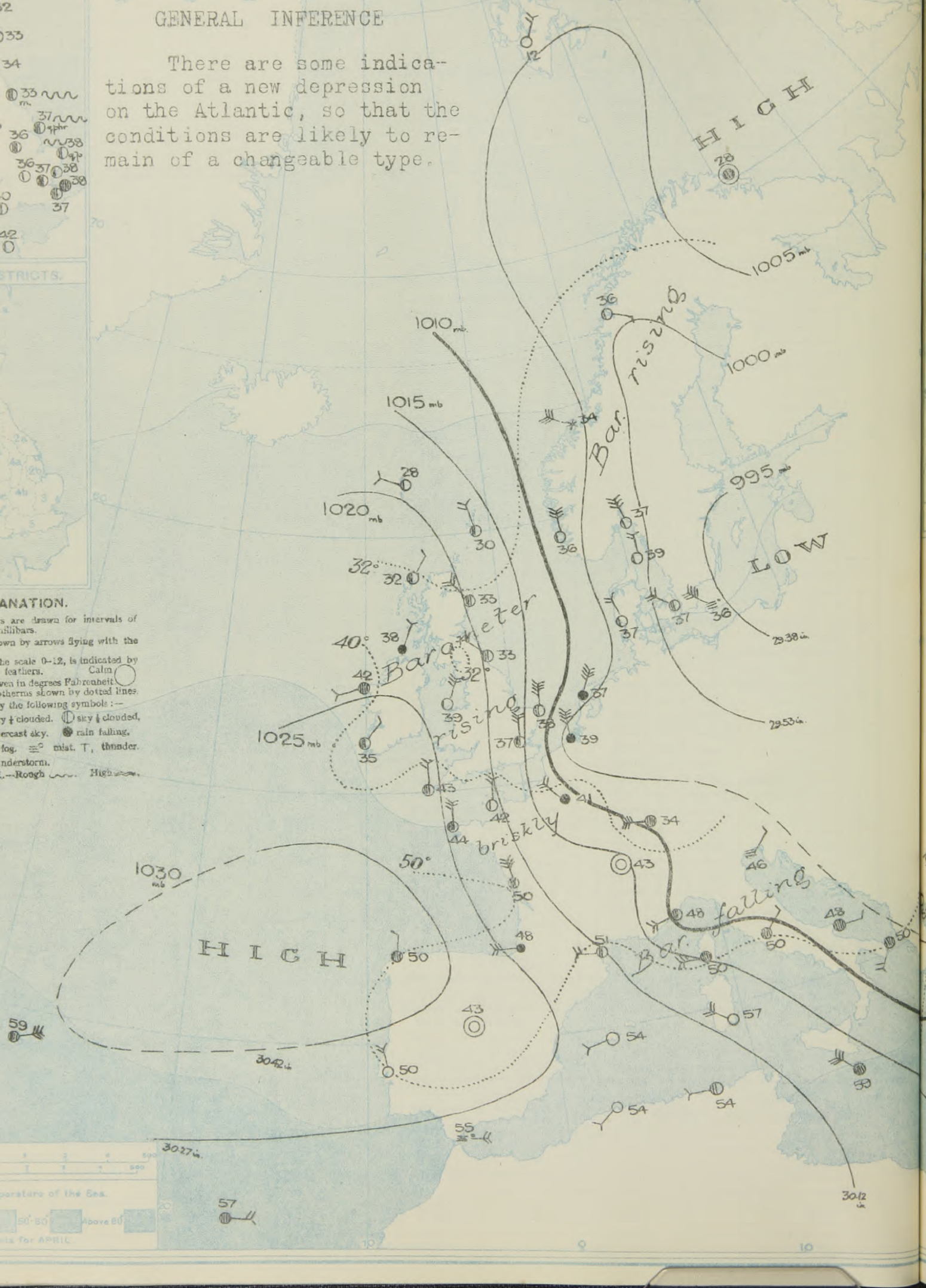
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

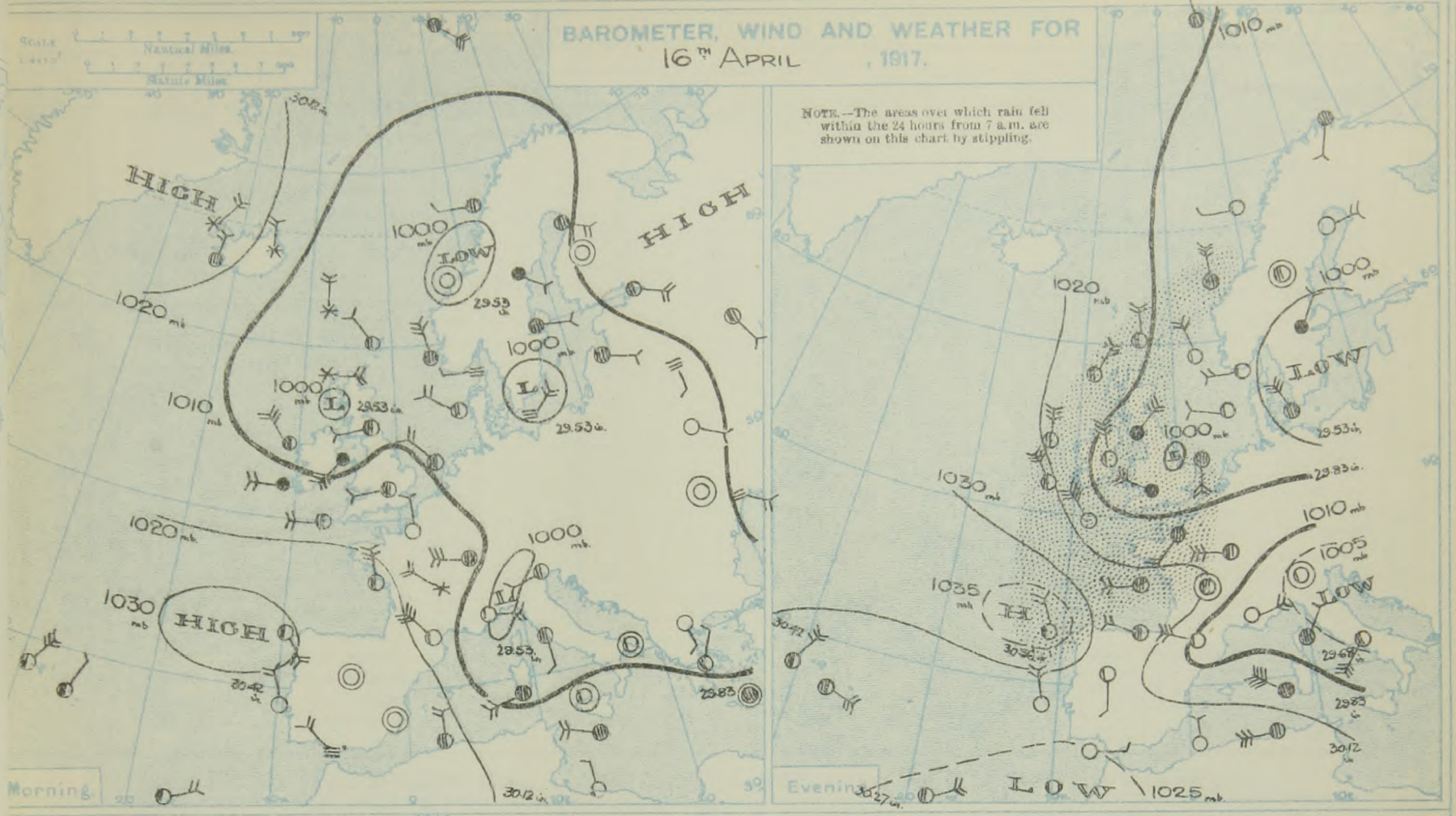
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

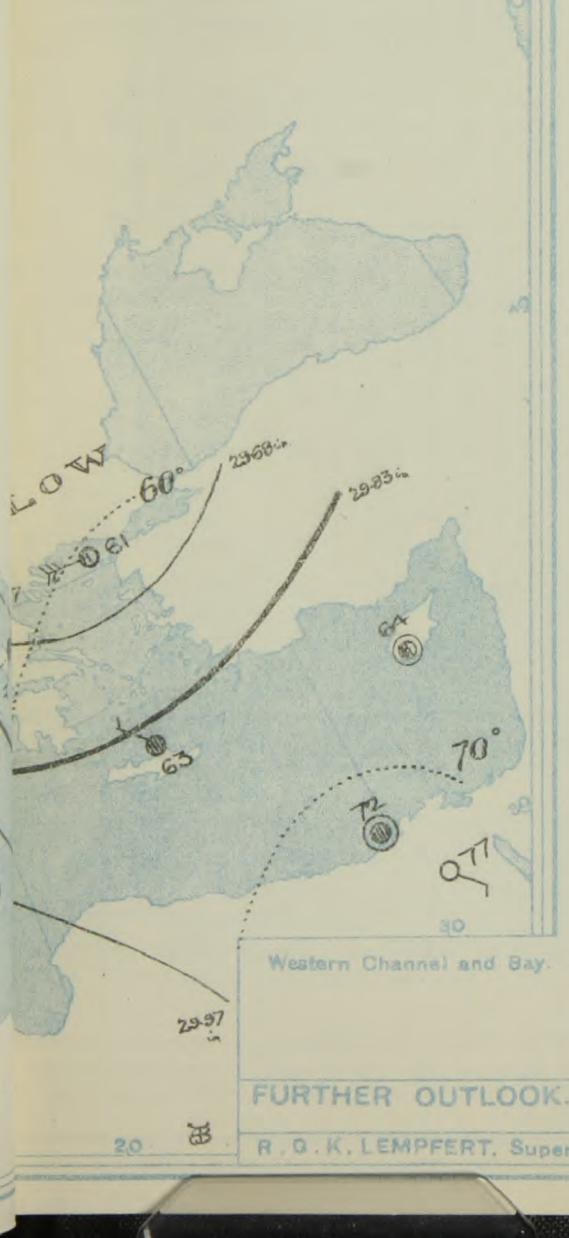
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded,
◕ sky ¾ clouded. ● overcast sky. ☂ rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. T, thunder.
Ts, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.



BAROMETER, WIND AND WEATHER FOR 16th APRIL , 1917.





FORECASTS NOON TUESDAY TO NOON WEDNESDAY

0 (a, b), 1 — Moderate N. breeze, backing again; changeable, some showers, fair intervals; cold.

2 (a, b), 3, 4 (a, b, c), 5 — Squally, strong N. wind, moderating; changeable, some showers, fair intervals; cold.

6 (a, b), 7 (a, b), 8 (a, b) — Same as Nos. 0 and 1

9 (a, b), 10 (a, b) — Light, variable to SW. breezes; changeable, some showers, fair intervals; cold.

11 — Fresh N. wind, moderating; sea rather rough; fair generally, some showers; cold.

FURTHER OUTLOOK.

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

Issue No. 20,235

DAILY WEATHER REPORT.

Tuesday, 17th April 1917.

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 ...	1015·4	34	SW	2	0	1018·9	+3	30	−6	SE	2	b	—	*	25
	Gorki						1009·7	+1	38	−1	S	1	b	—	*	38
	Velieki Luki ...						1010·3	*	40	−3	SE	1	0	—	*	32
	Hango	1011·3	34	ESE	1	0	1006·7	+2	34	+4	ESE	2	0	—	*	27
	Riga						1004·7	+1	45	+8	ESE	2	0	—	*	37
	Petrograd ...	1012·4	43	—	0	b	1012·8	−4	38	+2	ESE	3	bc	—	48	32
	Moscow	1011·7	52	E	1	0	1011·3	0	48	0	SSE	2	c	1	*	47
	Kiev	1011·0	54	SE	3	bc	1006·9	−2	48	−4	SE	3	b	2	*	46
	Kharkov ...	1014·4	57	—	0	b	1013·7	0	50	+4	SW	4	b	—	*	46
	Kishinev ...	1007·3	52	—	0	bc	1004·7	−5	52		—	0	bc	—	*	46
	Elisabetgrad ...														*	
	Nicolaiev ...	1013·7	52	SSE	2	0	1010·7	*	48	0	SE	2	f	—	*	46
	Odessa						1009·3	−3	48	0	S	4	0	—	*	45
	Tarkhankout...	1014·7	50	SSE	4	c	1011·3	*	48	0	SSE	5	0	—	*	46
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	998·3	52	NE	1	0	1000·7	*	54	0	WSW	2	bc	10	55	48
	Pesaro	1001·5	50	W	2	b	1003·7	*	54	0	—	0	0	5	57	48
	Rome	1008·3	55	W	1	c	1007·7	*	55	0	S	1	c	1	64	55
	Viesti	1003·0	66	SW	1	bc	1005·8	*	57	−2	SE	1	b	—	66	52
	Brindisi	1007·1	61	SE	3	b	1009·5	*	57	−2	—	0	b	—	73	57
	Cagliari	1011·0	61	NW	5	b	1011·0	*	59	−2	WSW	4	0	5	66	50
	Palermo	1011·0	63	SSW	2	bc	1013·5	*	55	−6	—	0	b	—	73	50
	Tripoli						1017·5	*	64		N	1	b	—	?	61
	Algiers	1016·3	55	NNW	3	b	1022·7	+5	55		N	4	c	Trace	55	50
SWEDEN.	Hernösand ...	1001·6	36	ESE	4	c	1003·8	*	34	0	SE	2	f	*	*	*
	Stockholm ...	1005·8	36	S	4	0	1002·1	*	37	0	E	2	0	*	*	*
	Wisby	1004·3	39	E	2	0	999·1	*	39	−4	—	0	m	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weath
		°F	°F			
Isafjord ...	1022·6	21	0	NE	4	S
Reykjavik	1020·4	23	−2	N	3	0
Vestmanna						
Seydisfjord	1019·9	16	+2	S	3	S
Thorshavn	1008·4	30	−4	N	4	S

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	5	45	30	or	bc	3·6
	Banff	1	–	42	26	o.bc	bc.c	4·4
	Montrose	–	2	46	30	o	o	0·0
	Carnoustie	*	*					
	St. Andrews...	1	6	39	27			0·2
Eng. N.E.	Harrogate	Trace	3	45	30	or	c.bc	4·5
	Skegness	–	Trace	46	30	bc.o	o	5·2
Eng. N.W.	Morecambe	2	6	44	38	–	–	3·0
	Southport	4	1	46	36	r.c.bc	c.or.bc	2·1
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	–	3	52	34	c.o	or.cp	2·6
Wales.	Rhyl	Trace	4	47	35	cd.o	r.bc.c	2·3
	Colwyn Bay...	*	*	47	37	op	ph.o	1·8
	Llandudno	*	*	46	38	r	r.p	4·0
	Aberystwyth	*	*	45	36	or.o	c.o	0·5
	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	–	1	49	32	c.o	op.o	3·8
	Felixstowe	–	1	48	32	b.bc	c.or	4·0
	Walton-on-Naze							
	Southend-on-Sea	–	–	47	32	b.bc	bc.c.o	3·9
England. S.E.	Margate	–	Trace	48	37	b.bc.cp	op	4·7
	Ramsgate							
	Hastings	–	1	48	33	b.bc	bc.or.c	5·2
	Eastbourne	Trace	2	48	36	b	bc.or.r	6·0
	Seaford	*	*	45	32	c	r	5·4
	Brighton	–	2	46	35	b.c.o	or	5·2
	Worthing	–	1	47	33	bc	or	4·7
	Littlehampton	*	*	46	33	w	w	4·6
	Bognor	*	*					
	Bournemouth	–	2	50	32	c	cp	2·5
England. S.W.	Weymouth...	*	*					
	Torquay	–	1	51	35	c.bc.c.o	c.op	1·8
	Paignton	*	*					
	Penzance	Trace	1	53	42	cpr	bc	5·6
	Newquay	–	–	50	39	bcq	b.bcq	2·1
	Bude	1	–	50	39	cp	c	1·5
	Ilfracombe	1	1	48	35	or.o	orq	2·1
	Weston-s-Mare	1	2	47	39	r.c	p.bcpq	1·5

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

Tuesday, 17th April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·53	11·53	6·52
	4·51	11·52	6·53
Greenwich	5·3	12·0	6·57
	5·1	11·59	6·58
Wick	4·58	12·12	7·26
	4·55	12·11	7·28
Valencia	5·43	12·41	7·39
	5·41	12·40	7·40

NOTES ON YESTERDAY'S WEATHER.

Temperature continued well below the normal everywhere. Rain fell generally, hail or snow locally, a thunderstorm passing over London. Nearly all stations had more or less sunshine. A Northerly gale was felt in 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; 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, 1917. No. 108 — Wednesday, 18th APRIL.

	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 ...	1017·1	36	N	2	bc	1012·3	−1	36	+6	S	3	—	c	3	0·3	37	30	bc	bc	bc.c	*
	Deerness (Orkney)	1017·3	35	SE	1	c	1010·5	*	38	+7	SSE	5	-	o	4	Trace	38	31	c	c	c.o	5·5
	Stornoway ...	1014·2	36	SSE	5	or	1010·2	+2	45	+13	WNW	4	-	c	3	?7	45	31	bcz	bc.ors	or.ep	4·6
	Castlebay (Barra Isd.)																					
	Glasgow ...	1018·4	35	S	1	ors	1013·6	+1	34	0	NW	1	—	omd	*	5	43	32	c.bcz	c.or.op	ors	6·4
	Eskdalemuir ...	1019·8	34	SW	3	os	1013·7	+1	33	+3	—	0	-	odm	*	8	42	29	b.bc	bc.o.os	os.odm	9·3
	Malin Head ...	1014·0	45	WNW	5	omqr	1014·4	+1	45	+7	WNW	6	-	omrq	6	11	45	37	omd	omqr	omrq	0·0
	Blacksod Point	1020·0	47	WSW	5	omd	1019·2	0	47	+5	W	3	-	omp	4	7	47	42	omr	omd	omr.op	*
	Valencia ...	1026·8	47	WSW	3	c	1025·1	+1	49	+14	WNW	4	NW	o	3	—	50	35	c.o	c.o	b.bcc.o	2·1
	Roche's Point	1025·6	48	W	2	o	1022·1	*	49	+12	NW	4	-	o	4	0·1	51	37	b.op	oq	o	*
	Birr Castle ...	1022·6	46	W	2	r	1019·7	*	48	+15	W	2	-	o	*	3	48	33	om.o	op	or.o	0·0
	Donaghadee ...	1017·1	41	SW	3	omr	1014·1	+2	47	+9	W	3	-	omp	3	3	47	38	omq	omqr	omr.oq	*
	Liverpool (Bidston)	1022·3	40	W	3	o	1013·4	-0	44	+8	WSW	4	W	od	4	6	44	36	b	bc.o	or	8·9
	Holyhead ...	1022·1	40	SW	5	omr	1015·7	+1	46	+7	W	6	—	ofe	5	8	46	39	b.bc	c	or.od.o	5·6
	Pembroke (St. Ann's)	1025·8	42	WSW	3	or	1019·0	+2	45	+6	SW	4	W	c	4	11	45	38	bc	c.o	or	6·6
	Scilly (St. Mary's)	1028·7	45	WNW	3	c	1023·9	-2	47	+4	WNW	5	NW	c	4	—	50	41	bc.c	bc.c	c.bc.c	8·3
	Falmouth ...	1027·5	43	NW	3	c	1021·8	-2	46	+6	WNW	4	—	o	*	1	47	40	b.bc	bc.c	bc.od	7·2
	Jersey (St. Aubin)	1026·2	45	WNW	3	b	1020·4	*	45	+3	W	4	-	or	3	3	47	41	bc.b	b	b.or	9·0
	Portland Bill ...	1024·2	45	NW	4	c	1017·0	-3	45	+5	W	4	W	cr	4	3	47	40	bc	bc.c	bc.cr	*
	Dungeness ...	1021·8	42	N	3	bc	1015·6	-5	42	+5	WSW	4	—	or	3	3	46	37	bcq	bcq	c.bc.or	*
	Dover	1022·6	37	N	3	b	1014·2	-4	?		SW	4	W	r	4	3	45	31	o.c.bc	bc.b	bc.opr	8·1
	Wick	1017·2	35	SE	2	o	1010·6	-1	39	+7	S	3	—	o	4	Trace	39	26	emps.c	c.omg	o.b.c.op	*
	Nairn	1016·3	39	-	0	cq	1011·6	*	37	+5	—	0	-	odm	1	2	42	31	bc.c.bc	bc.c	omd	6·3
	Aberdeen	1018·3	39	-	0	bc	1012·8	+1	37	+4	S	2	-	op	2	Trace	41	32	bcq.bc	c.bc	bc.op	8·6
	Leith	1018·5	38	W	1	r	1012·6	0	36	+2	W	1	-	o	2	5	43	33	b.bc.c	bc.c.od	d.or.o	*
	Tynemouth ...	1020·1	38	NNE	1	bc	1013·5	0	35	+2	S	1	-	omd	3	2	40	32	bcq	bcq	omr	*
	Spurn Head ...	1021·6	38	NNE	4	bcq	1013·6	-3	36	-1	W	1	-	or	4	30	40	33	cqp	bcq	or	4·2
	Yarmouth ...	1021·2	37	N	5	bc	1015·0	-3	35	-3	S	4	-	oqps	4	4	48	31	bcqps	bcqps	bcm.os	7·4
	Clacton-on-Sea	1021·4	41	NNW	4	bc	1014·0	-5	38	0	WSW	2	-	r	2	3	44	33	bc.cp	bc.c.bc	bc.bor	7·4
	Nottingham ...	1023·0	42	NW	4	b	1012·9	*	43	+7	W	2	W	rm	*	3	45	35	c.bc	bc.b	bc.od	8·9
	Benson (Oxon.) ...	1022·3	45	NNW	2	b	1013·5	-4	44	+8	W	3	—	o	*	3	46	35	bc	b	or.o	*
	Sth Farnborough	1022·0	46	WNW	3	b	1014·2	-3	43	+5	W	3	-	or	*	4	48	35	c.bc.o.bc	bc.b	b.or	9·9
	London (Kew Obsy.)	1022·6	45	NW	3	bc	1014·4	-5	41	+4	WSW	2	NW	orm	*	2	46	37	b.o.c	c.o.bc	bc.orm	7·3
NORTHERN EUROPE.	Spitsbergen ...	1006·7	9	NW	1	b	1007·8	+1	-4	-16	—	0	*	c	*	*	14	-13				
	Vardö	999·2	34	ESE	1	s	998·3	0	36	+8	N	2	-	r	2	*	36	34				
	Bodö	1001·2	37	W	1	b	1002·2	0	37	+1	W	2	—	b	1	-	39	34				
	Christiansund ...	1005·0	36	NNW	4	c	1010·2	0	36	+2	NNW	3	—	c	4	2	37	30				
	Skudesnaes ...	1009·8	36	NNW	6	b	1010·2	0	37	+1	N	4	-	b	2	-	39	30				
	Færder (X'tiania Fjord)	1002·6	39	NW	3	b	1005·0	+2	37	0	NNW	6	-	b	2	-	41	32				
	The Scaw (Skagen)																					
	Blaavands Huk	1007·1	37	NW	5	bc	1008·8	+1	37	0	NNW	4	—	c	4	-	41	34				
	Copenhagen ...	1002·8	41	NNW	3	b	1005·4	+3	37	0	NNW	2	-	b	*	-	45	34				
	Bornholm ...	999·9	37	WNW	6	b	1003·9	+2	36	0	W	2	-	c	1	-	43	32				
FRANCE, &c.	The Helder ...	1016·3	39	NW	6	c	1016·0	0	37	0	WNW	3	—	c	3	Trace	41	36				
	C. Gris Nez ...	1017·4	38	NNE	3	b	1015·6	-5	40	+1	SW	4	*	r	4	6	43	34				
	La Hève	1023·6	40	NW	4	b	1019·9	*	39	0	WSW	4	*	r	5	2	43	37				
	Brest (St. Mathieu)	1029·2	46	N	4	bc	1025·1	-2	46	+2	WNW	4	*	c	3	-	48	44				
	Rochefort (Ile d'Aix)	1025·9	48	NW	5	bc	1027·0	-1	44	-3	SSW	2	*	o	*	-	52	37				
	Biarritz	1027·0	50	NNW	3	o	1027·6	0	46	-2	N	2	*	c	3	4	54	41				
	Paris	1022·4	42	N	3	c	1021·2	-2	39	-2	SW	2	—	r	*	2	46	34				
	Belfort	1016·9	34	W	7	s	1024·7	*	30	-4	W	4	*	c	*	4	36	28				
	Lyons	1020·6	39	NNW	4	o	1025·9	*	33	-10	-	0	*	o	*	-	47	32				
	Nice	1005·8	50	W	6	bc	1011·9	+4	49	+1	NE	4	*	b	4	-	63	32				
	Perpignan ...	1020·4	52	NW	4	r	1023·8	+1	46	-5	NNW	4	NW	b	*	Trace	59	32				
	Sanguinaire ...	1012·6	50	NW	6	m	1011·4	*	49	-1	N	3	*	m	?	-	54	48				
SOUTHERN STATIONS.	Corunna	1030·7	54	N	3	b	1029·4	0	50	0	NE	3	—	b	2	-	55	46				
	Madrid	1022·4	59	NE	3	bc	1026·3	+1	43	0	E	1	—	b	*	-	59	36				
	Lisbon	1024·6	59	NNW	4	b	1022·2	0	52	+2	N	2	—	b	5	-	66	50				
	Azores (Horta) ...	1028·2	*	E	5	o	1026·6	+1	55	-4	E	5	*	c	3	-	61	55				
	Madeira	1019·5	63	E	4	c	1017·8	-3	54	-2	NE	3	-	b	3	-	64	54				
	Gibraltar	1021·7	56	SE	2	b	1019·3	*	57	-2	E	6	*	bc	3	-	65	53				
	Malta	*	*	*	*	*	1016·0	+1	59	-2	W	4	—	bc	3	-	61	54				
	Limassol	*	*	*	*	*	1009·8	+3	70	+6	—	0	W	bc	2	-	79	57				
	Alexandria ...	1013·5	66	NNW	5	c	1014·2	+2	68	-4	NE	2	W	o	1	-	79	64				
	Cairo (Helwan) ...	1012·2	79	N	3	bc	1011·9	+1	76	-7	NE	4	-	o	*	-	97	64				

NOTE.

SOLAR HALO was observed yesterday (17th) at :- ESKDALEMUIR, PORTLAND BILL, † NOTTINGHAM and HOLYHEAD.

AURORA was observed last night at ABERDEEN.

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)	52	98	5·7	48	35	28	2	c.o	c.bc	bc.ors
CITY (Bunhill Row)	*	*	6·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	60	99	6·1	48	37	33	2	bc.o	bc.o	bc.bd or
CAMDEN SQ. (British Rainfall) ...	47	95	7·3	47	36	31	3	b	bc.c	*
HAMPSTEAD (Reservoir)	*	99	7·8	45	33	21	2	bc	bx	orm
S. KENSINGTON (Museum Grounds)	*	91	5.0	47	36	31	2	o.c	c.o	odrm
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
938	18.7	72

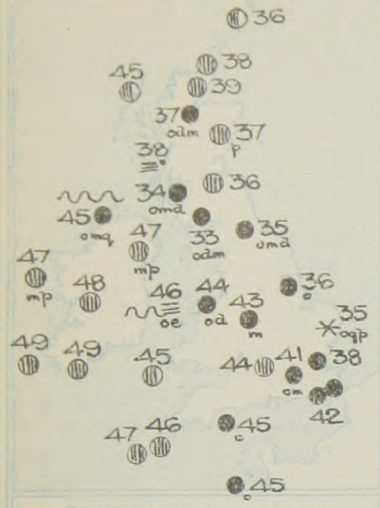
Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

THE MORNING OF Wednesday. 18th APRIL, 1917.

GENERAL INFERENCE

As the V-shaped depression now over Britain passes eastward some improvement will take place in the weather.



EXPLANATION.

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

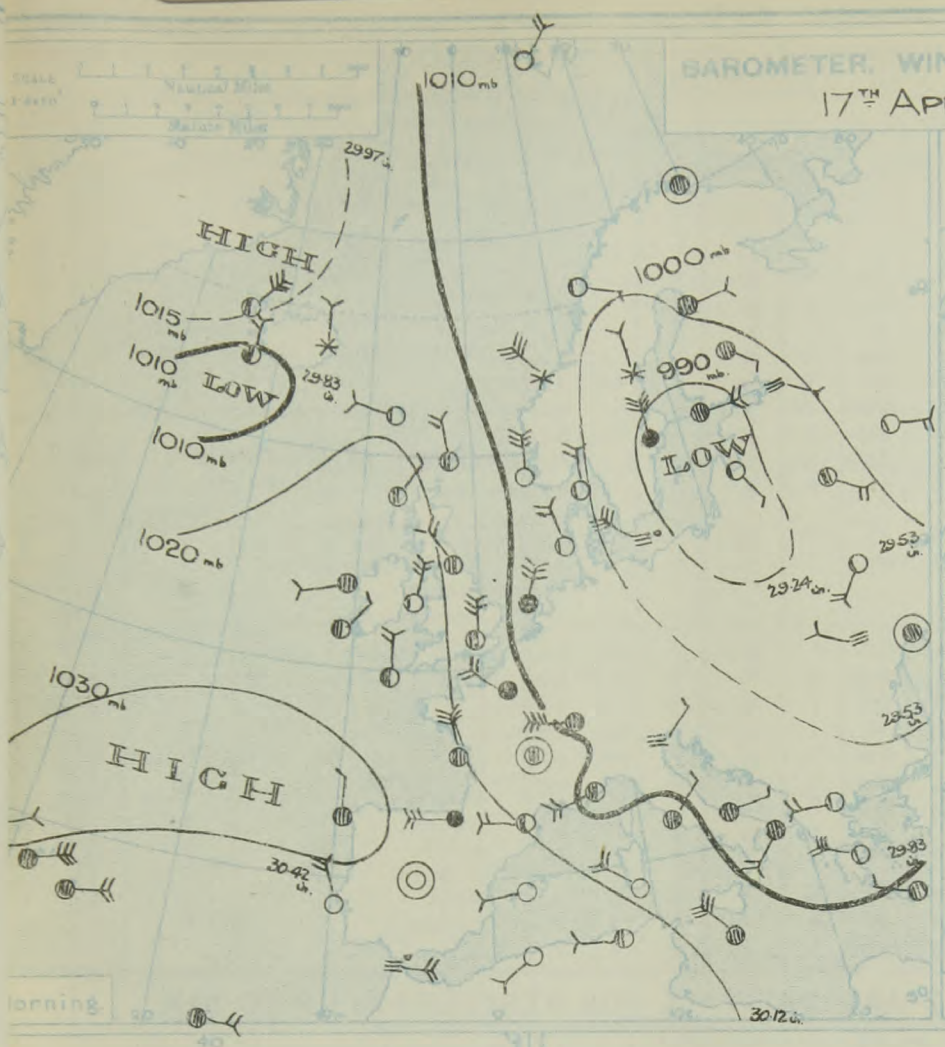
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

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

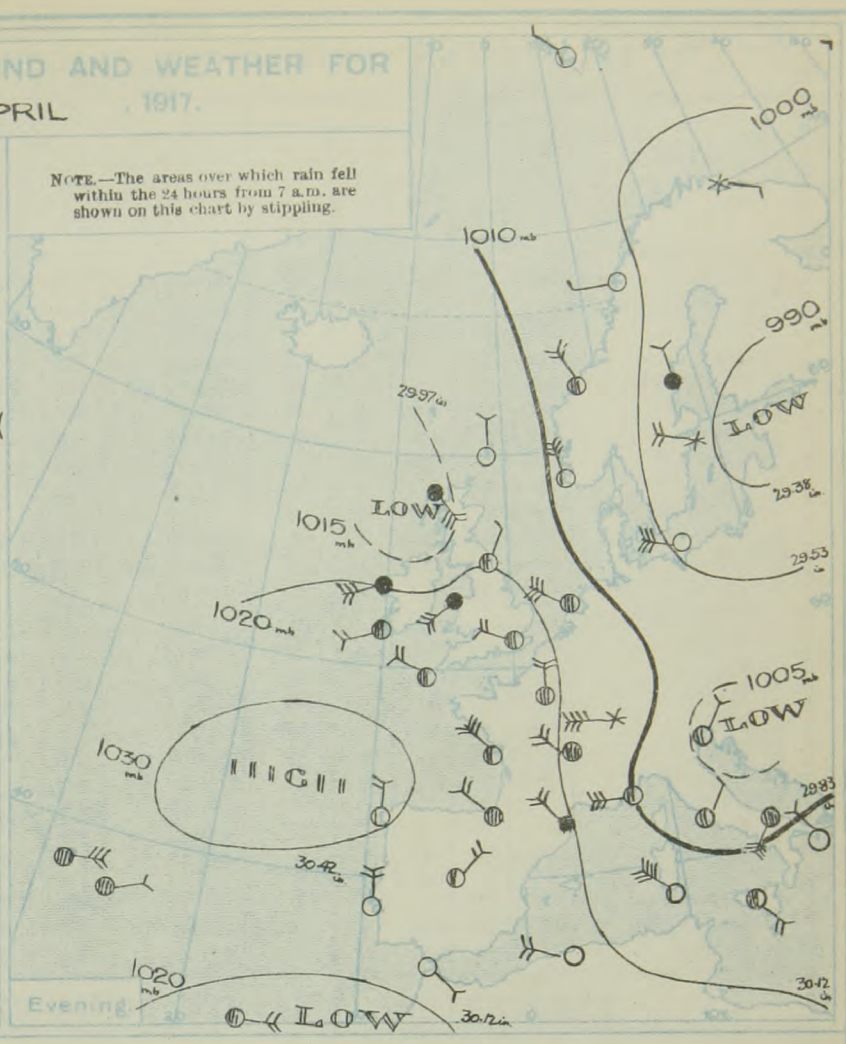
WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder. ⊤ₛ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

BAROMETER, WIND AND WEATHER FOR 17TH APRIL 1917.



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



FORECASTS NOON WEDNESDAY TO NOON THURSDAY

0 a b
1
2 a b

Calm and light variable breezes, finally light or moderate W. or NW. breeze; dull, with rain at first, fairer later; cold.

3

Light to moderate S. breeze, veering W. or NW.; dull with rain or snow at first, fairer later; cold.

4 a b c
5

Light to moderate SW. to W. and NW. breeze; dull, with some rain at first, fairer later; cold.

6 a b
7 a b
8 a b
9 a b
10 a b

Moderate or fresh NW. breeze; changeable, fair intervals, some showers; cold.

11

Moderate NW. breeze; sea moderate, cloudy, some showers; cold.

FURTHER OUTLOOK.

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

Issue No. 20,236 — DAILY WEATHER REPORT. — Wednesday, 18th April 1917.

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 ...														*	
	Gorki	998·9	54	SE	1	b	996·2	-1	48	+10	SE	3	c	-	*	37
	Velieki Luki ...						995·8	*	54	+14	SE	3	c	-	*	46
	Hangö	996·7	39	ESE	4	r	989·2	-2	37	+3	E	4	o	1	*	34
	Riga	991·1	51	ESE	4	o	988·8	-1	52	+7	SSE	1	b	1	*	43
	Petrograd ...	1005·3	41	E	3	o	998·9	-3	41	+3	SE	5	f	-	50	36
	Moscow	1008·6	57	SE	2	o	1006·4	-1	50	+2	ESE	3	b	-	*	46
	Kiev	998·7	59	SE	3	b	993·6	-1	48	0	SW	3	b	-	*	48
	Kharkov ...	1006·0	61	SSE	2	b	999·7	-5	59	+9	SE	3	bc	-	*	50
	Kishinev ...	995·9	59	ESE	1	bc	994·9	+1	46	-6	NW	2	f	1	*	45
	Elisabetgrad ...	1000·8	57	ESE	3	c									*	
	Nicolaiev ...	999·9	55	SSW	4	c	995·9	*	50	+2	-	0	o	-	*	48
	Odessa	991·4	48	SSW	5	o	996·1	-1	50	+2	SSW	2	o	-	*	48
	Tarkhankout ...	1005·6	50	SSE	6	o		*							*	
	Soukhoum ...														*	
Mediterranean.	Venice	1003·5	54	WNW	1	b	1005·7	*	46	-8	NE	1	f	1	59	46
	Pesaro	1003·9	46	W	1	c	1008·3	*	50	-4	SSW	2	b	12	57	43
	Rome	1007·7	45	NE	1	o	1013·1	*	50	-5	NE	1	o	6	59	43
	Viesti	1004·1	52	SW	6	bc	1007·3	*	48	-9	E	1	o	-	66	45
	Brindisi	1007·7	52	W	2	b	1008·3	*	50	-7	SW	3	o	-	68	50
	Cagliari	1016·3	57	NW	8	o	1019·0	*	57	-2	NW	4	b	5	63	48
	Palermo						1017·8	*	57	+2	SSE	3	bc	2	66	50
	Tripoli						1023·5	*	59	0	N	1	b	-	70	57
	Algiers	1025·6	52	N	2	b	1024·2	0	54	-1	SW	2	b	-	61	46
Sweden.	Hernösand ...	1003·0	34	-	0	c	993·7	*	36	+2	N	2	s	*	*	*
	Stockholm ...	997·4	39	NE	2	r	987·9	*	34	-3	N	6	r	*	*	*
	Wisby	992·0	34	NNE	4	r	986·0	*	34	-5	NNW	4	r	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1018·6	19	-2	NE	6	s
Reykjavik	1008·2	32	+9	N	3	c
Vestmanna						
Seydisfjord	1013·2	21	+5	N	2	s
Thorshavn	1019·2	28	-2	WNW	2	b

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	40	33	o.b	cr.o	2·9
	Banff	1	-	40	30	bc.c.s	c.bc	8·7
	Montrose	-	-	42	30	b	b	7·5
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	2	-	42	31	bc.b	b.bc	10·8
	Skegness	3	Trace	41	38	oh	o.bc	7·2
Eng. N.W.	Morecambe	-	-	44	35			10·0
	Southport	-	-	44	33	c.bc.b	b.bc.c.o	10·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	51	33	bc	bc	10·3
Wales.	Rhyl	-	-	43	36	c.bc	bc.b.bc	8·7
	Colwyn Bay	*	*	44	36	c.b	bc	6·0
	Llandudno	*	*	45	37	c	c	6·0
	Aberystwyth	*	*	44	35	r.c.b	bc.c	9·0
	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	2	Trace	43	33	c.o.c	ch.c	7·3
	Felixstowe	6	Trace	44	35	bcq.s	bcq.s	7·4
	Walton-on-Naze	3	Trace	43	34	bch.bc	bch.bc	6·6
	Southend-on-Sea	5	-	45	35	oq.c.bc	bc.bz	5·5
England, S.E.	Margate	2	Trace	43	37	bcsq	bchq	5·6
	Ramsgate							
	Hastings	4	-	46	37	or.bcps	bc	7·2
	Eastbourne	Trace	-	49	38	b.bc	o.bc.b	8·0
	Seaford	*	*	48	36	c	c	7·0
	Brighton	1	-	47	38	o.c	c	7·1
	Worthing	1	-	48	38	bc	bc	7·0
	Littlehampton	*	*	47	38	h	h	8·0
	Bognor	*	*					
	Bournemouth	-	-	50	?.	b	b	?
England, S.W.	Weymouth	*	*	51	37	bc.b	b.bc	9·7
	Torquay	-	-	49	36	b	b.bc.o	10·1
	Paignton	*	*					
	Penzance	-	-	48	41	bc	bc.c	6·8
	Newquay	-	-	45	40	bc	bc	7·9
	Bude	-	-	49	39	bc	bc	5·8
	Ilfracombe	-	-	45	38	bc	bc.c	5·6
	Weston-s-Mare	1	-	49	38	b	b.bc	10·2

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

18th & 19th April 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4·51 4·49	11·52 11·52	6·53 6·54
Greenwich	5·1 4·59	11·59 11·59	6·58 6·59
Wick	4·55 4·52	12·11 12·11	7·28 7·30
Valencia	5·41 5·39	12·40 12·40	7·40 7·41

NOTES ON YESTERDAY'S WEATHER.

Temperature continued much below the normal everywhere. Showers fell generally, snow locally in the north and east. Sunshine exceeded ten hours in several places. An aurora was seen at Aberdeen.

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, 1917. No. 109. Thursday 19th APRIL.

	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 ...	1009·8	42	SSW	2	om	999·5	-2	46	+9	WNW	5	–	oq	4	8	46	36	c·o	om	orq	*
	Deerness (Orkney)	1010·8	44	W	4	om	1004·7	*	45	+7	W	5	W	e	4	5	46	38	o	om	omr·c	0·1
	Stornoway ...	1012·6	47	W	4	od	1009·9	+1	46	+1	W	5	–	cq	4	2	51	45	c	c·od	odrqfq	4·2
	Castlebay (Barra Isd.)																					
	Glasgow ...	1014·5	49	WNW	3	c	1012·5	-2	47	+13	W	4	–	e	*	0·2	51	33	om.op	0·c	c.op	1·4
	Eskdalemuir ...	1014·6	46	NW	2	ou	1014·0	+1	46	+13	SW	4	–	o	*	Trace	47	33	odm.od	og.or	ou.ogo	0·1
	Malin Head ...	1017·5	46	W	4	omr	1017·4	+2	45	0	W	5	–	om	6	2	48	43	fe	omp	om	0·0
	Blacksod Point	1021·4	48	W	3	bcm	1021·7	0	47	0	WNW	3	NW	cgm	3	0·3	49	44	ofe	ome	bc.om	*
	Valencia ...	1025·3	51	WNW	4	c	1025·9	0	48	-1	W	2	–	o	3	–	51	45	o	o·c	b.bc.co	2·4
	Roche's Point	1022·6	50	NW	5	o	1024·5	*	48	-1	WNW	1	–	o	1	–	54	45	o·c·o	og	o.b.o	*
	Birr Castle ...	1021·4	51	W	2	o	1022·0	*	49	+1	W	1	–	o	*	–	53	42	o	o	o	0·0
	Donaghadee ...	1017·1	48	NW	3	og	1016·7	+1	49	+2	W	4	–	ogmpd	3	1	49	41	ogmp	ogm	ogmqp	*
	Liverpool (Bidston)	1016·0	45	W	3	o	1017·8	0	45	+1	WSW	4	W	o	3	3	46	42	8d	oru	or	0·0
	Holyhead ...	1017·6	46	WNW	6	cg	1019·3	+1	46	0	W	5	–	omge	4	0·3	49	45	opd.cf	bc.opd.	e.o	0·0
	Pembroke (St. Ann's)	1020·1	47	W	2	c	1022·4	+2	45	0	WNW	3	NW	bc	3	–	48	44	c·o	o·c	c bc	0·2
	Scilly (St. Mary's)	1023·2	48	NW	5	omp	1025·5	+1	48	+1	NW	3	NW	b	4	0·1	52	46	om.om	omp	o.c.bc.b	0·0
	Falmouth ...	1020·9	49	NW	4	o	1023·6	+1	48	+2	NW	4	–	b	*	Trace	53	46	o·c	bc.cp.o	o.c.b	0·4
	Jersey (St. Aubin)	1018·9	48	WNW	4	o	1021·5	*	48	+3	W	3	W	c	3	1	50	45	op.oqp	o.bc.bc	ogp.c	0·5
	Portland Bill ...	1016·9	47	WNW	4	c	1019·5	0	46	+1	W	4	N	bc	3	0·1	49	44	c	c	c.bc	*
	Dungeness ...	1013·9	44	N	1	c	1018·1	+1	42	0	SW	1	–	gr	2	2	51	41	or.cr	m·c	c.or	*
	Dover	1014·6	44	NE	3	c	1018·6	+2	40		SSW	1	–	f	2	3	47	38	r	rc	c.omf	0·0
	Wick	1011·0	46	NW	3	c	1006·8	0	45	+6	WNW	2	–	bc	2	3	48	39	omp	o.cm	omp.bc	*
	Nairn	1012·2	48	W	3	c.	1009·5	*	46	+9	W	2	–	cg	2	1	53	36	d·c	bc·c	cdgq	1·3
	Aberdeen	1012·4	50	NW	3	o	1009·1	+1	50	+13	W	4	–	o	2	3	50	37	omp	omdp	or.o	0·0
	Leith	1012·7	51	NW	1	c	1011·0	-1	49	+13	W	2	W	c	3	1	52	36	omd.o	oe.o.e	cg.op.c	*
	Tynemouth ...	1013·7	48	–	0	om	1012·5	-1	48	+13	W	3	–	om	3	2	48	35	omp	om	omr	*
	Spurn Head ...	1016·8	40	E	1	om	1015·5	0	44	+5	WNW	4	–	f	5	2	44	36	c	c	om	0·2
	Yarmouth ...	1015·2	39	SE	2	c	1016·3	+2	39	+4	SW	2	–	omr	2	2	40	34	oq.cp	c	bc.omd	0·0
	Clacton-on-Sea	1015·1	41	NE	2	o	1017·7	+2	42	+4	S	2	–	o	2	4	45	37	ogrd	og	ogm	0·0
	Nottingham ...	1015·2	43	S	1	ogm	1016·9	*	49	+6	W	3	W	om	*	2	49	42	r	or	om	0·0
	Benson (Oxon.) ...	1016·3	50	NW	2	o	1018·1	+2	48	+4	W	1	–	o	*	1	51	44	o	o	o	*
	Sth Farnborough	1014·8	51	NW	2	o	1018·3	‡2	48	+5	WNW	2	–	od	*	2	53	43	r.or	or	cd.od	0·0
	London (Kew Obsy.)	1015·6	46	NNE	3	om	1018·6	+2	47	+6	W	2	–	omd	*	2	51	41	omr	omr	om.omr.md	0·0
NORTHERN EUROPE.	Spitsbergen ...	1007·0	0	SSE	1	b	1007·5	+1	-9	-5	–	0	*	b	*	*	5	-13				
	Vardö	996·8	34	N	2	o	1005·6	-2	30	-6	N	3	–	o	3	*	36	32				
	Bodö	1004·6	37	N	1	b	1004·8	-1	34	-3	E	1	–	b	1	–	39	28				
	Christiansund ...	1011·6	37	NW	2	b	1005·2	-5	37	+1	SE	3	–	b	4	1	39	36				
	Skudesnaes ...	1012·0	37	NNW	4	b	1008·7	-3	37	0	SSE	4	–	o	3	–	41	30				
	Færder (X'tania Fjord)	1009·1	39	NNW	2	bc	1012·0	+1	37	0	NNE	1	NE	b	1	–	43	34				
	The Scaw (Skagen)	1007·6	39	WNW	2	b	1011·9	+2	39	0	NNE	2	–	b	2	–	43	34				
	Blaavands Huk	1011·5	37	NNW	3	c	1014·2	+2	39	+2	NW	1	–	c	2	–	41	34				
	Copenhagen ...	1007·9	37	NNW	3	c	1012·8	+3	37	0	N	2	–	bc	*	–	45	34				
	Bornholm ...	1007·0	36	W	2	b	1011·8	+3	36	0	WSW	2	–	m	0	Trace	41	30				
FRANCE, &c.	The Helder ...	1015·3	41	NE	1	b	1017·9	+1	36	-1	S	2	–	o	1	–	43	30				
	C. Gris Nez ...	1014·6	40	NE	3	o	1018·4	+2	40	0	S	1	*	r	2	5	45	37				
	La Hêve	1017·2	43	WNW	5	o	1018·7	*	44	+5	NW	3	*	f	2	4	46	39				
	Brest (St. Mathieu)	1023·2	49	NNW	5	o	1024·8	+1	49	+3	NNW	5	*	o	2	–	52	46				
	Rochefort (Ile d'Aix)	1022·2	49	WNW	5	o	1022·3	+3	49	+5	NW	3	*	o	*	–	52	44				
	Biarritz												*									
	Paris	1014·0	48	WNW	2	r	1020·0	+4	44	+5	–	0	–	o	*	10	48	37				
	Belfort	1017·8	32	WSW	5	s	1019·6	*	33	+3	ENE	2	*	f	*	10	34	30				
	Lyons	?1018·8	39	–	0	r	1017·6	*	39	+6	NNW	1	*	r	*	16	47	33				
	Nice	1010·7	46	–	0	b	1009·0	+2	48	-1	–	0	*	b	3	–	59	39				
	Perpignan ...	1019·6	54	NW	4	c	1018·7	+3	52	+6	NNW	4	N	bc	*	–	57	32				
	Sanguinaire ...	1013·1	53	NW	5	o	1009·8	*	51	+2	W	4	*	o	6	–	54	46				
SOUTHERN STATIONS.	Corunna	1027·2	54	N	6	b	1025·9	0	52	+2	NNE	5	–	b	2	–	55	48				
	Madrid	1018·4	63	ENE	2	b	1021·9	+1	48	+5	NE	2	–	b	*	–	64	41				
	Lisbon	1018·2	70	N	4	bc	1017·6	+1	57	+5	NNE	4	–	b	2	–	70	52				
	Azores (Horta) ...	1025·6	*	E	4	o	1025·0	0	55	0	ENE	2	*	o	2	–	63	55				
	Madeira	1016·3	63	NE	3	bc	1017·0	-1	55	+1	NE	3	–	b	3	–	64	54				
	Gibraltar	1018·6	59	E	5	b	1016·9	*	58	+1	SE	6	*	b	4	–	63	56				
	Malta	*	*	*	*	*	1015·4	+1	55	-2	WNW	4	–	c	2	–	61	52				
	Limassol	*	*	*	*	*	1011·9	+2	63	-7	NW	1	–	o	2	–	75	59				
	Alexandria ...	1014·4	64	NNE	3	c	1016·2	+3	64	-4	NNE	4	W	c	3	–	73	64				
	Cairo (Helwan) ...	1012·2	72	NE	4	b	1013·8	+3	64	-6	N	4	–	bc	*	–	90	59				

GALES
Duration and Extreme Force in British Islands.

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)	99	93	0·0	49	43	42	3	or.o	or.o	or.o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	90	93	0·0	52	45	43	2	odr	oe	or
CAMDEN SQ. (British Rainfall) ..	97	80	0·0	53	44	41	2	od	od.o	*
HAMPSTEAD (Reservoir)	*	99	0·0	48	41	36	3	orm	odm	odm
S. KENSINGTON (Museum Grounds)	*	93	0·0	51	46	44	1	or.od	odm	od.or.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
364	7.2	33.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

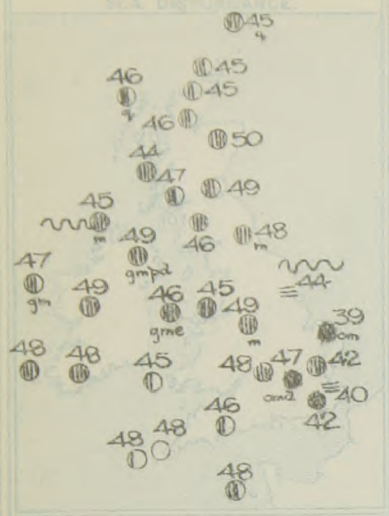
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

THE MORNING OF Thursday, 19th APRIL, 1917.

GENERAL INFERENCE

There are no definite signs of a decided change in the weather conditions.



FORECAST DISTRICTS.

EXPLANATION.

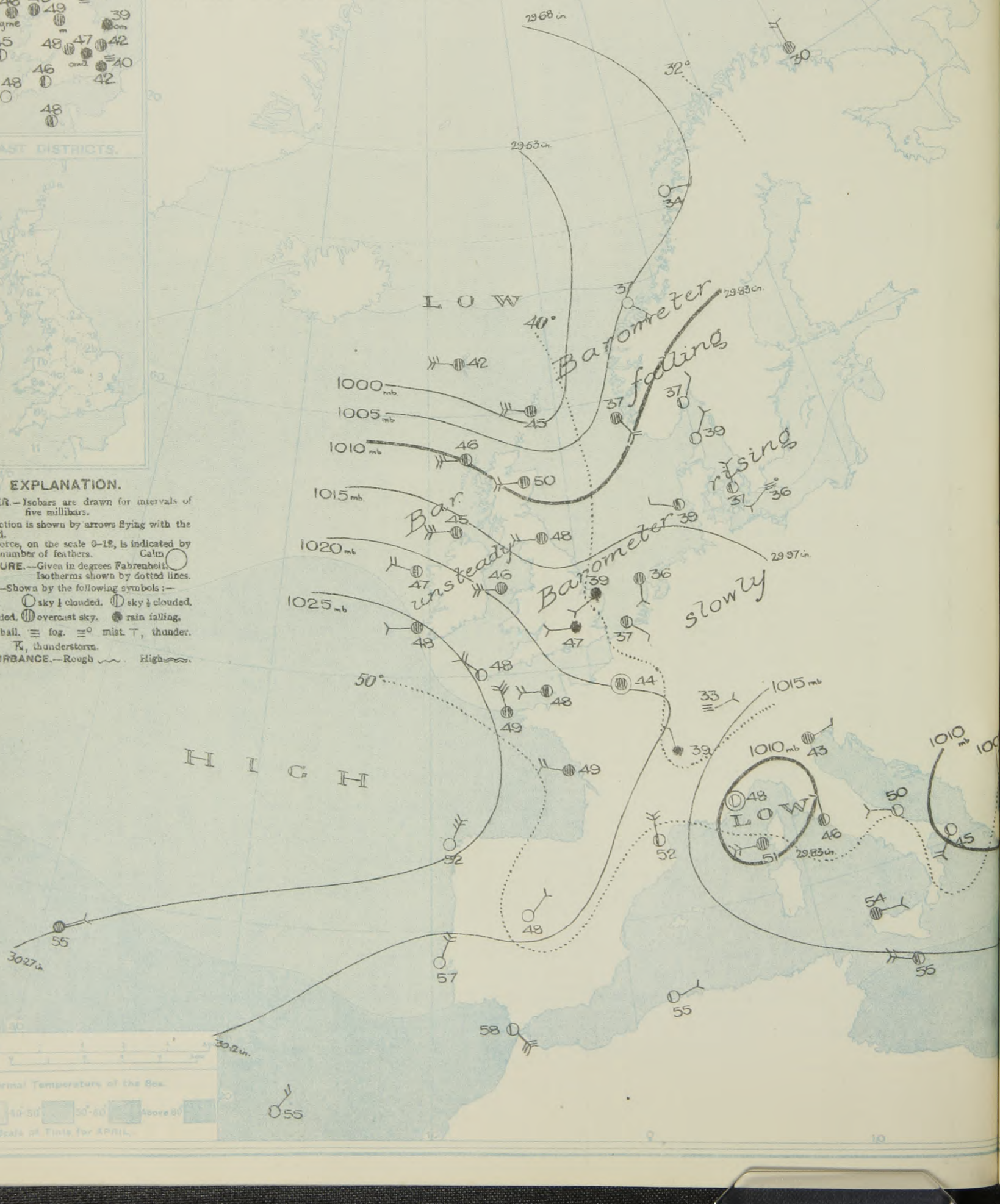
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

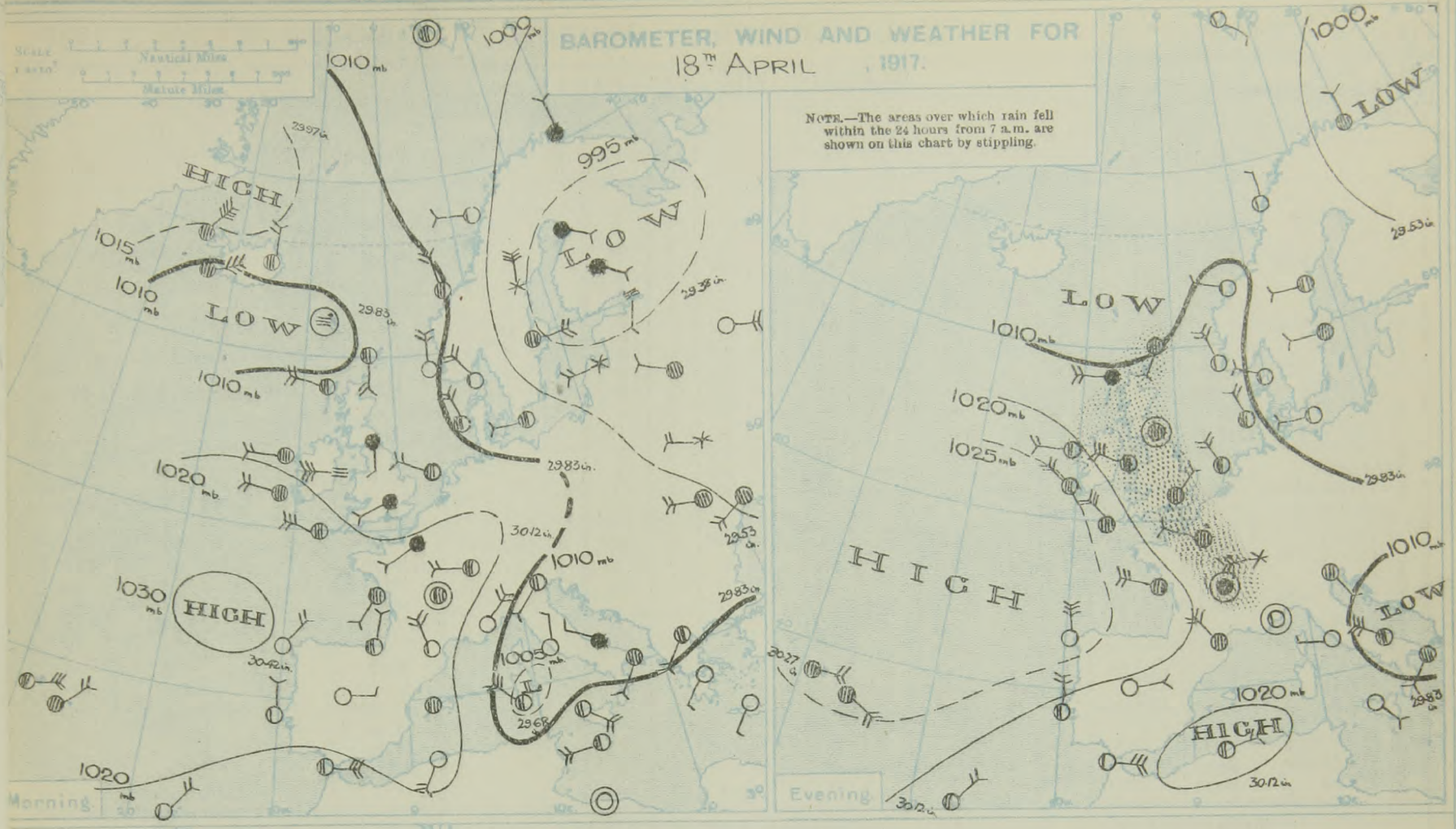
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈



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



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

FORECASTS NOON THURSDAY TO NOON FRIDAY

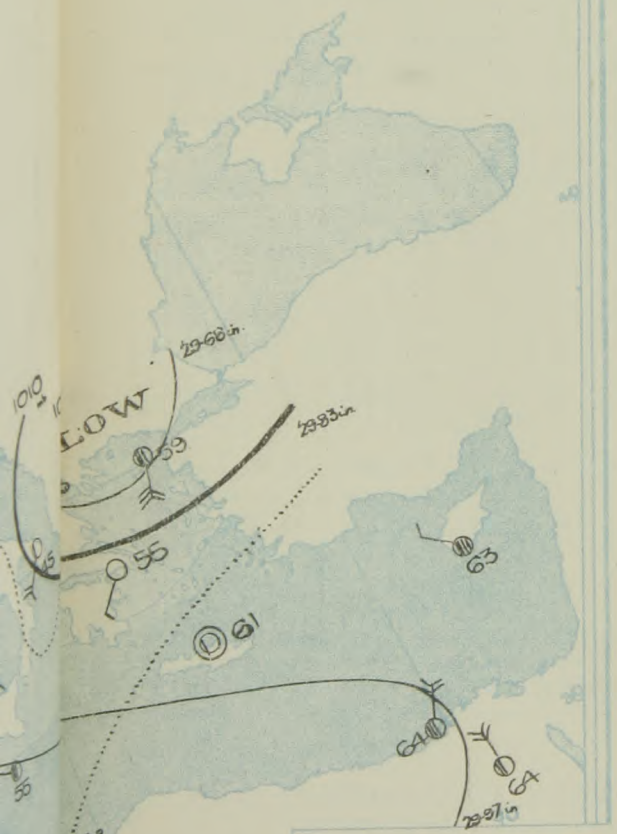
0{a b}, 1, 2{a b} — Moderate W. to NW. breeze; cloudy, some showers; rather milder.

3 — Light variable S. to W. or NW. breeze; dull, damp, some rain, fairer later; rather milder.

4{a b c} — Same as Nos. 0, 1 and 2

5 — Same as No. 3

6{a b}, 7{a b}, 8{a b}, 9{a b}, 10{a b} — Same as Nos. 0, 1 and 2



Western Channel and Bay. 11 — Moderate or fresh NW. to N. breeze; sea moderate; cloudy, some showers; cold.

FURTHER OUTLOOK.

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

Issue No. 20,237

DAILY WEATHER REPORT.

Thursday. 19th April 1917.

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 ...	1009·9	43	SE	3	c	1008·3	+1	41		SE	3	b	—	*	37
	Gorki	995·0	50	W	1	r	998·6	0	37	−11	NW	2	o	—	*	37
	Velieki Luki ...						998·7	*	39	−15	WSW	3	c	—	*	37
	Hangö	990·3	36	—	o	o	991·3	+1	34	−3	—	o	f	—	*	32
	Riga	992·3	37	SSW	2	r	998·4	+5	37	−15	W	3	s	1	*	36
	Petrograd ...	994·0	57	ESE	4	o	993·9	+2	46	+5	SSW	2	f	2	63	41
	Moscow	1000·8	61	ESE	4	b	999·0	−2	55	+5	ESE	4	b	—	*	50
	Kiev	996·1	45	NW	4	b	997·1	+2	34	−14	NW	3	s	11	*	32
	Kharkov ...	995·8	59	—	o	b	996·4	0	52	−7	SSE	3	o	6	*	50
	Kishinev ...	995·1	36	NW	2	r	1002·1	+5	37	−9	NW	4	o	0	*	32
	Elisabetgrad ...	994·0	57	ENE	4	r	995·0	+1	45		E	2	r	1	*	45
	Nicolaiev ...	994·1	54	SSW	1	bc	993·1	*	46	−4	WSW	4	o	1	*	45
	Odessa						1000·4	?	39	−11	NW	6	o	1	*	36
	Tarkhankout...	999·5	52	S	5	c	1006·4	*	45		W	9	o	—	*	45
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1004·9	41	NE	2	bc	1007·9	*	46	0	WSW	2	bc	4	61	41
	Pesaro	1005·3	48	—	o	f	1009·8	*	43	−7	N	5	r	3	61	43
	Rome	1009·1	54	NE	1	bc	1008·1	*	48	−2	N	1	b	4	61	43
	Viesti	1008·1	48	SW	6	o	1006·9	*	50	+2	N	1	r	—	63	46
	Brindisi	1011·0	54	N	2	b	1007·8	*	54	+4	SW	2	o	—	59	50
	Cagliari	1016·2	57	NW	1	b	1004·1	*	55	−2	NW	5	bc	—	61	40
	Palermo	1016·1	57	SSE	3	c	1012·5	*	54	−3	SSE	4	bc	—	66	52
	Tripoli	1021·3	59	—	o	b	1018·5	*	61	+2	—	o	b	—	70	50
	Algiers	1020·8	55	WNW	4	b	1021·8	+1	56	+1	SSW	3	b	—	68	50
SWEDEN.	Hernösand ...	995·1	37	N	2	r	995·1	*	34	−2	N	6	s	*	*	*
	Stockholm ...	990·3	34	NW	4	b	995·4	*	34	0	E	4	o	*	*	*
	Wisby	991·2	34	SSW	8	o	997·1	*	36	+2	W	4	b	*	*	/

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 ...	1014·8	23	−4	NE	8	o
Reykjavik	1008·3	30	−2	ENE	6	o
Vestmanna						
Seydisfjord	1018·6	18	−3	N	3	c
Thorshavn	1006·0	40	+12	—	o	m

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	Trace	49	35	o.c	o	0·2
	Banff	—	3	50	33	o.c	cd.o	0·2
	Montrose	2	Trace	48	34	o	c	0·3
	Carnoustie	*	*					
	St. Andrews...	2	—	53	33	cg	cg	1·9
Eng. N.E.	Harrogate	3	1	43	32	op	op	0·0
	Skegness	5	1	42	33	or.bc	o.	0·2
Eng. N.W.	Morecambe	6	—	49	35			0·0
	Southport	11	Trace	46	36	or.od	o	0·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	3	Trace	55	38	o	c	0·0
Wales.	Rhyl	13	2	47	37	c.or	od	0·0
	Colwyn Bay...	*	*	49	39	r.c	op	0·0
	Llandudno	*	*	48	43	r.c	r	0·0
	Aberystwyth	*	*	45	39	or.c	c.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	5	Trace	41	32	ors	o	0·0
	Felixstowe	4	2.	43	33	or	o.bc.o	0·1
	Walton-on-Naze	5	1	42	32	or.bc.c	bc.c	0·4
	Southend-on-Sea							
England, S.E.	Margate	3	2	44	34	or	bc	1·1
	Ramsgate							
	Hastings	2	1	52	36	c.or	o	0·0
	Eastbourne	4	Trace	52	37	og	or.o	0·0
	Seaford	*	*	54	34	r.	o.	0·0
	Brighton	3	Trace	56	37	ord	od.	0·9
	Worthing	4	—	54	37	o	o	0·0
	Littlehampton	*	*	54	38	-	-	0·0
	Bognor	*	*	55	38	g	g	0·0
	Bournemouth	4	—	57	38			1·4
England, S.W.	Weymouth...	*	*	56	40	o.c	cg	0·2
	Torquay							
	Paignton	*	*	55	41	o.bc	bc.c	0·8
	Penzance	1	—	52	44	o.c	o	0·0
	Newquay	—	—	49	41	o.c	c.o	0·0
	Bude	9	—	47	41	o	o	0·0
	Ilfracombe	7	—	48	38	o.	o	0·0
	Weston-s-Mare	—	—	50	40	o.c.bc	bc.cu	1·5

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

19th & 20th April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	4·49 4·47	11·52 11·52	6·54 6·56
Greenwich	4·59 4·57	11·59 11·59	6·59 7·1
Wick	4·52 4·50	12·11 12·11	7·30 7·32
Valencia	5·39 5·37	12·40 12·40	7·41 7·42

NOTES ON YESTERDAY'S WEATHER.

Temperature showed a slight improvement, but was still far short of the normal. Showers fell in most places, with local mist or fog. There was hardly any sunshine.

NOTE.—The information relating to weather is indicated by the following letters—b. bluesky; 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.

Issue No. 20,238 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Friday 20th April.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Thursday, 19th April, 1917.

There was a considerable increase of temperature at last, Farnborough reaching 64°. There were a few slight local showers. Sunshine varied greatly, none in several places, 9.3 hours at Torquay.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR 19th April UP TO 17 H.

	STATIONS.	Sunshine for 18th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 19th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·2	3	–	51	37	b	bc.b	2·6
	Banff	0·2	2	Trace	52	44	b.bcq	bcq/pr	6·7
	Montrose	*	*	*	57	44	b	b	7·7
	St. Andrews								
Eng. N.E.	Harrogate	0·0	1	–	51	42	o	o.c	0·0
	Skegness	0·2	2	–	55	39	o	o	0·4
Eng. N.W.	Morecambe	0·0	Trace	–	51	43			1·0
	Southport	0·0	Trace	–	50	43	or.c.bc	o<.o	1·6
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0·0	–	–	59	49	bc	bc.c	3·6
Wales.	Rhyl	0·0	1	–	50	43	od.o	c.bc.o	3·3
	Colwyn Bay	*	*	*	54	46	c	c	2·5
	Llandudno	*	*	*	51	44	r	r.c	2·6
	Aberystwyth	*	*	*	46	41	or.c	c.o	0·3
England. E.	Lowestoft	0·0	1	Trace	53	36	or	o.c	0·0
	Felixstowe	0·1	Trace	Trace	55	37	op.f	o c	0·0
	Walton-on-Naze	0·4	Trace	Trace	55	38	od.bc.c	bc.c	0·0
	Southend-on-Sea		1	–	58	40	ofe	o.c	0·1
England, S.E.	Margate	1·1	–	Trace	54	38	odm	o	0 0
	Hastings		*	*					
	Eastbourne	0·0	1	–	55	41	bc.b	o.bc.o	1·2
	Seaford		*	*	52	41	f	bc.	1·9
	Brighton	0·9	2	–	62	42	o.	c.	1·6
	Worthing	0·0	1	–	60	47	c	bc	2·0
	Littlehampton	0·0	*	*	61	46			1·0
	Bognor	0·0	*	*	62	46	o.bc	bc.o.bc	3·0
	Bournemouth	1·4	–	–	63	46	c.b	b.o	1·0
England, S.W.	Weymouth	*	*	*	61	46	bc.b	b.bc	7·5
	Torquay		–	–	60	48	b	b.bc.o.c	9·3
	Paignton								
	Penzance	0·0	–	–	58	47	b	bc.o	8·2
	Newquay	0·0	–	–	51	45	bc	c	4·8
	Bude	0·0	Trace	–	50	45			2·0
	Ilfracombe	0·0	–	–	49	39	bc.c	c.bc	3·6
	Weston-s-Mare	1·5	*	*	50	44	b.bc	bc.c	4·0

REPORTS FROM FOREIGN STATIONS FOR 19th April.

	STATIONS.	Evening of 18th April: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 19th April: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1005·2	0	45	+4	E	3	m	–	*	41
	Gorki						1005·6	+1	34	−3	NW	2	s	–	*	34
	Velieki Luki						1006·6	*	34	−5	W	3	s	16	*	32
	Hangö	1001·6	34	WNW	2	o	1006·6	+3	34	o	W	3	o	–	*	30
	Riga						1011·1	?	34	−3	SW	1	b	–	*	30
	Petrograd	1002·6	37	NE	3	r	1005·1	+5	34	−12	WNW	3	o	1	57	34
	Moscow	1002·7	50	ESE	2	bc	1002·9	+1	46	−10	SE	5	r	1	*	43
	Kiev						1011·9	+5	36	+2	–	0	b	26	*	30
	Kharkov	1005·1	41	SW	4	r	1013·7	+7	43	−9	SW	3	b	4	*	39
	Kishinev	1009·0	46	–	0	b	1008·8	+2	43	+6	ESE	2	o	–	*	36
	Elisabetgrad	1006·7	37	W	3	r									*	
	Nicolaiev							*							*	
	Odessa	1011·1	46	SW	3	b									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1010·5	48	SSE	2	c	1012·1	*	43	−3	ENE	1	o	–	55	41
	Pesaro	1011·4	45	–	0	b	1011·0	*	43	0	SSW	1	b	–	55	36
	Rome	1011·1	50	NW	1	b	1010·3	*	46	−2	N	1	c	1	61	39
	Viesti	1008·3	48	NW	6	c	1011·0	*	50	0	NW	2	b	–	54	45
	Brindisi	1009·1	46	SW	2	o	1008·9	*	45	−9	SW	3	b	1	59	45
	Cagliari						1013·7	*	55	0	SW	5	o	2	61	48
	Palermo	1013·3	54	SSE	2	o	1013·4	*	54	0	E	2	o	2	63	46
	Tripoli						1014·3	*	59	−2	S	1	bc	–	68	46
	Algiers	1020·2	55	ENE	3	bc	1019·5	+2	55	0	ENE	2	b	–	63	50
Sweden.	Hernösand	1001·6	39	NNW	2	o	1007·0	*	36	+2	W	2	bc	*	*	*
	Stockholm	1004·0	36	W	2	o	1009·9	*	36	+2	WSW	2	o	*	*	*
	Wisby	1006·4	36	SW	2	c	1009·0	*	36	0	W	2	c	*	*	*

Iceland.	Morning of 19th April: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	999·9	30	+7	–	0	c
Reykjavik	994·9	37	+7	–	0	o
Vestmanna						
Seydisfjord	1002·0	30	+12	–	0	s
Thorshavn	996·5	42	+2	WNW	5	o

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

20th & 21st April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·47 / 4·45	11·52 / 11·52	6·56 / 6·58
Greenwich	4·57 / 4·55	11·59 / 11·59	7·1 / 7·3
Wick	4·50 / 4·47	12·11 / 12·11	7·32 / 7·34
Valencia	5·37 / 5·35	12·40 / 12·40	7·42 / 7·44

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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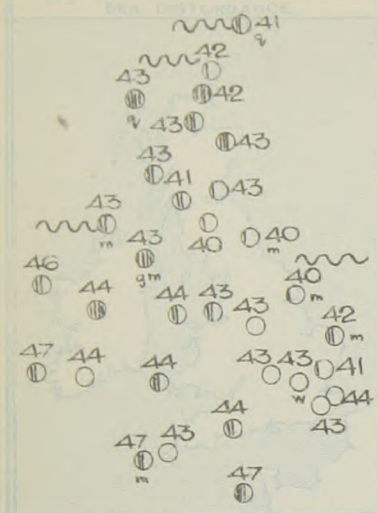
‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 20TH APRIL, 1917.

GENERAL INFERENCE

The NWly. fine weather will prevail.



FORECAST DISTRICTS.

EXPLANATION.

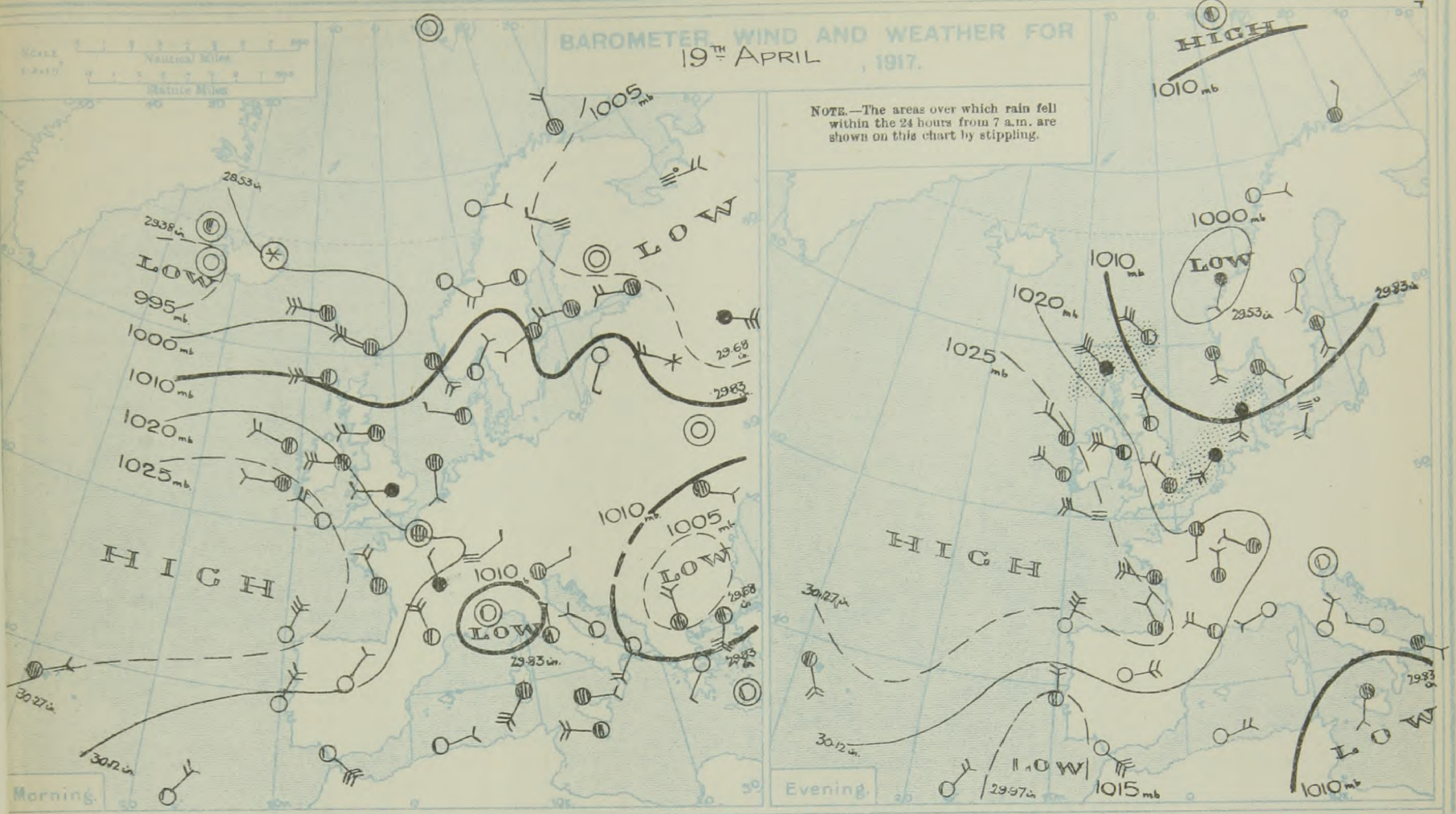
BAROMETER.—Isobars are drawn for intervals of five millibars.

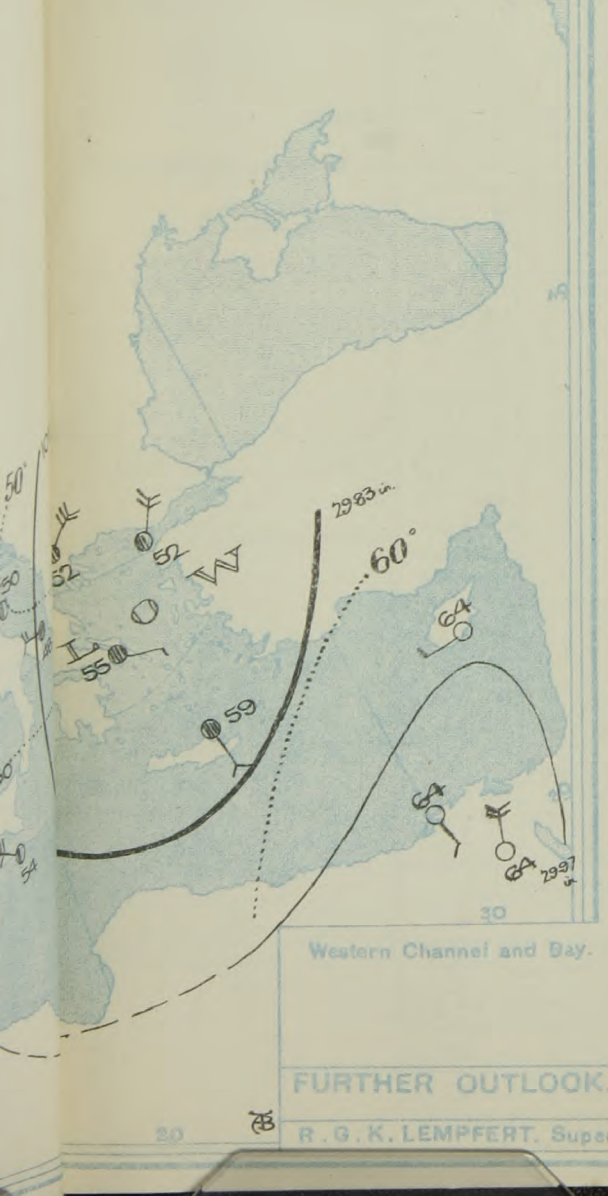
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

1015 mb
1010 mb
1005 mb
1020 mb
1030 mb
1025 mb
LOW
rising
HIGH
LOW
Barometer
General
29.68 in.
29.83 in.
30.42 in.
30.27 in.
30.12 in.
29.97 in.
1015 mb
32°
40°
50°
28
32
38
41
43
34
36
37
39
42
45
40
47
48
49
54
50
57
46
55
59
58
44
27
Normal Temperature of the Sea
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for APRIL





FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY

0 {a, b} Squally, strong NW. wind, moderating; fine; moderate day, cold night temperature.

1

2 {a, b}

3

4 {a, b, c} Light to moderate NW. to N. breeze; fine;

5 moderate day, cold night temperature.

6 {a, b}

7 {a, b}

8 {a, b}

9 {a, b}

10 {a, b}

11 Moderate N. breeze; sea moderate; fine; cold.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 110. {Friday 20th APRIL.

	STATIONS.	EVENING OF 19th					MORNING OF 20th								24 HOURS ENDED 7 A.M.						Sunshine for 19th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.						°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1002·3	45	WNW	5	bcq	1010·5	+2	41	-4	NW	6	NW	bcq	5	2	48	40	oq.bc	bc.pq	bcq	*
	Deerness (Orkney)	1008·4	43	W	7	cq	1014·9	*	42	-3	WNW	7	NW	b	5	-	48	40	c.b	bcq.c	oq.bc	6·2
	Stornoway ...	1015·5	43	WNW	6	cpq	1021·8	+2	43	-3	WNW	4	-	oq	4	2	50	40	c.bcq	bc.pq	c.opq	7·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1016·6	46	W	6	c	1023·3	+3	41	-6	WSW	2	NW	bc	*	-	51	40	c.bcq	c.bc.pq	c.bc.b	6·1
	Eskdalemuir ...	1017·6	45	WNW	5	c	1022·4	+1	40	-6	WNW	6	NW	b	*	-	52	36	o.c	cq.bc.c	c.bc.bq	5·1
	Malin Head ...	1021·9	45	NNW	4	b	1026·2	+2	43	-2	NNW	5	NW	bcm	5	-	48	42	om	bc	cm	4·2
	Blacksod Point	1025·8	48	NW	3	cm	1029·5	0	46	-1	NW	2	NW	bc	3	-	50	43	cqm	cm	cm.bc	*
	Valencia (Cahirciveen)	1028·0	50	NNW	4	c	1031·3	+1	47	-1	N	3	-	bc	3	-	53	45	om.cb	b.bc.c	oz.cbc	4·0
	Roche's Point	1025·5	50	NNW	4	bc	1030·5	*	44	-4	NW	1	-	b	1	-	56	42	o.c	c.bc	b	*
	Birr Castle ...	1025·9	56	NNW	1	o	1029·9	*	44	-5	NNW	1	-	o	*	-	53	42	c.o.c	c.o	o	3·3
	Donaghadee ...	1020·3	48	NNW	5	bcq	1026·2	+2	43	-6	WNW	3	-	ogm	3	-	50	42	cmq	cm	bcq.om	*
	Liverpool (Bidston)	1020·5	46	W	4	o	1025·6	+2	43	-2	W	3	W	bc	3	-	50	41	oe	bc.o	b.o.c	1·5
	Holyhead ...	1022·1	49	WNW	5	c	1027·4	+2	44	-2	WNW	4	NW	bc	3	Trace	54	43	cpd.bc	bc.c.o.c	c.b.bc	4·1
	Pembroke (St. Ann's)	1024·3	47	WNW	2	c	1028·4	+4	44	-1	NW	3	-	bc	2	-	50	42	bcc.o	o.c	c.b.bc	3·5
	Scilly (St. Mary's)	1025·8	49	NW	5	f	1028·5	+2	47	-1	NNE	3	NE	bcm	4	-	53	45	bcm	bcmf	f.b.bc	4·2
	Falmouth ...	1024·0	52	NW	3	bc	1027·9	+3	43	-5	N	1	-	b	*	-	56	41	b.o	o.c.bc	bc.bw	7·1
	Jersey (St. Aubin)	1022·8	50	WNW	4	bc	1025·4	*	47	-1	NW	3	NW	c	3	-	53	43	c.b	b.bc	bc	6·8
	Portland Bill ...	1020·6	48	WNW	4	c	1025·3	+3	44	-2	NNW	3	N	bc	2	-	51	44	bc	bc.c	bc.b	*
	Dungeness ...	1017·4	48	W	3	bc	1021·9	+2	43	+1	N	3	-	b	3	-	55	39	op	bc	c.b.b	*
	Dover	1016·9	56	NW	4	c	1022·8	+3	44	+4	NW	4	-	b	2	0·4	57	38	om.c	c.bc.c	c.bc.b	0·3
	Wick	1011·2	42	WNW	5	c	1017·2	+4	42	-3	NW	5	-	o	4	1	51	39	bcmq	bcmpq	bc.omq	*
	Nairn	1014·3	44	WNW	5	bcq	1020·8	*	43	-3	W	2	-	cg	2	-	53	40	cgq	bcq	bcq.c	4·8
	Aberdeen ...	1012·5	47	NW	6	bq	1019·0	+2	43	-7	WNW	5	-	c	2	-	54	41	o.cq	bcq	bcq	8·0
	Leith	1014·9	50	WNW	4	c	1021·7	+2	43	-6	SW	1	W	b	2	-	54	39	c.bc.b	b	cb.bz.b	*
	Tynemouth ...	1014·8	52	NNW	3	bcq	1022·1	+3	40	-8	NW	2	-	bm	3	-	55	36	omq	bcq	bm	*
	Spurn Head ...	1016·0	48	NW	5	cq	1023·2	+2	41	-3	W	5	-	bq	5	-	51	38	cq	cq	b	0·0
	Yarmouth (Gorleston)	1015·2	50	NW	4	cmq	1021·8	+4	42	+3	NNW	3	-	bcm	2	1	54	39	omp	omp.cq	bcm	0·0
	Clacton-on-Sea	1017·3	55	WNW	4	c	1022·5	+3	41	-1	NW	3	-	b	2	0·2	56	39	ogmd	o.c	c.bc.b	0·1
	Nottingham ...	1018·6	50	NW	4	o	1024·3	*	43	-6	NW	3	-	b	*	Trace	53	39	o.cp	o	o.c.b	0·7
	Benson (Oxon.) ...	1018·9	54	WNW	2	o	1024·3	+4	43	-5	NW	3	-	b	*	-	60	37	bc	bc	b	*
	Sth Farnborough	1018·3	56	NW	2	c	1024·3	+4	43	-5	NW	2	-	b	*	0·3	64	38	d.o.c.o	o.c	c.bc.o.b	2·1
	London (Kew Obsy.)	1018·9	55	NW	3	o	1024·8	+3	43	-4	NNW	3	-	bw	*	0·3	60	40	odm.bo	o.c.d.c.o	o.c.bw	3·1
NORTHERN EUROPE.	Spitsbergen ...	1010·7	-4	-	0	c	1014·0	+2	0	+9	N	1	*	b	*	*	3	-9				
	Vardö	1007·1	28	NNE	1	o	1011·4	+3	27	-3	-	0	-	b	2	*	30	27				
	Bodö	1004·4	36	E	2	b	1005·3	+2	34	0	E	2	-	b	2	-	39	30				
	Christiansund ...	999·1	39	SW	2	p	1004·2	+3	41	+4	-	0	-	p	3	2	45	37				
	Skudesnaes ..	1002·4	37	S	4	o	1006·0	+2	41	+4	WNW	4	-	o	5	12	37	34				
	Færder (X'laniaFjord)	?1001·6	37	SSW	4	o	1006·2	+2	36	-1	SE	2	-	c	3	-	39	36				
	The Scaw (Skagen)	1001·5	41	SE	2	o	1005·1	+2	37	-2	NW	2	-	f	2	Trace	45	36				
	Blaavands Huk	1004·9	36	SSW	4	p	1010·3	+3	39	0	NW	3	-	c	4	3	41	34				
	Copenhagen ...	1011·8	45	WSW	2	c	1008·6	+1	37	0	SSW	3	-	m	*	1	48	36				
	Bornholm ...	1014·7	36	SSW	3	m	1010·3	0	39	+3	SW	2	-	m	0	-	39	34				
FRANCE, &c.	The Helder ...	1013·0	41	SW	4	T	1018·0	+3	41	+5	WNW	4	NW	bc	3	1	43	36				
	C. Gris Nez ...	1017·2	46	WSW	4	o	1022·6	+4	42	+2	NW	4	*	b	3	Trace	48	40				
	La Hève	1020·4	48	NW	4	bc	1023·1	*	45	+1	NNE	3	*	b	2	-	50	41				
	Brest (St. Mathieu)	1026·7	48	NNW	4	o	1027·4	+1	47	-2	NNE	3	*	b	1	-	54	45				
	Rochefort (Ile d'Aix)	1024·0	51	NW	5	o	1024·8	+1	49	0	NNE	2	*	b	*	-	55	45				
	Biarritz	1026·2	51	NNW	2	o	1024·7	+1	50	-	ENE	1	*	o	2	2	51	46				
	Paris	1020·2	49	S	1	o	1022·8	+2	48	+4	NNW	2	-	c	*	Trace	49	43				
	Belfort	1021·8	45	W	2	o	1021·1	*	41	+8	W	4	*	f	*	5	51	33				
	Lyons	1020·7	49	N	2	o	1022·7	*	44	+5	-	o	*	o	*	2	54	39				
	Nice	1015·0	48	WSW	2	b	1016·7	-1	50	+2	SW	2	*	b	3	-	59	41				
	Perpignan ...	1020·4	57	NW	3	bc	1022·4	0	57	+5	W	2	NW	b	*	-	63	34				
	Sanguinaire ...	1011·0	55	W	5	m	1018·3	*	50	-1	E	3	*	bc	5	-	59	48				
SOUTHERN STATIONS.	Corunna	1023·2	59	NNE	5	b	1022·6	0	54	+2	NNE	5	-	b	2	-	61	52				
	Madrid	1016·6	66	ENE	4	b	1021·8	0	50	+2	NE	2	-	b	*	-	68	45				
	Lisbon	1013·9	73	N	4	bc	1014·2	0	59	+2	N	4	-	bc	2	-	75	57				
	Azores (Horta) ...	1024·3	*	SSE	4	c	1022·6	-1	55	0	NE	4	*	bc	2	-	63	55				
	Madeira	1017·0	63	NE	3	b	1017·0	0	55	0	N	3	-	b	2	-	63	54				
	Gibraltar	1016·2	58	SE	6	b	1016·2	*	58	0	E	6	*	o	4	-	62	53				
	Malta	*	*	*	*	*	1012·7	+5	54	-1	NW	6	-	bc	5	13	61	50				
	Limassol	*	*	*	*	*	1014·4	+1	64	+1	W	1	-	b	3	-	75	48				
	Alexandria ...	1017·5	63	NNE	3	b	1017·2	0	64	0	S	1	-	b	0	-	72	57				
	Cairo (Helwan) ...	1015·5	68	N	3	b	1016·4	0	64	0	NE	4	-	b	*	-	82	57				

GALES.
Duration and Extreme Force in British Islands.

NAIRN

WNW, 8; 19th. 14–17h.

ABERDEEN

Gusts, 23 m/s, 19th-20th (night).

NOTE

Solar Halo was observed at Holyhead, 19th, morning.

LONDON OBSERVATIONS.	Humidity. 15 h. 19th	Humidity. 9 h. 20th	Sunshine for 19th	24 Hours ended 9 h. 20th April. Temperature. Max.	Temp. Min.	Temp. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	75	73	1·8	62	40	33	-	or.o	o.c.b	b.bc.b
CITY (Bunhill Row)	*	*	2.6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	73	66	2.2	62	41	37	-	o	o.c	bc
CAMDEN SQ. (British Rainfall) ..	68	70	2.6	62	39	34	3	o.c	o.c	*
HAMPSTEAD (Reservoir)	*	69	2·4	58	36	25	Trace	bc	bcx	bc
S. KENSINGTON (Museum Grounds)	*	69	1·9	61	41	36	-	od.c	o.c	bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 19th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
757	15.0	68.5

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

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

Issue No. 20,239 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Saturday 21st April

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Friday, 20th April, 1917.

Temperature was rather variable, the maxima ranging from 42° at Lerwick to 61° at Ross. Dry weather was general. Large sunshine records were the rule, 10 to 13 hours in many places.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR 20th April, UP TO 17 H.

	STATIONS.	Sunshine for 19h	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 20th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	2.6	—	—	48	42	bc	o	1.6
	Banff	7.4	—	—	48	40	c.bc	c.o	4.3
	Montrose	7.7	—	—	54	36	b	bc	7.6
	St. Andrews		—	—	54	40	bc	c	4.8
Eng. N.E.	Harrogate	0.0	—	—	56	36	b	b.bc.c	10.1
	Skegness	0.4	—	—	50	37	b	bc.o	8.2
Eng. N.W.	Morecambe	2.0	—	—	51	40			10.0
	Southport	1.6	—	—	51	41	b.bc	b.bc.c	9.5
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	3.7	—	—	61	38	bc.b	b	8.8
Wales.	Rhyl	3.3	—	—	50	42	c.o	bc.c	7.2
	Colwyn Bay	*	*	*	51	43	bc	bc	7.3
	Llandudno	*	*	*	51	42	b.	bc	8.5
	Aberystwyth	*	*	*	48	42	b.	bc	10.0
England, E.	Lowestoft	0.0	—	—	50	46	bc.c.bc	bc.c	6.1
	Felixstowe	0.0	—	—	52	39	bc	bc	7.1
	Walton-on-Naze	0.0	—	—	52	39	b.bc.bc	bc	7.3
	Southend-on-Sea	0.1	—	—	54	39	cf	o.	7.1
England, S.E.	Margate	0.0	—	—	51	41	b	b.bc.c	8.6
	Hastings		—	—	54	41	b.	b.bc	9.7
	Eastbourne	2.2	—	—	57	42	b.	b	11.0
	Seaford	2.6	*	*	58	40	bc	bc	11.2
	Brighton	3.0	—	—	57	41	bc	b	11.0
	Worthing	2.8	—	—	57	41	bc.b	b	10.9
	Littlehampton	*	*	*	56	36	b.	b.bc.c	10.1
	Bognor								
	Bournemouth	1.0	—	—	60	39	b	b	12.0
England, S.W.	Weymouth	*	*	*	59	42	bc.z.b	b	10.0
	Torquay	10.4	—	—	58	42	b	b	10.6
	Paignton								
	Penzance	8.2	—	—	54	44	b	b	11.0
	Newquay	4.8	—	—	48	44	b	b	10.6
	Bude	2.0	—	—	50	42	b	b	11.0
	Ilfracombe	3.6	—	—	50	42	b	b	9.9
	Weston-s-Mare	4.0	—	—	53	43	b	b	11.0

REPORTS FROM FOREIGN STATIONS FOR 20th April.

	STATIONS.	Evening of 19th April: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 20th April: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1002.2	?	W	1	c									*	
	Gorki	1016.7	39	—	o	b	1017.7	o	36	+2	—	o	b	?	*	32
	Velieki Luki						1019.1	*	37	+3	—	o	o	—	*	34
	Hangö	998.6	32	WSW	4	o									?	
	Riga	1015.2	41	SSW	1	o	1016.0	o	37	+3	—	o	o	—	*	34
	Petrograd	1012.0	34	W	3	o	?1017.2	+3	34	o	S	2	o	—	37	32
	Moscow	?1015.5	39	W	3	o	1022.7	+4	37	-8	W	1	b	1	*	34
	Kiev	1014.6	37	ESE	3	b	1011.0	-3	46	+10	ESE	4	c	—	*	?
	Kharkov	1018.1	48	E	2	b	1016.8	o	46	+3	NE	3	o	—	*	43
	Kishinev														*	
	Elisabetgrad	1013.0	52	ESE	3	bc	1010.0	-1	50		ESE	3	o	—	*	45
	Nicolaiev	1010.0	57	ESE	2	o	1009.6	*	48		—	o	o	—	*	39
	Odessa	1009.2	50	SE	4	b	1009.6	+1	45		WSW	3	b	—	*	43
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1017.3	46	—	o	b	1015.4	*	45	+2	—	o	o	—	52	41
	Pesaro	1016.5	46	NW	1	bc	1017.7	*	43	o	—	o	b	2	52	34
	Rome	1012.3	44	NNE	3	b	1016.3	*	46	o	N	3	b	—	59	46
	Viesti	1012.2	48	WNW	1	o	1014.1	*	50	o	NW	6	bc	—	55	45
	Brindisi	1010.2	52	SE	2	o	1009.3	*	48	+3	NW	3	o	7	55	44
	Cagliari						1017.3	*	55	o	NW	4	b	—	?	50
	Palermo	1007.7	55	SSW	2	o	1014.6	*	50	-4	SW	4	bc	8	63	46
	Tripoli							*								
	Algiers	1019.1	57	ENE	3	b	1020.3	+1	55	o	E	3	b	—	61	54
Sweden.	Hernösand	1005.4	36	SSW	2	b	1008.4	*	37	+1	—	o	c	*	*	*
	Stockholm	1009.0	36	S	2	c	1011.7	*	37	+1	SSE	2	b	*	*	*
	Wisby	1009.5	36	SW	2	b	1010.7	*	41	+5	WSW	2	b	*	*	*

Iceland.	Morning of 20th April: 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	E	3	o
Reykjavik	1019.2	32	-5	W	3	c
Vestmanna						
Seydisfjord	1015.9	28	-2	N	4	c
Thorshavn	1015.1	38	-4	NW	2	b

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

21st & 22nd April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.45	11.52	6.58
	4.43	11.52	7.0
Greenwich	4.55	11.59	7.3
	4.53	11.59	7.5
Wick	4.47	12.11	7.34
	4.45	12.11	7.36
Valencia	5.35	12.40	7.44
	5.33	12.40	7.46

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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TEMPERATURE, WEATHER AND SEA DISTURBANCE

THE MORNING OF SATURDAY, 21ST APRIL, 1917.

GENERAL INFERENCE

Very quiet anticyclonic conditions will prevail

FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

HIGH

LOW

LOW

Barometer rising

Barometer steady

1030 mb

1025 mb

1020 mb

1015 mb

1010 mb

29·83 in

29·97 in

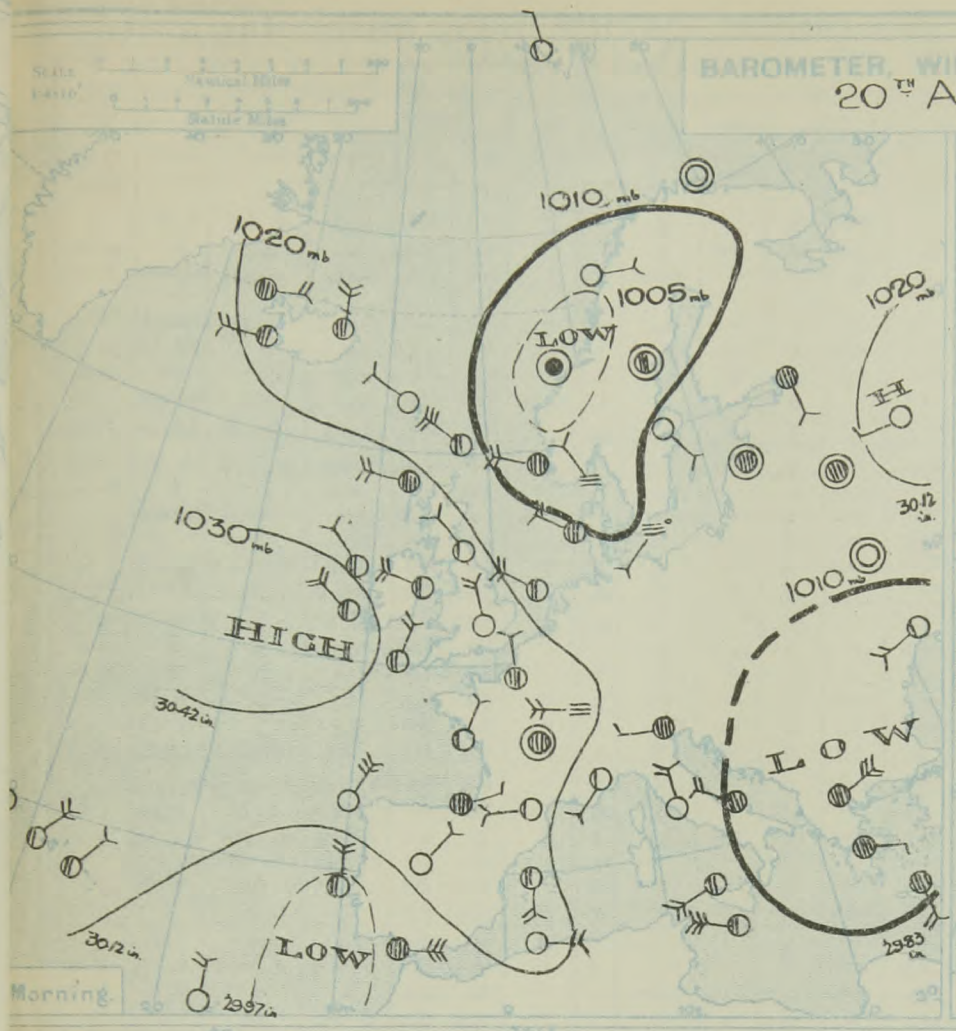
30·12 in

30·27 in

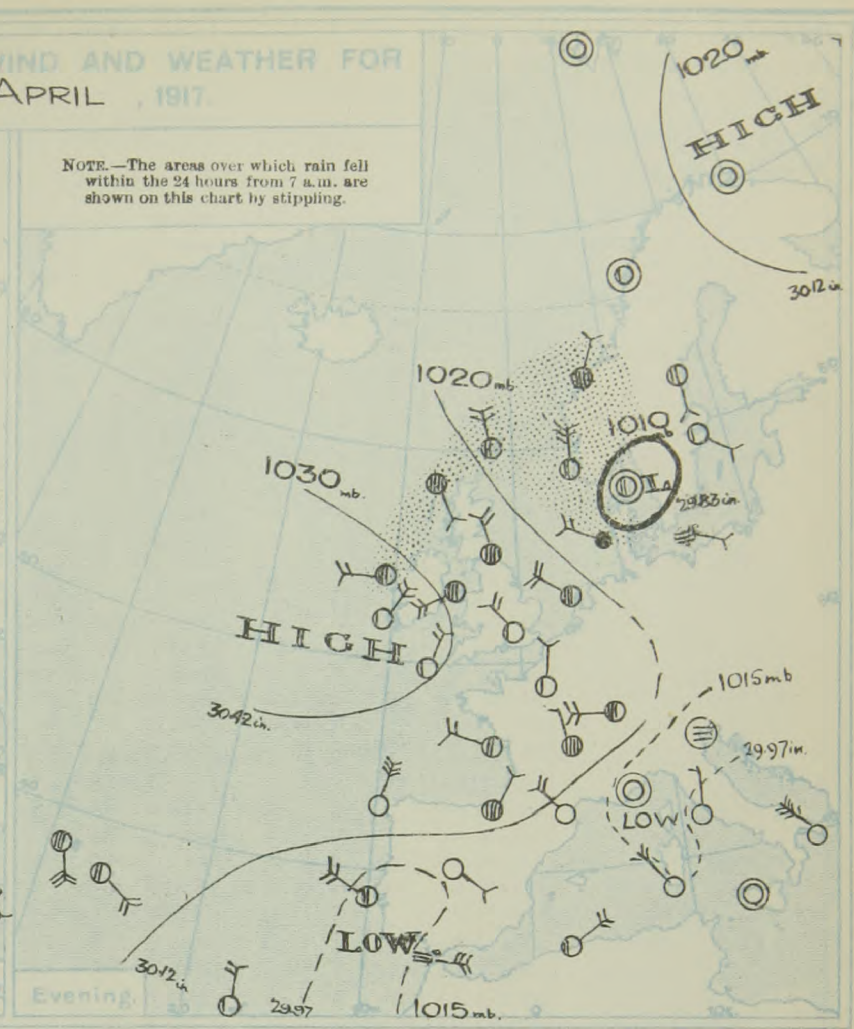
30·42 in

BAROMETER, WIND AND WEATHER FOR

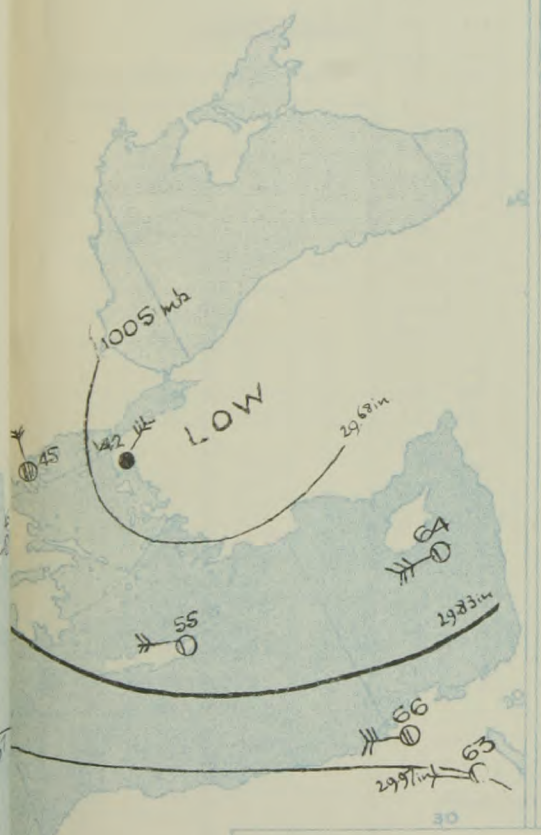
20TH APRIL, 1917.



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



FORECASTS FROM NOON SATURDAY TO NOON SUNDAY



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

Light NW. to N. and variable breezes; cloudy to fine; cool.

Light to fresh breeze between N. and E; sea moderate; fine generally; cool.

FURTHER OUTLOOK.

20

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

NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 111

Saturday 21st APRIL

	STATIONS.	EVENING OF 20th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	MORNING OF 21st. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 HOURS ENDED 7 A.M. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for 20th Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1019·5	41	NNW	4	bc	1024·6	+1	40	−1	NW	3	−	o	2	1	42	38	cqp	c. bc	c. o	
	Deerness (Orkney)	1022·0	42	NW	4	bc	1026·7	*	42	0	WNW	2	NW	e	1	−	46	39	bc	bc	e	6·0
	Stornoway ...	1023·3	43	SSE	2	odp	1028·0	+1	43	0	S	1	−	odm	1	1	46	42	odp	odp	odp.odm	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1024·8	48	W	2	c	1027·8	+3	47	+6	W	1	−	c	*	−	50	41	c.o.c	o.c	c.bc.cw	2·2
	Eskdalemuir ...	1025·6	45	WNW	4	o	1027·2	+2	47	+7	NW	4	NW	c	*	−	51	39	bq.c	o	o.c.bc	4·5
	Malin Head ...	1026·9	48	WNW	5	bcm	1030·9	+1	46	+3	NW	3	W	cm	3	0·1	49	42	om	bcm	cm	3·4
	Blacksod Point	1031·5	48	W	3	cm	1033·5	0	46	0	−	0	−	c	2	0·3	50	44	bc	cm	cm.ofe	
	Valencia (Cahirciveen)	1032·5	50	NNW	4	b	1034·0	0	44	−3	−	0	NE	bw	3	−	52	42	bc.b	bc.b	bcmw	11·2
	Roche's Point	1031·2	52	NW	2	b	1033·1	*	47	+3	NW	2	NW	bc	1	−	57	44	b.bc	c.o.c.b	b.bc	
	Birr Castle ...	1031·5	52	NW	1	o	1033·4	*	45	+1	SSW	1	−	o	*	−	58	42	c	o	o	6·4
	Donaghadee ...	1027·2	54	NW	2	bcm	1029·8	+3	47	+4	NW	3	−	cm	2	0·2	54	43	ogm	bcm	og.cmp	
	Liverpool (Bidston)	1028·1	46	W	3	o	1028·8	+4	45	+2	W	3	W	o	3	−	50	43	b	b.o		4·2
	Holyhead ...	1029·0	48	WSW	4	c	1030·3	+1	45	+1	WNW	4	N	e	3	−	54	43	b.bc.c.b	b.bc.c.o	b.bc.c	8·0
	Pembroke (St. Ann's)	1030·2	46	WNW	3	b	1031·2	+1	48	+4	N	3	N	e	2	−	53	42	bc.b	b	b.bc.c	11·8
	Scilly (St. Mary's)	1030·3	48	NNE	3	b	1031·4	0	49	+2	−	0	−	b	3	−	52	45	bc.b	b	b	12·7
	Falmouth ...	1028·6	49	N	4	bz	1030·8	+1	45	+2	N	1	N	b	*	−	53	40	b	b	b	13·0
	Jersey (St. Aubin)	1026·9	51	NW	2	b	1028·7	*	49	+2	N	3	−	b	2	−	54	44	c.b	b	b	11·0
	Portland Bill ...	1026·5	46	WSW	3	b	1028·6	0	47	+3	NW	2	−	bc	2	−	52	43	bc	b	b.bc	
	Dungeness ...	1024·0	45	W	1	b	1025·4	0	47	+4	NW	3	W	c	1	−	54	45	bc	b	b.bc	
	Dover	1025·1	51	NW	2	b	1025·7	0	44	0	NW	3	W	o	2	−	54	42	b	b.bc.b	om	10·6
	Wick	1022·7	44	NW	4	o	1027·4	+2	42	0	WNW	1	−	c	2	−	47	38	o.cmg	c.omg	og cm	
	Nairn	1023·1	45	−	0	og	1027·7	*	44	+1	−	0	−	cg	0	0·1	50	41	c.bcq.c	c.o	ogp	1·6
	Aberdeen ...	1023·3	45	NW	3	o	1027·7	+2	44	+1	NW	2	NW	bc	2	1	51	41	bc.cq	cq.opr	o.c.bc	3·2
	Leith	1024·3	48	W	1	o	1027·7	+2	42	−1	E	1	−	om	1	−	53	41	b.bcu.c	cu.o.c.o	o.c.om	
	Tynemouth ...	1024·1	50	NW	3	om	1027·7	+2	41	+1	N	1	−	om	3	−	54	40	bcm	cm	omp	
	Spurn Head ...	1024·4	45	−	0	o	1027·2	+1	42	+1	NNE	2	−	o	4	−	49	40	c	c	o	2·0
	Yarmouth (Gorleston)	1024·6	46	NNW	2	c	1026·2	+2	43	+1	N	2	−	om	2	−	54	40	bc	bcm	om	9·0
	Clacton-on-Sea	1025·1	44	ENE	2	c	1025·6	+1	46	+5	NW	3	−	o	2	−	53	41	b.bc.e	c.bc.c	c.og	8·5
	Nottingham ...	1025·8	52	NW	3	b	1027·2	*	49	+6	NW	2	NW	om	*	−	55	42	b	b	bc.o	9·9
	Benson (Oxon.) ...	1025·6	52	NNW	4	bc	1027·1	+1	45	+2	W	2	−	o	*	−	55	34	o.bc	bc	b	
	Sth Farnborough	1025·0	55	NW	2	b	1026·8	0	43	+5	NW	2	−	o	*	−	56	37	b.bc	bc.b	b.o	12·7
	London (Kew Obsy.)	1025·6	54	NW	3	b	1027·7	+2	50	+7	NW	3	−	o	*	−	54	43	bw.b.o.e	e.bc.b	b.bc.c.o	11·4
NORTHERN EUROPE.	Spitsbergen ...	1017·9	-6	−	0	b	1022·3	+2	-17	-17	SSE	1	*	b	*	*	0	-24				
	Vardö	1024·8	23	−	0	b	1022·2	+2	27	0	WSW	2	−	b	3	*	28	23				
	Bodö	1011·6	37	−	0	b	1015·5	+2	37	+3	ESE	1	−	bc	1	−	39	32				
	Christiansund ...	1014·4	41	NNE	1	o	1021·2	+4	37	−4	NW	2	−	c	4	5	43	36				
	Skudesnaes ..	1011·6	39	N	5	bc	1019·9	+4	41	0	N	6	−	b	2	2	43	34				
	Færder (X'tania Fjord)	1011·2	37	NE	2	o	1017·0	+3	37	+1	N	4	−	c	2	1	37	36				
	The Scaw (Skagen)	1009·4	39	−	0	bc	1015·5	+4	39	+2	NNE	2	NE	bc	2	−	45	37				
	Blaavands Huk	1013·2	41	NW	3	r	1016·4	+7	39	0	N	3	−	o	4	1	45	36				
	Copenhagen ...	1010·8	39	SW	2	m	1011·8	+2	39	+2	N	3	−	m	*	1	43	37				
	Bornholm ...	1011·0	36	ESE	2	m	1009·6	−1	34	−5	N	4	−	m	1	−	43	32				
FRANCE, &c.	The Helder ...	1021·7	43	NW	4	c	1021·9	+1	41	0	NW	5	−	c	3	−	45	41				
	C. Gris Nez ...	1025·0	46	SW	2	c	1025·4	+1	44	+2	NNW	2	*	m	2	−	54	43				
	La Hêve	1025·9	44	NW	3	b	1026·4	*	43	−2	NNW	3	*	m	2	−	50	39				
	Brest (St. Mathieu)	1028·6	52	NNE	3	bc	1029·9	0	46	−1	ENE	3	*	b	0	−	57	43				
	Rochefort (Ile d'Aix)	1024·0	54	NW	3	bc	1026·3	+2	46	−3	E	4	*	b	*	−	59	43				
	Biarritz	1023·4	53	NNE	2	o	1023·5	+1	50	0	E	1	*	b	2	−	57	45				
	Paris	1024·0	52	N	3	b	1026·0	0	46	−2	WNW	1	−	o	*	−	59	39				
	Belfort	1023·5	48	W	4	c	1026·0	*	38	−3	W	2	*	c	*	−	53	36				
	Lyons	1021·6	32	N	1	o	1023·9	*	43	−1	NNE	1	*	b	*	−	59	41				
	Nice	1013·8	50	−	0	b	1012·6	−2	55	+5	−	0	*	b	3	−	59	41				
	Perpignan ...	1019·1	63	NW	3	b	1018·7	−1	59	+2	NW	4		b	*	−	68	34				
	Sanguinaire ...	1014·7	58	S	3	c	1012·7	*	54	+4	E	3	*	m	4	−	59	46				
SOUTHERN STATIONS.	Corunna	1020·6	57	NNE	6	b	1020·2	0	57	+3	−	0		b	1	−	61	46				
	Madrid	1015·8	66	SE	2	b	1019·4	0	54	+4	NE	1	−	b	*	−	68	45				
	Lisbon	1013·4	70	WNW	4	bc	1014·7	+1	55	−4	N	2	−	bc	2	−	77	55				
	Azores (Horta) ...	1021·6	*	SSE	5	c	1017·2	−2	57	+2	SSE	5	*	o	3	−	64	57				
	Madeira	1017·0	63	N	3	b	1017·9	0	57	+2	N	3	−	o	3	−	63	57				
	Gibraltar	1017·3	69	E	5	m	1016·2	*	59	+1	E	6	*	m	4	−	61	57				
	Malta	*	*	*	*	*	1015·9	0	57	+3	W	3	−	c	1	−	57	50				
	Limassol	*	*	*	*	*	1007·4	+1	64	0	W	6	W	b	5	−	72	64				
	Alexandria ...	1010·4	73	ESE	3	b	1014·3	+3	66	+2	WNW	5	W	bc	4	−	82	61				
	Cairo (Helwan) ...	1012·3	72	−	0	b	1016·0	+3	63	−1	NW	2	NW	b	*	−	84	61				

LONDON OBSERVATIONS.

	Humidity. 13 h. 20th.	Humidity. 9 h. 21st.	Sunshine for 20th.	24 Hours ended 9 h. 21st APRIL. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	54	87	9·0	56	45	37	−	b.c	b.c	c.o
CITY (Bunhill Row)	*	*	9·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	56	83	10·0	57	46	41	−	bc	bc	bc.o
CAMDEN SQ. (British Rainfall) ..	51	80	10·8	58	45	39	−	bc.b	b	*
HAMPSTEAD (Reservoir)	*	86	11·6	55	42	32	−	bc	b	o
S. KENSINGTON (Museum Grounds)	*		10·5	61	45	41	−	c.b	b	b.c.o

SOUTH KENSINGTON.

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

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1594	31·5	74

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

GALES.

Duration and Extreme Force in British Islands.

ABERDEEN.

Gust, 18 m/s; 20th at 10

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,240 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Sunday, 22nd APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Saturday, 21st APRIL, 1917.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Saturday, 21st APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 20th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 21st.
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	1·6	Trace	–	55	42	o. bc	b	5·1
	Banff	4·3	–	–	49	41	o. c	c. o	1·6
	Montrose	7·6	–	–	54	41	o	o	0·2
	St. Andrews								
Eng. N.E.	Harrogate	10·1	–	–	50	42	o	o. c	1·3
	Skegness		*	*	47	41	o	b	2·5
Eng. N.W.	Morecambe								
	Southport	9·5	–	–	50	44	o. c. bc. b	bc. c. o	5·0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	10·2	–	–	60	40	c. bc	bc	1·7
Wales.	Rhyl								
	Colwyn Bay	*	*	*					
	Llandudno	*	*	*	52	45	c. b	c	5·3
	Aberystwyth	*	*	*	49	43	o. c. b	c. b	7·5
England. E.	Lowestoft								
	Felixstowe	7·7	–	–	50	42	o. c	c. bc	2·6
	Walton-on-Naze	7·3	–	–	49	42	bc. c	bc. c. b	0·6
	Southend-on-Sea	7·1	–	–	50	42	o	o. c	0·2
England, S.E.	Margate	8·6	–	–	46	42	c	c	0·2
	Hastings	10·0	–	–	55	42	o. c	o. bc	1·5
	Eastbourne	11·2	–	–	56	44	–	–	1·9
	Seaford	11·5	–	–	57	41	c	o	1·7
	Brighton	11·7	–	–	58	43	c	c. o	2·9
	Worthing	11·9	–	–	58	41	bc	bc. c. o	1·9
	Littlehampton		–	–	57	50	b. c	o	2·5
	Bognor		–	–	57	50	b. g	bg	8·0
	Bournemouth	12·2	–	–	59	42	c. o	c. o	4·8
England, S.W.	Weymouth		*	*					
	Torquay								
	Paignton		–	–	63	42	b. bc	bc. c	7·3
	Penzance	13·0	–	–	59	44	b	b	11·5
	Newquay								
	Bude	13·2	–	–	58	35	b	b	10·3
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Saturday, 21st APRIL,

	STATIONS.	Evening of 20th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 21st: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1015·7	36	W	4	o	1024·0	?	32	−4	NW	3	o	–	*	30
	Gorki	1013·9	48	SE	5	o	1010·3	0	43	+7	E	6	bc	q	*	32
	Velieki Luki						1014·3	*	46	+9	SE	2	b	–	*	37
	Hangö	1017·2	34	–	0	o	1014·4	−2	37	−2	ENE	3	o	–	*	28
	Riga						1009·6	+1	48	+11	–	0	o	–	*	37
	Petrograd	1020·2	39	ENE	4	b	1019·7	0	43	+9	E	3	b	–	48	34
	Moscow	1015·9	48	ENE	3	b	1018·3	+3	39	+2	NE	2	b	–	*	34
	Kiev	1008·4	50	W	2	c	1007·0	0	45	−1	NW	3	o	1	*	41
	Kharkov						1007·3	+2	50	+4	–	0	o	–	*	48
	Kishinev	1007·0	?	NNW	2	f	1005·9	−1	39	−11	NNW	3	c	–	*	37
	Elisabetgrad	1007·5	50	SW	2	b	1006·1	−2	41	−9	NNW	1	c	1	*	34
	Nicolaiev							*							*	
	Odessa	1013·1	46	SW	3	b	1005·9	−2	39	−6	NNE	3	bc	–	*	39
	Tarkhankout	1011·1	46	W	3	b	1004·3	*	46	–	NE	4	bc	–	*	37
	Soukhoum	1009·9	59	–	0	bc	1004·7	−3	54	−2	SE	2	f	–	*	?
Mediterranean.	Venice	1012·6	50	–	0	m	1012·6	*	46	+1	–	0	m	–	59	43
	Pesaro	1013·8	46	–	0	o	1012·7	*	50	+7	SW	1	c	–	55	39
	Rome	1015·9	50	N	1	b	1013·7	*	46	0	NE	1	b	–	59	39
	Viesti	1014·7	48	NNW	2	b	1015·1	*	52	+2	WNW	1	b	–	54	43
	Brindisi	1012·9	52	NW	6	b	1011·3	*	45	−3	W	3	b	1	54	45
	Cagliari	1015·0	59	NW	3	b	1013·7	*	57	+2	NE	3	o	–	64	52
	Palermo	1017·1	52	–	0	b	1014·3	*	54	+4	E	2	o	–	61	37
	Tripoli						1018·7	*	61	–	SSW	1	b	–	70	43
	Algiers	1016·6	59	NE	4	bc	1016·8	+2	59	+4	NNE	4	m	1	63	55
Sweden.	Hernösand	1014·2	34	S	2	bc	1020·4	*	36	−1	–	0	f	*	*	*
	Stockholm	1014·7	37	SE	2	b	1013·2	*	34	−3	NE	2	s	*	*	*
	Wisby	1011·6	39	E	2	b	1006·3	*	37	−4	NE	2	o	*	*	*

Morning of 21st: Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		F	F			
Isafjord	1028·2	23	−5	–	0	b
Reykjavik	1023·8	34	+2	E	2	c
Vestmanna						
Seydisfjord	1027·9	25	−3	–	0	c
Thorshavn	1025·6	39	+1	–	0	b

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

22nd and 23rd APRIL, 1917.	Sunrise.	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4.43 / 4.41	11.52 / 11.51	7.0 / 7.1
Greenwich	4.53 / 4.51	11.59 / 11.58	7.5 / 7.6
Wick	4.45 / 4.43	12.11 / 12.10	7.36 / 7.38
Valencia	5.33 / 5.31	12.46 / 12.39	7.46 / 7.48

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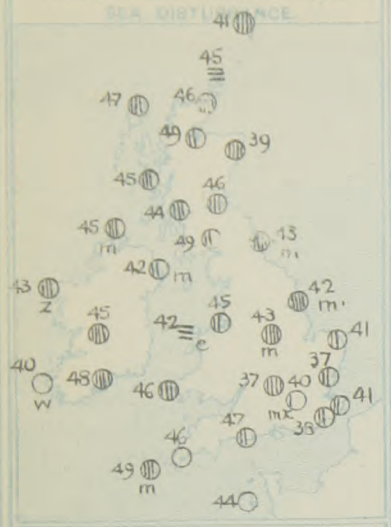
Printed at the Meteorological Office, South Kensington, London, S.W. 7.

THE MORNING OF SUNDAY, 22ND APRIL, 1917.

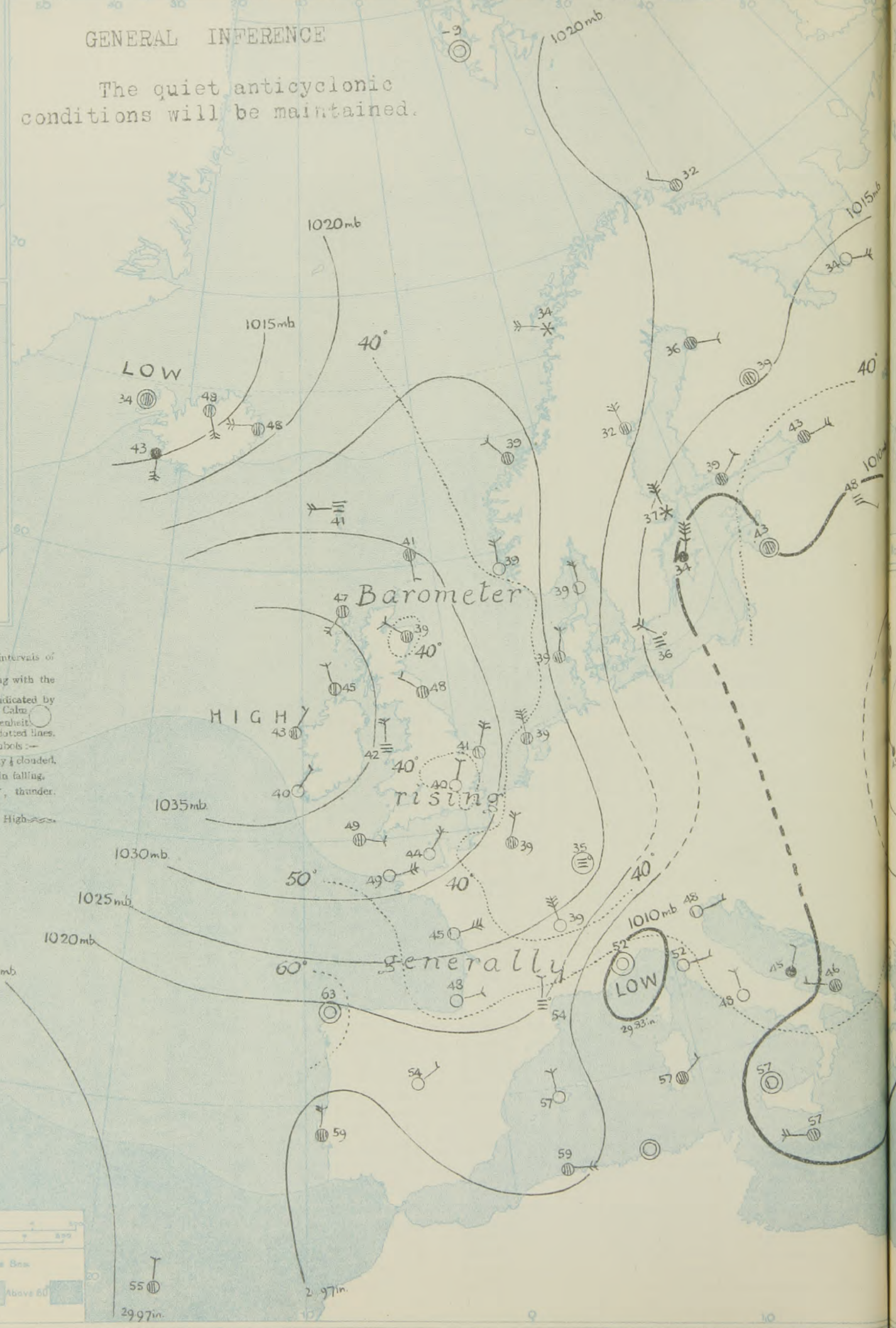
TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

GENERAL INFERENCE

The quiet anticyclonic conditions will be maintained.



EXPLANATION.

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

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

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

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

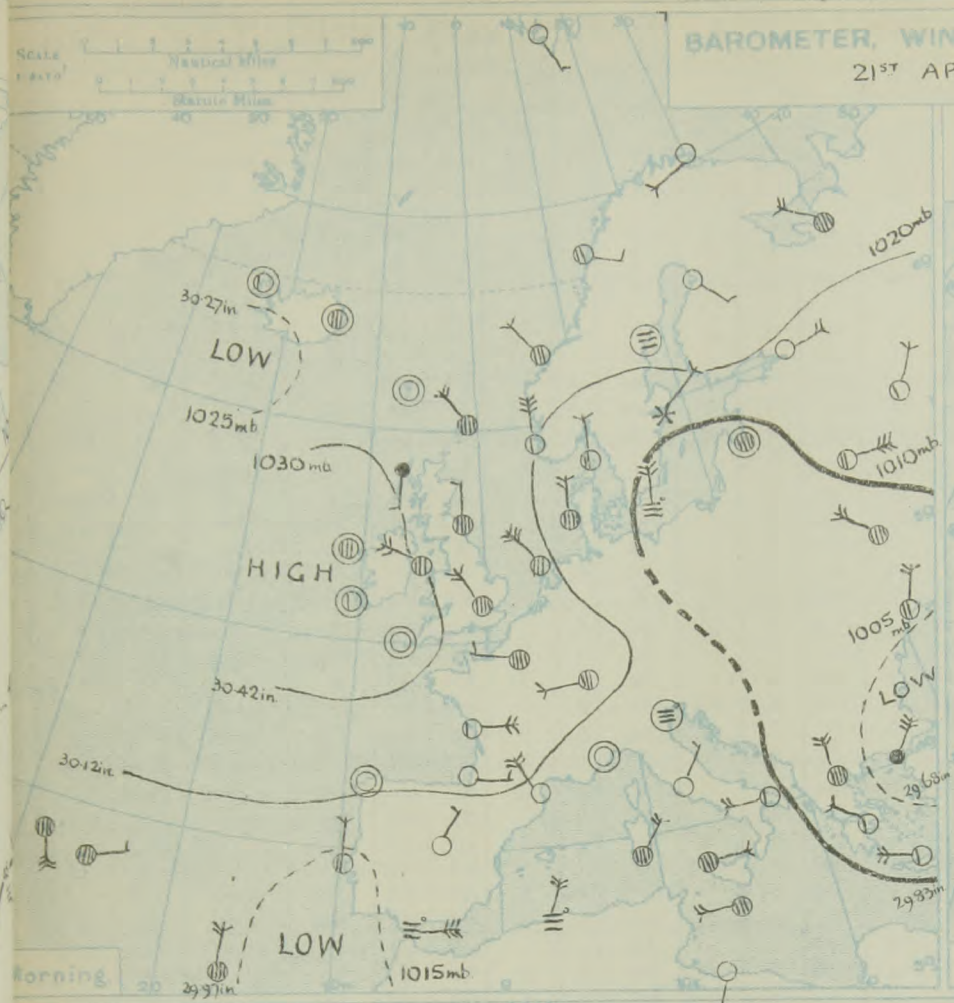
SEA DISTURBANCE.—Rough ~~. High ≈≈.

Normal Temperature of the Sea

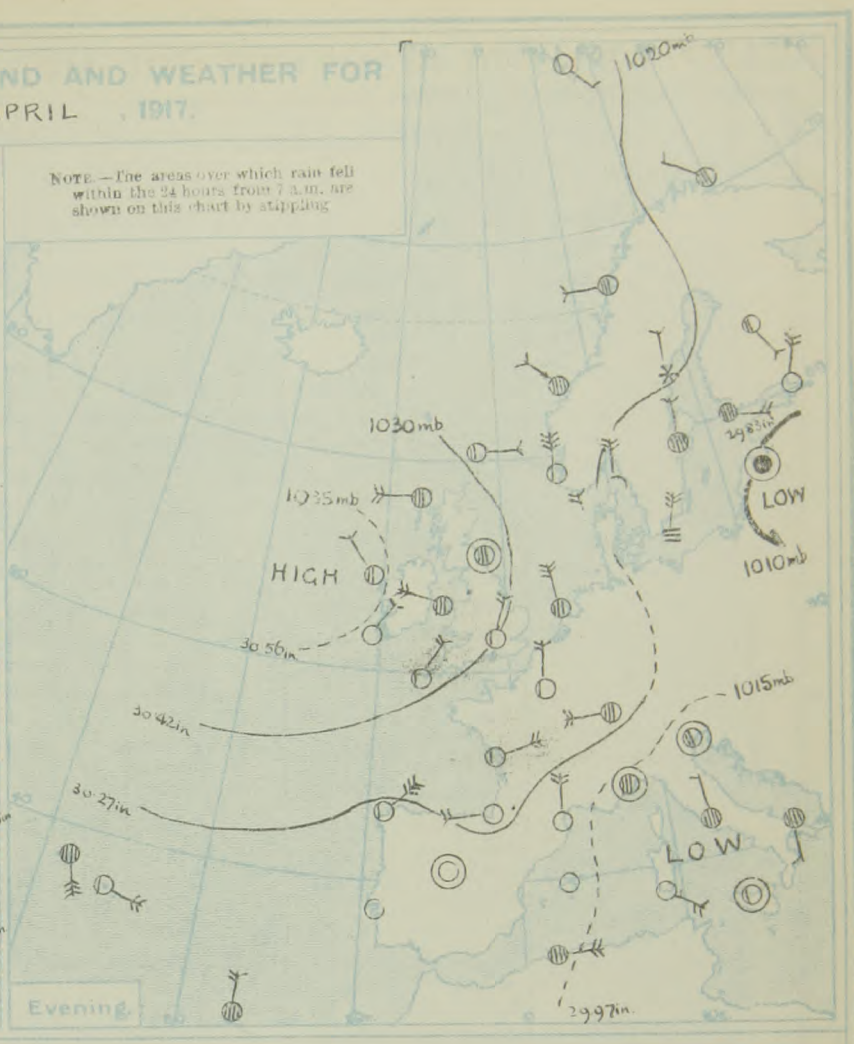
Below 40° | 40°-50° | 50°-60° | Above 60°

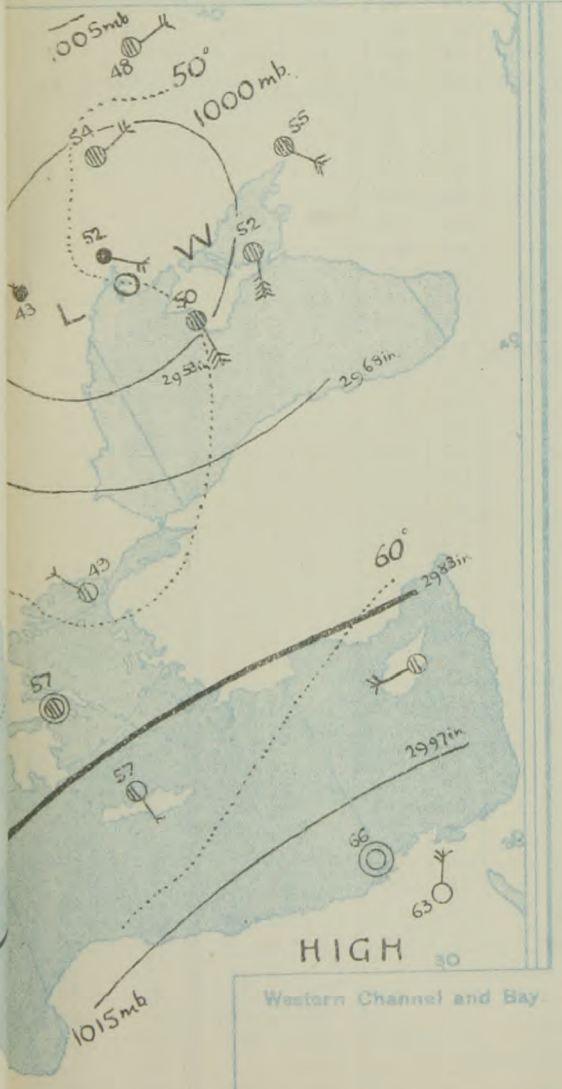
Scale of Plots for APRIL.

BAROMETER, WIND AND WEATHER FOR 21ST APRIL, 1917.



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





FORECASTS FOR NOON SUNDAY TO NOON MONDAY

0, 1, 2(a, b): Light variable breezes, mainly northerly; fine to cloudy; cool.

3, 4(a, b, c), 5: Light to moderate Northerly breeze, veering Easterly; cloudy to fine; cool.

6(a, b), 7(a, b): Same as Nos. 0, 1 and 2

8(a, b): Same as Nos. 3,4, and 5

9(a, b): Same as Nos. 0,1 and 2

10(a, b): Same as Nos. 3,4, and 5

11: Moderate or fresh Easterly breeze; sea moderate or rather rough; fine generally; cool.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 112. { Sunday, 22nd APRIL.

	STATIONS	EVENING OF 21st					MORNING OF 22nd									24 HOURS ENDED 7 A.M. 22nd						Sunshine for 21st
		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 ...	1029·9	43	E	2	bc	1030·9	0	41	+1	S	1	—	o	1	1	46	38	o.bc	bc	o	*
	Deerness (Orkney)	1030·5	42	NE	3	r	1031·1	*	45	+3	W	4	—	f	2	4	49	39	c.	bc.c.op	orf	7·2
	Stornoway ...	1031·3	51	W	4	c	1034·1	+1	47	+4	SW	3	—	c	3	1	52	42	odm.o	o.c	o.c	0·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1031·0	56	WNW	2	bc	1034·0	+2	44	-3	W	2	N	c	*	—	60	41	* c *	o.c.bc	bc.b.bc	5·7
	Eskdalemuir ...	1030·8	50	SE	1	o	1033·1	0	49	+2	NW	3	N	bc	*	—	54	32	c.bc.o	o.cu.ou	ou.bf	5·0
	Malin Head ...	1033·6	48	WNW	3	bm	1036·1	+1	45	-1	NNW	2	NW	cm	2	—	49	43	cm	bcm	cm	4·7
	Blacksod Point	1035·2	48	NW	2	bc	1036·6	0	43	-3	NE	1	—	cz	2	1	53	41	bc	bc	bc.cmp	*
	Valencia (Cahirciveen)	1034·2	57	NNE	2	b	1035·8	+1	40	-4	NE	1	NE	bw	3	—	59	36	b.bc	bcr.b	b.bw	11·3
	Roche's Point	1033·9	57	NNE	1	c	1035·4	*	48	+1	NNW	1	—	o	1	—	63	46	bc	bcg.	c.o	*
	Birr Castle ...	1033·6	51	N	1	o	1036·7	*	45	0	N	1	—	o	*	—	56	44	o	o	o	0·2
	Donaghadee ...	†1032·7	49	N	4	bcz	1034·8	+2	42	-5	NNW	2	—	bcm	2	—	52	42	bz	bz	bcz.bz	*
	Liverpool (Bidston)	1031·3	47	W	2	o	1033·6	+1	45	0	WSW	3	—	bc	1	—	51	42	o.b	b.o	b.c	3·7
	Holyhead ...	1032·1	47	WNW	4	c	1034·6	+1	42	-3	N	3	—	fe	2	—	52	41	c.bc.b	b.bc	bc.cfe	7·5
	Pembroke (St. Ann's)	1032·2	53	N	4	b	1034·1	+2	46	-2	NNW	2	—	o	1	—	58	43	c.bc.b	b	b.bc.c.o	10·8
	Scilly (St. Mary's)	1031·7	51	NE	3	b	1033·0	0	49	0	ESE	2	SE	cm	3	—	55	47	b.	b	bc.c.om	12·6
	Falmouth ...	1030·5	56	N	4	b	1033·3	+2	46	+1	E	2	—	b	*	—	58	44	bcg	bg.b	bw	11·8
	Jersey (St. Aubin)	1028·7	54	N	3	b	1031·9	*	44	-5	NE	3	—	b	2	—	57	41	b	b.bc.b	b	11·0
	Portland Bill ...	1028·7	60	NNE	1	bc	1032·7	+2	47	0	NNE	2	NE	bc	2	—	60	46	bc.c	c.bc	bc.b	*
	Dungeness ...	1028·5	44	NE	4	bc	1030·6	+1	38	-9	N	3	N	bc	3	—	50	32	c.o	o.c	bc.bcx	*
	Dover ...	1029·3	42	NE	4	bc	1031·1	+1	41	-3	N	4	N	bc	4	—	54	35	o.c	c.bc	bc.c	0·2
	Wick	1030·8	43	—	0	p	1032·5	+2	46	+4	WNW	3	—	o	2	4	50	40	cm	c.omd	omd	*
	Nairn	1030·6	51	—	0	cg	1032·4	*	49	+5	W	2	—	bc	2	—	52	43	cg	cg.o	cg	0·1
	Aberdeen ...	1031·0	45	SSE	1	o	1032·2	+1	39	-5	NW	2	—	o	2	0·4	52	41	bc.c.o	o.c.o	od.o	1·0
	Leith	1030·4	47	E	1	o	1033·2	0	46	+4	W	1	NW	c	1	—	48	40	ome.o	o.c.o	o.cx.bc	*
	Tynemouth ...	1031·3	45	—	0	c	1032·1	0	48	+7	NW	1	—	om	3	—	48	40	om	cm	om	*
	Spurn Head ...	1031·3	45	N	5	bcq	1032·4	0	42	0	N	1	—	om	3	—	48	37	bcq	bcq	b	3·7
	Yarmouth (Gorleston)	1029·0	42	NNE	4	bc	1031·3	+1	41	-2	NNE	4	—	bc	3	—	47	35	om.bcq	bc	bc	3·8
	Clacton-on-Sea	1029·1	46	N	3	bc	1032·0	+1	37	-9	NNW	3	N	bc	2	—	50	35	og	og.c.bc	bc.bcm	1·3
	Nottingham ...	1030·8	49	NNE	2	o	1032·9	*	43	-6	W	1	—	om	*	—	52	41	om	o.c	cg	0·6
	Benson (Oxon.) ...	1029·6	47	NNE	2	bc	1032·5	+1	37	-8	—	0	—	o	*	—	51	30	o	bc	b	*
	Sth Farnborough	1029·3	48	NNE	2	o	1032·4	+2	42	-6	NNW	2	—	c	*	Trace	55	32	o	od.c.o	o.b.o.c	0·4
	London (Kew Obsy.)	1030·1	48	NNE	3	b	1033·1	+2	40	-10	NNE	2	—	b	*	0·3	52	35	o	o.or.od.bc.b	b.bc.bmx	0·8
NORTHERN EUROPE.	Spitsbergen ...	1023·9	-8	SE	1	b	1021·5	-1	-9	+8	—	0	*	b	*	*	-2	-22				
	Vardö	1020·8	30	—	0	s	1018·4	0	32	+5	NW	1	—	c	2	*	32	18				
	Bodö	1021·3	37	W	2	c	1023·4	+1	34	-3	WNW	4	—	s	2	—	39	28				
	Christiansund ...	1027·4	39	NW	2	o	1026·0	+2	39	+2	NW	2	—	c	4	—	39	34				
	Skudesnaes ..	1019·9	39	N	6	b	1028·0	+2	39	-2	N	3	—	b	2	—	45	32				
	Færder (X'tiania Fjord)	1020·7	43	N	2	c	1024·7	+3	36	-1	N	6	—	b	2	—	43	32				
	The Scaw (Skagen)	1018·3	43	N	2	c	1023·1	+3	39	0	N	4	—	b	4	—	45	36				
	Blaavands Huk	1021·2	41	NNW	3	b	1024·7	+3	39	0	NNE	2	—	c	3	—	43	36				
	Copenhagen ...	1015·3	41	NNE	5	o	1017·7	+2	48	+9	N	4	—	c	*	—	48	37				
	Bornholm ...	1011·7	36	NNE	5	f	1013·9	+1	36	+2	NW	4	—	m	1	Trace	37	34				
FRANCE, &c.	The Helder ...	1025·6	41	NNW	5	c	1027·7	+2	39	-2	NNW	6	—	c	3	—	43	39				
	C. Gris Nez ...	1028·3	43	NE	4	bc	1030·6	+2	41	-3	NNE	4	*	b	0	—	48	39				
	La Hève	1027·3	48	N	3	m	1031·0	*	39	-4	NNE	3	*	b	2	—	50	37				
	Brest (St. Mathieu)	1029·9	54	N	4	b	1032·0	+1	49	+3	ENE	4	*	b	2	—	64	45				
	Rochefort (Ile d'Aix)	1024·7	59	ENE	4	b	1027·4	+2	45	-1	ENE	5	*	b	*	—	68	43				
	Biarritz	1021·1	55	WSW	3	b	1022·7	+1	48	-2	ENE	2	*	b	2	—	61	43				
	Paris	1025·9	50	NNE	4	c	1029·6	+2	39	-7	NNE	3	—	o	*	—	55	37				
	Belfort	1023·3	41	W	4	c	1026·1	*	35	-8	—	0	*	m	*	1	49	32				
	Lyons	1023·3	47	NNE	4	c	1023·8	*	39	-4	NNW	6	*	b	*	—	54	36				
	Nice	1012·7	50	—	0	c	1007·9	0	52	-3	—	0	*	b	2	—	63	43				
	Perpignan ...	1018·4	64	N	4	b	1020·0	0	54	-5	N	2	—	m	*	—	73	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·1	61	NE	6	b	1019·3	0	63	+6	—	0	—	b	1	—	63	52				
	Madrid	1015·4	70	—	0	b	1017·6	+1	54	0	NE	1	—	b	*	—	72	50				
	Lisbon	1014·3	64	WSW	4	bc	1014·3	+1	59	+4	N	3	—	o	2	Trace	68	55				
	Azores (Horta) ..	1015·3	*	SSE	6	o	1009·3	-1	54	-3	SE	5	*	o	3	18	63	54				
	Madeira	1017·5	61	N	3	o	1017·6	0	55	-2	N	2	—	c	2	—	63	55				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1009·2	0	57	0	WNW	3	W	c	2	—	64	55				
	Limassol	*	*	*	*	*	1012·6	0	63	-1	W	3	W	bc	5	—	70	43				
	Alexandria ...	1016·4	61	NNW	4	bc	1016·2	0	66	0	—	0	—	b	0	—	73	57				
	Cairo (Helwan) ...	1015·5	66	N	3	b	1015·7	+1	63	0	NE	3	—	b	*	—	79	52				

LONDON OBSERVATIONS.	Humidity. 15 h. 21st	Humidity. 9 h. 22nd	Sunshine for 21st	24 Hours ended 9 h. 22nd April. Temperature. Max.	Temp. Min.	Temp. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	92	73	0.7	54	34	26	Trace	o	o.c.o	c.b.o
CITY (Bunhill Row)	*	*	0.2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	90	74	1.4	54	38	35	—	or	oe	or
CAMDEN SQ. (British Rainfall) ..	76	65	1.1	55	34	30	Trace	o	o	*
HAMPSTEAD (Reservoir)	*	68	1.0	51	33	23	Trace	o.bep	bc	bx.o
S. KENSINGTON (Museum Grounds)	*	68	0.4	55	37	27	Trace	bc.c.o	or.o.c	c.bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 22nd

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
486	9.6	42

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

RAINFALL

Equivalents of Millimetres in Inches.

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

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

Issue No. 20241. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Monday 23rd APRIL

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Sunday, 22nd APRIL, 1917.

Temperature was low generally, but exceeded 60° locally in Scotland. Sunshine varied greatly, from none to about ten hours.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Sunday, 22nd APRIL, ... UP TO 17 H.

	STATIONS.	Sunshine for 21st.	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 22nd
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	7·6	–	–	54	42	bc.b.	bc	7·7
	Banff	1·6	1	–	55	42	c.c	c.o	3·1
	Montrose	0·2	Trace	–	57	41	b	b	2·4
	St. Andrews								
Eng. N.E.	Harrogate	1·3	–	–	53	39	o.c	o.c	0·0
	Skegness	0·2	–	–	46	32	o	o	0·0
Eng. N.W.	Morecambe								
	Southport	5·0	–	–	51	43	c.o.c	c.bc.b	5·6
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl	*	–	–	47	42	c.c.bc	bc.b	9·3
	Colwyn Bay	*	*	*	55	45	bc	b	7·0
	Llandudno	*	*	*	51	41	c	c.b	8·8
	Aberystwyth	*	*	*	48	40	o.c.b	bc.c	7·0
England, E.	Lowestoft								
	Felixstowe	3·5	–	–	50	32	bc.c	c.bc	6·6
	Walton-on-Naze								
	Southend-on-Sea		–	–	49	34	b.bc	bc.c.o	2·0
England, S.E.	Margate		–	–	45	39	b	b.bc	9·5
	Hastings	2·1	–	–	50	36	o.bc.b	o	2·5
	Eastbourne	1·9	–	–	50	35	o	o	4·5
	Seaford								
	Brighton	2·9	–	–	54	35	b.c	c.o	6·3
	Worthing	1·9	–	–	52	34	b	b	4·7
	Littlehampton								
	Bognor								
	Bournemouth	4·8	–	–	54	37	b.o	o	3·6
England, S.W.	Weymouth		*	*					
	Torquay	*	–	–	59	47	b.bc	c.o	3·6
	Paignton								
	Penzance								
	Newquay	*	–	–	?	41	b	b	7·8
	Bude								
	Ilfracombe								
	Weston-s-Mare								

REPORTS FROM FOREIGN STATIONS FOR Sunday, 22nd APRIL

	STATIONS.	Evening of 21st. Barom. Millibars at M.S.L.	Evening of 21st. Temp.	Evening of 21st. Wind. Direc.	Evening of 21st. Wind. Force 0–12.	Evening of 21st. Weather.	Morning of 22nd. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.				‡	°F.	°F.						°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1027·2	−2	34	+2	ESE	3	b	–	*	25
	Gorki	1008·6	48	–	0	p	1008·6	0							*	
	Velieki Luki	1010·4	50	–	0	o	1009·0	*	48	+2	SE	1	f	–	*	43
	Hangö	1013·3	41	ESE	3	o	1010·9	−1	39	+2	ENE	2	o	–	*	32
	Riga	1010·0	48	–	0	p	1010·0	+2	43	−5	–	0	o	11	*	43
	Petrograd	1016·6	50	NE	4	b	1013·5	−1	43	0	E	3	o	–	57	39
	Moscow	1014·4	54	SE	4	p	1014·1	+1	50	+11	SE	3	o	–	*	48
	Kiev	1008·7	48	NNE	4	b	1004·2	+3	48	+3	NNE	4	o	–	*	46
	Kharkov	1004·6	54	E	3	b	1004·6	0	48	−2	ENE	3	c	–	*	46
	Kishinev	1001·5	50	NNW	3	o	995·5	−6	43	+4	NW	4	p	15	*	41
	Elisabetgrad	1001·3	55	NNE	3	c	999·1	0	54	+13	ENE	3	o	5	*	62
	Nicolaiev	999·7	55	–	0	p	997·0	*	52	—	SE	3	p	30	*	37
	Odessa	999·3	52	SSE	2	p	996·0	+1	48	+9	SE	3	p	12	*	48
	Tarkhankout	999·0	50	SW	1	bc	998·4	*	50	+4	S	4	o	4	*	48
	Soukhoum														*	
Mediterranean.	Venice	1014·9	48	–	0	bc	1014·7	*	48	+2	–	0	b	1	55	45
	Pesaro	1014·7	48	NW	1	b	1014·6	*	48	−2	NW	2	b	–	57	41
	Rome	1012·1	50	N	1	o	1011·7	*	48	+2	N	2	b	2	61	43
	Viesti	1013·1	52	–	0	o	1011·1	*	45	−7	NE	1	p	3	59	43
	Brindisi	1012·2	54	S	1	o	1008·7	*	46	+1	NW	1	o	4	57	46
	Cagliari	1013·7	59	SE	3	b	1011·4	*	57	0	NE	1	o	–	64	52
	Palermo	1010·9	57	–	0	b	1009·8	*	57	+3	–	0	b	–	66	43
	Tripoli						1009·5	*	64	+3	–	0	bc	–	73	54
	Algiers	1016·7	59	E	4	o	1015·9	+1	59		E	4	c	?	63	57
Sweden.	Hernösand	1020·4	34	N	2	S	1020·2	*	32	−4	NNW	4	c	*	*	*
	Stockholm	1014·4	34	N	2	o	1014·0	*	37	+3	N	6	S	*	*	*
	Wisby	1012·0	36	N	2	o	1008·2	*	34	+3	NNE	8	p	*	*	*

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.

‡ The barometric change is expressed in half-millibars.

ICELAND.	Morning of 22nd. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1011·9	34	+11	–	0	o
Reykjavik	1014·9	43	+9	S	5	p
Vestmanna						
Seydisfjord	1016·6	48	+23	W	4	c
Thorshavn	1027·7	41	+2	W	3	m

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

23rd and 24th APRIL, 1917.	Sunrise. G.M.T	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.41 / 4.39	11.51 / 11.51	7.1 / 7.2
Greenwich	4.51 / 4.49	11.58 / 11.58	7.6 / 7.7
Wick	4.43 / 4.41	12.10 / 12.10	7.38 / 7.40
Valencia	5.31 / 5.29	12.39 / 12.39	7.48 / 7.50

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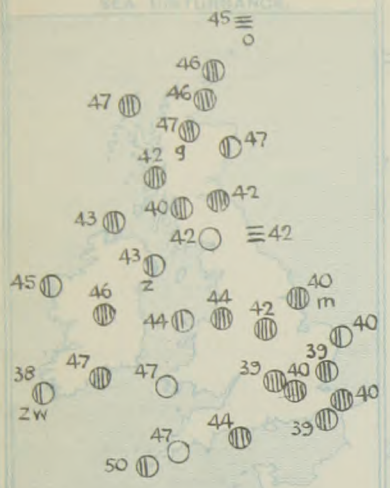
TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

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

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

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

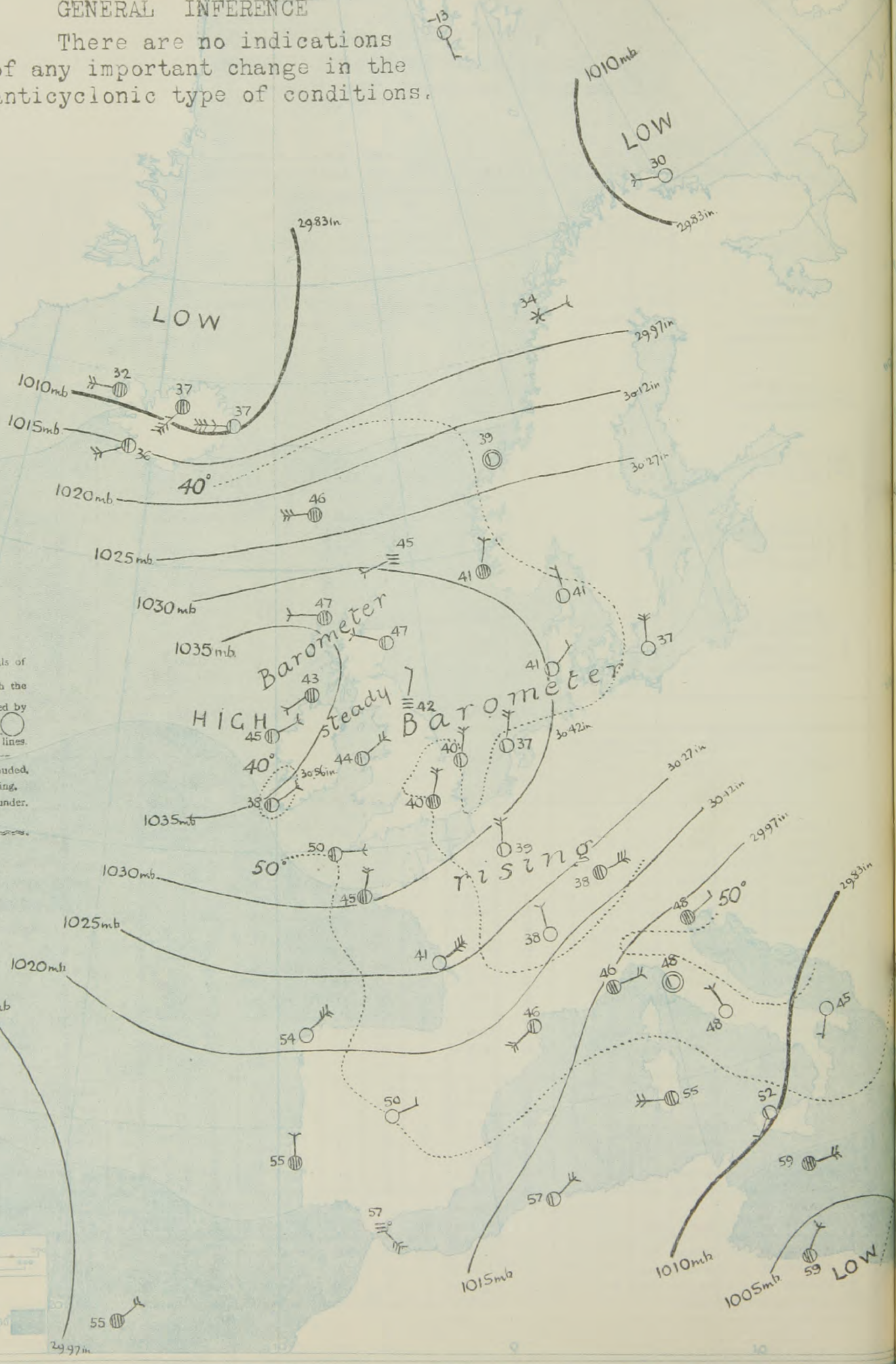
WEATHER.—Shown by the following symbols:—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

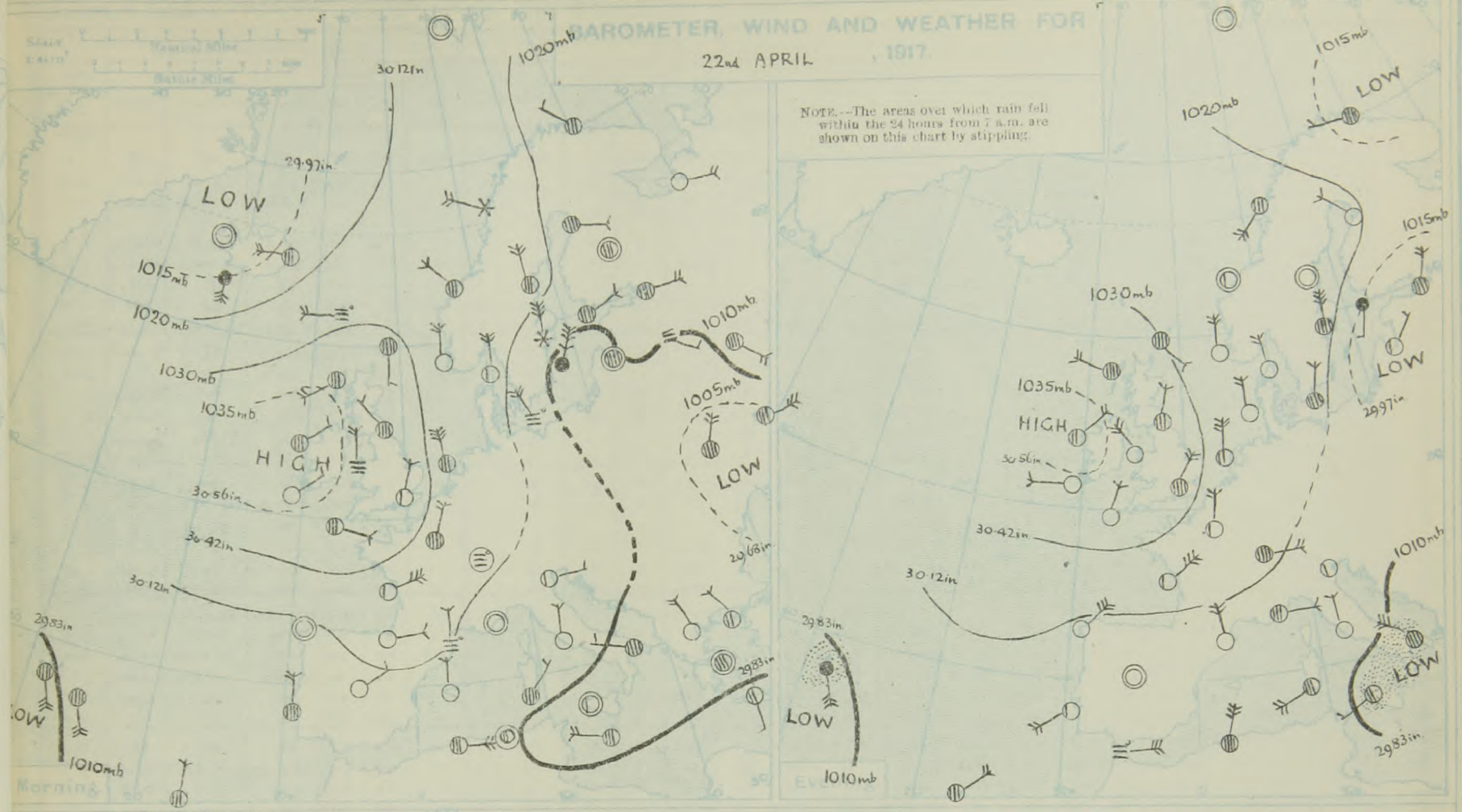
THE MORNING OF MONDAY, 23RD APRIL, 1917.

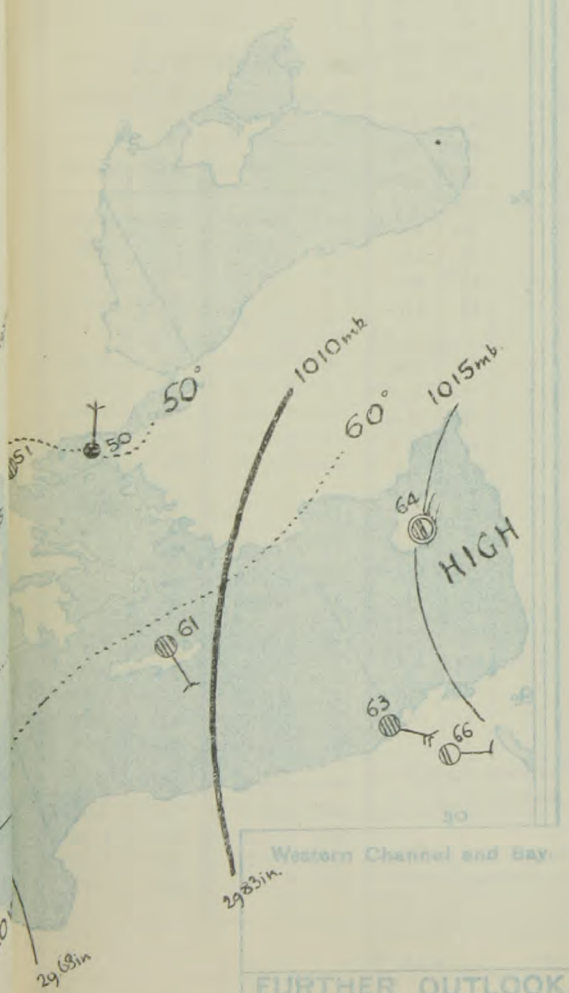
GENERAL INFERENCE

There are no indications of any important change in the anticyclonic type of conditions.



BAROMETER, WIND AND WEATHER FOR 22nd APRIL, 1917.





FORECASTS FOR NOON MONDAY TO NOON TUESDAY

1 { Light W. breeze; cloudy to fine; moderate temperature.

2 { Light variable breeze; cloudy to fine; cool.

3 4 5 6 7 8 9 10 } Light breeze between N. and E; cloudy to fine; cool.

11 { Moderate to fresh NE. to E. breeze; sea moderate to rather rough; cloudy to fine; cool.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 113. { Monday 23rd April.

	STATIONS.	EVENING OF 22nd				MORNING OF 23rd								24 HOURS ENDED 7 A.M. 23rd					Sunshine for 22nd
		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.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·0	46	SE	2	of	1029·4	0	45	+4	vrbW	3	-	of	3	0·2	49	41	of	of	of	*
	Deerness (Orkney)	1031·5	47	WNW	4	c	1031·8	*	46	+1	W	4	W	c	2	—	50	42	of	o.c	c.o.c	0·5
	Stornoway ...	1034·5	50	WNW	3	o	1033·9	0	47	0	W	2	—	c	2	0·3	52	43	c.ap	o.c.o	o.c.bp	1·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1033·1	56	W	3	b	1034·2	+1	40	-4	E	1	N	c	*	—	62	36	cp.c	bc.b	b.bcmx	6·7
	Eskdalemuir ...	1032·7	54	NW	2	o	1034·1	+1	42	-7	NNE	1	—	b	*	—	61	34	bc.cv	cv.om.o	o.c bc.b	2·9
	Malin Head ...	1035·1	47	NW	1	f	1035·2	0	43	-2	SW	2	—	c	2	—	50	42	fc	f	bc	7·5
	Blacksod Point	1035·5	48	NE	3	bc	1035·4	0	45	+2	NE	2	NE	bc	2	—	52	42	cg.	bc	bc	*
	Valencia (Cahirciveen)	1034·9	52	W	2	b	1034·9	0	38	-2	NE	2	SW	bczW	2	—	56	36	b.bc.c	c.bcz	bz.bcz	9·9
	Roche's Point	1035·0	52	SE	2	b	1034·9	*	47	-1	N	1	—	o	1	—	55	43	oz.c.b	b.	b.om	*
	Birr Castle ...	1035·0	54	N	1	o	1034·7	*	46	+1	NNW	1	—	o	*	—	56	44	o.c.o	o	o	0·8
	Donaghadee ...	1034·6	47	N	4	bz	1034·2	+2	43	+1	W	2	W	bcz	1	—	50	40	bz	bz	bz.bcz	*
	Liverpool (Bidston)	1033·3	50	W	1	b	1033·4	0	44	-1	WSW	2	W	o	1	—	51	43	bc	b	bc.o	8·4
	Holyhead ...	1033·9	46	NW	4	b	1034·2	0	44	+2	NE	3	—	bc	2	—	50	42	cf.bf	f.bf.b	b.bc ov	6·1
	Pembroke (St. Ann's)	1033·5	53	N	3	b	1033·1	0	47	+1	N	1	—	b	1	—	59	44	c.bc.b	b	b.bc.b	8·7
	Scilly (St. Mary's)	1033·1	50	NNE	2	bm	1032·3	0	50	+1	E	2	NE	bc	3	—	57	46	cm	bm	b.bc	10·0
	Falmouth ..	1031·6	55	N	3	bz	1032·0	+1	47	+1	N	3	—	b	*	—	55	44	b.bc.cg	og.bc.b	bw	7·2
	Jersey (St. Aubin)	1030·7	48	NW	3	og		*											b.	bc.cg		
	Portland Bill ...	1031·7	46	WNW	2	o	1032·2	+1	44	-3	ENE	3	NE	o	2	—	52	43	bc.c.o	o	o.c	*
	Dungeness ...	1029·8	46	NE	3	bc	1030·0	0	39	+1	NE	4	NE	c	3	—	49	35	bc	bc	b.bc	*
	Dover	1030·4	43	NE	4	b	1030·8	0	40	-1	NNE	4	NE	o	2	—	53	34	bc.b	b.bc.c.b	b.bc.c.c	8·6
	Wick	1032·6	49	WNW	3	c	1033·1	+1	46	0	WNW	2	—	o	2	—	54	42	o.c.bcm	bcm.c	c.og	*
	Nairn	1033·0	54	W	2	bc	1033·7	*	47	-2	W	2	—	cg	2	—	61	44	bcq	bc.c	bc.cg	6·0
	Aberdeen ...	1033·3	49	S	1	o	1034·0	+1	44	+8	WNW	2	SW	bc	2	0·1	60	39	c.bc	bc.c.op	o.c.bc	3·4
	Leith	1032·2	48	NE	1	c	1034·1	+1	42	-4	NE	1	—	om	1	—	62	40	c.bc.c	c.bc.o.c	c.bms	*
	Tynemouth ...	1033·4	47	N	2	c	1033·8	0	42	-6	NNE	1	—	f	3	—	50	41	cm	bc	om	*
	Spurn Head ...	1032·4	43	NE	2	o	1033·7	0	40	-2	NE	2	—	om	3	—	49	39	c	o	bc	0·0
	Yarmouth (Gorleston)	1031·2	44	NE	3	bc	1031·9	+1	40	-1	NNE	3	—	bc	3	—	47	37	bc	bc	bc	10·1
	Clacton-on-Sea	1030·8	46	N	3	bc	1032·3	0	39	+2	N	2	NE	c	2	—	49	35	bc.c.o	o.c.bc	bc.c	4·5
	Nottingham ...	1032·7	51	NE	2	c	1033·7	*	42	-1	NE	2	NE	o	*	—	56	39	o.c	c.o	c.b	0·5
	Benson (Oxon.) ...	1031·1	50	NE	1	o	1032·5	+2	39	+2	NE	2	—	o	*	—	53	36	bc	o	o	*
	Sth Farnborough	1030·9	49	NNE	2	o	1032·2	+1	40	-2	NNE	3	—	c	*	—	52	36	c.o	o	o.c	1·1
	London (Kew Obsy.)	1031·6	49	NE	4	o	1033·0	+2	40	0	NNE	3	NE	o	*	—	50	36	bmx.bc.o	o	o	1·7
NORTHERN EUROPE.	Spitsbergen ...	1017·6	-6	—	0	b	1013·0	-3	-13	-4	S	1	*	b	*	*	1	-20				
	Vardö	1014·4	28	W	1	o	1009·7	0	30	-2	WNW	3	—	b	4	*	34	27				
	Bodö	1024·7	36	SW	4	c	1011·7	0	34	0	E	2	—	s	2	?	37	30				
	Christiansund ...	1029·2	39	—	0	b	1023·5	-2	46	+7	W	4	—	o	4	—	43	34				
	Skudesnaes ..	1029·5	39	N	4	b	1031·3	+1	41	+2	NNE	2	—	o	2	—	43	36				
	Færder (X'laniaFjord)	1027·5	41	NNW	4	b	1029·5	0	39	+3	SE	1	N	b	0	—	43	36				
	The Scaw (Skagen)	1025·2	43	NNW	3	b	1029·6	+2	41	+2	N	1	—	b	1	—	45	?				
	Blaavands Huk	1027·7	41	N	3	b	1029·7	+1	41	+2	NE	1	—	b	1	—	43	34				
	Copenhagen ...	1023·7	45	N	3	c	1029·1	+3	43	-5	N	2	NE	b	?	—	46	39				
	Bornholm ...	1020·3	39	NNE	2	o	1026·3	+3	39	+1	NNE	4	—	b	1	—	39	34				
FRANCE, &c.	The Helder ...	1028·6	41	N	5	bc	1031·3	+1	37	-2	NNE	3	E	b	1	—	43	37				
	C. Gris Nez ...	1029·9	42	NE	4	b	1030·9	+1	39	-2	NE	4	*	o	3	—	50	39				
	La Hêve	1029·6	43	NNE	2	c	1030·1	*	39	-2	ENE	2	*	bc	2	—	50	36				
	Brest (St. Mathieu)	1031·0	55	ENE	5	b	1031·1	0	45	-4	NNE	3	*	c	2	—	57	41				
	Rochefort (Ile d'Aix)	1025·2	52	NE	5	b	1026·4	+2	41	-4	NE	6	*	b	*	—	61	39				
	Biarritz												*									
	Paris	1027·4	46	N	3	b	1028·4	+1	39	0	N	3	N	b	*	—	52	38				
	Belfort	1023·9	37	E	3	c	1024·8	*	38	+3	ENE	5	*	c	*	?	43	30				
	Lyons	1022·4	43	N	5	b	1020·6	*	38	-1	N	2	*	b	*	—	50	34				
	Nice	1014·0	48	E	2	c	1014·9	+3	46	-6	E	3	*	c	6	—	61	43				
	Perpignan ...	1015·4	59	NNW	4	b	1017·7	+2	46	-8	SW	4	N	bc	*	—	68	43				
	Sanguinaire ...	1014·1	58	W	4	b	1012·7	*	49		E	3	*	c	3	—	59	45				
SOUTHERN STATIONS.	Corunna	1018·3	64	NE	5	b	1021·6	+2	54	-9	NE	5	—	b	3	—	66	48				
	Madrid	1011·4	72	—	0	b	1017·3	+2	50	-4	ENE	1	—	b	*	—	73	43				
	Lisbon	1014·3	68	SW	4	b	1015·7	+1	55	-4	N	2	—	o	2	—	73	55				
	Azores (Horta) ...	1008·3	*	SSE	5	r	1005·2	0	57	+3	SSE	6	*	r	5	18	63	57				
	Madeira	1017·7	61	NE	3	c	1017·3	0	55	0	NE	3	—	o	3	—	61	55				
	Gibraltar	1016·6	59	E	5	m	1016·2	*	56		SE	5	*	m	2	Trace	64	55				
	Malta	*	*	*	*	*	1007·1	-1	59	+2	E	4	—	o	4	—	63	54				
	Limassol	*	*	*	*	*	1015·0	+1	64	+1	—	0	—	c	5	—	68	46				
	Alexandria ...	1014·6	64	ENE	2	b	1013·6	0	63	-3	SE	3	—	o	2	—	73	57				
	Cairo (Helwan) ...	1013·7	42	N	2	b	1013·3	+1	66	+3	ESE	1	NW	bc	*	—	73	61				

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. 22nd	Humidity. 9 h. 23rd	Sunshine for 22nd	24 Hours ended 9 h. 23rd: Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	76	73	2·7	51	35	29	—	o.c.b	o.c	c
CITY (Bunhill Row)	*	*	2·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	68	76	2·3	52	38	36	Trace	b	b.bem	sm
CAMDEN SQ. (British Rainfall) ..	—	67	2·2	53	36	31	—	—	—	*
HAMPSTEAD (Reservoir)	*	74	2·7	49	34	25	—	c.oe	oe	cx
S. KENSINGTON (Museum Grounds)	*	72	2·5	52	37	31	—	bc	o	c.bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 22nd

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
951	18·6	42·5

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

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

Issue No. 20,242. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Tuesday 24th APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Monday, 23rd APRIL, 1917.

Temperature rose to 60° at Bude and 61° at Pembroke and to above 55° at some other Western stations and also in the East of Scotland. Bright sunshine records were high in many parts of England, but low in Ireland and Scotland

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Monday, 23rd APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 22nd	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 23rd
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	8.0	–	–	56	37	o	bc	4.0
	Banff	4.4	–	–	55	37	bc.c	c.o	3.3
	Montrose	2.4	–	–	57	41	o	o	0.3
	St. Andrews	*	–	–	54	37	c	bc.b	1.6
Eng. N.E.	Harrogate	0.7	–	–	54	41	om	c.bc.c	1.4
	Skegness	0.0	–	–	45	35	o	bc	6.4
Eng. N.W.	Morecambe	*	–	–	53	45	–	–	0.0
	Southport	?	–	–	49	43	o.c.o	o.c.o	0.0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0.5	–	–	56	39	o	bcm	3.5
Wales.	Rhyl	11.6	–	–	48	43	b.bd	c.bc	5.0
	Colwyn Bay	*	*	*	49	43	bc	b	6.0
	Llandudno	*	*	*	53	41	c	c.b	5.9
	Aberystwyth	*	*	*	48	40	o.c.b	b.bc	7.5
England. E.	Lowestoft	*	–	–	44	38	c.bc	bc	6.3
	Felixstowe	7.4	–	–	44	34	c.bcv	bv	8.7
	Walton-on-Naze	*	–	–	44	35	bc	b	8.0
	Southend-on-Sea	2.3	–	–	48	34	c.bc	bv	8.6
England, S.E.	Margate	9.5	–	–	42	38	c.bc.b	b	5.8
	Hastings	2.5	–	–	49	34	bc.b	b	11.0
	Eastbourne	4.5	–	–	47	34	bc.b	b	8.3
	Seaford	*	–	–	51	32	b	b	9.5
	Brighton	6.3	–	–	53	36	bc	bc.b	9.6
	Worthing	4.7	–	–	52	36	bc.b	b	9.7
	Littlehampton								
	Bognor								
	Bournemouth	3.6	–	–	53	40	b.o	b	9.0
England, S.W.	Weymouth	*	*	*	54	44	c.bc	bx	6.5
	Torquay	3.6	–	–	55	46	o.c.bc.b	b	6.8
	Paignton								
	Penzance	*	–	–	55	46	b	bc	10.4
	Newquay	9.2	–	–	54	43	b	b	8.9
	Bude	*	–	–	60	40	bc.c	bc.c	6.6
	Ilfracombe	*	–	–	55	49	x	x	2.2
	Weston-s-Mare	*	–	–	57	43	c.bc	b.bcx	6.0

REPORTS FROM FOREIGN STATIONS FOR Monday, 23rd. APRIL.

	STATIONS.	Evening of 22nd. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 23rd. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel					—	1011·5	+1	34	0	NW	4	r	2	*	34
	Gorki						1009·0	0	45	—	SE	1	o	2	*	32
	Velieki Luki						1010·3	*	46	-2	–	0	f	–	*	41
	Hangö	1013·9	39	–	0	r	1018·7	+3	36	-3	NNE	5	o	–	*	34
	Riga	1013·6	39	NE	1	b	1014·4	0	36	-7	W	1	o	–	*	36
	Petrograd	1011·4	55	NNE	3	c	1012·2	+3	43	0	NE	3	r	–	63	43
	Moscow	1013·2	46	N	2	o	1012·2	0	45	-5	E	2	o	–	*	43
	Kiev	1003·1	55	NNE	3	o	1002·6	0	48	0	ESE	3	r	18	*	48
	Kharkov	1004·6	52	NNE	2	c	1009·2	+2	48	0	SE	2	o	2	*	43
	Kishinev														*	
	Elisabetgrad	1001·0	50	ENE	2	o	1002·4	+2	46	-8	ESE	3	c	31	*	43
	Nicolaiev	1000·2	45	SSE	2	o	1003·8	*	48	-4	SSE	2	r	1	*	45
	Odessa	1000·2	48	S	2	o	1002·4	+1	45	-3	WSW	3	o	–	*	43
	Tarkhankout							*							*	
	Soukhoum	1008·2	50	SW	6	c	1010·2	*	66	—	SSW	5	bc	3	*	45
Mediterranean.	Venice	1014·1	50	–	0	b	1014·3	*	48	0	–	0	o	20	55	40
	Pesaro	1014·3	46	N	1	b	1014·6	*	52	+4	NE	2	c	–	55	43
	Rome	1011·9	48	N	2	b	1011·7	*	48	0	NNW	2	b	–	59	41
	Viesti	1010·3	48	NW	2	bc	1010·9	*	52	+7	N	1	c	–	59	43
	Brindisi	1008·5	50	NW	5	o	1007·7	*	45	-1	SW	1	b	18	54	45
	Cagliari	1011·0	57	WSW	4	c	1012·0	*	55	-2	WNW	4	c	2	66	50
	Palermo	1009·7	55	WSW	1	bc	1010·3	*	52	-5	SW	1	b	–	66	37
	Tripoli						1004·2	*	59	-5	NE	2	c	Trace	73	55
	Algiers	1014·9	57	NNE	5	o	1014·7	o	57	-2	NE	3	bc	4	63	50
Sweden.	Hernösand	1022·3	43	–	o	b	1026·1	*	36	+4	–	o	b	*	*	*
	Stockholm	1020·6	37	N	6	o	1026·0	*	37	o	N	2	b	*	*	*
	Wisby	1015·0	34	N	6	o	1021·7	*	36	+2	N	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	1008·3	32	-2	W	4	o
Reykjavik	1015·1	36	-7	WSW	4	bc
Vestmanna						
Seydisfjord	1009·3	37	-11	W	8	b
Thorshavn	1022·6	46	-5	W	5	o

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

24th and 25th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.39 / 4.37	11.51 / 11.51	7.2 / 7.4
Greenwich	4.49 / 4.47	11.56 / 11.58	7.7 / 7.9
Wick	4.41 / 4.38	12.10 / 12.10	7.49 / 7.42
Valencia	6.29 / 5.27	12.39 / 12.39	7.50 / 7.52

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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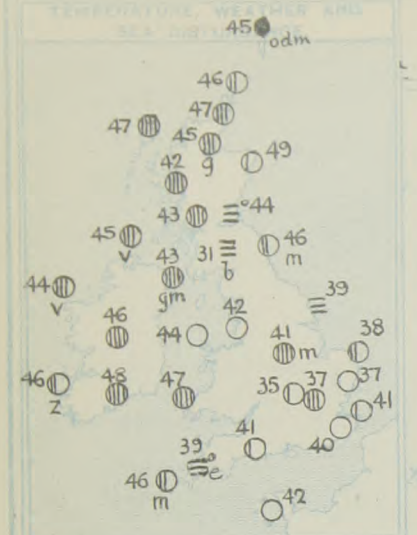
THE MORNING OF TUESDAY, 24TH APRIL, 1917.

GENERAL INFERENCE

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



EXPLANATION.

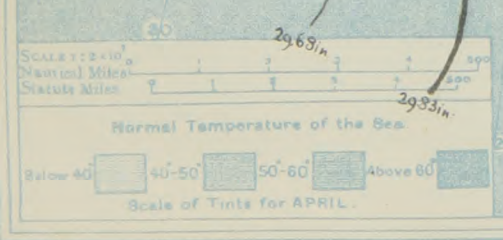
BAROMETER.—Isobars are drawn for intervals of five millibars.

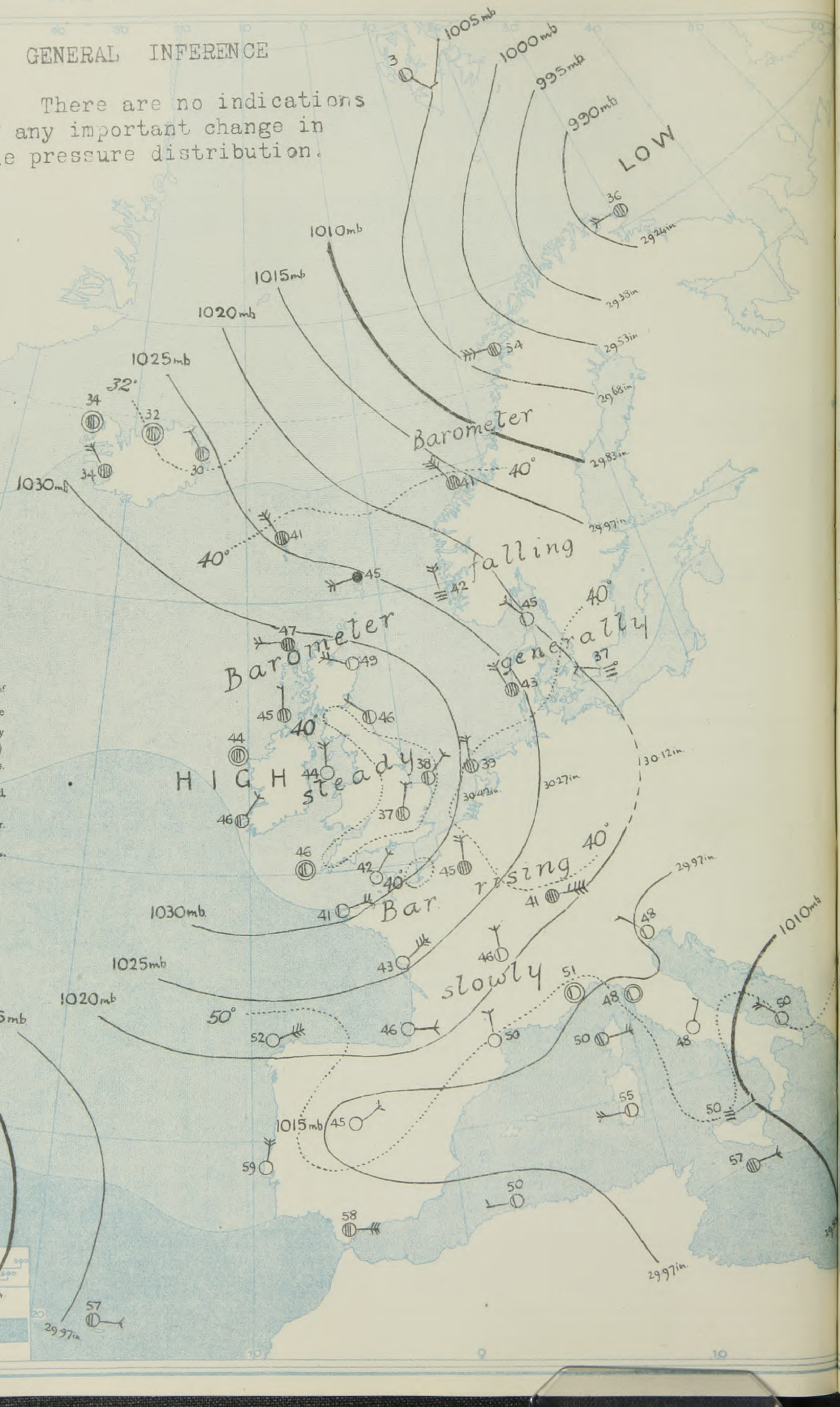
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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.

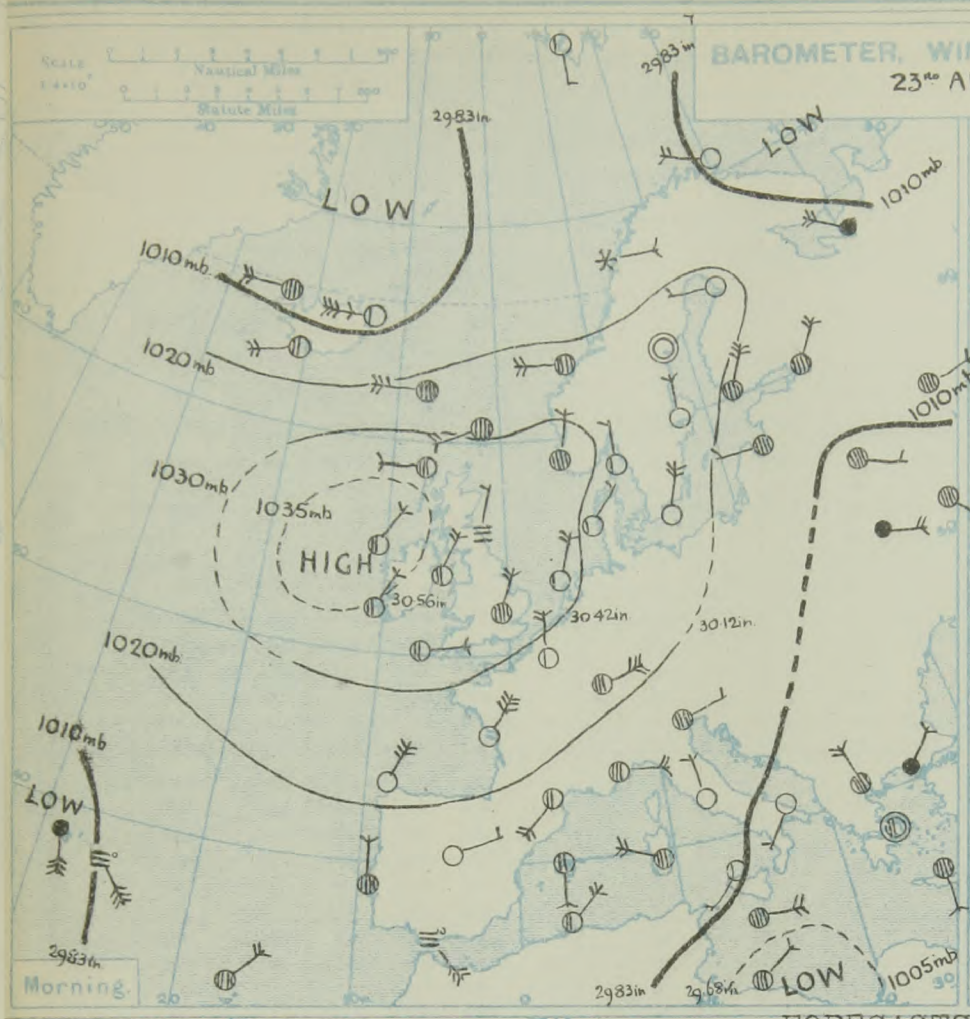
SEA DISTURBANCE.—Rough ~~~. High ≈≈.

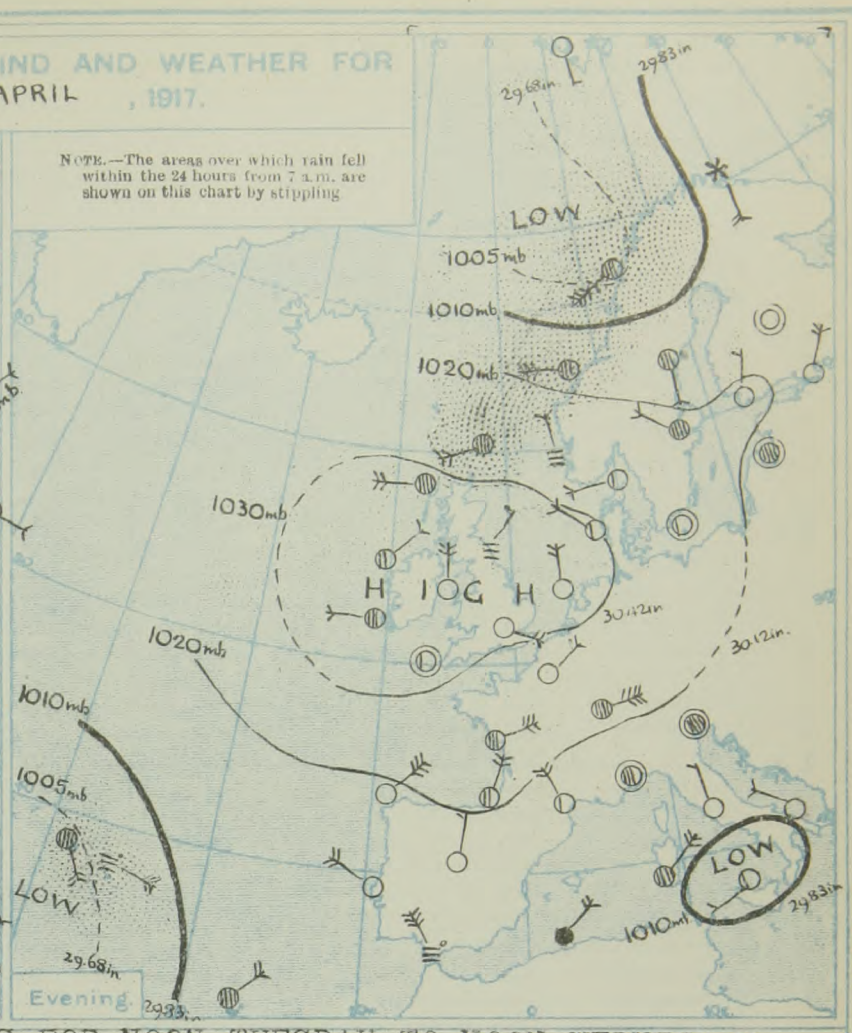




BAROMETER, WIND AND WEATHER FOR 23rd APRIL, 1917.

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





FORECASTS FOR NOON TUESDAY TO NOON WEDNESDAY

0 a, b { Wly. to NWly winds, moderate; cloudy some rain locally. Moderate temperature.

1 { Wly. winds, light; cloudy to fair; moderate temperature.

2 a, b
3
4 a, b, c
5

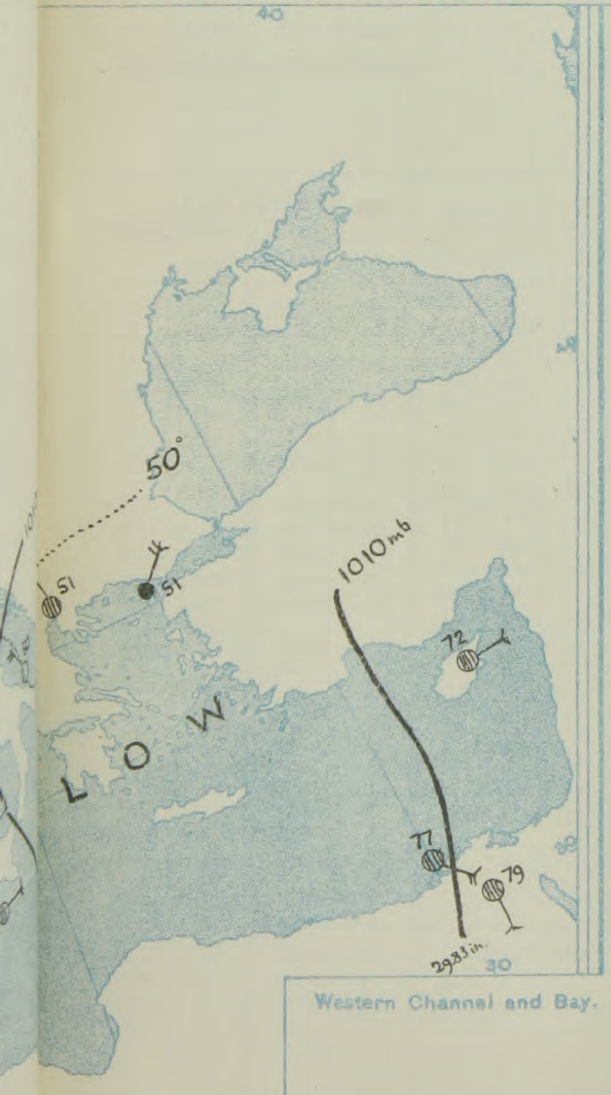
Wind mainly between N. and NE, light; fair or bright; rather cold, dry air

6 a, b Same as No. 1

7 a, b
8 a, b
9 a, b
10 a, b

Light variable winds; fair or bright. Moderate temperature.

11 { NE. winds, light to moderate; sea slight or smooth; fair.



FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 114. {Tuesday 24th April.

	STATIONS.	EVENING OF 23rd: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	MORNING OF 24th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 24th: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 23rd. Hours.
BRITISH ISLANDS.	Lerwick ...	1028·0	46	WSW	4	om	1025·2	−1	45	0	WSW	4	—	omd	3	0·4	48	45	om	om	om	*
	Deerness (Orkney)	1030·8	48	W	4	o	1027·7	*	46	0	W	5	NW	bc	3	—	53	43	c.o	o	o.c.bd	2·9
	Stornoway ...	1032·8	50	W	4	o	1031·5	0	47	0	W	3	—	o	3	—	53	46	c	c.o	o	0·2
	Castlebay (Barra Isd.)																					
	Glasgow ...	1032·1	52	E	2	c	1032·4	+1	43	+3	W	1	—	o	*	—	54	38	c	c.o.c	o.b.om	3·0
	Eskdalemuir ...	1032·4	50	SSW	2	cz	1033·2	0	31	−11	—	0	—	bf	*	Trace	57	28	b.bc.c	c.o.c	c.bz.bm	2·4
	Malin Head ...	1034·0	48	NNE	2	bcr	1034·3	0	45	+2	N	1	N	cr	1	—	52	43	cr	bcr	cr	4·8
	Blacksod Point	1034·4	49	NE	2	bcr	1034·9	0	44	−1	—	0	—	c	1	—	53	40	bcr	bcr	cr	*
	Valencia (Cahirciveen)	1033·5	51	W	2	c	1033·1	0	46	+8	NE	2	W	bcz	2	—	55	38	bc.oz	cz	ox.cx	2·4
	Roche's Point	1033·5	50	SE	1	o	1033·7	*	48	+1	E	1	—	o	1	—	50	46	om.c.bc	bc.c.o	oz	*
	Birr Castle ...	1032·7	56	NNW	1	o	1033·9	*	46	0	N	1	—	o	*	—	58	45	o.c.o	o.c.o	o	2·7
	Donaghadee ...	1032·9	48	N	4	bcz	1033·0	+2	43	0	NW	2	—	ogm	2	—	51	40	bgm	bgz	cgm.om	*
	Liverpool (Bidston)	1032·5	45	W	1	o	1032·8	−1	42	+2	W	1	—	b	1	—	47	41	oc	c.o	o.bx	0·0
	Holyhead ...	1033·0	47	N	4	bz	1032·6	0	44	0	NNW	3	—	b	2	Trace	53	41	bc.c	bc.c.b	bw	8·0
	Pembroke (St. Ann's)	1031·7	52	N	3	b	1032·5	+2	47	0	E	1	—	o	1	—	61	45	b.bc.c	b.bc.b	b.o	8·4
	Scilly (St. Mary's)	1031·6	51	—	0	b	1031·6	0	46	−4	—	0	—	bcm	2	—	56	44	bcm.bm	bm	bm.bcm	11·6
	Falmouth ...	1031·0	47	SSE	2	c	1031·4	+1	39	−8	SSE	2	—	mc	*	—	55	36	b	cwg.c	c.om	7·6
	Jersey (St. Aubin)						1029·8	*	42		NE	2	—	b	2	—	51	39			bwx	12·8
	Portland Bill ...	1031·6	43	—	0	b	1031·5	0	41	−3	ENE	3	—	b	2	—	47	39	bc.c	bc.b	b	*
	Dungeness ...	1029·7	43	NE	4	b	1030·1	−1	40	+1	N	3	—	b	2	—	44	30	bc	bc.b	b.bx	*
	Dover	1031·3	41	NNE	4	b	1031·1	0	41	+1	N	3	N	b	2	—	53	32	o.c.bc.b	b	b	8·2
	Wick	1032·0	49	WNW	3	o	1029·6	−1	47	+1	W	2	—	c	2	—	54	40	og	omg	bc.c	*
	Nairn	1032·2	50	—	0	cg	1031·1	*	45	−2	W	1	—	cg	1	0·1	56	42	c.bc	bc.cg	cd	1·3
	Aberdeen ...	1032·9	47	SSE	1	o	1031·2	0	49	+2	WNW	3	W	b	2	—	55	44	bc.c.o	o	o.bc.b	3·3
	Leith	1032·4	45	E	1	o	1032·1	0	44	+2	SW	1	—	m	1	—	51	39	om.c.o	o.cg.o	o.o.bm	*
	Tynemouth ...	1034·3	41	NE	1	f	1031·5	0	46	+4	NW	1	NW	bcm	3	—	51	39	bcm	bcm	bcm	*
	Spurn Head ...	1033·9	46	ENE	2	b	?	−1	39	−1	NE	1	—	f	2	—	48	37	c	bc	bc	5·0
	Yarmouth (Gorleston)	1032·2	42	NE	3	bc	1031·1	−1	38	−2	NE	2	—	bc	2	—	47	33	bc	bc	bc	7·4
	Clacton-on-Sea	1031·4	42	ENE	3	b	1031·5	0	37	−2	NNW	3	—	b	2	—	48	33	c.bc	bc.b	bx	10·0
	Nottingham ...	1032·7	48	ENE	3	o	1032·6	*	41	−1	SSW	1	—	o	*	—	50	39	o.c	o	o	0·0
	Benson (Oxon.) ...	1030·2	53	NE	2	b	1031·8	+1	35	−4	NE	1	—	b	*	—	55	26	c.	b	b	*
	Sth Farnborough	1029·8	51	NE	2	b	1031·6	0	36	−4	NE	2	—	bc	*	—	55	26	c.bbc	bc.b	bxz.bc	9·2
	London (Kew Obsy.)	1030·9	49	ESE	3	bz	1032·7	+2	39	−3	NNE	2	NE	c	*	—	53	34	o.c.bc.cx	bx	bx.bc.c	7·9
NORTHERN EUROPE.	Spitsbergen ...	1006·9	−6	S	1	b	1007·9	+2	3	+16	SE	1	*	bc	*	*	3	−17				
	Vardö	1013·2	32	S	3	s	987·7	0	36	+6	W	3	—	c	3	*	36	23				
	Bodö	1002·3	41	SW	8	c	1000·6	+2	34	0	W	6	—	c	4	?	41	30				
	Christiansund ...	1018·9	46	W	6	c	1018·1	0	41	−5	NW	6	—	o	5	8	48	37				
	Skudesnaes ..	1029·1	41	NNW	2	f	1023·7	−2	43	+2	NNW	4	—	f	2	—	45	39				
	Færder (X'laniaFjord)	1023·4	39	SSE	2	bc	1018·3	−1	41	+2	WSW	2	—	c	1	—	43	37				
	The Scaw (Skagen)	1025·0	43	WSW	2	b	1020·0	−1	45	+4	NW	2	—	b	2	—	50	37				
	Blaavands Huk	1030·4	43	NW	2	b	1025·3	−2	43	+2	NNW	3	—	o	o	—	45	36				
	Copenhagen ...	1027·0	46	N	3	bc	1020·6	−2	39	−4	NNW	2	—	o	*	—	50	37				
	Bornholm ...	1025·1	39	—	0	b	1019·8	−2	37	0	WNW	2	N	m	0	—	45	34				
FRANCE, &c.	The Helder ...	1031·2	43	N	3	b	1029·9	0	39	+2	N	3	—	c	1	—	45	37				
	C. Gris Nez ...	1030·1	41	NE	4	b	1030·1	+1	43	+4	NE	3	*	b	1	—	50	37				
	La Hève	1030·1	42	NE	4	bc	1029·2	*	36	−1	NE	3	*	b	2	—	46	34				
	Brest (St. Mathieu)	1029·1	48	NE	4	b	1030·4	+1	41	−4	ENE	3	*	b	2	—	51	37				
	Rochefort (Ile d'Aix)	1024·2	52	ENE	5	c	1025·6	+1	43	+2	NE	5	*	b	*	—	63	39				
	Biarritz	1020·6	51	NNE	4	c	1023·1	+2	46		E	2	*	b	2	—	54	39				
	Paris	1026·4	50	NNE	3	b	1027·5	+1	45	+6	N	3	—	o	*	—	55	39				
	Belfort	1025·1	41	E	1	o	1023·9	*	41	+3	E	1	*	o	*	—	48	36				
	Lyons	1019·7	46	NNW	4	o	1020·8	*	46	+8	N	2	*	b	*	—	53	35				
	Nice	1014·7	47	—	0	c	1015·4	+1	51	+5	—	0	*	b	2	—	59	39				
	Perpignan ...	1017·0	54	NW	4	b	1018·9	+2	50	+4	N	2	—	b	*	—	59	32				
	Sanguinaire ...	1013·5	55	SE	3	bc	1013·7	*	50	+1	E	3	*	bc	2	—	57	45				
SOUTHERN STATIONS.	Corunna	1018·1	37	NE	6	b	1022·0	+2	52	−2	ENE	6	—	b	3	—	59	46				
	Madrid	1012·4	64	NNE	1	b	1021·0	+2	45	−5	ENE	2	—	b	*	—	66	37				
	Lisbon	1013·6	72	WNW	4	b	1016·0	+2	59	+4	NNE	4	—	b	2	—	77	57				
	Azores (Horta) ..	1004·8	*	ESE	4	o	1002·0	+1	57	0	ESE	5	*	o	4	15	63	57				
	Madeira	1016·3	64	NE	3	o	1017·0	−2	57	+2	E	2	—	bc	2	—	66	57				
	Gibraltar	1013·9	58	NW	6	m	1015·9	*	58	+2	E	6	*	c	4	—	73	56				
	Malta	*	*	*	*	*	1011·0	+3	57	−2	E	2	—	c	2	—	61	54				
	Limassol	*	*	*	*	*	1012·2	0	72	+8	E	2	W	o	5	—	72	55				
	Alexandria ...	1008·8	75	ESE	3	o	1007·7	0	77	+14	SE	3	—	o	1	—	84	61				
	Cairo (Helwan) ...	1010·7	79	SE	2	b	1010·4	+2	79	+13	S	2	—	o	*	—	91	73				

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. 23rd %	Humidity. 9 h. 24th %	Sunshine for 23rd Hours.	24 Hours ended 9 h. 24th April. Temperature. Max. °F.	Temp. Min. °F.	Temp. Min. on Grass. °F.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	65	75	9·7	53	32	−21	—	c. b	b.o.c	c
CITY (Bunhill Row)	*	*	8·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	49	66	8·5	55	36	35	—	b	b	b
CAMDEN SQ. (British Rainfall) ..	49	71	9·3	54	32	28	—	bc.b	b	*
HAMPSTEAD (Reservoir)	*									
S. KENSINGTON (Museum Grounds)	*		9·5	53	35	27	—	o.bc	bc.b	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 23rd

Total. Joules.	Average Rate. Milliwatts.	Max. Rate. Milliwatts.
1561	30·4	71

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

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

Issue No. 20,243. DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. Wednesday, 25th APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Tuesday, 24th APRIL, 1917.

Temperature rose to 60° in some English localities, but remained below 50° on several parts of the coast. Much bright sunshine was recorded in England and at Valencia.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Tuesday, 24th APRIL... UP TO 17 H.

	STATIONS.	Sunshine for 23rd	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 24th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	5·1	–	–	52	37	o.c	c.o	0 6
	Banff	3·3	–	Trace	54	45	o.c	c.or	1·2
	Montrose	0·3	–	–	55	39	o	o	2·7
	St. Andrews								
Eng. N.E.	Harrogate	1·4	–	–	58	38	cd.b	bc.c.o	4·8
	Skegness	7·7	–	–	48	36	o	o	3·2
Eng. N.W.	Morecambe								
	Southport	6·4	–	–	61	37	of.b	b	9·0
Midlands.	Leamington Spa								
	Malvern	*	–	–	60	36	b	bz	10·0
	Ross-on-Wye	4·4	–	–	61	38	b	bc	10·0
Wales.	Rhyl	5·0	–	–	48	37	bc	bc.b	11·3
	Colwyn Bay	*	*	*	53	39	bc	b	10·8
	Llandudno	*	*	*	53	36	b	b	11·0
	Aberystwyth	*	*	*	60	41	c.b	bce	10·0

	STATIONS.	Sunshine for 23rd	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 24th
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	8·1	–	–	45	33	c.bc.c	c.o.c	2·9
	Felixstowe	10·2	–	–	48	29	br.bc	bc	9·5
	Walton-on-Naze	9·8	Trace	–	47	31	b	c.bc.b	10·0
	Southend-on-Sea	10·1	–	–	52	32	b	b	11·0
England, S.E.	Margate	7·3	–	–	45	39	b	b	10·5
	Hastings	12·8	–	–	53	34	b	b	11·0
	Eastbourne	9·8	–	–	51	34	b	b	11·6
	Seaford	10·5	–	–	56	33	b	b	11·9
	Brighton	11·1	–	–	52	33	bc	b	11·4
	Worthing	11·0	–	–	53	33	b	b	11·5
	Littlehampton								
	Bognor								
	Bournemouth	9·4	–	–	56	31	b	b	12·0
England, S.W.	Weymouth	*	*	*	54	33	bz	bz	10·9
	Torquay	8·2	–	–	51	38	b	b	11·4
	Paignton								
	Penzance	11·1	–	–	57	40	b.bc	b	6·7
	Newquay	8·9	–	–	50	35	b	b	8·4
	Bude	6·6	–	–	57	38	b	b	9·8
	Ilfracombe	2·2	–	–	54	42	bz	bz	10·4
	Weston-s-Mare	7·0	–	–	57	38	b	b	11·0

REPORTS FROM FOREIGN STATIONS FOR Tuesday, 24th APRIL.....

	STATIONS.	Evening of 23rd: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 24th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					F	°F
Russia 7 a.m. and 0 p.m. Local Time.	Archangel						1012·8		34	0	SE	3	bc	–	*	27
	Gorki	1008·8	59	–	0	0	1012·4	x	45	0	E	2	o	–	*	43
	Velieki Luki						1013·9	*	46	0	SSW	1	o	–	*	43
	Hangö	1021·1	39	–	0	b	1019·5	–2	32	–4	–	0	c	–	*	27
	Riga	1018·0	39	–	0	c	1017·1	0	41	–5	–	0	f	–	*	36
	Petrograd	1019·0	39	NE	3	b	1016·7	–1	39	–4	ENE	2	bc	–	45	34
	Moscow	1013·2	50	WNW	2	o	1011·0	–2	48	+3	N	2	o	–	*	43
	Kiev														*	
	Kharkov						1013·1	0	41	–7	–	0	b	–	*	41
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							x							*	
	Odessa														*	
	Tarkhankout						1013·0	*	50	–	S	4	b	–	*	48
	Soukhoum														*	
Mediterranean.	Venice	1014·1	52	–	0	0	1013·9	*	48	0	NW	1	b	–	55	46
	Pesaro	1015·5	50	NNE	3	0	1015·0	*	48	–4	NE	4	o	–	55	45
	Rome	1012·9	50	N	1	b	1013·0	*	48	0	NE	1	b	Trace	59	39
	Viesti	1012·9	52	NW	4	b	1011·4	*	52	0	W	2	b	–	57	46
	Brindisi	1010·3	54	NW	2	b	1008·9	*	50	+5	NW	3	b	–	57	45
	Cagliari	1011·0	59	NE	4	o	1011·1	*	55	0	W	3	b	2	66	52
	Palermo	1009·9	55	WSW	1	b	1011·4	*	50	–2	ENE	1	f	–	61	41
	Tripoli						1010·6	*	61	+2	NNW	1	bc	–	70	55
	Algiers	1015·1	50	NE	3	p	1016·7	+2	50	–7	W	1	b	6	61	46
Sweden.	Hernösand	1019·5	43	S	2	c	1012·3	*	48	+8	NW	2	bc	*	*	*
	Stockholm	1022·9	45	NW	2	o	1018·4	*	43	+6	SSW	2	bc	*	*	*
	Wisby	1021·3	36	N	2	b	1016·6	*	37	+1	W	2	b	*	*	*

Iceland.	Morning of 24th: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1028·4	34	+2	–	0	c
Reykjavik	1028·7	34	–2	NW	3	o
Vestmanna						
Seydisfjord	1025·3	30	–7	NW	2	c
Thorshavn	1023·9	41	–5	NW	4	o

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

25th and 26th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.37 4.35	11.51 11.51	7.4 7.6
Greenwich	4.47 4.45	11.58 11.58	7.9 7.11
Wick	4.38 4.35	12.10 12.10	7.42 7.45
Valencia	5.27 5.25	12.39 12.39	7.52 7.54

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.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

THE MORNING OF WEDNESDAY, 25TH APRIL, 1917.

GENERAL INFERENCE

The anticyclone appears to be moving slowly south-eastward, and quiet weather is likely to continue.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Barometer rising generally

HIGH

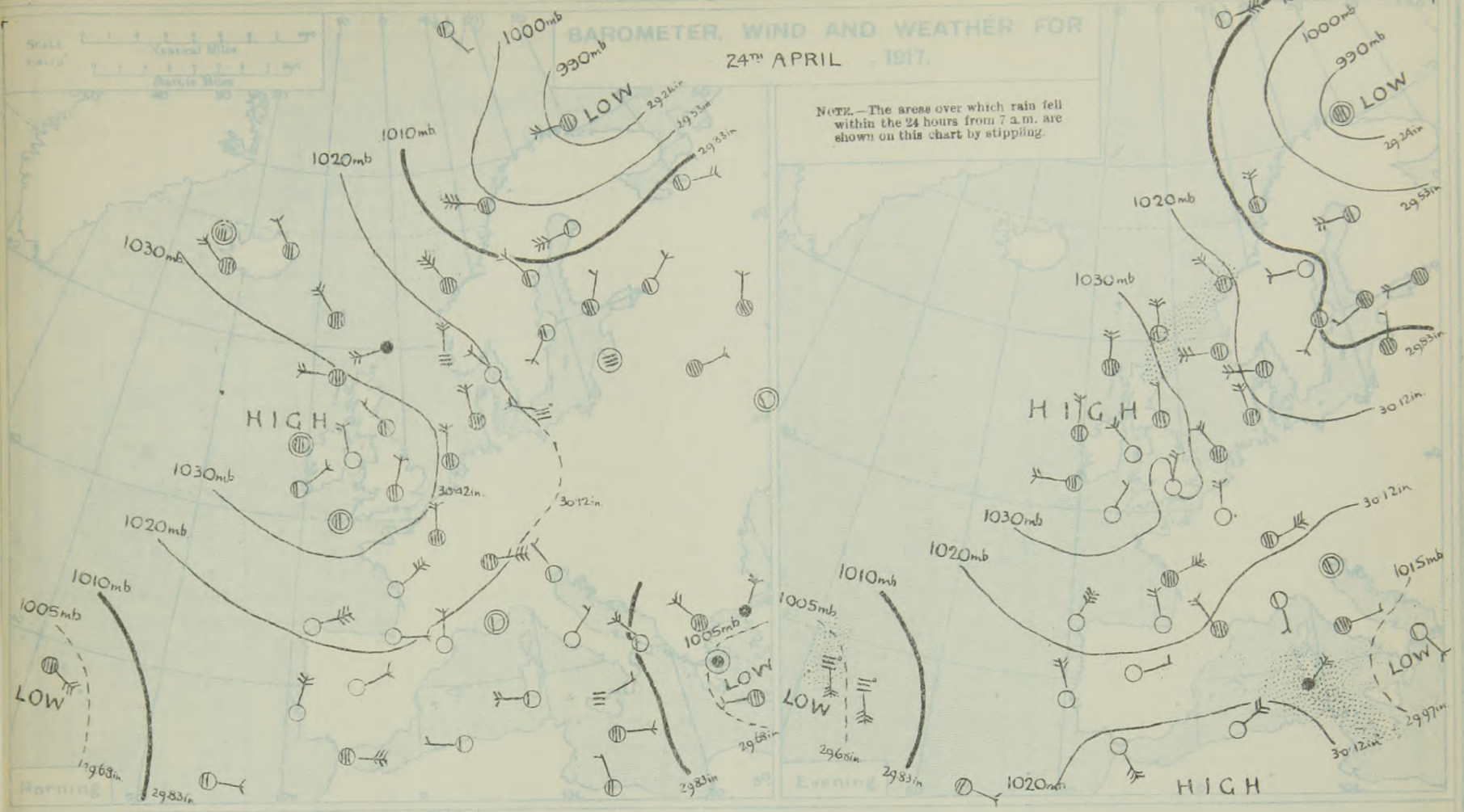
LOW

LOW

1035mb 1030mb 1025mb 1020mb 1015mb 1010mb 1005mb

29·68in 29·83in 29·97in 30·12in

BAROMETER, WIND AND WEATHER FOR 24TH APRIL 1917.



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

FORECASTS FOR NOON WEDNESDAY TO NOON THURSDAY

0 { a, b, 1 } Wind N. to NW. or W, light or moderate; fair; moderate temperature

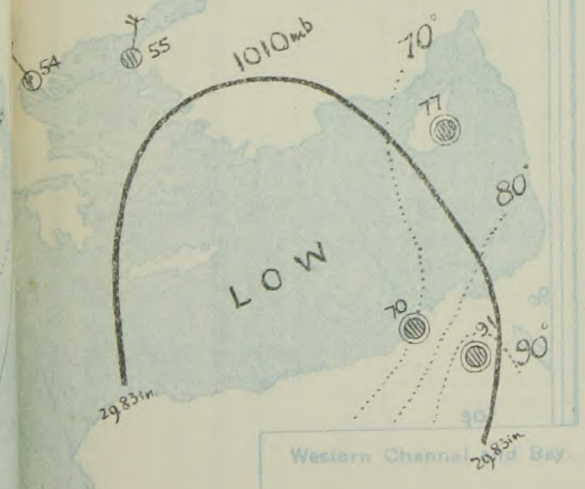
2 { a, b, 3, 4 { a, b, c, 5 } } N. or NE. light or moderate; fair generally, dull at times; cool to milder temperature.

6 { a, b } Light winds between NW and NE; fair; milder.

7 { a, b, 8 { a, b } } Same as 2-5

9 { a, b, 10 { a, b } } N. winds, light; fair; milder.

NE. moderate or light; sea slight; fair.



Western Channel and Bay. 11

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 115. {Wednesday 25th April}

	STATIONS.	EVENING OF 24th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 25th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 25th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 24h. Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1028·9	42	N	4	bc	1034·0	0	37	−8	N	2	—	bc	2	1	47	35	ovc	bc	bc	*
	Deerness (Orkney)	1030·5	44	NW	5	c	1035·9	*	42	−4	N	3	N	bc	2	—	51	36	bc.c.o	om.c	c.bc	3·3
	Stornoway ...	1033·8	47	N	4	o	1037·3	+1	42	−5	W	1	—	oz	1	—	55	38	o.c	c.odp	oz	1·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1032·2	52	N	2	c	1036·2	+3	43	0	ENE	2	—	o	*	—	59	41	o.c.bc	c	c.o.bc.o	6·0
	Eskdalemuir ...	1031·4	51	NE	1	oz	1036·2	+3	43	+12	NE	4	—	o	*	—	50	30	bf.bmc	cz.oz	oz.c.o	2·4
	Malin Head ...	1035·7	49	NNW	3	bc	1036·9	+4	44	−1	NNE	1	—	bc	1	—	50	44	c	c	om	1·0
	Blacksod Point	1036·1	49	N	3	cv	1037·7	0	47	+3	N	1	—	bcm	2	—	52	43	cv	cv	cv.om	*
	Valencia (Cahirciveen)	1034·3	52	W	2	bc	1037·0	+2	44	−2	—	0	NE	o	2	—	55	40	bc.bv	b.bc.cz	bz	9·9
	Roche's Point	1034·5	51	SE	1	o	1036·3	*	48	0	NNW	1	—	o	1	Trace	55	45	oz	c.oz	og.oz	*
	Birr Castle ...	1034·6	52	NNW	1	o	1037·0	*	47	+1	N	1	—	c	*	—	55	44	o.c.o	o	og	1·6
	Donaghadee ...	1033·3	49	N	4	bcz	1035·0	+3	44	+1	N	4	N	cgms	3	—	51	43	bcz	bcz	bmc.cm	*
	Liverpool (Bidston)	1032·4	48	W	2	b	1036·3	+4	43	+1	—	0	—	om	1	—	50	41	b	b	bmx	12·2
	Holyhead ...	1034·1	47	NW	3	bz	1033·9	0	44	+2	N	3	—	omq	2	—	52	43	bz	bz	bc.om	13·0
	Pembroke (St Ann's)	1032·6	49	N	4	b	1033·9	+1	43	−4	N	3	—	bc	2	—	61	42	o.c.bc.b	b	b	9·8
	Scilly (St. Mary's)	1032·2	50	NE	1	bm	1033·8	0	47	+1	NE	3	SE	bm	3	—	53	44	cm.omt	bcm.bm	bc.bm	7·3
	Falmouth ...	1031·9	48	SSE	2	bz	1033·1	+2	44	+5	NNW	2	—	b	*	—	52	38	mc.bcz	b	bw	9·1
	Jersey (St. Aubin)	1030·0	49	NE	3	b	1031·7	*	47	+5	N	2	—	og	1	—	52	40	b	b	b.og	3·2
	Portland Bill ...	1031·4	46	WNW	2	b	1031·5	+1	51	+10	NNE	4	NE	o	2	—	52	41	b	b	b.bc.o	*
	Dungeness ...	1029·1	45	E	3	bc	1030·0	0	48	+3	NNW	1	N	bc	1	—	50	38	b	bc	b.bc	*
	Dover	1030·8	45	N	2	c	?	+1	45	+4	N	4	N	o	4	—	54	37	b	b.bc.c	b.o	10·0
	Wick	1031·3	45	NW	3	o	1033·6	+2	40	−7	NW	2	—	c	2	1	55	36	c.omqq	ogq.mp	bcm.c	*
	Nairn	1032·4	48	WNW	2	og	1034·1	*	41	−4	—	0	—	cg	0	0·3	54	37	cq/g	c.od.o	opg	0·6
	Aberdeen ...	1031·3	48	NW	4	o	1036·8	+3	42	−7	NNW	3	NW	b	2	0·4	55	39	bc.c.o	o	op.c.b	2·0
	Leith	1031·1	49	NW	1	c	1036·5	+2	42	−2	E	2	—	o	2	—	56	41	om.c.bc	bc.b.c	c.bc.c.o	*
	Tynemouth ...	1031·4	48	N	1	cm	1035·5	+2	43	−3	NNW	2	N	cm	3	—	51	42	bm	bc.o	cm	*
	Spurn Head ...	1031·4	45	NE	4	sm	1034·2	+1	43	+4	NNE	4	—	c	4	—	52	38	bcm	cm	om	2·8
	Yarmouth (Gorleston)	1029·9	46	NE	1	bc	1031·7	+2	44	+6	NNE	4	—	cq	3	—	49	36	bc	bc	bc.cp	2·4
	Clacton-on-Sea	1030·1	43	E	1	b	1031·8	+2	45	+8	NNW	2	E	o	1	—	49	37	b.bc	bc.b	bc.c.og	11·3
	Nottingham ...	1030·0	56	WNW	3	ogm	1034·3	*	43	+2	NNE	2	N	om	*	—	59	35	o.cm	o	o.c	3·1
	Benson (Oxon.) ...	1029·7	57	NNE	2	bc	1032·9	+3	43	+8	N	1	—	bz	*	—	60	34	b	b	o.b	*
	Sth Farnborough	1029·2	57	NNE	1	bc	1032·2	+3	45	+9	—	0	—	bz	*	—	60	35	b.c.b	b.bc	bc.o.bz	11·1
	London (Kew Obsy.)	1030·0	58	NNE	3	bz	1033·3	+4	46	+9	N	2	N	cm	*	—	59	37	bc.bz	bz	bz.c.om	11·2
NORTHERN EUROPE.	Spitsbergen ...	1012·3	9	E	6	b	1016·3	+1	−8	−11	S	1	*	b	*	*	10	−17				
	Vardö	1009·7	32	—	0	c	1001·6	+7	23	−13	N	2	—	s	3	*	36	28				
	Bodö	1008·6	32	N	4	c	1013·7	+3	28	−6	N	4	N	c	8	—	34	28				
	Christiansund ...	1021·1	36	NW	4	c	1025·6	+3	34	−7	N	5	—	c	4	8	41	28				
	Skudesnaes ...	1021·6	41	W	5	c	1028·6	+3	37	−6	N	5	—	c	2	—	43	34				
	Færder (X'tiania Fjord)	1013·6	46	WNW	2	bc	1022·6	+3	39	−2	NNW	2	—	b	1	—	46	36				
	The Scaw (Skagen)	1015·3	45	W	3	c	1022·4	+6	39	−6	NNE	4	—	b	4	—	52	32				
	Blaavands Huk	1022·1	45	NNW	4	o	1023·1	+3	39	−4	N	6	—	b	3	—	46	37				
	Copenhagen ...	1017·2	50	NW	2	c	1017·1	+5	41	+2	NNE	5	—	bc	*	—	50	39				
	Bornholm ...	1018·9	37	SW	3	m	1014·1	+3	37	0	NNW	3	—	m	1	—	41	34				
FRANCE, &c.	The Helder ...	1028·4	43	NW	3	o	1028·3	+2	43	+4	N	4	—	c	3	Trace	45	39				
	C. Gris Nez ...	1030·3	42	NE	4	c	1030·7	+1	43	0	NE	3	*	o	1	—	48	39				
	La Hève	1029·2	46	NE	2	bc	1029·0	*	44	+8	NNE	2	*	o	1	—	52	43				
	Brest (St. Mathieu)	1030·6	51	NE	3	b	1033·0	+2	47	+6	ENE	1	*	b	1	—	59	39				
	Rochefort (Ile d'Aix)	1025·0	57	ENE	5	b	1028·4	+3	44	+1	ENE	4	*	b	*	—	64	43				
	Biarritz	1024·3	53	NNW	3	b	1025·6	+1	54	+8	WNW	1	*	bc	1	—	57	48				
	Paris	1026·3	54	NNE	3	b	1029·9	+3	43	−2	N	2	—	o	*	—	59	43				
	Belfort	1024·3	46	ENE	5	c	1026·6	*	42	+1	ENE	4	*	o	*	—	53	39				
	Lyons	1019·7	53	N	3	b	1023·3	*	42	−4	NNW	4	*	o	*	—	57	39				
	Nice	1015·0	48	S	1	b	1019·1	+3	47	−4	E	4	*	o	3	—	59	43				
	Perpignan ...	1019·3	55	NW	3	o	1021·0	+2	54	+4	NW	4	—	b	*	—	64	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1022·6	57	NNE	6	b	1025·6	+1	50	−2	SE	1	—	b	1	—	59	41				
	Madrid	1016·8	59	ENE	1	b	1023·4	+2	46	+1	NE	1	—	b	*	—	61	41				
	Lisbon	1017·2	72	NNW	4	b	1020·4	+2	52	−7	N	2	—	o	2	—	72	52				
	Azores (Horta) ...	1004·7	*	SSE	5	m	1007·0	+1	60	+3	E	4	*	o	3	9	64	59				
	Madeira	1017·5	63	E	2	bc	1016·2	−1	55	−2	E	2	—	bc	2	—	64	55				
	Gibraltar	1021·0	57	SE	5	b	1020·6	*	57	−1	E	5	*	b	3	—	62	55				
	Malta	*	*	*	*	*	1015·9	+2	54	−3	W	1	—	bc	1	12	59	50				
	Limassol	*	*	*	*	*	1010·3	+2	71	+5	—	0	—	o	5	—	77	63				
	Alexandria ...	1006·3	91	—	0	o	1009·9	+3	70	−7	—	0	—	o	0	—	102	66				
	Cairo (Helwan) ...	1009·5	93	—	0	o	1009·7	+2	91	+12	—	0	—	o	*	—	102	90				

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. 9 h. 25th	Sunshine for 24th	24 HOURS ENDED 9 h. 25th April: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	71	10·2	59	42	30	—	b	c.o	o.bc
CITY (Bunhill Row)	*	9·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	66	9·5	59	43	41	—	b	b	b
CAMDEN SQ. (British Rainfall) ...	65	10·9	62	42	39	—	b	b	*
HAMPSTEAD (Reservoir)	72	12.1	57	39	31	—	bc	o	bc
S. KENSINGTON (Museum Grounds)	65	10·3	59	35	36	—	bc	b	bc.c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 24th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1544	30	59·5

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

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

Issue No. 20,244. DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. Thursday, 26th APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Wednesday, 25th APRIL, 1917.

Temperature rose to about 60° at some SW stations, but remained low in most other districts. The bright sunshine records varied greatly. At some Western and South-Eastern stations the day was very cloudy.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Wednesday, 25th APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 24h	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 25th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0.6	–	–	56	42	b	b	9.6
	Banff	1.2	1	–	48	39	b. bc	c. o	5.3
	Montrose	2.7	1	–	55	39	b	b	2.6
	St. Andrews	*	–	1	48	40	b	bc. c	3.3
Eng. N.E.	Harrogate	4.8	–	–	47	41	o	o. c. o	0.6
	Skegness	3.2	–	–	47	40	o	bc	7.1
Eng. N.W.	Morecambe	*	–	–	50	45	–	–	0.0
	Southport	10.8	–	–	54	37	o	o. c. o	0.2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	10.1	–	–	56	39	b. bc	bc. b	6.9
Wales.	Rhyl	12.8	–	–	58	36	b. bc	c. bcg	0.7
	Colwyn Bay	*	*	*	56	39	o. c	bc	2.8
	Llandudno	*	*	*	57	38	o	om. m	3.3
	Aberystwyth	*	*	*	50	36	o. c. b	b. bc	10.0
England, E.	Lowestoft	4.2	–	–	46	35	o. c. bc	bc. c. bc	5.4
	Felixstowe	10.6	–	–	50	39	c. bc	bc. c	1.4
	Walton-on-Naze								
	Southend-on-Sea	12.4	–	–	52	41	o	o. c. bc	1.0
England, S.E.	Margate	10.5	–	–	45	40	c	c. bc	2.5
	Hastings	12.2	–	–	50	41	bc. o	bc. b	2.5
	Eastbourne	12.6	–	–	52	42	o. bc	o. bc	2.9
	Seaford	*	–	–	55	39	b	c	4.1
	Brighton	12.6	–	–	55	40	c. o	o. c	4.0
	Worthing	12.5	–	–	56	41	b. bc	c. bc	4.3
	Littlehampton	*	–	–	56	50	–	–	4.5
	Bognor								
	Bournemouth	12.3	–	–	58	42	c	c	5.0
England, S.W.	Weymouth	*	*	*	57	44	bcz	bcz	4.5
	Torquay	13.0	–	–	58	43	o. c. bc. b	b. bc. c. o	4.6
	Paignton								
	Penzance	7.8	–	–	60	42	b	b	11.0
	Newquay	9.0	–	–	49	42	b	b	10.7
	Bude	11.2	–	–	50	34	b	b. of	6.0
	Ilfracombe	12.5	–	–	50	42	bz	bz	8.2
	Weston-s-Mare	12.2	–	–	61	44	c. bc. b	bz	7.0

REPORTS FROM FOREIGN STATIONS FOR Wednesday, 25th APRIL.

	STATIONS.	Evening of 24th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 25th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1001.6	43	SW	3	o	995.8	+4	36	+2	W	3	r	4	*	34
	Gorki						1006.6	0	46	+1	–	0	o	–	*	41
	Velieki Luki						1005.5	*	43	–3	WSW	3	o	–	*	43
	Hangö	1004.7	34	–	0	o	1006.7	–1	32	0	N	3	b	2	*	27
	Riga	1012.6	41	NNE	1	o	1007.1	–2	39	–2	WSW	1	o	–	*	36
	Petrograd	1008.4	41	W	3	o	1003.0	–1	34	–5	W	3	s	–		34
	Moscow	1006.4	36	NNW	1	o	1004.7	–1	48	0	SW	2	o	1	*	32
	Kiev	1009.7	48	–	0	bc	1009.5	0	46	–	NW	3	o	2	*	41
	Kharkov	1011.5	48	–	0	o	1010.6	0	43	+4	SW	1	r	–	*	41
	Kishinev	1008.2	50	NW	3	o	1014.3	+2	43	–	NW	2	o	–	*	41
	Elisabetgrad	1009.9	46	–	0	bc	1010.9	+2	43	–	W	1	f	4	*	41
	Nicolaiev	1011.2	48	SW	2	b	10133	*	46	–	WSW	2	o	–	*	41
	Odessa						1014.9	+2	?46	–	NNW	3	o	–	*	43
	Tarkhankout	1015.0	50	SW	3	b	1017.0	*	50	0	WSW	3	b	–	*	48
	Soukhoum														*	
Mediterranean.	Venice	1016.9	52	–	0	bc	1019.8	*	50	+2	–	0	b	Trace	57	46
	Pesaro	1017.4	45	NE	1	b	1019.8	*	52	+4	NNE	3	bc	–	55	?
	Rome	1015.1	52	E	1	o	1017.1	*	52	+4	N	1	b	–	61	43
	Viesti	1015.7	50	NW	2	bc	1016.5	*	50	–2	W	2	b	–	57	50
	Brindisi	1013.9	52	SE	2	b	1015.4	*	45	–5	NNW	1	b	–	57	45
	Cagliari	1015.0	51	NE	4	r	1016.1	*	57	–2	NNW	3	b	5	64	50
	Palermo						1016.1	*	48	–2	–	0	o	–	?	?
	Tripoli						1014.6	*	57	–4	NW	1	c	–	66	55
	Algiers	1020.6	62	NE	1	b	1022.6	+1	54	+4	ESE	6	m	Trace	89	48
Sweden.	Hernösand	1011.5	41	W	2	?	1012.2	*	34	–14	NW	6	b	*	*	*
	Stockholm	1010.0	48	SW	2	c	1013.9	*	36	–7	N	4	c	*	*	*
	Wisby	1010.4	41	WSW	2	o	1011.8	*	36	–1	N	4	c	*	*	*

ICELAND.	Morning of 25th. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1022.6	34	0	–	0	c
Reykjavik	1024.4	39	+5	E	3	r
Vestmanna						
Seydisfjord	1027.9	29	–3	N	2	S
Thorshavn	1032.7	41	0	–	0	0

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

26th and 27th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.35 4.33	11.51 11.51	7.6 7.8
Greenwich	4.45 4.43	11.58 11.58	7.11 7.13
Wick	4.35 4.32	12.10 12.10	7.45 7.48
Valencia	5.25 5.22	12.39 12.39	7.54 7.56

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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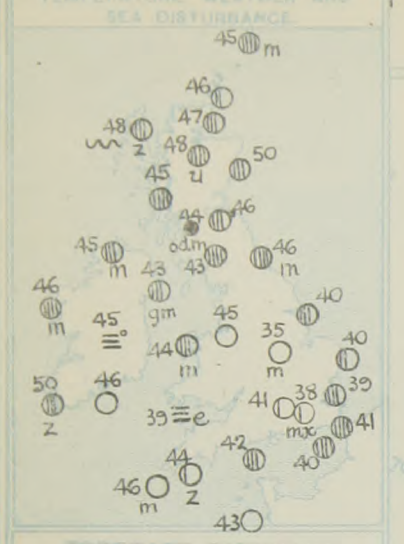
‡ The barometric change is expressed in half-millibars.

THE MORNING OF THURSDAY, 26TH APRIL, 1917.

GENERAL INFERENCE

The anticyclone seems likely to maintain its influence over the more southern parts of these Islands, but the depression in the Arctic regions will affect the conditions in our northern districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

EXPLANATION.

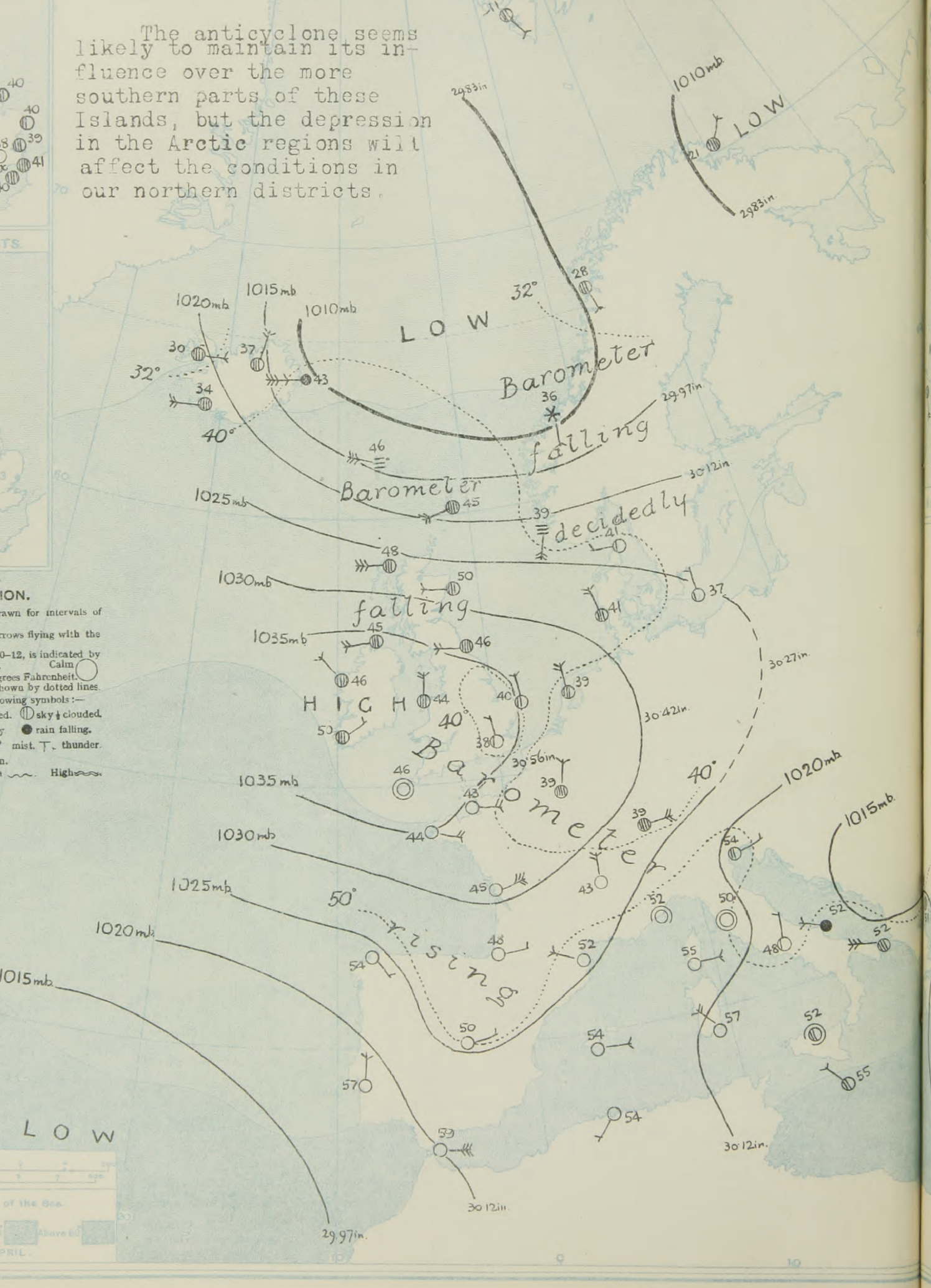
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

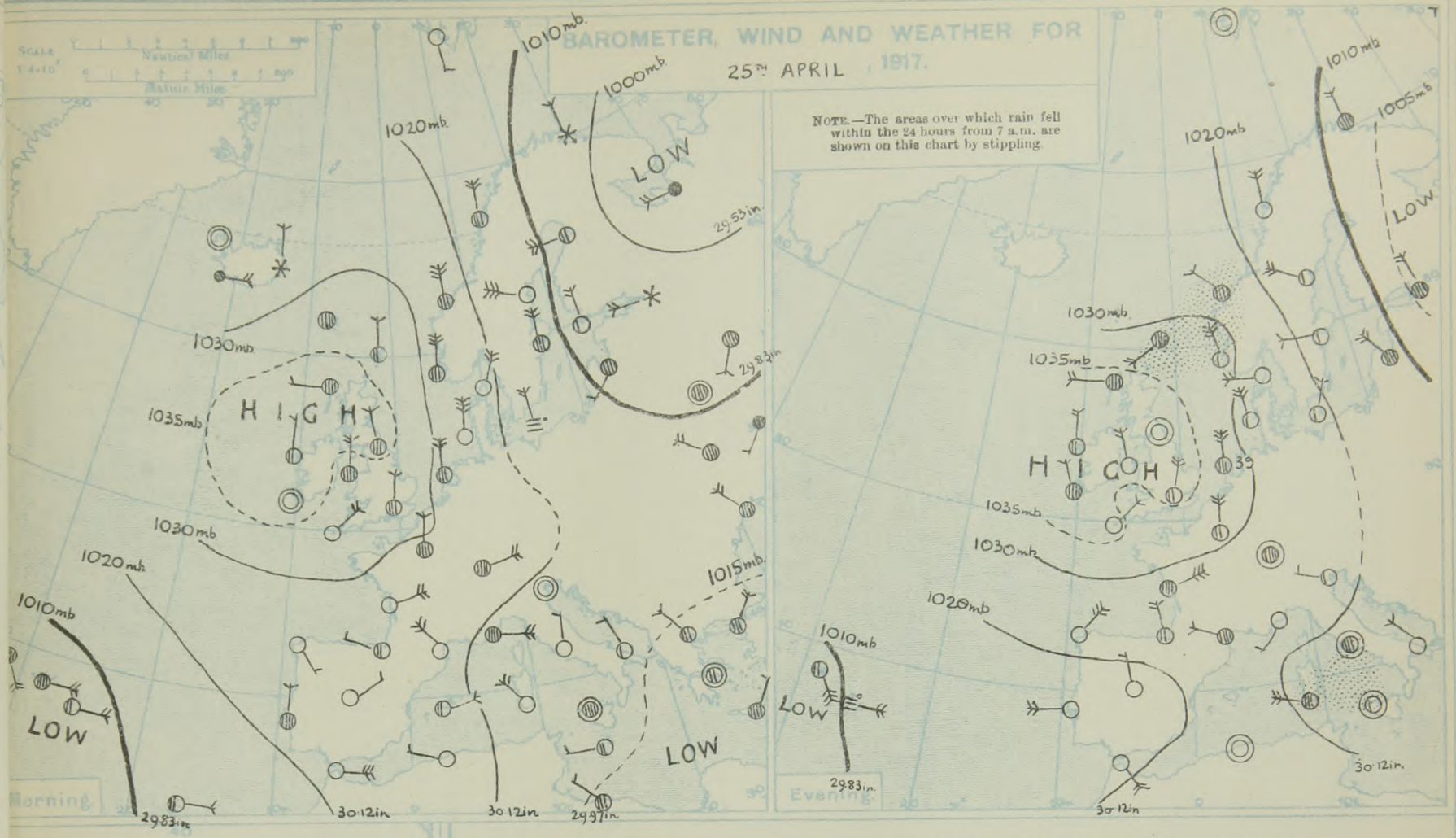
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



BAROMETER, WIND AND WEATHER FOR 25TH APRIL 1917.



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

FORECASTS FOR NOON THURSDAY TO NOON FRIDAY

0 } W. to NW. winds, moderate to fresh or strong; variable sky, some rain. Rather cold.

2 { a, b } NW. to W. winds, increasing; cloudy. Moderate temperature.

3 } N. to NW. winds, light to moderate. Fair. Temperature rising.

4 { a, b, c } Same as No. 2

5 Same as No. 3.

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

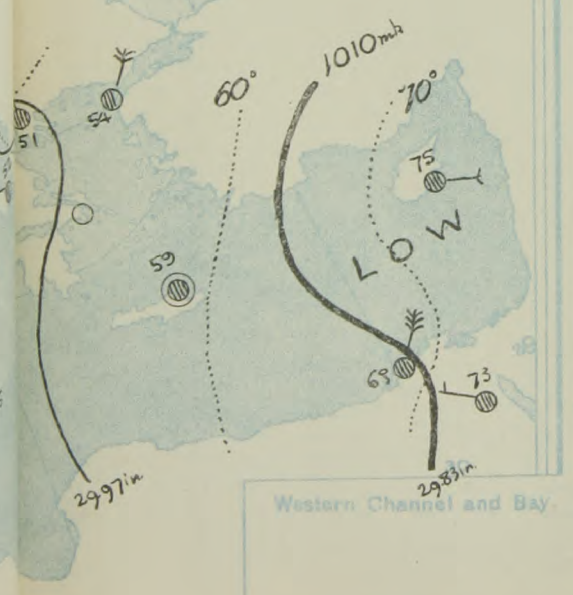
7 { a, b } Variable winds between NW. and NE. light; fair. Warmer.

8 { a, b }

9 { a, b } Same as Nos. 0 and 1

10 { a, b } W. or variable winds, light; fair Warmer.

11 } N. and NE. winds, light or moderate; sea slight or moderate; fair.



Western Channel and Bay

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 116 [Thursday. 26th April

	STATIONS	EVENING OF 25th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 26th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 26th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 25th.
			°F						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·6	41	SW	3	om	1018·7	−4	45	+8	WSW	4	—	om	3	3	45	38	bc	bc.om	om	*
	Deerness (Orkney)	1032·5	43	SW	4	om	1023·7	*	46	+4	W	5	NW	bc	4	Trace	47	42	bc.c.o	om	o.c.bc	0·7
	Stornoway ...	1035·8	49	W	3	o	1028·8	−2	48	+6	W	6	—	cx	5	—	53	42	o.cx	c.o	o.cx	2·7
	Castlebay (Barra Isd.)																					
	Glasgow ...	1036·6	49	—	0	ox	1033·3	−2	44	+1	WSW	3	—	omd	*	Trace	51	40	o.cx	c.ox	cx.omd	1·1
	Eskdalemuir ...	1037·2	44	SE	2	o	1034·0	−1	43	0	WNW	4	—	o	*	—	46	36	o	o	o	0·0
	Malin Head ...	1039·2	49	N	1	b	1035·2	−2	45	+1	WSW	3	NW	cm	2	—	50	43	bm	b	om	11·2
	Blacksod Point	1038·6	51	N	3	bc	1037·7	−3	46	−1	NW	2	—	om	0	—	55	43	c	bc	bx	*
	Valencia (Cahirciveen)	1037·2	52	NNW	2	o	1037·1	+1	50	+6	NE	1	NE	cx	2	—	55	44	o.cx	cx.o	o.c	1·0
	Roche's Point	1035·6	56	NW	1	bc	1036·7	*	46	−2	NNW	1	—	b	1	Trace	58	42	og	o.bcx	o.bx	*
	Birr Castle ...	1036·5	55	N	1	o	1038·9	*	45	−2	N	1	—	m	*	—	56	40	c.o	o	cx	1·3
	Donaghadee ...	1036·7	50	N	1	bcm	1035·2	+1	43	+1	SW	3	W	cgm	2	—	50	39	bcm	bcm	bcm.cm	*
	Liverpool (Bidston)	1036·0	51	E	1	m	1035·4	0	45	+2	SE	2	—	b	1	—	52	40	om	cm	cm.b	0·1
	Holyhead ...	1035·8	46	NNW	3	bm	1035·8	0	44	0	N	3	NE	cm	2	—	55	42	o.c.bc	bm	bm.cm	6·0
	Pembroke (St. Ann's)	1034·7	52	NW	1	b	1036·2	+1	39	−4	S	1	—	fe	1	Trace	58	37	b	b	bfe	12·5
	Scilly (St. Mary's)	1035·6	49	NE	2	bm	1035·6	+1	46	−1	—	0	—	bm	3	0·1	52	40	bm	bm	bm.fem	12·3
	Falmouth ...	1035·0	52	SSE	1	bx	1035·4	+1	44	0	NNE	1	—	bx	*	—	60	38	b	b	bxw	12·1
	Jersey (St. Aubin)	1033·4	53	ENE	4	b	1034·9	*	43	−4	E	3	—	b	3	—	59	39	ogm	b	b	8·0
	Portland Bill ...	1034·4	48	NE	1	c	1035·4	0	42	−9	NNE	1	—	c	2	—	53	40	bc.c	bc.c	bc.c	*
	Dungeness ...	1033·6	43	NE	4	bc	1035·1	+1	40	−3	NE	4	—	o	3	—	49	39	bc	bc	bc.b.c	*
	Dover						1035·2		41	−4	NNW	3	N	o	2	—	50	36			c.o	3·7
	Wick	1033·9	44	W	2	o	1026·4	−5	47	+7	WNW	4	—	c	3	0·3	47	39	c.om	ompq	o.cmq	*
	Nairn	1035·2	50	W	1	cg	1028·3	*	48	+7	W	2	—	ou	1	—	54	40	c.bc	bc.c	cq	2·1
	Aberdeen ...	1036·0	43	SSW	3	c	1028·9	−2	50	+8	W	2	NW	c	2	—	50	41	bc.c	c.o.c	c.o.c	6·3
	Leith	1036·3	49	E	1	b	1032·5	−1	46	+4	W	1	W	c	2	—	49	41	o.c.bc	b.bcx.b	bx.ogc	*
	Tynemouth ...	1037·5	43	—	0	b	1032·6	−1	46	+3	W	3	—	om	3	—	48	39	bc	bc	om	*
	Spurn Head ...	1037·9	45	NNE	3	bc	1035·2	−1	40	−3	WSW	2		c	3	Trace	48	37	bcq	bcp.	b	6·1
	Yarmouth (Gorleston)	1035·9	43	NE	4	bc	1034·9	−1	40	−4	NNW	2	—	bc	2	—	47	37	cq.bc	cq.bcx	bc	7·0
	Clacton-on-Sea	1035·2	44	NE	3	o	1035·5	0	39	−6	NW	2	NE	c	1	—	50	37	og	o.c.o	o.c.o.c	0·8
	Nottingham ...	1036·4	46	ENE	3	c	1035·4	*	39	−4	WSW	1	—	bm	*	—	50	35	oc	c	c.o	1·1
	Benson (Oxon.) ...	1035·5	49	NE	1	b	1035·3	o	41	−2	—	0	—	b	*	—	53	36	o.	bc	b.o	*
	Sth Farnborough	1034·6	49	NE	3	c	1036·8	+1	37	−8	N	1	—	b	*	—	54	28	b.o	o.c	c.o.bx	3·1
	London (Kew Obsy.)	1035·4	49	NNE	4	bc	1036·4	+2	38	−8	NNW	1	—	bmx	*	—	52	32	cm.o	o.bc	bc.bmx	4·4
NORTHERN EUROPE.	Spitsbergen ...	1014·4	−2	—	0	b	1012·3	−1	−11	−3	SSE	2	*	c	*	*	5	−26				
	Vardö	1009·1	21	N	3	b	1009·4	0	21	−2	NE	2	—	o	3	*	23	21				
	Bodö	1019·4	28	N	4	b	1016·3	−5	28	0	SSE	2	—	c	2	?	32	23				
	Christiansund ...	1026·6	34	NW	2	o	1009·3	−18	36	+2	S	2	—	s	4	7	36	28				
	Skudesnaes ..	1030·7	36	NNW	5	b	1021·2	−8	39	+2	SSW	4	—	f	5	2	41	32				
	Færder (X'laniaFjord)	1025·5	39	N	2	bc	1022·3	−6	37	−2	SE	3	—	c	1	—	43	34				
	The Scaw (Skagen)	1025·0	41	W	3	b	1024·6	−2	41	+2	W	1	—	b	1	—	45	37				
	Blaavands Huk	1028·7	41	NNW	4	b	1029·2	+1	41	+2	NNW	3	—	c	?	—	45	36				
	Copenhagen ...	1024·8	43	N	3	b	1025·9	0	41	0	WNW	2	—	b	*	—	46	36				
	Bornholm ...	1021·9	39	NNE	2	b	1025·1	+1	37	0	N	1	—	b	0	—	43	32				
FRANCE, &c.	The Helder ...	1032·6	39	N	5	c	1033·2	0	39	−4	NNW	3	—	c	2	—	43	39				
	C. Gris Nez ...	1033·5	42	NE	5	bc	1034·6	+1	40	−3	NE	3	*	o	2	—	50	37				
	La Hève	1029·0	50	NE	3	b	1033·4	*	37	−7	NE	3	*	c	2	—	54	36				
	Brest (St. Mathieu)	1033·5	52	NNE	3	m	1035·4	+1	44	−3	ESE	3	*	b	2	—	61	41				
	Rochefort (Ile d'Aix)	1028·7	57	ENE	6	o	1030·6	+1	45	+1	ENE	5	*	b	*	—	66	43				
	Biarritz	1025·9	56	NNW	3	bc	1027·4	+5	48	−6	E	1	*	b	1	—	59	43				
	Paris	1031·0	48	NNE	3	o	1032·8	+1	39	−4	NNE	2	—	o	*	—	57	36				
	Belfort	1028·0	46	—	0	o	1029·7	*	39	−3	E	4	*	o	*	—	51	36				
	Lyons	1025·2	50	N	4	b	1026·3	*	43	+1	N	3	*	b	*	—	57	40				
	Nice	1021·6	48	SW	1	b	1022·4	+2	52	+5	—	0	*	b	2	Trace	57	39				
	Perpignan ...	1024·3	48	WNW	2	o	1025·1	0	52	−2	NW	2	—	b	*	—	66	32				
	Sanguinaire ...	1019·7	64	W	2	bc	1021·3	*	55		E	2	*	b	2	—	64	48				
SOUTHERN STATIONS.	Corunna	1023·9	61	NE	5	b	1024·8	+2	54	+4	ESE	1	—	b	1	—	63	45				
	Madrid	1018·6	66	NNW	1	b	1026·3	+2	50	+4	ENE	1	—	b	*	—	68	46				
	Lisbon	1017·5	68	NW	4	b	1018·9	+1	54	+5	N	2	—	b	2	—	73	55				
	Azores (Horta) ...	1009·5	*	SSE	6	bc	1011·9	0	60	0	ENE	5	*	c	2	—	64	59				
	Madeira																					
	Gibraltar	1019·6	57	SE	4	b	1020·8	*	54	+2	E	6	*	b	4	—	64	54				
	Malta	*	*	*	*	*	1018·9	+2	56	+1	NW	2	—	bc	2	—	59	52				
	Limassol	*	*	*	*	*	1007·9	−1	45	−2	ESE	2	—	o	4	—	82	59				
	Alexandria ...	1010·3	68	NNE	5	o	1010·3	+2	68	−2	NE	6	—	o	4	—	84	66				
	Cairo (Helwan) ...	1008·4	93	NE	2	o	1007·8	+1	73	−18	NW	1	—	o	*	—	111	68				

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. 25th	Humidity. 9 h. 26th	Sunshine for 25th	24 Hours ended 9 h. 26th April: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	64	68	3·9	55	30	21	—	o	o.c	c.b.bc
CITY (Bunhill Row)	*	*	3·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	57	65	4·2	54	36	35	—	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	51	62	5·0	67	32	27	—	o	o.bc	*
HAMPSTEAD (Reservoir)	*	64	5·4	51	32	20	—	c.bc	bcx	bcx
S. KENSINGTON (Museum Grounds)	*	61	2·9	55	35	25	—	bc	bc	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 25th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1051	20·3	63·5

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

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

Issue No. 20,245. DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. Friday, 27th APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Thursday, 26th APRIL, 1917.

Temperature rose to above 55° in various parts of the United Kingdom, but remained below 50° over an extensive area. Slight rain fell in the extreme North, but generally the weather was fair and dry, with good records of sunshine in many English and Irish localities.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Thursday, 26th APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 25th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 26th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	10·4	–	–	49	44	c	o	0·2
	Banff	5·3	1	Trace	55	46	c·o	or·o	2·2
	Montrose	2·6	–	–	57	41	b	b	0·8
	St. Andrews								
Eng. N.E.	Harrogate	0·6	–	–	57	33	c.bc.c	c.o.c	2·7
	Skegness	8·1	–	–	53	31	bc	o	3·5
Eng. N.W.	Morecambe	0·0	–	–	49	38	–	–	2·8
	Southport	0·2	–	–	51	37	o.c	c.o.c.o	2·7
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	7·8	–	–	57	41	bcm	o	0·6
Wales.	Rhyl	0·7	–	–	49	42	o.c	c.bc.c	6·3
	Colwyn Bay	*	*	*	54	43	c.bc	bc	6·0
	Llandudno	*	*	*	51	42	c	c.b	5·9
	Aberystwyth	*	*	*	51	43	o.c	bc.c	5·0

	STATIONS.	Sunshine for 25th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 26th
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	5·9	–	–	48	34	bc.c	c.o.c	8·2
	Felixstowe	1·4	–	–	47	37	bc.b	b.bc	6·5
	Walton-on-Naze	*	–	–	44	37	bc.b	b.bc	8·8
	Southend-on-Sea	1·2	–	–	52	33	bc	b	7·6
England. S.E.	Margate	2·5	–	–	48	39	c.b	b	5·6
	Hastings	3·4	–	–	46	34	o.c	bc.b	5·6
	Eastbourne	3·2	–	–	47	34	o.bc.b	b	6·5
	Seaford	4·1	–	–	50	30	b	b	11·1
	Brighton	4·0	–	–	47	33	bc	b	11·0
	Worthing	4·7	–	–	48	32	b	b	11·5
	Littlehampton	*	–	–	?[illegible]	34	–	–	12·5
	Bognor	*	–	–	47	33	b	b	13·0
	Bournemouth	5·0	–	–	53	39	o.b	b	6·5
England. S.W.	Weymouth	*	*	*	53	40	ox.c	bx	4·0
	Torquay	4·6	–	–	53	45	o.c	c.bc	1·7
	Paignton	*	–	–	54	44	bc.o	o.bc	2·9
	Penzance	11·2	–	–	56	39	b.bc	bc	9·0
	Newquay	11·6	–	–	52	35	b.bc	b.bc	4·0
	Bude								
	Ilfracombe	8·2	–	–	50	40	x	dx	2·4
	Weston-s-Mare								

REPORTS FROM FOREIGN STATIONS FOR Thursday, 26th APRIL.

	STATIONS.	Evening of 26th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 26th. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	996·4	39	NNW	3	o	1001·0	+3	19	-17	NE	2	s	–	*	19
	Gorki	1002·1	45	–	0	o	1005·6	+4	30	-16	NW	4	s	–	*	30
	Velieki Luki						1005·2	*	32	-11	W	4	o	2	*	30
	Hangö						1013·7	-1	28	-4	WNW	3	b	–	*	25
	Riga	1011·8	32	NNW	4	o	1015·1	+1	34	-5	NNW	3	b	–	*	30
	Petrograd	1003·3	36	NNW	3	o	1004·2	+1	30	-4	NW	4	o	–	43	28
	Moscow	1000·8	46	WSW	1	o	997·9	-1	43	-5	SW	3	bc	4	*	39
	Kiev	1011·1	46	WNW	4	b	1013·2	+3	37	-9	N	4	o	2	*	37
	Kharkov	1010·1	48	WSW	2	c	1010·3	0	46	+3	WSW	3	o	–	*	?45
	Kishinev														*	
	Elisabetgrad	1013·6	48	WSW	3	o	1013·3	0	46	+3	W	4	o	1	*	43
	Nicolaiev	1015·7	50	–	0	b	1015·4	*	46	0	–	0	b	2	*	41
	Odessa	1016·8	48	WSW	3	b	1016·3	+1	46	0	NNW	2	b	–	*	45
	Tarkhankout						1018·3	*	52	+2	W	3	b	–	*	48
	Soukhoum														*	
Mediterranean.	Venice	1020·6	?55	WNW	1	b	1017·0	*	54	+4	ENE	1	bc	–	59	48
	Pesaro						1022·3	*	50	-2	NW	2	b	–	57	37
	Rome	1019·8	52	–	0	c	1019·9	*	48	-4	N	1	b	1	59	41
	Viesti	1018·3	52	NW	2	b	1019·1	*	52	+2	WNW	2	p	–	67	50
	Brindisi	1017·9	54	NW	2	b	1018·4	*	52	+1	NW	5	c	–	57	46
	Cagliari	1019·0	59	WNW	4	c	1019·1	*	57	0	NW	3	b	5	66	50
	Palermo	1018·5	50	–	0	b	1018·1	*	52	+4	–	0	bc	3	61	43
	Tripoli						1022·1	*	55	-2	SW	1	b	–	64	45
	Algiers	1023·3	55	–	0	b	1023·9	+1	54	0	–	0	b	–	61	50
Sweden.	Hernösand	1015·8	34	WNW	4	b	1016·0	*	30	-4	WNW	4	b	*	*	*
	Stockholm	1018·1	32	W	2	b	1020·0	*	32	-4	NNW	4	b	*	*	*
	Wisby	1016·2	34	NW	2	b	1019·3	*	32	-4	NW	4	b	*	*	*

Iceland.	Morning of 26th. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather
		°F	°F			
Isafjord	1022·9	30	-4	E	2	o
Reykjavik	1023·1	34	-5	W	4	o
Vestmanna						
Seydisfjord	1011·3	43	+16	W	8	p
Thorshavn	1014·6	46	+5	WNW	6	m

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

27th and 28th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.33 / 4.30	11.51 / 11.50	7.8 / 7.10
Greenwich	4.43 / 4.41	11.58 / 11.57	7.13 / 7.15
Wick	4.32 / 4.29	12.10 / 12.9	7.48 / 7.50
Valencia	5.22 / 5.20	12.39 / 12.38	7.56 / 7.57

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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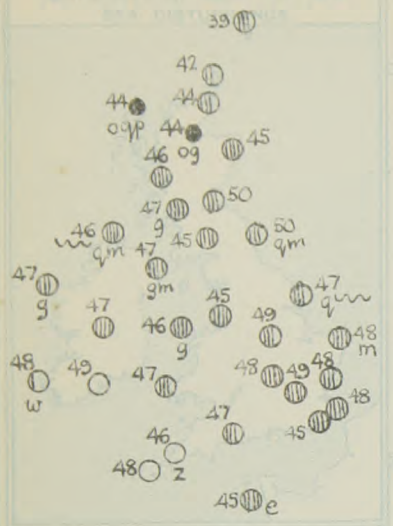
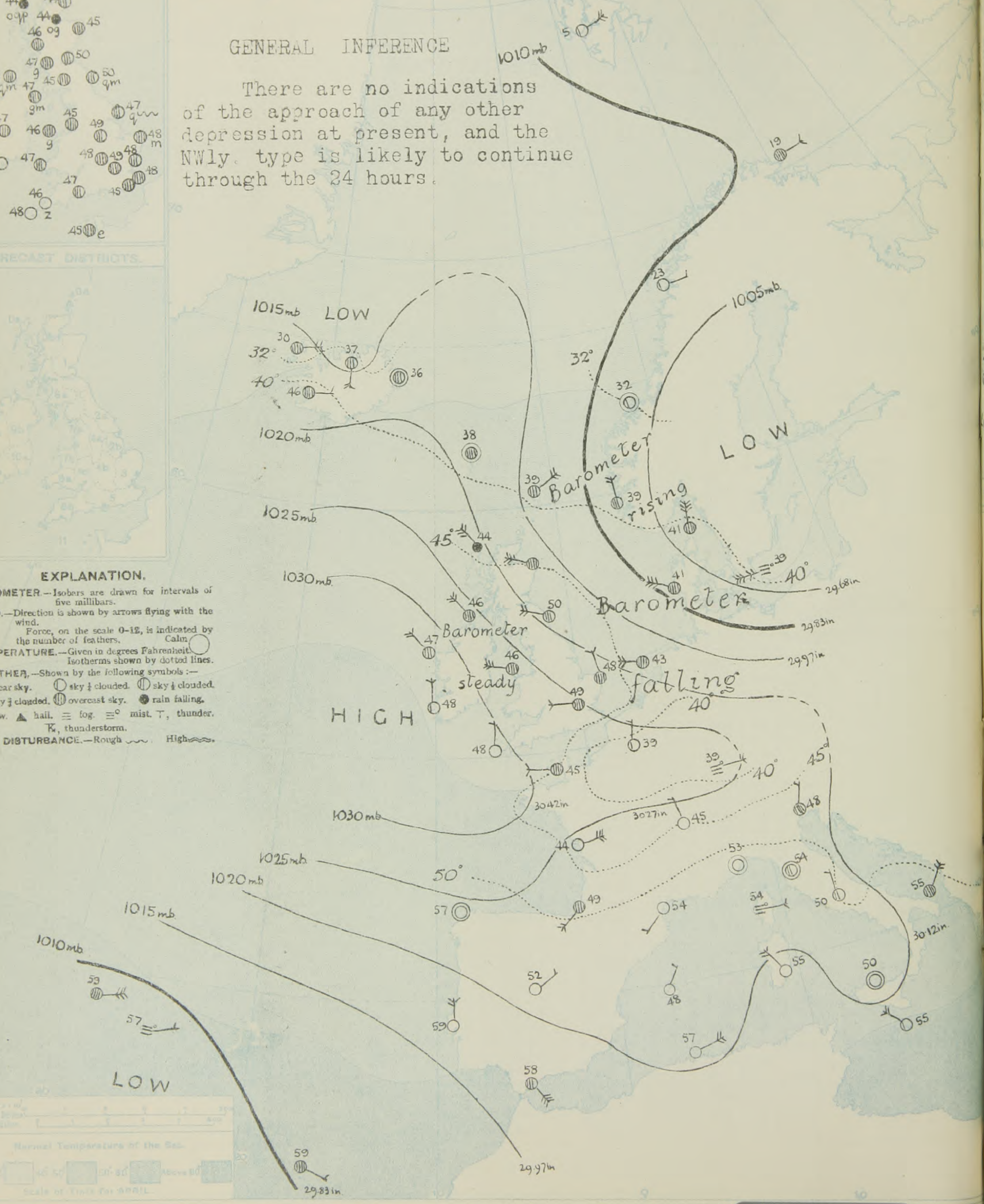
‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 27TH APRIL, 1917.

GENERAL INFERENCE

There are no indications of the approach of any other depression at present, and the NWly. type is likely to continue through the 24 hours.





EXPLANATION.

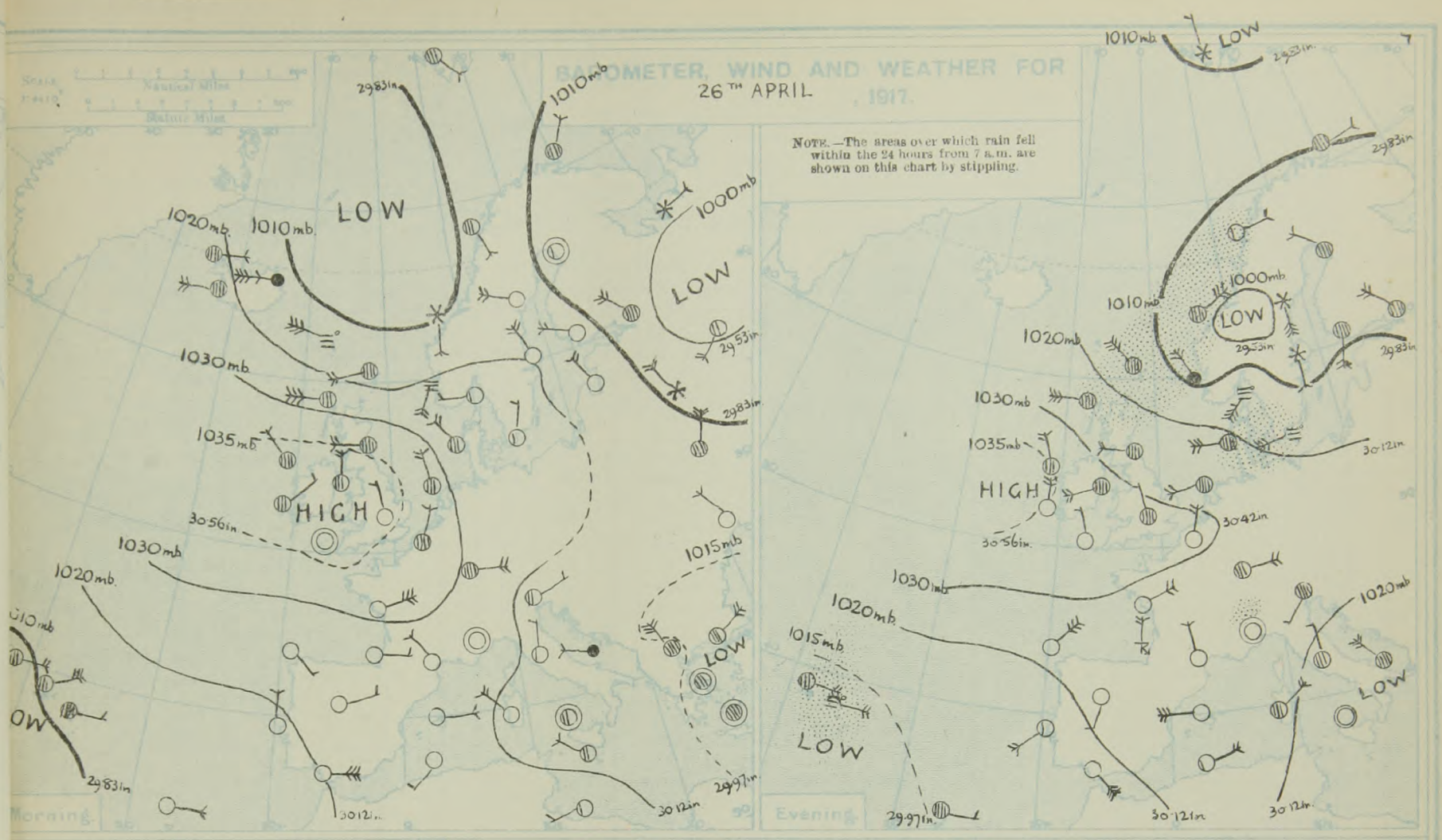
BAROMETER.—Isobars are drawn for intervals of five millibars.

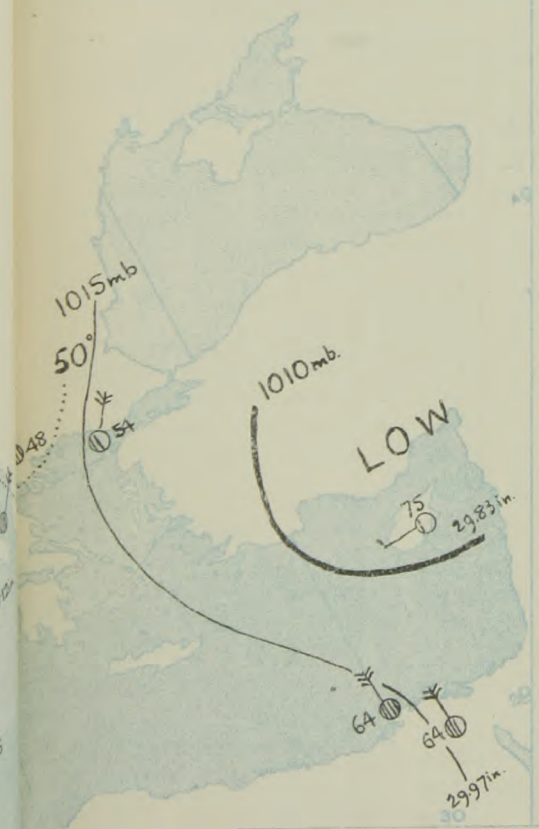
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 ≈≈.





FORECASTS FOR NOON FRIDAY TO NOON SATURDAY

1 { a / b } NWly. winds, moderate or fresh; variable sky, some showers; colder.

2 { a / b }

3 }

4 { a / b / c } NWly.and Wly. winds, moderate, fresh locally;fair generally, but local showers. Moderate temperature.

5 }

6 { a / b } Same as 0,1 and 2

7 }

8 { a / b } Wind mainly NWly, moderate or light; fair generally, some local showers. Moderate temp.

9 { a / b } Same as 0,1 and 2

10 { a / b } Same as 7 and 8

11 { N. and NE. winds, moderate or light; sea slight; fair generally.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 117. Friday 27th April

	STATIONS.	EVENING OF 26th				MORNING OF 27th								24 HOURS ENDED 7 A.M. 27th						Sunshine for 26th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1015·5	46	NW	6	cq	1013·4	+2	39	−6	NE	4	NE	c	4	3	48	39	cmq	c.cq	c.cp	*
	Deerness (Orkney)	1018·3	46	W	7	c	1014·9	*	42	−4	NW	6	NW	bc	4	Trace	50	41	b.bc.cm	cm	c.c.bc	0·0
	Stornoway ...	1024·2	49	W	6	cpq	1021·0	0	44	−4	NW	4	—	cpq	4	4	51	43	c.cpq	cpq	cpq	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1027·0	48	W	5	cq	1021·9	−3	47	+3	WSW	3	—	cq	*	Trace	52	44	alp.cm	c	c.bc.cp	1·2
	Eskdalemuir ...	1027·5	48	WNW	2	c	1022·6	0	45	+2	W	4	—	c	*	—	54	43	c	cq	c	1·5
	Malin Head ...	1030·9	47	WNW	3	cm	1029·1	−1	46	+1	NW	4	—	cmq	5	0·2	50	45	cm	bcm	cmq	3·1
	Blacksod Point	1035·0	47	NNW	3	cz	1031·0	−2	47	+1	NW	3	NW	cq	3	—	54	45	cz	cz	cz.cq	*
	Valencia (Cahirciveen)	1034·8	53	N	4	b	1033·0	−1	48	−2	N	2	N	bw	2	—	58	43	bc.b	b	b.bw	10·9
	Roche's Point	1034·1	54	SSE.	1	c	?1032·0	*	49	+3	NNW	3	—	b	2	—	55	44	bz	bcz	c.b	*
	Birr Castle ...	1033·9	54	NNW	1	c	1031·1	*	47	+2	WNW	1	—	c	*	—	56	44	c	c.c	c.c	7·5
	Donaghadee ...	1030·0	51	WNW	4	bcm	1025·9	−1	47	+4	NW	4	—	cqm	3	—	53	42	m	cm	cqmq	*
	Liverpool (Bidston)	1030·9	47	W	3	c	1026·9	−1	45	c	WSW	4	W	c	3	—	52	43	bc	c	c	5·9
	Holyhead ...	1032·3	46	WSW	4	cq	1027·7	−1	46	+2	WNW	5	—	cq	4	—	55	44	a.bc.b	b.bc.cd	c.bc.c.c	7·9
	Pembroke (St. Ann's)	1033·1	44	WNW	2	b	1029·5	−1	47	+8	NNW	3	N	c	3	—	49	37	f.	bf.	bc.c	3·7
	Scilly (St. Mary's)	1033·9	50	NNW	1	bm	1030·9	0	48	+2	N	1	—	b	3	—	54	44	bm	bm	bm	11·2
	Falmouth ...	1032·3	49	NW	3	bz	1029·4	0	46	+2	NNW	2	—	bz	*	—	56	41	cz.bcz	bz	bw	8·0
	Jersey (St. Aubin)	1031·8	47	N	3	b	1028·0	*	45	+2	W	2	—	oc	1	—	50	35	b	b	b.ce	12·2
	Portland Bill ...	1032·1	45	W	3	bc	1027·5	−1	47	+5	NW	3	NW	c	2	—	48	43	c	c.bc	bc.c	*
	Dungeness ...	1030·7	43	WSW	3	b	1024·6	−1	45	+5	WSW	3	—	o	2	—	49	44	bc	b	bc.o	*
	Dover	1032·2	43	SW	2	bc	1024·9	−1	48	+7	W	2	W	o	2	—	48	37	c.o	bc	bc.c.o	4·2
	Wick	1020·1	47	WNW	5	r	1016·5	0	44	−3	NW	4	—	c	4	1	56	42	cm.cmd	cmd	cdq.cm	*
	Nairn	1023·1	50	W	5	cqq	1018·8	*	44	−4	NW	4	—	crq	3	2	55	43	cq.c	cqq	cmprq	1·0
	Aberdeen ...	1022·2	52	W.	5	cqx	1018·1	+1	45	−5	WNW	5	—	o	3	0·3	57	44	c.cq.o	cqr	cq.c.op	1·4
	Leith	1025·1	51	W	2	c	1019·2	−1	50	+4	W	3	NW	c	3	—	52	45	c.cq.o	cq.o.c	c.bcq.k	*
	Tynemouth ...	1026·7	51	W	3	cm	1019·8	−2	50	+4	WNW	4	NW	cmq	3	—	56	45	cqm	cqm	cmq	*
	Spurn Head ...	1028·8	49	NW	3	cm	1021·3	0	47	+7	WNW	5	—	cq	5	—	53	40	cm	cm	cq	0·3
	Yarmouth (Gorleston)	1028·8	47	SSW	2	c	1022·2	−2	48	+8	NNW	2	—	cm	2	—	49	40	bc	cm	cm	9·0
	Clacton-on-Sea	1030·3	45	S	2	c	1023·7	−2	48	+9	WNW	3	NW	c	2	—	48	39	c.bc.b	b.bc.c	c.o.c	7·9
	Nottingham ...	1029·8	54	WNW	4	c	1024·1	*	49	+10	WNW	4	NW	c	*	—	57	39	b.bc	b.o	b.o	2·2
	Benson (Oxon.) ...	1030·2	49	SW	1	c	1025·3	−1	48	+7	W	2	—	o	*	—	55	40	b	bc	c	*
	Sth Farnborough	1029·8	54	SW	2	c	1025·4	−2	46	+11	WNW	1	—	o	*	—	58	37	b.	b.o	o	10·7
	London (Kew Obsy.)	1030·3	55	NNW	1	c	1025·5	−1	49	+11	W	2	W	o	*	—	55	38	bmx.bz	bz.o	o	9·9
NORTHERN EUROPE.	Spitsbergen ...	1009·5	5	N	1	s	1009·6	+1	5	+16	ENE	4	*	b	*	*	7	−11				
	Vardö	1010·0	18	E	2	c	1009·3	0	19	−2	E	2	—	c	4	*	21	18				
	Bodö	1006·3	25	E	2	b	1006·4	0	23	−5	E	1	—	b	1	?	32	18				
	Christiansund ...	1003·9	36	NE	5	c	1007·9	+1	32	−4	—	0	—	b	4	2	41	30				
	Skudesnaes ...	1009·1	41	NW	4	r	1005·9	0	39	0	N	3	—	c	2	5	43	32				
	Færder (X'landa Fjord)	1011·9	41	SW	6	bc	1001·7	+4	37	0	NNE	6	W	c	2	—	41	32				
	The Scaw (Skagen)	1009·0	43	SW	7	m	1001·0	−3	41	0	N	6	—	o	6	—	43	39				
	Blaavands Huk	1020·4	41	W	5	c	1009·1	−4	41	0	WNW	6	—	o	?	Trace	45	34				
	Copenhagen ...	1017·3	45	W	5	c	1003·5	−4	45	+4	WNW	6	—	r	*	Trace	50	41				
	Bornholm ...	1014·6	37	WSW	6	m	1002·9	−3	39	+2	W	9	N	m	3	Trace	43	36				
FRANCE, &c.	The Helder ...	1029·1	41	WSW	3	c	1019·7	−3	43	+4	W	4	—	c	3	—	45	39				
	C. Gris Nez ...	1030·9	44	NNE	3	b	1026·7	−2	43	+3	SW	3	*	c	3	—	50	41				
	La Hève	1032·7	45	NNE	2	b	1029·9	*	39	+2	WSW	3	*	c	2	—	50	37				
	Brest (St. Mathieu)	1032·6	55	NE	3	b	1030·3	−1	45	+1	NE	1	*	m	0	—	61	45				
	Rochefort (Ile d'Aix)	1027·4	58	ENE	4	b	1024·8	0	44	−1	ENE	5	*	b	*	—	66	39				
	Biarritz	1025·2	55	N	3	tl	1024·0	0	49	+1	SW	3	*	c	2	—	61	45				
	Paris	1029·3	46	N	3	b	1027·3	−1	39	0	NNE	1	NW	b	*	—	50	30				
	Belfort	1027·5	46	E	4	c	1026·1	*	39	0	E	2	*	m	*	—	53	32				
	Lyons	1024·7	53	N	2	b	1024·6	*	45	+2	NNW	1	*	b	*	—	59	35				
	Nice	1021·1	51	—	0	b	1020·8	0	53	+1	—	0	*	b	0	—	63	45				
	Perpignan ...	1022·3	63	NNW	2	b	1022·6	0	54	+2	SW	1	*	b	*	—	68	32				
	Sanguinaire ...	1021·6	57	W	3	bc	1022·1	*	54	−1	E	2	*	m	2	—	66	52				
SOUTHERN STATIONS.	Corunna	1021·5	61	NE	6	b	?1021·6	+1	57	+3	—	0	—	b	2	—	66	45				
	Madrid	1019·9	63	SSW	1	b	1022·1	+1	52	+2	NE	1	—	b	*	—	64	45				
	Lisbon	1015·9	72	SW	3	b	1016·3	0	59	+2	N	3	—	b	2	—	77	55				
	Azores (Horta) ...	1011·9	*	ESE	4	c	1009·2	0	59	−1	ENE	6	*	c	3	4	64	59				
	Madeira	1016·4	64	E	1	c	1013·3	−2	59	+2	ESE	1	—	c	2	—	64	59				
	Cibraltar	1019·6	59	SE	6	b	1017·9	*	58	−1	SE	6	*	c	3	—	64	57				
	Malta	*	*	*	*	*	1019·4	+1	55	0	NW	3	—	b	2	—	61	52				
	Limassol	*	*	*	*	*	1008·2	+1	75	0	W	1	—	b	3	—	90	59				
	Alexandria ...	1013·6	66	NNE	3	c	1015·8	+1	64	−4	N	5	W	c	4	—	79	63				
	Cairo (Helwan) ...	1012·2	70	NNE	3	c	1013·2	+4	64	−9	N	4	S	c	*	—	95	61				

GALES.
Duration and Extreme Force in British Islands.

Aberdeen:-

Gust, 19 m/s yesterday afternoon.

Note

Solar Halo:- was observed at Deerness this morning

LONDON OBSERVATIONS.	Humidity. 15h. 26th	Humidity. 9h. 27th	Sunshine for 26th	24 Hours ended 9 h. 27th April. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	53	75	9·0	57	43	37	—	b	b.bc	o.bc.sr.
CITY (Bunhill Row)	*	*	8·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	50	74	8·3	57	43	42	—	b	b	bc
CAMDEN SQ. (British Rainfall) ...	47	64	9·1	60	45	38	—	b	b.c	*
HAMPSTEAD (Reservoir)	*	70	10·5	56	42	33	—	bc.o	o	c
S. KENSINGTON (Museum Grounds)	*	69	8·1	58	43	39	—	b.bc	b	b.c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 26th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1499	28·8	61·5

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

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

Issue No. 20,246 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Saturday, 28th APRIL

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Friday, 27th APRIL, 1917.

Temperature again rose to above 55° at some stations. Bright sunshine was very little prevalent in the SW. of England, and in some Irish localities. Rain fell in the North of Scotland.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Friday, 27th APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 26th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 27th.
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·2	2	–	48	45	op	o	0·0
	Banff	2·2	2	1	47	42	c.o	od	0·5
	Montrose	0·8	–	1	51	43	bc	o	0·2
	St. Andrews	x	–	3	56	44	op	op	0·5
Eng. N.E.	Harrogate	2·7	–	–	54	43	c.o		0·1
	Skegness	3·5	–	–	51	43	b.c.o	o	5·9
Eng. N.W.	Morecambe								
	Southport	2·7	–	–	48	45	o.c.o	o	0·0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0·6	–	–	58	44	bc	bc.c	2·5
Wales.	Rhyl	6·3	–	–	51	45	o	o.c	0·6
	Colwyn Bay	x	x	x	51	46	c	c	0·1
	Llandudno	x	x	x	51	45	c	c	0·6
	Aberystwyth	x	x	x	49	45	o.c	c.o	0·0
England, E.	Lowestoft	8·2	–	–	54	44	o	o	0·0
	Felixstowe	8·8	–	–	56	43	cm	cm	0·2
	Walton-on-Naze	9·0	–	–	56	42	bc.c	bc.c	0·2
	Southend-on-Sea	8·1	–	–	58	42	o	o.c	0·1
England, S.E.	Margate	6·8	–	–	56	40	o	o	0·0
	Hastings	6·0	–	–	58	38	bc.o	bc.c	1·4
	Eastbourne	6·6	–	–	56	41	o.c.bc	bc.b	1·8
	Seaford	11·4	–	–	57	40	c	c.o	3·1
	Brighton	5·3	–	–	59	41	o	o.c	1·7
	Worthing	12·4	–	–	59	41	c	c	2·2
	Littlehampton	x	–	–	58	41	–	–	1·3
	Bognor	x	–	–	57	42	bcg	g	2·7
	Bournemouth	6·5	–	–	57	40	o.c	c.o	3·0
England, S.W.	Weymouth	x	x	x	58	42	bc	bc.cz	1·8
	Torquay	1·7	–	–	57	40	o.c.bc	bc	3·3
	Paignton								
	Penzance	9·7	–	–	57	43	bc	bc	8·0
	Newquay	4·0	–	–	51	36	b	b	8·2
	Bude	x	–	–	53	43	b	b	5·8
	Ilfracombe								
	Weston-s-Mare	2·4	–	–	54	43	o.c.bc	bc.b	1·5

REPORTS FROM FOREIGN STATIONS FOR Friday, 27th APRIL.

	STATIONS.	Evening of 26th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 27th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	1002·7	23	NE	3	o	999·2	−2	?		N	4	S	–	x	15
	Gorki	1014·3	30	–	o	b									x	
	Velieki Luki	1011·8	28	SSW	3	c	1009·9	x	30	−2	S	2	o	–	x	25
	Hangö	1009·7	30	SSW	4	o	994·7	−5	30	+2	SSE	8	s	?	x	25
	Riga						999·3	−7	34	o	SSW	5	o	1	x	30
	Petrograd	1006·1	32	NW	4	o	1004·7	−2	27	−3	SW	2	c	–	36	25
	Moscow	1005·2	32	NNW	4	bc	1009·0	+5	28	−15	W	7	o	–	x	28
	Kiev														x	
	Kharkov														x	
	Kishinev	1022·3	34	N	3	b	1024·4	+2	36	—	–	o	b	–	x	30
	Elisabetgrad	1021·3	46	NW	3	b	1024·4	+2	34	−12	NNW	1	b	–	x	27
	Nicolaiev							x							x	
	Odessa														x	
	Tarkhankout	1020·7	50	N	5	bc	1023·8	x	34	−18	NE	5	b	–	x	34
	Soukhoum						1014·3	+7	59	–	–	o	o	1	x	55
MEDITERRANEAN.	Venice	1021·9	55	SW	1	o	1023·1	x	48	−6	NE	1	o	3	761	48
	Pesaro	1023·0	50	E	1	b	1020·0	x	50	o	NE	1	bc	–	57	45
	Rome	1019·9	54	N	1	c	1020·3	x	50	+2	N	1	bc	–	63	45
	Viesti	1019·4	55	NW	6	b	1019·3	x	54	+2	WNW	2	c	–	59	48
	Brindisi	1015·9	57	NW	5	o	1015·4	x	55	+3	NE	4	o	–	59	52
	Cagliari	1020·3	61	NE	3	c	1019·1	x	55	−2	NW	3	b	–	64	43
	Palermo	1019·1	55	–	o	b	1020·2	x	50	−2	–	o	b	–	63	43
	Tripoli							x								
	Algiers	1023·0	57	ENE	3	b	1020·4	o	57	+3	ENE	4	b	–	61	52
SWEDEN.	Hernösand	1001·1	30	S	6	s	998·9	x	28	−2	N	4	o	x	x	x
	Stockholm	1004·8	36	S	2	s	993·9	x	34	+2	N	4	r	x	x	x
	Wisby	1007·4	39	SW	4	o	993·5	x	37	+5	W	4	o	x	x	x

Morning of 27th

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1018·9	30	0	E	4	o
Reykjavik	1016·7	46	+12	E	1	o
Vestmanna						
Seydisfjord	1015·4	36	−7	–	o	c
Thorshavn	1018·2	38	−8	–	o	o

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

28th and 29th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.30 / 4.28	11.50 / 11.50	7.10 / 7.12
Greenwich	4.41 / 4.39	11.57 / 11.57	7.15 / 7.16
Wick	4.29 / 4.26	12.9 / 12.9	7.50 / 7.52
Valencia	5.20 / 5.18	12.38 / 12.38	7.57 / 7.58

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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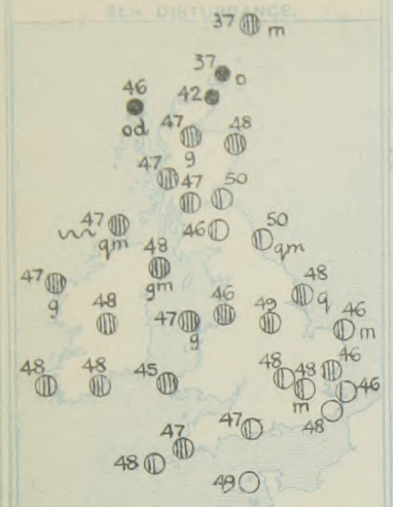
‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 28TH APRIL, 1917.

GENERAL INFERENCE

Local irregularities in pressure over the British Isles and the North Sea will probably cause less fine weather in many places

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

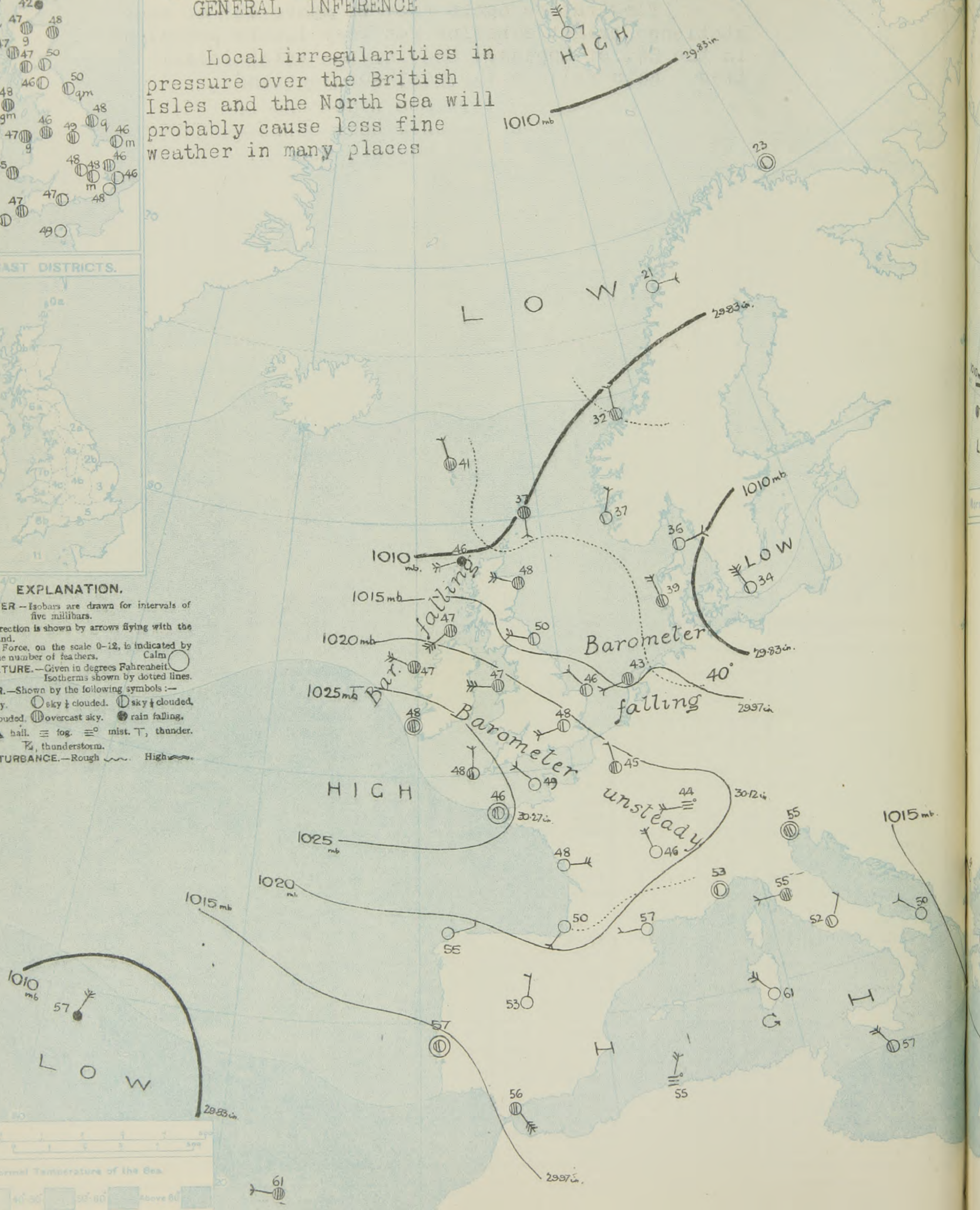
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

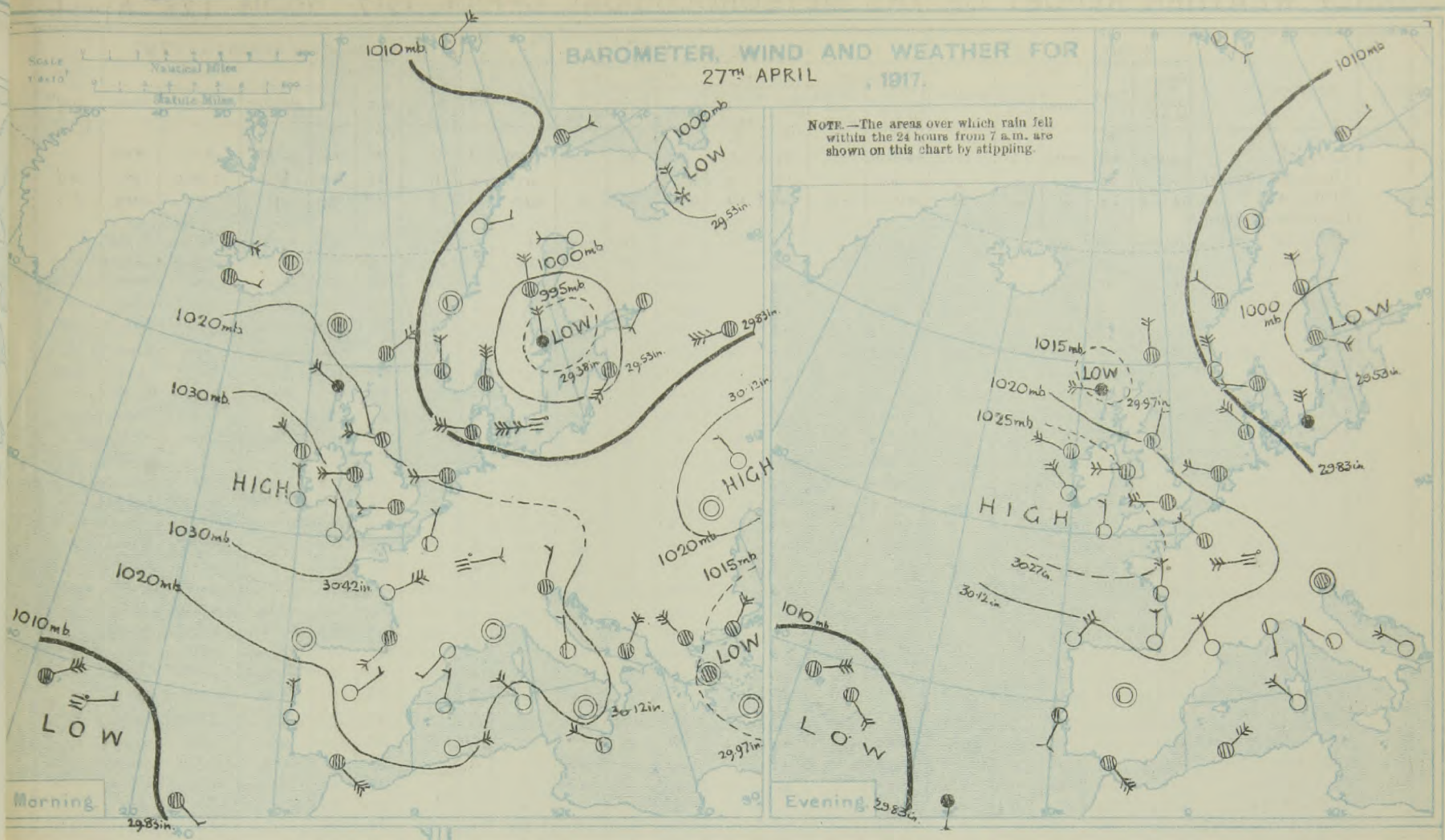
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

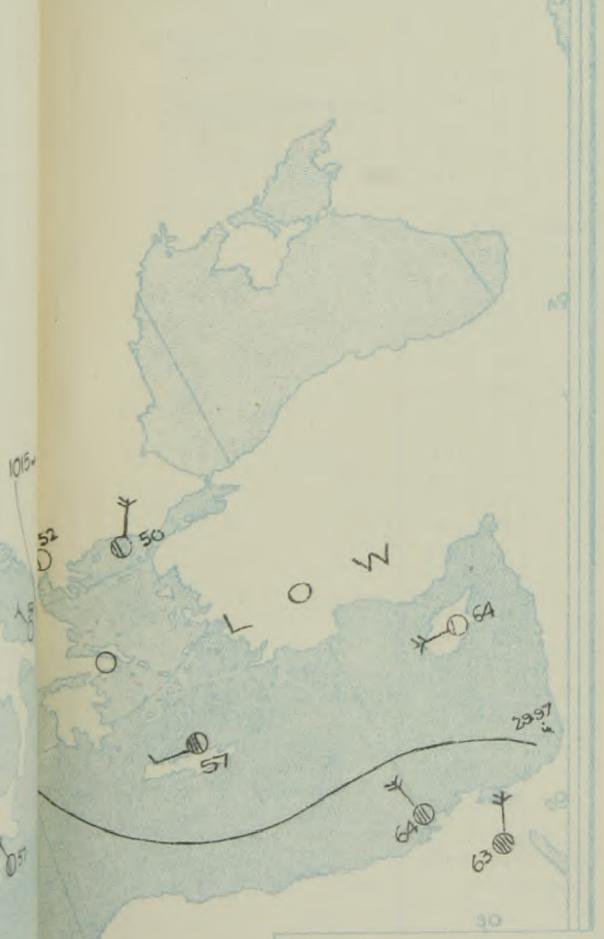


BAROMETER, WIND AND WEATHER FOR 27TH APRIL, 1917.



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

FORECASTS FOR NOON SATURDAY TO NOON SUNDAY



0 {a, b}, 1 — Wind between NW. and SW. light or moderate, variable sky, some rain. Moderate temperature.

2 {a, b}, 3 — Wind mainly Wly, light or moderate; mostly fair, some local showers; moderate temperature.

4 {a, b, c}, 5 — Wind between NW. and SW. light or moderate, changeable, showery; moderate temperature.

6 {a, b}, 7 {a, b} — NW. to W. winds, light or moderate; fair generally, local showers; moderate temperature.

8 {a, b} — Same as 6 and 7

9 {a, b} — Same as 8

10 {a, b} — Wind between NW. and NE, light, sea slight; fair.

11 — FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 118. {Saturday 28th April.

	STATIONS.	EVENING OF 27th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 28th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 28th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 27th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1016·0	38	NNW	3	o	1010·0	−1	37	−2	S	2	—	om	2	—	41	36	c.bc	c.o	om	*
	Deerness (Orkney)	1015·9	38	ESE	3	o	1010·1	*	37	−5	SSE	4	—	or	4	11	44	34	bc.c	c.or.o	or	2·6
	Stornoway ...	1014·9	47	W	4	or	1011·1	−3	46	+2	WSW	4	—	odr	4	8	48	42	op	or	odrq	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1019·4	48	W	4	c	1015·5	0	47	0	W	4	NW	c	*	Trace	51	46	omdp	b.bc.c.o	c.o.c	2·4
	Eskdalemuir ...	1020·0	45	W	4	o	1014·8	−4	46	+1	WNW	8	W	bc	*	0·2	48	43	o.od.o	o.od.o	od.bc.c	0·0
	Malin Head ...	1023·3	46	WSW	4	m	1018·1	?	47	+1	SW	6	W	omqr	6	—	50	45	om	cm	omq	1·1
	Blacksod Point	1027·5	48	WNW	4	cx	1023·4	−3	47	0	WNW	4	—	og	4	—	52	45	cx	ex	cx.og	*
	Valencia (Cahirciveen)	1029·9	52	NW	4	b	1026·9	−1	48	0	—	0	NW	c	1	—	54	44	b.bc	bc.b	b.bc	13·6
	Roche's Point	1028·5	55	NW	3	bc	1026·5	*	48	−1	NW	1	NW	c	1	—	53	44	b.bc.c	bc	b.bcc	*
	Birr Castle ...	1027·1	60	NW	1	c	1024·4	*	48	+1	W	1	—	o	*	—	58	46	c.o	o	c.o	3·8
	Donaghadee ...	1022·6	50	WNW	4	omq	1019·4	0	48	+1	WNW	3	—	ogm	3	—	53	47	cmq	cmq	ogmq	*
	Liverpool (Bidston)	1023·2	47	WSW	4	o	1020·0	−2	46	+1	WSW	5	W	o	4	—	49	44	o	o.c	bc.o	0·0
	Holyhead ...	1024·8	50	W	4	cg	1021·6	−1	47	+1	W	5	—	og	4	—	53	45	o.cm	c.om	bc.c.o	0·8
	Pembroke (St. Ann's)	1026·6	47	W	2	c	1024·6	+1	45	−2	W	2	—	o	2	—	51	43	c	c	c.b.bc.c	4·7
	Scilly (St. Mary's)	1029·0	52	N	1	bm	1026·8	−1	48	0	N	2	N	bc	3	0·2	54	45	bcm	bm	bm.bc.c	11·5
	Falmouth ...	1027·1	52	NNW	2	b	1024·6	0	47	+1	NW	1	—	c	*	—	56	43	bx.c.bc	bc.b	b.bc.c	10·2
	Jersey (St. Aubin)	1025·5	53	NW	2	b	1023·9	*	49	+4	NW	2	—	b	1	—	55	44	cc.bc.c	c.bc.b	b	10·2
	Portland Bill ...	1024·7	50	NNW	3	c	1023·0	−2	47	0	NW	2	N	bc	2	—	51	44	c	bc.c	bc.b	*
	Dungeness ...	1021·6	55	NW	3	og	1019·5	−1	48	+3	W	3	—	b	2	—	58	40	o	o.c.o	c.bb	*
	Dover	1021·8	53	NW	4	o	1020·3	o	46	−2	NW	3	W	b	3	—	55	40	o.c	c.o	c.bc	1·2
	Wick	1015·7	40	N	2	o	1010·2	−3	42	−2	NE	2	—	r	2	16	45	35	cmq	emq.op	omr	*
	Nairn	1015·0	43	ENE	1	ork	1011·2	*	47	+3	NNW	2	—	o	2	10	47	42	d.cd	dg.	orqg	o.c
	Aberdeen ...	1016·9	43	—	0	r	1011·6	+1	48	+3	WNW	4	—	o	2	10	51	40	o.bc.oq	opr	or	4·6
	Leith	1017·5	51	W	3	c	1013·6	0	50	0	W	3	W	bc	3	—	55	47	c.bcq.c	c.o.bc.c	c.bc.bc	*
	Tynemouth ...	1018·4	47	NNE	1	cm	1014·6	−1	50	0	WNW	3	NW	bcmq	3	—	55	45	cmq	cmq	bcmq	*
	Spurn Head ...	1019·8	49	WNW	5	cqm	1016·1	−3	48	+1	WNW	5	—	cq	4	—	52	43	cq	oq	eq	0·0
	Yarmouth (Gorleston)	1019·6	50	N	1	o	1016·9	−1	46	−2	NW	2	—	bc	2	—	54	44	cm	om	om.bcm	0·0
	Clacton-on-Sea	1021·0	52	WNW	3	o	1019·3	−1	46	−2	WNW	3	NW	c	2	—	56	42	c.o	o.c.o	o.c.bc	0·2
	Nottingham ...	1022·3	51	WNW	4	o	1019·0	*	49	0	WNW	4	NW	c	*	—	55	44	c.o	c.o	o.c.b	0·9
	Benson (Oxon.) ...	1023·1	53	N	4	b	1020·2	−1	48	0	W	2	—	bc	*	—	57	37	o.c.o	bc	bc	*
	Sth Farnborough	1022·2	55	NW	3	c	1020·4	−1	47	−1	WNW	2	—	bw	*	—	58	38	o.c.o	o.c	c.o.b.o.bw	2·6
	London (Kew Obsy.)	1022·7	55	NW	3	o	1020·7	−1	48	−1	WSW	3	—	bcm	*	—	58	42	o.c.o	o	o.bc.b.bcm	5·5
NORTHERN EUROPE.	Spitsbergen ...	1011·8	0	SE	2	b	1011·9	0	7	+2	N	5	*	b	*	*	7	−17				
	Vardö	1009·2	19	ENE	1	c	1009·7	+3	23	+4	—	0	—	b	2	*	25	16				
	Bodö	1009·9	27	—	0	b	1009·2	0	21	−2	E	2	—	b	2	—	32	14				
	Christiansund ...	1008·3	34	NW	2	c	1010·9	0	32	0	N	2	—	c	4	8	36	28				
	Skudesnaes ..	1010·0	36	NNW	5	b	1010·9	0	37	−2	NNE	2	—	b	2	—	39	27				
	Færder (X'lania Fjord)	1005·9	37	NE	4	b	1010·3	+1	32	−5	NE	2	—	b	1	—	41	30				
	The Scaw (Skagen)	1005·2	37	WNW	2	o	1010·4	+6	36	−5	ENE	2	—	b	2	—	45	32				
	Blaavands Huk	1010·3	41	NW	5	c	1011·9	+2	39	−2	NNW	3	—	c	?	—	45	36				
	Copenhagen ...	1004·0	41	NNW	4	bc	1009·3	+3	37	−8	NNE	2	—	bc	*	Trace	46	36				
	Bornholm ...	1001·2	37	N	5	r	1004·4	+3	34	−5	NNW	5	—	b	2	—	41	32				
FRANCE, &c.	The Helder ...	1017·9	43	WNW	3	o	1014·9	−3	43	0	WSW	2	—	o	3	2	45	41				
	C. Gris Nez ...	1021·4	46	W	3	o	1020·3	o	45	+2	W	4	*	bc	2	—	48	43				
	La Hève	1026·4	49	NW	2	m	1024·7	*	43	+4	WNW	2	*	m	2	—	52	39				
	Brest (St. Mathieu)	1027·3	53	NE	3	b	1025·9	−1	46	+1	—	0	*	bc	o	—	61	43				
	Rochefort (Ile d'Aix)	1022·9	40	NNE	3	b	1022·6	o	48	+4	E	3	*	b	*	—	66	43				
	Biarritz	1021·6	54	N	2	b	1020·8	o	50	+1	SW	2	*	b	1	—	61	45				
	Paris	1022·9	55	N	2	o	1022·4	o	46	+6	NNW	1	—	c	*	—	59	37				
	Belfort	1021·6	51	W	5	m	1022·9	*	44	+5	W	3	*	m	*	—	59	37				
	Lyons	1020·2	57	NNE	2	b	1021·3	*	46	+1	NNW	3	*	b	*	—	62	43				
	Nice	1017·9	50	S	1	b	1016·6	o	53	o	—	o	*	b	1	—	63	46				
	Perpignan ...	1018·1	68	NNW	2	b	1019·4	o	57	+3	W	1	—	b	*	—	72	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·6	63	NE	5	b	1018·4	−1	55	−2	ENE	1	—	b	1	—	64	46				
	Madrid	1015·0	66	—	0	b	1019·9	−1	53	+1	NNE	1	—	b	*	—	68	45				
	Lisbon	1013·0	75	SSW	2	bc	1014·4	+1	57	−2	—	0	—	bc	2	—	77	57				
	Azores (Horta) ...	1008·6	*	ENE	6	o	1007·9	o	57	−2	NNE	4	*	r	2	8	61	57				
	Madeira	1012·4	64	S	2	r	1011·5	o	61	+2	W	2	—	o	2	1	66	59				
	Gibraltar	1017·6	59	SE	6	o	1016·6	*	56	−2	SE	6	*	c	3	—	61	56				
	Malta	*	*	*	*	*	1019·0	+1	57	+2	NW	4	—	bc	2	—	61	54				
	Limassol	*	*	*	*	*	1013·0	+3	64	−11	W	3	—	b	3	—	84	54				
	Alexandria ...	1016·2	63	NNE	3	c	1014·9	+2	64	o	NNW	4	W	c	3	—	73	59				
	Cairo (Helwan) ...	1014·6	64	N	4	c	1016·6	+2	63	−1	NE	3	SE	o	*	—	79	59				

GALES.
Duration and Extreme Force in British Islands.

Eskdalemuir:-
N.N.W. 8, 6h to 7h
Gust:- 25 m/s.

LONDON OBSERVATIONS.

	Humidity. 15 h. 27th	Humidity. 9 h. 28th	Sunshine for 27th	24 HOURS ENDED 9 h. 28th April: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	63	69	0·6	54	42	33	—	o	o	bx.bc.c
CITY (Bunhill Row)	*	*	1·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	60	68	2·4	60	42	34	—	bc	c	bc
CAMDEN SQ. (British Rainfall) ..	54	63	2·4	62	42	34	—	o	c	*
HAMPSTEAD (Reservoir)	*	69	2·4	56	39	28	—	c.o	bc	bcx
S. KENSINGTON (Museum Grounds)	*	67	1·5	59	43	35	—	bc	o.bc	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 28th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1069	20·5	66

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

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

Issue No. 20,247. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Sunday, 29th APRIL.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Saturday, 28th APRIL, 1917.

Temperature exceeded 55° over a wide area, and touched 60° locally. Rain fell in Northern Scotland; 13 mm at Deerness. Bright sunshine was abundant in some parts of England and at Valencia.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Saturday, 28th APRIL, UP TO 17 H.

	STATIONS.	Sunshine for 27th	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 28th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·0	Trace	1	50	45	dp	o	0·0
	Banff	0·5	10	1	54	38	ordq	opdq	0·0
	Montrose	0·2	4	–	58	40	bc	o	2·0
	St. Andrews								
Eng. N.E.	Harrogate	0·1	–	–	56	42	o.c.bc	c.bc.c	2·9
	Skegness	*	*	*	59	40	bc.o	bc	2·7
Eng. N.W.	Morecambe								
	Southport	0·0	–	–	51	?	o.c.o	o.c.bc.o	0·3
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	2·5	–	–	61	42	bc.b	bc.c	5·7
Wales.	Rhyl								
	Colwyn Bay	*	*	*					
	Llandudno	*	*	*					
	Aberystwyth	*	*	*	48	45	o.c	c.o	0.0

	STATIONS.	Sunshine for 27th	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 28th
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft								
	Felixstowe	0·2	–	–	59	44	c.bc	bc	2·3
	Walton-on-Naze	0·2	–	–	59	42	bc	bc	2·7
	Southend-on-Sea	0·1	–	–	62	35	bc.c	bc.c.o	5·4
England. S.E.	Margate	0·0	–	–	59	45	bc.b bc	c.b.bc	5·3
	Hastings	1·4	–	–	57	42	bc b	b bc	5·9
	Eastbourne	1·8	–	–	55	45	b	b	8·0
	Seaford	3·1	*	*	57	44	bc	c	7·7
	Brighton	1·7	–	–	52	43	bc	c	6·2
	Worthing	2·2	–	–	57	40	c.bc	c	7·2
	Littlehampton	*	*	*	58	39	b	bw	4·6
	Bognor								
	Bournemouth	3·0	–	–	62	41	b.c	o	7·5
England. S.W.	Weymouth		*	*					
	Torquay	4·2	–	–	58	43			5·1
	Paignton								
	Penzance	9·4	–	–	57	45	bc	b	11·0
	Newquay								
	Bude	7·0	–	–	53	43	bc.c	c.bc	7·0
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Saturday, 28th APRIL.

	STATIONS.	Evening of 27th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 28th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel						1004·6	+3	21		–	0	c	–	*	10
	Gorki	1007·8	43	NW	4	0	1005·1	0	39		S	3	o	–	*	37
	Velieki Luki						1000·2	*	39	+9	S	3	r	2	*	39
	Hangö	993·9	30	N	2	S	997·7	+2	27	−3	NNE	4	r	?	*	23
	Riga	997·2	34	N	2	S	998·9	+1	34	0	WSW	2	o	2	*	34
	Petrograd	994·4	32	E	3	o	994·4	+4	34	+7	SW	4	o	5	37	27
	Moscow	1009·5	41	SSW	3	o	1009·5	+1	41	+13	SSW	3	c	–	*	28
	Kiev	1016·3	41	S	3	b									*	
	Kharkov	1020·7	41	W	2	b	1017·5	−2	39		SE	2	b	–	*	30
	Kishinev	1021·5	50	SSW	2	b									*	
	Elisabetgrad	1019·4	43	S	2	b	1015·0	−3	39	+5	S	1	c	–	*	28
	Nicolaiev	1018·9	45	–	0	b	1013·2	*	37		–	0	o	–	*	32
	Odessa	1019·6	45	S	2	b	1014·1	−3	41		S	2	b	–	*	37
	Tarkhankout	1018·7	39	ENE	3	b		*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1016·7	54	–	0	o	1016·3	*	55	+1	–	0	c	–	57	48
	Pesaro	1017·9	46	E	1	b	1017·0	*	52	+2	W	1	bc	–	57	41
	Rome	1017·7	54	NW	1	b	1018·5	*	52	+2	NE	1	bc	–	64	46
	Viesti	1016·9	52	NW	5	b	1016·9	*	52	−2	W	1	bc	–	54	48
	Brindisi	1015·1	54	NW	3	b	1015·4	*	50	−5	NW	2	b	–	57	48
	Cagliari	1019·0	63	NW	3	b	1019·0	*	61	+6	NW	4	b	–	66	52
	Palermo						1019·7	*	52	+2	–	0	b	–	66	45
	Tripoli						1019·9	*	61		[illegible]	0	b	–	?	45
	Algiers	1017·7	57	NE	5	c	1017·5	+1	55	−2	NE	3	m	–	63	54
SWEDEN.	Hernösand	1003·1	32	N	4	c	1007·1	*	27	−1	–	0	b	*	*	*
	Stockholm	999·0	28	SE	4	o	1004·2	*	30	−4	N	4	c	*	*	*
	Wisby	998·0	34	N	2	c	1001·9	*	28	−9	N	6	s	*	*	*

ICELAND.	Morning of 28th: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1022·6	23	−7	N	8	s
Reykjavik	1014·6	28	−18	–	o	b
Vestmanna						
Seydisfjord	1015·3	19	−17	NE	6	s
Thorshavn	1005·7	41	+3	NNW	2	o

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

29th and 30th APRIL, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	4·28 / 4·26	11·50 / 11·50	7·12 / 7·13
Greenwich	4·39 / 4·37	11·57 / 11·57	7·16 / 7·17
Wick	4·26 / 4·23	12·9 / 12·9	7·52 / 7·54
Valencia	5·18 / 5·16	12·38 / 12·38	7·58 / 7·59

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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TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

THE MORNING OF Sunday, 29th APRIL, 1917.

GENERAL INFERENCE

In the rear of the northern depression the wind will veer over the northern districts, with showery weather. There are some slight indications of the approach of a Secondary to the West of Scotland.

HIGH

1020 mb

1015 mb

1010 mb

1005 mb

1000 mb

995 mb

LOW

Bar.

Barometer falling

Barometer rising

Barometer slowly

32°

40°

50°

60°

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Normal Temperature of the Sea.

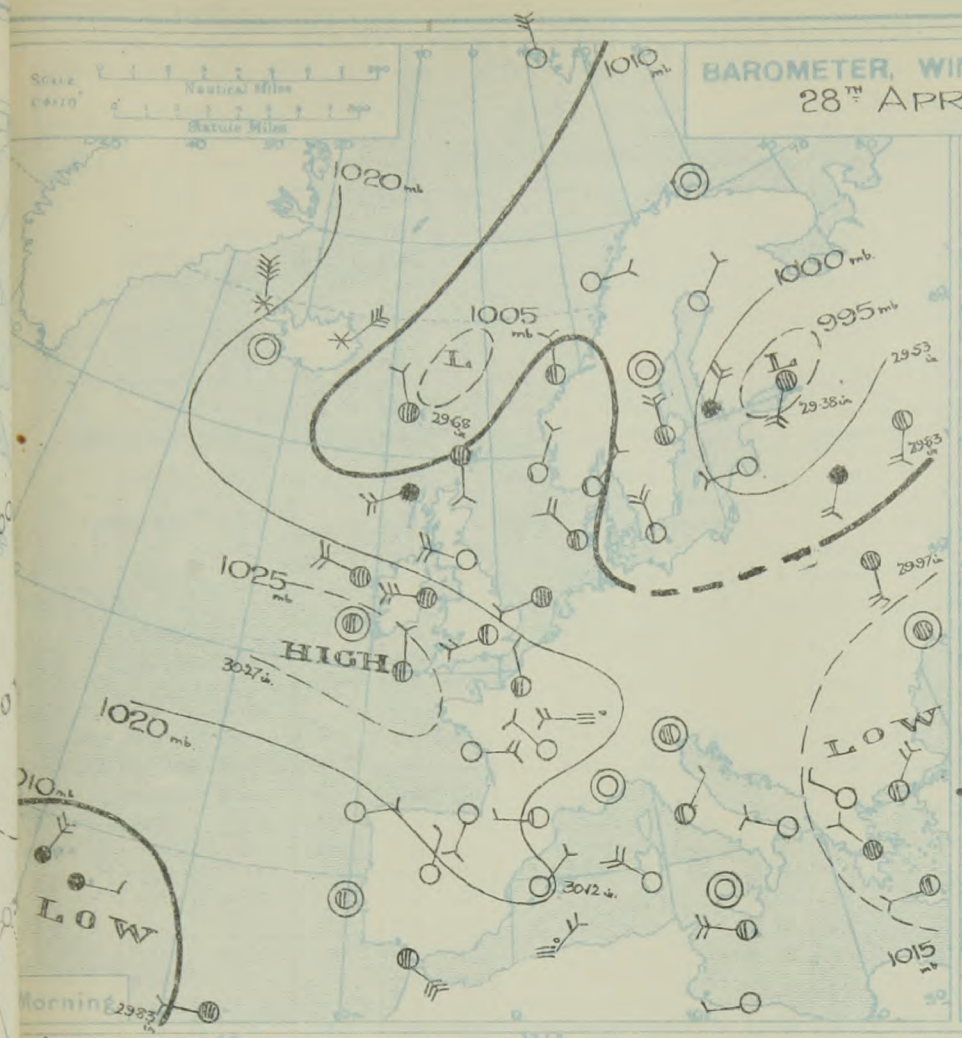
Below 40 | 40-50 | 50-60 | Above 60

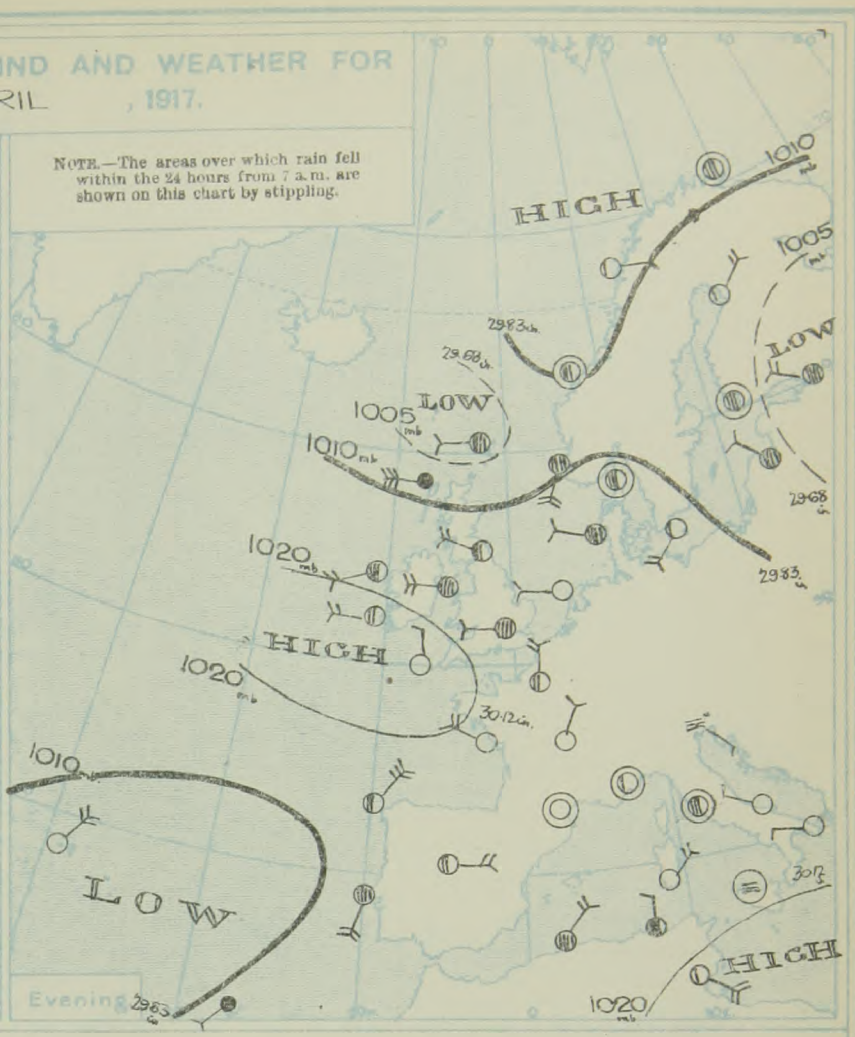
Scale of Tints for APRIL.

BAROMETER, WIND AND WEATHER FOR 28TH APRIL, 1917.

Scale 1/40,000,000 — Nautical Miles — Statute Miles

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





FORECASTS NOON SUNDAY TO NOON MONDAY

0 a, b; 1; 2 a, b — Wind N. and NW, fresh or strong to moderate; changeable, showery, cool.

3; 4 a, b, c; 5 — Wind mainly W, moderate or light; cloudy, some showers; moderate temperature.

6 a, b; 7 a, b — Wind between SW and NW, moderate or fresh; changeable, showery, cool.

8 a, b — NW. and W. winds, light; fair, moderate temperature.

9 a, b — Same as Nos. 6 and 7

10 a, b — W. and SW. winds, light or moderate; cloudy, some showers; moderate temperature.

11 — NW. and N. winds, light or moderate; sea slight; fair.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 119. {Sunday, 29th APRIL.

	STATIONS	EVENING OF 28th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 29th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 28th Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1001·0	42	W	2	om	993·6	+1	40	+3	NW	5	N	bc	4	17	42	36	oinr	omd	omd.bc	*
	Deerness (Orkney)	?	46	W	5	or	998·6	*	42	+5	WNW	6	NW	bc	5	13	47	37	orf	orf	rp.o.c.bc	0·0
	Stornoway ...	1006·1	48	W	6	orq	?1005·7	+4	41	-5	NW	4	–	bc	4	7	49	41	orq	orq	or.bcpq	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1012·3	48	W	4	o	1006·3	-3	46	-1	WSW	4	–	o	*	–	51	45	cq.o	o.c.oq	o.c.oq	0·9
	Eskdalemuir ...	1018·5	46	WSW	6	od	1008·6	-2	45	-1	W	6	–	op	*	0·2	49	42	bc.c.oc	od.o	od.o	0·1
	Malin Head ...	1014·9	47	W	6	omx	1009·9	*	46	-1	WSW	5	–	omq	5	–	50	45	omq	omq	omq	0·0
	Blacksod Point	1018·7	48	WSW	3	cmg	1014·9	-2	47	0	W	3	W	cm	3	–	52	44	cmg	cmg	omg.cm	*
	Valencia (Cahirciveen)	1022·9	52	W	3	bc	1019·2	-1	50	+2	WSW	3	W	o	2	–	54	46	bc.c.bc	bc.c.bc	bc.o	10·7
	Roche's Point	1022·0	56	NW	3	c	1019·2	*	49	+1	W	2	–	o	2	Trace	57	43	c.o	o.c	c.b.o	*
	Birr Castle ...	1020·3	50	W	2	o	1016·3	*	49	+1	W	2	–	o	*	–	53	47	o	o	o	0·0
	Donaghadee ...	1015·8	50	W	4	omq	1011·2	-3	48	0	W	5	–	ogmq	4	Trace	52	44	omq	omq	ogmqp	*
	Liverpool (Bidston)	1017·4	49	WSW	4	o	1013·4	-4	46	0	WSW	4	W	o	4	–	54	45	o	o.c.o	oq	1·5
	Holyhead ...	1018·6	51	W	4	oq	1014·7	-1	46	-1	WSW	4	–	oq	3	–	57	46	o.c	c.o	omq	2·4
	Pembroke (St. Ann's)						1018·1	0	46	+1	W	2	W	c	2	–	51	44			o.c	2·8
	Scilly (St. Mary's)	1023·1	53	N	1	b	1019·7	-1	48	0	–	0	N	bcm	2	–	56	44	bc	b	b.bcm	13·4
	Falmouth ...	1021·2	53	N	2	bz	1019·1	-1	45	-2	N	1	–	b	*	–	57	40	bc	bc.b	b.bmw	9·4
	Jersey (St. Aubin)	1020·8	54	WNW	2	b	1017·8	*	48	-1	WNW	2	–	bm	1	–	58	39	bc.b	b	bwm	11·2
	Portland Bill ...	1019·4	48	WNW	3	c	1018·3	-1	48	+1	WNW	1	–	b	2	–	51	43	bc	bc.c	c.bc.b	*
	Dungeness ...	1016·8	48	WSW	4	bc	1014·5	-1	51	+3	WSW	2	W	c	1	–	55	45	bc	bc	c.o.bc	*
	Dover	1017·8	55	–	0	c	1015·6	0	53	+7	WNW	2	W	c	2	–	57	44	bc.c.o	o.c	c	4·9
	Wick	1003·8	48	WNW	3	p	1000·9	+6	42	0	NW	5	NW	c	3	7	45	40	oinr	oinr	oinp.cq	*
	Nairn	1006·7	49	W	3	cg	1003·4	*	45	-2	NNW	6	–	bcq	4	1	52	43	op.c	cgq	cpq	0·1
	Aberdeen ...	1006·9	52	W	4	o	1003·1	+4	45	-3	NW	4	–	cp	3	1	56	45	op.o	oq	o.cp	0·0
	Leith	1010·1	50	W	4	o	1006·2	-1	48	-2	WSW	5	–	o	4	–	55	46	bcq.c.o	o	o.cqgo	*
	Tynemouth ...	1012·2	52	WNW	3	cmq	1007·7	-2	48	-2	W	5	W	cmq	3	–	58	47	cq	cmq	cmq	*
	Spurn Head ...	1015·7	51	NW	5	cq	1012·6	-1	47	-1	WSW	5	–	c	4	–	56	45	cqm	cq	bcq	4·9
	Yarmouth (Gorleston)	1015·6	56	NW	3	bc	1013·8	-2	48	+2	WNW	2	–	om	2	–	58	40	bcm	bcm	om	1·5
	Clacton-on-Sea	1017·2	57	WNW	3	c	1015·5	-1	50	+4	SW	2	W	c	1	–	60	45	c	c	c.bcc	2·6
	Nottingham ...	1016·9	55	WNW	3	bc	1013·9	*	49	0	W	3	W	c	*	–	56	47	c.o	c.o	bc.c	1·4
	Benson (Oxon.) ...	1018·1	57	NW	1	o	1015·4	-1	49	+1	WSW	2	–	o	*	–	59	48	bc	c	o	*
	Sth Farnborough	1017·3	58	WNW	2	o	1015·7	-1	50	+3	WNW	3	–	bc	*	–	63	46	bc	bc.o	o.bc	7·9
	London (Kew Obsy.)	1017·6	58	W	2	o	1016·0	-1	51	+3	W	3	W	om	*	–	60	47	bcm.o.c	c.o	o.om	5·6
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1011·4	19	–	0	c	1008·8	-4	23	0	–	0	–	s	?	*	?	?				
	Bodö	1010·3	28	E	2	b	1006·3	0	23	+2	E	3	–	b	2	–	28	19				
	Christiansund ...	1010·3	34	–	0	c	1001·2	-4	32	0	E	3	–	b	4	–	37	27				
	Skudesnaes ..	?1007·4	37	SSW	4	o	991·9	-11	34	-3	SE	8	–	s	6	?	41	32				
	Færder (X'lania Fjord)	1010·7	37	SW	4	bc	1004·3	-6	32	0	ESE	6	–	s	3	–	37	28				
	The Scaw (Skagen)	?1011·8	36	–	0	c	1000·2	-6	36	0	SE	5	–	s	5	1	37	34				
	Blaavands Huk	1013·2	39	NW	2	o	1003·4	-3	43	+4	W	4	–	o	?	4	43	36				
	Copenhagen ...	1012·3	41	NNE	3	bc	1005·1	-6	36	-1	S	4	–	s	*	5	41	34				
	Bornholm ...	1011·0	36	WSW	3	b	1009·6	-4	34	0	SSW	4	–	s	*	Trace	39	32				
FRANCE, &c.	The Helder ...	1015·1	46	W	2	b	1012·2	-2	45	+2	SW	4	–	o	2	Trace	46	43				
	C. Gris Nez ...	1018·0	46	SW	3	o	1016·4	-1	47	+2	S	3	*	o	2	–	52	45				
	La Hève							*					*									
	Brest (St. Mathieu)	1021·6	56	NNE	4	b	1018·8	-2	48	+2	NNE	3	*	b	2	–	59	43				
	Rochefort (Ile d'Aix)	1017·6	55	NW	3	b	1015·2	+1	51	+3	ENE	3	*	b	*	–	66	46				
	Biarritz												*									
	Paris	1018·6	59	N	2	bc	1017·6	-1	46	+1	NNE	1	–	b	*	–	66	37				
	Belfort							*					*		*							
	Lyons	1017·4	59	NNE	2	b	1017·4	*	51	+5	–	0	*	b	*	–	65	43				
	Nice	1017·0	53	–	0	b	1019·6	+2	54	+1	E	1	*	b	0	–	61	45				
	Perpignan ...	1015·4	68	–	0	b	?1016·4	+1	54	-3	SW	1	*	m	*	–	75	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1013·0	66	NE	5	bc	1011·9	0	55	0	–	0	S	bc	1	–	68	48				
	Madrid	1012·6	66	E	3	bc	1015·5	+1	55	+2	E	1	–	bc	*	–	70	48				
	Lisbon	1011·8	63	SSW	4	o	1011·9	+1	59	+2	ESE	1	–	p	2	Trace	72	57				
	Azores (Horta) ...	1008·6	*	NE	4	b	1012·3	+2	55	-2	N	2	*	b	1	3	63	55				
	Madeira	1010·7	63	SW	2	p	1010·7	0	59	-2	W	2	–	o	2	11	64	59				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1022·4	+3	59	+2	–	0	–	b	0	–	63	52				
	Limassol	*	*	*	*	*	1015·9	+2	66	+2	W	3	NW	bc	4	–	72	46				
	Alexandria ...	1018·6	63	N	4	b	1020·3	+2	64	0	NNW	3	NW	bc	2	–	73	59				
	Cairo (Helwan) ...	1016·2	66	N	3	b	1018·6	+3	61	-2	NNW	2	–	b	*	–	73	54				

LONDON OBSERVATIONS.

	Humidity. 15 h. 28th	Humidity. 9 h. 29th	Sunshine for 28th	24 Hours ended 9 h. 29th: Temperature. Max.	Temp. Min.	Temp. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	55	49	3·5	64	49	45	–	c	c.o	c
CITY (Bunhill Row)	*	*	5.6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	57	56		62	49	47	–	bc	bc	bc.b
CAMDEN SQ. (British Rainfall) ..	51	55	6·8	65	49	45	–	bc	bc	*
HAMPSTEAD (Reservoir)	*	64	8.7	61	46	39	–	c	bc.o	bc
S. KENSINGTON (Museum Grounds)	*	56	6·0	62	50	46	–	bc	bc.c	c.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 28th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1228	23·4	74·5

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

RAINFALL

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,248 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Monday 30th APRIL

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Sunday, 29th April, 1917.

Temperature touched or slightly exceeded 60° at some southern English stations and rose to 70° and above in France. Slight rain fell in the North of Ireland and Scotland, but generally the weather was dry and bright.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Sunday 29th April UP TO 17 H.

	STATIONS.	Sunshine for 28th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 29th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0.0	Trace	—	50	44	o.bc	bc.b	6.8
	Banff	0.0	Trace	—	48	43	c.bc	bc.b	8.7
	Montrose	2.0	—	—	58	46	b	b	8.8
	St. Andrews								
Eng. N.E.	Harrogate	2.9	—	—	53	44	o.c	c.o	1.6
	Skegness		—	—	60	43	o.bc	o	4.0
Eng. N.W.	Morecambe								
	Southport	0.3	—	—	53	47	bc.c.o	o.c.o	1.1
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl	2.0	—	—	55	46	o.c	c.bc.c	3.6
	Colwyn Bay	*	*	*	57	47	bc	b	3.5
	Llandudno	*	*	*	55	46	c	c	6.0
	Aberystwyth	*	*	*	50	44	o	o.c	4.0
England, E.	Lowestoft								
	Felixstowe	2.3	—	—	59	43	bc	bc	2.0
	Walton-on-Naze								
	Southend-on-Sea								
England, S.E.	Margate	*	*	*		48	c.b	b	10.2
	Hastings	6.2	—	—	57	49	bc.b	b	8.5
	Eastbourne	8.5	—	—	56	50	b	b	9.2
	Seaford								
	Brighton	6.2	—	—	54	46	bc	c.b	8.7
	Worthing	7.2	—	—	57	48	b	b	9.5
	Littlehampton								
	Bognor								
	Bournemouth	7.5	—	—	61	43	b	b	12.6
England, S.W.	Weymouth		*	*					
	Torquay		—	—	60	40	bc.b	b	11.5
	Paignton								
	Penzance								
	Newquay		—	—	53	33			9.2
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Sunday 29th April 1917

	STATIONS.	Evening of 28th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 29th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Gorki						1004.7	?	32	−7	W	1	b	—	*	28
	Velieki Luki	1002.2	34	SW	3	o	1006.0	*	37	−2	WSW	4	c	?	*	?
	Hangö	1005.5	28	—	o	c	1009.3	+3	19	−8	N	3	b	1	*	19
	Riga	1005.5	30	NNW	2	o	1010.9	+2	32	−2	NNW	2	bc	—	*	28
	Petrograd	999.5	28	WNW	3	o	1014.1	+3	23	−11	NW	4	s	—	39	23
	Moscow	1007.1	45	SSE	3	o	1002.4	+2	39	−12	SSE	3	o	—	*	37
	Kiev	1010.1	43	NW	2	o	1008.3	+3	36		NW	4	o	2	*	36
	Kharkov	1007.5	37	NE	2	r	1007.9	−1	41	+2	SSW	2	o	9	*	36
	Kishinev	1004.5	45	SE	2	o	1012.2	+4	41		NNW	2	o	9	*	37
	Elisabetgrad	1006.9	32	SE	2	s	1008.8	+2	39	0	NW	4	r	—	*	39
	Nicolaiev	1008.8	50	SW	4	o	1010.6	*	50	+13	S	3	o	2	*	—
	Odessa						1012.0	+4	45	+4	NNW	3	o	—	*	41
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1015.9	55	SSE	1	m	1019.1	*	57	+2	ESE	1	b	—	59	52
	Pesaro	1016.3	55	E	1	b	1019.4	*	59	+7	SW	2	b	—	63	48
	Rome	1019.1	55	—	o	c	1021.8	*	54	+2	—	o	b	—	66	47
	Viesti	1017.7	55	WNW	1	b	1021.3	*	55	+3	—	o	b	—	61	50
	Brindisi	1014.8	57	NW	1	b	1021.3	*	48	−2	—	o	b	—	59	48
	Cagliari	1019.0	63	NE	3	b	1019.0	*	63	+2	NW	3	b	—	66	55
	Palermo	1019.5	67	—	o	f	1021.3	*	?		—	o	?	—	70	45
	Tripoli						1019.4	*	61	0	—	o	b	—	70	50
	Algiers	1015.4	59	NE	3	o	1012.7	+1	61	+6	N	1	m	—	63	45
SWEDEN.	Hernösand	1009.8	27	—	o	b	1010.0	*	25	−2	—	o	b	*	*	*
	Stockholm	1010.2	32	N	2	b	1009.6	*	34	+4	SSE	2	b	*	*	*
	Wisby	1008.6	36	NNW	2	b	1009.5	*	36	+8	WSW	2	b	*	*	*

Morning of 29th

ICELAND	Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0-12.	Weather
Isafjord	1021.0	25	+2	N	3	c
Reykjavik	1013.3	28	0	E	4	s
Vestmanna						
Seydisfjord	1016.4	25	+4	NE	4	s
Thorshavn	1004.3	37	−4	N	5	c

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

30th April & 1st May 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.26	11.50	7.13
	4.24	11.50	7.16
Greenwich	4.37	11.57	7.17
	4.34	11.57	7.20
Wick	4.23	12.9	7.54
	4.20	12.9	7.58
Valencia	6.16	12.38	7.59
	5.13	12.38	8.2

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

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‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

THE MORNING OF Monday, 30TH APRIL, 1917.

GENERAL INFERENCE

The anticyclone off the SW. of Ireland will extend north-eastward and eastward.

HIGH

LOW

Barometer slowly rising generally

HIGH

LOW

HIGH

EXPLANATION.

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

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

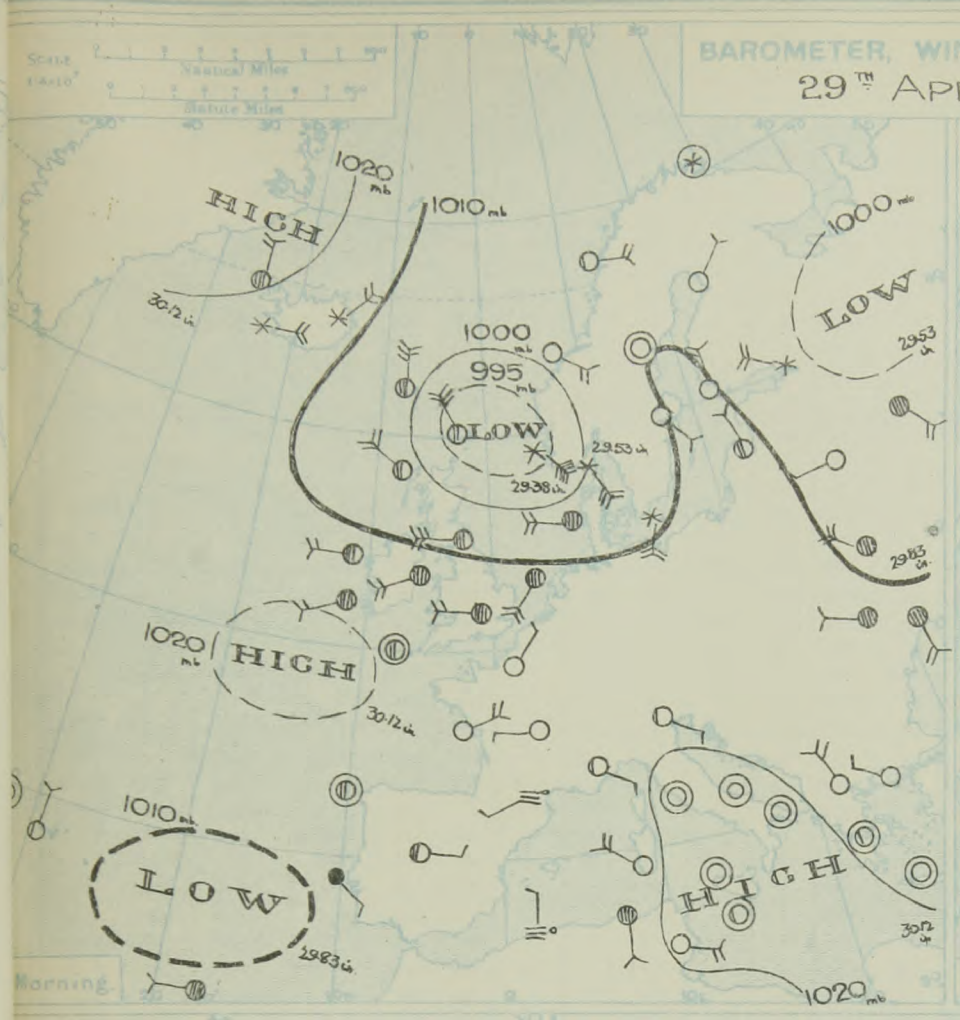
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

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

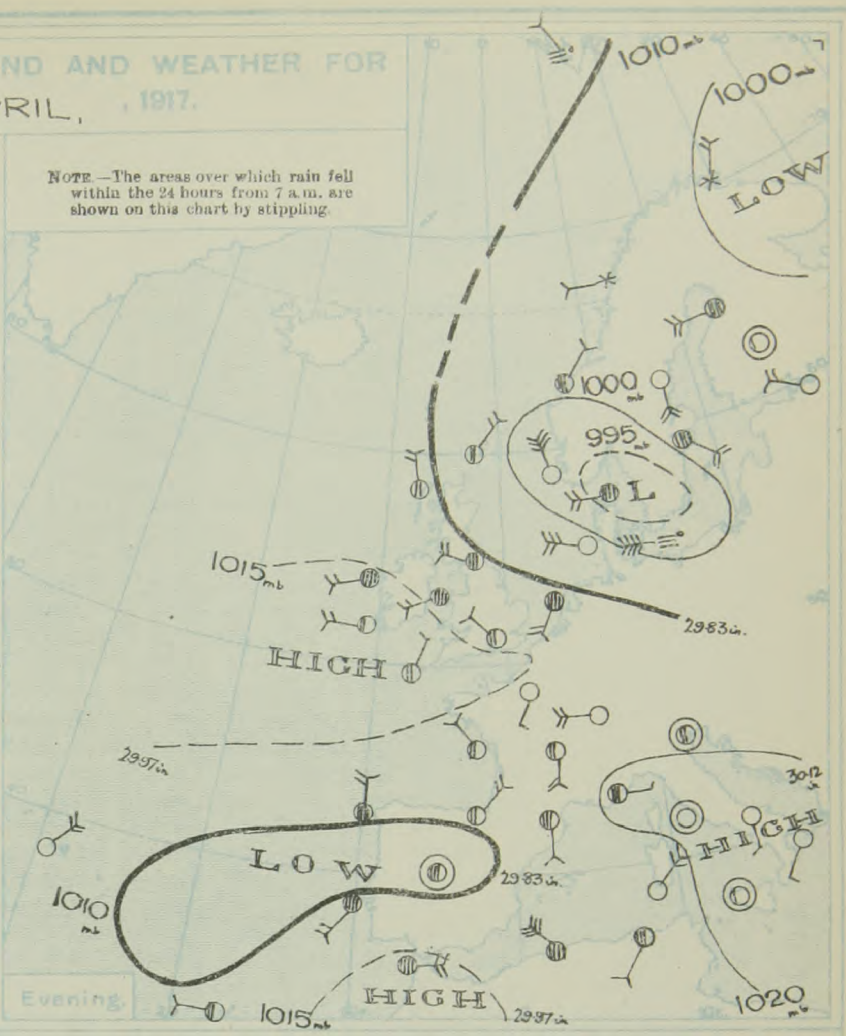
SEA DISTURBANCE.—Rough High.

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

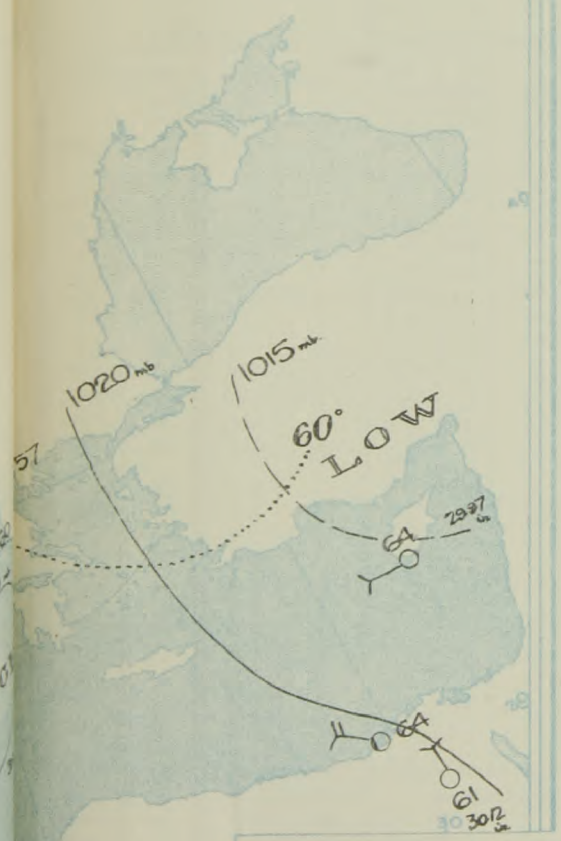
BAROMETER, WIND AND WEATHER FOR 29TH APRIL, 1917.



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



FORECASTS NOON MONDAY TO NOON TUESDAY



Western Channel and Bay. 11

Wind light, variable locally, but mainly between NW. and SW. Fair, generally, cloudy or overcast at times. Temperature becoming higher.

N. and NE. winds light; sea smooth; fair

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 120. Monday, 30th APRIL.

	STATIONS	Evening of 29th. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 30th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. °F. Dry Bulb.	Temp. °F. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 A.M. Rainfall. Millimetres.	Temp. °F. Max.	Temp. °F. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 29th. Hours.
BRITISH ISLANDS.	Lerwick ...	1007·1	42	NE	3	bc	1012·1	+1	40	0	—	0	—	bc	0	1	43	33	bcp	bc	bcx	*
	Deerness (Orkney)	1008·1	40	NW	3	cp	1011·8	*	42	0	E	2	N	bc	1	2	45	36	bc	c.cp	cp.c.bc	9·7
	Stornoway ...	1011·1	45	NNW	4	bc	1012·3	+2	40	-1	NW	2	—	bc	2	1	48	37	bc	bc	bcp	12·2
	Castlebay (Barra Isd.)																					
	Glasgow ...	1011·3	50	W	3	c	1015·0	+2	44	-2	SW	2	—	o	*	0·3	53	39	cp.c.bc	c.bc.c	c.bc.bc	6·0
	Eskdalemuir ...	1011·2	48	W	4	c	1015·9	+2	44	-1	SW	2	—	o	*	—	53	38	ors	o.c.bc.c	bc.c.o	2·0
	Malin Head ...	1013·0	46	SW	3	cm	1015·4	*	46	0	WSW	3	—	cm	3	2	47	44	fd	cm	cmp	0·0
	Blacksod Point	1015·6	48	WSW	3	cm	1017·5	0	48	+1	SW	2	W	cmp	2	0·1	53	45	cx	cx	cm	*
	Valencia (Cahirciveen)	1018·7	53	W	3	bcx	1020·6	+2	49	-1	—	0	NW	cz	3	—	55	46	c.c	bcz	c.cx	7·1
	Roche's Point	1017·7	53	NW	3	o	1020·2	*	48	-1	NW	2	—	o	2	—	57	47	o	c.o	o.c.o	*
	Birr Castle ...	1016·2	52	W	2	c	1018·5	*	49	0	W	1	—	o	*	—	58	47	c	c	c.o	5·3
	Donaghadee ...	1018·3	44	ESE	1	cmr	1015·4	+3	48	0	W	2	—	cm	1	2	55	44	cgmq	cgmr	cr.cfd	*
	Liverpool (Bidston)	1013·6	54	WSW	3	bc	1017·0	+2	48	+2	WSW	2	W	o	3	—	56	45	b	o.bc	o	5·1
	Holyhead ...	1014·5	51	WSW	3	cg	1017·5	+3	47	+1	WNW	5	NW	cmg	4	—	59	46	c.c.bc	bc.c.o	o.c.o	7·7
	Pembroke (St. Ann's)	1017·0	47	SW	3	bc	1019·0	+3	48	+2	NW	3	NW	c	2	—	49	45	c	bc	c.o	5·5
	Scilly (St. Mary's)	1018·9	52	NNE	1	bc	1019·3	0	49	+1	NNE	1	—	bm	2	0·2	55	44	bc	bc	bwm	9·7
	Falmouth ...	1017·5	53	NW	3	b	1019·2	+2	48	+3	NW	2	NW	c	*	—	59	43	b.bc	b	b.bc	12·4
	Jersey (St. Aubin)	1016·6	53	NW	2	b	1017·7	*	48	0	N	2	—	b	1	—	57	45	b	b	b	11·7
	Portland Bill ...	1015·9	48	WSW	4	b	1017·6	+2	50	+2	W	1	—	b	2	—	52	45	b.bc	bc.b	bc.b	*
	Dungeness ...	1014·3	49	W	4	b	1017·3	+2	50	+1	WNW	2	—	b	1	—	54	38	b	bc	c.b	*
	Dover	1014·4	56	-	0	b	1017·2	+2	47	-6	—	0	—	b	2	—	57	39	c.bc.b	b	b.bc	9·3
	Wick	1009·1	43	NW	4	bc	1012·7	+2	41	-1	S	2	—	bc	2	—	46	32	cmq	c.bcmq	bc	*
	Nairn	1009·6	48	NW	3	bc	1012·4	*	43	-2	WNW	2	—	bc	2	0·2	51	34	cq.bc	bcq	bcp	10·3
	Aberdeen ...	1009·6	49	NW	4	b	1013·8	+1	46	+1	SSW	3	W	b	2	0·3	51	40	bcpq	bcq.b	b.bc.b	10·3
	Leith	1009·5	54	NW	3	bc	1013·9	+2	45	-3	W	1	—	o	2	—	56	42	o.c.bc.b	b	bc.bmo	*
	Tynemouth ...	1010·1	54	WNW	3	cq	1015·4	+2	47	-1	W	2	NW	cm	3	—	56	43	amq	oq	bcm	*
	Spurn Head ...	1012·7	54	NW	6	bcq	1016·8	+2	47	0	WNW	2	—	bcm	3	—	56	45	bcq	bcq	cq	7·0
	Yarmouth (Gorleston)	1012·8	56	WNW	2	c	1016·6	+2	51	+3	NNW	1	—	cm	1	—	59	47	cm	bcm	cm	1·9
	Clacton-on-Sea	1014·5	56	WNW	3	c	1017·3	+2	50	0	W	1	W	c	0	—	61	48	c.bc	bg.c	c	3·3
	Nottingham ...	1013·7	55	W	4	b	1017·1	*	44	-5	WSW	1	W	om	*	—	58	40	o.c	c.b	b	4·6
	Benson (Oxon.) ...	1014·7	58	NNW	2	bc	1017·0	+3	48	-1	—	0	—	c	*	—	59	36	bc	bc	bc	*
	Sth Farnborough	1014·0	58	NW	2	b	1017·1	+2	46	-4	WNW	1	+	bcz	*	—	62	37	bc	b.bc.b	bc.bcx	10·3
	London (Kew Obsy.)	1014·6	59	NW	2	bc	1017·9	+2	47	-4	WSW	1	NE	cm	*	—	60	42	am.o.c.bc	bc	bc.o.cm	9·6
NORTHERN EUROPE.	Spitsbergen ...	1014·4	7	NNW	2	m	1018·2	+2	-6	-	—	0	*	b	*	*	10	-15				
	Vardö	999·4	23	NNE	3	s	990·0	-5	30	+1	NNW	3	—	o	4	*	30	18				
	Bodö	1003·9	30	W	2	s	1004·6	+1	28	+5	N	1	—	b	1	?	30	21				
	Christiansund ...	1000·6	39	NE	2	c	1009·2	+2	37	+5	NE	2	—	c	3	2	41	30				
	Skudesnaes ..	1001·1	39	NNW	6	b	1011·8	+5	39	+5	N	4	—	b	3	Trace	39	27				
	Færder (X'laniaFjord)	997·2	34	N	5	o	1009·2	+3	36	+4	SSE	3	N	m	3	8	34	25				
	The Scaw (Skagen)	994·8	39	W	4	o	1009·2	+6	39	+3	NW	3	NW	c	3	6	45	34				
	Blaavands Huk	1004·7	43	WNW	5	b	1013·9	+2	41	-2	NNW	3	—	c	?	—	46	37				
	Copenhagen ...	1000·4	45	WNW	5	o	1010·4	+5	41	+5	NW	4	—	c	*	4	48	34				
	Bornholm ...	999·4	39	W	8	m	1008·6	+4	37	+3	NW	7	—	b	2	5	39	34				
FRANCE, &c.	The Helder ...	1012·4	46	SW	3	o	1015·5	+1	45	0	W	1	—	o	1	—	48	45				
	C. Gris Nez ...	1014·7	49	SW	3	b	1017·0	+2	47	0	SW	1	*	bc	0	—	54	43				
	La Hève	1015·4	50	NNW	3	b	1017·0	*	43	-	—	0	*	m	0	—	55	41				
	Brest (St. Mathieu)	1017·4	47	NNE	4	b	1019·4	+2	46	-2	NNE	3	*	bc	2	—	63	45				
	Rochefort (Ile d'Aix)	1013·2	61	NW	2	bc	1014·2	+1	54	+3	ENE	2	*	bc	*	—	72	48				
	Biarritz	1010·3	62	NE	3	bc	1013·0	+1	64	—	SSE	1	*	b	0	—	73	57				
	Paris	1013·5	64	SSW	1	b	1016·0	+1	50	+4	NNE	2	—	b	*	—	70	43				
	Belfort	1014·7	64	W	4	b	1017·2	*	56		W	4	*	c	*	—	71	47				
	Lyons	1013·5	67	S	3	bc	1016·7	*	51	0	—	0	*	bc	*	—	74	47				
	Nice	1020·5	53	*	0	c	1019·6	0	55		—	0	*	bc	5	—	61	45				
	Perpignan ...	1013·9	66	S	2	c	1017·2	+2	58	+4	E	2	*	o	*	—	77	54				
	Sanguinaire ...	1019·4	59	E	1	m	1017·4	*	57		E	1	*	o	1	—	64	50				
SOUTHERN STATIONS.	Corunna	1011·8	57	N	3	o	1014·4	+3	55	0	NE	2	SW	o	1	—	61	54				
	Madrid	1009·9	70	-	0	c	1014·7	+1	55	0	E	1	E	c	*	?	72	50				
	Lisbon	1011·0	63	SW	3	o	1010·7	0	57	-2	ENE	2	—	r	2	9	64	55				
	Azores (Horta) ...	1013·9	*	NE	4	b	1017·5	+1	59	+4	SSE	2	*	c	2	—	66	56				
	Madeira	1011·1	64	W	2	bc	1013·2	0	57	-2	NW	2	—	b	2	—	64	57				
	Gibraltar	1016·2	58	E	4	o	1014·5	*	58	—	E	4	*	c	4	5	65	57				
	Malta	*	*	*	*	*	1025·2	+6	61	+2	SE	3	—	c	2	—	66	57				
	Limassol	*	*	*	*	*	1015·5	0	64	-2	W	2	—	b	2	—	72	46				
	Alexandria ...	1021·2	63	NNW	3	c	1020·7	0	64	0	NW	3	N	b	2	—	73	61				
	Cairo (Helwan) ...	1019·9	64	N	3	b	1020·3	+1	61	0	N	2	—	b	*	—	73	52				

LONDON OBSERVATIONS.

	Humidity. 15 h. 29th	Humidity. 9 h. 30th	Sunshine for 29th	24 hours ended 9 h. 30th. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	49	48	7·8	62	39	28	—	c	bc.b	bc.om
CITY (Bunhill Row)	*	*	7·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	50	56		62	41	40	—	bc	bc	bc.om
CAMDEN SQ. (British Rainfall) ..	?	53	7·6	64	43	36	—	—	—	*
HAMPSTEAD (Reservoir)	*	57	7·2	59	44	27	—	bc	bc	bcx
S. KENSINGTON (Museum Grounds)	*	53	7·8	61	46	34	—	o.bc	bc	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 29th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1519	28.9	80

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

RAINFALL.

Equivalents of Millimetres in Inches.

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

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