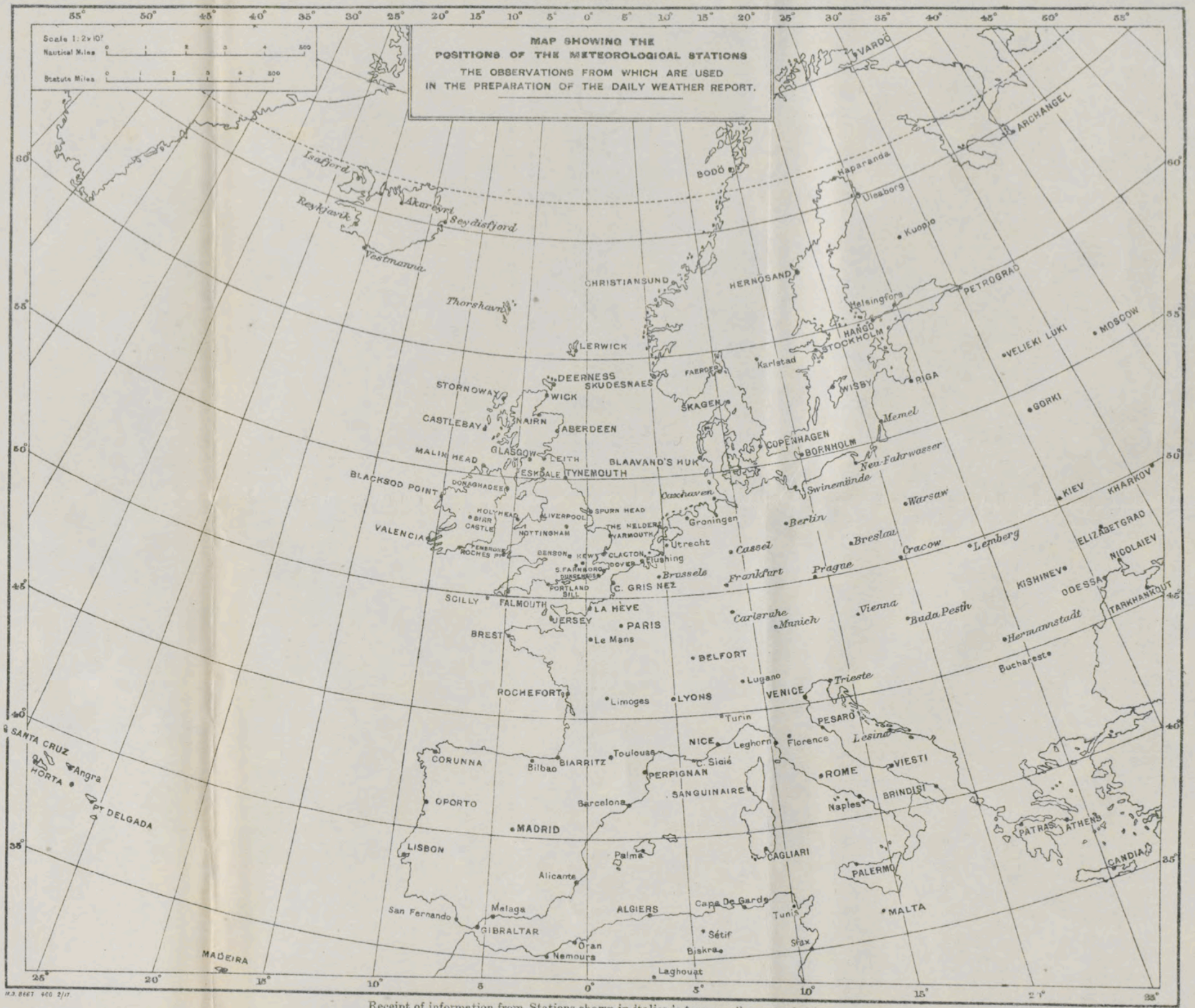
M.O. Form 2610.

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1st JANUARY TO 30th JUNE, 1916.

DAILY WEATHER REPORT, JANUARY—JUNE, 1916.



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

H.S. 8667 400 2/17.

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

DAILY WEATHER REPORT. APPENDIX I.

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 SUNSH'NE. 1881–1915.	
			Means of			Absolute Extremes.							
			1906–1915.	1881–1915.		1881–1915.							
						Maximum.		Minimum.					
		7 a.m. Observations (reduced to M.S. Level).	Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	Days with Rain.	Total Fall.	Daily Mean.	Per Centage of Possible Duration.
		mb.	°F.	°F.	°F.	°F.		°F.			mm. in.	hr	%
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 1·63	[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	30·5	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]‖	[23]‖	[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]†	[1900, 02]†	11	40 1·59	—	—
	Dungeness	1015·0	51·2	57·8	46·1	76	1892, 1913	30	1892, 1902	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	61·4	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	61·6	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.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 92. { Saturday 1st April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					↕	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1011·2	43	NNE	2	om	1015·4	+1	45	+2	WSW	4	-	me	3	7	46	40	op fe	fe	omd	*
	Deerness (Orkney)	1014·9	47	SW	5	dim	1017·6	*	46	+1	SW	4	-	od	3	7	48	45	c.od	od.om	mod	0·0
	Stornoway ...	1016·5	50	WSW	6	odq	1018·8	+1	48	-1	WSW	6	-	odq	5	1	50	48	odrq	odq	odq	0·0
	Castlebay (Barra Isd.)	1020·4	46	SW	5	opm	1021·6	+1	47	-1	SW	5	-	opm	5	0·1	49	46	opm	opm	opm	0·0
	Glasgow ...	1023·7	50	WSW	4	0	1025·7	+2	43	-2	SW	1	-	0	*	0·1	51	42	oc.om	0	o.bc.c.o	0·3
	Eskdalemuir ...	1025·6	45	S	3	0	1026·9	+2	37	-5	SSE	2	w	bc	*	-	50	34	opc.bc	0	o.c.bcm	1·4
	Malin Head ...	1023·0	48	WSW	5	omq	1024·2	+1	43	-4	SW	3	w	cm	3	-	51	43	bcmq	bcmq	cm	0·9
	Blacksod Point	1028·9	48	SW	6	cm	1024·0	0	45	-2	SW	5	SW	bcm	4	-	50	44	cm	cm	bc.bcm	*
	Valencia ...	1028·1	50	SSE	3	bc	1027·5	0	46	-1	S	3	S	c	4	-	54	44	b.bc	c.bc	bc.b.bc	10·6
	Roche's Point	1030·2	49	SW	3	b	1029·4	*	43	-3	SW	1	W	b	2	0·2	52	42	bc.b	bc.b	bo	*
	Birr Castle ...	1027·3	52	W	2	c	1028·1	*	34	-13	S	1	S	bc	*	-	57	33	c	c	bcx	6·6
	Donaghadee ...	1026·0	53	W	4	cgm	1026·7	0	41	-5	SW	3	-	bcm	2	-	57	40	bcm	bcm	bcm	*
	Liverpool (Bidston)	1028·5	47	WSW	3	bc	1028·9	0	41	-5	SW	2	-	b	2	-	54	40	c	0	b	0·1
	Holyhead ...	1028·2	46	SW	5	bz	1028·5	+1	43	-1	SW	3	-	fe	2	Trace	50	41	o.c	o.c.bc	bofe	0·1
	Pembroke (St. Ann's)	1030·7	46	W	3	b	1029·8	0	44	-2	W	1	W	c	1	-	49	43	c.bc	bc	bv	8·6
	Scilly (St. Mary's)																					
	Falmouth ...	1030·6	50	NNW	1	b	1029·7	-1	37	-7	NNW	2	-	bx	*	-	53	35	b.oc.ac	c.bc.b	bx	9·5
	Jersey (St. Aubin)	1030·5	49	N	3	b	1027·8	*	45	+1	NNE	3	-	bm	3	-	53	43	ac.o	bc.b	bm	5·2
	Portland Bill ...	1030·9	47	WNW	2	c	1028·7	-2	45	0	N	1	-	b	2	-	49	43	bc.c	bc	bc.b	*
	Dungeness ...	1030·1	48	NNW	2	c	1028·0	-1	39	-1	NNW	2	-	b	1	-	52	34	bc	bc.c	b.bxz	*
	Dover	1030·3	48	-	0	c	1028·9	0	45	-1	N	2	-	bz	2	-	53	37	b.bc	bc.c	bz	6·9
	Wick	1015·3	50	WSW	4	c	1019·0	0	48	+3	WSW	3	W	c	2	0·1	52	45	pdcq	cq mg	bcmcg	*
	Nairn	1018·9	50	W	3	cg	1020·6	*	48	0	W	6	-	cq	3	0·1	53	46	cq g	cq u	cq p	0·9
	Aberdeen ...	1019·0	52	WSW	3	0	1021·7	+1	48	-2	SSW	1	W	bcz	2	-	53	44	oz	0	o.c.bcz	0·0
	Leith	1023·2	52	W	2	c	1025·0	+1	45	-2	W	2	W	bc	3	-	54	43	c.oq.c	c.o.c	c.o.bc	*
	Tynemouth ...	1024·9	53	W	4	bcmq	1026·7	+1	40	-6	WSW	3	W	bcm	2	-	37	39	bcmq	bcmq	bcm	*
	Spurn Head ...	1028·4	47	WNW	4	cm	1030·4	0	41	-1	W	2	-	bc	3	-	53	38	c	cm	bc	2·4
	Yarmouth ...	1029·4	52	WNW	2	bc	1028·3	0	41	-2	NW	2	-	bcm	2	-	56	39	bcm	bcm	bc.bcm	5·2
	Clacton-on-Sea	1030·3	51	WSW	1	c	1029·7	0	41	+1	NW	2	-	b	1	-	53	37	cm.o	o.c	c.bc.b	0·1
	Nottingham ...	1028·7	52	W	3	c	1029·1	*	36	-9	W	1	-	bm	*	-	55	35	c.o	c.o	o.b	2·0
	Benson (Oxon.) ...	1030·0	50	WSW	1	0	1029·6	0	41	-2	-	0	-	o	*	-	52	37	c.o	o	c	*
	Sth Farnborough	1029·9	51	W	2	0	1029·3	0	34	-10	W	1	-	m	*	-	34	31	o	o.c.o	om.bm	0·5
	London (Kew Obsy.)	1030·4	52	NW	2	0	1029·7	0	34	-10	-	0	-	fx	*	-	51	32	om.o	0	o0m.fx	0·9
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (Christiania fjord)																					
	The Scaw (Skagen)	1016·3	41	WSW	5	bc	1017·5	+2	41	0	W	5	-	f	5	-	48	39				
	Blaavands Huk	1024·7	41	W	3	c	1024·2	+1	39	0	W	3	-	0	2	-	41	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...																					
	C. Gris Nez ...	1030·0	48	SSW	1	bc	1028·4	-1	43	-2	E	3	*	m	1	-	52	41				
	La Hève	1029·2	45	NNE	2	m	1027·0	*	39	-1	NE	2	*	b	1	-	50	36				
	Brest (St. Mathieu)	1030·3	60	NE	3	bc	1028·4	-1	39	-9	ESE	2	*	b	2	-	54	39				
	Rochefort (Ile d'Aix)	1026·7	54	NE	5	b	1022·4	-1	45	+4	NE	6	*	b	*	-	61	41				
	Biarritz	1023·3	58	WSW	2	c	1020·6	0	51	+10	W	3	*	bc	2	-	52	44				
	Paris	1028·2	52	NE	2	b	1025·7	0	39	+7	NNE	2	-	b	*	-	59	32				
	Belfort	1027·1	47	ENE	6	m	1024·4	*	39	+8	ENE	6	*	m	*	-	54	34				
	Lyons	1028·4	52	-	0	b	1022·1	*	39	+3	-	0	*	b	*	-	55	36				
	Nice	1016·7	61	S	2	b	1016·7	+3	61	+1	SE	1	*	bc	3	-	72	54				
	Perpignan ..	1018·3	52	WNW	3	0	1018·3	-3	54	+8	WNW	2	NE	r	*	-	54	34				
	Sanguinaire ...	*	58	E	3	0	*	*	57	+1	SSE	5	*	0	4	-	59	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1024·8	55	NE	6	b	1021·0	-3	46	+1	SSW	1	-	b	1	?	55	43				
	Madrid (8 a.m.)	1014·9	55	NNE	4	bc	1018·9	+2	50	+11	-	0	-	0	*	Trace	57	39				
	Lisbon (7 a.m.)																					
	Gibraltar	1016·6	52	NW	5	b	1014·5	*	53	+4	W	4	*	0	1	-	61	48				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·9	+1	61	+2	E	3	-	b	2	-	64	59				
	Azores (Horta, 8 a.m.)	1010·0	*	SW	5	f	1011·8	0	59	0	SSW	4	*	0	3	-	66	59				
	Madeira (Funchal)	1021·0	61	NE	2	0	1019·7	0	59	+5	NE	2	-	bc	2	-	63	54				
YESTERDAY'S REPORTS		March 30th 8 P.M. G.M.T.					...31st March..., 7 A.M. G.M.T.															
ITALY.	Venice	1024·6	51	NNE	2	bc	1024·6	+2	52	0	-	0	*	b	4	1	*	*				
	Turin	1028·5	48	-	0	0	1026·6	.	48	+5	-	0	*	bc	*	-	*	*				
	Viesti	1020·2	56	-	0	0	1021·5	.	59	-4	NW	2	*	b	2	-	*	*				
	Pesaro	1024·0	53	-	0	b	1025·2	+2	52	-3	WSW	3	*	bc	4	1	*	*				
	Leghorn	-	-	-	-	-	1020·2	+1	55	+1	E	3	*	b	5	18	*	*				
	Rome	1019·9	57	SE	2	b	1018·4	-	57	+3	N	2	*	b	*	-	*	*				
	Brindisi	1020·1	55	-	0	b	1020·4	-	54	0	NW	5	*	b	3	-	*	*				
	Cagliari	1013·2	52	-	6	0	1012·1	-	54	0	ENE	5	*	0	2	-	*	*				
	Palermo	-	-	-	-	-	1014·8	-	56	-5	S	3	*	b	2	-	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7:0... a.m.

10,000 feet.	E by S.	3	m.p.h.
8,000 . .	Calm	0	"
5,000 . .	N. by E	6	"
3,000 . .	E by N	4	"
2,000 . .	NE by N.	3	"
1,000 . .	N	10	"
Surface. .	NW	4	"

RAINFALL

Equivalents of Millimetres in Inches.

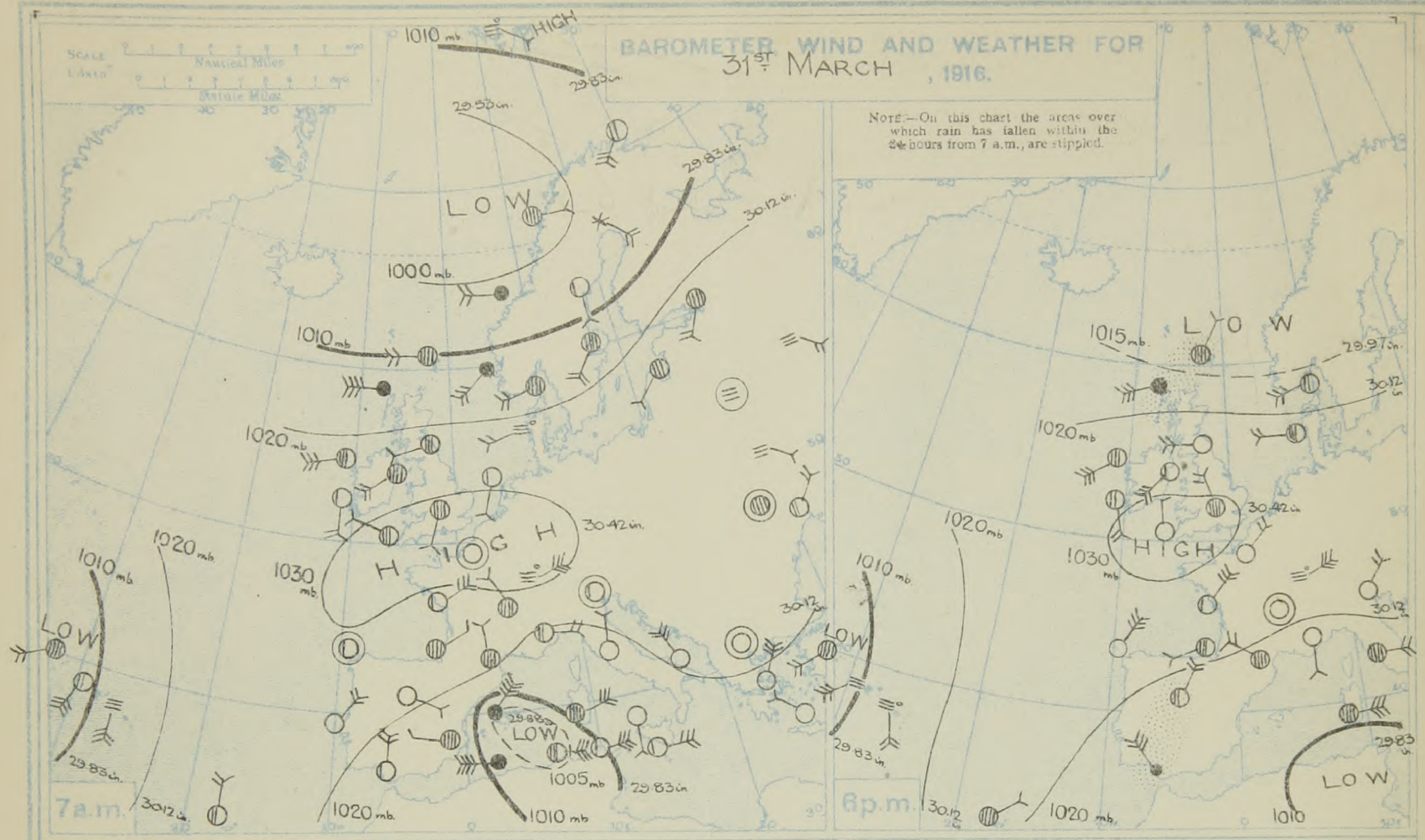
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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

BAROMETER WIND AND WEATHER FOR 31ST MARCH, 1916.

Scale Miles: Nautical Miles / Statute Miles

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b	Moderate or fresh Westerly winds, then decreasing; unsettled, some rain and mist then improving; mild.
1	
2 a, b	Calms or light variable winds; fair or fine, some mist; cold at night.
3	Light winds between North and East; fair, misty;
4	rather cold.
5	
6	Moderate South-Westerly winds decreasing; dull, some rain then improving; mild.
7	Same as No. 2.
8	Light Easterly winds; fair or fine; some mist; cooler.
9 a	Light Southerly or South-Easterly winds; fair,
10	misty; normal temperature.
11 Western Channel and Bay	Light Easterly winds and slight sea; fine.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m. SATURDAY 1ST APRIL, 1916.

GENERAL INFERENCE.

The Anticyclone will

continue to move slowly Northward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

LOW

1015 mb

Bar rising

Slightly

1020 mb

1030 mb.

HIGH

30.42 in.

40°

1025 mb

Barometer stationary almost

30.27 in.

30.12 in.

50°

60°

Bar. falling

1020 mb

1015 mb

L O W

29.97 in.

1015 mb.

L O W

Scale 1:2·10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

Issue No. 14,854

DAILY WEATHER REPORT.

Saturday, 1st April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	3rd... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	31st... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min
		°F.						°F.	F.								
Archangel	1014·3	36	S	4	c	-	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Helsingfors ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Hangö	1020·0	32	WSW	3	c	1016·0	+3	34	0	SSW	6	*	0	?	—	*	*
Riga	1021·6	36	–	0	b	1025·1	0	32	-4	SW	2	*	c	?	—	*	*
Petrograd	1021·0	37	SW	3	c	1022·9	0	30	-6	SSW	3	SW	0	*	—	39	28
Moscow	1031·5	32	SE	3	0	1028·6	+2	32	0	SE	2	*	p	*	—	*	32
Kiev	1024·7	45	E	2	fr	1024·4	0	34	-11	ESE	2	0		*	–	*	34
Kharkov	1028·4	43	E	2	b	1029·0	0	36	.	ESE	2	*		*	–	*	*
Kishinev	1023·0	54	E	4	b	1025·0	+2	46	+7	–	0	*		*	–	*	49
Elisabetgrad ...	1025·9	45	NE	3	bc	1025·0	+1	41	-4	E	2	*	c	*	2.	*	41
Nicolaiev	1022·4	46	NE	2	0	1022·6	*	39	-6	NNE	3	*	b	?	1	*	39
Odessa	1023·4	46	SE	2	b	1023·4	+1	45	+2	ENE	2	*	b	?	–	*	43

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

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	47	43	0	0	0·0
	Banff	–	56	44	bc	bc	1·1
	St. Andrews	–	53	45	*	*	0·2
Engl. N.E.	Harrogate	–	56	41	bc b	bc c	5·5
	Skegness						
Engl. N.W.	Morecambe						
	Blackpool						
	Southport	–	51	43	0	0	0·0
Midlands	Buxton						
	Leamington Spa	–	55	42	c bc c	c bc c	2·5
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	–	54	46	0	0	0·0
	Colwyn Bay	–	55	48	bc	bc	0·5
	Llandudno	–	51	44	c	c	0·0
	Aberystwyth	–	47	43	0 c 0	c b	2·5
	Tenby	–	55	49	bc	bc b	4·9

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	–	57	39	bc c	c bc, c	4·8
	Felixstowe	–	54	36	cm. bc	bc	1·9
	Walton-on-Naze						
	Southend-on-Sea	–	52	38	0	0g	0·0
England, S.E.	Margate	–	54	38	bc	c	5·8
	Ramsgate	–	55	36	bc	3	4.1
	Hastings	–	51	39	b. bc	bc	3.1
	Eastbourne	–	53	40	bc b bc	0	2·6
	Seaford						
	Brighton						
	Worthing	–	50	34	c	c	0·0
	Littlehampton	–	47	37	0	0 . b . 0	0·3
	Bognor						
	Southsea						
	Bournemouth	–	54	42	0	0 b	1·6
England, S.W.	Weymouth	–	54	44	0 c	c3	0·1
	Torquay	–	52	44	0 . c	c bc b	1·3
	Paignton						
	Penzance	–	57	40	c bc	bc . b	5·4
	Newquay	*	52	43	c bc	b	6·2
	Ilfracombe	–	52	44	0	c . bc . b	3·5
	Weston-super-Mare ...	–	54	42	c bc	c bc	2·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	64	76	0·6	54	32	26	–	c.o	o	o. bm
City (Bunhill Row)	*	*	0·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	64	71		35	32	32	–	o.c	bcm	m.b.
Camden Sq. (Brit. Rainfall)	57	72	0·0	35	33	29	–	o	o	*
Hampstead (Reservoir) ...	*	64	0·3	49	40	22	–	bc	bc	b.o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	60	81	1·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
787 Joules	17·1 Milliwatts.	112 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	55	44	33	0	0.c.0	0	*

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

1st & 2nd April... 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5.30 / 5.28	11.57 / 11.57	6.24 / 6.26
Greenwich	5.36 / 5.36	12.4 / 12.4	6.30 / 6.32
Wick	3.42 / 5.40	12.16 / 12.16	6.50 / 6.52
Valencia	6.19 / 6.17	12.46 / 12.46	7.11 / 7.13

NOTES ON YESTERDAY'S WEATHER.

The day was practically rainless except in the extreme North. Moderate sunshine was experienced in some places, but in others the weather was dull. A good deal of mist was reported.

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

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

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

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

‡ The barometric change is expressed in half-millibars

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 93. Sunday. 2nd April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1018·5	46	SW	4	cm	1019·1	0	45	0	SW	3	SW	c	3	2	47	44	fe	m	om.c	*
	Deerness (Orkney)	1020·3	47	SW	4	c	1020·0	*	43	-3	S	1	W	.b	2	1	50	40	od.o	o.c	c.bc.bw	0·8
	Stornoway ...	1020·2	47	SW	6	oq	1018·8	0	45	-3	SSW	6	-	cq	5	0·2	51	44	od oq	o.c.oq	oq	0·4
	Castlebay (Barra Isd.)	1021·8	47	SSW	5	om	1020·0	-1	45	-2	SSW	4	Sw	o	5	-	48	44	opm	om	om.b.o	0·2
	Glasgow ...	1024·7	49	WSW	1	c	1023·8	-1	35	-8	E	1	-	b	*	Trace	53	33	om.c.bc	b	bc.bmx	5·0
	Eskdalemuir ...	1025·5	47	WSW	1	b	1025·6	-1	26	-11	-	0	-	bx	*	0·2	53	21	bc.b.bc	bc.b	b.bx	9·5
	Malin Head ...	1024·2	47	SW	1	bcm	1020·7	-1	41	-2	S	1	-	bz	2	-	53	39	bcm	bcm	bz	6·9
	Blacksod Point	1022·4	47	SW	4	bc	1019·4	-2	43	-2	SW	4	SW	bc	3	-	48	41	cm	bc	bc	*
	Valencia ...	1025·0	46	S	3	bc	1021·2	-1	45	-1	SE	3	S	o	*	-	52	43	c	c.bc.b.bc	bc.c.o	7·1
	Roche's Point	1026·6	47	S	2	b	1023·5	*	43	0	S	1	-	o	1	Trace	50	38	b	b	b.ow	*
	Birr Castle ...	1024·7	55	S	1	b	1022·8	*	32	-2	S	1	-	m	*	-	61	30	b	b	bcx.f	11·3
	Dc aghadee ...	1024·7	49	SSW	4	bcz	1023·2	-1	38	-3	S	3	-	f	2	-	58	37	bcz	bcz	bcz.bm	*
	Liverpool (Bidston)	1026·8	44	NW	1	b	1024·2	-1	33	-8	ESE	1	-	f	1	-	50	31	b	b	bx.f	11·3
	Holyhead ...	1026·5	46	SW	5	bz	1023·0	0	35	-8	ENE	2	-	bm	1	Trace	50	35	oc.bc.b	b	bf.bx	7·7
	Pembroke (St. Ann's)	1026·0	45	N	3	b	1022·9	0	40	-4	ENE	3	-	b	2	-	49	38	b	b	b	10·0
	Scilly (St. Mary's)																					
	Falmouth ...	1025·1	47	SE	1	b	1021·7	-2	40	+3	NNE	2	-	bx	*	-	52	36	b	b	bx	11·6
	Jersey (St. Aubin)	1023·5	52	ENE	3	b	1020·3	*	45	0	E	2	-	bm	1	-	56	43	b.bc	b	bwm	11·5
	Portland Bill ...	1025·2	48	NW	1	b	1021·9	-1	45	0	ENE	3	-	b	3	-	53	43	b	b	b	*
	Dungeness ...	1025·3	48	NE	3	bz	1022·0	0	46	+7	E	3	-	b	3	-	52	38	bcz	bcz	bc.b	*
	Dover	1025·7	45	NNE	4	b	1023·4	0	47	+2	NE	3	-	b	2	-	55	44	bz	bz	bw	
	Wick	1021·1	48	WSW	2	c	1019·9	-1	43	-5	SSW	2	-	b	2	-	53	38	cmg	cmg	c.bc	*
	Nairn	1022·3	47	W	2	cg	1021·1	*	42	-6	-	0	-	bc	1	-	53	37	c.bcq	cg.o	c.bcx	0·0
	Aberdeen ...	1022·2	55	W	3	b	1022·1	-1	36	-12	WNW	1	-	b	1	-	65	32	bcz.b	b	bw.zx	8·8
	Leith	1024·3	53	W	2	bc	1023·5	0	38	-7	SW	1	-	bc	2	-	57	36	b	b	bc	*
	Tynemouth ...	1025·4	55	NW	2	bm	1024·5	-1	37	-3	S	2	-	bf	2	-	58	35	bm	bm	bm	*
	Spurn Head ...	1026·7	49	S	2	bc	1025·8	-1	41	0	S	1	-	bx	2	-	53	38	bc	bc	bc	8·0
	Yarmouth ...	1026·5	46	E	1	b	1025·4	0	41	0	ENE	1	-	bm	1	-	55	36	bm	bm	bm	9·2
	Clacton-on-Sea	1026·8	47	E	2	b	1024·5	0	43	+2	N	2	-	b	3	1	54	40	b.bc	bc.b	bm	11·3
	Nottingham ...	1025·6	55	SSW	1	b	1024·8	*	33	-3	-	0	-	fe	*	-	60	32	bm	bm	bm	10·0
	Benson (Oxon.) ...	1025·6	54	NNE	1	b	1023·7	-1	37	-4	N	1	-	b	*	-	56	35	b	b	b	*
	Sth Farnborough	1025·1	52	NE	1	bz	1022·8	-1	40	+6	ENE	2	-	bz	*	-	56	34	bz	bz	bz.w	10·1
	London (Kew Obsy.)	1025·8	51	ESE	2	b	1023·5	0	41	+7	ENE	2	-	bmx	*	-	55	33	ofx.om.b	bm	bm.bmx	9·5
NORTHERN EUROPE.	Spitsbergen ...	1004·7	-19	ESE	2	f	1006·1	+2	-26	0	-	0	*	b	*	*	-13	-33				
	Vardö	1013·7	16	W	1	b	1005·5	-5	19	-4	SW	7	-	c	4	*	23	16				
	Bodö	1014·3	30	E	4	c	1009·9	-1	36	+6	W	1	-	o	1	*	36	27				
	Christiansund	1017·6	39	SW	1	c	1011·7	0	45	+8	SW	5	-	r	4	21	45	37				
	Skudesnaes ..	1022·1	43	-	0	f	1022·3	0	41	0	-	0	-	f	2	4	43	39				
	Færder (X'lania Fjord)																					
	The Scaw (Skagen)	1020·6	39	W	4	b	1022·4	0	45	+4	WNW	4	-	b	4	-	46	37				
	Blaavands Huk	1026·1	39	WNW	1	c	1027·0	0	39	0	WNW	1	-	b	0	-	45	36				
	Haparanda ...	1018·3	18	NNW	4	b	1019·9	-4	12	-	SSW	4	-	o	*	-	30	12				
	Hernösand ...	1019·4	32	NE	2	bc	1016·8	-5	30	-	SE	4	-	c	*	Trace	41	27				
	Stockholm ...	1019·8	41	SE	2	o	1021·5	0	39	-	S	2	-	o	*	-	48	34				
	Wisby	1019·8	37	WSW	2	c	1023·7	0	41	-	SSW	2	NW	b	*	-	43	32				
	Karlstad	1019·1	39	-	0	c	1020·3	-1	34	-	-	0	-	f	*	-	45	34				
FRANCE, &c.	The Helder ...	1027·0	45	N	1	b	1025·7	0	43	-2	NE	1	-	b	1	-	48	41				
	C. Gris Nez ...	1024·7	45	NE	5	b	1021·9	-1	44	+1	ENE	4	*	b	2	-	52	43				
	La Hève	1022·1	41	NE	1	b	1020·2	*	46	+7	ENE	1	*	m	1	-	60	39				
	Brest (St. Mathieu)	1023·5	51	NNE	5	b	1021·0	0	44	+5	ENE	2	*	b	3	-	59	39				
	Rochefort (Ile d'Aix)	1019·0	59	NE	3	bc	1019·1	0	50	+5	ENE	2	*	b	*	-	68	43				
	Biarritz	1018·7	53	W	2	r	1018·4	+1	48	-3	-	0	*	b	2	-	55	46				
	Paris	1020·6	57	NNE	3	b	1020·4	0	43	+4	NE	1	-	b	*	-	64	39				
	Belfort	1021·1	54	E	4	m	1022·1	*	44	+5	E	4	*	m	*	-	60	39				
	Lyons	1019·4	54	NNE	1	bc	1021·0	*	43	+4	E	1	*	b	*	-	61	39				
	Nice	1017·0	65	E	5	b	1017·2	+1	63	+2	SW	1	*	b	3	-	72	61				
	Perpignan ..	1017·0	55	W	1	o	1018·6	+1	48	-6	W	1	-	m	*	1	61	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017·5	61	NNE	3	b	1016·7	-1	48	+2	S	1	-	b	1	-	63	43				
	Madrid (8 a.m.)	1012·4	63	SSW	1	c	1017·6	+2	48	-2	NNE	1	-	b	*	Trace	64	45				
	Lisbon (7 a.m.)	1015·5	61	NW	4	b	1014·4	0	52	0	W	1	-	b	5	-	64	50				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1014·0	0	61	0	ESE	5	-	c	5	-	63	59				
	Azores (Horta, 8 a.m.)	1012·6	*	-	0	r	1015·5	+1	58	-1	NNE	5	*	o	3	13	66	55				
	Madeira (Funchal)	1017·9	59	ENE	2	o	1016·8	0	55	-4	ENE	2	N	o	2	-	63	54				
YESTERDAY'S REPORTS		31st Mar. 8 P.M. G.M.T.					1st April, 7 A.M. G.M.T.															
ITALY.	Venice	1023·0	55	NE	3	b	1022·6	+1	52	0	NE	2	*	b	3	-	*	*				
	Turin	1023·3	57	-	0	b	1023·0	+1	50	+2	-	0	*	o	*	-	*	*				
	Viesti	1019·3	63	NE	5	b	1018·6	?	57	-2	E	2	*	c	*	-	*	*				
	Pesaro	1023·4	52	N	1	b	1022·0	+1	48	-4	S	2	*	b	4	-	*	*				
	Leghorn	-	-	-	-	-	1018·2	+1	59	-4	E	5	*	bc	5	-	*	*				
	Rome	1017·2	59	E	4	b	1018·6	+1	57	0	N	2	*	b	*	-	*	*				
	Brindisi	1018·7	55	NW	4	b	1017·5	0	55	+1	SW	4	*	b	4	-	*	*				
	Cagliari	1010·6	61	E	6	o	1010·8	0	57	+3	SW	5	*	o	3	5	*	*				
	Palermo	1012·6	68	S	6	f	1014·7	+1	66	+10	SE	4	*	bc	4	-	*	*				

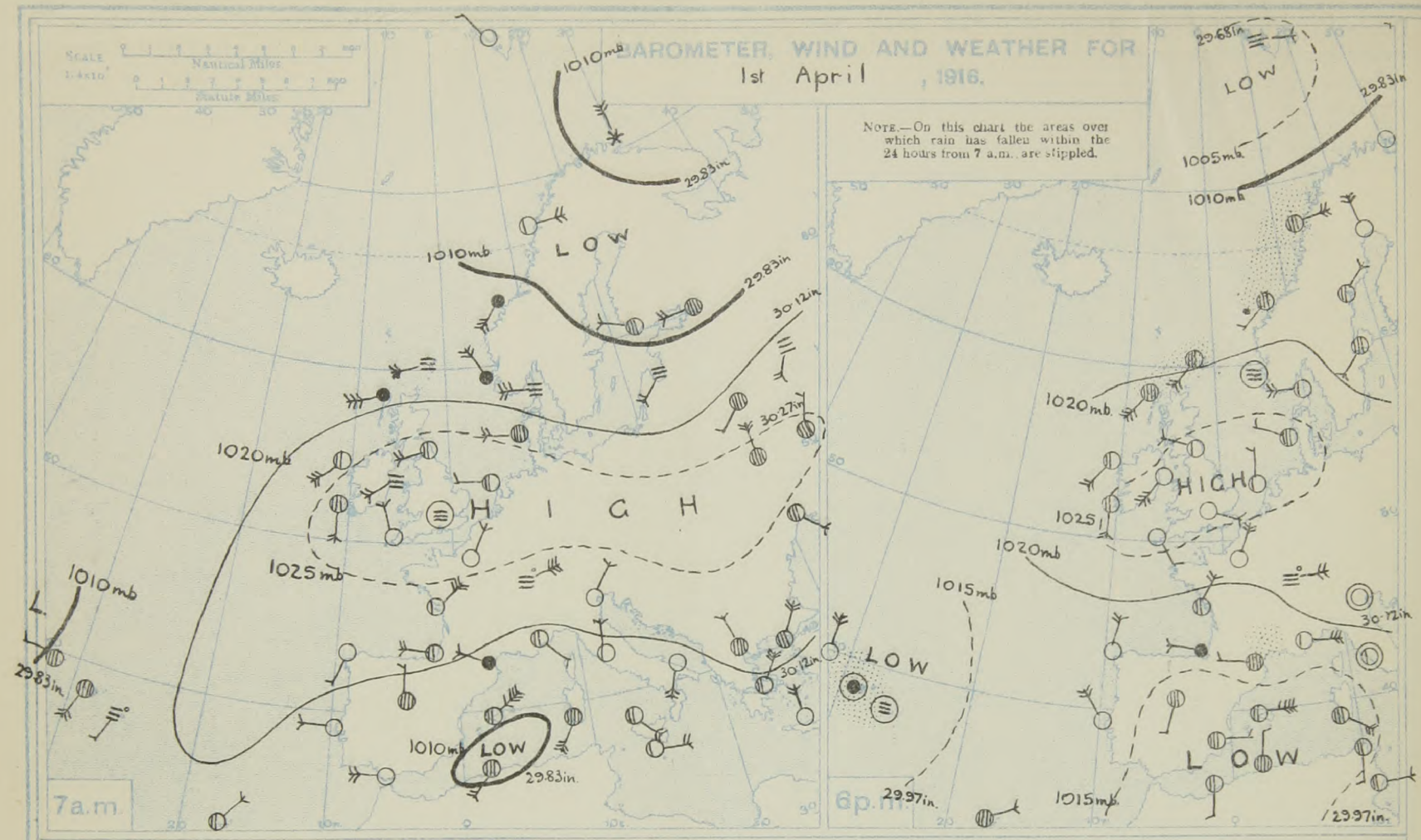
RAINFALL

Equivalents of Millimetres in Inches.

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

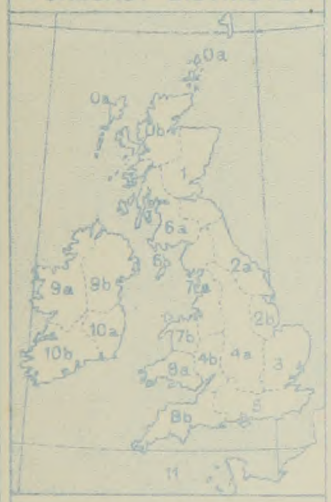
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 1st April, 1916.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



0 a, b — Moderate or fresh South-Westerly winds; fair, some showers; normal temperature.

1 — Light winds, mainly South-Westerly; fair to fine, some mist; rather cold at night.

2 a, b — Light variable or Southerly winds; fair, some mist and fog; cold.

3, 4 a, b, 5 — Light or moderate Easterly or South-Easterly winds; fine, some night mist or fog; cold at night.

6 a, b — Light or moderate Southerly winds; fair, some mist; normal temperature.

7 a, b, 8 a, b — Same as Nos. 3 to 5.

9 a, b, 10 a, b — Same as No. 6.

11 — Light Easterly winds; smooth sea; fine, some mist.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

FURTHER OUTLOOK.

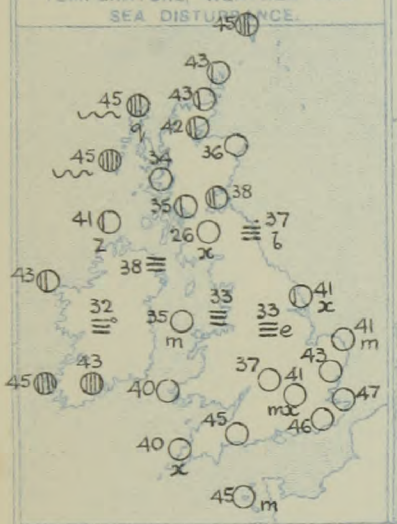
R. G. K. LEMPFERT, Superintendent, Forecast Division — NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 2nd APRIL, 1916.

GENERAL INFERENCE.

The anticyclone is likely to remain almost stationary over the North Sea.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

1005mb. LOW 29.68in. 29.83in. 29.97in. 30.12in. 30.27in. 1010mb. 1015mb. 1020mb. 1025mb. HIGH

Barometer falling

Barometer scarcely changing

SCALE 1:24,000,000
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

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

Scale of Tints for APRIL.

Issue No. 19,855

DAILY WEATHER REPORT.

Sunday, 2nd April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	31st AT 9 P.M. LOCAL TIME. Baron. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	1st AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Velikieluki	-	-	-	-	-	1016·8	?	37	..	SSW	3	*	0	*	-	*	*
Gorki	1025·3	32	-	0	0	1028·0	0	30	-	SW	1	*	0	*	5	*	*
Hangö	1009·9	34	WSW	7	r	1009·6	+2	34	0	WNW	2	*	c	*	11	*	*
Riga	1019·7	39	SW	3	0	1014·7	+3	39	+7	WSW	3	*	f	?	?	*	*
Petrograd	1014·1	36	SW	4	0	1007·1	+1	36	+6	W	3	-	0	*	2	?	30
Moscow	1024·4	37	S	2	r	1021·5	+2	34	+2	SW	3	*	f	*	3	*	32
Kiev	1023·7	45	NW	3	0	1025·1	0	37	+3	N	4	*	0	*	1	*	34
Kharkov	1027·1	39	ESE	2	0	1026·1	0	34	-2	NNE	1	*	0	*	-	*	*
Kishinev	1025·7	46	NW	4	0	1026·6	0	43	-3	NW	3	*	0	*	8	*	32
Elisabetgrad ...	1024·4	45	E	3	0	1024·7	0	37	-4	-	0	*	f	*	-	*	34
Nicolaiev	1023·0	48	-	0	bc	1023·4	*	39	0	-	0	*	c	*	-	*	39
Odessa	1023·7	50	SE	1	b	1022·7	+1	43	-2	SE	2	*	c	0	-	*	41

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	50	44	bc	b	4·8
	Banff	-	56	47	bc	bc	2·2
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	58	37	c.bc.b	b	9·1
	Skegness						
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	49	37	b	b	10·8
Midlands	Buxton						
	Leamington Spa	-	57	33	b	b	10·0
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno						
	Aberystwyth	-	47	38	o.c	c.bc	6·0
	Tenby	-	54	34	b	b	8·3
England, E.	Lowestoft						
	Felixstowe	-	58	35	b	b	11·1
	Walton-on-Naze	4	1	1	b	b.bcm	10·8
	Southend-on-Sea	-	56	37	b	b	9·5
England, S.E.	Margate	-	49	40	b	b	10·5
	Ramsgate	-	51	39	bc	bc	10·5
	Hastings	-	56	41	b	b	11·7
	Eastbourne	-	53	35	b	b	11·0
	Seaford	-	58	37	b	b	11·1
	Brighton	-	59	56	b	b	10·9
	Worthing	-	58	35	b	b	11·4
	Littlehampton	-	55	48	b	b	11·2
	Bognor						
	Southsea						
	Bournemouth	-	58	33	b	b	11·1
England, S.W.	Weymouth	-	57	38	bz	bz	11·0
	Torquay	-	54	36	b	b	11·4
	Paignton	-	55	32	bm.b	b	11·0
	Penzance	-	54	37	b	b	11·2
	Newquay	*					
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	-	52	37	b	b	11·4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	61	80	9·8	58	35	26	-	b	b	b.bx
City (Bunhill Row)	*	*	9·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	81	8·7	58	41	36	-	b	b	b
Camden Sq. (Brit. Rainfall)	56	74	8·3	59	37	30	.	.	-	*
Hampstead (Reservoir) ...	*	72	10·2	55	38	28	-	b	b.bc	bmxbm
Richmond Park ...	*	*	8·5							
Kew. (See front page.)	*	*	9·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	59	74	7·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1028 Joules	22·2 Milliwatts.	44 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	56	38	33	bm	b	b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	-	56	35	26	*	bc	c	4·1
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	53	37	25	om.b	b.	b.bz	*

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

2nd & 3rd April 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5·28 / 5·26	11·57 / 11·57	6·29 / 6·28
Greenwich	6·36 / 5·34	12·4 / 12·4	6·32 / 6·34
Wick	5·40 / 5·38	12·16 / 12·16	6·52 / 6·54
Valencia	6·17 / 6·15	12·45 / 12·45	7·13 / 7·15

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station, Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
	Eskdalemuir 27th Mar. 9am		Benson 27th. 12.15pm		Eskdalemuir 28th. 1pm		Eskdalemuir 29th 9am.		Benson. 29th 12.9pm		Eskdalemuir 1st Apr. 7am.			
Heights in Kilometres 4			+16	+2			+8	-1						
3			+14	+1			+9	0						
2			+7	+3			+4	-4			+3	-2		
1	+8	-7	+3	+3	-10	-15	+8	-6			+6	+1		
.5	+4	-8	+5	+4	-9	-14	+4	-1	+5	-3	+5	+1		
0	+2	+2	+4	+3	-4	-12	0	0	+5	-3	+5	0		

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 94. Monday 3rd April

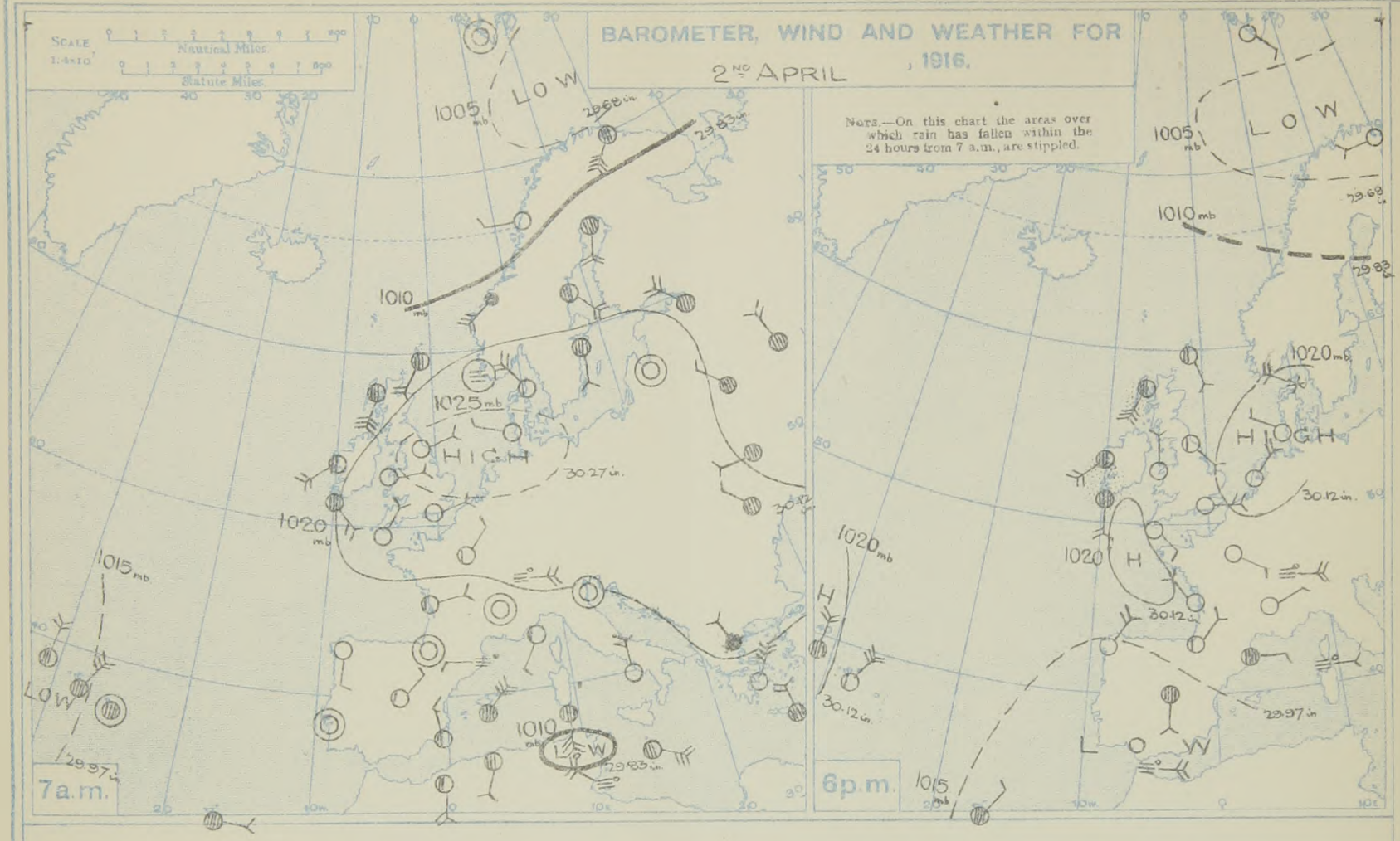
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1018·2	46	SSE	2	bcm	1012·2	-1	42	-3	*	0	-	cm	0	-	50	37	bc	bcm	cm	*
	Deerness (Orkney)	1016·6	43	SW	2	bc	1011·8	*	44	+1	S	2	W	c	2	.	49	39	b.bc	bc	bc.c	10·1
	Stornoway ...	1016·0	46	SSW	6	cq	1011·4	+1	42	-3	W	2	-	o	2	1	51	42	bcq	bcq	bc.odp	8·4
	Castlebay (Barra Isd.)	1016·1	46	S	4	bc	1013·1	0	44	-1	W	2	-	op	2	2	47	41	o.c.b	bc	bc.bop	7·1
	Glasgow ...	1018·0	55	SW	1	b	1015·9	-1	42	+7	WSW	2	-	bc	*	.	61	35	bz	bz	b bc cz	11·3
	Eskdalemuir ...	1018·5	49	SW	1	b	1017·3	-1	32	+6	-	0	-	bzx	*	Trace	59	25	b	b	bz bm	11·3
	Malin Head ...	1016·7	47	NE	1	bz	1014·2	-2	44	+3	SW	3	-	om	3	-	52	40	bcm	bz	om	11·3
	Blacksod Point	1016·8	45	SW	4	cm	1013·8	+2	42	-1	W	2	SW	br	2	1	48	41	bc	bc	bcafd	*
	Valencia ...	1018·9	46	S	3	o2	1018·4	0	46	+1	WNW	2	-	or	*	1	50	45	o	o2	o2oor	0·0
	Roche's Point	1020·2	47	SSW	2	b	1020·3	*	46	+3	SW	2	-	o	2	Trace	50	43	bz	bz	bzow	*
	Birr Castle ...	1018·8	50	S	1	c	1017·8	*	44	+12	S	1	-	o	*	-	54	32	bc	c	c.o	10·2
	Donaghadee ...	1018·4	50	S	3	bz	1016·6	0	39	+1	SW	3	-	bcm	2	-	51	37	bz	bz	bcf	*
	Liverpool (Bidston)	1018·8	56	ESE	2	b	1018·3	0	43	+10	W	1	-	b	?	-	59	33	b	b	bm	9·5
	Holyhead ...	1018·7	49	N	2	bm	1017·8	0	42	+7	SW	4	-	fc	3	Trace	55	35	bm	bm	bm fc	10·0
	Pembroke (St. Ann's)	1019·6	48	WNW	2	b	1019·8	0	44	+4	WNW	2	NW	bc	2	01	54	39	b	b	fe bc	9·8
	Scilly (St. Mary's)																					
	Falmouth ...	1019·6	49	SE	1	bz	1020·2	0	43	+3	-	0	-	oz	*	.	53	40	b	b.bc.b	bc.oz	10·7
	Jersey (St. Aubin)	1019·3	54	NW	3	b	1019·3	*	46	+1	NW	2	-	bm	1	-	59	38	bm	bm b	bwxm	11·2
	Portland Bill ...	1019·7	47	-	0	bm	1018·9	-1	45	0	NW	1	-	b	2	-	50	42	b	b	bw	*
	Dungeness ...	1018·8	49	ENE	3	b	1017·4	-1	42	-4	NE	1	-	bzw	1	-	53	40	bz	bz	b bz	*
	Dover	1020·3	49	NE	1	b	1017·8	0	48	+1	NW	1	-	b	2	0·2	57	43	b	b	ozw	11·3
	Wick	1016·7	45	SSE	2	bc	1012·0	-1	38	-5	SW	1	-	m	2	-	53	35	bm	bc	bcm	*
	Nairn	1016·2	54	-	0	bc	1013·1	*	43	+1	WSW	1	-	bcm	1	-	63	37	bcb	b.bc	bcx	9·8
	Aberdeen ...	1018·3	49	SSW	4	b	1014·0	0	38	+2	WNW	1	SW	bz	1	-	62	35	bz.b	b	bz	10·9
	Leith	1018·1	45	NE	1	b	1015·6	-1	41	+3	SW	1	SW	c	2	-	58	37	b	b	b.bc.c	*
	Tynemouth ...	1019·5	52	SE	2	bm	1017·1	-3	41	+4	SW	1	-	bcf	3	-	52	37	bcm	bm	bcf	*
	Spurn Head ..	1021·6	43	SE	3	bm	1017·9	-1	41	0	S	1	-	bm	2	-	49	39	bcm	bm	bm	9·2
	Yarmouth ...	1021·5	43	ENE	2	b	1017·8	-2	38	-3	-	0	-	f	1	-	49	34	bm	bm	bm	11·5
	Clacton-on-Sea	1020·6	49	NNE	3	b	1018·2	-1	43	0	NNE	1	-	b	0	-	51	40	bmz	bz	bzm	11·1
	Nottingham ...	1019·7	56	SE	2	b	1018·1	*	36	+3	-	0	-	fe	*	-	59	32	f.mb	b	b	8·9
	Benson (Oxon) ...	1018·7	55	-	0	b	1018·8	0	36	-1	-	0	-	f	*	.	62	32	b	b	b	*
	Sth Farnborough	1019·7	57	NE	2	b	1018·5	0	36	-4	W	1	-	fe	*	.	66	33	bz	bz	b.fe	10·7
	London (Kew Obsy.)	1019·6	54	E	3	b	1018·7	-1·1	37	-4	WNW	1	-	fw	*	Trace	59	36	bmx.bm	bm	bm fw	10·4
NORTHERN EUROPE.	Spitsbergen ...	1008·2	-22	SE	1	b	1012·2	+3	-24	+2	SE	1	*	b	*	*	-17	-29				
	Vardö	1003·0	18	W	2	b	1006·1	0	19	0	W	6	-	o	4	*	21	14				
	Bodö														*							
	Christiansund														*							
	Skudesnaes ..														*							
	Færder (Christiania Fjord)														*							
	The Scaw (Skagen)	1021·3	43	WNW	4	s	1021·3	-1	39	-6	W	3	-	b	3	-	52	36				
	Blaavands Huk	1024·2	41	WNW	1	b	1020·7	0	39	0	SSE	1	-	b	1	-	46	30				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1021·6	46	NE	3	b	1018·1	-1	46	+3	SE	1	-	b	1	-	48	43				
	C. Gris Nez ...	1019·1	46	NE	4	m	1017·9	0	46	+2	E	2	*	m	2	-	52	43				
	La Hève	1019·8	46	SE	2	b	1019·0	*	43	-3	NW	3	*	f	2	-	52	34				
	Brest (St. Mathieu)	1020·3	51	NNW	2	b	1019·9	0	43	-1	N	1	*	b	3	-	57	43				
	Rochefort (Ile d'Aix)	1019·0	54	NW	2	b	1017·6	0	52	+2	NE	3	*	m	*	-	70	46				
	Biarritz	1016·6	55	NE	2	b	1016·2	0	52	+4	SW	2	*	c	0	-	61	48				
	Paris	1017·9	63	ENE	1	b	1017·3	+1	43	0	NE	1	-	b	*	-	72	39				
	Belfort	1018·7	57	E	4	m	1019·3	*	47	+3	E	2	*	m	*	-	64	43				
	Lyons	1017·0	64	NNE	1	b	1018·3	*	49	+6	-	0	*	b	*	-	70	43				
	Nice												*									
	Perpignan ..	1016·6	61	E	1	o	1016·6	0	52	+4	-	0	SE	r	*	-	70	48				
	Sanguinaire ...	*	60	E	2	m	*	*	59	-	NW	2	*	o	3	?	60	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1014·4	59	NE	3	b	1016·4	+2	50	+2	S	1	-	b	1	-	61	46				
	Madrid (8 a.m.)	1014·4	57	S	2	o	1017·1	+2	46	-3	NE	2	.	o	*	Trace	61	41				
	Lisbon (9 a.m.)																					
	Gibraltar	1013·9	58	E	4	m	1012·5	*	57	-	E	6	*	bc	3	-	68	53				
	Malta (8 a.m.) ...	*	*	*	*	*	1017·6	+3	61	0	ESE	2	-	bc	1	-	64	57				
	Azores (Horta, 8 a.m.)	1016·4	*	NNE	5	b							*									
	Madeira (Funchal)	1014·7	59	NE	1	o	1014·1	0	57	+2	ENE	2	-	o	2	-	59	55				
YESTERDAY'S REPORTS		1st April, 8 P.M. G.M.T.					2nd April, 7 A.M. G.M.T.															
ITALY.	Venice	1020·4	55	-	0	b	1019·9	+1	32	0	-	0	*	b	3	-	*	*				
	Turin	1021·0	57	-	0	b	1020·6	0	50	+2	-	0	*	b	*	-	*	*				
	Viesti	1019·0	57	WNW	5	o	1018·2	-1	59	0	WNW	5	*	c	*	-	*	*				
	Pesaro	1021·3	50	WSW	3	b	1019·9	+1	46	-6	NSW	3	*	b	2	-	*	*				
	Leghorn	1019·0	63	-	0	b	1018·0	0	61	+6	E	5	*	b	1	-	*	*				
	Rome	1017·2	61	-	0	b	1016·9	0	55	-2	N	3	*	b	*	-	*	*				
	Brindisi	1018·8	59	WNW	5	b	1016·6	0	57	+3	NW	5	*	o	4	-	*	*				
	Cagliari	1014·6	64	SE	5	c	1014·4	0	57	+3	S	5	*	b	3	-	*	*				
	Palermo	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	*				

RAINFALL
Equivalents of Millimetres in Inches.

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

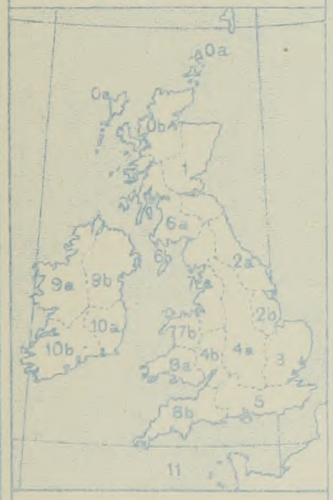
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 2ND APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 {a, b}, 1 — Light or moderate South-Westerly winds; fair, misty weather, some showers; normal temperature.

2 {a, b}, 3, 4 {a, b}, 5 — Light variable winds chiefly between West and North; fair, mist or fog at night inland; mild day, cold at night.

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

8 {a, b} — Light North-Westerly breezes or calms; fair to dull, slight rain, some mist; normal temperature.

9 {a, b}, 10 {a, b} — Light or moderate Westerly winds; fair, some showers; normal temperature.

Western Channel and Bay 11 — Light Northerly or variable winds; sea smooth; fair to dull weather

FURTHER OUTLOOK.

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

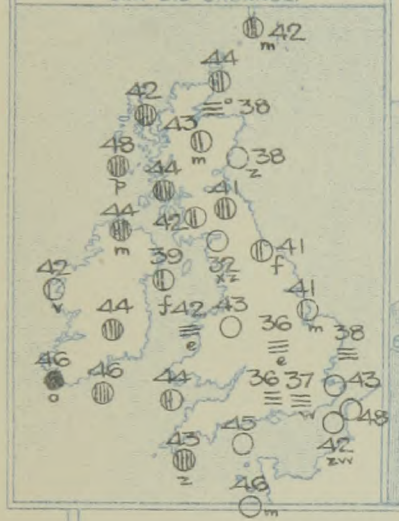
SYNOPTIC CHART FOR 7 a.m., MONDAY, 3RD APRIL, 1916.

GENERAL INFERENCE.

Little change in pressure

conditions is expected.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

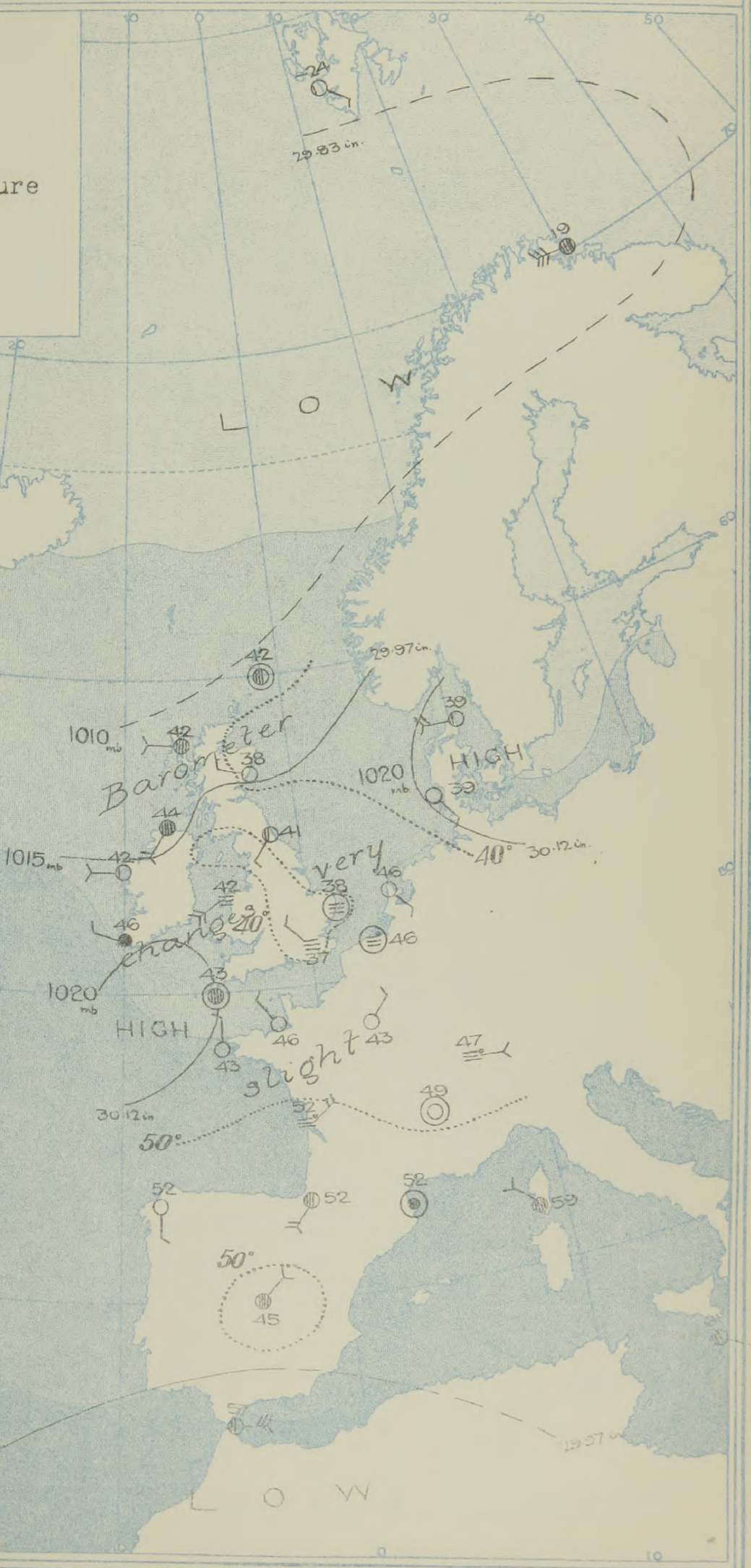
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈



SCALE 1 : 2 x 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 600

Normal Temperature of the Sea.

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

Scale of Tints for APRIL.

Issue No. 10856.

DAILY WEATHER REPORT.

Monday, 3rd April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	18th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	2nd AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel												*				*	
Velikieluki						1019.8	?	32	-5	WSW	2	*	b	*	-	*	30
Gorki	1016.3	39	-	0	r	1018.1	+3	34	+4	NW	1	*	0	-	3	*	30
Hangö	1018.3	34	WSW	2	b	1024.7	+3	23	-11	NNW	1	*	bc	-	-	*	*
Riga	1019.7	37	-	0	0	1024.4	+3	32	-7	-	0	*	b	2	-	*	*
Petrograd	1011.0	36	WNW	2	c	1018.9	+5	24	-9	SSW	4	-	0	*	-	36	24
Moscow	1014.6	36	SW	4	r	1012.2	+2	34	0	NNW	5	*	0	*	2	*	34
Kiev	1022.9	46	S	2	bc	1019.5	-3	43	+6	W	2	*	0	*	1	*	37
Kharkov	1020.7	41	SSW	1	b	1019.5	-2	41	+7	W	1	*	f	*	-	*	*
Kishinev	1025.3	45	NW	2	b	1023.4	0	37	-6	NW	1	*	b	*	-	*	36
Elisabetgrad ...	1023.3	43	NNW	2	b	1020.8	-1	43	+6	NW	2	*	0	*	-	*	37
Nicolaiev	1022.1	50	-	0	b	1020.6	*	43	+4	N	2	*	0	-	-	*	37
Odessa	1023.4	48	NNE	3	b	1021.4	0	45	+2	NNE	3	*	0	-	-	*	43

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	56	32	b	b	9.7
	Banff	-	63	36	b	b	10.5
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	57	35	b	b	11.0
	Skegness						
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	62	27	b	b	
Midlands.	Buxton						
	Leamington Spa	-	62	32	b	b	10.0
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	62	30	b	b	9.8
	Colwyn Bay	-	59	33	bc	bc	11.0
	Llandudno	-	54	34	b	b	11.1
	Aberystwyth	-	60	38	o.c.b	b.bc	9.5
	Tenby						
England, E.	Lowestoft						
	Felixstowe	-	47	40	b	b	11.4
	Walton-on-Naze						
	Southend-on-Sea						
England, S.E.	Margate						
	Ramsgate	-	52	43	bc	bc	11.2
	Hastings	-	60	43	b	b	11.6
	Eastbourne	-	53	40	b	b	11.0
	Seaford						
	Brighton						
	Worthing						
	Littlehampton	-	60	48	b	b	11.4
	Bognor						
	Southsea						
	Bournemouth	-	57	37	b	b	11.0
England, S.W.	Weymouth						
	Torquay	-	53	43	b	b	11.3
	Paignton						
	Penzance						
	Newquay	*	56	35	b	b	10.0
	Ilfracombe						
	Weston-super-Mare ...	-	62	37	b	bz	10.5
	Budo	-	59	34	b	b	11.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	57	94	10.7	60‡	34	28	-	b	b	bfx
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	54	96		60	36	34	-	b	bbm	bm
Camden Sq. (Brit. Rainfall)	*	90	8.8	61	36	31	-	-	-	*
Hampstead (Reservoir) ...	*	78	11.2	58	38	25	-	bm	bxf	bf
Richmond Park ...	*	*								
Kew. (See front page.)	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	53	100	10.5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1411 Joules	36.3 Milliwatts.	86 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	60	39	28	b	bz	bz	*

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

3rd & 4th April, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5.26 5.24	11.57 11.56	6.28 6.29
Greenwich	5.34 5.32	12.4 12.3	6.34 6.35
Wick	5.38 5.35	12.16 12.15	6.54 6.56
Valencia	6.15 6.13	12.45 12.44	7.15 7.16

NOTES ON YESTERDAY'S WEATHER.

The day was fine over the whole country, with over 11 hours of sunshine at many stations. Temperature rose to 66° at South-Farnborough and to over 60° at several other stations.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 95. Tuesday 4th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 hours. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·5	45	SW	3	bc	1004·4	-2	42	0	SW	3	SW	bc	2	–	49	39	c.rm	bc	bc	*
	Deerness (Orkney)	1010·8	45	WSW	3	bc	1004·7	*	40	-4	SSW	5	W	bc	4	–	47	37	cm	m.c.bc	bc	1·5
	Stornoway ...	1010·7	45	WSW	4	cq	1005·3	0	41	-1	WNW	5	–	beq	4	2	51	38	o.bcq	bcq	b.bcpq	5·9
	Castlebay (Barra Isd.)	1012·8	45	W	4	c	1009·9	0	42	-2	W	4	–	ep	4	4	48	40	ep.bc	c.bc.	c.b.r.ep	6·2
	Glasgow ...	1014·2	45	W	1	omq	1012·0	-2	38	-4	WSW	3	W	bc	*	0·1	47	36	bc.c.om	omdp.	omdp.c	0·3
	Eskdalemuir ...	1014·3	43	SW	2	omd	1013·4	-1	37	+5	WSW	4	–	c	*	0·1	51	31	bz c.oz	oz omd	o	4·2
	Malin Head ...	1014·1	46	W	3	b	1013·0	-1	42	-2	W	4	W	cqp	4	1	51	38	bc	bc	cmqp	4·8
	Blacksod Point	1017·5	43	NW	3	bc	1018·4	+2	42	0	NNW	5	NW	bcp	4	2	49	38	bc	bcr	bc.bcp	*
	Valencia ...	1020·5	47	WNW	4	b	1022·5	+2	43	-3	NW	4	NW	cpq	5	1	50	40	or.c	c.b.	bcph.b3p	3·3
	Roche's Point	1019·3	46	W	2	c	1022·4	*	40	-6	WNW	3	–	b	3	3	49	37	opd.om	d.c.c.	c.b.	*
	Birr Castle ...	1017·7	47	W	2	c	1019·9	*	37	-7	W	1	–	bc	*	–	48	33	od.r	od.r.c	bcpc	0·0
	Donaghadee ...	1015·3	44	SSW	2	orgm	1014·8	-1	37	-2	SW	3	W	bm	2	3	48	35	fr	f.ogmr	bcmpc	*
	Liverpool (Bidston)	1015·8	45	W	2	b	1016·1	0	?	?	W	3	–	o	3	3	50	39	bm	bm	or.b.	1·3
	Holyhead ...	1016·4	45	SSW	3	om	1017·0	+1	40	-2	W	4	–	b	3	5	50	40	om.bcm	bcm.o.	omr.b	1·1
	Pembroke (St. Ann's)	1017	46	W	3	c	1019·7	+2	42	-2	NNW	4	NW	b	?	?–	49	40	bc.c	c.	b	3·0
	Scilly (St. Mary's)																					
	Falmouth ...	1017·6	48	NW	3	b	1020·4	+2	42	-1	N	3	–	b	*	–	53	41	o	o.b	o.c.b	4·7
	Jersey (St. Aubin)	1017·1	49	WNW	3	cm	1017·4	*	46	0	NW	3	–	o	3	–	51	43	bm.f.bc	bc.bcm	bm.o	9·0
	Portland Bill ...	1016·6	46	WNW	2	b	1016·5	+1	44	-1	NNW	5	NW	b	3	–	52	42	b	b	b	*
	Dungeness ...	1014·4	50	W	3	bz	1013·1	+1	42	0	NNW	2	–	b	2	–	55	38	bz	bz	bz	*
	Dover	1014·8	54	–	0	bfq	1012·9	+2	43	-5	NW	5	–	b	3	–	64	42	b	bz	bz	11·2
	Wick	1011·3	47	WSW	1	m	1005·6	-4	39	+1	SW	2	–	bc	2	0·1	49	36	cm	pd.cm	bc	*
	Nairn	1011·7	50	W	1	cq	1007·1	*	40	-3	W	2	–	bc	2	–	52	35	bc.c	cq.bc	c.bcx	2·3
	Aberdeen ...	1012·0	50	WNW	3	qp	1008·9	0	41	+3	SSW	3	–	b	1	1	59	37	bz	bz c op	op.c.b	6·4
	Leith	1013·7	48	WSW	1	o	1011·5	-1	39	-2	SW	2	SW	bc	3	–	56	38	c.bc.o	o	o.c.o.bc	*
	Tynemouth ...	1013·9	50	NE	2	bcm	1013·4	0	40	-1	NW	2	W	bcm	2	3	52	40	bc.f	bcm.	bcpc	*
	Spurn Head ...	1013·7	45	S	2	bc	1011·1	0	40	-1	NNW	5	–	oqd	5	Trace	54	39	bcm	bcm.	bm	8·0
	Yarmouth ...	1014·6	45	NE	4	b	1011·4	+2	40	+2	NW	2	–	om	2	–	49	37	f.bm	bm	bm.rm	11·1
	Clacton-on-Sea	1014·7	52	ENE	1	b	1012·9	+2	42	-1	NW	3	–	m	1	–	55	41	bm	bm z	bz m	10·4
	Nottingham ...	1013·8	57	W	2	b	1015·2	*	43	+7	WNW	3	W	bc	*	–	64	35	f.m.b.	bm	bm	7·9
	Benson (Oxon.) ...	1014·6	57	–	0	b	1015·9	+3	42	+6	NW	4	–	bc	*	–	63	35	b	b	b	*
	Sth Farnborough	1013·7	62	W	1	b	1014·8	+2	43	+7	NNW	4	–	o	*	–	67	36	f.b	b	b.o	8·8
	London (Kew Obsy.)	1013·9	62	NW	1	bz	1011·9	+3	44	+7	NNW	4	W	o	*	Trace	64	57	fw b	o.bz	bz o	7·7
NORTHERN EUROPE.	Spitsbergen ...	1013·1	-27	SE	1	b	1014·7	+3	-27	-3	–	0	*	b	*	*	-17	-40				
	Vardö	1007·0	19	W	1	s	1002·7	-2	18	-1	WNW	5	–	bc	3	*	23	18				
	Bodö	1003·8	30	E	2	o	998·0	-1	37	+12	SW	7	–	o	4	?	30	23				
	Christiansund	1008·6	41	SW	3	c	1005·6	-2	39	-4	SW	3	–	r	3	5	52	39				
	Skudesnaes ..	1012·6	39	SSE	3	b	1007·0	-3	39	+2	E	1	–	f	3	–	45	37				
	Færder (X'fiania Fjord)																					
	The Scaw (Skagen)	1016·0	41	S	1	b	1009·2	-4	41	+2	SSW	3	–	fq	3	–	50	39				
	Blaavands Huk	1015·5	48	W	1	m	1009·2	-2	39	0	S	1	–	fq	1	–	54	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1014·3	54	–	0	b	1009·5	0	46	0	SSW	1	–	b	0	–	54	36				
	C. Gris Nez ...	1015·3	50	WSW	1	m	1013·1	+1	45	-1	SW	1	*	m	1	–	55	43				
	La Hève	1016·8	47	N	2	m	1014·7	*	46	+3	W	3	*	o	2	–	55	43				
	Brest (St. Mathieu)	1018·6	49	NNW	4	o	1020·4	+1	46	+3	N	5	*	b	3	–	57	43				
	Rochefort (Ile d'Aix)	1015·0	56	NW	4	b	1015·1	0	43	-9	NNE	4	*	o	*	–	64	43				
	Biarritz	1014·0	55	SW	2	thr	1014·0	+1	54	+2	SW	3	*	m	2	1	59	54				
	Paris	1013·3	64	–	0	b	1014·7	+2	45	+2	WNW	2	–	o	*	–	73	43				
	Belfort	1015·3	63	W	2	m	1017·1	*	50	+3	W	3	*	m	*	–	71	47				
	Lyons	1016·1	62	S	3	b	1016·8	*	50	+1	SW	1	*	c	*	–	73	46				
	Nice	1018·6	55	E	4	c	1017·9	0	53		S	1	*	o	2	–	63	52				
	Perpignan ..	1016·4	55	E	1	o	1014·4	+1	52	0	SE	1	SE	o	*	3	63	46				
	Sanguinaire ...	*	60	NW	2	o	*	*	57	-2	E	1	*	bc	1	–	61	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1016·4	54	NW	4	f	1019·9	+5	54	+4	NE	5	–	f	2	–	61	52				
	Madrid (8 a.m.)	1014·7	48	NE	2	o	1017·0	+3	45	0	–	0	NE	o	*	6	50	41				
	Lisbon (9 a.m.)	1012·6	64	NNW	4	b	1014·0	+2	55	+1	NNW	3	–	b	5	–	68	54				
	Gibraltar	1013·5	57	E	4	m	1012·8	*	57	0	E	5	*	b	3	–	61	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1019·4	+1	61	0	E	2	–	c	1	–	66	57				
	Azores (Horta, 8 a.m.)	1021·1	*	NE	5	c	1024·8	+1	67	0	–	0	*	o	2	1	63	55				
	Madeira (Funchal)	1013·9	59	NE	2	o	1016·2	0	55	-2	NE	3	NE	o	3	–	61	54				
YESTERDAY'S REPORTS		2nd..., 8 P.M. G.M.T.					3rd April, ..., 7 A.M. G.M.T.															
ITALY.	Venice	1019·3	59	–	0	b	1020·1	+1	54	+2	N	2	*	b	3	–	*	*				
	Turin	1019·7	58	–	0	b	1020·3	0	54	+4	–	0	*	b	*	–	*	*				
	Viesti	1017·5	57	NNW	3	b	1019·7	+2	55	-4	–	0	*	b	*	–	*	*				
	Pesaro	1019·9	57	WSW	2	b	1020·1	+2	46	0	S	3	*	b	2	–	*	*				
	Leghorn	1018·0	63	–	0	b	1018·6	0	59	-2	E	3	*	b	3	–	*	*				
	Rome	1017·6	61	–	0	o	1018·1	+1	55	0	N	1	*	b	*	–	*	*				
	Brindisi	1016·6	57	NW	4	b	1017·5	+3	57	0	WNW	4	*	o	5	–	*	*				
	Cagliari	1014·6	63	ENE	5	o	1014·6	0	63	+6	SE	3	*	bc	4	9	*	*				
	Palermo	1016·6	59	–	0	f	1016·2	+1	64	.	–	0	*	bc	1	–	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7 a.m. today.

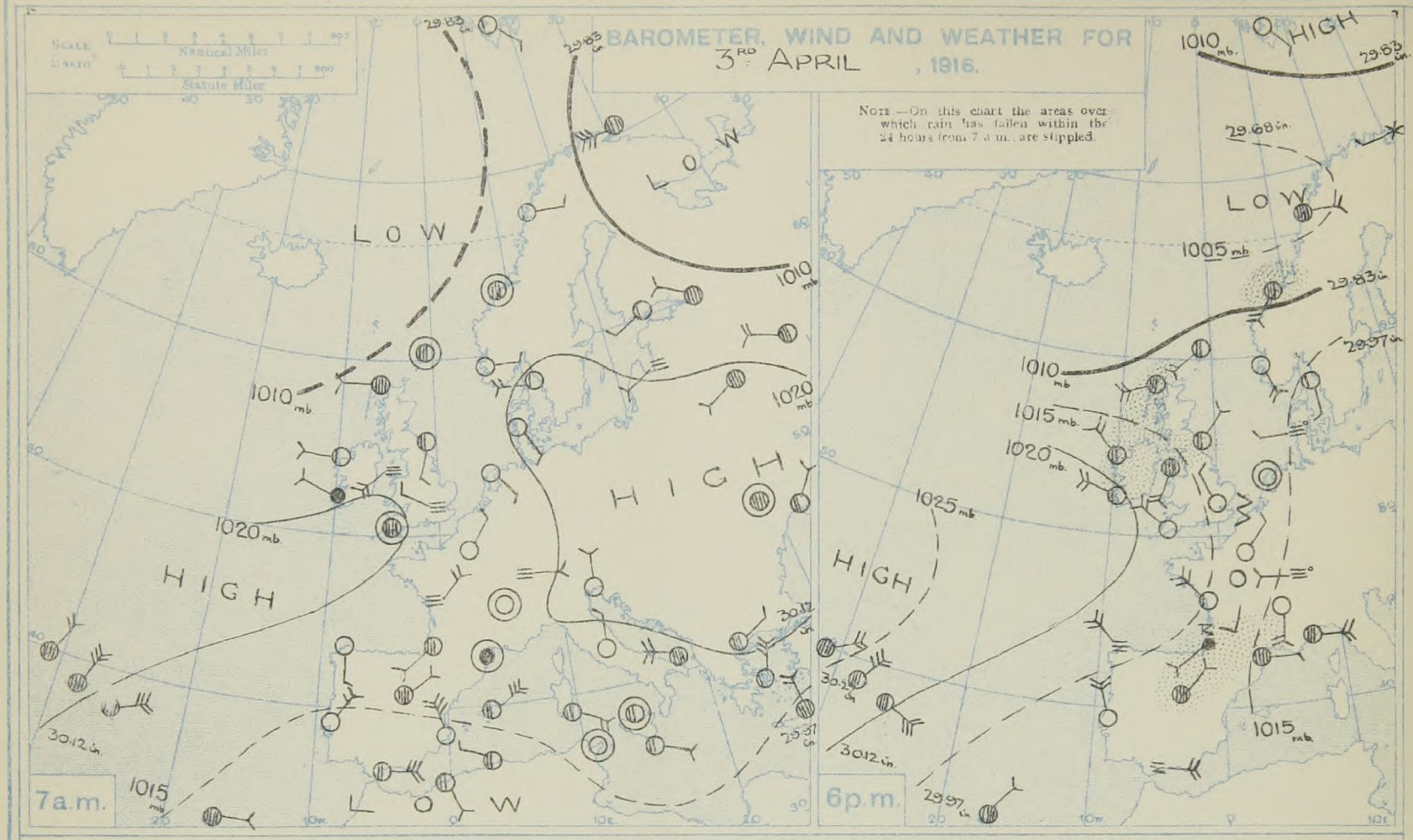
3000 feet	NW by N	25 miles per hour
2000 "	N by W	30 " "
1000 "	NNW	21 " "
Surface.	NW	17 " "

RAINFALL
Equivalents of Millimetres in Inches.

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

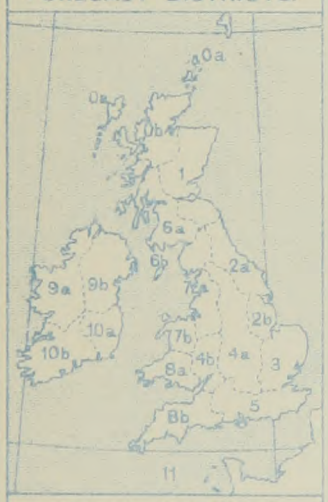
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 3RD APRIL, 1916.



FORECASTS FOR 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b; 1 — South-Westerly to North-Westerly breezes, moderate or fresh at times; fair generally, some showers and mist; moderate temperature.

2 a, b; 3; 4 a, b; 5 — North-Westerly to Northerly breezes, moderate or fresh at times; fair generally, some showers and mist; moderate temperature.

6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b

Western Channel and Bay 11 — Northerly to North-Easterly breezes, moderate or fresh; sea moderate or rather rough; fine to dull, local fog; cool.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 4TH APRIL, 1916.

GENERAL INFERENCE.

A Westerly to Northerly type of conditions will become general with the eastward expansion of the new anticyclone beyond our south-western coasts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

SCALE 1:20×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

HIGH
LOW
LOW
HIGH
HIGH
1010 mb.
1005 mb.
1000 mb.
1000 mb.
1005 mb.
1010 mb.
1015 mb.
1020 mb.
1015 mb.
29.83 in.
29.68 in.
29.53 in.
29.68 in.
29.83 in.
29.97 in.
30.12 in.
Barometer falling
Barometer rising slowly
40°
50°
50°

Issue No. 19857

DAILY WEATHER REPORT.

Tuesday, 4th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	2nd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	3rd AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel												*				*	
Velikieluki						1018·3	?	36	+4	S	3	*	0	*	-	*	27
Gorki	1023·1	32	NW	1	b	1027·7	0	30	-4	WSW	2	*	0	*	-	*	25
Hangö	1015·8	36	WSW	5	0	1015·0	0	34	+11	WSW	1	*	b	-	-	*	23
Riga	1021. 5	39	S	2	b	1018·7	0	34	+5	WSW	2	*	f	-	-	*	37
Petrograd	1020·0	28	W	2	0	1011 8	+1	34	+7	WNW	2	-	0	*	2	34	27
Moscow	1018·9	32	NNW	4	0	1018·1	-0	27	-7	WNW	3	*	C	*	-	*	?
Kiev	1023.5	41	NE	2	b							*		*		*	
Kharkov	1020·8	37	N	2	b	1024.3	+2	32	-9	NW	2	*	b	*	-	*	30
Kishinev	1022·7	50	N	2	0	1026.6	+2	43	+6	-	0	*	0	*	-	*	41
Elisabetgrad ...	1021·9	43	N	2	b	1025·7	+2	32	-11	NNW	2	*	b	*	-	*	32
Nicolaiev	1020·0	52	N	4	0	1024.4	*	34	-6	NE	2	*	bc	0	?	*	36
Odessa	1020·8	54	ENE	3	0	1025·0	+4	41	-4	E	3	*	0	0	-	*	41

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	-	48	33	0	bc.0	0·9
	Banff	-	56	32	bc	bc.c	4·0
	St. Andrews	-	59	32	*	*	7·9
Eng. N.E.	Harrogate	-	60	36	b	b	10·4
	Skegness						
Eng. N.W.	Morecambe	-	49	35	bc.c.	c. bc	3. 4
	Blackpool						
	Southport	-	48	37	b.om.c.b	c	8·0
Midlands	Buxton						
	Leamington Spa	-	63	34	b	b	9·6
	Malvern						
	Ross-on-Wye	-	63	32	bm.b	b	8·5
Wales.	Rhyl	-	51	35	bc. b	bc	10·0
	Colwyn Bay	-	53	34	bc	c	9 6
	Llandudno	-	51	37	b	b	9·4
	Aberystwyth	-	49	39	c.o.c	c .o	6·2
	Tenby	-	55	36	b	b	5·4

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	-	57	36	b	b	11·5
	Felixstowe	-	54	36	bm.b	b	10.4
	Walton-on-Naze						
	Southend-on-Sea	-	61	?	b	bz	8·0
England, S.E.	Margate	-	54	39	b	b	10·0
	Ramsgate	-	62	39	bc	bc	10·4
	Hastings	-	60	47	b	b	11·4
	Eastbourne	-	62	40	b	b	11·0
	Seaford	-	57	41	b	b	11·0
	Brighton						
	Worthing	-	60	39	b	b	11 2
	Littlehampton						10·0
	Bognor	-	54	36	b	b	11. 1
	Southsea						
	Bournemouth	-	62	33	b	b	11.3
England, S.W.	Weymouth	-	60	35	z.b	bm	10·5
	Torquay	-	55	38	b	bc.c.o	7·5
	Paignton						
	Penzance	-	54	40	c.bc	b c.b	6.6
	Newquay	*	50	35	bc	b	6.1
	Ilfracombe	-	50	37	f.b	b.bc	5·7
	Weston-super-Mare ...	-	48	38	f.m	b	5.0
	Buda	-	52	33	om.bc	b	6.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 A.M. To-Day.)	Temperature. In Screen. Min. °F. (24 hours ended 9 A.M. To-Day.)	Temperature. Min. on Grass. °F. (24 hours ended 9 A.M. To-Day.)	Rainfall. mm.§ (24 hours ended 9 A.M. To-Day.)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	45	78	7·1	68	40	31	-	b	b bz	bz.om
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	49	72	7·2	41	39	34	-	b	b	b.u
Camden Sq. (Brit. Rainfall)	47	71	7·2	67	40	34	-	bm.b	b	*
Hampstead (Reservoir) ...	*	73	10·6	66	38	29	-	b	b	0
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	7·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	44	73	7·8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1182 Joules	25·3 Milliwatts.	57 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*				*			*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	69	38	29	bz.b	m b	b	*

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

4th-5th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.24 / 5.21	11·56 / 11·56	6·29 / 6·31
Greenwich	5.32 / 5.30	12. 3 / 12. 3	6. 35 / 6. 37
Wick	5. 35 / 5. 32	12 .15 / 12 .15	6.56 / 6.59
Valencia	6.13 / 6.11	12 .44 / 12 .44	7.16 / 7·17

NOTES ON YESTERDAY'S WEATHER.

Temperature varied greatly, from 47° at Deerness to 69° in London. Showers occurred in several localities. Bright sunshine ranged from none at Birr Castle to 11½ hours at Hastings and Lowestoft.

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

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

+ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 96

Wednesday, 5th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1005·1	###	–	0	c	1016·4	+5	39	-3	N	5	N	bcq	5	3	47	37	om	cp	bcqp	*
	Deerness (Orkney)	1005·1	###	NW	5	c	1017·1	*	38	-2	NNW	7	NW	cp	4	2	47	38	bc	bcp.c	cp.c	6·6
	Stornoway ...	1012·2	###	NNW	6	bcqp	1023·2	+4	39	-2	NE	4	–	cq	4	2	47	38	bcpq	bcpq	bc.cqp	6·2
	Castlebay (Barra Isd.)	1011·3	45	NW	6	cp	1023·9	+3	41	+1	N	3	–	b	3	1	47	40	cp.c	c.bp.	cp.c.b	3·9
	Glasgow ...	1011·8	43	WNW	4	b	1021·1	+5	37	-1	–	0	N	b	*	–	49	35	c.o.c.bc	bc.b.	bmx	7·0
	Eskdalemuir ...	1012·2	43	WNW	4	bc	1020·1	+6	38	+1	N	2	–	bmx	*	1	49	34	o.cp.bc	bc.s.bc	bc.b.	5·7
	Malin Head ...	1015·6	43	NNW	6	bcqp	1022·3	+5	44	+2	N	4	NW	bcq	5	0·3	43	40	bcqp	bcqp	bcqp	6·5
	Blacksod Point	1021·3	41	N	6	bcmp	1026·0	+3	43	+1	N	5	N	bcp	4	2	46	37	bcp.	bcmp	cmp.bc	*
	Valencia ...	1024·0	45	NNW	5	c	1026·9	+2	44	+1	N	5	N	cp	4	2	49	40	c.bcp	cp	c.bp.bc	7·2
	Roche's Point	1021·6	46	N	4	b	1024·4	*	42	+2	NNW	4	N	b	4	0·4	50	40	bc.cp	bc.cp.b	b.	*
	Birr Castle ...	1021·5	43	NW	3	c	1024·5	*	38	+1	NW	2	–	b	*	1	49	35	cph	cph	bx.	6·9
	Donaghadee ...	1015·0	43	NW	4	bcm	1021·1	+4	42	+5	NW	5	NW	bcq	4	1	47	36	cqph	bcmp	bcp.bq	*
	Liverpool (Bidston)	1015·1	42	W	4	c.	1018·9	+4	41		NW	1	NW	c	2	1	46	39	bm	bc	cp.bc	9·3
	Holyhead ...	1016·0	###	NW	5	c	1020·1	+4	43	+3	NNE	6	–	bq	5	0·4	47	40	b.bc	bc.cp.o	bc.cp.b	8·7
	Pembroke (St. Ann's)	1018·8	###	NW	3	c	1020·0	+2	43	+1	N	5	N	cqp	*	3	49	39	b	b.bc.cq	cqp	8·9
	Scilly (St. Mary's)																					
	Falmouth ...	1019·4	45	NNW	4	bc	1020·2	+1	42	0	N	4	–	r	*	2	50	39	b.bc	cpq.bc	b.bc.cp	10·7
	Jersey (St. Aubin)	1017·3	48	NW	3	b	1017·0	*	44	-2	N	3	N	c	3	–	52	42	o.bc.b	b.	bc	9·3
	Portland Bill ...	1016·4	48	NNW	4	b	1017·3	+1	40	-4	NNW	3	–	b	2	–	51	39	bc	bc	bc.b	*
	Dungeness ...	1014·4	49	NW	1	c	1014·3	0	38	-4	NW	3	W	cq	2	–	50	36	o.c	c.bc.c	bc.bcq	*
	Dover	1014·4	46	NNE	1	c	1015·4	+2	39	-4	NW	4	NW	b	2	–	51	36	q.b.bc.c	c.bc.c	c.bc.b	4·3
	Wick	1006·2	44	WNW	3	c	1018·7	+4	40	+1	N	4	–	bc	4	2	51	37	p.bc	bcqmp	bcqp	*
	Nairn	1009·1	43	W	3	cdq	1021·2	*	39	-1	NNW	2	–	bc	3	2	49	38	bcdq	phq.bc.	dqpq.ng	8·5
	Aberdeen ...	1008·4	49	W	4	b	1018·5	+5	41	0	NW	4	–	bc	3	2	52	38	b.bc.c	c.o.b.	bc.cp	7·8
	Leith	1010·6	48	NW	1	c	1020·1	+2	42	+3	NNW	2	N	b	3	–	50	38	bc.o.c	b	c.bc.b	*
	Tynemouth ...	1010·5	50	WNW	3	bcm	1019·2	?	42	+2	NNW	4	N	cq	4	1	51	35	bc	bc	cmp	*
	Spurn Head ...	1013·1	46	NW	4	b	1016·7	+2	38	-2	NW	4	NW	bc	4	–	50	36	o.bcq	b.	bcq	8·4
	Yarmouth ...	1013·2	###	NE	2	bc	1015·5	+2	36	-4	NW	2	–	bm	2	–	51	35	bc	bc	bm	4·9
	Clacton-on-Sea	1013·9	50	WNW	2	c	1015·8	+2	38	-4	NNW	3	–	b	1	–	51	35	bm.o.c	c.bc.c	c.bm.q	2·7
	Nottingham ...	1011·2	48	WNW	3	c	1017·5	*	39	-4	N	4	–	b	*	–	51	35	bc.c	c.bc	c.b.	7·3
	Benson (Oxon.) ...	1014·9	48	NW	2	c	1017·7	+2	33	-9	–	0	–	c	*	1	50	31	bc	c.	b.p	*
	Sth Farnborough	1011·7	49	NW	2	bc	1016·6	+2	38	-5	NW	1	–	bw	*	–	53	36	c.bc	bc.c	c.bc.b	7·3
	London (Kew Obsy.)	1015·0	50	NNW	2	c	1017·2	+3	39	-5	N	1	N	b	*	1	51	38	o.c	c.bc.c	c.pr.b	6·9
NORTHERN EUROPE.	Spitsbergen ...	1016·0	-23	SE	1	b	1015·7	+1	-24	+3	–	0	*	b	*	*	-15	-34				
	Vardö	1008·1	16	N	5	o	1016·0	+5	19	+1	–	0	–	s	8	*	21	14				
	Bodö	1005·2	32	N	2	b	1011·4	+3	25	-12	E	2	–	b	1	–	37	21				
	Christiansund	1003·0	37	SW	3	r	1007·9	+3	36	-3	NE	3	–	s	3	16	44	36				
	Skudesnaes ..	1006·1	37	–	0	b	1009·6	+3	41	+2	SE	2	–	o	2	3	44	37				
	Færder (X Tacia Fjord)																					
	The Scaw (Skagen)	1014·8	43	WSW	1	m	1007·9	+4	39	-2	WNW	3	–	b	3	–	45	36				
	Blaavands Huk	1007·7	39	NW	2	f	1013·0	+1	37	-2	NNW	1	–	f	1	–	46	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karistad														*							
FRANCE, &c.	The Helder ...	1012·3	43.	NW	3	c	1013·9	+1	43	-3	SW	1	W	bc	1	–	52	37				
	C. Gris Nez ...	1014·6	###	N	1	bc	1014·7	+1	42	-3	N	4	*	b	3	–	48	41				
	La Hève	1015·5	46	NW	2	bc	1015·0	*	46	0	NNE	2	*	m	2	–	54	43				
	Brest (St. Mathieu)	1020·7	47	NNW	5	bc	1019·5	+2	43	-3	N	4	*	c	3	3	57	39				
	Rochefort (Ile d'Aix)	1014·9	50	N	5	o	1016·6	0	47	+4	N	3	*	b	*	–	47	43				
	Biarritz	1017·1	51	WNW	3	o	1017·7	+2	47	-7	W	4	*	o	4	11	54	45				
	Paris	1013·0	46	NE	1	o	1014·0	+2	43	-2	N	2	–	o	*	9	50	41				
	Belfort	1012·6	58	SSW	4	c	1013·3	*	47	-3	–	0	*	o	*	1	65	46				
	Lyons	1013·0	56	SW	2	o	1012·0	*	49	-1	SW	1	*	r	*	–	67	46				
	Nice	1016·0	48	–	0	r	1013·9	+2	51	-2	–	0	*	b	2	37	59	45				
	Perpignan ..	1013·0	54	–	0	o	1014·1	+1	50	-2	WNW	3	–	o	*	2	64	46				
	Sanguinaire ...	*	61	SE	3	o	*	*	57	0	SE	3	*	o	3	–	64	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·5	50	NE	6	o	1023·4	+2	45	-9	NNE	1	–	o	3	1	55	43				
	Madrid (8 a.m.)	1013·3	57	E	1	b	1016·2	0	46	+1	NE	1	NE	bc	*	–	57	43				
	Lisbon (7 a.m.)	1013·5	66	NNW	4	b	1013·2	+2	54	-1	NNE	4	–	bc	5	–	70	54				
	Gibraltar	?1016·6	58	E	4	b	1011·8	*	57	0	E	4	*	b	1	–	61	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1015·5	+1	59	-2	ESE	4	–	o	2	–	64	57				
	Azores (Horta, 8 a.m.)	1026·0	*	SE	4	c	1027·9	+1	57	0	ENE	4	*	o	2	–	64	57				
	Madeira (Funchal)	1017·5	63	NE	3	bc	1018·1	0	55	0	NE	3	–	b	2	–	64	55				
YESTERDAY'S REPORTS		3rd ..., 8 P.M. G.M.T.					4th April ..., 7 A.M. G.M.T.															
ITALY.	Venice	1019·4	57	–	0	b	1019·0	+1	56	+1	–	0	*	b	2	–	*	*				
	Turin	1018·7	59	–	0	b	1019·4	0	54	0	–	0	*	o	*	1	*	*				
	Viesti.	1020·0	57	–	0	o	1020·0	+2	55	0	–	0	*	b	1	–	*	*				
	Pesaro	1019·9	52	–	0	b	1019·1	+1	50	+4	S	2	*	b	1	–	*	*				
	Leghorn	1018·8	61	–	0	b	1018·0	+1	59	0	–	0	*	bc	3	–	*	*				
	Rome	1019·1	61	–	0	bc	1019·7	+1	55	0	–	0	*	bc	*	–	*	*				
	Brindisi	1019·9	57	–	0	o	1020·4	0	50	-7	SSE	2	*	b	1	–	*	*				
	Cagliari	1015·7	70	ESE	4	bc	1015·9	0	64	+1	NE	4	*	c	3	–	*	*				
	Palermo	1019·9	69	S	5	b	1019·7	+1	61	-3	–	0	*	b	1	Trace	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.0 a.m. today

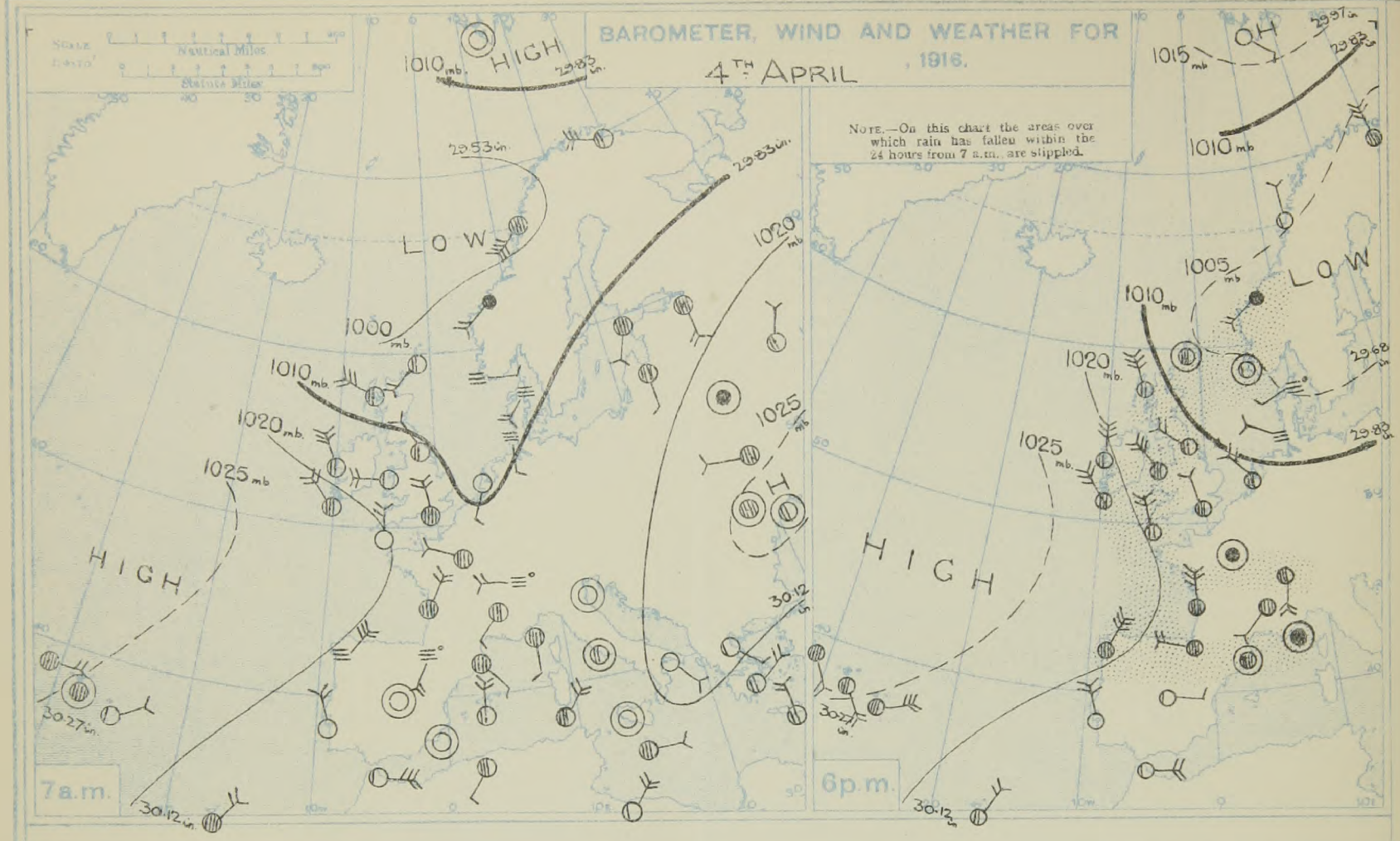
10,000 feet	NE by N	9	miles per hour
8,000 "	N by E	13	" "
6,000 "	NW "	11	" "
1,000 "	N by W	13	" "
Surface	NNW	7	" "

GALES
Duration and Extreme Force in British Islands.

Deerness
4th 11 p.m. NNW 8.

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

BAROMETER, WIND AND WEATHER FOR 4TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0	a, b	Moderating Northerly breezes ; fine
1		
2	a, b	
3		
4	a, b	generally, but slight local showers and mist ;
5		
6	a, b	
7	a, b	moderate day temperature, cool night.
8	a, b	
9	a, b	
10	a, b	
11	Western Channel and Bay	Moderating Northerly breezes; sea moderate; fine generally, local mist; cool.

FURTHER OUTLOOK.

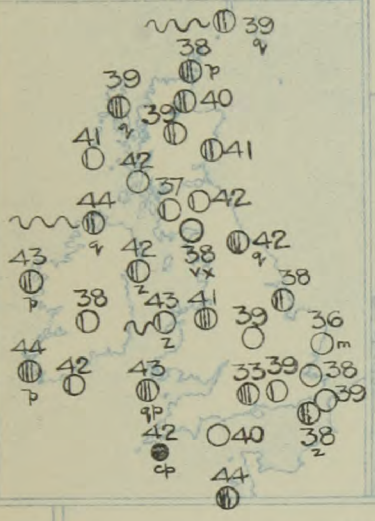
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 5TH APRIL, 1916.

GENERAL INFERENCE.

The conditions will be governed by the Atlantic high pressure system.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale 1:12,500,000
Nautical Miles
Statute Miles

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

HIGH

LOW

1025 mb.
1020 mb
1015 mb.
1010 mb.
29.83 in.
30·42 in.
30·12 in.
29·97 in.
40°
50°
60°
Barometer
Generally

Issue No. 19.858. **DAILY WEATHER REPORT.** Wednesday, 5th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	3rd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	4th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel												*				*	
Velikieluki	1019.3	32	–	0	b	1021.0	–	34	-2	S	2	*	f	*	–	*	31
Gorki	1019.9	39	NW	2	o	1022.1	+1	36	+6	–	0	*	r	–	–	*	34
Hangö						1011.5	-3	34	0	SSW	2	*	o	–	–	*	30
Riga	1019.8	41	–	0	b	1018.0	-1	39	+2	S	1	*	o	–	–	*	36
Petrograd	1018.0	34	W	2	b	1015.0	-3	36	+2	S	3	–	o	*	–	39	32
Moscow	1017.1	36	WNW	2	r	1023.0	+4	30	+3	NNE	1	*	bc	*	1	*	28
Kiev	1024.0	46	WNW	1	b	1023.9	0	43	–	WNW	2	*	o	*	–	*	34
Kharkov	1025.0	41	NW	2	b	1025.3	+1	37	+5	WNW	1	*	m	*	–	*	32
Kishinev	1025.7	46	–	0	b	1026.1	0	36	-7	–	0	*	o	*	–	*	36
Elisabetgrad ...	1025.6	39	–	0	b	1025.9	0	48	+16	–	0	*	bc	*	–	*	30
Nicolaiev	1024.2	46	–	0	b	1025.0	*	34	-3	–	0	*	bc	o	–	*	34
Odessa	1025.5	46	WSW	2	b	1025.5	0	37	-4	NW	2	*	bc	o	–	*	37

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	47	37	bcp	bcp	2.2
	Banff	–	50	45	c	bc.c	9.8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	49	37	bc.b	b.bc	10.7
	Skegness						
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	2	48	40	c.bc.b	bcp bc	11.0
Midlands	Buxton						
	Leamington Spa	–	51	40	c.bc	c.bc	6.4
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	0.1	51	39	bc	bc	9.2
	Colwyn Bay	4	48	39	bc	bc.o	7.2
	Llandudno	4	47	39	b	b.bc	8.2
	Aberystwyth	3	46	42	r.o.c	c.bc	6.0
	Tenby	–	54	31	b	b	10.0
England, E.	Lowestoft	–	49	36	o.c	c	3.9
	Felixstowe	–	52	46	bc.o	bc	3.0
	Walton-on-Naze						
	Southend-on-Sea	–	53	40	o.c	c.c.bc	3.9
England, S.E.	Margate	–	50	42	o	b	2.8
	Ramsgate	–	49	41	o.c	c	4.5
	Hastings	–	51	42	b.bc.o	bc.c	4.4
	Eastbourne	–	53	43	b.bc	bc	3.1
	Seaford	–	53	38	c	bc	6.0
	Brighton	–	54	42	c.bc.c	c	7.0
	Worthing	–	54	41	bc	bc	7.6
	Littlehampton	–	54	42	b	b.bc	8.3
	Bognor						
	Southsea						
	Bournemouth	–	53	41	b	b	11.0
England, S.W.	Weymouth	–	53	41	z.b	b.bc.bz	10.5
	Torquay	–	52	43	b	bc	11.3
	Paignton						
	Penzance	–	51	43	bc	bc	11.0
	Newquay	*	47	43	b	b	10.1
	Ilfracombe	–	47	40	b	b.bc.c	10.0
	Weston-super-Mare ...	–	49	39	b	b.bc	9.5
	Bude	–	49	40	z.bc	b	10.4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	54	75	2.8	52	37	30	–	o	bc.b	c or b
City (Bunhill Row)	*	*	3.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	50	69	3.0	57	38	34	–	bc	bc	bcu.gm
Camden Sq. (Brit. Rainfall)	49	70	3.8	56	36	31	–	o.c	bc	*
Hampstead (Reservoir) ...	*	69	4.4	52	33	24	–	bx	bx	b
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	4.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	52	67	3.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
822 Joules	17.5 Milliwatts.	66 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	54	41	32	b	o.c	bc.c	*

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

5th–6th April, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5.21 / 5.18	11.56 / 11.56	6.31 / 6.33
Greenwich	5.30 / 5.27	12.3 / 12.3	6.39 / 6.37
Wick	5.32 / 5.29	12.15 / 12.13	6.59 / 7.1
Valencia	6.11 / 6.8	12.44 / 12.44	7.17 / 7.19

NOTES ON YESTERDAY'S WEATHER.

Afternoon temperature showed a decided decline, no stations reaching 55°. Slight rain fell in many places. Sunshine ranged from 2·2 hours at Oban to 11·3 hours at Torquay.

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

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

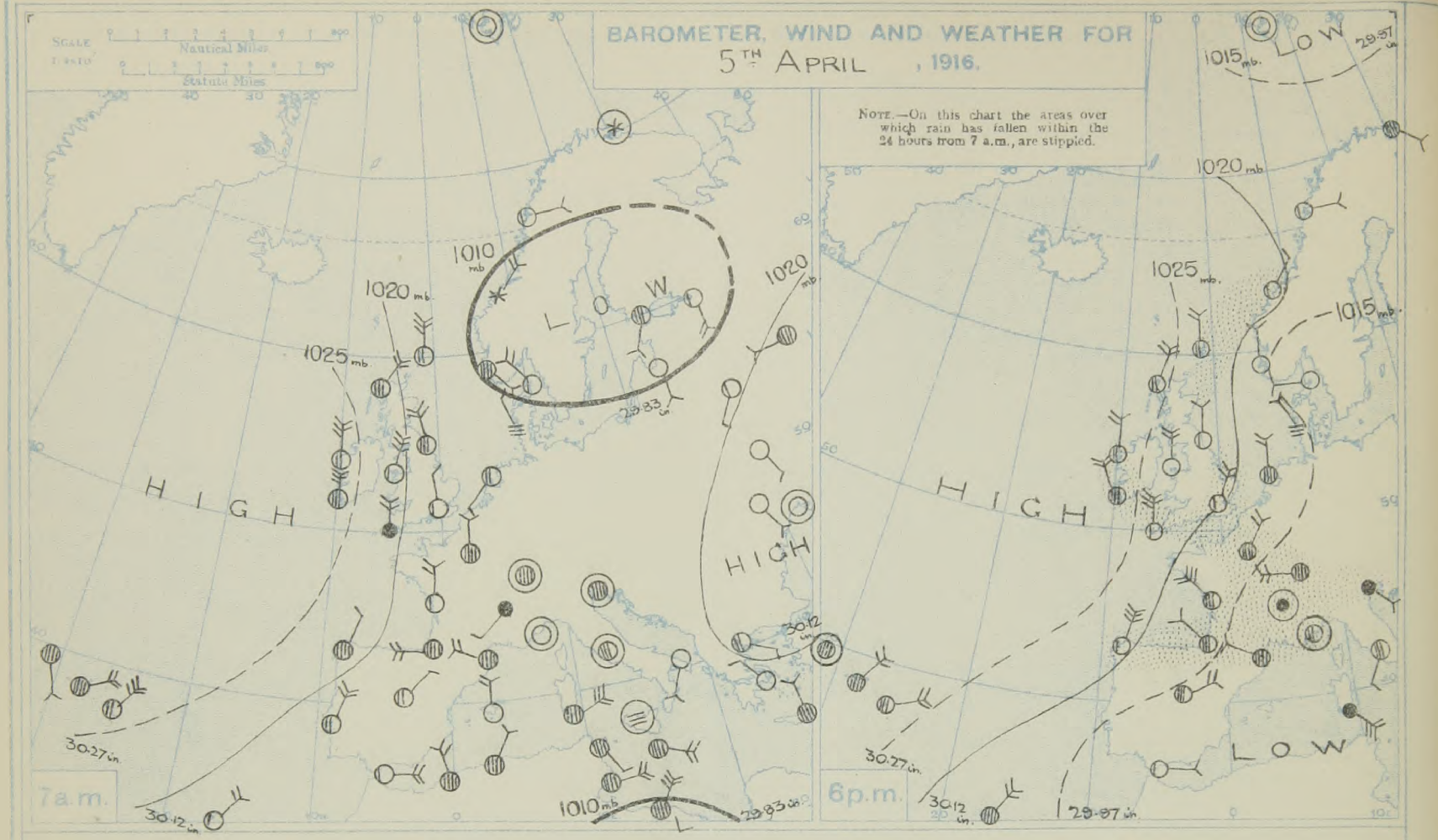
‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 97

Thursday, 6th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1022·4	38	N	3	bc	1020·5	-1	38	-1	SSE	2	-	c	2	0·2	44	36	c	bcp.	c	*
	Deerness (Orkney)	1023·3	38	NNW	5	c	1019·6	*	37	-1	S	4	S	b	4	-	41	33	cp.o	o.c	c.bc.b	1·5
	Stornoway ...	1025·2	40	NNE	4	bc	1017·7	-3	39	0	S	4	-	b	4	-	43	29	c.cq	o.bc	b	3·8
	Castlebay (Barra Isd.)	1025·5	43	N	2	bc	1018·3	-3	43	+2	SSE	4	S	cr	5	-	46	37	b	bc	bc	11·9
	Glasgow ...	1023·4	46	NE	2	c	1021·7	-2	34	-3	E	1	-	o	*	-	50	32	b.bc.c	c.bc.c	c.bm.o2c	6·8
	Eskdalemuir ...	1023·9	40	ENE	3	bc	1025·1	-1	31	-7	-	o	-	o	*	-	48	25	bc.c.bc	b	bc.bc	7·8
	Malin Head ...	1024·5	44	N	1	b	1019·9	-4	36	-8	SSE	3	S	bcc	2	-	47	35	bc	b.	bc	11·7
	Blacksod Point	1026·4	44	N	3	bc	1017·9	-5	42	-1	SW	5	SW	cq	3	0·2	48	38	bc	bc.	bc.cm	*
	Valencia ...	1027·1	46	NNW	4	c	1021·7	-3	35	-9	SE	2	W	cj	3	0·3	50	31	cph	c.bc	bc.b.bc	4·7
	Roche's Point	1025·7	50	NNW	2	c	1023·2	*	40	-2	N	1	-	o	1	Trace	53	38	bc.c	bc.c.	c.b.o	*
	Birr Castle ...	1025·2	47	NW	2	c	1021·4	*	37	-1	S	1	S	c	*	-	53	33	c	c	c	7·3
	Donaghadee ...	1024·1	44	N	4	bz	1021·4	-2	34	-8	WSW	2	SW	bcmx	1	-	47	33	bcz	bz	bcmx	*
	Liverpool (Bidston)	1023·1	43	WNW	2	bc	1022·5	-1	37	-4	ESE	2	SE	o	2	-	48	37	bc	b	e.o	7·4
	Holyhead ...	1023·5	46	N	4	bz	1022·0	-1	38	-5	WSW	2	-	bm	1	Trace	50	37	b.bc.b	bz	bx.bm	11·5
	Pembroke (St. Ann's)	1023·5	45	N	4	b	1023·0	o	37	-6	NE	2	NE	c	o	-	50	36	cq.bc	bc	b.bc	8·0
	Scilly (St. Mary's)																					
	Falmouth ...	1021·4	47	N	5	bzq	1021·9	o	40	-2	-	o	-	bc	*	1	50	37	cp	bcq.bq	b.bc	7·1
	Jersey (St. Aubin)	1018·3	47	N	3	b	1019·3	*	43	-1	NE	4	NE	c	3	3	48	42	c.cp.bc	bc.b.	cph.c	7·4
	Portland Bill ...	1019·5	48	NNE	4	bc	1021·5	o	38	-2	NNE	4	NE	c	3	-	43	36	b.bc	bc	bc.c	*
	Dungeness ...	1017·9	46	NE	5	bc	1019·7	+1	41	+3	N	3	-	cp	2	1	52	36	bc	bc	bc.cp	*
	Dover	1018·7	42	NNE	5	b	1019·8	+1	40	+1	NNE	3	NE	cd	4	1	53	37	b	b.	bc.cr	8·7
	Wick	1023·7	39	NNW	3	o	1019·8	-3	37	-3	SSE	2	-	bc	2	0·4	42	28	p.cp.om	og	og.bc.	*
	Nairn	1024·3	40	NNE	1	c	1020·0	*	30	-9	-	o	-	b	1	-	44	26	bc.cq	cq	c.bcc	1·9
	Aberdeen ...	1023·9	41	NNW	3	bc	1021·7	-1	37	-4	SSW	1	W	cj	2	1	45	34	bc.cqp	cqp.bc.	cl.cj	5·1
	Leith	1023·9	43	ESE	1	c	1021·7	-1	37	-5	ESE	1	-	o	2	-	48	34	b.bc.c	b	c.bc.b	*
	Tynemouth ...	1023·5	42	N	2	b	1023·0	?	34	-8	NW	2	N	bcm	3	-	44	33	cq	bcq	bcm	*
	Spurn Head	1021·3	40	NNE	6	bc	1022·7	o	40	+2	N	4	-	bcqp	4	2	46	37	bcq	bcq	bcqp	5·7
	Yarmouth ...	1019·7	43	NE	4	b	1021·3	+2	39	+3	NE	3	NE	bcp	3	Trace	48	36	bm	om.bm	bm.om	7·0
	Clacton-on-Sea	1019·4	45	NNW	3	c	1021·0	o	45	+7	NNW	3	NE	c	1	1	51	37	bz.bc	bc.c	cp	8·4
	Nottingham ...	1023·1	45	NE	3	b	1022·9	*	38	-1	NNE	2	N	c	*	Trace	50	34	bc.cp	c.b.	b.	5·1
	Benson (Oxon.) ...	1020·8	44	NNE	3	bc	1022·5	o	36	+3	NNE	2	-	c	*	0·2	49	29	bc	bcp	b	*
	Sth Farnborough	1019·8	44	NNE	4	c	1021·5	o	37	-1	NNE	1	-	o	*	1	52	33	b.c.bc.c.o	cqph.o	bc.b.p.o	6·5
	London (Kew Obsy.)	1020·3	45	NNE	4	b	1022·0	+1	39	o	NNE	2	NE	o	*	Trace	50	36	b.bc.c.o	o.c.bc.b	b.o	6·9
NORTHERN EUROPE.	Spitsbergen ...	1014·0	-20	-	o	b	1013·9	+1	-6	+18	SE	1	*	o	*	*	-6	-14·6	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.7 a.m. today			
	Vardö	1018·9	21	SE	2	o	1018·6	o	19	o	WSW	1	-	c	o	*	21	12				
	Bodö	1017·2	27	E	2	b	1021·3	+2	23	-2	E	2	-	c	1	?	30	19				
	Christiansund	1020·3	36	NE	1	b	1022·3	o	32	-4	SE	3	-	b	3	6	37	28	1,000 feet NE 12 miles per hour			
	Skudesnaes ..	1014·9	37	N	3	b	1019·4	o	37	-4	NE	3	-	b	1	-	46	34				
	Færder (X'iania Fjord)																		Surface N by E 7 " "			
	The Scaw (Skagen)	1013·7	39	W	1	b	1020·7	+5	39	o	E	2	-	b	2	-	48	28				
	Blaavands Huk	1015·5	37	NNW	2	f	1020·0	+3	36	-1	N	1	-	f	o	-	43	30				
	Haparanda ...														*				GALES Duration and Extreme Force in British Islands.			
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1017·2	41	N	3	o	1020·0	+1	43	o	N	2	-	c	1	-	48	41	Aberdeen			
	C. Gris Nez ...	1018·3	43	NE	5	c	1019·1	+1	42	o	N	5	*	c	4	-	50	41	5th 8 a.m. Gust NW 18 m.p.s.			
	La Hève	1015·5	48	N	4	bc	1018·6	*	41	-5	NE	3	*	bc	2	-	52	39				
	Brest (St. Mathieu)	1021·1	46	N	3	c	1020·2	o	39	-4	NE	2	*	b	2	-	54	39				
	Rochefort (Ile d'Aix)	1015·9	47	NW	5	c	1016·0	o	43	-4	NNE	4	*	o	*	-	57	41				
	Biarritz	1015·7	50	NW	2	c	1014·3	o	43	-4	SSW	3	*	o	3	2	55	41				
	Paris	1015·9	46	NE	3	o	1017·0	o	41	-2	NE	3	-	o	*	1	50	41				
	Belfort	1014·3	49	W	4	o	1015·8	*	45	-2	E	6	*	f	*	1	59	41				
	Lyons	1014·0	48	-	o	r	1015·4	*	42	-7	-	o	*	r	*	3	56	42				
	Nice	1013·1	53	-	o	bc	1011·1	o	56	+5	SE	4	*	o	4	Trace	64	48				
	Perpignan ..	1013·9	48	WNW	2	o	1011·7	o	48	-2	WNW	2	E	o	*	Trace	59	45				
	Sanguinaire ...	*	59	N	2	c	*	*	58	+1	N	1	*	c	2	-	66	52				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·6	52	NNE	6	b	1020·2	o	46	+1	NNE	1	-	b	4	2	54	43				
	Madrid (8 a.m.)	1011·0	54	ENE	3	c	1006·4	o	41	-5	N	1	-	b	*	?	57	41				
	Lisbon (7 a.m.)																					
	Gibraltar	1011·5	57	E	2	b	1008·1	*	55	-2	W	4	*	m	o	-	64	58				
	Malta (8 a.m.) ...	*	*	*	*	*	1005·6	-1	57	-2	ESE	6	-	r	6	25	63	55				
	Azores (Horta, 8 a.m.)	1029·0	*	NNE	4	o							*									
	Madeira (Funchal)	1018·4	61	NE	4	o	1020·4	o	55	o	NE	5	NE	o	4	-	64	55				
YESTERDAY'S REPORTS		...4th..., 8 P.M. G.M.T.					5th April, ...7 A.M. G.M.T.															
ITALY.	Venice	1016·3	59	-	o	b	1014·4	o	54	-1	-	o	*	o	3	Trace	*	*				
	Turin	1016·0	50	-	o	r	1014·6	o	50	-4	-	o	*	o	*	20	*	*				
	Viesti	1018·4	59	-	o	b	1016·0	o	59	+4	S	2	*	b	2	-	*	*				
	Pesaro	1016·3	55	-	o	b	1015·1	o	50	o	S	2	*	c	1	1	*	*				
	Leghorn	1017·5	61	-	o	b	1015·1	o	59	o	-	o	*	o	o	Trace	*	*				
	Rome	1018·0	59	-	o	b	1016·6	o	52	-3	N	1	*	c	*	-	*	*				
	Brindisi	1014·6	50	SSW	4	b	1016·3	o	52	+2	SW	2	*	b	1	-	*	*				
	Cagliari	1015·8	66	ENE	4	o	1013·2	o	63	-1	ENE	5	*	o	4	-	*	*				
	Palermo	1018·0	63	-	o	b	1016·1	o	63	+2	-	o	*	f	1	-	*	*				

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



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b, 1	Freshening Southerly and South-Westerly breezes; cloudy to dull, some rain, coast mist or fog; milder.
2 a, b, 3, 4 a, b, 5	Light Northerly and North-Easterly breezes, becoming variable, then South-Westerly and freshening; cloudy to dull, some rain, coast mist or fog; milder.
6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b	Same as Nos. 0 and 1.
Western Channel and Bay 11	Light North-Easterly to variable breezes; sea moderate; fine to cloudy, some showers, local mist or fog; cool.

FURTHER OUTLOOK.

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

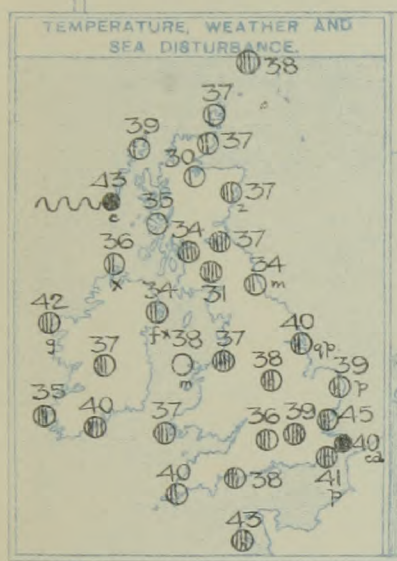
NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 6TH APRIL, 1916.

GENERAL INFERENCE

An Atlantic disturbance is likely to bring about a less settled type of conditions over the country generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

WIND.—Direction is shown by arrows flying with the wind.

Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

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

WEATHER.—Shown by the following symbols :—

○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈.

SCALE 1:12×10⁶

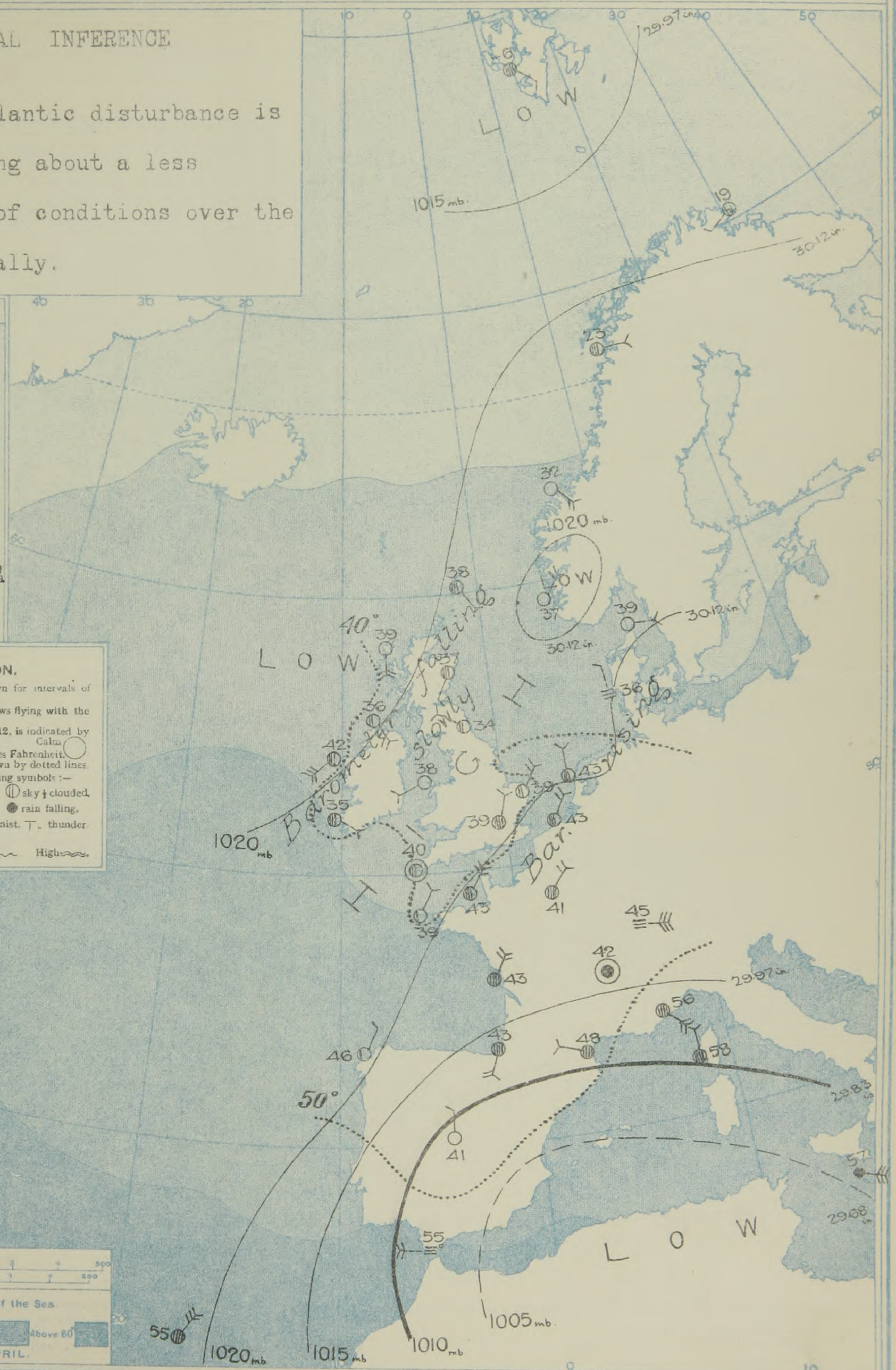
Nautical Miles 0 100 200 300

Statute Miles 0 100 200 300 400 500

Normal Temperature of the Sea

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

Scale of Tints for APRIL.



Issue No. 19,859. **DAILY WEATHER REPORT.** Thursday, 6th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	4th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	5th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel												*				*	
Uleaborg												*		*		*	*
Gorki	1021·3	34	-	0	bc	1019·9	+1	37	+1	SW	1	*	b	0	-	*	32
Hango	1007·4	36	SSW	2	c	1003·1	+1	34	0	SSW	2	*	c	*	-	*	30
Riga	1011·8	48	S	1	b	1009·2	0	46	+7	S	2	*	b	*	-	*	*
Petrograd	1010·6	41	SW	3	o	1007·0	-2	41	+5	S	3	W	b	*	-	41	36
Moscow	1022·9	37	SSW	3	o	1021·5	0	36	+6	W	2	*	o	*	-	*	36
Kiev	1023·0	50	S	2	b	1023·4	0	45	+2	SSE	1	*	b	*	-	*	43
Kharkov	1022·3	50	SW	2	b	1021·0	*	45	+8	NE	2	*	b	*	-	*	*
Kishinev	1024·0	48	S	3	b	1024·7	+1	37	+1	SE	2	*	b	*	-	*	34
Elisabetgrad ...	1024·2	48	ESE	1	b	1025·3	+1	36	-12	-	0	*	b	*	-	*	32
Nicolaiev	1023·5	48	-	0	b	1023·9	*	34	0	-	0	*	b	0	-	*	34
Odessa	1024·3	48	SSW	2	b	1023·9	0	41	+4	SSW	2	*	b	0	-	*	39

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	49	40	b	b	8·2
	Banff	1	43	40	bc	bc	0·9
	St. Andrews	-	49	33	*	*	4·3
Eng. N.E.	Harrogate	0·3	45	32	o c bc	bc c	3·5
	Skegness	-	47	34	o. bc	bc ou	7·1
Eng. N.W.	Morecambe	-	50	38	bc	bc.c	7·0
	Blackpool						
	Southport	-	49	39	c bc b	bc.c.bc	8·7
Midlands	Buxton						
	Leamington Spa	-	49	32	c.bc	c.bc	4·8
	Malvern						
	Ross-on-Wye	0·4	49	33	bcp	bc	2·5
Wales.	Rhyl	1	46	39	p.bc	c	7·7
	Colwyn Bay	-	48	43	bc.b.c.b	bc.c.bc	7·5
	Llandudno	3	48	41	b	b	9·2
	Aberystwyth	1	47	42	r.o.c	c.bc	8·5
	Tenby	2	53	36	bc	b	8·5
England, E.	Lowestoft	-	53	35	bc.c	c.o.c	7·1
	Felixstowe	0·2	52	34	b.bc	bc.op	8·0
	Walton-on-Naze						
	Southend-on-Sea	-	52	36	b	bc.op	6·3
England, S.E.	Margate	-	47	40	b.bc	b.bc	6·5
	Ramsgate	-	48	38	bc	bc	10·3
	Hastings	1	52	38	op.bc.b	b.bc	9·1
	Eastbourne	1	53	39	b.bc	bcp	7·0
	Seaford	1	52	39	b	p	6·9
	Brighton	0·1	53	38	bc.o	or.c	7·7
	Worthing	-	51	38	b.bc	c	7·7
	Littlehampton	-	52	?	b	b.bc	8·4
	Bognor	-	52	36	bc	bc	8·3
	Southsea						
	Bournemouth	-	53	34	b	b.bc	10·0
England, S.W.	Weymouth	-	54	37	bc.b	b.bc.c	8·0
	Torquay	-	54	37	o.c.bc	bc.b	6·1
	Paignton						
	Penzance	1	50	42	bc	bc	8·0
	Newquay	*	47	41	bc	bc	7·0
	Ilfracombe	-	49	40	c.bc	bc	3·8
	Weston-super-Mare ...	-	50	37	bc.b	b.bc.b	3·5
	Bude	2	52	43	c	c	5·2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	63	84	7·1	53	37	28	-	b.bc	bc.c	c.op
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	77		52	38	36	-	bc u	bc	bc.ur.w
Camden Sq. (Brit. Rainfall)	61	78	7·9	55	36	31	0·3	b	bc	*
Hampstead (Reservoir) ...	*	81	8·9	50	34	25	-	b	c.b	o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	6.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	77	7·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1162 Joules	246 Milliwatts.	61 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain Fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	0·3	51	39	35	b	bc	b	*
Darwen to 9 p.m.								
Manchester ,,	-	49	36	*	bc cz	c.o.c	c.bc	3·2
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	52	38	29	b	b.o	c.bc	*

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

6th–7th April, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset 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.

Temperature remained below the normal in all districts. Light showers occurred in many places. Sunshine ranged from an hour at Banff to twelve hours at Castlebay.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 98

Friday, 7th April,

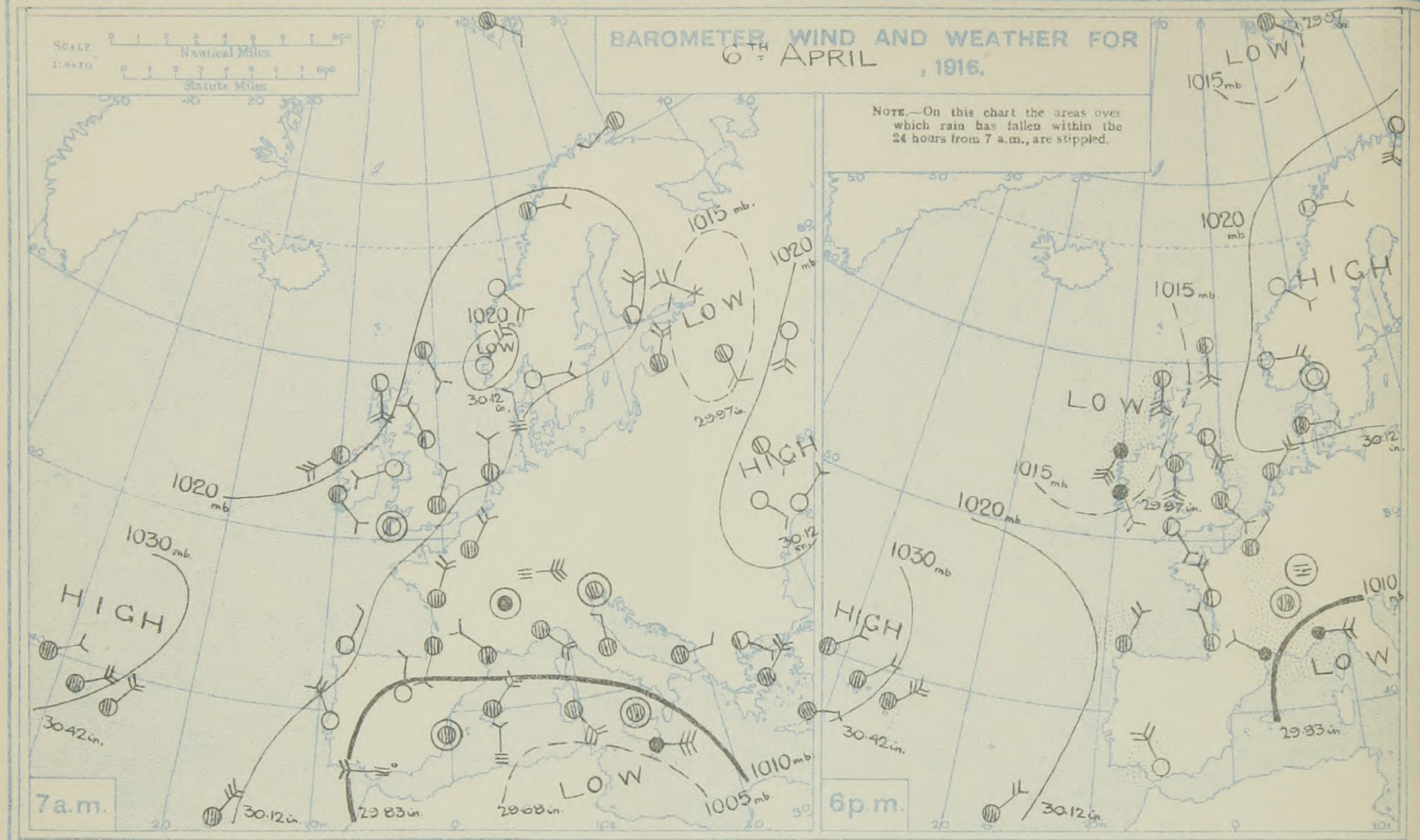
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·1	40	S	4	c	1017·4	0	41	+3	S	5	-	og	5	-	42	38	o	o	o	*
	Deerness (Orkney)	1014·2	40	SE	7	beg	1014·9	*	41	+4	SE	7	-	ogz	5	-	43	38	b.	b.bc	bc.c.o	11·4
	Stornoway ...	1012·0	45	S	6	beq	1013·3	+2	41	+2	S	4	-	odp	4	2	47	39	cq	c.beq	odp	7·8
	Castlebay (Barra Isd.)	1011·7	45	SE	4	om	1013·5	+2	43	0	S	4	-	r	5	3	45	41	c.o	om.	om.op.r	0·7
	Glasgow ...	1015·0	44	SSE	1	c	1016·3	+2	37	+3	E	2	-	omq	*	-	47	34	oz	cz	cz.omq	0·9
	Eskdalemoir ...	1016·4	41	SW	3	c	1016·9	0	34	+3	N	1	-	o	*	-	45	30	o	o.oz.c	o	1·9
	Malin Head ...	1011·5	47	S	4	cgq	1012·7	+2	39	+3	SW	4	-	om	4	0·4	52	36	beq	beq	omp	7·2
	Blacksod Point	1010·3	42	NNW	4	od	1011·3	+4	42	0	N	3	N	bc	3	1	45	39	cq	omd.	emp.bc	*
	Valencia ...	1012·2	43	SSE	3	r	1011·7	+3	44	+9	NNE	3	-	o	4	11	48	34	c.o	or	or.op	0·8
	Roche's Point	1015·0	46	SW	3	o	1011·7	*	42	+2	NNW	1	-	r	1	8	49	40	o.c	c.o.	or.op	*
	Birr Castle ...	1012·7	45	S	2	c	1013·1	*	39	+2	S	1	-	r	*	5	52	37	bc.c	c	or.	4·6
	Donaghadee ...	1011·4	45	S	4	beq	1011·6	+2	40	+6	SSW	2	-	cf	2	-	49	34	bcm	beq	ogm.cf	*
	Liverpool (Bidston)	1016·7	44	ESE	2	o	1015·7	o	38	+1	ESE	1	E	bc	1	-	48	37	om	o.c	o.c	0·4
	Holyhead ...	1015·6	44	S	4	omq	1011·3	o	39	+1	S	2	SW	cm	4	-	48	38	d.cmq	bc.c.oq	o.bcm	9·4
	Pembroke (St. Ann's)	1016·4	43	SSE	2	c	1011·6	+2	40	+3	ESE	3	-	b	?	1	45	?	c	c	c.bc	1·7
	Scilly (St. Mary's)																					
	Falmouth ...	1016·6	42	SSE	2	b	1013·5	+2	39	-1	ESE	2	-	b	*	-	47	38	bc.b	b.	bc.o.c.b	10·2
	Jersey (St. Aubin)	1015·9	45	ENE	3	c	1013·2	*	39	-4	NE	1	-	bm	1	Trace	47	36	c.opd.c	c	c.bmwx	8·2
	Portland Bill ...	1016·7	44	ENE	2	c	1013·7	o	41	+3	NE	2	-	b	2	-	45	38	bc.c	bc.c	bc.c.b	*
	Dungeness ...	1015·7	43	NE	3	o	1011·8	o	39	-2	NE	4	-	or	3	8	48	39	o.c	c.o	or	*
	Dover	1016·3	41	NNE	2	o	1013·1	+1	40	o	NW	4	NW	r	2	5	47	39	c.bc.c	c.o	or	3·6
	Wick	1013·8	42	SSE	4	c	1015·3	+1	40	+3	S	4	-	o	4	-	44	37	bc	bm.cm	bm.omq	*
	Nairn	1013·6	44	WSW	1	om	1014·8	*	37	+7	-	0	-	cm	1	-	52	29	b.bc	bc.cq	c.bcm	8·0
	Aberdeen ...	1017·1	40	SSE	3	b	1017·5	+1	40	+3	SSE	3	S	c	3	-	45	36	cz.bc	bc.c.b	bc.c	8·3
	Leith	1015·1	45	SW	1	c	1015·8	+1	38	+1	SE	1	-	o	2	-	45	36	o	o	o.cbcm	*
	Tynemouth ...	1017·9	40	SSE	5	cq	1016·3	-2	36	+2	-	0	-	omr	3	1	44	34	bcm	cq	omr	*
	Spurn Head ...	1019·2	40	ESE	3	cpr	1014·7	-1	39	-1	E	2	-	r	3	4	46	37	bc	cpr	bc.or	7·0
	Yarmouth ...	1018·2	41	ESE	2	o	1011·4	-4	40	+1	N	2	-	omr	2	11	46	39	bcp.bc	bc.o.	bc.omr	4·1
	Clacton-on-Sea	1017·5	43	ENE	2	c	1012·7	o	39	-6	NNW	2	N	r	1	6	45	38	c.bcr	bc.cr	cr.or	6·0
	Nottingham ...	1017·6	42	E	3	c	1014·8	*	37	-1	N	2	N	cm	*	-	?	?	bc	c	c.o	5·8
	Benson (Oxon.) ...	1016·6	45	NE	1	o	1014·4	o	36	o	NE	2	-	o	*	0·1	48	35	bc	c	o	*
	Sth Farnborough	1016·1	44	-	0	m	1013·6	o	37	o	NE	2	-	o	*	2	45	34	o	om	omr.o.bc	0·2
	London (Kew Obsy.)	1016·5	44	SE	2	om	1014·2	+1	36	-3	NNE	1	N	om	*	5	46	35	op.o	o.om	om.omr.om	0·1
NORTHERN EUROPE.	Spitsbergen ...	1014·9	0	SE	1	o	1003·8	-6	9	+15	SE	1	*	S	*	*	9	-8				
	Vardö	1021·2	16	SW	5	b	1024·0	o	25	+6	SW	5	-	bc	3	*	25	14				
	Bodö	1024·4	27	E	2	b	1023·7	o	32	+9	E	4	-	b	2	-	30	24				
	Christiansund	1021·2	39	SE	2	b	1023·4	+1	37	+5	SE	1	-	b	3	-	43	32				
	Skudesnaes ..	1022·4	39	E	3	b	1023·5	o	41	+4	ESE	2	-	b	2	-	45	39				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1024·7	37	-	o	b	?1024·6	+2	36°	-3	SE	4	SE	bc	4	-	41	36				
	Blaavands Huk	1021·6	43	E	2	o	1021·7	o	37	+1	ESE	5	-	o	5	Trace	45	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ..														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1017·6	43	NE	4	c	1012·0	-3	46	+3	E	4	S	bc	2	-	46	43				
	C. Gris Nez ...	1016·2	43	NE	5	o	1011·7	-1	43	+1	SSW	1	*	r	2	6	46	41				
	La Hève	1014·9	43	NE	2	o	1013·6	*	41	o	NE	2	*	c	2	-	55	39				
	Brest (St. Mathieu)	1016·0	47	NNE	3	b	1012·7	-1	41	+2	ESE	3	*	b	2	-	50	39				
	Rochefort (Ile d'Aix)	1014·0	49	NNW	3	bc	1012·6	o	42	-1	NE	3	*	bc	*	-	54	39				
	Biarritz	1014·7	50	NNW	2	c	1012·4	-2	46	+3	NNE	1	*	o	2	-	54	45				
	Paris	1014·3	46	NE	1	o	1012·4	+1	43	+2	-	0	-	o	*	1	48	41				
	Belfort	1012·3	55	-	*	m	1011·9	*	45	o	E	2	*	m	*	-	68	41				
	Lyons	1013·6	47	-	o	o	1010·3	*	47	+5	NNW	1	*	o	*	5	49	45				
	Nice	1009·0	60	E	4	r	1006·4	-2	58	+2	E	3	*	o	4	Trace	66	50				
	Perpignan ...	1010·9	45	WNW	2	r	1009·5	-1	43	-5	WNW	3	-	r	*	20	48	41				
	Sanguinaire ...	*	60	N	2	o	*	*	56	-2	NW	2	*	r	2	2	64	50				
SOUTHERN EUROPE	Corunna (7 a.m.)	1014·4	52	NNE	3	bc	1011·3	-2	48	+2	N	6	-	o	4	7	54	45				
	Madrid (8 a.m.)														*							
	Lisbon (7 a.m.)																					
	Gibraltar	1013·5	55	NW	4	b	1011·9	*	49	-6	NW	4	*	b	1	1	63	48				
	Malta (8 a.m.) ...	*	*	*	*	*	1002·1	+1	63	+6	SSW	4	-	c	3	Trace	63	57				
	Azores (Horta, 8 a.m.)	1031·0	*	NE	2	o							*									
	Madeira (Funchal)	1021·5	61	NE	3	o	1023·8	o	57	+2	NE	4	-	o	3	?	63	57				
YESTERDAY'S REPORTS		....5th...., 8 P.M. G.M.T.					6th April, ..., 7 A.M. G.M.T.															
ITALY.	Venice	1015·4	57	SSE	2	r	1011·2	o	54	o	-	o	*	c	2	3	*	*				
	Turin	1014·6	52	-	0	bc.	1015·4	o	48	-2	-	o	*	o	*	-	*	*				
	Viesti	1015·7	59	W	1	b.	1013·5	o	57	-2	SW	1	*	o	2	-	*	*				
	Pesaro	1015·0	57	SW	1	b	1011·0	o	55	+5	S	2	*	o	4	6	*	*				
	Leghorn	1011·7	59	-	o	b	1012·1	o	59	o	E	2	*	b	3	-	*	*				
	Rome	1013·9	59	SW	1	c	1010·8	o	57	+5	N	1	*	o	*	-	*	*				
	Brindisi	1016·7	55	SW	1	b	1011·2	o	55	+3	E	1	*	o	2	-	*	*				
	Cagliari	?	64	SE	5	?	1006·6	o	63	o	SE	5	*	o	2	8	*	*				
	Palermo	.	.	.	.	.	1008·7	o	59	-4	-	o	*	o	4	?	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

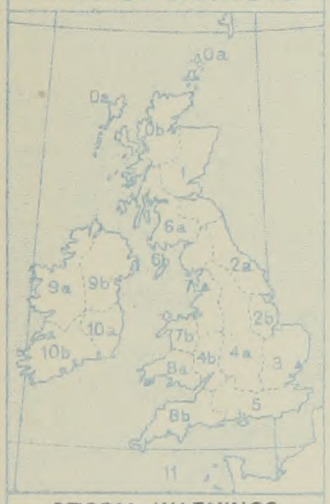
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b 1 2 a, b	Southerly breezes, variable later, mostly light to moderate; changeable, some rain; cool.
3 4 a, b 5	Light breezes, between East and North; dull to fair, some rain and mist; cool.
6 a, b 7 a, b 8 a, b	Same as Nos. 0 to 2.
9 a, b 10 a, b	Light variable breezes, mainly Northerly; dull to fair, some rain and mist; cool.
Western Channel and Bay 11	Northerly and North-Easterly breezes, fresh at times; sea moderate to rather rough; fair generally, local mist or fog; cool.

FURTHER OUTLOOK.

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

NAPIER SHAW. Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 7TH APRIL, 1916.

GENERAL INFERENCE.

The pressure distribution is very irregular, and variable weather conditions are likely to be general.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

SCALE 1:12×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

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

LOW
1005 mb.
1010 mb.
1015 mb.
1020 mb.
1025 mb.
HIGH
HIGH
LOW
29.83 in.
29.97 in.
30.12 in.
30.27 in.
29.68 in.
Barometer 40° falling slightly
Barometer 50° rising
But steady

Issue No. 19860.

DAILY WEATHER REPORT.

Friday, 7th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	5½ AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	6½ AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	°F.								
Archangel												*				*	
Velikie-luki						1013·2	0	43	–	S	4	*	C	*	–	*	*
Gorki ...	?	45	–	0	b							*				*	*
Hangö	1008·8	32	WSW	1	0	1020·8	+7	23	−11	NNE	4	*	b	–	–	*	*
Riga	1009·3	48	NNE	2	b	1016·2	+4	32	−14	NNE	4	*	0	–	–	*	32
Petrograd	1007·0	46	SW	3	b	1011·0	+5	36	−5	?WNW	3	–	? 0	*	–	46	34
Moscow	1021·0	45	S	2	b	1020·9	0	43	+7	SW	4	*	b	*	–	*	41
Kiev	1021·5	50	SSE	1	bc	1021·9	0	43	−2	SSE	2	*	b	*	–	*	43
Kharkov	1027·0	48	SE	2	0	1026·6	+1	45	0	SE	1	*	0	*	6	*	*
Kishinev	1022·0	50	SE	2	b	1023·0	+1	37	0	SE	1	*	b	*	–	*	37
Elisabetgrad ...	1023·1	46	–	0	b	1023·9	+1	41	+5	SE	1	*	b	*	–	*	37
Nicolaiev	1023·4	50	–	0	b	1022·6	*	39	+5	ENE	2	*	b	0	–	*	34
Odessa	1022·9	50	WSW	3	b	1022·6	+2	43	+2	ENE	2	*	b	0	–	*	–

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	44	31	bc	bc	5·4
	Banff	–	47	28	bc	bc	7·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	47	31	bc-c	c	3·5
	Skegness	–	45	33	ouprv.c	bc.b	10·6
Eng. N.W.	Morecambe	–	46	35	c	c.o	0·4
	Blackpool						
	Southport	–	50	34	o.c.bc	c.o	0·8
Midlands.	Buxton						
	Leamington Spa	–	48	30	t o bc.c	c	5·5
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	–	49	30	o	o	0·0
	Colwyn Bay	–	45	35	c	c.o	1·5
	Llandudno	–	46	34	o	o	1·1
	Aberystwyth	–	46	36	o.c	c.o	0·5
	Tenby	–	47	38	b	bc	8·5

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	0·3	45	39	c.o.c	o	5·2
	Felixstowe	1	46	35	bc	bc	6·6
	Walton-on-Naze	0·3	?	?	bc c b	b bc b c	8·1
	Southend-on-Sea	–	49	37	c.bc	c.bcv	4·6
England. S.E.	Margate	–	44	40	b bc	c.o	4·4
	Ramsgate	0·3	45	37	bc	c	4·1
	Hastings	1	47	37	o p.bc	c.o	2·2
	Eastbourne	–	46	?	o bc.b	o bc.o	1·5
	Seaford	–	47	36	c	c	1·4
	Brighton	0·1	48	36	c.o	o	1·7
	Worthing	–	47	34	c	c.o	0·8
	Littlehampton	–	47	34	o	bc.o	0·5
	Bognor						
	Southsea						
	Bournemouth	–	45	33	c.o	c.o	0·5
England. S.W.	Weymouth	0·3	48	33	c.bc	c.b.o	1·4
	Torquay	–	49	36	b.bc.b	b	6·7
	Paignton	–	47	34	b	b	10·4
	Penzance	–	49	38	bc	c	4·2
	Newquay	*	48	35	bc.	bc.	4·5
	Ilfracombe						
	Weston-super-Mare ...	–	50	32	bc b	b bc.b	8·0
	Bude	–	52	34	b	c	10·2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	68	93	0·4	47	34	32	9	o	c	or.oso
City (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	62	88	0·0	47	35	36	7	m.bc	u	b.omr.
Camden Sq. (Brit. Rainfall)	63	87	0·2	50	35	32	7	o	o.c.o	*
Hampstead (Reservoir) ...	*	96	1·1	41	31	27	6	om	o.rs	o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
452 Joules	9·5 Milliwatts.	27 Milliwatts.

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

S. Kensington (Roof of M.O.) 62 88 0·0

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	–	50	32	28	bx.c.o	o.c	c	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							
Teignmouth to 9 ,,								*
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·1	47	38	30	b.o	o	ou.o	*

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

7th & 8th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5. 15 / 5. 12	11. 55 / 11. 55	6. 35 / 6. 37
Greenwich	5. 25 / 5. 23	12. 2 / 12. 2	6. 40 / 6. 41
Wick	5. 26 / 5. 23	12. 14 / 12. 14	7. 3 / 7. 5
Valencia	6. 5 / 6. 2	12. 43 / 12. 43	7. 21 / 7. 23

NOTES ON YESTERDAY'S WEATHER.

Low temperatures were general, few stations touching 50°. Rain fell in most regions. Sunshine was very variable, none at Rhyl, 11⅛ hours at Deerness.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 99

Saturday, 8th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.T.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					↕	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1016·9	42	S	5	cm	1008·7	-2	41	0	SW	4	–	bc	4	2	43	36	0	0	cp	*
	Deerness (Orkney)	1015·2	41	S	4	03	1008·1	*	41	0	SSW	5	W	c	4	1	45	38	o.bc.b.bc	bc c.o	op c	5·3
	Stornoway ...	?	44	WNW	3	op	1005·8	-6	42	+1	SSW	7	–	odq	6	1	46	36	od r	od r op.	bc.onq	0·5
	Castlebay (Barra Isd.)	1016·1	44	NW	2	op	1011·2	-4	45	+2	SW	5	–	r	5	1	46	41	r op	op c op	op ocr	0·3
	Glasgow ...	1017·1	39	W	1	cm	1016·8	-2	38	+1	SW	3	NW	bc	4	1	45	36	omdp.	omdp.o	o.bmx	0·0
	Eskdalemuir ...	1017·2	38	WNW	3	bcz	1018·9	0	34	0	SW	3	NW	bc	4	–	42	29	o.csp.o	o.c.bcz	b	1·8
	Malin Head ...	1016·8	44	W	3	b	1018·0	-3	41	+2	SW	5	W	cq	5	0·1	48	38	cm	bc	cq	3·2
	Blacksod Point	1020·0	46	N	3	bc	1016·4	-3	44	+2	WSW	5	W	omd	4	0·3	48	40	bc	bc	bc.cmq	*
	Valencia ...	1021·7	47	NW	4	b	1022·8	0	42	-2	SE	2	NW	c	4	–	50	34	c.bc	bc.b	b.bc	9·3
	Roche's Point	1020·0	51	NW	3	bcp	1023·9	*	36	-6	–	0	–	b	1	1	53	35	cp	bcp	bc.b	*
	Birr Castle ...	1018·6	47	NNE	1	c	1021·6	*	36	-3	S	1	–	c	*	1	49	32	or.o	c	cp h c	2·5
	Donaghadee ...	1017·5	43	SSW	3	cm	1018·9	-1	35	-5	SW	3	SW	bcm	2	0·1	47	32	cm	cf	bcm bm	*
	Liverpool (Bidston)	1017·9	42	WNW	2	bc	1021·2	0	39	+1	SSW	2	–	b	1	–	46	35	bm	bc	bc	7·8
	Holyhead ...	1017·8	46	SW	3	b	1021·1	+1	39	0	S	2	–	bm	0	Trace	47	38	c.bm	xpd. c.b.	bc	12·
	Pembroke (St. Ann's)	1019·4	45	W	3	b	1023·9	+1	40	0	E	2	–	f	1	0·2	47	36	b	b	bfc	11·3
	Scilly (St. Mary's)																					
	Falmouth ...	1018·2	47	NNW	1	bq	1022·9	+2	39	0	NNW	2	–	bc	*	–	51	38	b	b	bc	11·9
	Jersey (St. Aubin)	1016·1	46	NE	3	b	1020·6	*	45	+6	NNE	2	–	bm	2	–	52	38	b.bc.b	b	bm	11·3
	Portland Bill ...	1016·7	46	NW	2	b	1024·2	+2	43	+2	NNE	3	–	b	2	–	48	39	b.bc	bc.b	bc	*
	Dungeness ...	1016·0	44	NNE	3	bc	1020·3	+2	38	-1	N	2	N	c.c	2	–	46	38	o.bc	bc	bcc	*
	Dover	1017·3	41	N	3	b	1020·3	+2	41	+1	NNE	2	–	b	2	–	45	35	or.c	c.bc.o	bc	1·4
	Wick	1015·7	40	SSE	3	m	1009·9	-4	41	41	S	4	–	c	3	1	45	36	om.q	ompq	p.bc.dq	*
	Nairn	1015·4	43	–	0	odmm	1010·8	*	41	+4	SW	3	–	cq	3	1	49	36	cq	op	o cq	0·1
	Aberdeen ...	1015·4	38	–	0	r	1014·2	-1	39	-1	SSW	1	–	b	2	1	48	35	c.o	or	sp o b	0·0
	Leith	1015·6	42	NW	1	c	1016·1	0	40	+2	SW	2	W	bc	2	0·2	45	37	o.c.bc	c.op.c	c.bc	*
	Tynemouth ...	1015·7	41	NW	2	bcmp	1019·4	+1	36	0	W	2	W	cm	3	3	41	35	omr	bcmr	cm	*
	Spurn Head ...	1016·2	44	N	2	bc	1021·2	0	37	-2	NW	4	–	bmx	4	3	43	35	nog	ba	bc	0·1
	Yarmouth ...	1016·3	44	NNW	2	b	1021·3	+1	35	-5	NW	2	–	bm	2	2	45	33	cm	bm	bcm	1·0
	Clacton-on-Sea	1017·2	45	NW	3	bc	1021·1	+2	37	-2	NNW	3	–	bc	1	–	46	35	or.o	o.c.bc	bcc	2·7
	Nottingham ...	1017·1	46	NNW	2	b	1021·7	*	32	-5	WSW	1	–	bmx	*	–	48	29	cm	c.oq.bm	c.b	2·2
	Benson (Oxon.) ...	1017·0	47	NNW	1	b	1022·8	+2	30	-6	–	0	–	b	*	–	50	25	bc	bc	b	*
	Sth Farnborough	1016·7	47	N	2	b	1021·8	+2	32	-5	NW	1	–	bm	*	–	51	28	o	bc.b	bm	5·1
	London (Kew Obsy.)	1017·2	48	N	1	b	1022·0	+2	35	-1	–	0	–	bmx	*	–	48	34	cm.o	o.b	bf bfc	4·4
NORTHERN EUROPE.	Spitsbergen ...	1001·6	1	NW	6	b	1005·3	+1	5	-4	–	0	*	c	*	*	19	-4				
	Vardö	1019·0	28	SW	7	c	1013·3	-3	28	+3	SW	6	–	o	3	*	28	14				
	Bodö	1022·3	29	S	2	c	1015·1	-4	39	+7	E	4	–	b	2	–	43	30				
	Christiansund	1021·6	43	SE	3	b	1011·4	-8	43	+6	–	0	–	c	3	–	48	34				
	Skudesnaes ...	1019·5	41	ESE	5	o	1013·7	0	37	-4	ESE	7	–	o	4	–	46	32				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1026·3	41	ESE	3	bc	1021·2	-3	36	0	SSE	5	–	o	5	–	45	34				
	Blaavands Huk	1015·6	41	SE	3	o	?1018·7	0	39	+2	SSE	2	–	o	2	–	45	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1015·1	43	NW	5	o	1019·5	+3	41	-5	N	4	–	o	3	–	54	39				
	C. Gris Nez ...	1016·6	43	NE	4	c	1019·5	+2	42	-1	NNE	5	*	f	4	Trace	45	41				
	La Hève	1015·1	45	N	3	c	1015·6	*	42	+1	NNE	3	*	b	2	–	55	39				
	Brest (St. Mathieu)	1016·7	48	NE	4	b	1020·3	+2	43	+2	NE	2	*	b	3	–	54	44				
	Rochefort (Ile d'Aix)	1012·7	46	ENE	4	r	1013·5	+2	45	+3	NE	5	*	o	*	b	57	41				
	Biarritz	1010·1	46	ENE	3	f	1010·9	0	45	-1	SE	2	*	o	2	1	52	43				
	Paris	1013·5	50	N	2	o	1016·0	+2	43	0	N	3	–	o	*	–	54	41				
	Belfort	1009·0	56	E	2	m	1012·0	*	45	0	E	2	*	f	*	–	65	48				
	Lyons	1008·2	51	WNW	3	o	1010·9	*	50	+3	N	1	*	o	*	–	52	50				
	Nice	1006·1	57	S	4	r	1007·7	+1	57	-1	–	0	*	r	3	2	64	52				
	Perpignan ...	1006·9	43	WNW	3	r	1009·2	+3	37	-6	NW	1	–	o	*	41	43	37				
	Sanguinaire ...	*	58	N	2	r	*	*	52	-4	E	2	*	o	3	16	61	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1013·6	46	NNE	6	r	1017·5	+3	46	-2	NE	6	–	r	5	2	50	43				
	Madrid (8 a.m.)	1007·5	52	WNW	3	o	1012·6	+3	37	-4	SSE	1	–	o	*	?	54	32				
	Lisbon (9 a.m.)																					
	Gibraltar	1014·2	54	W	4	o	1012·2	*	49	o	NW	4	*	o	3	1	62	47				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·7	+4	57	-6	W	3	–	b	2	–	66	57				
	Azores (Horta, 8 a.m.)	1032·7	*	ENE	4	b	1033·3	0	56	+1	NE	4	*	o	2	–	63	54				
	Madeira (Funchal)	1023·1	61	NE	3	o	1022·6	0	55	-2	NE	4	N	r	4	?	64	55				

YESTERDAY'S REPORTS	....6th...., 8 P.M. G.M.T.					7th April, ..., 7 A.M. G.M.T.													
ITALY.	Venice	1013·6	57	ENE	1	b	1011·9	0	65	+1	SSE	2	*	r	3	Trace	*	*	
	Turin	1013·5	51	–	0	r	1012·3	0	50	+2	–	0	*	o	*	9	*	*	
	Vieste	1009·3	48	ENE	2	o	1011·4	0	59	+2	WSW	2	*	c	2	–	*	*	
	Pesaro	1012·7	57	E	1	b	1011·6	+1	52	-3	–	0	*	o	3	–	*	*	
	Leghorn	1010·7	60	–	0	bc	1008·3	0	59	0	SSW	4	*	bc	4	–	*	*	
	Rome	1006·6	59	N	1	c	1007·5	0	59	+2	SE	1	*	o	*	1	*	*	
	Brindisi	1013·7	62	–	0	b	1011·0	0	57	+2	NNE	1	*	o	3	–	*	*	
	Cagliari	1005·0	69	SE	4	o	1002·6	0	61	-2	NNE	3	*	r	1	6	*	*	
	Palermo	1005·2	57	–	0	o	1002·6	0	57	-2	–	0	*	o	5	4	*	*	

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at 7.13 a.m. to-day.

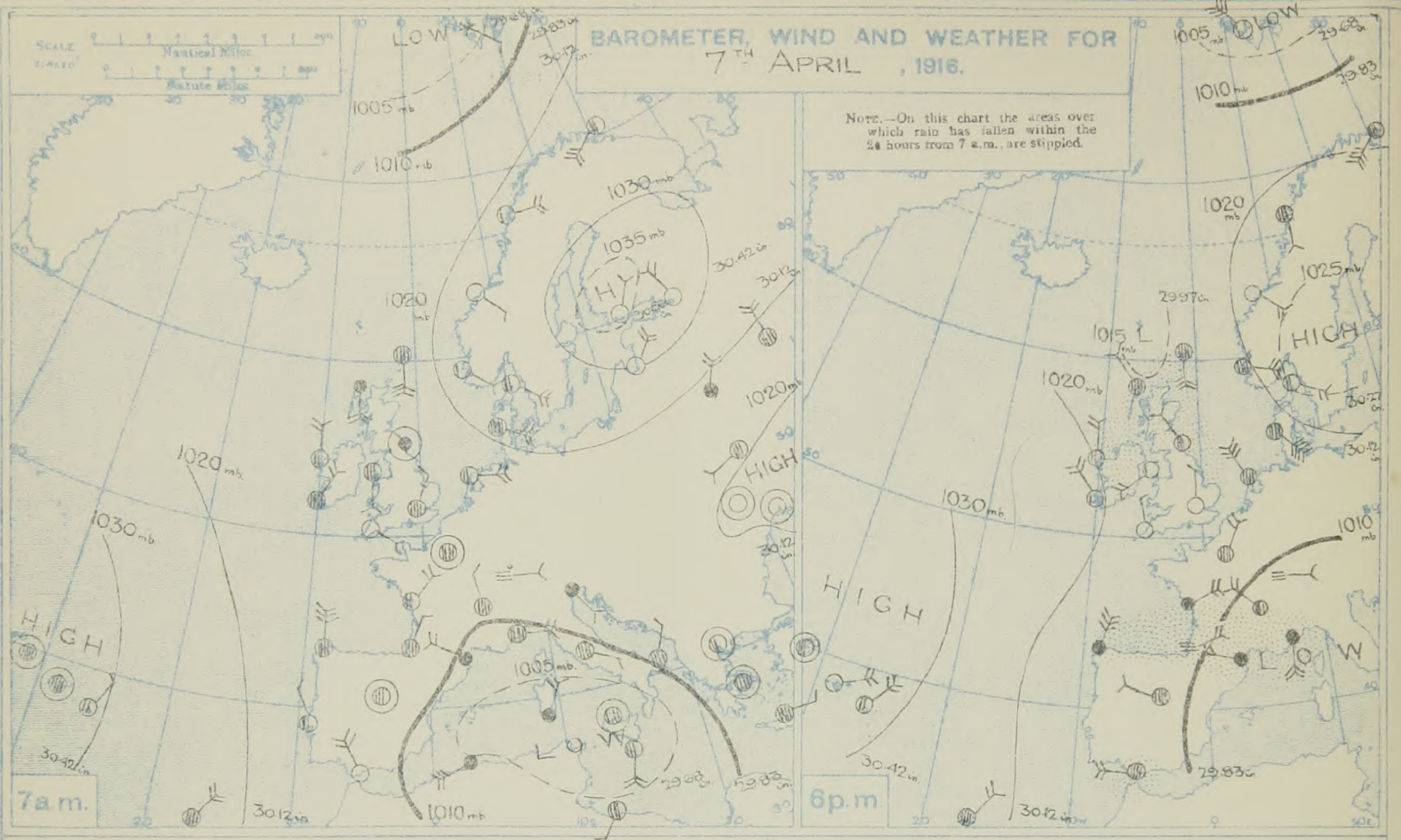
7,000 feet	NNW	10 miles per hour
6,000 "	NbyW	10 " " "
5,000 "	NbyW	20 " " "
4,000 "	NbyE	20 " " "
3,000 "	N	18 " " "
2,000 "	NNE	14 " " "
1,000 "	NNE	12 " " "
Surface	NWbyN	4 " " "

Aberdeen at 8 a.m. to-day.

1,000 metres	WSW	29 miles per hour.
500 "	SW	20 " " "
Surface	S	11 " " "

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

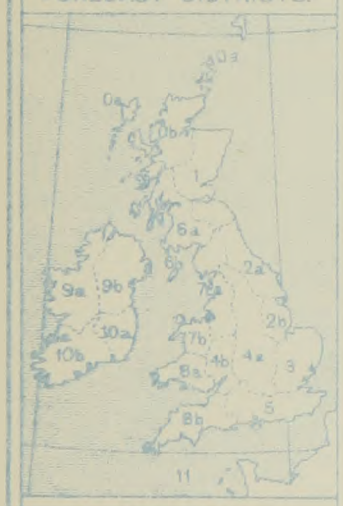
BAROMETER, WIND AND WEATHER FOR 7TH APRIL, 1916.



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

FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b; 1	Freshening winds, between South and West, moderating again later; dull to fair, some rain, coast mist or fog; moderate temperature.
2 a, b; 3; 4 a, b; 5	Light Northerly breezes, backing towards West; fine, some mist; temperature rising.
6 a, b; 7 a, b	Same as Nos. 0 and 1.
8 a, b	Same as Nos. 2 to 5.
9 a, b	Same as Nos. 0 and 1.
10 a, b	Light to moderate Southerly to Westerly breeze; fine to fair, local showers; temperature rising.
Western Channel and Bay 11	Light to moderate Southerly to Westerly breezes; sea moderate; fine to dull, local showers and mist; cool.

FURTHER OUTLOOK.

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

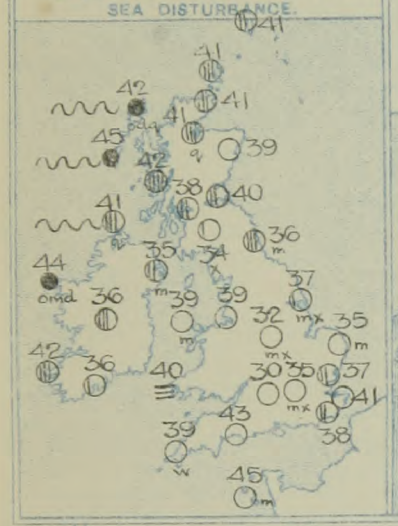
NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 8TH APRIL, 1916.

GENERAL INFERENCE.

The northern districts will be affected to some extent by a disturbance near the Arctic Circle, but in the south anticyclonic fine weather conditions will prevail.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

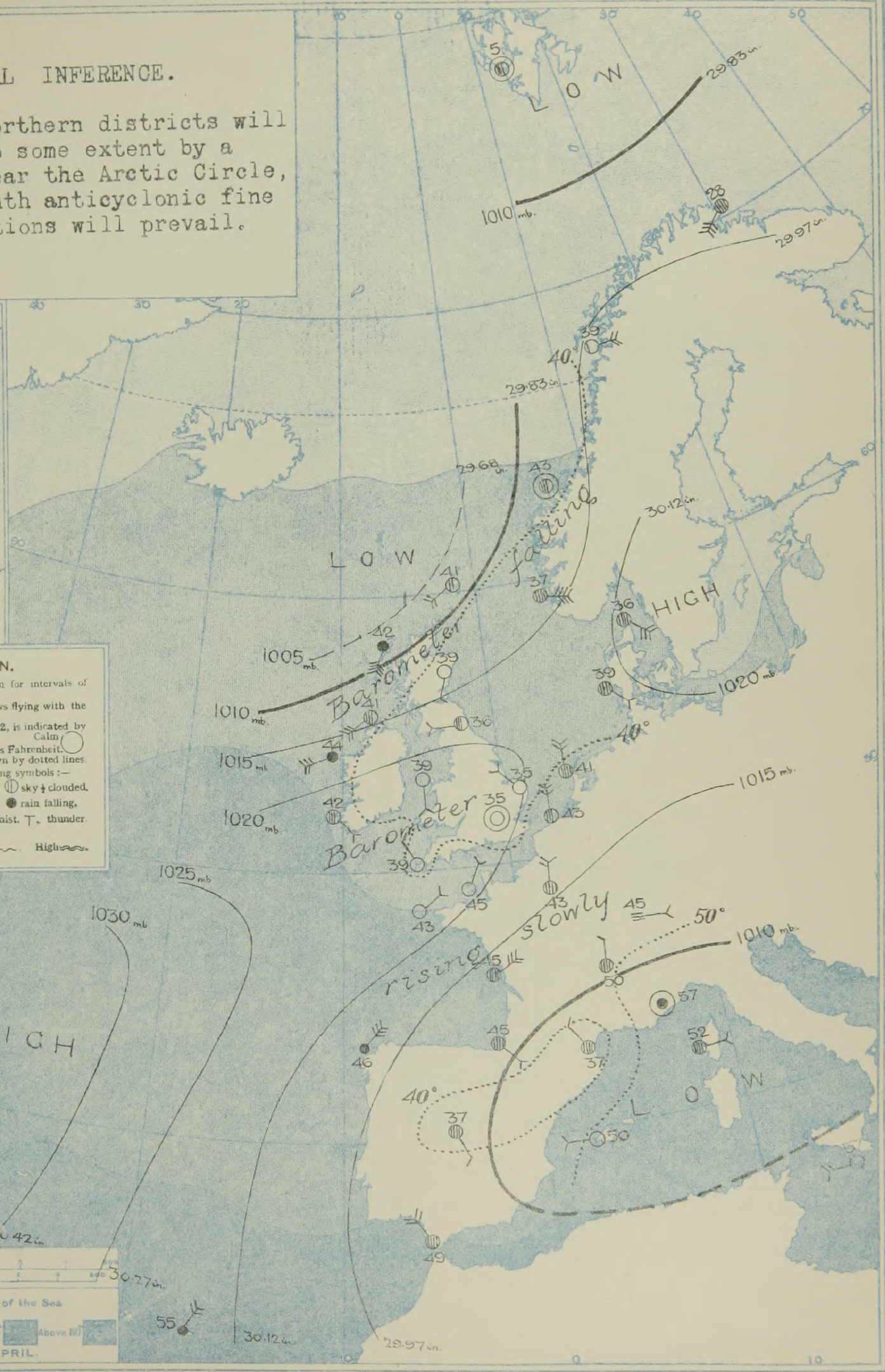
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.



Scale 1 : 2 × 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for APRIL.

Issue No. 19861. **DAILY WEATHER REPORT.** Saturday, 8th April, **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	6½h AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	7½h AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1010·9	12	N	3	S							*				*	
Velikaluki						1025·6	?	25	-18	N	4	*	C	*	1	*	*
Gorki	1014·4	46	–	0	b	1017·1	+5	36		NE	4	*	r	0	–	*	32
Hangö						1036·3	+5	21	-2	NNE	2	*	b	–	–	*	18
Riga	1023·3	34	NE	4	bc							*				*	*
Petrograd	1024·3	27	NW	3	b	1032·9	+7	19	-17	NNW	3	–	b	*	–	36	18
Moscow	1018·0	45	SSE	2	b	1019·1	+2	34	-11	N	4	*	o	*	–	*	34
Kiev	1018·7	52	–	0	b	1018·7	0	45	+2	WSW	2	*	c	*	–	*	43
Kharkov	1024·6	45	S	1	0	1023·7	+3	39	-6	S	1	*	o	*	–	*	36
Kishinev	1020·7	50	SSE	2	b	1021·6	+2	41	+4	–	0	*	b	*	–	*	27
Elisabetgrad ...	1021·5	46	SSE	2	b	1021·9	0	36	-5	–	0	*	b	*	–	*	32
Nicolaiev	1020·7	50	NNE	2	b	1021·7	*	39	0	–	0	*	b	0	–	*	36
Odessa	1021·1	50	SW	2	b	1019·9	?	[illegible]	?	?	?	*	?	?	?	*	?

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	46	35	o	o	0·0
	Banff	-	44	35	bc.c	cr	0·9
	St. Andrews	1	43	36	*	*	0·0
Eng. N.E.	Harrogate	2	45	32	o.c.bc	c. bc.b	2·8
	Skegness	5	46	36	r. o.bc	bc.b	2·5
Eng. N.W.	Morecambe	–	46	37	bc	bc	6·2
	Blackpool						
	Southport	–	46	34	c.bc.b	bc.b	9·2
Midlands	Buxton	–	45	30	bc	bc	6·3
	Leamington Spa	3	49	36	m.c.bc	bc	3·8
	Malvern						
	Ross-on-Wye	–	54	36	b	b	8·4
Wales.	Rhyl	–	49	36	bc	bc	6·8
	Colwyn Bay	–	48	39	bc	bc.o	4·0
	Llandudno	–	47	38	c.bc	c	2·4
	Aberystwyth	–	47	38	o.cb	c.o	9·5
	Tenby	–	52	38	bc	bc	1·1
England. E.	Lowestoft	13	44	41	o.c	c	1·0
	Felixstowe	8	46	39	bc.o	o.bc	3·2
	Walton-on-Naze						
	Southend-on-Sea	10	47	37	o.c	o.c.bc.b	5·9
England, S.E.	Margate	3	44	40	c	b	1·2
	Ramsgate	5	43	39	o	c	1·1
	Hastings	8	?	36	or.bc	b	6·0
	Eastbourne	8	50	37	bc.b	bz	9·3
	Seaford	4	50	36	c	c	5·5
	Brighton	2	50	35	bc.c	c	10·1
	Worthing	1	50	36	c.bc	b	10·1
	Littlehampton	1	49	36	b	b	9·2
	Bognor						
	Southsea						
	Bournemouth	–	53	33	c	c	7·8
England. S.W.	Weymouth	–	53	36	z.b.bc	bc.bz	9·0
	Torquay	–	50	34	b.bc	b	9·8
	Paignton	–	51	28	b	m	9·0
	Penzance	–	52	39	b.bc	bc.b	11·0
	Newquay	*	47	33	b	b	? 11·0
	Ilfracombe	–	50	34	b	b	11·0
	Weston-super-Mare ...	–	50	? 31	bc.b	bc.bz	7·0
	Bude	–	52	34	b	b	11·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	70	74	2·8	48	31	24	-	o	o.c.b	b.bz
City (Punhill Row)	*	*	3·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	66	66		49	33	32	–	b	b	m.o.m.b
Camden Sq. (Brit. Rainfall)	65	57	3·6	50	34	29	-	o	c.b	*
Hampstead (Reservoir) ...	*	68	4·3	45	33	21	-	bmx	bx	b
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	4·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	67	64	3·7							

Vertical Component of Solar Radiation per Square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
863 Joules	1·84 Milliwatts.	6·3 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	46	31		oug	oug.b	bcu	6·4
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	6	49	35	35	r	o	o.bz	*

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

8th & 9th April, 1916.	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. 1 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. 21 7. 23

NOTES ON YESTERDAY'S WEATHER.

Temperature was low everywhere, maxima under 50° in most places, 40° at Glasgow. Slight showers occurred locally. Sunshine varied greatly, from none in places to 12 hours at Falmouth.

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.

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

* The barometer change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 100 { 9th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1023.0	41	SW	6	cq p	999.0	+2	41	0	NW	7	-	cq	5	10	46	36	o m r q	c q p l t	c q p	*
	Deerness (Orkney)	1024.7	42	SW	6	b c p	1001.0	*	41	0	W N W	6	N W	b c p q	6	3	47	37	b c p	b c p	b c p q	8.3
	Stornoway ...	1008.0	44	W S W	7	c p q	1012.9	+1	40	-2	N W	6	-	b c q	5	4	49	37	o d b c p q	c p q	b c p r h q	5.8
	Castlebay (Barra Isd.)	1012.8	45	W	4	c	1017.6	+2	44	-1	W	5	W	c	5	2.9	48	39	r o c p	c p c	c.bc	3.2
	Glasgow ...	1018.4	46	W	5	c	1016.4	+4	41	+3	W N W	4	-	c	*	1	48	38	c z o d p	o p c z	c d p	1.5
	Eskdalemuir ...	1015.3	42	S W	4	o	1017.7	+2	39	+3	W S W	3	W	b c	*	1	46	34	b b c c.o	o . o r . o	o.c.bc	3.7
	Malin Head ...	1015.8	46	W	4	b c m q	1019.1	+4	44	+3	W	5	W	b c q	4	0.3	49	40	o m q p	b c m q p	b c q p	3.1
	Blacksod Point	1019.9	48	N W	3	b c z	1023.6	+4	45	+1	N W	3	N W	c m z	3	1	51	42	c m p	b c m	c q . c m	*
	Valencia ...	1022.3	50	W N W	3	c	1025.7	+2	47	+5	N N W	2	N	o	1	0.4	52	42	c . o o m d	m . o . c	c b c . b b c	2.7
	Roche's Point	1024.9	48	S W	2	c	1025.4	*	42	+6	N W	1	N W	c	1	0.3	50	36	b b c c p	o . c m	b m . c m	*
	Birr Castle ...	1019.9	50	W	2	c	1024.3	*	42	+6	W	1	W	c	*	-	53	36	c	c	c	0.9
	Donaghadee ...	1017.0	47	W N W	3	c g m p	1020.3	+4	42	+7	W N W	3	N W	c p	3	0.2	53	34	o g m p	c g m p	c g b c m	*
	Liverpool (Bidston)	1018.8	47	W S W	3	o	1020.5	+2	42	+3	W S W	4	-	b	3	-	51	39	b	b c . o	o . c b	8.4
	Holyhead ...	1018.7	45	S W	5	o p d m q	1021.8	+2	43	+4	W N W	5	N W	b c	4	Trace	49	37	b . b c c . o	o . c . o m	o p d . b c	6.4
	Pembroke (St. Ann's)	1022.0	45	W S W	3	c	1023.4	+2	44	+4	N	3	-	b c	2	-	48	38	-	f . c	f . b c	2.2
	Scilly (St. Mary's)																					
	Falmouth ...	1022.2	48	N W	2	b	1022.8	+3	46	+7	N N W	1	-	c	*	-	54	38	b	b	b c . o . c	11.6
	Jersey (St. Aubin)	1021.7	49	N	3	b	1022.1	*	46	+1	N W	2	-	b	1	-	53	40	b m . b	b	b w	11.3
	Portland Bill ...	1020.9	47	W	2	b	1020.8	0	46	+3	N W	2	-	c	2	-	50	41	b	b	b . b c	*
	Dungeness ...	1019.5	45	N E	2	b	1019.4	0	36	-2	W S W	1	-	b c z	0	-	50	36	b c . b	b	b b c m x	*
	Dover	1020.2	43	E	2	b	1020.0	0	45	+4	N W	2	-	o	2	-	52	36	b	b z	b x . b c . o	10.7
	Wick	1007.0	43	W	3	b c	1007.4	+4	38	-3	W N W	3	N W	s	4	1	52	35	c q b m q	c q p b c	c . o m g h	*
	Nairn	1009.7	44	W S W	4	b c q	1012.1	*	41	0	N W	5	-	b c q	4	2	51	36	o p . c	b c q p	b c q p	2.2
	Aberdeen ...	1010.3	47	W	4	c	1011.5	+1	42	+3	W	5	-	b q	2	1	52	39	b c . c q	b c q . c p	b c . b q	7.6
	Leith	1013.1	49	W	2	c	1015.1	+2	42	+2	N W	2	N W	c	3	-	50	37	b c q . c	o q p . c	c . o b . c	*
	Tynemouth ...	1015.6	49	W	3	o	1016.5	+1	42	+6	W N W	4	N W	b c m q	3	-	53	36	c m	c m	b c m	*
	Spurn Head ...	1018.5	46	W N W	2	b c m	1017.9	-1	43	+6	W N W	4	-	c m	4	-	54	37	b c m	b c m	b c m	8.6
	Yarmouth ...	1019.4	44	S W	2	b c	1019.1	+2	42	+7	N W	2	-	b c m	1	-	48	34	b c m	b c m	b m . c m	10.6
	Clacton-on-Sea	1019.1	45	S E	2	b c	1019.9	+1	41	+4	W	2	N W	o	1	-	51	35	b c . b z	b . b c z	b c . b . o m	11.1
	Nottingham ...	1018.7	53	W	2	b c	1020.1	*	42	+6	W	2	W	c m	*	-	37	31	b m . c	c . b c	b c	10.0
	Benson (Oxon.) ...	1019.8	58	W	1	b	1021.4	+3	42	+12	W	1	-	o	*	-	55	29	b z	b	b o	*
	Sth Farnborough	1019.6	52	N W	1	b	1020.9	+1	40	+7	W	1	-	o m	*	-	56	32	m . b	b	b . o	10.9
	London (Kew Obsy.)	1019.7	53	N N W	2	b	1021.2	+3	41	+6	W S W	1	-	o m	*	-	54	35	b m k b	b	b . o m	10.5
NORTHERN EUROPE.	Spitsbergen ...	1003.8	-4	-	0	b	1004.7	+2	-9	-14	-	0	*	b	*	*	5	-26				
	Vardö	1006.6	30	S W	1	b	1000.0	-3	28	0	W	6	-	b	3	*	30	23				
	Bodö	1005.0	37	S W	4	c	996.4	-3	34	-5	E	2	-	b c	2	6	39	32				
	Christiansund	1001.1	45	S W	2	o	993.0	-5	43	0	-	0	-	b	3	-	46	39				
	Skudesnaes ...	1004.0	39	S W	7	r	1001.9	-4	39	+2	W	6	-	c	5	7	39	36				
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)	1017.1	37	S S W	4	o	1007.0	-3	37	+1	S S W	4	-	o	4	-	39	34				
	Blaavands Huk	1017.1	39	N	1	b	1011.7	-2	39	0	W S W	3	-	o	3	-	43	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1019.0	43	N	2	b	1017.2	0	45	+4	W S W	3	-	o	2	-	45	34				
	C Gris Nez ...	1019.8	43	E N E	3	b	1019.8	0	43	+1	S S W	3	*	b	2	-	48	39				
	La Hève	1019.4	43	E N E	3	o	1020.3	*	41	-1	E S E	3	*	f	1	-	54	41				
	Brest (St. Mathieu)	1022.4	50	N N E	4	b	1022.9	0	43	0	E N E	1	*	b	2	-	63	41				
	Rochefort (Ile d'Aix)	1016.4	52	E	3	m	1019.8	+3	43	-2	E N E	5	*	c	*	-	65	41				
	Biarritz	1015.4	50	E S E	2	o	1017.7	+1	50	+5	S	1	*	c	4	-	52	46				
	Paris	1017.0	50	N E	3	b	1021.2	+2	39	-4	N	2	-	o	*	-	55	36				
	Belfort	1011.0	61	E	2	b c	1018.7	*	43	-2	W	2	*	f	*	-	66	43				
	Lyons	1018.7	50	N W	3	o	1018.4	*	46	-4	N N W	1	*	f	*	1	54	46				
	Nice	1012.0	52	E	1	r	1015.0	+2	57	0	W	1	*	b	2	5	59	50				
	Perpignan ...	1013.3	50	N W	1	r	1016.3	+2	50	-9	W	2	-	c	*	3	54	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017.7	50	N N E	5	r	1020.3	+1	52	+6	N N E	6	-	f	4	1	52	46				
	Madrid (8 a.m.)	1011.5	50	S E	2	c	1016.4	+1	46	-1	E	2	-	b	*	-	52	39				
	Lisbon (9 a.m.)	1001.7	50	N N E	3	o	1014.1	+2	45	0	N N E	4	-	b	5	5	55	43				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1016.6	+1	59	+2	N N W	4	-	b	4	-	64	54				
	Azores (Horta, 8 a.m.)	1033.3	*	N E	3	o	1035.0	0	65	-1	-	0	*	o	1	-	59	54				
	Madeira (Funchal)	1021.0	59	N E	4	o	1021.1	0	54	-1	N E	4	N	o	4	1	61	54				
YESTERDAY'S REPORTS		7th April, 8 P.M. G.M.T.					8th April, 7 A.M. G.M.T.															
ITALY.	Venice	1011.0	59	-	0	b	-	-	-	-	-	-	*	-	-	-	*	*				
	Turin	1010.6	57	-	0	o	1012.6	0	52	+2	-	0	*	r	*	2	*	*				
	Viesti	1006.8	60	-	0	b	1006.6	-2	51	-8	S E	5	*	o	5	29	*	*				
	Pesaro	1010.8	57	N E	1	b	1010.4	+1	50	+7	N E	1	*	o	4	1	*	*				
	Leghorn	1007.1	63	E	1	b c	1007.7	0	59	0	E	3	*	c	4	-	*	*				
	Rome	1006.6	59	N E	1	b c	1006.9	+1	59	0	S E	1	*	o	*	-	*	*				
	Brindisi	1010.2	55	N E	1	r	1009.0	0	59	0	S E	2	*	r	4	25	*	*				
	Cagliari	1003.7	66	S W	5	r	1006.6	0	61	0	N W	3	*	c	3	16	*	*				
	Palermo	1005.2	66	-	0	b	1003.6	+1	55	-2	N	3	*	o	5	1	*	*				

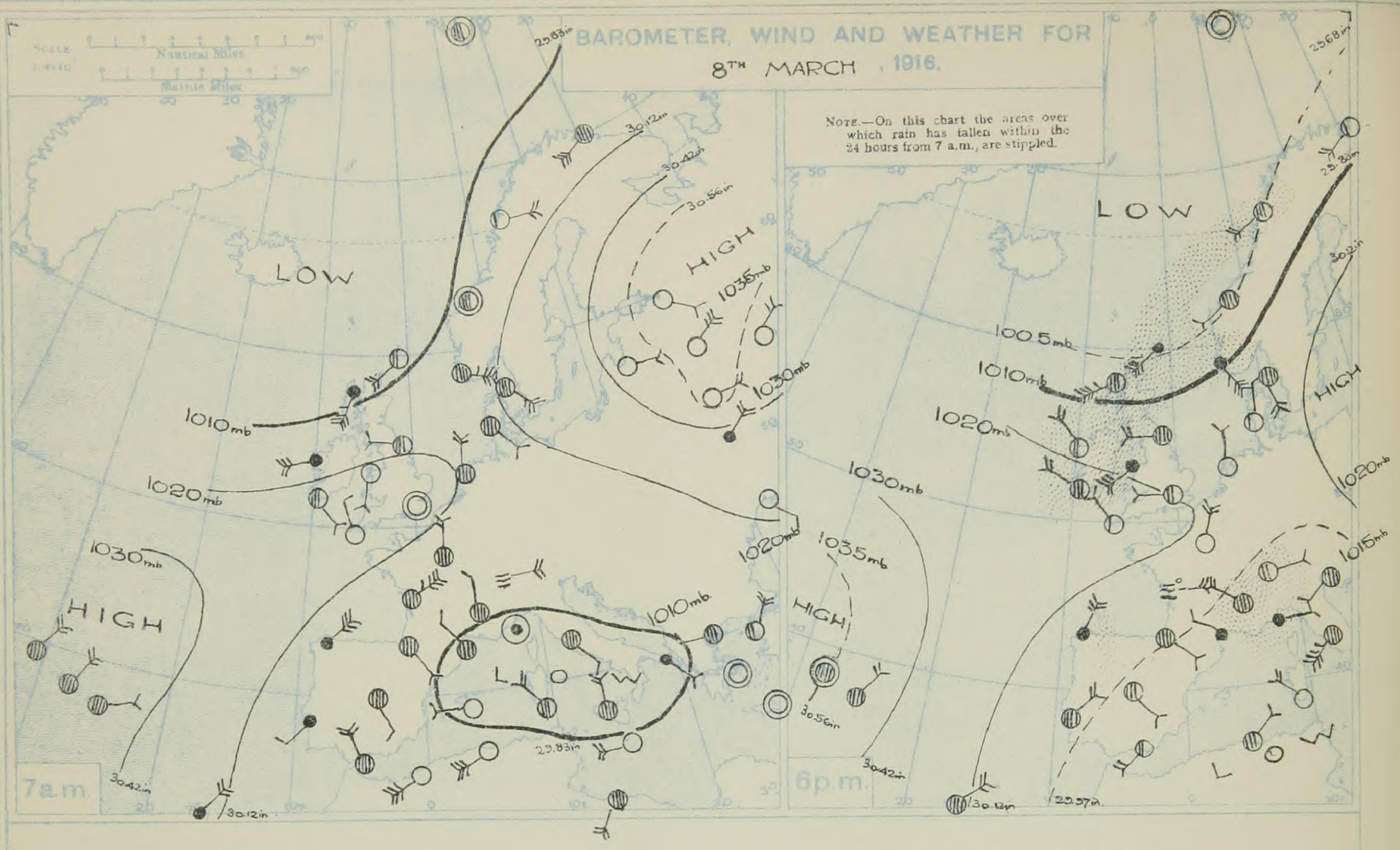
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Stornoway: Night.
Squalls. N.W. 8.

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

BAROMETER, WIND AND WEATHER FOR 8TH MARCH, 1916.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b; 1	Squally Westerly to Northerly strong wind, moderating; local cold showers, but generally fair; moderate temperature.
2 a, b	Fresh to moderate breezes between West and North; fair generally, some showers and mist; moderate temperature.
3; 4 a, b; 5	Light to moderate breeze between West and North; fair to fine, local showers and mist; moderate temperature.
6 a, b	Same as Nos. 0 and 1.
7 a, b	Same as No. 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b	Same as No. 2.
10 a, b	Same as Nos. 3 to 5.
Western Channel and Bay 11	North-Easterly wind, fresh or strong at times; sea moderate to rather rough; fine to cloudy, local fog; cool.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 9TH APRIL, 1916.

GENERAL INFERENCE.

During the ensuing 24 hours the conditions will come more under the influence of the anticyclone which is spreading in from the south-westward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

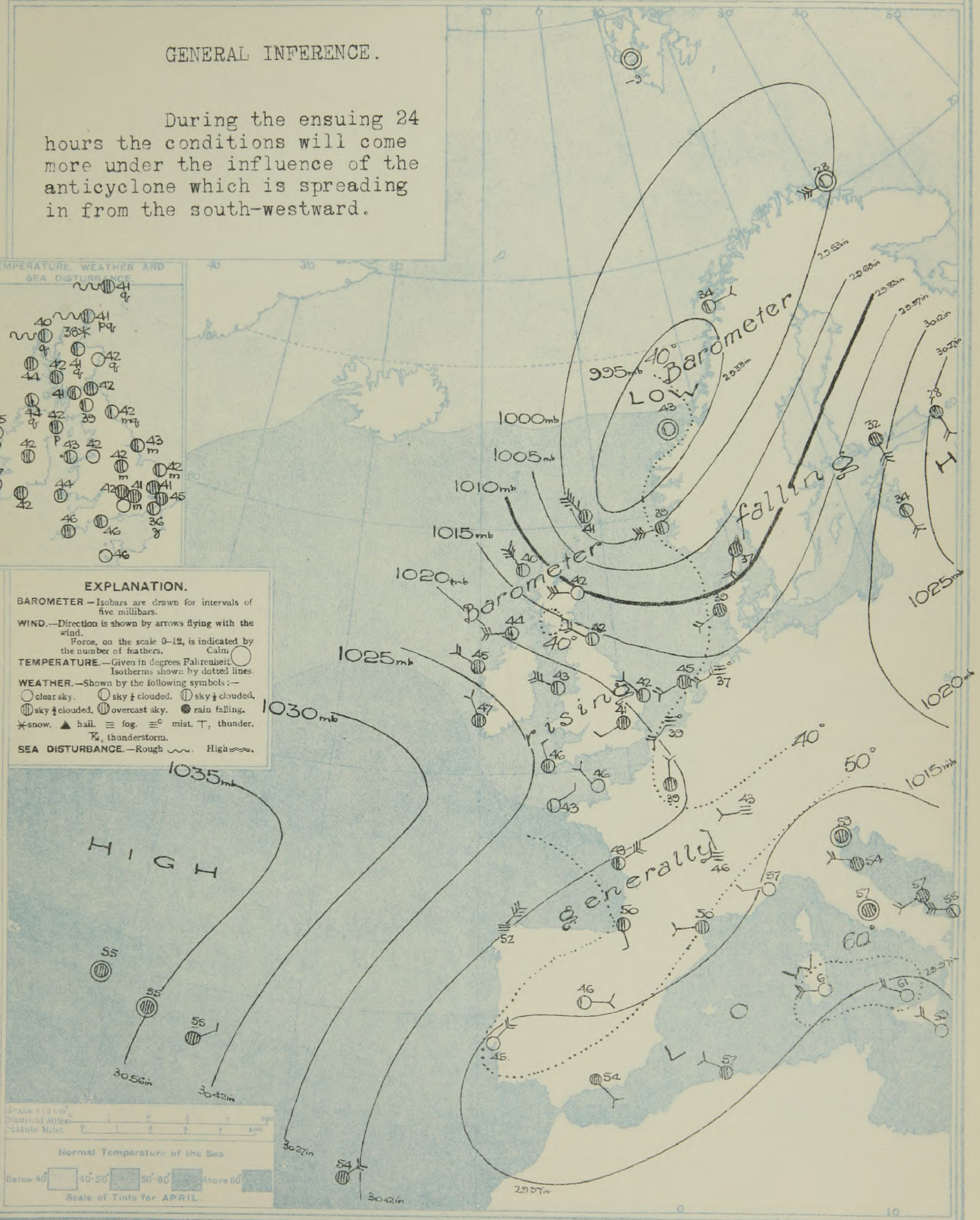
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.



Issue No. 19862.

DAILY WEATHER REPORT.

Sunday, 9th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	7h AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	8h AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel												*				*	
Velikieluki ...						1031.5	+4	25	0	NE	5	*	b	*	3	*	*
Gorki	1026.9	28	NE	4	b	1035.3	–	27	-9	E	3	*	b	*	–	*	*
Hangö	1038.4	45	SSE	2	b	1034.4	0	27	+6	SSE	3	*	b	–	–	*	18
Riga	1034.1	28	ENE	4	b	1033.7	0	28	*	E	2	*	b	–	–	*	19
Petrograd	1037.3	25	NE	1	b	1038.9	+1	25	+6	SE	2	–	b	*	–	28	19
Moscow	1028.8	25	NNE	3	b	1032.9	+2	21	-13	NNE	3	*	b	*	1	*	18
Kiev	1019.8	48	N	2	0	1022.6	+3	37	-8	NE	4	*	r	*	–	*	37
Kharkov	1021.6	46	S	2	b							*		*		*	*
Kishinev												*		*		*	
Elisabetgrad ...	1020.3	48	SSE	1	b	?1020.4	0	43	+7	–	0	*	0	*	–	*	39
Nicolaiev	1020.3	50	SW	3	b	1020.8	*	43	+4	–	0	*	b	0	?	*	36
Odessa	1020.8	50	SE	1	b	1021.3	+1	45	?	SE	1	*	b	0	–	*	43

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	49	36	r. 0	bc. 0	2.7
	Banff	–	53	37	bc	cp. 0	4.4
	St. Andrews	*			*	*	
Eng. N.E.	Harrogate	–	53	32	bc. b	bc. b	8.7
	Skegness	Trace	54	31	b	b. bc	9.2
Eng. N.W.	Morecambe						
	Blackpool						
	Southport						
Midlands	Buxton	–	52	29	bc	b	7.8
	Leamington Spa	–	56	29	bc. c	b. bc	9.6
	Malvern						
	Ross-on-Wye	–	59	27	b	b	11.4
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	–	50	34	c. b	bc	8.5
	Aberystwyth	–	47	38	0. c	c b. 0	6.0
	Tenby	–	52	30	bc	b	6.1
England, E.	Lowestoft						
	Felixstowe	–	49	31	bm	bm	10.7
	Walton-on-Naze	–	–		b	b. bc	10.0
	Southend-on-Sea	–	54	35	b	b	9.5
England, S.E.	Margate	–	47	40	b	b	10.4
	Ramsgate	–	46	34	b	b	10.9
	Hastings	–	54	34	bc. b	b	10.7
	Eastbourne	–	53	36	b	b	10.1
	Seaford	–	56	33	b	b	9.9
	Brighton	–	56	36	b	b	9.4
	Worthing	–	55	34	b	b	11.3
	Littlehampton	–	56	38	b	b	11.0
	Bognor	–	55	35	b	b	11.1
	Southsea						
	Bournemouth	–	57	33	b	b	11.2
England, S.W.	Weymouth						
	Torquay	–	55	35	b	b	12.0
	Paignton	–	55	34	b	b	11.7
	Penzance	–	55	39	bc	bc. b	11.4
	Newquay	*					
	Ilfracombe						
	Weston-super-Mare ...						
	Buda	1	51	29	x. bc. b	bcm	7.4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	49	76	9.3	55	34	29	–	b	b. bc	bc. cx
City (Bunhill Row)	*	*	10.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	48	86	10.1	56	36	34	-	m. b	q. om	m. o
Camden Sq. (Brit. Rainfall)	50	66	9.6	57	34	31	-	b	b	*
Hampstead (Reservoir) ...	*	63	11.2	55	36	23	–	bx	cx	bc
Richmond Park ...	*	*	10.0							
Kew. (See front page.)	*	*	10.5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	55	67	10.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1463 Joules	30.6 Milliwatts.	57 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	–	53	35	30	bc	cq. o	cd	*
Darwen to 9 p.m.	1	51	33	27	bcm	c. b	bc. ud	6.9
Manchester ,,	Trace	54	32	*	bc. cbg	bc. c	bc. od	4.9
Birmingham ,,								
Oxford to 8 p.m.	*	58	31	21	b	b	b	*
Teignmouth to 9 ,,								
Plymouth ,,	–	56	36	*	bc	bcv	bcv	11.7
S. Kensington (Museum Grounds to 6 p.m.)	Trace	57	35	25	f. bg. b	b. bg	bg	*

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

9th-10th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.10 / 5.8	11.55 / 11.54	6.39 / 6.40
Greenwich	5.21 / 5.18	12.2 / 12.1	6.43 / 6.44
Wick	5.20 / 5.17	12.14 / 12.13	7.7 / 7.9
Valencia	6.0 / 5.58	12.43 / 12.42	7.25 / 7.26

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station, Date and Hour.	Heights in Kilometres	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		5th Farnborough 3rd	5th Farnborough 11.25h.	Benson. 3rd.	Benson. 12.40h.	5th Farnborough 4th.	5th Farnborough 7h.	Aberdeen. 4th.	Aberdeen. 8h.	Benson. 5th	Benson. 12h.	Eskdalemuir 5th	Eskdalemuir 7h.	Aberdeen. 6th.	Aberdeen. 8h.
	3	+3	+5												
	2.5			+5	+6										
	2	+2	+4	+3	+5										
	1	+1	+5	+2	+2	+6	-10	+15	-3	-3	-8	-1	-4	+2	+2
	0.5	+2	-2	+1	-1	+3	-11	+8	+2	-3	-9	-1	-11	+1	+3
	0	+1	-1	+2	0	+3	-7	+1	+2	-2	-7	-1	-4	+1	+3

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 101. Monday, 10th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1011·6	38	NW	6	cq	1016·1	0	36	-5	–	0	–	0	0	2	43	32	cqp	cq/ph	c	
	Deerness (Orkney)	1015·2	39	NW	6	bc	1015·6	*	40	-1	S	3	–	oz	3	1	44	35	bcpq	bc	bc.c.o	7. 1
	Stornoway ...	1021·1	41	NW	5	cpq	1013·7	-3	46	+6	SW	4	–	cq	4	2	46	38	bcpq	bc.cpq	cdpq	5. 1
	Castlebay (Barra Isd.)	10231	45	W	4	o	1017·0	-2	47	+3	SW	5	–	om	5	0.4	47	42	c.om	om.o	op.om	1. 3
	Glasgow ...	1021·6	45	W	5	c	1021·7	-3	42	+1	WSW	2	W	c	*	Trace	49	38	cp.bcq	cq	bc.b.bc	6·1
	Eskdalemuir ...	1021·9	41	WNW	4	bc	1023.3	-1	37	-2	SSW	2	–	c	*	0·2	48	32	cp.c.bc	cq.c.bc	bc.b	3.7
	Malin Head ...	10243	45	NW	2	bc	1021·0	-3	46	+2	SW	3	–	cg	3	0·3	48	41	bcq	bc	omg	8 1
	Blacksod Point	1027·0	47	WNW	3	bc	1022.0	-2	46	+1	WSW	3	SW	c.bc	3	0·2	50	44	bc	bc	bc.cmc	*
	Valencia ...	1023·2	50	WNW	3	b	1026·4	-1	46	-1	–	0	–	or	3	2	53	41	o.c.o.c	c.bc.b	b.bc.cor	7. 1
	Roche's Point	1026·8	53	NNW	3	o	1027.2	*	41	-1	WNW	1	NW	c	1	0·2	56	38	c	c.bc.o	b.bc.cw	*
	Birr Castle ...	1026·5	50	W	2	c	1025·4	*	40	-2	S	1	–	o	*	–	56	35	c	c	c.o	9.3
	Donaghadee ...	1025·1	47	N	4	bc	1022.7	-2	42	0	WSW	4	–	cm	3	–	50	37		bc	ogm.cm	*
	Liverpool (Bidston)	1024.3	44	W	3	o	1025·2	0	41	-1	WSW	1	–	b	5	2	49	38	b	bc.o	bx	8·5
	Holyhead ...	1025·2	48	W	4	bc	1024·8	-2	43	0	SW	4	W	cg	3	–	53	39	bc.c	c.o.bc	bx.b	9 2
	Pembroke (St. Ann's)	1026·6	47	WNW	3	bc	1024.3	0	43	-1	E	2	–	b	1	–	50	38	bc	bc	b	10.0
	Scilly (St. Mary's)																					
	Falmouth ...	1024·9	49	N	3	b	1026·8	+1	42	-4	N	1	–	b	*	–	54	40	bc.b	b	bw	10.0
	Jersey (St. Aubin)	1023·2	51	NW	2	b	1025·6	*	47	+1	NE	3	–	b	2	–	54	42	bc b.c	b	bw	7.5
	Portland Bill ...	1022·7	51	NW	3	bc	1026.3	0	45	-1	NNE	2	NE	b	2	–	53	40	c.bc	. bc	bc.b	*
	Dungeness ...	1021·5	52	NE	3	c	1023·8	+1	40	+4	N	3	N	bc	2	–	55	35	bc.o	o .bc	bx.bc	*
	Dover	1021·9	48	NNW	2	bc	1024·3	+1	42	-3	NW	4	NW	b	2	–	57	37	oc.bc	bc.c.bc	bz.b	2 8
	Wick	1016·7	40	NW	5	c	1016.3	-3	40	+2	WSW	3	–	r	3	0·3	46	31	pscq	cqp	bc.omp	*
	Nairn	1020·3	42	W	5	o	1016.7	*	43	+2	WSW	3	–	cgq	3	1	48	37	pq.bc.c	q.c	gq.qp	5. 2
	Aberdeen ...	1019·1	42	WNW	5	c	1018·4	-2	40	-2	SW	1	–	o	2	1	49	25	b.gr.hg	c.q.p.bc	bc.p.b.o	8·6
	Leith	1019·8	47	NW	3	c	1020·6	-2	43	+1	WSW	1	W	c	2	–	52	37	b	b	c.bc.o.c	*
	Tynemouth ...	1019·9	50	NW	5	bcmq	1022·8	+1	40	-2	W	3	NW	cm	3	–	52	35	bcmq	bcmq	cm	*
	Spurn Head ...	1020·2	48	N	4	c	1024·4	+1	40	-3	NNW	4	–	bm	4	–	53	37	bc	bc	bc	5·9
	Yarmouth ...	1021·2	47	NNE	2	bc	1023.1	+1	37	-5	NNW	2	–	bcm	1	–	53	35	bcm	bcm	bcm	5·3
	Clacton-on-Sea	1021·5	52	NW	2	c	1024·3	+1	38	-3	NW	3	–	bc	2	–	54	36	o.c.bc	bc.c	c.o.c.bc	5·7
	Nottingham ...	1023.0	48	NW	5	o	1024·8	*	37	-5	W	2	–	bm	*	–	53	34	cm	c.c	o.c.b	4·8
	Benson (Oxon.) ...	1022·6	50	N	3	b	1026.0	+1	39	-3	–	0	NW	b	*	–	55	29	bc	b	b	*
	Sth Farnborough	1022·1	52	NE	1	bc	1025·1	0	38	-2	WNW	1	NW	bcw	*	–	57	32	o.b.o.bc	bc	bc	7·1
	London (Kew Obsy.)	1022·6	53	N	2	bc	1025·7	+1	39	-2	–	0	N	bcm	*	–	55	36	om.c.bcb	b bc	b.om.x.bc	6.2
NORTHERN EUROPE.	Spitsbergen ...	10074	-9	–	0	b	1008·6	+2	-19	-10	–	0	*	b	*	*	-8	-24				
	Vardö															*						
	Bodö	9953	34	E	2	c	9987	+2	34	0	E	2	–	bc	1	–	36	30				
	Christiansund	9944	39	–	0	r	1008·2	+5	36	-7	WNW	4	–	s	4	10	46	36				
	Skudesnaes ..	1005·2	41	NW	7	o	1012.3	+5	37	-2	NNW	6	–	c	5	2	43	34				
	Færder (X Tania Fjord)																					
	The Scaw (Skagen)	1000·8	39	WSW	4	bc	1003.4	+5	43	+6	NW	5	–	b	5	–	46	37				
	Blaavands Huk	1010·1	41	WNW	5	o	1012.6	+1	39	0	NW	6	–	c	5	–	43	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1019·4	45	WNW	3	bc	1021·3	+1	43	-2	NW	4	–	bc	2	–	46	43				
	C. Gris Nez ...	1021·7	48	SW	1	o	1023.7	+2	43	0	N	4	*	bc	3	–	52	41				
	La Hève	1022·4	48	N	2	bc	1025·1	*	43	+2	NNE	3	*	b	2	–	54	41				
	Brest (St. Mathieu)	1024·3	52	NE	3	b	1026.3	+2	43	0	NNE	2	*	bc	2	–	55	37				
	Rochefort (Ile d'Aix)	1019·9	55	NE	3	b	1022·1	+2	45	+2	NE	3	*	b	*	–	64	43				
	Biarritz	1016·4	55	NW	2	o	1020·4	0	54	+4	NW	2	*	o	2	–	61	52				
	Paris	1020·4	55	N	2	b	1024.2	+1	41	+2	–	0	–	b	*	–	61	37				
	Belfort	1021·0	45	W	6	m	1022·9	*	39	-4	–	0	*	f	*	–	61	34				
	Lyons	1020·0	48	NNE	1	o	1020·7	*	42	-4	N	3	*	b	*	–	49	39				
	Nice	1014·9	54	–	0	b	1012·6	-1	59	+2	–	0	*	b	2	–	66	50				
	Perpignan ..	1016·6	57	–	0	c	1016.2	-1	57	+7	WNW	4	–	m	*	–	64	50				
	Sanguinaire ..	*	57	N	3	c	*	*	55	–	E	3	*	b	2	–	64	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·8	54	NE	6	f	1022·7	+3	52	0	?NE	5	–	bc	2	–	54	50				
	Madrid (8 a.m.)	1014·9	48	ENE	1	r	1016·4	0	48	+2	NE	4	–	r	*	3	48	43				
	Lisbon (7 a.m.)																					
	Gibraltar	1012·2	53	E	4	tlr	1011·2	*	50	-	NE	2	*	b	2	34	55	48				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·1	0	59	0	NNW	2	–	b	1	–	66	54				
	Azores (Horta, 8 a.m.)	1035·7	*	NE	3	o							*									
	Madeira (Funchal)	1019·8	61	N	5	r	1020·7	+1	57	+3	NNE	4	N	r	4	?	61	54				
YESTERDAY'S REPORTS		8 P.M. G.M.T.					9 A.M. 7 A.M. G.M.T.															
ITALY.	Venice	1012·9	59	SW	2	o	1012·6	+1	59	-	–	0	*	o	3	Trace	*	*				
	Turin	1014·6	51	–	0	o	1014.7	+1	52	0	–	0	*	c	*	1	*	*				
	Viesti	1011·1	59	N	1	o	1012·0	0	57	+6	W	3	*	o	4	2	*	*				
	Pesaro	1012·4	55	NE	2	o	1013·5	+3	54	-5	WNW	3	*	o	3	24	*	*				
	Leghorn	1012·0	60	E	2	bc	1013·6	+2	57	-2	–	0	*	bc	3	1	*	*				
	Rome	1012·1	57	SW	7	o	1014·0	+2	57	-2	–	0	*	o	*	24	*	*				
	Brindisi	1009·5	53	WNW	7	o	1011·1	+2	55	-4	NW	6	*	bc	4	–	*	*				
	Cagliari	1014·6	62	NW	3	b	1014·8	0	61	0	WNW	4	*	b	2	–	*	*				
	Palermo	–	–	–	–	–	1016·3	+1	61	-6	NW	3	*	b	4	Trace	*	*				

UPPER AIR.
South Farnborough
Pilot Balloon Ascent at 7.14 a.m.
Wind at 5000 ft. – N by W 30 m.p.h.
" " 4000 ft. – " " 22 "
" " 3000 ft. – " " 13 "
" " 2000 ft. – N 11 "
" " 1000 ft. – N by W 15 "
" " Surface W N W 5 "

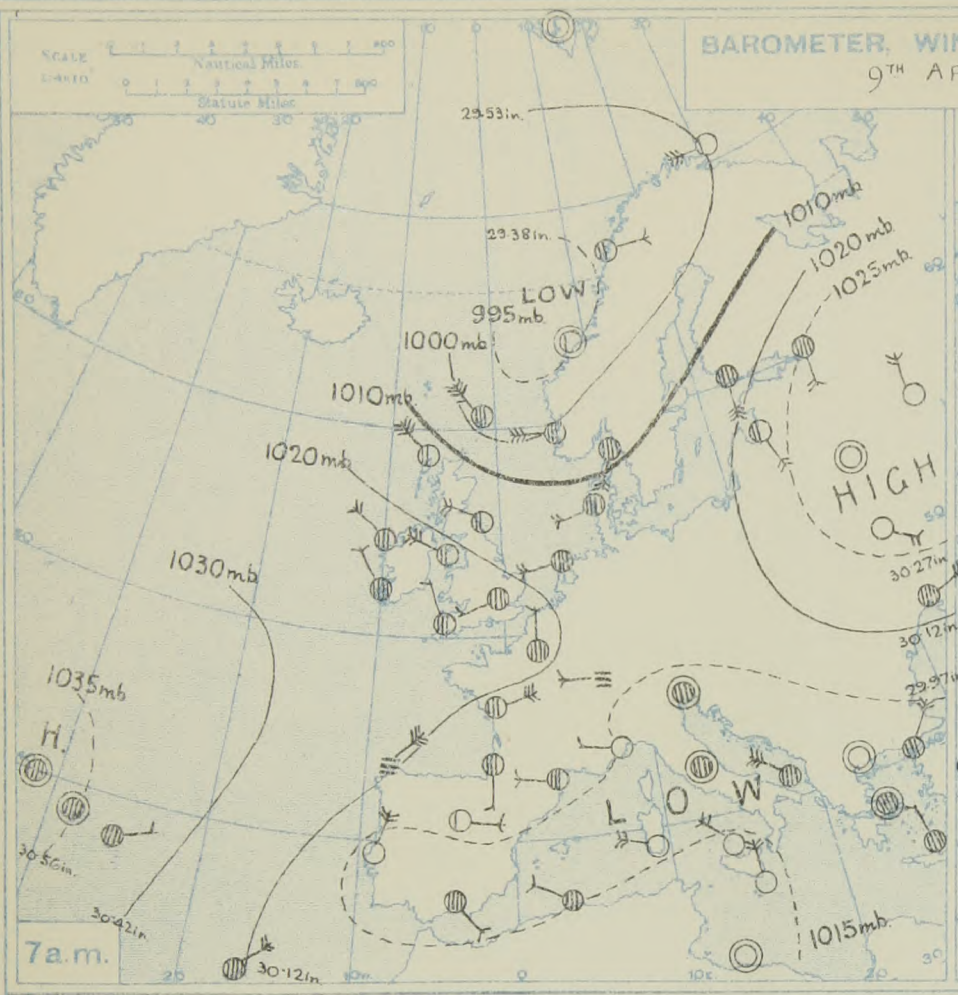
RAINFALL

Equivalents of Millimetres in Inches.

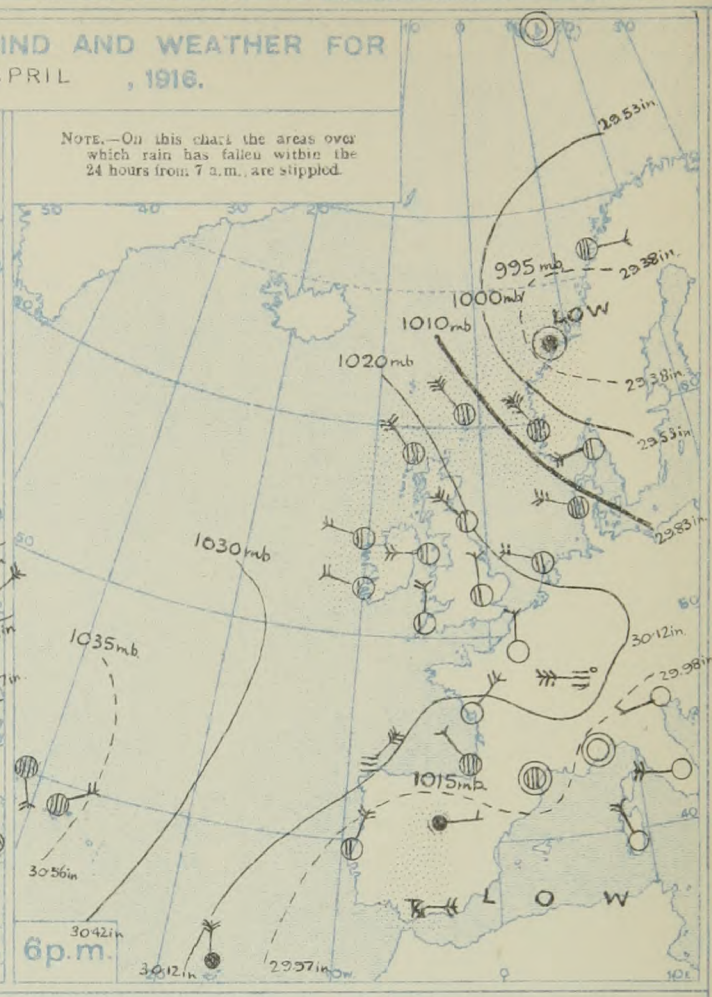
mm.	Inches	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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

BAROMETER, WIND AND WEATHER FOR 9TH APRIL, 1916.



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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 {a b} 1 2 {a b} — South-Westerly wind, increasing; fair to dull, some rain and mist; milder.

3 4 {a b} 5 — Calm and light Northerly breeze, backing Westerly and freshening somewhat; fine generally, some mist; milder.

6 {a b} 7 {a b} — Same as Nos. 0 to 2.

8 {a b} — Same as Nos. 3 to 5.

9 {a b} — Same as Nos. 0 to 2.

10 {a b} — Light variable to freshening South-Westerly breeze; cloudy to dull, some rain and mist; milder.

11 — Moderate North-Easterly breeze; sea moderate; fine to cloudy, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

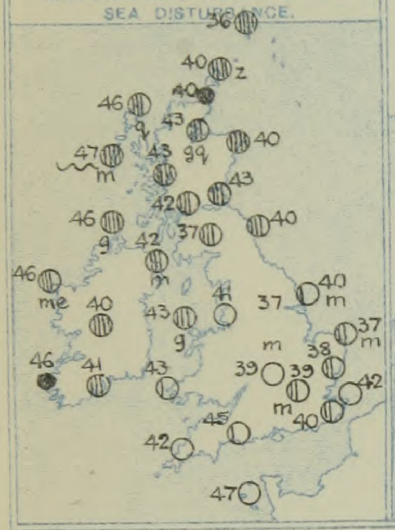
Millibars: 1050 1040 1030 1020 1010 1000 990 980 970
Inches: 31 30 29

SYNOPTIC CHART FOR 7 a.m., MONDAY, 10TH APRIL, 1916.

GENERAL INFERENCE

The influence of a depression in the Iceland region is expected to extend to most parts of the British Isles.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

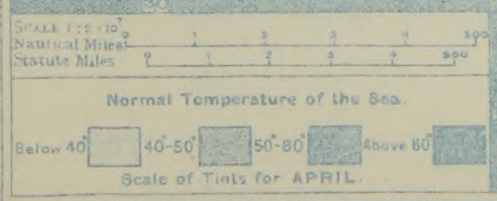
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



Issue No. 19,863.

DAILY WEATHER REPORT.

Monday, 10th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	8h. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	9h. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Velikieluki	-	-	-	-	-	1028.2	?	30	+5	SSE	2	*	b	*	-	*	28
Gorki	1030.4	28	NE	3	b	1027.6	-2	28	+1	-	0	*	b	*	-	*	23
Hangö	1025.5	30	-	0	c	1017.0	-5	32	+5	3	5	*	o	*	-	*	23
Riga	1026.9	34	SSE	2	b	1021.9	-4	34	+6	S	4	*	bc	*	-	*	25
Petrograd	1031.8	32	S	3	b	1025.5	-4	28	+3	S	3	-	b	*	-	36	23
Moscow	1031.3	27	NNE	2	b	1029.2	-1	23	+2	N	3	*	b	*	-	*	19
Kiev	1027.4	32	E	4	b	1026.9	0	30	+3	SE	3	*	b	*	-	*	27
Kharkov	1026.1	28	NE	3	o	1024.4	-1	25	-	WSW	6	*	f	*	1	*	23
Kishinev	1020.8	30	E	3	bc	1021.5	+1	34	-	NE	4	*	o	*	-	*	34
Elisabetgrad ...	1024.3	32	E	2	bc	1025.1	0	28	-15	E	3	*	b	*	-	*	27
Nicolaiev	1020.3	41	ENE	7	o	1023.3	*	30	-13	ENE	6	*	b	o	-	*	27
Odessa	1020.0	50	NE	2	bc	1023.1	+2	32	-13	ENE	4	*	o	o	-	*	30

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	47	39	bc	bc	5.2
	Banff	1	45	38	bcpr	bcrq	7.1
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	49	38	bc.b	bc.c	4.8
	Skegness	-	53	38	bc	bc.o	6.7
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	-	49	42	c.bo	co c.bc	6.0
Midlands.	Buxton						
	Leamington Spa	-	53	40	bc	bc	6.8
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	49	42	b	b	6.4
	Colwyn Bay	-	51	42	bc	bc	8.5
	Llandudno	-	49	42	b	b	8.7
	Aberystwyth	-	48	42	o.c.b	bc.c	10.0
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	55	36	bc	bc.o	5.9
	Walton-on-Naze	-	?	?	bc	bc	4.6
	Southend-on-Sea						
England, S.E.	Margate	-	53	38	c.b	bc	3.4
	Ramsgate	-	53	36	c.bc	bc	3.9
	Hastings	-	56	39	b.bc o	b.bc	4.6
	Eastbourne	-	56	35	b.o bc	o.b bc	3.9
	Seaford						
	Brighton						
	Worthing	-	58	33	b.	bc.b	5.4
	Littlehampton	-	58	32	b.bc	b	5.5
	Bognor	-	57	35	bc	bc	5.8
	Southsea						
	Bournemouth	-	58	39	c.bc	bc	8.0
England, S.W.	Weymouth						
	Torquay	-	58	40	bc.b	b	9.0
	Paignton						
	Penzance						
	Newquay	0.3	50	44	b	b	10.8
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	-	52	40	b	b	11.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	57	70	5.4	57	36	26	-	c bc	b.	b.bx
City (Bunhill Row)	*	*	5.7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	55	65		56	37	34	-	m.b	b.	o.m.
Camden Sq. (Brit. Rainfall)	-	64	6.6	58	37	32	-			
Hampstead (Reservoir) ...	*	64	6.8	54	34	24	-	b	b.	bc.x bc
Richmond Park ...	*	*	5.1							
Kew. (See front page.)	*	*	6.2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	-	65	6.3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
13114 Joules	27.3 Milliwatts.	67 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	55	40	37	c.b	bc	bc	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	58	39	28	bx.bm	bm. c	c. bc	*

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

10th & 11th April 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.8 / 5.6	11.34 / 11.34	6.40 / 6.41
Greenwich	5.18 / 5.16	12.1 / 12.1	6.44 / 6.46
Wick	5.17 / 5.14	12.13 / 12.13	7.9 / 7.11
Valencia	5.58 / 5.56	12.42 / 12.42	7.26 / 7.28

NOTES ON YESTERDAY'S WEATHER.

Temperature rose a little above 55° at several southern stations, but did not pass 43° in Shetland. Slight showers fell in the north and west, snow at Wick. Sunshine was very variable, ten hours and upwards locally in the south-west.

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

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

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

* The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 102

Tuesday, 11th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						F	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1002.0	47	SW	5	om	995.5	0	42	+6	SW	4	NW	bc	3	3	47	35	omp	omp	cm bc	*
	Deerness (Orkney)	1002.4	45	S	4	oz	995.9	*	41	+1	W	4	W	bcp	4	4	48	39	or.cbc	b.cr.o	o.cp.bc	0.5
	Stornoway ...	1001.6	47	WSW	6	odpq	999.0	+1	41	-5	W	5	-	cq	4	3	51	38	c.odp	odpq	bc.cpq	0.5
	Castlebay (Barra Isd.)	1005.3	47	SW	4	opm	1003.7	0	42	-5	W	5	W	bcm	5	2	48	37	omr	r.omp	op.bcm	0.0
	Glasgow ...	1010.9	45	SW	3	omr	1004.4	+1	39	-3	W	2	NW	c	*	7	48	34	c.odp.o	omr	E crhp	0.0
	Eskdalemuir ...	1013.1	41	S	3	ofe	1005.2	+1	38	+1	WNW	5	-	bc	*	10	47	36	c.o.or	or.ofe	or.o.c	0.6
	Malin Head ...	1008.7	47	SW	6	cmqp	1006.6	0	42	-4	NW	6	W	bcq	6	2	53	38	bmq	bmq.p	bcmqp	0.6
	Blacksod Point	1012.4	46	W	5	cm	1012.4	+2	43	-3	NW	7	NW	cmp	5	6	49	37	cmq	omr	cq.mp	*
	Valencia ...	1018.5	48	SW	4	r	1018.3	+1	44	-2	W	4	NW	cq	5	9	52	43	o	or	r.o.bcc.pq	0.0
	Roche's Point	1020.3	51	WSW	3	o	1016.8	*	43	+2	WNW	3	NW	b	3	4	54	41	cf.o	o.c.og	or.b	*
	Birr Castle ...	1016.3	47	SW	3	r	1014.2	*	40	0	W	2	W	c	*	5	53	36	o.c	c.or	or.c	0.5
	Donaghadee ...	1012.6	49	WSW	4	or	1007.9	+1	39	-3	WNW	4	-	bm	3	2	54	38	ogm	ogm.or	omr.bc	*
	Liverpool (Bidston)	1015.7	51	SW	3	o	1008.4	+1	42	+1	WSW	4	W	o	3	2	55	41	b	bc	op	6.5
	Holyhead ...	1015.6	46	SW	5	of	1010.0	+1	42	-1	WNW	6	NW	c	5	4	51	42	b.cf.o	o.c.om	or.o.bc	5.6
	Pembroke (St. Ann's)	1019.3	46	WSW	4	o	1013.1	+2	43	0	NW	5	NW	bq	4	3	50	43	b	bc.o	or.beq	8.4
	Scilly (St. Mary's)																					
	Falmouth ...	1021.2	51	SW	3	bz	1015.1	+3	45	+3	NW	4	-	b	*	1	57	48	b	b	odmf	12.0
	Jersey (St. Aubin)	1022.1	50	NW	2	b	1013.4	*	48	+1	WSW	5	-	oe	3	Trace	53	43	b	b	b.odp	12.3
	Portland Bill ...	1020.5	47	WSW	3	b	?1012.1	-3	47	+2	NW	4	NW	bc	3	1	51	43	b	b	bc.op	*
	Dungeness ...	1019.5	46	SW	3	o	1010.0	-1	45	+5	SW	4	-	opg	3	1	54	40	bc.b	bc.o	c.op	*
	Dover	1020.2	45	SSW	2	b	1009.1	-4	45	+3	SW	3	SW	o	3	1	55	42	b	b	b.bc.op	11.0
	Wick	1003.1	47	SW	3	o	997.8	-1	40	0	SW	3	-	b	1	3	51	34	omp.cq	c.ompq	pd.bc	*
	Nairn	1004.8	50	W	4	opg	1000.4	*	41	-2	W	1	-	bc	2	1	56	37	c.bc.c	q.cu	q.p.c	3.1
	Aberdeen ...	1007.1	50	S	3	oz	1000.3	0	43	+3	W	4	-	b	2	0.3	58	40	ozp.bc	bc.czo	oz.c.b	3.9
	Leith	1009.8	50	W	2	o	1003.2	+1	40	-3	WSW	2	W	b	1	1	52	39	c.o.c.o	o	op.op.b	*
	Tynemouth ...	1013.3	50	SW	4	om	1003.6	-2	43	+3	W	4	-	bmq	3	-	55	39	om	cm	cm	*
	Spurn Head ...	1016.3	50	W	2	om	1004.7	-2	49	+9	WNW	4	-	or	4	1	54	40	bc.m	bc.om	c.om	8.5
	Yarmouth ...	1017.6	45	SW	3	bc	1006.2	-4	45	+8	SW	3	-	c	2	-	49	36	bcm	bc	bc.c	11.3
	Clacton-on-Sea	1019.0	46	SSE	3	b	1007.8	-2	46	+8	SSW	4	W	o	3	-	50	38	bcg	bc.bg	bg.cpg	11.6
	Nottingham ...	1016.1	54	W	3	c	1007.0	*	45	+8	WNW	4	NW	c	*	2	60	37	b.bc	bc.c	c.o	9.8
	Benson (Oxon.) ...	1017.6	55	SW	2	c	1008.7	-1	45	+6	W	3	-	o	*	1	58	38	b	b	b.ob	*
	Sth Farnborough	1018.3	56	WSW	1	bc	1008.8	-3	45	+7	WSW	3	-	r	*	1	60	38	bc.b	b	c.b.or	11.1
	London (Kew Obsy.)	1018.4	57	WSW	2	b	1008.6	-4	45	+6	WSW	3	-	or	*	1	58	39	bcm.bv	bv.b	b.c.or	11.2
NORTHERN EUROPE.	Spitsbergen ...	1011.4	-15	SSE	2	b	1015.4	+2	-19	0	S	1	*	b	*	*	-6	-26				
	Vardö	1003.0	24	-	0	b	1007.7	+2	34	+2	N	1	-	bc	3	*	34	27				
	Bodö	1005.3	37	SW	4	c	1001.9	-4	36	+2	E	2	-	b	1	-	39	30				
	Christiansund	1007.0	34	-	0	c	9953	-4	41	+5	SE	4	-	o	4	4	41	34				
	Skudesnaes ..	1008.0	34	-	0	o	997.0	-4	39	+2	E	6	-	r	3	6	39	36				
	Færder (Xtania Fjord)																					
	The Scaw (Skagen)	1007.9	41	W	3	b	1002.6	-3	41	-2	WNW	2	-	c	2	-	48	37				
	Blaavands Huk	1013.7	39	NW	5	c	1004.2	-5	41	+2	SW	3	-	r	2	Trace	41	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1018.7	43	W	2	b	1005.5	-6	46	+3	SW	5	-	o	2	Trace	46	36				
	C. Gris Nez ...	1018.6	46	N	1	b	1009.7	-5	45	+2	SW	5	*	r	3	1	52	43				
	La Hève	1019.7	45	N	3	b	1012.3	*	45	+2	WSW	5	*	r	4	-	54	43				
	Brest (St. Mathieu)	1022.4	55	N	2	b	1017.0	+1	49	+6	WNW	4	*	f	3	-	64	43				
	Rochefort (Ile d'Aix)	1019.0	57	NE	3	b	1016.2	0	48	+3	N	3	*	b	*	-	66	45				
	Biarritz	1018.5	55	WNW	3	b	1017.1	+1	53	-1	WNW	3	*	o	3	-	57	52				
	Paris	1019.5	54	NNE	1	b	1012.8	-3	39	-2	-	0	-	o	*	-	59	34				
	Belfort	1019.5	46	ENE	3	bc	1013.9	*	39	0	ENE	4	*	m	*	-	51	33				
	Lyons	1017.1	50	NNW	2	bc	1013.5	*	43	+1	ESE	1	*	b	*	-	57	38				
	Nice	1009.1	52	-	0	o	1008.4	0	51	-8	E	1	*	o	2	-	66	46				
	Perpignan ..	1011.0	63	NW	4	b	1009.5	+1	55	-2	NW	5	-	m	*	-	68	50				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021.1	57	NNE	5	b	1023.8	+2	52	0	NNE	4	-	o	2	-	59	50				
	Madrid (8 a.m.)	1011.3	61	NNE	2	c	1014.9	+2	50	+2	-	0	-	b	*	-	63	41				
	Lisbon (7 a.m.)																					
	Gibraltar	1012.2	52	NW	4	bc	1012.8	*	54	+4	W	5	*	b	3	3	56	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1007.3	-1	61	+2	ESE	3	-	c	1	-	63	55				
	Azores (Horta, 8 a.m.)	1036.4	*	NE	4	c							*									
	Madeira (Funchal)																					
	YESTERDAY'S REPORTS	..9h.., 8 P.M. G.M.T.					..10h.., 7 A.M. G.M.T.															
ITALY.	Venice	1011.1	62	WSW	1	b	1009.5	+1	55	-4	-	0	*	b	4	-	*	*				
	Turin	1012.7	60	-	0	b	1010.7	0	54	+2	-	0	*	b	*	-	*	*				
	Viasri	1013.3	57	-	0	b	1010.9	-1	59	+2	NW	4	*	b	2	-	*	*				
	Pesaro	1012.2	55	SW	1	b	1013.6	-2	57	+3	SW	4	*	b	3	-	*	*				
	Leghorn	1015.1	59	-	0	b	1014.0	0	57	0	-	0	*	bc	4	-	*	*				
	Rome	1014.4	55	W	4	b	1013.5	+1	52	-5	-	0	*	f	*	Trace	*	*				
	Brindisi	1012.0	57	NW	1	c	1010.8	0	59	+4	NW	4	*	b	3	2	*	*				
	Cagliari	1014.6	66	NNW	3	b	1013.4	0	59	-2	NW	4	*	b	3	-	*	*				
	Palermo						1013.9	0	61	0	-	0	*	b	1	-	*	*				

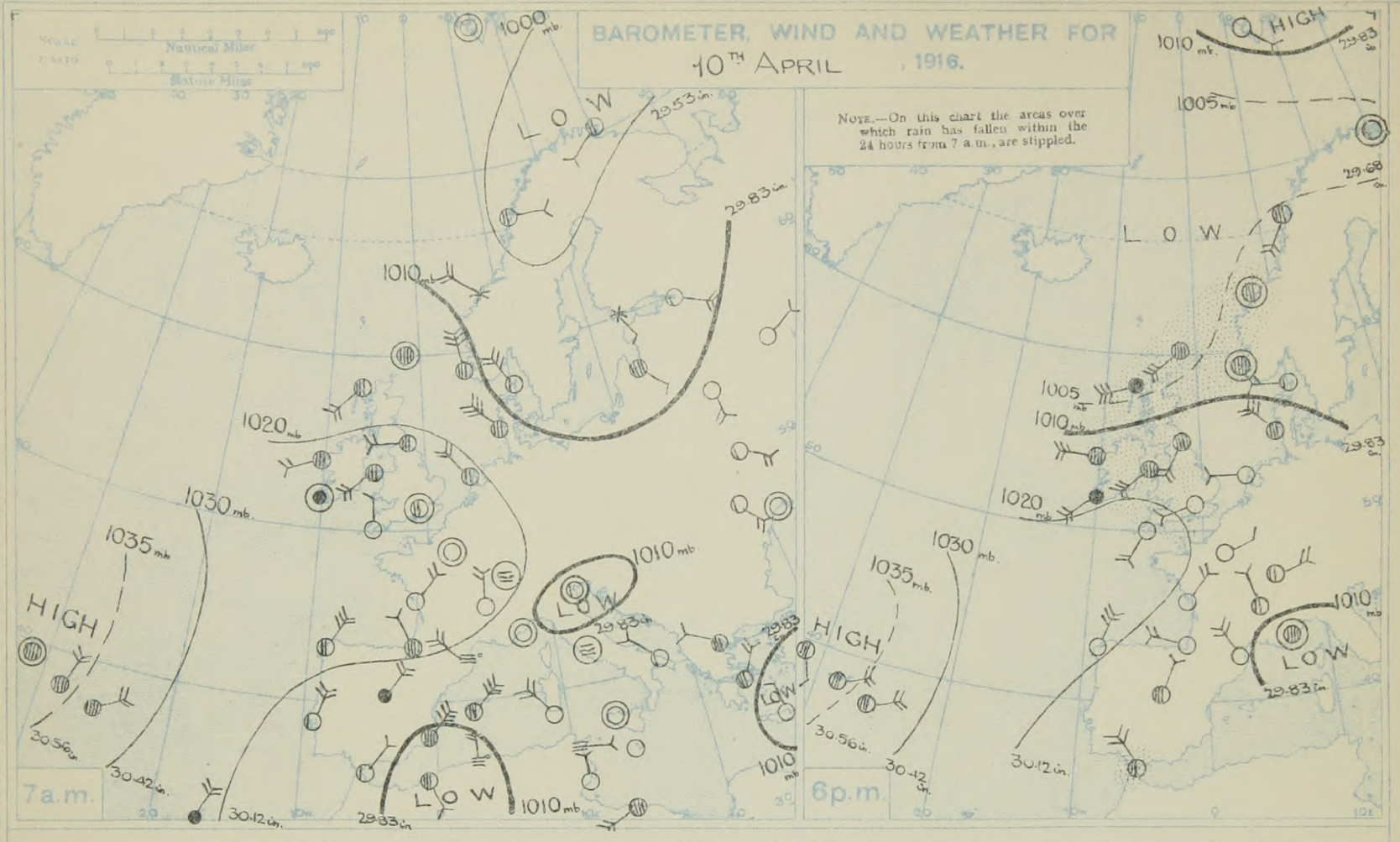
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.43 a.m.
Wind at 4000 ft. WNW 30 m.p.h.
" " 3000 " NW 28 "
" " 2000 " NW 25 "
" " 1000 " W by N 20 "
" " Surface W 12 "

GALES
Duration and Extreme Force in British Islands.

Blacksod Point - 10h 48m - 11h 48m
NW 8 10h 23m - 11h 5m.

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

BAROMETER, WIND AND WEATHER FOR 10TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

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

Wind Westerly to North-Westerly, moderate or light generally; changeable, some showers; considerable fair intervals; moderate or rather low temperature.

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

Wind mainly between West and North-West, moderate or fresh, strong at times locally; mostly fair, some showers; moderate or rather low temperature.

11 Western Channel and Bay

North-Westerly winds, moderate or fresh; sea moderate; mostly fair.

FURTHER OUTLOOK.

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

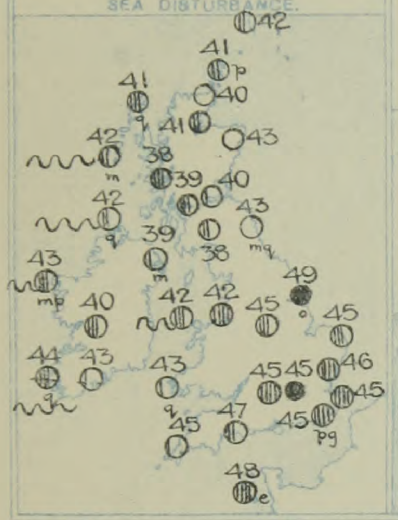
Millibars 1050 1040 1030 1020 1010 1000 990 980 970
Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 11TH APRIL, 1916.

GENERAL INFERENCE.

As the northern depression and the secondary on the North Sea move away eastward the general character of the weather in these Islands will improve.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

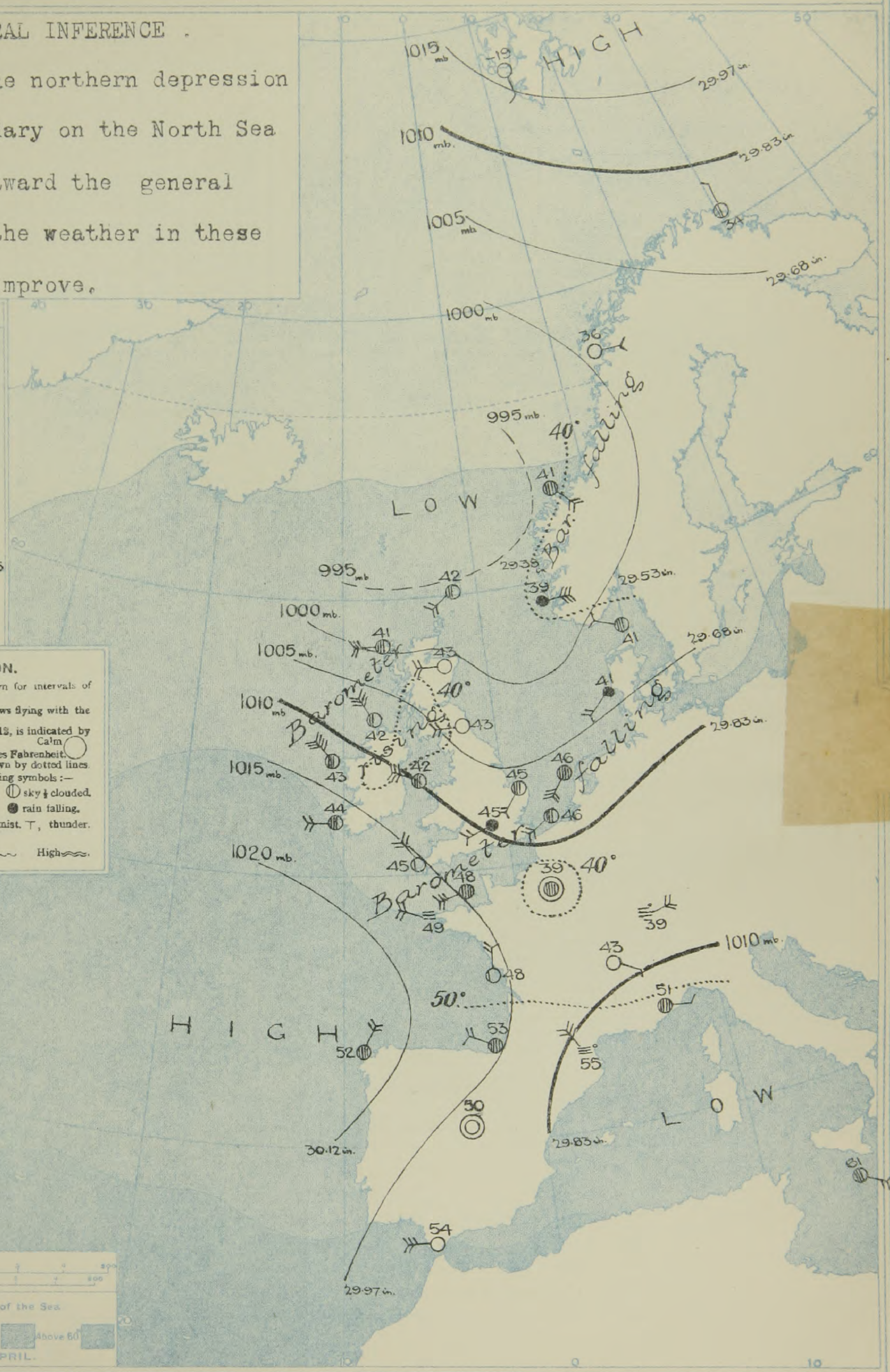
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.



Issue No. 19,864

DAILY WEATHER REPORT.

Tuesday, 11th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...6th... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	...10th... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min
Archangel	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Vilikieloki	1016·6	32	SE	2	b	1008·7	?	32	+2	SE	4	*	b	*	-	*	*
Gorki	1017·9	28	NE	2	b	1010·9	+5	30	+2	S	3	*	b	4	-	*	27
Hangö	1005·0	34	SSE	3	o	997·4	+3	32	o	-	0	*	S	4	?	*	27
Riga	1008·7	43	SSE	3	o	999·9	?	?	?	SSE	1	*	o	o	13	*	32
Petrograd	1014·3	36	S	4	o	1007·5	-4	30	+2	SE	4	-	b	*	-	41	28
Moscow	1021·9	28	ENE	2	b	1017·6	-3	25	+2	ENE	2	*	b	*	-	*	21
Kiev	1018·6	34	E	2	b	1013·0	-3	32	+2	SE	3	*	b	*	-	*	28
Kharkov	1018·0	28	NNW	2	b	1013·3	-3	27	+2	?	2	*	S	*	-	*	*
Kishinev	1018·0	37	S	2	b	1013·1	-2	34	o	SE	3	*	b	*	-	*	32
Elisabetgrad ...	1019·0	34	ENE	2	b	1015·1	+2	27	-1	-	o	*	b	*	-	*	16
Nicolaiev	1017·9	37	-	o	b	1014·0	*	32	+2	-	o	*	b	o	-	*	27
Odessa	1019·0	39	S	2	b	1014·4	+2	37	+5	SSW	2	*	o	o	-	*	32

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	?	47	40	r	or	0·0
Scotland.	Banff	1	57	34	c.bc	bc.c	2·2
Scotland.	St. Andrews	-	52	37	*	*	2·5
Eng. N.E.	Harrogate	-	55	32	b.bc.b	b.bc.c	6·0
Eng. N.E.	Skegness	-	56	34	b	b.o	9·7
Eng. N.W.	Morecambe	-	60	37	bz.o	o	2·3
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	-	54	40	bc.c.bc	bc.c.	5·2
Mid.	Buxton						
Mid.	Leamington Spa	-	60	36	b.bc	bc	9·6
Mid.	Malvern						
Mid.	Ross-on-Wye	-	62	33	bcx	bc.b	11·0
Wales.	Rhyl	-	55	33	b	b	7·1
Wales.	Colwyn Bay	-	58	35	bc	bc.o	6·3
Wales.	Llandudno	-	58	35	b	b.bc.	8·8
Wales.	Aberystwyth	-	52	36	c.b.	c.ed.	9·5
Wales.	Tenby	-	54	33	b	bc	10·1
England, E.	Lowestoft	-	49	36	b.bc.b	b	11·7
England, E.	Felixstowe	-	50	35	bm.bc	bc.b.	10·7
England, E.	Walton-on-Naze	-	?	?	b	b	11·2
England, E.	Southend-on-Sea	-	58	38	b	b	9·5
England, S.E.	Margate	-	51	40	b	b.	10·8
England, S.E.	Ramsgate	-	53	38	b	b	11·3
England, S.E.	Hastings	-	54	40	b	b	11·2
England, S.E.	Eastbourne	-	55	39	b	b	11·3
England, S.E.	Seaford	-	56	38	b	b	11·7
England, S.E.	Brighton	-	55	38	bc.b	b	11·4
England, S.E.	Worthing	-	55	37	b	b	12·1
England, S.E.	Littlehampton	-	53	41	b	b	11·8
England, S.E.	Bognor						
England, S.E.	Southsea						
England, S.E.	Bournemouth	-	60	37	b	b	12·2
England, S.W.	Weymouth	-	57	38	b.b.	b	11·5
England, S.W.	Torquay	-	57	40	b	b	11·6
England, S.W.	Paignton	-	58	37	b	b	11·6
England, S.W.	Penzance	-	57	42	b	b.bc.	11·6
England, S.W.	Newquay	*	54	35	b	b	11·3
England, S.W.	Ilfracombe	-	54	40	b	b	11·6
England, S.W.	Weston-super-Mare ...	-	53	34	b	b	11·0
England, S.W.	Bude	-	55	?	b	b	11·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-day.)	Temperature. In Screen. Min. (24 hours ended 9 a.m. To-day.)	Temperature. Min. on Grass. (24 hours ended 9 a.m. To-day.)	Rainfall. (24 hours ended 9 a.m. To-day.)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	48	85	10·7	57	44	37	2	bz	bz	c.oop
City (Bunhill Row)	*	*	10·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	50	83	10·8	59	45	41	2	b	b	b.ur
Camden Sq. (Brit. Rainfall)	46	97	10·4	60	42	40	2	b	b	*
Hampstead (Reservoir) ...	*	87	11·6	58	41	37	2	b.	bbc	c.or
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	11·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	47	86	11·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1630 Joules	33·7 Milliwatts.	63 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	54	38	28	bc.b	b	b	*

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

11th and 12th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.6 / 5.4	11.54 / 11.54	6.41 / 6.43
Greenwich	5.16 / 5.14	12.1 / 12.1	6.46 / 6.48
Wick	5.14 / 5.11	12.13 / 12.13	7.11 / 7.14
Valencia	5.56 / 5.54	12.42 / 12.42	7.30 / 7.30

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 60° at some places in south-east England. Bright sunshine was very abundant in the south and east, but elsewhere there was little or none. Rain fell during the night or early morning in nearly all districts.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 103. Wednesday, 12th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	995·2	43	WNW	5	bc	989·0	-3	40	-2	SSW	4	–	0	3	5	47	35	bcp	bcp	cp	*
	Deerness (Orkney)	997·6	42	W	6	cq	985·4	*	39	-2	S	4	-	r	4	4	46	38	bcp.c	cq	c or	7·4
	Stornoway ...	1001·4	42	W	5	cpq	985·6	0	45	+4	WSW	4	-	cpq	4	4	45	39	bcpq	bc.cpq	or cpq	3·2
	Castlebay (Barra Isd.)	1004·4	43	W	4	0	989·1	-2	47	+5	WSW	4	-	om	4	6	48	40	bcp om	c om	omr. pm	4·9
	Glasgow ...	1006·8	43	W	3	c	991·6	-2	46	+7	W	1	-	b	*	8	46	35	cr. h sq	cr . sp	c.op.bm	6·0
	Eskdalemuir ...	1007·4	44	WNW	4	0	992·2	-5	43	+5	W	2	-	0	*	15	47	36	bc dhp	bc op c	o or	7·3
	Malin Head ...	1007·9	44	W	5	bcmq	992·3	0	47	+5	SW	5	-	omq r	6	8	47	38	bcqp	cmq	omq r	6·1
	Blacksod Point	1010·5	45	W	6	cm	993·1	-2	48	+5	W	7	W	cmp	5	3	49	40	cmph	cmp	omr.op	*
	Valencia ...	1016·8	48	SW	4	c	1004·8	-3	50	+6	SW	5	-	oam	*	1	52	44	c bc b	bc	op	6·8
	Roche's Point	1017·1	50	WNW	3	c	1004·7	*	52	+9	W	3	W	c	3	1	52	43	bc.cpq	cpq	c.op.c	*
	Birr Castle ...	1013·8	47	W	3	c	1000·3	*	51	+11	W	3	-	o	*	3	52	40	c	c	or . o	5·1
	Donaghadee ...	1009·6	47	NW	4	cgm	994·3	0	50	+11	W	4	W	bcqpm	3	2	50	38	bcmqp	cgm	omq r	*
	Liverpool (Bidston)	1010·6	45	W	4	bc	996·5	-7	47	+5	SW	5	SW	og	5	8	48	41	bc	c	or	7·7
	Holyhead ...	1012·1	47	W	4	bc	997·8	-4	46	+4	WSW	5	-	opf	5	2	50	42	c bc b	b. bc. c	o.or.op	9·2
	Pembroke (St. Ann's)	1015·3	46	W	4	bc	1003·0	-4	47	+4	W	5	-	f	4	3	48	43	b	bc	orf	10·9
	Scilly (St. Mary's)																					
	Falmouth ...	1017·3	47	WNW	5	bq	1008·1	-6	48	+3	SW	7	-	r	*	2	51	43	bcq cq	bcq bq	b. orq	11·7
	Jersey (St. Aubin)	1015·8	50	WNW	4	b	1012·9	*	46	-2	WSW	4	-	og	3	0·1	53	45	0.cp.b	b	b.og	8·8
	Portland Bill ...	1013·7	48	NW	5	bc	1007·6	-6	47	0	WSW	6	SW	o	5	0·2	51	45.	bc	bc	bc.c.op	*
	Dungeness ...	1009·4	48	WNW	3	bc	1007·2	-3	45	0	SW	5	-	ou	4	-	50	36	ph.bc	bc	b.bc.o	*
	Dover	1010·0	47	NW	4	bc	1006·5	-5	44	-1	SW	4	SW	o	6	2	53	37	op r c	bc	bc.coe	4·9
	Wick	999·9	40	W	3	c	986·0	-6	40	0	S	4	W	c	4	2	49	34	cmq ph	cqp	omq op	*
	Nairn	1002·4	42	W	2	cg	987·3	*	46	+5	W	1	-	bc	1	1	48	38	bc hpc	q c	c bc	6·1
	Aberdeen ...	1002·8	46	W	3	c	988·6	-5	41	-2	S	3	W	cg	2	0·4	52	39	bc bq	bcq	cp cg	9·9
	Leith	1005·3	45	W	2	c	990·3	-4	47	+7	WSW	2	W	c	3	1	49	39	b bc. c	b	c.op.bc	*
	Tynemouth ...	1005·5	49	NW	4	bcq	993·2	-6	43	0	SW	4	-	r	3	4	51	41	bcq	bcq	bcp	*
	Spurn Head ...	1006·9	48	NNW	5	bc	998·2	-7	41	-8	WSW	6	-	orq	6	3	51	40	bc	bc	bq	7·5
	Yarmouth ...	1007·8	46	N	2	bc	1003·4	-6	40	-5	WSW	4	-	or	3	4	50	34	c omr	bc	bc or	2·9
	Clacton-on-Sea	1009·4	48	WNW	3	c	1004·9	-5	43	-3	SSW	4	-	r	3	3	51	38	ogr.c	cp	bc c or	1·9
	Nottingham ...	1010·2	47	WNW	6	b	999·2	*	44	-1	SW	4	SW	r	*	3	51	40	cp bc	bc b	bc c	8·9
	Benson (Oxon.) ...	1011·5	48	NW	4	b	1004·3	-6	44	-1	SW	5	-	o	*	1	50	34	ph	bc	b.od	*
	Sth Farnborough	1011·2	50	WNW	4	bc	1005·0	-7	43	-2	SW	6	-	or	*	1	52	36	bcqp	hp.bc	b or	6·5
	London (Kew Obsy.)	1011·4	49	NNW	2	b	1004·7	-5	44	-1	SW	5	-	orm	*	2	52	39	or.h.op.c	c.bv	b.o.orm	4·8
NORTHERN EUROPE.	Spitsbergen ...	1017·0	-15	SSE	1	b	1018·6	+2	-19	0	SSE	1	*	b	*	*	-8	-27				
	Vardö	1011·8	28	NE	2	o	1013·3	+1	28	-6	ENE	4	-	o	3	*	34	25				
	Bodö	999·5	34	E	4	b	996·7	-1	39	+3	SE	2	-	b	1	-	39	32				
	Christiansund	994·0	41	-	0	c	991·1	0	43	+2	SE	2	-	b	3	4	45	39				
	Skudesnaes ..	997·0	41	NNW	3	0	991·8	-2	41	+1	N	1	-	o	2	8	41	37				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	996·8	39	SSE	2	f	993·2	0	39	-2	WNW	3	W	c	3	4	41	36				
	Blaavands Huk	999·0	41	WNW	2	f	998·9	-2	39	-2	W	3	-	o	3	5	41	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1005·2	43	NW	4	b	1004·2	-1	41	-5	WSW	5	-	r	3	2	46	41				
	C. Gris Nez ...	1011·0	46	N	2	bc	1008·3	-5	45	0	SW	5	*	o	4	5	48	43				
	La Hève	1014·0	45	W	5	c	1012·3	*	44	-1	SW	5	*	o	4	-	54	41				
	Brest (St. Mathieu)	1019·4	49	NNW	5	bc	1015·5	-2	49	0	W	5	*	o	4	-	55	48				
	Rochefort (Ile d'Aix)	1015·9	50	NW	6	c	1019·9	0	48	0	W	2	*	o	*	-	57	45				
	Biarritz	1018·9	54	NW	4	0	1020·8	+1	50	-3	NNW	3	*	c	2	1	55	50				
	Paris	1011·0	45	NW	3	b	1014·3	0	39	0	SSW	2	-	o	*	2	52	34				
	Belfort	1008·8	43	WSW	7	r	1015·3	*	39	0	W	6	*	c	*	3	58	36				
	Lyons	1010·3	54	NNW	2	0	1016·2	*	41	-2	NNW	4	*	bc	*	1	63	39				
	Nice	1005·3	54	E	1	0	999·4	+3	52	+1	–	0	*	c	4	14	63	41				
	Perpignan ..	1010·4	59	NW	4	b	1014·4	+3	48	-7	NNW	5	NW	bc	*	-	66	46				
	Sanguinaire ...	*	57	N	3	m	*	*	52	.	NW	6	*	m	6	-	64	46				
SOUTHERN EUROPE.	Corunna (5 a.m.)	1023·1	54	NNE	5	c	1025·1	+2	48	-4	SSW	1	-	f	2	?	55	48				
	Madrid (8 a.m.)	1012·3	66	NNW	1	b	1019·9	+4	46	-4	–	0	-	b	*	-	66	34				
	Lisbon (7 a.m.)	1015·8	57	NNW	6	b	1018·7	+3	54	0	NNW	3	–	b	5	-	63	52				
	Gibraltar	1016·2	60	W	5	b	1017·3	*	58	+4	W	6	*	m	4	-	69	54				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·7	+2	61	0	NNE	3	-	o	2	-	64	59				
	Azores (Horta, 8 a.m.)	1036·4	*	NE	4	b	1034·1	0	59	+4	–	0	*	bc	1	-	63	54				
	Madeira (Funchal)	1023·9	63	N	4	bc	1024·8	+1	55	-	NE	3	-	c	3	-	64	55				
YESTERDAY'S REPORTS		...10th..., 8 P.M. G.M.T.					...11th..., 7 A.M. G.M.T.															
ITALY.	Venice	1006·2	-	0	63	c	1010·7	+2	50	-5	W	5	*	o	4	Trace	*	*				
	Turin	1006·2	-	0	63	b	1009·2	+2	50	-4	-	0	*	o	*	-	*	*				
	Viesti	1009·4	NNE	3	55	b	1007·4	-2	54	-2	SE	3	*	o	2	-	*	*				
	Pesaro	1006·1	S	5	61	b	1009·0	+4	55	-2	E	4	*	o	5	-	*	*				
	Leghorn	1010·6	-	0	59	b	1008·6	0	55	-2	NE	3	*	b	3	-	*	*				
	Rome	1010·2	SW	3	57	b	1008·0	0	52	0	N	3	*	f	*	-	*	*				
	Brindisi	1009·2	-	0	59	b	1006·9	0	57	-2	-	0	*	b	2	-	*	*				
	Cagliari	1009·2	SE	4	70	b	1005·2	0	61	+2	NNW	5	*	b	3	-	*	*				
	Palermo	1010·9	-	0	57	b	1008·6	0	61	0	-	0	*	b	1	-	*	*				

GALES
Duration and Extreme Force in British Islands.

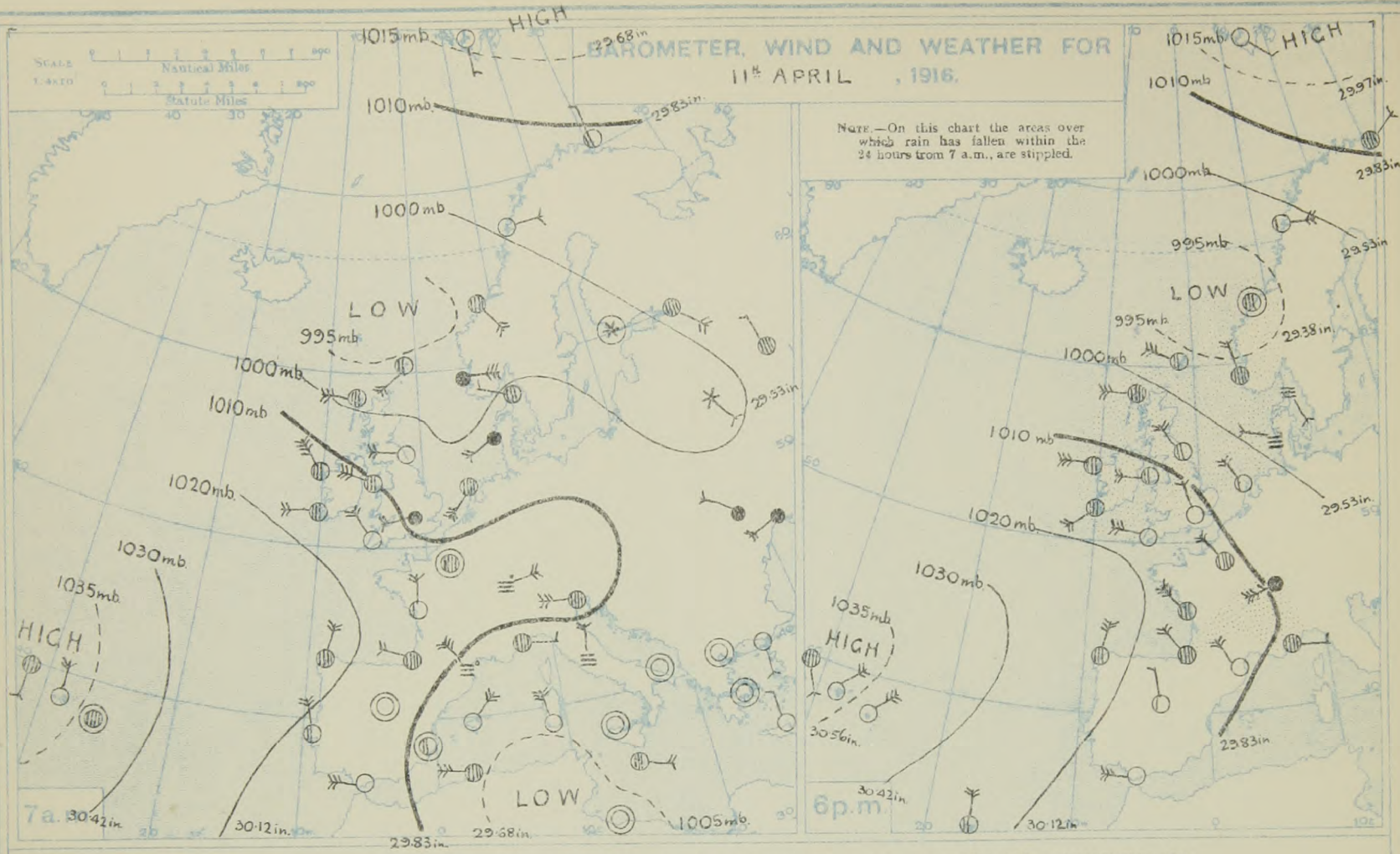
Eskdalemuir :- 11th. Gust WNW 23 m.p.s at 13hrs.

Blacksod Point :- SW 8 11th 20hrs - 12th 4hrs.

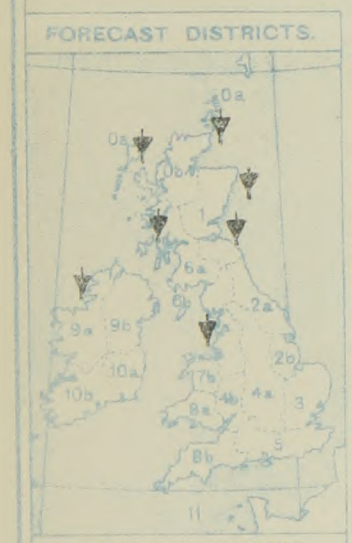
Dover :- 11th NW 8 at 14 hrs.

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

BAROMETER, WIND AND WEATHER FOR 11th APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.



STORM WARNINGS.

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

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

Warnings Issued at 3.0 a.m.

0 a, b; 1	Western Channel and Bay	Southerly to Westerly winds, light to fresh; changeable, showery or rainy; rather cool.
2 a, b; 3; 4 a, b; 5		South - Westerly to Westerly winds, fresh or strong, then moderate; rainy to showery and fair intervals; rather cool.
6 a, b		Same as Nos. 0 and 1.
7 a, b; 8 a, b; 9 a, b; 10 a, b; 11		South-Westerly to Westerly or North Westerly winds, fresh or strong, then moderate; rainy or showery to fairer; moderate or rather low temperature.
		South-Westerly to Westerly or North-Westerly winds strong to moderate; sea rough; rainy to fair; some mist or fog.

FURTHER OUTLOOK.

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

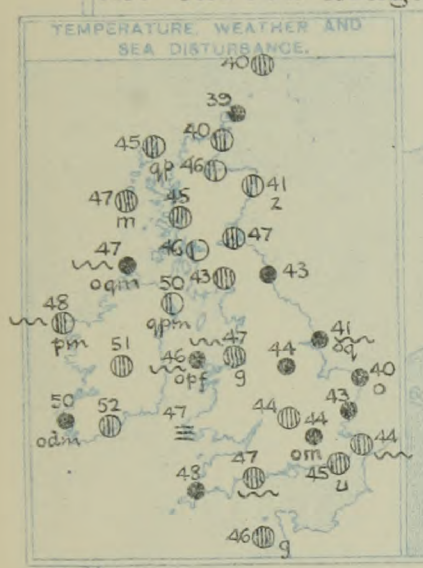
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970 — Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 12TH APRIL, 1916.

GENERAL INFERENCE.

The general distribution of pressure is likely to continue favourable for winds between South-West and West or North-West over the United Kingdom.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

SEA DISTURBANCE.—Rough ∿∿ High ≈≈.

Scale of Tints for APRIL.

Normal Temperature of the Sea.

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

Scale 1 : 12 · 10⁶
Nautical Miles
Statute Miles

HIGH
1015mb
1010mb
1005mb
1000mb
995mb
1020mb
1025mb
1030mb
LOW
985mb
990mb
1000mb
1005mb
1010mb
1015mb
Barometer falling generally
Bar. rising
LOW
1010mb
1005mb
1000mb
29.37in
29.83in
29.68in
29.53in
29.38in
29.24in
29.09in
30.42in
30.27in
30.12in
29.97in
29.83in
29.68in
29.53in
40°
50°
Inches
31
30
29

Issue No. 19865.

DAILY WEATHER REPORT.

Wednesday, 12th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...10th...AT 9 P.M. LOCAL TIME.					...11th...AT 7 A.M. LOCAL TIME.											
	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.
		°F.						°F.	F.								
Archangel	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Vilikieluki	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Gorki	-	-	-	-	-	997·3	+3	32	+2	WSW	2	*	S	*	12	*	30
Hango	-	-	-	-	-	996·2	0	32	0	-	0	*	S	0	?	*	*
Riga	-	-	-	-	-	999·7	0	36	?	-	0	*	S	?	2	*	*
Petrograd	1003·3	37	SE	4	bc	1002·1	0	32	+2	SE	4	S	0	*	-	57	30
Moscow	1008·4	32	ENE	2	b	1005·6	+1	32	+7	NNW	1	*	0	*	-	*	25
Kiev	1001·3	46	SE	3	0	-	-	-	-	-	-	*	-	*	-	*	-
Kharkov	1009·9	34	NW	1	0	1008·2	+2	30	+3	W3W	2	*	C	*	-	*	27
Kishinev	1003·3	50	SSE	5	c	1005·2	+1	36	+2	NW	2	*	r	*	12	*	32
Elisabetgrad ...	1007·0	41	S	3	c	1003·0	-2	39	+2	S	3	*	r	*	-	*	27
Nicolaiev	1008·6	45	SSW	6	c	1006·3	*	45	+13	SSW	7	*	0	0	-	*	28
Odessa	1007·8	45	SSW	5	0	1003·8	+1	45	+8	W3W	4	*	r	0	-	*	37

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	46	37	p.bc	o	4·6
	Banff	-	49	39	bc	bc.c.	9·5
	St. Andrews				*	*	
Engl. N.E.	Harrogate	1	50	40	b.bc.b	b.bc.b	10·4
	Skegness	2	52	42	p.bc	p.c.p.b	6·0
Engl. N.W.	Morecambe	0·3	48	42	bc.c	bc.	7·2
	Blackpool						
	Southport	3	48	42	3bc.c.b	bc.c	9·2
Midlands	Buxton						
	Leamington Spa	1	51	44	p.c.bc	bc.b.	7·6
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	3	47	42	p.bc	bc.	9·6
	Colwyn Bay	2	49	41	bc	b.	8·6
	Llandudno	0	48	42	b	b.	9·6
	Aberystwyth	2	48	42	r.o.c	bc.c.	8·0
	Tenby	4	54	40	bc	bc	9·7

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	4	50	43	o.p.h	o.p.h.bc	1·5
	Felixstowe	3	51	44	o.r.bc	b.c.p	3·1
	Walton-on-Naze	3	?	?	o.c.r.bc	bc.	1·8
	Southend-on-Sea	3	51	44	o.p.c.bc	bc.b.	3·7
England. S.E.	Margate	3	49	43	o.p.r	bc.	2·9
	Ramsgate	3	49	42	r.c.	p.c.	3·7
	Hastings	5	50	43	r.c.	bc.	2·9
	Eastbourne	4	54	46	b.c.p	b.c.p.bc	5·4
	Seaford	4	52	42	r.c	bc	5·3
	Brighton	2	53	45	o.c.r	r.c	5·9
	Worthing	1	55	43	bc.r	bc.b	6·3
	Littlehampton	0·1	54	43	o.bc.b	b.	5·7
	Bognor						
	Southsea						
	Bournemouth	1	53	42	b	b.	9·5
England. S.W.	Weymouth	1	54	43	bc.b	b.y	8·5
	Torquay	0·3	54	45	bc	bc	11·3
	Paignton	1	53	42	b.c.p	b.c	10·6
	Penzance	1	52	45	c.b	b.	11·5
	Newquay	1	49	45	b	b.	10·5
	Ilfracombe	4	49	40	bc.b.	b.bc.	9·0
	Weston-super-Mare ...	1	50	43	b.bc	b.bc.c	7·0
	Bude.	3	55	45			10·4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	51	72	3·4	53	38	31	4	c.p.o	o.c.bc	b.o.or
City (Bunhill Row)	*	*	5·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	51	93		53	39	35	5	r.bc	bc.u	c.u.or
Camden Sq. (Brit. Rainfall)	46	93	5·4	54	39	34	3	or.c	bc.b	
Hampstead (Reservoir) ...	*	94	5·4	52	36	26	5	or.c	bc.	bx.r
Richmond Park ...	*	*	4·6							
Kew. (See front page.)	*	*	4·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	48	93	4·6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
859 Joules	17·7 Milliwatts	65 Milliwatts

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	5	51	38	36	or.bc	c.p.p	c.b.q	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	58	43	36	b.o	or.o.g	c.b.	*

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

12th/13th April. 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5.34 / 5.32	11.34 / 11.34	6.43 / 6.45
Greenwich	5.14 / 5.12	12.1 / 12.1	6.48 / 6.50
Wick	5.11 / 5.9	12.13 / 12.13	7.14 / 7.17
Valencia	6.54 / 6.52	12.42 / 12.42	7.30 / 7.32

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° in most parts of the Kingdom, and many localities recorded several hours of sunshine. Rain fell very generally, the largest measurement being 15 millimetres at Eskdalemuir.

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

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

, The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 104 Thursday, 13th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather	THIS MORNING 7 a.m., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	981·3	45	S	4	om	981·4	0	41	+1	SSW	2	S	bc	1	9	47	38	omp	omp	om bc	
	Deerness (Orkney)	980·3	43	W	5	c	979·0	*	40	+1	SSW	4	-	o	3	3	50	37	r o	op c	c o	1·4
	Stornoway ...	982·0	45	W	5	cpq	984·6	+7	38	-7	NW	4	-	cpq	4	7	47	38	cpq	cpq	bc dpq	3·3
	Castlebay (Barra Isd.)	983·7	45	SW	4	cp	987·6	+4	43	-4	NW	3	NW	c	3	3	49	40	m bc dp	o bc	c dp bc	6·0
	Glasgow ...	987·9	45	WSW	4	op	986·5	+2	?41	-5	W	2	NW	bc	*	7	51	39	bc cp	cpq bc	c bc bp	6·1
	Eskdalemuir ...	989·2	42	W	5	b	988·0	+1	39	-4	WSW	5	-	o r	*	7	54	38	cp	cp	c op o	6·5
	Malin Head ...	989·6	45	W	6	bcq	989·3	+2	44	-3	WNW	6	NW	bcq	7	3	46	41	cmq	bcqph	cqp	5·4
	Blacksod Point	995·0	46	WNW	7	bcqp	995·5	+1	42	-6	NW	7	NW	bcqp	5	1	51	40	bcqp	bcqp	bcqp	*
	Valencia ...	1003·4	48	WSW	5	c	1003·8	+2	46	-4	W	5	W	bc	4	3	53	44	om	o bp c	cp bdpq	4·2
	Roche's Point	1002·2	52	W	4	bc	1003·0	*	44	-8	WNW	3	-	b	1	0·2	57	42	cpq	cpq bc	bc b	*
	Birr Castle ...	998·2	48	W	4	c	998·5	*	42	-9	W	1	W	c	*	3	55	40	cqp	cqp	cp	5·4
	Donaghadee ...	992·7	46	WNW	6	bcmqp	990·9	+2	43	-7	W	5	W	bcmq	4	1	55	42	bcmqp	bcmqp	bcmpq	*
	Liverpool (Bidston)	993·9	48	WSW	5	c	993·9	0	45	-2	WSW	6	W	bc	6	0·2	56	43	od	bcq	cq	3·7
	Holyhead ...	995·3	50	WSW	6	c	995·7	+1	45	-1	W	6	NW	bcq	5	Trace	55	44	op cm	c op c	c o bbc	3·8
	Pembroke (St. Ann's)	1000·0	48	WNW	6	oq	1001·0	0	45	-2	WNW	5	NW	bcq	5	1	49	44	f	f cq	bq bcq	1·6
	Scilly (St. Mary's)																					
	Falmouth ...	1004·9	51	W	7	bcq	1004·4	0	45	-3	W	4	-	b	*	3	55	44	rq oq	oq bcq	bcq pq	2·6
	Jersey (St. Aubin)	1006·6	50	WSW	5	fc	1005·6	*	49	+3	W	5	W	c	4	3	51	46	ogp o	opd fc	fd o oc	0·0
	Portland Bill ...	1001·5	49	W	5	c	1001·4	+1	46	-1	W	6	W	bc	5	1	49	45	c or	bcp	bc cp	*
	Dungeness ...	998·1	48	SW	6	o	999·8	+1	46	+1	WSW	5	SW	b	5	7	48	44	or	or o	bc	*
	Dover	999·3	50	WSW	5	o	999·9	0	46	+2	SW	4	SW	b	4	5	50	42	r o	r c bc o	o c bc b	0·2
	Wick	981·5	49	WNW	2	o	980·5	0	41	+1	W	2	-	r	2	1	53	36	ogpd	ons bcp	bc omr	*
	Nairn	988·3	44	W	2	bcg	981·9	*	42	-4	NNW	4	-	cqg	4	2	56	36	bc cp	p r c bc	p c	7·0
	Aberdeen ...	983·7	46	WNW	5	cp	982·4	+1	42	+1	WSW	2	-	o	2	1	57	37	cz bc	bc cp	bc bdp	7·5
	Leith	986·9	48	W	2	c	985·3	+1	42	-5	NW	2	NW	bc	3	3	53	39	c cp c	c dp c	cpa bc	*
	Tynemouth ...	988·6	49	WNW	4	cmq	986·9	-2	45	+2	W	5	W	bcmq	4	1	57	41	cmp	cmqp	bcmq	
	Spurn Head ...	990·9	51	WNW	7	bcq	992·4	-1	50	+9	WNW	5	-	oqp	6	0·2	54	?41	oqpc	bcq	opq	3·0
	Yarmouth ...	992·8	50	N	3	cli	993·2	+1	43	+3	NW	4	-	bc	3	14	58	40	or bc	bcp tb	or bc	2·4
	Clacton-on-Sea	995·6	53	WSW	4	c	994·9	+1	45	+2	WSW	4	-	b	4	5	55	42	org	qp bc c	c bc b	1·6
	Nottingham ...	993·5	54	W	5	c	994·5	*	44	0	WSW	4	W	c	*	2	60	41	r o c	c tbp	cp o c	3·1
	Benson (Ozon.) ...	997·1	51	WSW	5	o	998·4	-1	46	+2	WSW	5	-	b	*	1	57	41	o	bc	b	*
	Sth Farnborough	997·6	52	W	6	bc	999·5	0	45	+2	WSW	5	-	bc	*	1	56	42	p o	o b	bcp	2·0
	London (Kew Obsy.)	997·5	55	W	4	c	999·1	-1	45	+1	WSW	4	W	bc	*	3	57	42	orm, o r o	or. c. b. bc	c. o. bc	1·9
NORTHERN EUROPE.	Spitsbergen ...	1019·0	-9	SE	1	b	1021·4	+3	-8	+11	-	0	*	b	*	*	-4	-2·0				
	Vardö	1013·7	30	ESE	4	o	1015·3	0	27	-1	SE	6	-	c	3	*	30	24				
	Bodö	999·1	37	E	2	b	998·1	0	39	0	E	2	-	c	2	-	41	36				
	Christiansund	989·0	43	-	0	c	985·6	0	39	-4	E	3	-	c	3	-	50	39				
	Skudesnaes ...	986·7	39	ESE	4	o	984·0	0	36	-5	E	6	-	r	2	1	45	36				
	Færder (Tania Feed)																					
	The Skaw (Skagen)	990·3	41	NW	2	b	987·3	0	39	0	E	2	-	o	2	-	45	34				
	Blaavands Huk	989·9	39	SSE	2	o	987·0	+1	41	+2	W	1	-	o	3	2	41	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	991·4	46	SW	5	c	993·9	+3	46	+5	WSW	4	-	c	4	6	46	41				
	C. Gris Nez ...	999·5	46	WSW	8	f	1000·6	+1	46	+1	W	6	*	bc	5	9	49	45				
	La Hève	1002·9	46	SW	5	r	1003·3	*	46	+2	WSW	5	*	o	5	4	49	44				
	Brest (St. Mathieu)	1011·3	52	W	8	o	1009·6	+1	50	+1	W	4	*	f	3	1	52	48				
	Rochefort (Ile d'Aix)	1016·2	52	WSW	6	o	1013·0	0	52	+4	W	6	*	f	*	3	54	46				
	Biarritz	1020·4	52	W NW	3	c	1018·7	-2	55	+5	WSW	3	*	o	3	-	55	50				
	Paris	1005·4	48	SW	4	o	1005·9	+1	48	+9	SW	2	-	r	*	5	54	39				
	Belfort	1011·0	45	WSW	4	o	1008·6	*	45	+6	W	6	*	o	*	3	49	39				
	Lyons	1014·7	50	N	1	o	1013·3	*	46	+5	S	2	*	o	*	1	53	41				
	Nice	1007·3	53	-	0	b	1005·1	*	55	+3	-	0	*	b	2	-	64	46				
	Perpignan ...	1014·3	54	NW	3	o	1013·4	+1	63	+15	NW	5	-	bc	*	-	63	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·9	55	NW	5	o	1022·6	+1	52	+4	S	4	-	f	3	-	55	48				
	Madrid (8 a.m.)														*							
	Lisbon (7 a.m.)																					
	Gibraltar	1019·3	58	NW	6	b	1020·0	*	57	-1	NW	6	*	m	3	-	65	55				
	Malta (8 a.m.) ...	*	*	*	*	*	1009·0	+3	57	-4	NW	4	-	b	3	-	64	55				
	Azores (Horta, 8 a.m.)	1032·3	*	SSW	1	o							*									
	Madeira (Funchal)	1023·1	61	NE	3	o	1023·5	0	54	-1	NE	3	N	bc	3	-	63	54				
YESTERDAY'S REPORTS		...11th..., 8 P.M. G.M.T.					...12th..., 7 A.M. G.M.T.															
ITALY.	Venice	1006·2	55	-	0	o	1003·6	o	46	-5	NNE	3	*	r	4	4	*	*				
	Turin	1005·0	52	-	0	o	1004·6	o	52	+2	-	0	*	bq	*	-	*	*				
	Viesti	1006·9	55	E	6	b	1002·6	o	57	0	SSW	5	*	c	3	-	*	*				
	Pesaro	1005·7	54	E	1	c	1001·2	o	55	0	NE	1	*	bc	2	-	*	*				
	Leghorn	1005·7	61	-	0	c	1000·2	o	57	+2	S	5	*	o	5	1	*	*				
	Rome	1005·4	57	S	4	b	1001·6	o	59	+7	SW	1	*	b	*	-	*	*				
	Brindisi	1005·3	59	ESE	1	b	1003·1	o	55	-2	ESE	1	*	bc	1	1	*	*				
	Cagliari	1003·7	70	W	5	b	1002·6	o	59	-2	NW	4	*	bc	4	-	*	*				
	Palermo	1005·2	57	-	0	c	1003·0	o	63	+2	-	0	*	bc	2	-	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..7·10 a.m.
Wind at 1000 ft W by S 20 m.p.h.
" " Surface W by S 22 m.p.h.

GALES
Duration and Extreme Force in British Islands.

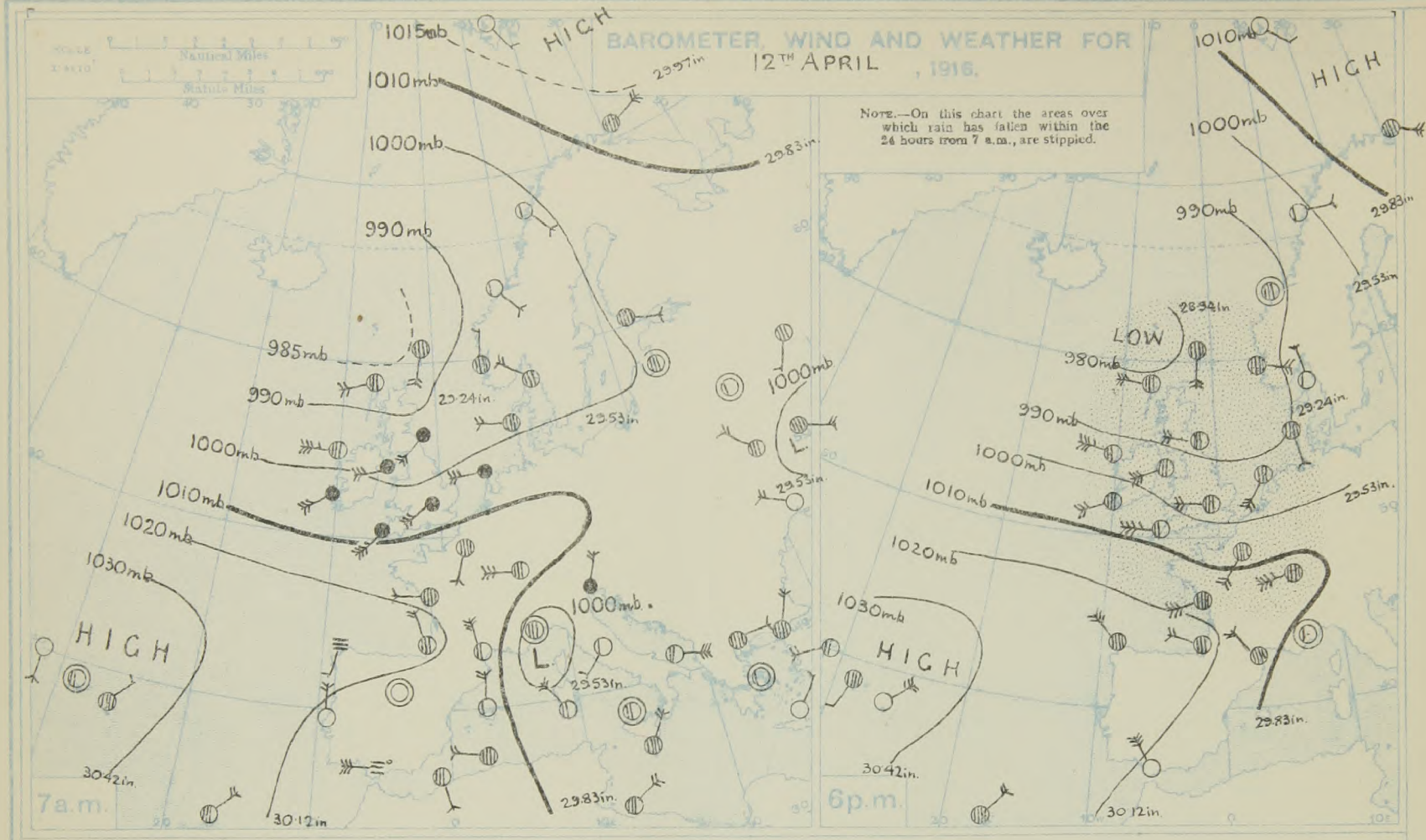
Holyhead :- 12th
16 hrs. W.S. Gust 21 m.p.s.

Nottingham :- 12th
16 hrs. W.S.

Spurn Head
12th 16 hrs Gust 25 metres [WNW] and Line-Squall.

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

BAROMETER, WIND AND WEATHER FOR 12TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 (a, b), 1 — North-Westerly winds, light to strong; changeable, showery; some sleet or snow; rather low temperature.

2 (a, b), 3, 4 (a, b), 5 — Wind between West and North-West, moderate or fresh, strong at times; mostly fair, but showers locally; rather cool.

6 (a, b) — Same as Nos. 0 and 1.

7 (a, b), 8 (a, b), 9 (a, b), 10 (a, b) — Wind between South-West and North-West, moderate or fresh, strong at times; changeable, some showers, considerable fair intervals, rather cool.

11 Western Channel and Bay — Westerly winds, fresh; sea rather rough; some showers, otherwise fair.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 13TH APRIL, 1916.

GENERAL INFERENCE.

It appears probable that the northern depression will finally move eastward or south-eastward. Local irregularities of pressure over these Islands will give rise to showers in several districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

Scale 1 : 9 : 10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for APRIL.

Issue No. 12,866.

DAILY WEATHER REPORT.

Thursday, 13th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	11h. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	7h. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1009.6	27	NNE	1	0	1009.7	?	23	-	-	0	*	0	*	-	*	18
Vilikieluki	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Gorki	1001.3	32	-	0	b	1001.2	+1	32	0	-	0	*	b	*	3	*	26
Hango	1001.9	34	ESE	2	5	1001.4	0	32	0	ESE	2	*	0	*	-	*	30
Riga	1000.7	37	-	0	0	1001.3	+2	36	0	-	0	*	c	*	?	*	20
Petrograd	1004.0	39	ESE	2	0	1004.0	+1	34	+2	ESE	3	-	3	*	-	41	32
Moscow	1006.0	34	SSE	1	0	1004.5	+2	34	+2	-	0	*	c	*	-	*	30
Kiev	1003.4	37	WNW	2	c	1003.0	0	36	-	NW	3	*	c	*	5	*	22
Kharkov	1004.3	45	E	2	0	997.6	-3	37	+7	ESE	3	*	0	*	2	*	30
Kishinev	1006.0	41	NW	3	b	1005.3	+3	36	0	N	2	*	b	*	1	*	32
Elisabetgrad ...	1002.0	36	NW	4	r	998.7	0	37	+2	WNW	5	*	r	*	8	*	36
Nicolaiev	1001.6	41	NW	5	0	1003.9	*	37	-8	WSW	6	*	bc	*	11	*	36
Odessa	1004.7	39	WNW	3	bc	1006.6	+3	36	-9	WNW	3	*	b	*	13	*	34

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	10	49	37	bc	c	3.4
	Banff	2	57	38	bc	r. c2	4.7
	St. Andrews	1	58	38	*	*	6.8
Engd., N.E.	Harrogate	3	55	37	o.c.bc	bc.b	4.9
	Skegness	3	60	37	o bc	bc r.b	4.2
Engd., N.W.	Morecambe	1	51	40	cp.bc	bc.cp	3.0
	Blackpool						
	Southport	23	53	41	o.cbc	or q.c.o	1.8
Midlands.	Buxton	22	54	38	bcr	bc	2.1
	Leamington Spa	3	60	41	r.o.c	c.bc	3.3
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	3	57	43	p bc	c	4.7
	Colwyn Bay	5	57	44	bcp	bcp	? 4.3
	Llandudno	11	54	44	p b	p b	3.0
	Aberystwyth	7	48	44	r.o	c.o	0.5
	Tenby	8	54	43	r bc	bc.o	1.5
England, E.	Lowestoft	?	58	39	or.p.c	c.o.c	2.6
	Felixstowe	4	56	38	or	o.bc	1.8
	Walton-on-Naze	4	?	?	o.cr.o.c	c.o.bc	1.5
	Southend-on-Sea	3	55	38	or.c	o.c.bc.b	1.2
England, S.E.	Margate	4	57	40	or	c.bc.b	2.2
	Ramsgate	4	52	36	r.o	c.bc	1.3
	Hastings	5	49	36	or	or.o	0.0
	Eastbourne	2	48	41	or	o	0.0
	Seaford	5	48	39	or	o	0.0
	Brighton	4	48	40	o	o	0.0
	Worthing	3	50	38	od	od	0.1
	Littlehampton	5	54	?	r	o b c	0.5
	Bognor	7	51	39	or	r.o.bc	1.0
	Southsea						
	Bournemouth	3	55	41	r.o	o c.	1.0
England, S.W.	Weymouth	1	52	44	o d c.	c.bc.c	1.0
	Torquay	1	55	44	o p	o.c.	1.7
	Paignton						
	Penzance	5	54	48	or.c	c	0.4
	Newquay	1	51	45	o d m	o c m	0.2
	Ilfracombe	5	50	40	d f o	o	0.0
	Weston-super-Mare ...	14	50	43	o d	c b c c	0.5
	Bude	5	52	45	o d	o o	0.3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	88	69	1.9	51	42	35	1	or.o	op.o.c	bc.b.o
City (Bunhill Row)	*	*	1.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	70		57	42	36	1	r.bc	bc e.u	bc u
Camden Sq. (Brit. Rainfall)	81	66	2.2	57	41	36	1	or.o	o.bc.	*
Hampstead (Reservoir) ...	*	68	1.1	55	39	30	1	or.o	o c	c.o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	1.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	81	67	1.3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
404 Joules	8.3 Milliwatts.	35 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	3	56	45	43	or.q	c.bq	cpq	*
Darwen to 9 p.m.	27	52	36	33	or.u	or u	bcor.u	1.2
Manchester ,,	17	57	41	*	or.o	ac.bc	bcor.u	1.9
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 8 p.m.)	4	58	40	29	b c	oor.o	o.bc	*

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

13th & 14th April 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	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.

Temperature exceeded 55° in many places. Showers fell very generally and thunder and lightning occurred locally in the east and south of England. Few stations recorded as much as 5 hours of bright sunshine.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 105. Friday, 14th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather	Sea (*)	PAST 24 HOURS. Rain-fall Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					†	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	983·1	44	S	2	bc	988·1	+1	40	-1	-	0	-	o	o	0·4	47	36	bc	bc	bc. cp	
	Deerness (Orkney)	984·4	39	WNW	7	opq	990·2	"	37	-3	WNW	6	-	obq	5	5	43	37	obq	obq	obq	0. 5
	Stornoway ...	991·8	42	NNW	6	bcq	996·7	+2	35	-3	W	2	-	bc	2	3	45	35	cbq	bcq	bc brs	6. 2
	Castlebay (Barra Isd.)	995·0	43	NW	4	bc	1000·3	+5	37	-6	WNW	4	-	rsh	4	5	47	36	c bcp	cp bc	bc rsh	10 3
	Glasgow ...	991·5	44	WNW	4	c	999·9	+3	36	-5	W	3	NW	b	"	1	49	33	bcp	cp. bc. c	bc. bsp	9. 8
	Eskdalemuir ...	992·0	42	WNW	5	cv	1000·2	+3	37	-2	WNW	5	-	bc	"	1	49	33	bph. bc	bc cv	c. bcp	6. 6
	Malin Head ...	994·5	43	NW	6	bcqp	1002·4	+1	41	-3	NW	6	NW	bcq	6	8	45	36	bcqp	bcqp	bcqp	4. 7
	Blacksod Point	1002·0	43	NW	8	bcqp	1008·1	+3	39	-3	NW	7	NW	bc qp	5	9	46	35	cqp	cmqr	bcqph	"
	Valencia ...	1009·2	46	W	6	bc	1014·3	+3	44	-2	W	4	NW	bcph	4	1	48	42	bcqph	c bcq	bcbq	9. 0
	Roche's Point	1005·7	47	WNW	6	bc	1012·9	"	42	-2	WNW	3	NW	bc	3	0·3	50	39	bc. cpq	cphq	c. b. bc	"
	Birr Castle ...	1009·2?	40	W	4	c	1010·2	"	40	-2	W	2	-	bc	"	1	50	35	cqp	cqp	bc	7. 4
	Donaghadee ...	995·1	43	WNW	4	cgmqp	1003·7	+2	38	-5	WNW	5	W	bcqp	4	8	48	36	cqp	cmqp	cmqph	"
	Liverpool (Bidston)	995·6	44	WSW	5	o	1004·9	+5	40	-5	W	6	W	bcq	5	2	50	39	bcq	bc. oq	o r q	3. 8
	Holyhead ...	996·9	46	W	7	cgq	1006·8	+3	41	-4	WNW	6	NW	bq	6	2	51	40	bc. c	c. obq	obq cbc	6. 6
	Pembroke (St. Ann's)	1001·8	46	WNW	6	bq	1010·9	+2	43	-2	WNW	5	NW	bcq	5	-	47	43	bcq	bcq	bc bcq	9. 4
	Scilly (St. Mary's)																					
	Falmouth ...	1006·0	47	W	7	bq	1013·7	+2	41	-4	W	3	-	b	"	1	52	41	cq. bq	cqq. bp	bcq bq	11. 2
	Jersey (St. Aubin)	1006·4	49	W	6	b	1014·0	"	45	-4	WNW	5	-	qp	4	1	53	41	c o b	bc. b	b. oqp	8. 5
	Portland Bill ...	1002·1	48	W	6	bc	1009·6	+4	45	-1	WNW	6	NW	b	5	1	52	41	bc	bc	bc. cbq	
	Dungeness ...	998·7	48	SW	6	bc	1005·7	+6	42	-4	WNW	4	W	c	4	1	51	40	bc	bc	bc. or. c	"
	Dover	999·3	42	NW	5	r	1005·6	+6	43	-3	WNW	4	NW	c	5	3	53	39	bcphr	bc. cqp	bc. qbc	8. 3
	Wick	986·2	37	WNW	4	c	992·1	+3	39	-2	NW	4	-	c	3	3	44	34	0 mr. c	cmpq	qp	"
	Nairn	989·9	44	NW	5	cqq	995·3	"	40	-2	W	2	-	bc	2	1	48	36	bc. cpr	qc	cq. bc	2. 1
	Aberdeen ...	988·7	44	WNW	6	b	994·6	+2	40	-2	W	5	-	c	3	0·3	52	38	crhpq	bcpq	bcq	6. 0
	Leith	990·2	47	WNW	2	c	998·3	+5	38	-4	W	2	W	c	2	1	52	36	b	b	qp bcc	"
	Tynemouth ...	990·3	50	NW	4	bcq	998·7	+3	40	-5	WNW	4	W	c	3	-	53	35	bcmq	bcq	bcq	"
	Spurn Head ...	992·4	47	WNW	5	o	1000·9	+4	41	-9	NW	6	-	cq	5	-	51	38	bcq	c oq	bcq	2. 1
	Yarmouth ...	995·0	46	W	3	bc	1001·5	+5	42	-1	NW	3	-	bc	2	0·4	54	40	bcp	bcp	bcp	7. 4
	Clacton-on-Sea	996·8	51	W	4	bc	1004·0	+6	42	-3	WNW	4	NW	c	3	1	52	41	bcp. bc	bc	bc. cp	8. 5
	Nottingham ...	995·6	44	W	4	c	1004·0	"	41	-3	W	3	W	c	"	3	51	40	cp. o	qp. c	cp. oc	2. 2
	Benson (Oxon.) ...	999·0	46	W	5	c	1007·3	+5	42	-4	W	4	-	b	"	1	53	39	bc	b cp	b	"
	Sth Farnborough	998·9	49	W	6	bc	1007·4	+5	42	-3	W	5	-	b	"	3	56	39	bcp	bc	bcpq. b	11. 1
	London (Kew Obsy.)	999·0	46	W	4	bc	1007·0	+6	42	-3	WNW	4	-	b	"	1	53	41	o bc. c. o	or bhq. bc	bc. bcp. b	5. 9
NORTHERN EUROPE.	Spitsbergen ...	1022·0	-6	-	0	b	1023·5	+2	-11	-3	ESE	1	"	b	"	"	5	-24				
	Vardö	1016·0	24	SE	5	o	1017·1	+3	24	0	SE	6	-	o	-	"	28	27				
	Bodö	986·9	39	E	4	c	998·1	+3	41	+2	E	4	-	c	2	-	41	37				
	Christiansund	987·5	39	E	1	c	990·9	+1	39	0	SE	3	-	c	3	-	45	37				
	Skudesnaes ..	985·5	37	ESE	4	o	985·7	0	41	+5	-	0	-	o	2	4	41	34				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	987·1	39	SSE	2	o	989·1	+3	41	+2	WSW	1	-	o	2	4	41	37				
	Blaavands Huk	988·4	41	WSW	3	o	993·1	+1	41	0	WNW	3	-	c	3	Trace	45	34				
	Haparanda ...														"							
	Hernösand ...														"							
	Stockholm ...														"							
	Wisby														"							
	Karlstad														"							
FRANCE, &c.	The Helder ...	993·7	46	SW	3	c	998·1	+5	45	-1	NW	3	-	c	3	-	48	45				
	C. Gris Nez ...	997·6	46	W	7	bc	1005·1	+5	43	-3	W	7	"	o	7	Trace	50	41				
	La Hève	1004·0?	46	SW	5	bc	1008·7	"	43	-3	NW	7	"	c	7	2	50	43				
	Brest (St Mathieu)	1011·5	48	WNW	5	bc	1017·7	+2	46	-4	NW	5	"	bc	4	1	54	43				
	Rochefort (Ile d'Aix)	1011·9	50	WNW	6	r	1019·1	+3	49	-3	NW	6	"	c	"	14	54	45				
	Biarritz	1016·7	56	W	3	o	1022·3	+2	51	-4	NW	4	"	c	4	1	57	50				
	Paris	1004·4	50	WNW	3	bc	1009·3	+2	43	-5	W	3	-	bc	"	2	57	41				
	Belfort	1005·9	43	W	5	r	1010·0	"	39	-6	W	6	"	c	"	9	46	36				
	Lyons	1008·3	52	SSW	1	r	1015·9	"	43	-3	WNW	4	"	b	"	11	52	37				
	Nice	1003·7	52	S	2	b	1003·7	+3	52	-3	WSW	5	"	b	6	-	66	50				
	Perpignan ..	1011·3	66	NW	3	b	1017·0	+5	52	-11	NW	3	-	b	"	-	73	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·5	57	W	5	r	1027·4	+2	50	-2	-	0	NE	b	3	1	61	46				
	Madrid (8 a.m.)	1014·7	72	W	2	b	1020·4	+3	54	0	-	0	NW	b	"	-	73	50				
	Lisbon (7 a.m.)																					
	Gibraltar	1020·3	59	NW	6	b	1019·6	"	58	+1	NW	4	"	b	3	-	69	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·7	0	61	+4	NW	5	-	b	4	-	64	57				
	Azores (Horta, 8 a.m.)	1027·7	*	-	0	b	1025·7	-1	57	+1	-	0	"	b	1	-	68	54				
	Madeira (Funchal)	1023·0	61	NE	2	o	1022·7	+1	54	0	NE	2	-	o	2	-	64	54				
YESTERDAY'S REPORTS		12½, 8 p.m. G.M.T.					13½, 7 A.M. G.M.T.															
ITALY.	Venice	1006·7	48	-	0	b	1004·4	0	50	+4	-	0	"	b	3	5	"	"				
	Turin	1006·7	48	-	0	b	1004·4	0	50	-2	-	0	"	b	"	-	"	"				
	Viesti	1006·4	?	-	0	o	1006·6	0	59	+2	-	0	"	b	2	-	"	"				
	Pesaro	1007·9	54	WSW	3	c	1003·9	0	50	-5	SSW	2	"	o	2	-	"	"				
	Leghorn	1004·3	59	-	0	b	1004·9	0	59	+2	W	2	"	b	5	-	"	"				
	Rome	1006·0	55	-	0	b	1008·3	0	55	-4	-	0	"	o	"	-	"	"				
	Brindisi	1005·5	57	NW	4	b	1006·4	0	57	+2	SSW	4	"	b	1	-	"	"				
	Cagliari	1002·6	63	NW	5	r	1010·6	0	61	+2	NW	4	"	b	3	5	"	"				
	Palermo	1006·4	59	SSW	1	b	1010·4	0	59	-4	-	0	"	b	1	Trace	"	"				

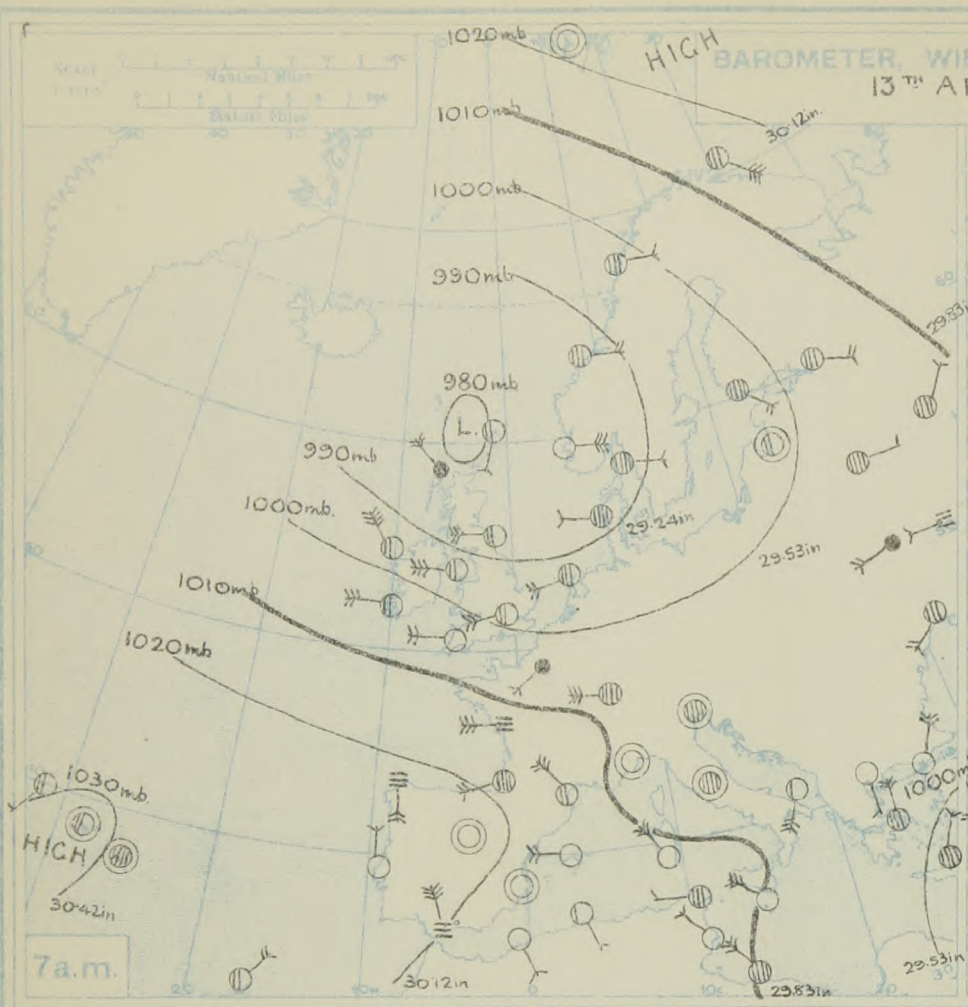
UPPER AIR.
South Farnborough.
First Balloon Ascent at 7.8 a.m.
Wind at
2000 ft. NW 50 m.p.h.
1000 ft. WNW 25 m.p.h.
Surface WbyN 11 m.p.h.

GALES
Duration and Extreme Force in British Islands.

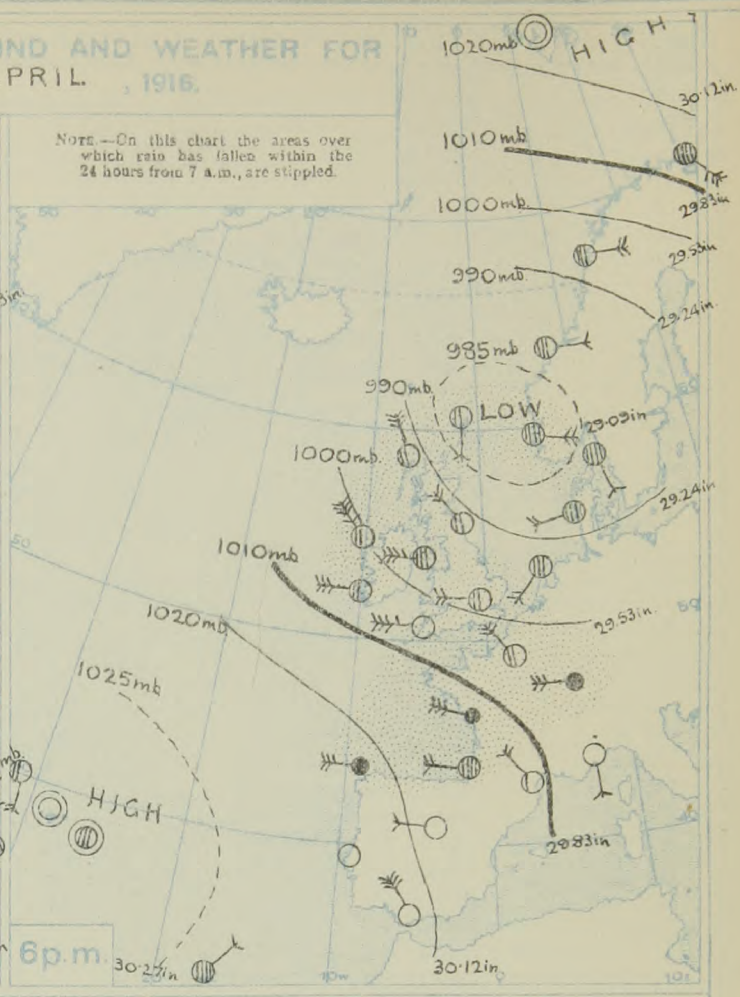
Blacksod Point.
13th 9hrs – 14th 5hrs.
N.W. 8.
Jersey (St. Aubin) 13th.
10 p.m. – past midnight.
W. 8.
London (Kew Obsy) 13th
Ext. W 20 m.p.s. at 13 hrs.
Aberdeen 13th
18 hrs. Gust WNW 18 m.p.s.

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

BAROMETER, WIND AND WEATHER FOR 13TH APRIL, 1916.



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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b — North-Westerly winds, moderate or fresh, strong locally, moderating later; some showers, rain, hail or sleet; fair intervals; rather cold.

2 a, b — North-Westerly winds, fresh to moderate;

3

4 a, b — mostly fair, some showers; rather low temperature.

5

6 a, b — Same as Nos. 0 and 1.

7 a, b — Same as Nos. 2 to 5.

8 a, b

9 a, b — Same as Nos. 0 and 1.

10 a, b

Western Channel and Bay 11 — North-Westerly and Westerly winds; moderate or fresh; fair generally; local showers.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 14TH APRIL, 1916.

GENERAL INFERENCE

The general character of the weather is likely to improve somewhat, but showers are still probable in many districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

SCALE 1:9×10⁶
Nautical Miles 0 1 2 3 4 5 6
Statute Miles 0 1 2 3 5 6 7

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

HIGH
1020 mb.
30·12in
1015 mb
1010 mb
1005 mb
1000 mb
995 mb.
990 mb.
29·97in.
29·83in
29·68in
29·53in
29·38in
29·24in.
Barometer
985
LOW
990 mb.
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
rising
generally
HIGH
1005 mb
LOW
29·09in
29·24in
29·38in.
29·53in.
29·68 in
29·97in.
30·12in.
30·27in.
29·68in.
29·83in.
40°
50°
45°
60°
30
31
29
Inches

Issue No. 19,867

DAILY WEATHER REPORT

Friday, 14th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...12th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	...13th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	-	-	-	-	-	-	-	-	-	-	%	-	-	-	%	-
Vilikieluki	-	-	-	-	-	-	-	-	-	-	-	%	-	%	-	%	%
Gorki	1004·2	39	-	0	b	1001·5	-?	37	+5	E	1	%	0	0	-	%	32
Hango	996·7	34	ESE	2	0	996·3	0	34	+2	SSE	3	%	0	%	6	%	30
Riga	997·9	39	S	3	0	997·9	0	37	+1	-	0	%	bc	%	4	%	36
Petrograd	1007·3	36	SE	3	b	1004·6	+1	36	+2	ESE	3	3	c	%	-	41	32
Moscow	1010·6	41	ESE	3	b	1007·4	+1	36	+2	NE	2	%	0	%	-	%	34
Kiev	1005·0	39	NW	2	0	1004·4	0	37	+1	WSW	3	%	r	%	-	%	28
Kharkov	998·1	36	S	1	0	1003·5	+3	37	0	W	2	%	f b	%	3	%	36
Kishinev	1008·8	43	N	2	c	1006·1	+2	41	+5	SW	3	%	b	%	-	%	36
Elisabetgrad ...	1005·6	37	WNW	2	b	1007·4	+1	36	-1	S	1	%	0	%	3	%	32
Nicolaiev	1009·1	43	W	2	b	1007·9	%	41	+4	SW	3	%	c	0	-	%	36
Odessa	1009·0	?	NNW	?	?	1007·9	0	45	+9	SW	3	%	c	0	-	%	36

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	48	38	b	b	10·1
	Banff	0·2	48	37	bc	pr.bc.	5·3
	St. Andrews				*	*	
Eng. N.E.	Harrogate	0·3	50	40	o.c.bc	b.bc.c	5·4
	Skegness	-	53	41	o.cu	o.cu.c	3·4
Eng. N.W.	Morecambe	1	47	43	c.bc	p.bc.c	2·4
	Blackpool						
	Southport	1	49	43	c.bc.o.c	c.op.c.o	4·8
Midlands.	Buxton	0·3	46	38	bc	bc	3·9
	Leamington Spa	1	51	43	c.bc	bcp	6·6
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	1	51	42			7·0
	Colwyn Bay	-	49	44	bc	bcp.	
	Llandudno	1	49	43	b.bc.c	cc	6·8
	Aberystwyth	-	48	43	o.c.b	c.bc.	5·5
	Tenby	1	51	43	bc	bc	1·0
England. E.	Lowestoft	2	55	40	c.op.c	c.o.c	6·0
	Felixstowe	0·2	54	41	bcp	bc.	9·7
	Walton-on-Naze	2	?	?	bcgr.bc	bcgr.b	9·6
	Southend-on-Sea	2	54	41	c.o.bcp	op.c.bc.	6·5
England. S.E.	Margate	0·3	53	42	b.bc	bc.cp	7·5
	Ramsgate	-	54	40	cp	cp.	7·6
	Hastings	1	54	43	op.bc.b.	b.	10·0
	Eastbourne	-	51	45	bcq	bcq	9·6
	Seaford	Trace	50	45	bc	bcp	9·5
	Brighton	-	52	46	o.c.bc	c.bc	9·5
	Worthing	-	55	45	bc	bch.bc	9·4
	Littlehampton	-	54	42	b	b.	10·5
	Bognor						
	Southsea						
	Bournemouth	1	57	44	bc	bc.	10·0
England. S.W.	Weymouth	1	54	44	b.bc	bc.	9·0
	Torquay	0·2	54	45	bc.b	bc.	11·3
	Paignton	-	56	43	bc	bc	10·9
	Penzance	2	53	46	cp.bc	bc.	10·5
	Newquay	*	50	46	b	b.	8·5
	Ilfracombe	0·2	49	40	bc.b.	b.p.bc.	8·0
	Weston-super-Mare ...	-	50	43	b	b.	11·0
	Bude	1	52	44	c.bcp	bcp.	8·4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	75	69	4·9	56	40	25	2	c.op.	op.c	oopbc
City (Bunhill Row)	*	*	4·9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	66		55	41	37	2	bcap	bce.ru	bc.
Camden Sq. (Brit. Rainfall)	74	60	4·8	56	40	36	6	bc.b	cp.	*
Hampstead (Reservoir) ...	*	62	4·4	52	37	30	7	c.op.	bcp.	bcr.bc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	5·9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	62	5·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
960 Joules	195 Milliwatts.	77 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	50	42	39	cq.b	q.cp	q.cph	*
Darwen to 9 p.m.	5	44	38	35	bcor.u	ou.br	or.u	0·2
Manchester ,,	0·3	49	43	*	o.oq	oq.c	c.bcpo	1·2
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	56	43	35	c.b	oop.	bcp.o	*

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

...14th & 15th April 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·59 / 4·57	11·33 / 11·33	6·47 / 6·48
Greenwich	5·9 / 5·7	12·0 / 12·0	6·52 / 6·53
Wick	3·6 / 3·3	11·13 / 11·12	7·20 / 7·22
Valencia	5·49 / 5·47	12·41 / 12·41	7·34 / 7·35

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 50° in most districts. Showers fell very generally, but the rain measurements were slight. Bright sunshine was abundant in many parts of the Kingdom, but locally there was very little.

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

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

‡ The barometric change is expressed in half-millibars

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 1916. No. 106. Saturday, 15th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather	Sea 0-6.	PAST 24 HOURS. Rain-fall Mill'metres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sun's rac for Yesterday
			°F					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	995·0	43	-	0	c	1003·2	+1	41	+1	NE	3	-	o	2	1	47	37	bc	bc	ep	*
	Deerness (Orkney)	995·9	36	WNW	7	rq	1006·8	*	40	+3	NW	6	NW	cq	5	2	41	34	opq	opqr	cpq	0·0
	Stornoway ...	1001·2	42	NW	5	bcphq	1013·6	+7	34	+2	NW	4	-	bc	3	4	45	35	cprsq	bcphq	bcpq	3·1
	Castlebay (Barra Isd.)	1005·6	42	WNW	5	ofp	1015·6	+5	42	+5	NW	3	NW	bchp	4	2	45	34	rsh.bc	bc.op	o.bchb	7·6
	Glasgow ...	1004·4	41	W	4	b	1013·4	+6	37	+1	W	2	-	bq	*	1	45	34	b.rhsp	brhpb	b.rspq	9·0
	Eskdalemuir ...	1004·7	36	WNW	6	bcspq	1013·0	+6	36	-1	NW	5	-	b	*	5	43	33	ps.hqbc	spq.bc	b	8·1
	Malin Head ...	1007·4	40	NW	6	bcq	1015·9	+5	43	+2	NNW	5	NW	bcq	6	3	43	37	bcqph	bcqp	bcq	8·4
	Blacksod Point	1013·0	45	NW	7	bc	1020·8	+3	43	+4	NW	4	NW	bc	3	2	46	38	bcqp	bcqp	bcp.bc	*
	Valencia ...	1019·3	47	NW	5	bc	1024·0	+1	46	+2	W	3	NW	c	3	2	48	42	bch	b.bcp	cp.c	9·0
	Roche's Point	1017·5	48	WNW	4	bc	1023·8	*	44	+2	WNW	2	NW	bc	2	1	51	42	cpq.bc	cpq.bc	b.bc	*
	Birr Castle ...	1014·9	43	NW	3	c	1021·1	*	41	+1	W	2	-	c	*	1	51	37	cph	cp.r	cp.r	10·0
	Donaghadee ...	1008·6	40	NW	5	bqpb	1016·4	+6	38	0	NW	4	NW	bcqp	4	4	45	36	cmpq	bcqph	bcqph	*
	Liverpool (Bidston)	1009·1	41	W	4	bc	1015·0	+4	41	+1	W	6	W	oq	5	1	46	40	bq	bcpq	cq	9·1
	Holyhead ...	1011·2	45	WNW	6	bcq	1017·6	+3	42	+1	WNW	6	NW	bcq	6	0·4	49	41	b.bc.c.o	o.cp.bc	b.bc.cb	10·7
	Pembroke (St. Ann's)	1014·3	46	WNW	5	cq.p	1020·6	+2	45	+2	NW	4	NW	bcq	5	0·1	47	43	bcq.cq	bcqp	bcq	8·3
	Scilly (St. Mary's)																					
	Falmouth ...	1017·4	47	WNW	4	b	1022·1	+2	45	+4	NW	5	NW	b	*	-	52	40	bcq	bcq.bq	bq	11·1
	Jersey (St. Aubin)	1016·5	50	W	5	b	1020·9	*	47	+2	WNW	4	NW	b	3	0·1	53	43	b	b.bc.b	b	11·3
	Portland Bill ...	1013·1	48	WNW	5	b	1018·0	+3	45	0	WNW	6	NW	bc	4	0·2	51	42	bc.cp	bc	bc.b	*
	Dungeness ...	1009·1	46	W	5	bcq	1014·0	+3	43	+1	WSW	5	W	bc	4	1	53	37	cpsq	cq	bc.bbc	*
	Dover	1010·0	41	NW	1	r	1013·6	+2	43	0	NW	4	NW	bc	4	3	52	37	c.bc	bc.tbr	c.b.bc	6·5
	Wick	997·1	39	NW	4	c	1007·4	+5	40	+1	NW	4	NW	c	3	2	46	36	cqp	cqrhp	cmqpc	*
	Nairn	1001·2	41	W	2	bc	1011·4	*	38	-2	W	2	-	cq	2	2	48	34	p.bcv	hpq.c	p.c	9·3
	Aberdeen ...	999·1	42	W	4	b	1009·2	+6	41	+1	WNW	6	W	b	3	-	49	38	o.cq	c.bcq	bcq	5·5
	Leith	1002·5	44	NW	2	bc	1011·9	+3	37	-1	W	1	W	b	2	-	52	34	b	b	bc.b	*
	Tynemouth ...	1002·2	44	NW	4	bcmq	1010·4	+4	37	-3	NNW	4	-	bmq	3	-	49	34	bcq	bcmq	bcmq	*
	Spurn Head ...	1005·0	44	WNW	6	cq	1009·9	+2	39	-2	NW	7	-	bcq	4	-	48	38	bcq	cq	bcq	6·7
	Yarmouth ...	1006·6	44	WNW	3	bc	1010·9	+3	39	-3	NW	4	N	bcq	3	1	51	35	bcqps	bcqps	bc.b	6·6
	Clacton-on-Sea	1008·4	43	WNW	3	bc	1012·7	+3	40	-2	WNW	4	NW	bc	3	1	51	37	c.bc.c	cqrht	c.bc	6·6
	Nottingham ...	1008·0	40	W	5	b	1013·6	*	38	-3	W	4	W	bp	*	1	50	35	c.bc	bcp.b	bc.cp	9·1
	Benson (Oxon.) ...	1010·4	45	WNW	4	bc	1015·7	+3	42	0	WNW	4	-	b	*	0·1	52	37	bc	bc	b	*
	Sth Farnborough	1010·3	48	WNW	4	bc	1015·5	+3	42	0	WNW	3	-	bc	*	Trace	52	35	b.bcp	crp.bc	pc.bbc	9·7
	London (Kew Obsy.)	1010·2	50	WNW	4	bc	1015·2	+3	48	+1	WNW	4	-	cv	*	-	52	39	b.bcbqq	cpq.bcv	bc.oqbbc	9·9
NORTHERN EUROPE.	Spitsbergen ...														*	*						
	Vardö														*	*						
	Bodö														*							
	Christiansund														*							
	Skudesnaes ..														*							
	Færder (X Tania Fjord)														*							
	The Scaw (Skagen)	994·0	39	S	1	r	1000·7	+4	39	-2	SSW	2	-	c	2	3	46	39				
	Blaavands Huk	998·6	41	W	4	c	1002·6	+2	41	0	SW	3	-	c	3	Trace	43	36				
	Haparanda ..														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1004·6	45	W	4	b	1006·9	+2	43	-2	NW	5	-	c	4	1	46	39				
	C. Gris Nez ...	1009·5	43	WSW	7	o	1013·6	+1	41	-2	WNW	6	*	bc	5	4	48	41				
	La Hève	1014·6	43	NW	6	bc	1018·0	*	45	+2	NW	5	*	c	4	-	46	43				
	Brest (St. Mathieu)	1021·6	49	NW	5	c	1023·8	+1	46	0	NW	5	*	bc	4	1	50	45				
	Rochefort (Ile d'Aix)	1021·4	50	WNW	6	bc	1024·3	+1	48	-1	NW	5	*	c	*	2	54	46				
	Biarritz	1024·8	52	NW	4	c	1025·9	0	48	-3	NNW	4	*	r	5	3	55	45				
	Paris	1013·9	48	W	3	bc	1017·0	0	43	0	W	3	NW	c	*	-	55	39				
	Belfort	1014·3	37	W	6	c	1017·3	*	36	-3	WSW	6	*	c	*	6	44	32				
	Lyons	1017·7	41	NW	3	bc	1021·2	*	41	-2	NW	2	*	o	*	2	52	36				
	Nice	1010·3	50	W	6	b	1010·6	+2	54	+2	NE	4	*	b	3	-	63	50				
	Perpignan ..														*							
	Sanguinaire ...	*	59	NW	6	m	*	*	54	+2	NW	6	*	o	6	-	66	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1027·9	54	NNE	5	b	1030·3	+2	50	0	S	4	-	b	2	-	55	43				
	Madrid (8 a.m.)														*							
	Lisbon (7 a.m.)																					
	Gibraltar	1019·6	60	NW	5	b	1020·6	*	59	+1	SE	3	*	m	0	-	68	55				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·9	+3	57	-4	NNW	5	-	c	4	-	68	55				
	Azores (Horta, 8 a.m.)	1025·1	*	SSE	5	c							*									
	Madeira (Funchal)	1021·9	61	NE	2	o	1023·1	+1	57	+3	NE	2	N	c	2	-	64	54				
	YESTERDAY'S REPORTS		13th ..., 8 P.M. G.M.T.						14th ....., 7 A.M. G.M.T.													
ITALY.	Venice	1001·9	57	SE	2	o	996·2	0	54	+4	NE	2	*	tzr	3	23	*	*				
	Turin	1000·1	63	SW	6	o	1002·0	-4	55	+5	-	0	*	b	*	-	*	*				
	Viesti	1005·2	59	SE	2	b	1002·4	-3	61	+2	-	0	*	b	1	-	*	*				
	Pesaro	1002·6	59	S	2	b	996·6	-2	59	+9	SW	2	*	o	2	-	*	*				
	Leghorn	1005·6	63	SW	4	o	1000·3	-3	59	0	W	4	*	b	5	-	*	*				
	Rome	1007·6	55	S	2	b	1002·9	-2	61	+6	S	2	*	b	*	-	*	*				
	Brindisi	1006·2	59	NNE	2	c	1003·6	0	57	0	W	2	*	b	2	-	*	*				
	Cagliari	1010·6	70	NW	6	b	1009·2	0	61	0	NW	6	*	b	4	-	*	*				
	Palermo	1011·7	57	WSW	2	b	1010·6	0	68	+9	S	4	*	b	2	-	*	*				

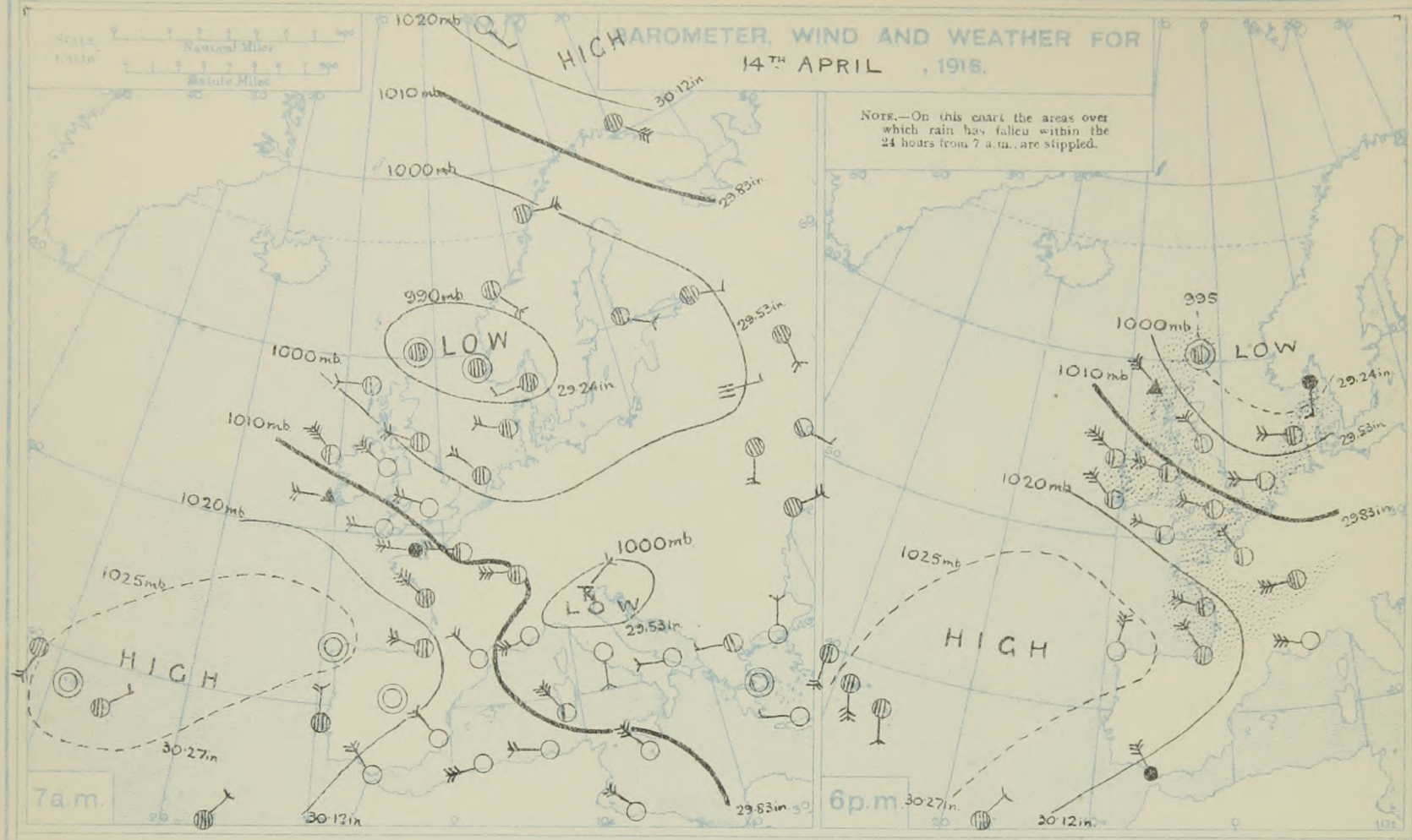
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.9 a.m.
Wind at
4000 ft. - NW by N 43 m.p.h.
3000 ft. - NW 35 m.p.h.
2000 ft. - NW 40 m.p.h.
1000 ft. - WNW 20 m.p.h.
Surface - WNW 12 m.p.h.

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir :- 14th
15 hrs. Squall WNW 8.
Ext. Gust 24 mps.
Aberdeen :- 15th.
3 hrs. Gusts WNW 18 mps.
Spurn Head :- 14th
16 hrs. Gust. WNW 21 mps.
Nottingham :- 14th
17 hrs. W.8.
London (Kew Obsy) 14th.
12.48 - Gust WNW 19 mps.

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

BAROMETER, WIND AND WEATHER FOR 14TH APRIL, 1916.



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

FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

Wind mainly North-Westerly, fresh or strong to moderate; variable sky, some showers of rain, hail or sleet; temperature remaining low.

North-Westerly winds, fresh or strong; sea rather rough; mostly fair, some local showers.

FURTHER OUTLOOK.

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

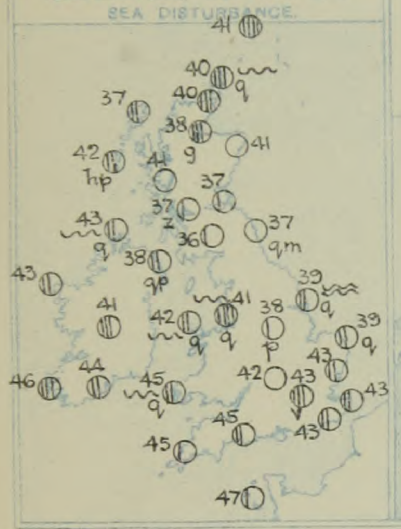
NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 15TH APRIL, 1916.

GENERAL INFERENCE .

There are still no indications of any important modification in the general distribution of pressure.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

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

1005mb. 1000mb. Barometer 1010mb. 1015mb. 1020mb. 1025mb. 1030mb. 40° 45° 50° 29.53in. 29.68in. 29.83in. 29.97in. 30.12in. 30.27in. 30.42in. LOW LOW HIGH rising generally

Issue No. 19.868

DAILY WEATHER REPORT.

Saturday, 15th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	13th at 9 P.M. Local Time. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	14th at 7 A.M. Local Time. 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.	Rain. Millimetres.	Temp. Max	Temp. Min
Archangel	1012·7	36	NE	3	bc	-	-	-	-	-	-	*	-	*	-	*	
Vilikieluki	"	"	"	"	"	"	"	"	"	"	"	*	"	*	"	*	*
Gorki	.	.	.	.	.	996·8	0	41	+4	E	1	8	f	*	.	*	37
[illegible]	997·1	36	ESE	2	0	996·2	0	36	+2	ESE	2	8	c	0	"	*	"
Riga	995·5	41	ESE	1	0	994·9	+1	39	+2	-	0	*	0	0	-	*	*
Petrograd	1001·7	41	E	4	0	999·3	0	34	+2	ESE	1	-	0	*	-	50	32
Moscow	1002·0	34	SSE	2	0	1008·8	+1	36	0	S	3	*	0	*	7	*	34
Kiev	1001·0	44	W	3	b	1001·6	+1	44	+7	SSW	3	*	0	*	2	*	37
Kharkov	1007·8	45	E	1	c	1008·6	0	39	+2	SE	1	*	bc	*	-	*	34
Kishinev	1003·7	50	SSW	4	0	1003·7	0	43	+2	S	2	*	b	*	1	*	41
Elisabetgrad ...	1005·5	45	S	3	c	1005·2	0	41	+5	SSE	2	*	0	*	-	*	36
Nicolaiev	1005·9	45	SSW	2	b	1005·0	*	43	+2	E	3	*	0	0	-	*	37
Odessa	1006·7	46	SSW	3	bc	1004·7	0	46	+1	SSW	3	*	0	*	-	*	46

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	44	37	p	bc	7·7
	Banff	-	46	36	bc	bc.	3·8
	St. Andrews	-	50	33	*	*	10·0
Eng. N.E.	Harrogate	1	46	35	bp.b	bp.b.bc	10·7
	Skegness	-	51	39	bcu.o	o.bc.o	9·1
Eng. N.W.	Morecambe	-	47	38	bc	bc	8·0
	Blackpool						
	Southport	2	47	39	b.bc.c	c.o.p.c.b	9·3
Midlands.	Buxton	4	43	34	bc	bc	?
	Leamington Spa	-	51	36	bc	bc	10·5
	Malvern						
	Ross-on-Wye	0·2	54	39	bcb	bcp	11·7
Wales.	Rhyl	4	47	39	s.bc	chp	9·0
	Colwyn Bay	5	47	39	bc	bc	9·0
	Llandudno	5	47	40	b	bp.b	9·2
	Aberystwyth	1	47	42	r.o.c	bc o	4·5
	Tenby	1	51	40	b	bc.op	10·3
England. E.	Lowestoft	1	55	40	bcc.op	c.o.t.p	4·6
	Felixstowe	0·2	61	41	bc	bc	7·4
	Walton-on-Naze	1	?	?	bc.	bc.hc.bc	7·2
	Southend-on-Sea	1	58	40	bc.c.op	bc.c.op	7·4
England. S.E.	Margate	1	45	41	c.bc.b.p.	bc.c.bcp	5·3
	Ramsgate	3	51	38	c	bc.p	6·3
	Hastings	1	63	39	o.p.bc.b	bc.b	9·9
	Eastbourne	"	52	41	bc.q	bc.q	9·5
	Seaford	0·1	52	41	bc	bc.p	9·3
	Brighton						
	Worthing	1	55	41	bc	bc.p.bc	9·8
	Littlehampton	1	51	42	b	b	10·3
	Bognor	1	53	40	bc	bc.p.	10·7
	Southsea						
	Bournemouth	-	55	41	b.c	bc	11·5
England. S.W.	Weymouth	-	54	41	c.b	b.bc	11·0
	Torquay	1	58	42	bc.c.bc	bc	11·8
	Paignton	1	56	40	bc.p.h	bc.p.h	11·7
	Penzance	1	53	43	bc	bc.	11·0
	Newquay	1	49	42	b.bc	b.b.c	9·8
	Ilfracombe	0·2	49	40	bc.b	b.b.c.c	9·0
	Weston-super-Mare ...	0·3	49	41	b.b.c.b	b.b.c.p.c	9·0
	Bude	-	52	43	c.b.c	c.b.c	10·4

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.) ...	56	63	9·3	54	38	31	1	o.q.r.ts	o	o.o.p.o
City (Bunhill Row)	*	*	9·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	53	65	10·5	55	38	33	2	bcu.h.r	b.bcu	u
Camden Sq. (Brit. Rainfall)	49	63	9·2	54	37	33	1	bc	o.p.r.c	*
Hampstead (Reservoir) ...	*	63	9·9	51	33	33	1	bc	bc.c	c.b.c.x.o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	9·9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	64	10·9							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1587 Joules	32·1 Milliwatts.	77 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2	49	36	33	bq.c	cq.p.h	q.p.h.b	*
Darwen to 9 p.m.	3	43	34	32	o.r.bc.u	c.b	bc.h.r	6·0
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	55	41	35	c.o.	cq.p.h	c.p.h.r.s.	*

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

15th & 16th April 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.57 / 4.55	11.53 / 11.53	6.48 / 6.50
Greenwich	5.7 / 5.5	12.0 / 12.0	6.53 / 6.55
Wick	5.3 / 5.1	12.12 / 12.12	7.22 / 7.24
Valencia			

NOTES ON YESTERDAY'S WEATHER.

Showers of rain, hail or sleet were experienced generally, and thunder occurred locally in England. Temperature remained below 50° over a large area, but sunshine was abundant except in the extreme north.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 107 — Sunday, 16th April

	STATIONS.	YESTERDAY EVENING. Baron. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1012·4	42	NW	3	c	1013·5	−1	42	+1	S	3	–	o	2	4	47	35	op	a.ep	bc.c.o.	*
	Deerness (Orkney)	1015·6	41	NW	4	bc	1011·5	*	42	+2	SSE	5	–	o	4	–	45	37	c.bcq	bc	bc.c.o	8·6
	Stornoway ...	1017·3	46	W	4	bcq	1006·4	−6	42	+6	S	6	–	rq	5	3	49	37	bcpq	bcq	rq.rpq	10·0
	Castlebay (Barraisd.)	1018·8	45	SW	3	o	1007·1	−5	45	+3	S	4	–	d	4	1	48	39	bch.bc	bc.c	rpdm	10·3
	Glasgow ...	1019·2	45	W	2	c	1014·2	−4	39	+2	SE	2	–	rgm	*	1	50	36	b	b.bc	bc.c.ep	11·4
	Eskdalemuir ...	1019·2	43	WNW	3	bc	1016·9	−3	32	−4	–	o	–	o	*	1	50	25	b.bc	bc.c.bc	bc.c.cs	11·5
	Malin Head ...	1020·5	45	WNW	3	bc	1009·4	−2	46	+8	SSW	3	–	omr	3	5	47	41	bc	bc	omr	8·9
	Blacksod Point	1020·1	45	SW	4	cmd	1011·7	+2	48	+5	W	5	–	rpr	3	13	49	42	bc	cm	omr.fr	*
	Valencia ...	1022·8	47	S	3	cmd	1018·7	−1	50	+4	SW	4	–	cmd	4	4	52	46	bc.b.bc	c.o.cdm	cd.r.o	4·6
	Roche's Point	1024·5	49	SW	3	o	1019·1	*	50	+6	SW	3	–	o	3	6	54	44	c.bc	c.o	cd.om	*
	Birr Castle ...	1022·2	50	W	1	c	1014·7	*	50	+9	SW	1	–	r	*	7	52	41	c	c	c.or	4·2
	Donaghadee ...	1021·2	45	NNE	3	bcv	1012·7	−4	43	+5	SSW	3	–	omr	3	7	47	38	bcqpm	bcv	om.omr	*
	Liverpool (Bidston)	1021·3	43	W	4	o	1017·8	−2	40	−1	SE	2	–	r	2	1	48	39	b	bc	b.or	10·0
	Holyhead ...	1022·2	47	WSW	4	cq	1005·1	−5	45	+3	SSW	6	–	cfd	5	4	51	42	bc	bc.c.o	bc.c.or	9·8
	Pembroke (St. Ann's)	1023·9	46	WNW	3	c	1020·3	−2	46	+1	WSW	5	–	or	4	3	49	43	bcq.cq	c	or	5·7
	Scilly (St. Mary's)																					
	Falmouth ...	1024·7	49	NW	3	b	1021·5	−1	47	+2	SW	3	–	d	*	1	52	44	bcq	bc.c.b	c.or	10·7
	Jersey (St. Aubin)	1023·5	50	NW	4	bc	1023·5	*	48	−4	NW	2	–	o	1	Trace	52	37	bc.rp.c	c.bc.b	bc.b.o	7·7
	Portland Bill ...	1022·0	48	NW	5	c	1023·0	0	45	0	SSW	2	–	o	3	–	51	42	bc.c	c.bc	bc.c.o	*
	Dungeness ...	1019·0	46	NW	3	bcq	1021·6	+1	39	−4	NW	2	NW	bc	2	–	52	33	bcq	bcq	bc	*
	Dover	1019·6	44	N	2	b	1021·5	0	42	−1	NW	3	N	b	2	0·2	51	35	bc	bc	bc.c.b	11·0
	Wick	1016·5	43	NW	2	bc	1011·6	−4	41	+1	SSE	3	–	c	3	–	46	33	rp.bcq	bcq.bc	bc.cm.	*
	Nairn	1017·6	47	W	2	bc	1011·2	*	41	+3	–	c	–	cd	1	0·3	49	34	cq.c	c.bc	bcp	6·4
	Aberdeen ...	1017·1	45	NW	4	b	1014·6	−2	41	0	S	2	–	o	2	–	51	34	bcq	bc.bq	b.o	11·8
	Leith	1018·2	46	NW	1	c	1015·1	−2	40	+3	SSW	2	–	o	2	1	50	37	b	b	c.bcp.o	*
	Tynemouth ...	1017·7	47	N	3	bc	1017·5	−1	39	+2	W	1	–	bm	2	–	49	35	bc	bcq	bcm	*
	Spurn Head ...	1017·1	45	NNE	6	bc	1020·5	0	39	0	WNW	1	–	f	5	–	47	36	bcq	bcq	bcq	5·1
	Yarmouth ...	1017·9	45	NNE	6	bc	1020·1	0	36	−3	NW	2	–	bc	2	–	48	38	bcq	bcq	bc	11·4
	Clacton-on-Sea	1018·7	48	NNW	4	b	1021·5	0	38	−2	WNW	2	–	bc	1	–	51	34	bc	bc.b	b.bc.c	11·6
	Nottingham ...	1019·7	47	NW	4	bc	1020·0	*	38	0	SSW	1	S	0	*	–	52	34	bc	cp	bc.b	9·7
	Benson (Oxon.) ...	1020·5	47	NW	4	b	1022·4	0	35	−7	SW	2	–	o	*	0·1	50	26	bc	bc	bc.c	*
	Sth Farnborough	1020·0	48	WNW	3	bc	1022·1	0	36	−6	WSW	1	–	o	*	–	52	29	bcph	p.bc	c.b.o	9·1
	London (Kew Obsy.)	1020·1	49	NNW	3	b	1022·4	0	37	−6	SW	1	–	cm	*	–	51	34	c+rb8.mybc.bcq	c.bc+c.nb.cmx.cm		8·5
NORTHERN EUROPE.	Spitsbergen ...	1024·4	14	NW	2	o	1023·8	0	18	+11	NW	1	*	o	*	*	18	5				
	Vardö	1023·9	27	SE	5	o	1027·9	+1	25	−2	ENE	6	–	c	3	*	28	23				
	Bodö	1013·6	37	E	2	c	1015·5	+1	39	−2	E	3	–	c	2	–	43	34				
	Christiansund	1009·6	41	—	0	b	1013·6	+1	41	+2	—	0	–	c	3	–	45	36				
	Skudesnaes ..	1011·4	43	N	2	b	1014·9	0	39	−2	N	2	–	c	1	–	50	37				
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)	1009·0	39	SE	2	b	1015·5	+3	41	+2	ENE	1	–	b	1	8	41	36				
	Blaavands Huk	1007·3	41	NW	2	o	1014·4	+5	37	−4	E	1	–	o	2	Trace	45	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1013·9	43	NW	6	c	1018·1	+3	43	0	NW	4	–	c	3	1	45	43				
	C. Gris Nez ...	1017·7	46	N	2	b	1021·6	+1	43	+2	WNW	2	*	b	2	–	50	39				
	La Hève	1019·9	46	NW	5	c	1023·0	*	44	−1	N	2	*	c	3	–	50	41				
	Brest (St. Mathieu)	1026·0	50	WNW	4	o	1024·4	0	47	+1	S	3	*	f	2	–	52	46				
	Rochefort (Ile d'Aix)	1025·0	50	NW	6	c	1025·6	0	47	−1	N	1	*	o	*	–	52	41				
	Biarritz	1028·0	53	NW	4	c	1026·1	0	48	0	ENE	2	*	f	2	7	54	48				
	Paris	1019·4	46	NNW	3	bc	1023·4	+1	34	−9	–	0	–	c	*	1	52	30				
	Belfort	1018·3	34	W	4	o	1021·6	*	34	−2	W	4	*	o	*	3	38	32				
	Lyons	1020·6	37	N	4	o	1023·8	*	37	−4	NNW	4	*	bc	*	1	51	34				
	Nice	1009·3	52	W	4	b	1010·4	+5	51	−3	N	5	*	b	3	–	63	43				
	Perpignan ...	1020·0	52	NW	4	b	1022·7	+2	48		NW	3	NW	o	*	1	59	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030·4	SE	NNE	6	b	1030·6	+2	48	−2	SE	1	–	f	2	–	55	43				
	Madrid (8 a.m.)	1021·9	54	—	0	b	1026·1	+1	48	+2	—	0	–	b	*	–	66	37				
	Lisbon (7 a.m.)	1020·4	68	NNW	4	b	1021·9	+2	59	+4	NNE	4	–	b	5	–	73	57				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1008·3	0	55	−2	NW	6	–	c	6	–	61	52				
	Azores (Horta, 8 a.m.)	1027·9	*	S	3	bc	1029·5	+2	57	−2	—	0	*	c	2	–	68	55				
	Madeira (Funchal)	1022·9	63	NE	3	o	1022·9	0	55	−2	NE	2	NW	c	2	–	64	55				
YESTERDAY'S REPORTS		14th ..., 8 P.M. G.M.T.					15th April, ..., 7 A.M. G.M.T.															
ITALY.	Venice	1005·0	45	W	2	c	1006·0	+1	43	−11	N	2	*	b	3	20	*	*				
	Turin	1009·9	50	W	9	b	1010·7	0	52	−3	W	6	*	b	*	–	*	*				
	Viesti	1005·6	54	NW	4	o	1005·6	+6	50	−11	NW	4	*	o	5	13	*	*				
	Pesaro	1006·6	46	N	4	o	1005·9	+1	52	−7	SW	4	*	b	6	26	*	*				
	Leghorn	1006·6	61	NW	4	b	1009·4	+1	57	−2	–	o	*	b	5	–	*	*				
	Rome	1006·1	54	N	4	b	1009·6	+2	48	−13	N	2	*	b	*	–	*	*				
	Brindisi	1000·2	48	SW	6	bc	1003·4	+1	50	−7	NW	6	*	bc	7	–	*	*				
	Cagliari	1011·9	64	NW	6	b	1013·2	0	57	−4	NW	4	*	b	4	–	*	*				
	Palermo	1010·2	64	W	4	b	1013·3	+1	57	−11	WNW	4	*	c	5	–	*	*				

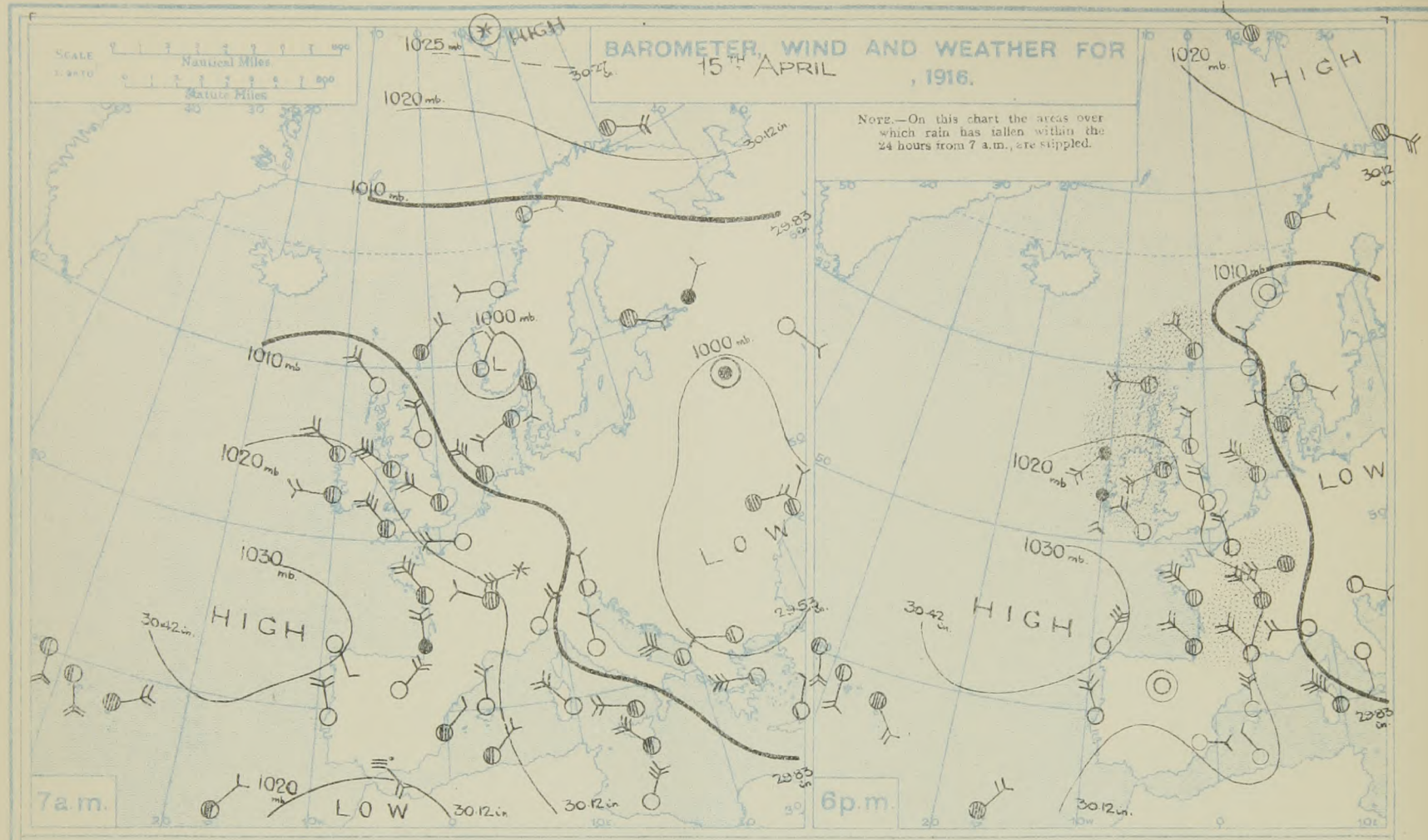
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands.

Dover
15th 10a.m. Ex. NW 8

London (Kew Obsy.)
15th 1.45p.m. Sq. NW 21 mps.

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b	Southerly and South-Westerly winds, light to fresh; much cloud, rain at times; milder.
1	
2 a, b	Same as No. 5.
3	
4 a, b	Southerly and South-Westerly winds, light or moderate; becoming showery or rainy; temperature rising.
5	Wind backing to West or South-West, light to moderate; fair, then some rain; warmer
6 a, b	Same as Nos. 0 and 1.
7 a, b	Wind between South and West, fresh or strong at times, rainy or showery, mist or fog locally on coast; temperature rising.
8 a, b	
9 a, b	
10 a, b	
Western Channel and Bay 11	South-Westerly to Westerly winds, moderate or fresh; sea moderate to rather rough; rain at times, some mist or fog.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 16TH APRIL, 1916.

GENERAL INFERENCE.

The depression off the north-west coasts seems likely to move north-north-eastward and to extend over the whole Kingdom.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

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

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

1025 mb. HIGH 30·27 in. 1020 mb. Barometer rising 30·12 in. slightly 1015 mb. 40° 1010 mb. LOW 1010 mb. Barometer falling 1015 mb. Barometer 1020 mb. 1025 mb. HIGH 50° 1030 mb. 30·42 in. 30·27 in. 30·12 in. 1010 mb. 1005 mb. LOW 29·97 in. 29·83 in.

Issue No. 19,869

DAILY WEATHER REPORT.

Sunday, 16th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	....16th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	....15th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Vilikieluki	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Gorki	998·7	45	-	0	r	996·8	0	41	0	E	1	*	f	*	2	*	37
Hango	1003·4	34	ESE	2	0	996·2	b	36	0	ESE	2	*	c	0	-	*	32
Riga	-	-	-	-	-	994·9	0	39	0	-	0	*	0	*	-	*	37
Petrograd	1001·0	36	NE	2	r	1003·8	+3	36	+2	NE	2	-	r	*	-	45	34
Moscow	1007·7	43	SSE	4	b	1007·7	+1	41	+5	SSE	2	*	b	*	-	*	36
Kiev	1003·3	46	SE	2	b	-	-	-	-	-	-	*	-	*	-	*	-
Kharkov	1004·3	54	E	1	b	999·5	?	48	+9	SSE	4	*	bc	*	-	*	39
Kishinev	1002·3	50	ESE	3	b	999·4	-3	45	+2	ESE	3	*	o	*	-	*	43
Elisabetgrad ...	1003·9	46	ESE	1	c	1001·9	-2	39	-2	S	1	*	bc	*	-	*	32
Nicolaiev	1003·3	48	-	0	b	999·5	*	43	0	NE	2	*	c	*	-	*	37
Odessa	-	-	-	-	-	999·9	-3	41	0	ENE	2	*	o	*	-	*	39

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	48	36	b	bc	11·0
	Banff	-	?	38	bcr.bc	bc	7·5
	St. Andrews				*	*	
Eng. N.E.	Harrogate	0·1	51	33	b	b.bc.c	9·9
	Skegness	-	48	35	b.bc	bc	9·8
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	1	48	39	c	bc	11·3
Midlands.	Buxton	5	46	32	bc	c.bc	?
	Leamington Spa	4	50	37	op.bc	bc	9·0
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	-	47	41	b.bc	b.bc	9·0
	Aberystwyth	-	47	42	o.c.b	bc.o	7·0
	Tenby	-	51	40	bc	bc.c	7·8

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft						
	Felixstowe	0·2	52	36	bc	bc.b	11·4
	Walton-on-Naze	-	?	?	b.bc.b	b.bc.b	11·0
	Southend-on-Sea	-	52	37	bc	bc.c.b	11·4
England. S.E.	Margate	-	50	40	bc.b	b	11·0
	Ramsgate	-	48	37	bc	bc	11·2
	Hastings	-	51	37	o.bc	bc	6·9
	Eastbourne	-	54	40	bc	bc	7·8
	Seaford	Trace	53	40	bcp	bcp	8·2
	Brighton	T	54	39	c.bc.b	b.bc.c	9·8
	Worthing	-	54	37	bc	bc	9·3
	Littlehampton	-	56	38	b	b	9·7
	Bognor	0·3	53	39	bc	bc	8·2
	Southsea						
	Bournemouth	0·3	55	38	bc	bc.c.o	8·2
England. S.W.	Weymouth						
	Torquay	-	53	42	bc	bc.c.o	10·2
	Paignton	-	55	40	bc	bc	10·3
	Penzance	0·3	54	44	bc	bc.c	10·0
	Newquay	*					
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	-	50	44	c.bcp	bcp	8·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	62	71	7·6	53	34	32	1	c.o	c.bc	c.o p.
City (Bunhill Row)	*	*	7·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	74	8·2	52	33	29	0·4	o p.o	r.m b c	u b
Camden Sq. (Brit. Rainfall)	48	65	7·8	53	33	29	1	c.bc	bc	*
Hampstead (Reservoir) ...	*	69	8·4	52	32	22	1	bc.	c. bc	bcp s,r
Richmond Park ...	*	*	7·3							
Kew. (See front page.)	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	54	71	7·4							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1302 Joules	263 Milliwatts.	73 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	51	38	35	bc	c	c	*
Darwen to 9 p.m.	3	49	33	31	our.b	bc	b c u	9·0
Manchester ,,	1	50	37	*	bc.o p	o.c b c	b.c b b c	7·1
Birmingham ,,	-	49	37	32	*	c	c	8·3
Oxford to 9 p.m.	*	51	38	30	b.bc	bc.c	c bc.b	*
Teignmouth to 9 ,,								
Plymouth ,,	-	52	42	*	bc v q	bc v q	c b v q	9·8
S. Kensington (Museum Grounds to 6 p.m.)	0·3	52	39	29	b v.b.o	b c q.	p v q. b c	*

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

16th & 17th April 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4.55 / 4.53	11.53 / 11.53	6.50 / 6.52
Greenwich	5.5 / 5.3	12.0 / 12.0	6.55 / 6.57
Wick	5.1 / 4.58	12.12 / 12.12	7.24 / 7.26
Valencia	6.45 / 5.43	12.41 / 12.41	7.37 / 7.39

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station, Date and Hour.	Height in Kilometres	Benson 10th. 12.26 h. Comp. to E.	Benson 10th. 12.26 h. Comp. to N.	Eskdalemuir 15th. 7 h. Comp. to E.	Eskdalemuir 15th. 7 h. Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
	2·5	+4	-12												
	2	+1	-7												
	1	+6	-6	+1	-7										
	0·5	+3	-2	+4	-5										
	0	+1	0	+8	-7										

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

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

*‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 108

Monday, 17th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1001·1	41	SSE	7	orq	9998	-1	44	+2	S	3	.	om	3	22	44	39	o	orq	orm	*
	Deerness (Orkney)	9949	42	SSE	7	rq	9878	*	43	+1	S	3	-	ome	4	7	44	42	or	orq	r.oe	0·0
	Stornoway ...	9919	50	SW	6	orq	9857	-4	44	+2	SW	3	-	o	3	14	50	41	orq	orq	or.opq	0·0
	Castlebay (Barra Isd.)	9953	48	W	4	op	9872	-4	45	0	WSW	3	-	r	4	14	49	43	dr	rop	opmr	0·0
	Glasgow ...	10006	49	SW	2	omr	9918	-5	44	+5	SW	3	-	omr	*	11	49	38	omr	omr	omrop	0·0
	Eskdalemuir ...	10033	45	S	4	rgm	9937	-4	43	+11	SW	4	-	o	*	16	47	32	odor	or	or.od	0·0
	Malin Head ...	9995	48	WSW	5	omq	9916	-2	45	-1	SW	6	-	omq	6	8	51	43	omrq	omrq	ompq	0·0
	Blacksod Point	10031	48	W	6	bcm	9964	-3	46	-2	WNW	7	NW	cmq	5	4	50	44	ofd	omd	omcmp	*
	Valencia ...	10100	51	SW	5	md	10077	0	49	-1	W	5	.	o	*	3	53	47	ordm	ordr	mdc.b	0·0
	Roche's Point	10125	51	SW	3	o	10072	*	49	-1	W	3	-	o	3	1	55	49	c.om	ogp	odmco	*
	Birr Castle ...	10072	52	SW	1	r	10014	*	47	-3	WSW	3	.	c	*	5	54	46	or.o	or	orc	0·0
	Donaghadee ...	10029	52	SW	4	omr	9959	-3	46	+3	W	4	.	ompq	3	3	55	43	og	omr	cg.omp	*
	Liverpool (Bidston)	10075	50	SW	2	r	9984	+2	46	+6	WSW	5	W	o	4	8	51	40	or	o.d.r	cg	0·0
	Holyhead ...	10066	49	SW	5	og	9997	-2	46	+1	WSW	5	W	opd	4	5	50	45	of.or	of.o.o.c	opopo	0·0
	Pembroke (St. Ann's)	10136	47	WSW	5	o	10050	-2	46	0	W	5	SE	cqp	4	12	51	45	f.r	f.o	ogp	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	10165	52	SW	5	oqz	10084	-2	47	0	WNW	5	.	c	*	3	56	46	d.o	odc.o	orq.cq	0·0
	Jersey (St. Aubin)	10190	49	WSW	4	fe	10049	*	49	+6	WSW	5	.	o	3	5	50	43	odp	orfe	fe.op	0·0
	Portland Bill ...	10145	48	WSW	5	om	10057	-4	48	+3	W	5	W	c	4	3	48	44	c.or	c.om	cmor	*
	Dungeness ...	10169	45	WSW	4	opq	10044	-4	48	+9	SW	6	.	oqp	6	4	51	38	bc	bc.op	orfq.p	*
	Dover	10166	44	SW	5	or	10026	-2	47	+5	SSW	4	SW	m	5	6	51	42	bc.b	b.bc.c.o	or.me	1·2
	Wick	9954	43	SSE	5	r	9884	-4	43	+2	SSW	2	.	o	2	9	46	40	c.m.o.m.r	omr	opg	*
	Nairn	9947	48	WSW	3	c	9882	*	47	+6	-	0	-	bc	2	2	50	39	og	o.d.r	cg	0·0
	Aberdeen ...	9999	43	S	4	omp	9916	-4	44	+3	SW	1	-	om	3	13	47	40	o	orm	omr	0·0
	Leith	10003	51	SW	2	o	9914	-3	46	+6	SW	2	-	o	3	7	51	37	o.d.o	o.r.o	o.r.c.o	*
	Tynemouth ...	10030	47	SSW	3	ogmq	9945	-3	47	+8	WSW	3	-	omq	3	3	49	38	omq	omggr	omr	*
	Spurn Head ...	10106	45	SSW	5	or	9974	-2	47	+8	NW	4	-	oq	5	6	51	39	f.c	c.o.r	roq	0·0
	Yarmouth ...	10136	46	S	3	o	9998	-6	49	+13	SW	2	.	omr	2	5	54	35	bc	bc.m.o	omr	0·9
	Clacton-on-Sea	10153	48	SSW	3	o	10015	-3	49	+9	WSW	3	W	c	2	3	50	37	bc.o.bc	bc.c.o.g	ogr.oc	2·0
	Nottingham ...	10098	47	SSW	4	o	9995	*	48	+10	W	3	W	o	*	5	50	38	op	or	opd	0·0
	Benson (Oxon.) ...	10126	44	S	4	o	10027	-1	50	+15	WSW	4	.	c	*	3	50	36	or	or	or	*
	Sth Farnborough	10140	44	S	4	o	10031	-1	49	-	W	4	-	o	*	4	50	35	b.c.o.r	r	r.m.o.r.o	0·1
	London (Kew Obsy.)	10143	45	SSW	4	or	10028	-2	49	+12	WSW	4	-	o	*	4	50	37	c.m.b.c.m.o.r	or	o.r.o.m.d.o	0·5
NORTHERN EUROPE.	Spitsbergen ...	10208	27	SE	4	c	10206	0	10	-8	SSE	8	*	o	*	*	27	10				
	Vardö	10275	25	SE	3	o	10271	0	21	-4	SE	5	-	o	3	*	28	21				
	Bodö	10166	41	E	2	b	10113	-1	39	0	SSW	5	-	b	2	-	45	37				
	Christiansund	10118	41	-	0	c	10037	-3	41	0	ENE	2	-	b	3	1	43	37				
	Skudesnaes ..	10113	41	SSE	4	b	10003	-4	41	+2	SE	8	-	o	5	-	43	37				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	10157	41	-	0	b	10093	-2	39	-2	SE	3	-	o	3	.	45	37				
	Blaavands Huk	10150	43	N	1	b	10070	-5	41	+11	ENE	4	-	o	3	-	45	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	10163	41	S	1	c	10013	-5	45	+2	S	5	-	o	2	3	46	37				
	C. Gris Nez ...	10162	44	SSW	4	o	10088	-5	47	+4	SW	6	*	f	5	7	48	43				
	La Hève	10169	46	W	3	r	10088	*	48	+4	WSW	5	*	r	5	3	52	44				
	Brest (St. Mathieu)	10206	50	W	3	m	10185	-1	50	+3	WNW	5	*	o	4	1	52	47				
	Rochefort (Ile d'Aix)	10229	50	NW	3	c	10175	0	52	+5	W	5	*	o	*	-	55	47				
	Biarritz	10237	52	NW	4	o	10223	0	53	+5	WSW	4	*	o	3	4	54	48				
	Paris	10195	52	W	1	o	10110	-4	48	+14	SSW	3	-	o	*	2	57	34				
	Belfort							*					*		*							
	Lyons	10226	41	NNW	2	bc	10200	*	38	+1	-	0	*	c	*	1	48	36				
	Nice												*									
	Perpignan ..	10195	55	NW	4	c	10187	-1	54	+6	NW	3	NW	o	*	2	59	48				
	Sanguinaire ...	*	55	NW	5	o	*	*	52	-	SE	3	*	b	4	-	63	? 43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	10283	57	N	4	b	10267	0	54	+6	SSW	1	-	f	1	?	57	48				
	Madrid (8 a.m.)	10203	63	N	3	b	10238	+1	48	0	-	0	-	b	*	-	63	41				
	Lisbon (7 a.m.)	10203	70	NNW	4	b	10212	+1	57	-2	N	1	-	b	2	-	73	55				
	Gibraltar	10200	59	E	3	b	10208	*	58	-	E	4	*	m	2	-	67	54				
	Malta (8 a.m.) ...	*	*	*	*	*	10093	+1	52	-3	W	4	-	o	2	3	59	48				
	Azores (Horta, 8 a.m.)	10300	*	-	0	0	10296	0	57	0	-	0	*	b	1	-	68	55				
	Madeira (Funchal)	10207	61	N	3	0	10195	0	57	+2	N	3	NW	o	3	-	63	55				
YESTERDAY'S REPORTS		....15th..., 8 P.M. G.M.T.					....April 16th...., 7 A.M. G.M.T.															
ITALY.	Venice	10066	52	ESE	2	b	10081	?	48	-6	-	0	*	bc	0	-	*	*				
	Turin	10100	48	SW	6	bc	10119	+1	50	-5	-	0	*	b	*	-	*	*				
	Viesti	10070	54	WSW	2	o	10046	0	50	-11	NW	2	*	c	4	2	*	*				
	Pesaro	10073	48	SW	3	b	10076	?	46	-13	-	0	*	o	5	.	*	*				
	Leghorn	10081	57	W	2	b	10070	0	50	-9	-	0	*	b	4	.	*	*				
	Rome	10076	52	S	2	b	10056	0	45	-16	N	2	*	o	*	.	*	*				
	Brindisi	10062	50	NW	3	bc	10047	0	50	-7	W	2	*	bc	2	-	*	*				
	Cagliari	10132	64	NW	5	c	10134	0	52	-9	NW	5	*	r	4	Trace	*	*				
	Palermo	10116	54	W	2	r	10067	0	50	-18	NW	2	*	o	5	-	*	*				

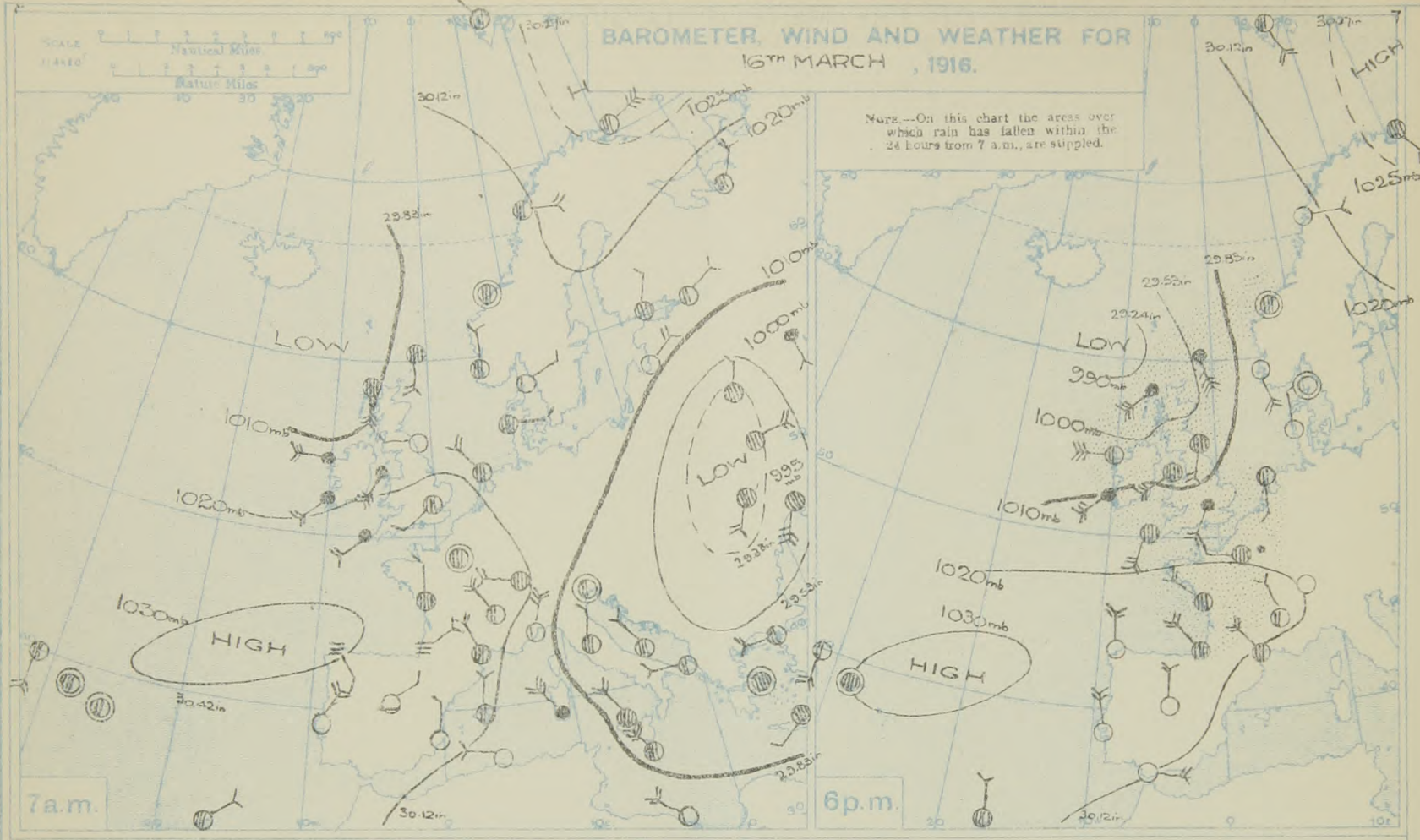
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.25 a.m.
1000 feet W. 30 m.p.h.
Surface W. 11 m.p.h.

GALES
Duration and Extreme Force in British Islands.

Lerwick 15th April
SSE 8. 9 p.m. to Midnight

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

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

STORM WARNINGS.

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

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

No Warnings Issued

0 a b, 1, 2 a b, 3, 4 a b, 5	Wind between South and West, moderate, fresh or strong at times; changeable, showery, fair intervals; temperature higher than of late.
6 a b, 7 a b, 8 a b, 9 a b, 10 a b	South-Westerly to Westerly or North-Westerly winds, fresh or strong to moderate; changeable, showery, some mist; moderate temperature.
Western Channel and Bay 11	South-Westerly and Westerly winds, moderate or fresh; sea moderate or rather rough; changeable, showery; some mist or fog.

FURTHER OUTLOOK.

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

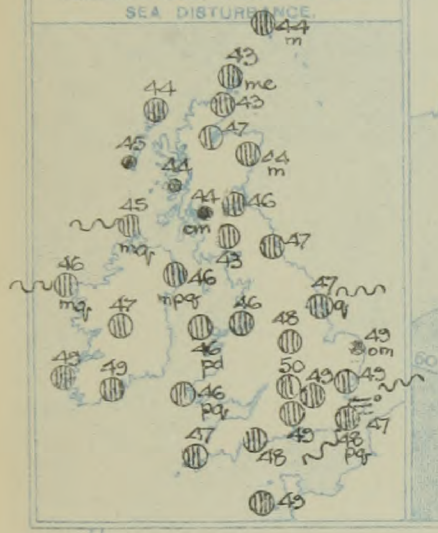
Millibars 1050 1040 1030 1020 1010 1000 990 980 970
Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., MONDAY, 17TH APRIL, 1916.

GENERAL INFERENCE.

The pressure distribution will continue favourable for the approach of further depressions from the Atlantic.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

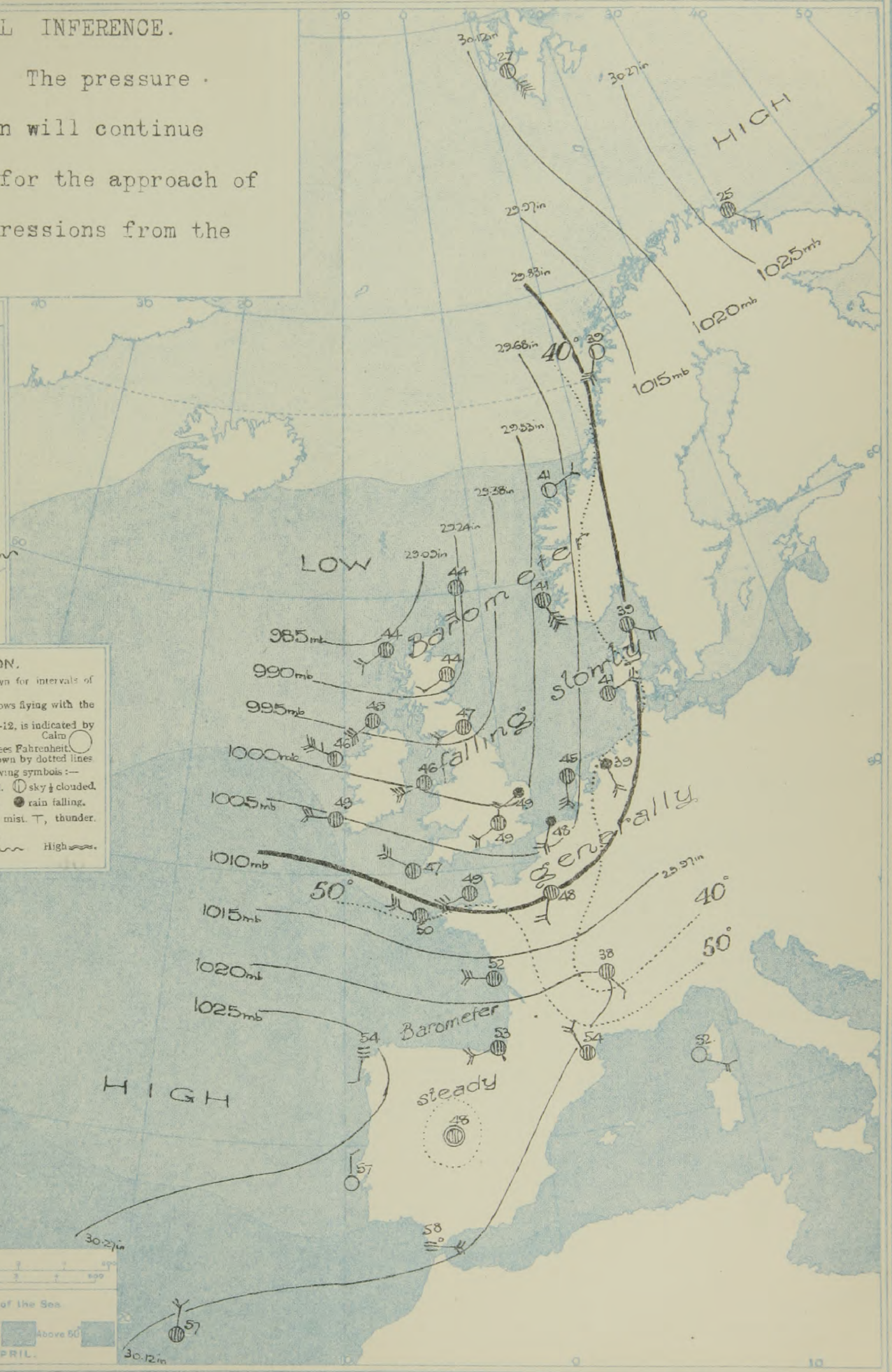
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ∿∿ High ≈≈.



Scale 1:9 – 60°
Nautical Miles 0 1 2 3 4 5 6 7 8 9 10
Statute Miles 0 1 2 3 4 5 6 7 8 9 10

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

Issue No. 1987o

DAILY WEATHER REPORT.

Monday, 17th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...15th... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	...16th... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Vilikieluki	1009·6	43	NNW	2	o	.	.	.	.	.	.	*	.	*	.	*	*
Gorki	1004·3	46	ENE	2	b	993·3	0	43	-2	NE	1	*	o	*	9	*	*
Hangö	1000·7	34	ESE	1	f	1016·3	+3	32	-2	—	o	*	o	*	1	*	*
Riga	1010·1	38	NE	4	f	1011·1	o	41	.	NE	3	*	b	*	–	*	*
Petrograd	1011·5	37	ENE	2	o	1015·3	+3	34	-2	NE	2	W	bc	*	6	45	30
Moscow	1009·3	37	SE	2	o	1010·9	0	43	o	S	2	*	r	*	4	*	43
Kiev	997·6	50	ENE	4	o	9937	+2	48	.	E	4	*	o	*	9	*	48
Kharkov	1003·7	52	E	3	o	1000·6	+3	46	.	ENE	3	*	r	*	4	*	*
Kishinev	992·3	49	SE	2	o	992·8	+2	44	-1	SSW	3	*	c	*	3	*	41
Elisabetgrad ...	996·0	54	ESE	2	bc	995·3	+1	45	+6	S	2	*	o	*	8	*	39
Nicolaiev	995·1	52	ESE	3	m	995·5	*	49	+6	SSW	5	*	o	o	2	*	41
Odessa	994·3	48	SSW	3	o	995·0	o	48	+7	?	3	*	o	*	–	*	46

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0·3	50	36	r	o	0 0
	Banff	4	48	32	bc.od	or q	0·6
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	47	34	o.c	od.	0·0
	Skegness	1	52	31	o.c	op.r	0 4
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	1	50	38	or	or.o	0·0
Midlands	Buxton	5	45	32	or	or	0·0
	Leamington Spa	3	47	33	od.r	od.r	0·0
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	4	53	35	r.p.c	c	0·0
	Colwyn Bay	5	54	41	cp	cp	0·0
	Llandudno	6	53	39	pr	cp	0·0
	Aberystwyth	4	?	42	r.or	r.o	0·0
	Tenby						
England. E.	Lowestoft						
	Felixstowe	–	51	33	bc	bc.o	5·2
	Walton-on-Naze	–	.	.	bcm.c.b	bc.c.or	3·4
	Southend-on-Sea	1	53	35	o	o.or	0·3
England, S.E.	Margate	.	?	39	c.bc	bc.c	2·8
	Ramsgate	–	50	34	3.bc	c.o	3·7
	Hastings	1	51	36	o.bc	c.or	1·7
	Eastbourne	1	51	38	bc	bc.c	2·0
	Seaford						
	Brighton						
	Worthing	2	50	34	bc.o	d	1·0
	Littlehampton	3	49	35	c.b.bc.o	d.r	1·3
	Bognor						
	Southsea						
	Bournemouth	3	48	34	od	od	0·0
England. S.W.	Weymouth						
	Torquay	4	53	39	or	o	0·0
	Paignton						
	Penzance						
	Newquay	1	51	47	grm	o	0·0
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	8	51	38	or	o	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	86	76	0·7	53	43	42	4	c.or	or	or.o
City (Bunhill Row)	*	*	0·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	74	0 4	54	44	44	3	bc.od	od	op.o
Camden Sq. (Brit. Rainfall)	–	71	0·8	54	44	42	4	–	–	*
Hampstead (Reservoir) ...	*	75	0·5	50	42	29	5	omd	cp	o
Richmond Park ...	*	*	0·5							
Kew. (See front page.)	*	*	0·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	–	70	0·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
804 Joules	16·1 Milliwatts.	46 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	6	56	45	42	c.or	or.c	c.o	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	51	36	25	b.bc.bcy	c.op.	op.or	*

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

17th & 18th April 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4.53 / 4.51	11.53 / 11.52	6.52 / 6.53
Greenwich	5.3 / 5.1	12.0 / 11.59	6.57 / 6.58
Wick	4.58 / 4.55	12.12 / 12.11	7.26 / 7.28
Valencia	5.43 / 5.41	12.41 / 12.40	7.39 / 7.40

NOTES ON YESTERDAY'S WEATHER.

Steady rain or showers fell in all districts - heavily in Scotland. Very little bright sunshine was recorded; at most Western and Northern stations there was none. Temperature reached its maximum during the evening or night in several parts of England.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 109. Tuesday 18th April

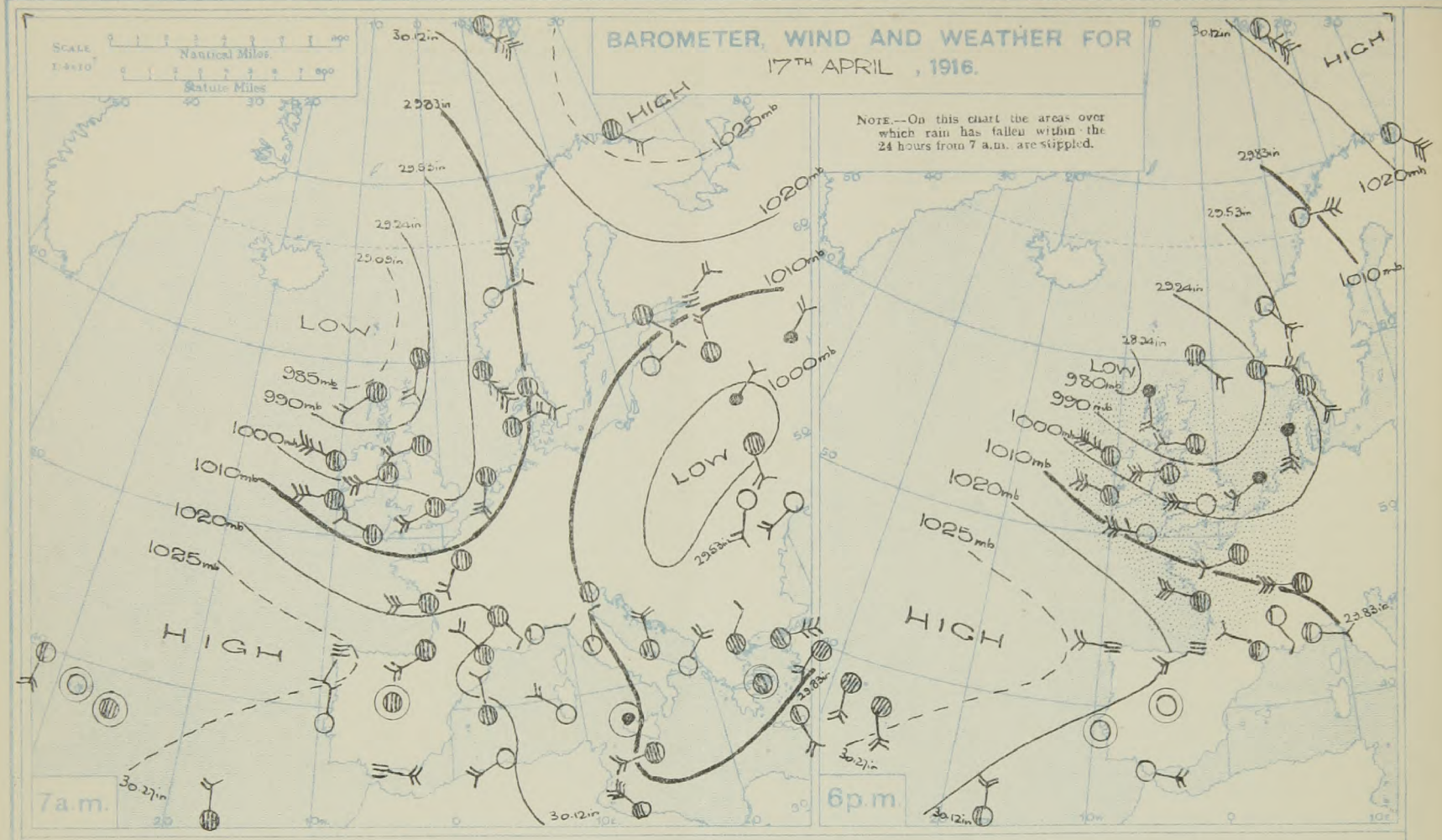
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	987.1	43	SE	3	om	990.6	+1	41	-3	ESE	7	-	omq	6	4	46	39	omp	omd.	oqp	*
	Deerness (Orkney)	984.1	45	E	3	bc	986.4	*	48	0	NE	3	.	od.	4	3	47	41	o.c.bc	bc	bc.c.od.	4.9
	Stornoway ...	982.0	46	S	3	or	989.1	0	45	+1	N	4	-	oq	4	11	51	43	c	c.or	ow pq	3.4
	Castlebay (Barra Isd.)	980.2	47	W	3	drn	991.3	+1	44	-1	NW	4	-	r	4	6	49	43	r.c.op	opd.rm	d.r.m.or	1.2
	Glasgow ...	984.2	45	WSW	3	omqr	987.5	+2	44	0	W	3	-	omq	*	9	48	41	omr.op	c.om.p	omp	1.5
	Eskdalemuir ...	985.7	44	WSW	4	oq	987.3	+5	43	0	NW	4	N	o	*	12	48	39	or.od	or op c	o.or	1.0
	Malin Head ...	985.5	44	SW	6	omrq	992.2	+2	44	-1	NNW	8	N	cmqp	8	13	47	40	omqp	omrq	cmqp	0.9
	Blacksod Point	996.5	47	NW	9	cqmp	1002.1	+2	44	-2	NNW	8	N	bcqp	6	3	48	40	cmp	cmqp	omqp	*
	Valencia ...	1005.3	49	WNW	6	c	1008.6	+1	45	-4	WNW	6	NW	cq	5	2	60	44	o.bcqp	bcqp	cq.cpq	2.7
	Roche's Point	1002.2	49	WNW	5	c	1002.8	*	45	-4	NW	7	NW	bc	5	1	53	44	o.cpq	cpq	bc.c	*
	Birr Castle ...	997.5	47	W	4	c	1001.1	*	42	-5	W	4	W	c	*	3	50	31	cqp	cqp	cqp	4.6
	Donaghadee ...	988.2	46	W	5	o.mrq	992.2	+5	45	-1	NW	4	NW	cp	4	4	50	43	ompq	omrq	omqp	*
	Liverpool (Bidston)	990.7	45	WSW	6	o	989.1	+6	43	-3	W	5	W	r	6	5	51	43	bcp	bcpq	oqr	2.4
	Holyhead ...	992.8	47	W	6	opq	992.7	+3	46	0	NW	7	NW	opqm	7	6	50	45	opcpq	cp opq	opqm	2.5
	Pembroke (St. Ann's)	1000.6	46	WNW	6	bcq	998.6	+1	44	-2	NW	6	NW	cq	6	2	52	44	bcqp	bcq	cqp	5.6
	Scilly (St. Mary's)																					
	Falmouth ...	1003.9	49	W	7	bqz	1002.2	-1	45	-2	WNW	8	.	bc	*	1	54	43	oq.cq	bcq bq	oqp	7.1
	Jersey (St. Aubin)	1005.7	50	WSW	6	oq	1002.2	*	47	-2	W	6	W	cqp	4	4	53	44	o.c	c.o.q	bc.cqp	0.9
	Portland Bill ...	1000.5	47	W	6	cqp	996.5	-1	47	-1	WNW	7	NW	cu	5	2	50	44	c	cqp	cqp	*
	Dungeness ...	996.3	47	SW	7	cq	990.7	-3	45	-3	W	6	-	rq	5	4	51	44	oq	o.bcqp	c.oqr	*
	Dover	995.9	45	W	3	bc	991.0	-3	45	-2	WSW	5	W	c	4	2	54	42	o.cp.bc	bcp c.o	bccp o	2.8
	Wick	983.6	44	ESE	2	bc	985.7	+2	41	-2	NE	2	NE	r	3	5	47	40	ogpc	bc	omqd	*
	Nairn	982.1	53	-	0	cu	986.2	*	45	-2	NNW	3	-	or	2	2	55	42	c.bcv	bc.c	cpq	5.7
	Aberdeen ...	983.1	47	-	0	c	984.9	+1	42	-2	NNW	3	-	r	2	6	52	41	omp	oc	cp.or	1.7
	Leith	983.4	51	WSW	2	c	985.9	+2	45	-1	W	1	-	o	2	1	53	42	od.o	o.bc.c	c.od.o	*
	Tynemouth ...	985.5	48	WNW	3	omq	985.1	+1	44	-3	NNW	3	-	om	3	1	50	40	omqd	omq	omp	*
	Spurn Head ...	989.2	47	WNW	6	o	989.1	-3	44	-3	NNW	5	-	or	5	3	51	42	cq	oqp	oq	0.8
	Yarmouth ...	991.8	45	WSW	3	bc	985.5	-4	43	-6	W	4	NW	cp	3	5	54	43	omr	omp.bc	bc.omr	0.2
	Clacton-on-Sea	991.4	46	W	4	c	988.5	-2	45	-4	W	4	W	o	3	4	54	44	cp	cp	c.bc.op	2.2
	Nottingham ...	991.4	47	W	4	c	986.1	*	46	-2	NW	6	NW	r	*	5	53	42	opc	cp	c.o.p	2.4
	Benson (Oxon.) ...	995.9	47	WSW	4	bc	991.3	-1	44	-6	W	5	-	o	*	1	53	42	c.o	p.bc	oqp	*
	Sth Farnborough	992.9	48	W	6	bc	991.7	-1	45	-4	W	5	-	o	*	0.4	55	44	bc.op o	p.bc	bc.o	5.8
	London (Kew Obsy.)	993.4	49	W	6	b	990.9	-2	48	-1	WSW	6	-	o	*	1	54	44	o	o.bv.bc.or.hq	bbc.ac.po	5.9
NORTHERN EUROPE.	Spitsbergen ...	1022.1	25	SSE	9	bc	1025.2	0	27	+3.5	S	1	*	o	*	*	28	-8				
	Vardö	1026.6	23	SS	4	o	1026.3	0	19	-2	SE	6	-	o	3	*	23	19				
	Bodö	1010.1	37	E	4	b	1008.3	-1	34	-5	E	5	W	b	2	-	43	30				
	Christiansund	997.7	45	-	0	b	995.3	0	48	+4	SE	3	-	b	3	-	50	41				
	Skudesnaes ..	991.3	43	SE	9	o	989.9	0	43	+2	E	6	.	o	4	-	45	41				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1000.7	43	SE	4	o	994.7	0	36	-3	E	6	-	r	6	1	43	26				
	Blaavands Huk	992.3	45	S	6	r	986.1	0	43	+2	S	1	-	r	0	1.5	45	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	991.3	45	SW	4	r	986.1	-3	45	0	SW	3	-	r	3	4	48	45				
	C. Gris Nez ...	995.4	47	WSW	8	r	992.0	-1	46	-1	W	8	*	o	7	3	48	45				
	La Hève	999.5	47	W	8	c	996.8	*	46	-2	W	7	*	o	7	2	50	45				
	Brest (St. Mathieu)	1010.3	51	WNW	5	bc	1007.4	-1	48	-2	WNW	7	*	bc	7	1	52	46				
	Rochefort (Ile d'Aix)	1013.0	52	WNW	7	o	1010.6	0	50	-2	WNW	7	*	c	*	3	57	48				
	Biarritz	1019.0	54	WSW	4	f	1016.0	0	52	-1	W	4	*	f	4	2	55	50				
	Paris	1003.5	54	WSW	4	bc	999.5	0	45	-3	SW	3	-	r	*	2	59	43				
	Belfort	1009.3	45	W	6	o	1004.0	*	45	.	W	6	*	r	*	8	46	34				
	Lyons	1012.6	49	SSE	1	o	1008.6	*	46	+8	W	2	*	o	*	1	52	38				
	Nice	1010.7	46	E	1	bc	1002.3	-4	53	15	W	5	*	c	5	-	59	49				
	Perpignan ..	1015.1	61	WNW	2	c	1011.0	-1	57	+3	NW	5	W	bc	*	-	66	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1024.2	57	W	4	f	1023.0	0	54	0	N	4	-	o	2	?	57	52				
	Madrid (8 a.m.)	1016.4	70	-	0	b	1016.7	+1	55	+7.4	-	0	-	b	*	-	70	48				
	Lisbon (7 a.m.)																					
	Gibraltar	1018.6	63	E	4	b	1016.2	*	53	-5	E	3	*	b	1	-	68	52				
	Malta (8 a.m.) ...	*	*	*	*	*	1017.3	0	55	+3	WSW	3	-	o	2	3	57	50				
	Azores (Horta, 8 a.m.)	1028.8	*	SSE	4	o	1025.2	-1	59	+2	SE	4	*	o	3	-	66	57				
	Madeira (Funchal)	1017.2	64	N	4	bc	1016.6	0	59	+2	N	4	-	b	4	-	70	59				
YESTERDAY'S REPORTS		....16th .., 8 P.M. G.M.T.					April 17th ..., 7 A.M. G.M.T.															
ITALY.	Venice	1009.0	50	W	2	bc	1008.6	0	50	+2	-	0	*	c	3	-	*	*				
	Turin	1013.4	50	-	0	b	1012.0	0	45	-5	-	0	*	b	*	-	*	*				
	Viesti	1003.3	52	SSW	2	o	1006.8	0	52	+2	N	4	*	c	3	-	*	*				
	Pesaro	1009.9	43	SW	2	b	1007.4	0	45	-1	SSW	4	*	b	4	-	*	*				
	Leghorn	1010.8	50	-	0	b	1011.4	0	46	-4	-	0	*	b	4	11	*	*				
	Rome	1008.7	48	NW	2	o	1011.4	0	46	+1	N	2	*	b	*	Trace	*	*				
	Brindisi	1002.2	50	NW	7	bc	1002.2	0	? 61	? +11	NNE	4	*	b	4	?	*	*				
	Cagliari	1010.9	52	NW	8	r	1013.6	?	50	-2	NW	4	*	b	?	8	*	*				
	Palermo	1013.6	57	W	2	bc	1011.7	0	45	-5	-	0	*	r	5	12	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..7.24 a.m.
1000 feet. W by N 33 m.p.h.
Surface. W. 14 m.p.h.

GALES
Duration and Extreme Force in British Islands.

Malin Head: 17th – 18th
W.N.W. 8. 8 p.m. – 7 a.m.
W.N.W. 9. during night
Blacksod Point: 17th – 18th
W.N.W – N.N.W. 8 7 a.m. to 7 a.m.
N.W. 9 at 6 p.m., 9 p.m. & 1 a.m.
Holyhead: 17th
Gust W. 22 m.p.s. at 8 p.m.
Falmouth: 18th
W.N.W. 8 at 7 a.m.
Southport: 17th – 18th
W – N.W. 8 11 p.m. to 5 a.m.
Gusts 26 m.p.s.
Dungeness: 17th
Squalls S.W. 8 in afternoon
London (Kew Obsy.) 17th
Gust W.N.W. 25 m/s at 16h 19m

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b 1 2 a, b	Fresh or strong winds between North and North-East, moderating later; dull, some rain or sleet, improving; cold.
3 4 a, b 5	High North-Westerly winds or gales; dull weather, some rain or sleet. Weather improving later and wind moderating; cold.
6 a, b	Same as Nos. 0 to 2.
7 a, b 8 a, b 9 a, b 10 a, b	High North-Westerly winds or gales; cloudy, with some rain. Weather improvimg later and wind moderating; cold.
Western Channel and Bay 11	Westerly or North Westerly gales, moderating later; cloudy, showery; rough sea.

FURTHER OUTLOOK.

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

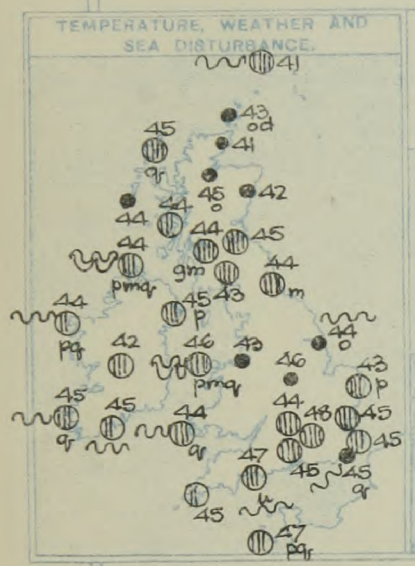
NAPIER SHAW, Director

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 18TH APRIL, 1916.

GENERAL INFERENCE,

The depression over the North Sea is likely to move away to the South-Eastward.



EXPLANATION.

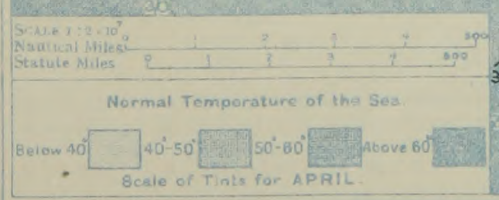
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.



Issue No. 1987.

DAILY WEATHER REPORT.

Tuesday, 18th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	16th ... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	17th ... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Vihkieluki	.	.	.	.	.	1005·3	?	39	.	N	3	*	o	*	—	*	36
Gorki	1000·3	48	NE	2	r	999·7	−1	43	o	NE	2	*	r	*	4	*	34
Hangö	1016·0	37	—	o	o	1013·2	−3	34	+2	—	o	*	o	*	—	*	37
Riga	1009·6	45	NE	2	b	1007·5	o	37	−4	NE	1	*	b	1	—	*	*
Petrograd	1016·2	34	E	3	b	1014·1	+1	27	−7	NE	3	—	f	*	—	43	27
Moscow	1009·3	37	SE	2	o	1005·1	o	39	−4	NE	3	*	r	*	—	n	37
Kiev	996·2	49	SSE	3	c	999·8	+3	45	−3	S	3	*	o	*	7	*	41
Kharkov	1004·6	46	SSW	2	bc	1009·1	+2	36	−10	SSW	2	*	b	*	7	*	41
Kishinev	998·3	46	SSE	4	b	1004·2	+3	41	−3	SSW	3	*	b	*	—	*	37
Elisabetgrad ...	1000·3	45	SSW	2	r	1004·7	+4	43	−2	SSW	3	*	b	*	—	*	41
Nicolaiev	1001·6	50	SSW	6	b	1005·7	*	46	−3	SSW	3	*	b	*	—	*	45
Odessa	1000·8	48	SW	4	b	1005·6	+2	45	−3	SW	3	*	b	*	—	*	43

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	20	49	41	ro bc	r. o	0·7
	Banff	5	51	38	od	or. bc	0·6
	St. Andrews	8	54	43	*	*	1·2
Eng. N.E.	Harrogate	4.	48	43	o.cp	o.c.bcp.	2·1
	Skegness	11	51	43	op bc	o[illegible]r. bc	1·2
Eng. N.W.	Morecambe	3	47	45	cp	b.c.bc	2·0
	Blackpool						
	Southport	3	50	45	o.c.bc	c.o.cp	3·0
Midlands	Buxton						
	Leamington Spa	5	53	44	cp. bc	h.cp.bc	5·8
	Malvern						
	Ross-on-Wye	3	58	44			5·2
Wales.	Rhyl	32	51	45	q	q	1·9
	Colwyn Bay	7	51	45	bcp	cp.	2·8
	Llandudno	6	51	45	p	p	1·8
	Aberystwyth	11	47	44	r o c	c b o	2·5
	Tenby	4	52	46	bc	bc c	6·9
England, E.	Lowestoft	9	53	43	or b c	c op	0·3
	Felixstowe	7	55	43	o bc	bc orq	1·2
	Walton-on-Naze	6	.	.	bcqr. bc	bcqr. bc	2·5
	Southend-on-Sea	3	54	43	c bc op	o c bcp	2·3
England, S.E.	Margate	5	56	43	c	o[illegible]q	2·1
	Ramsgate	[illegible]	54	43	c	pc	2·8
	Hastings	6	52	45	or c	bc op c	2·4
	Eastbourne	10	51	44	bcp	bcp	2·1
	Seaford	8	50	42	p	p.	2·7
	Brighton						
	Worthing	7	52	45	o. c	cr ltrh	3·3
	Littlehampton	4	52	46	o bc	bcq	2·7
	Bognor						
	Southsea						
	Bournemouth	1	54	45	o od	bc	2·0
England, S.W.	Weymouth	2	55	45	dpc bc	p bc	2·5
	Torquay						
	Paignton						
	Penzance	4	54	48	bc c	c	6·5
	Newquay	*	51	47	c. bc	b	4·5
	Ilfracombe	2	45	39	c. bc	bcp. bc	3·5
	Weston-super-Mare ...	4	52	41	c bc	bc.c b	5·0
	Bude	6	53	45	o. bc. c	b. bc. c	4·1

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	43	74	4·0	57	44	40	1	c	cp	c.cp
City (Bunhill Row)	*	*	3·8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	79		56	44	34	1	bc od	op	bcp.od.
Camden Sq. (Brit. Rainfall)	57	73	4·8	56	44	41	1	c	cz	*
Hampstead (Reservoir) ...	*	76	3·3	53	40	34	1	bc	o	or
Richmond Park ...	*	*	3·8							
Kew. (See front page.)	*	*	5·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	63	74	4·9							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
960 Joules	19·2 Milliwatts.	68 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	3	52	46	44	oqp	oqp	oqp	*
Darwen to 9 p.m.								
Manchester ,,	8	50	45	*	or.o	o.c.o	o.cr.o	1·1
Birmingham ,,	5	48	43	42	or	c.cp	cp.o	3·2
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	56	44	43	od.o	o.c	c.op.b	*

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

18th & 19th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.59 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	6.41 5.39	12.40 12.40	7.40 7.41

NOTES ON YESTERDAY'S WEATHER.

Weather was showery over most of the country, with thunder locally in the East and South during the afternoon. Sunshine was variable up to 7 hours at Falmouth and Tenby.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 110.

Wednesday, 19th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sun 0-1	PAST 24 HOURS. Rain fall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	9959	42	ESE	4	0	9966	0	40	-1	NNE	2	-	0	2	1	43	39	0qp	om	op	*
	Deerness (Orkney)	9919	41	S	3	0e	9962	*	39	-4	NE	2	-	r	4	2	44	39	od.o	oe	or	0.0
	Stornoway ...	9907	45	NE	4	c	9954	+2	41	-4	NE	5	-	0q	5	1	47	40	op	opc.o	0q	0.0
	Castlebay (Barra Isd.)	9908	45	NW	4	opm	9932	+2	43	-1	NNE	4	N	bc	4	1	49	41	rmt	om.op.m	pmrbc	2.6
	Glasgow ...	9882	42	WNW	1	omr	9915	+4	39	-5	NE	2	NW	c	*	5	49	39	om.omp	omp.or	mpop	0.1
	Eskdalemuir ...	9878	40	-	0	0d	9896	+2	38	-5	NNE	4	-	o	*	4	51	36	cod.or	or.op	0.or	3.6
	Malin Head ...	9890	43	NW	8	omqr	9915	+1	43	-1	NNW	3	N	bcm	5	7	46	41	omq	omqr	cmqp	0.0
	Blacksod Point	10002	43	NNW	8	cmqp	9961	-2	43	-1	NW	9	NW	cmqp	6	3	47	39	cmqp	cmqp	cmqp	*
	Valencia ...	10078	45	NW	5	o	10028	-2	44	-1	WNW	5	NW	c	*	1	49	42	cq.p	c.opq.r	cpq.c	2.9
	Roche's Point	10046	46	NW	5	c	10005	*	43	-2	NW	5	N	c	4	0.3	50	41	bc.cp	c.op.c	bcbpc	*
	Birr Castle ...	10011	43	NW	4	c	9966	*	43	+1	NW	3	-	c	*	4	49	40	cqpr	cqpr	cqp	3.2
	Donaghadee ...	9976	44	NW	7	omqqp	9909	+1	43	-2	NNW	4	-	cm	3	1	47	42	ompq	ogmpq	ompcm	*
	Liverpool (Bidston)	9911	44	WSW	6	o	9868	+2	43	0	WNW	3	W	o	3	3	46	41	opq	orq	op	0.1
	Holyhead ...	9942	46	WNW	8	opq	9905	+1	44	-2	NW	6	-	opdrm	6	4	48	43	opcpq	opc.op	opdm	1.2
	Pembroke (St. Ann's)	10006	47	NNW	6	bcq	9944	?	?	?	WNW	4	-	o	4	?	49	42	bcq	bcq.p	or	3.8
	Scilly (St. Mary's)																					
	Falmouth ...	10031	48	W	7	bc	9993	-1	44	-1	WNW	7	-	b	*	1	51	40	bq.cq	cq.bcq	opbcq	7.9
	Jersey (St. Aubin)	10027	49	W	6	oqp	9987	*	46	-1	W	6	W	bqp	4	1	52	43	bcqp	bc.oqp.	obcqp	7.8
	Portland Bill ...	9979	46	WNW	6	cq	9938	-3	45	-2	WNW	7	NW	cq	5	1	49	43	cq	cqp	bcc	*
	Dungeness ...	9927	49	WNW	5	oq	9908	0	42	-3	WSW	5	-	oq	5	1	52	41	ac.oq	oq	o.c.oq	*
	Dover	9932	47	WNW	4	o	9916	0	40	-5	W	4	W	o	3	1	53	40	cpr.bp	bc.cp.r	cpr	4.4
	Wick	9909	41	ENE	4	r	9952	+1	40	-1	ENE	4	-	o	5	2	44	39	op.d	ompd	ogmp	*
	Nairn	9892	43	ENE	3	oq	9940	*	39	-6	ENE	3	-	or	3	9	47	37	r.o.d	p.c	gpoq	0.0
	Aberdeen ...	9878	43	NE	3	r	9923	+2	39	-3	NE	5	-	r	4	7	49	38	or	opor	or	0.3
	Leith	9864	45	E	1	r	9905	-2	39	-6	NE	2	-	r	4	2	50	39	ogr.o	od.o	r	*
	Tynemouth ...	9863	42	-	0	ogd	9874	+1	41	-3	N	3	-	omr	4	4	49	40	omr	omr	omr	*
	Spurn Head ...	9879	45	-	0	or	9854	-1	44	0	W	5	-	oq	4	10	49	40	cqp	c.o.l.r	ogr	0.0
	Yarmouth ...	9885	45	WNW	2	c	9865	0	42	-1	WNW	4	-	o	3	5	49	41	bcqp	cp	op.o	1.8
	Clacton-on-Sea	9911	48	WNW	4	o	9892	0	42	-3	W	4	-	o	3	3	53	41	ogr	og	og	1.6
	Nottingham ...	9903	45	WNW	6	o	9872	*	45	-1	NW	2	NW	om	*	1	51	40	o.cp	o.c	o	1.0
	Benson (Oxon.) ...	9938	47	W	4	c	9904	-1	42	-2	W	4	-	o	*	1	52	39	op	bc	bc.o	*
	Sth Farnborough	9940	50	WNW	3	c	9909	0	42	-3	W	4	-	o	*	1	53	39	op	op	c.bcor	?
	London (Kew Obsy.)	9939	47	WNW	3	omr	9905	-1	42	-6	WSW	4	-	o	*	5	50	40	o.od.o	bod.omp	o.mr.omr.o	mrbc.o	0.6
NORTHERN EUROPE.	Spitsbergen ...	10293	18	S	4	bc	10310	0	18	-9	SE	2	*	b	*	*	27	5				
	Vardö	10235	19	SE	5	o	10187	-3	23	+4	-	0	-	s	0	*	28	16				
	Bodö	10091	30	E	2	b	10080	0	27	-7	E	6	-	b	2	-	34	23				
	Christiansund	9975	43	SSE	1	b	9968	0	41	-2	SE	4	-	b	3	-	52	37				
	Skudesnaes ...	9932	41	ENE	5	c	9928	0	41	-2	ENE	6	-	b	4	-	45	37				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	9931	37	ENE	6	r	9933	0	37		E	5	-	o	5	3	45	34				
	Blaavands Huk	9873	45	SE	1	b	9870	0	43		ESE	2	-	o	2	2	48	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	9866	45	W	3	o	9852	+1	45	0	SW	3	-	o	3	3	46	43				
	C. Gris Nez ...	9924	47	WSW	7	r	9909	0	43	-3	W	7	*	o	6	2	50	43				
	La Hève	9887	46	W	7	o	9857	*	44	-2	WNW	6	*	o	6	1	50	43				
	Brest (St. Mathieu)	10080	48	WNW	7	o	10040	-2	46	-2	WNW	6	*	c	4	2	52	43				
	Rochefort (Ile d'Aix)	10096	50	WNW	8	c	10063	-1	47	-3	WNW	7	*	r	*	4	52	46				
	Biarritz	10163	51	NW	4	o	10109	-1	50	-2	SW	5	*	r	5	1	55	48				
	Paris	9997	48	W	5	o	9976	0	45	0	WSW	3	-	b	*	1	52	41				
	Belfort	10023	41	W	6	o	10017	*	37	-8	WSW	7	*	o	*	4	46	36				
	Lyons	10061	48	W	4	b	10061	*	42	-4	-	0	*	o	*	1	56	41				
	Nice	10064	53	W	6	b	10068	+1	52	-1	W	5	*	b	6	-	66	45				
	Perpignan ...	10097	55	NW	6	bc	10092	-1	54	-3	NW	3	W	o	*	-	66	48				
	Sanguinaire ...	*	54	NW	5	o	*	*	54	-1	NW	6	*	o	6	-	63	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	10219	54	N	4	f	10151	-5	54	0	SSW	3	-	o	3	-	57	50				
	Madrid (8 a.m.)	10103	72	NW	3	b	10126	0	55	0	ENE	1	-	b	*	-	73	46				
	Lisbon (7 a.m.)																					
	Gibraltar	10122	62	NW	1	b	10084	*	56	+3	E	1	*	m	1	-	72	52				
	Malta (8 a.m.) ...	*	*	*	*	*	10099	0	63	+8	W	2	-	b	1	-	63	55				
	Azores (Horta, 8 a.m.)	10163	*	SSE	5	o	10177	-2	59	0	SSW	5	*	r	4	6	63	59				
	Madeira (Funchal)	10167	64	N	4	b	10184	0	57	-2	W	4	-	b	4	-	64	57				
YESTERDAY'S REPORTS		17th April, 8 P.M. G.M.T.					18th April, 7 A.M. G.M.T.															
ITALY.	Venice	10180	57	-	0	b	10036	0	50	0	-	0	*	o	2	-	*	*				
	Turin	10076	55	-	0	bc	10020	0	45	0	-	0	*	b	*	-	*	*				
	Viesti	10080	50	NW	2	b	10104	0	54	+2	-	0	*	b	2	-	*	*				
	Pesaro	10100	50	-	0	b	10052	0	54	+9	E	2	*	o	2		*	*				
	Leghorn	10121	55	W	4	b	10064	0	54	+8	S	4	*	o	5	Trace	*	*				
	Rome	10127	52	W	4	b	10092	0	54	+8	-	0	*	o	*	-	*	*				
	Brindisi	10108	54	N	4	b	10099	0	50	-11	W	2	*	b	3	8	*	*				
	Cagliari	10146	61	NW	5	o	10135	0	54	+4	NW	4	*	bc	4	2	*	*				
	Palermo	10159	50	SW	2	b	10153	0	64	+9	SSW	2	*	r	5	4	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..7.25 a.m.

2,000 feet.	W.NW.	40 m.p.h.
1,000 " .	W.	23 "
Surface. .	W.	16 "

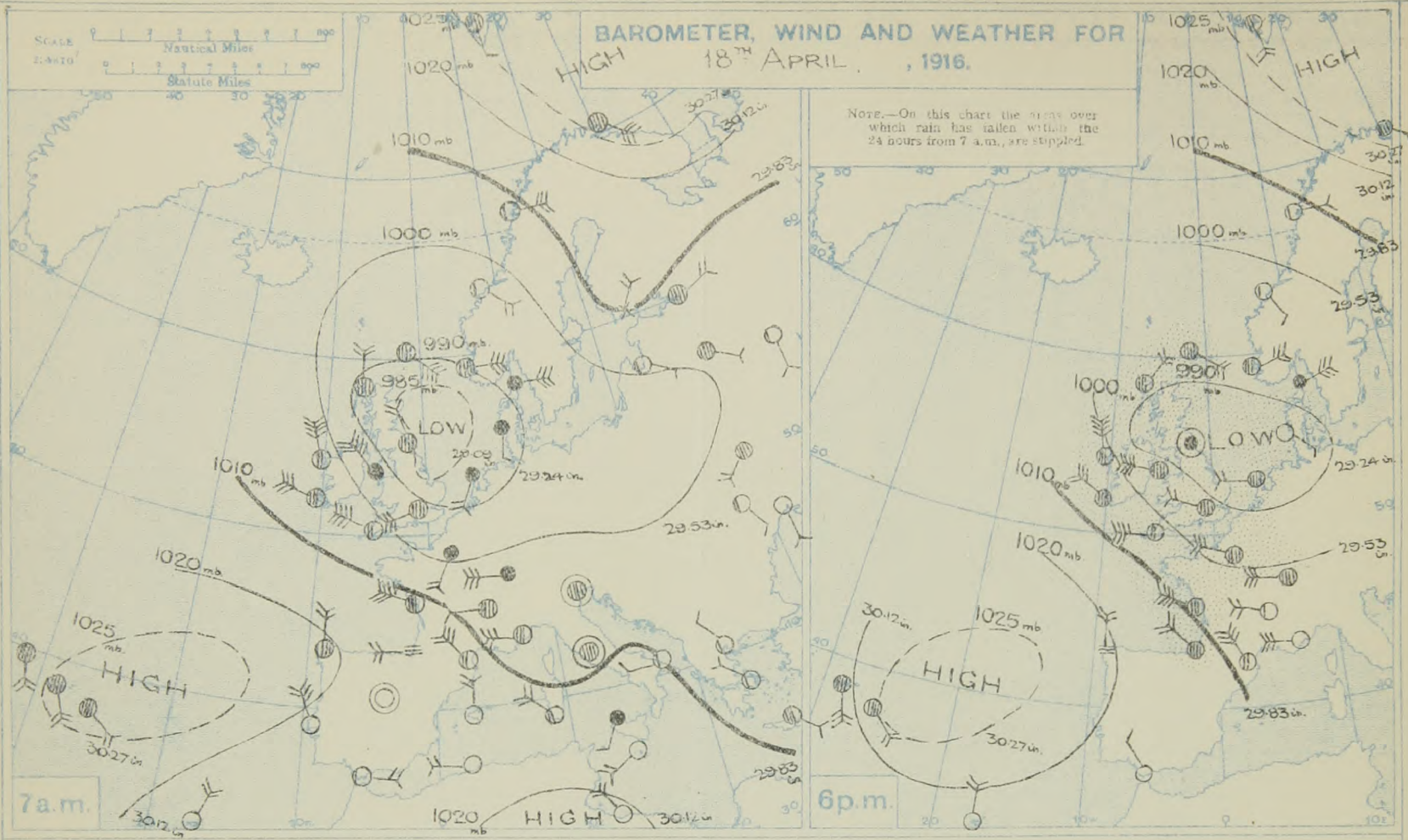
GALES.
Duration and Extreme Force in British Islands.

Main Head: 18th
N.W. 8 7 a.m - 10 p.m
N.W. 9 at 9 a.m.
Blacksod Point: 18th - 19th
N.W. 8 7 am - 7 a.m
N.W. 9 7 am of 19th.
Holyhead: 18th & 19th.
W.N.W. 8 at. 6 p.m
N.W. 8 at. 1 a.m.
Falmouth: 18th
N.W. 9 during morning

Notes:
Spurn Head: 18th 3 p.m - 5 p.m
Thunderstorms with rain

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

BAROMETER, WIND AND WEATHER FOR 18TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 (a, b), 1 — Fresh North-Easterly winds; dull, some rain, fairer intervals; cold.

2 (a, b) — Fresh Northerly winds; dull, occasional rain and some fairer intervals; cold.

3, 4 (a, b), 5 — Fresh or strong North-Westerly or Westerly winds; dull, some rain and some fairer intervals; rather cold.

6 (a, b) — Same as Nos. 0 and 1.

7 (a, b), 8 (a, b), 9 (a, b), 10 (a, b) — Fresh or strong North-Westerly winds, decreasing later; fair, some showers; rather cold.

11 — Strong Westerly or North-Westerly winds, decreasing gradually; rather rough sea; cloudy, showery.

FURTHER OUTLOOK.

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

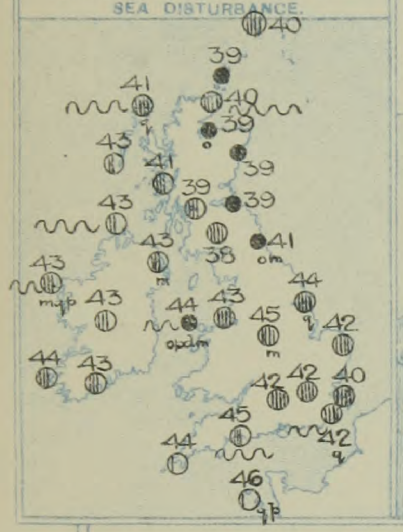
Millibs. Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 19TH APRIL, 1916.

GENERAL INFERENCE.

The depression over the North Sea is likely to remain stationary or move a little to the Southward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

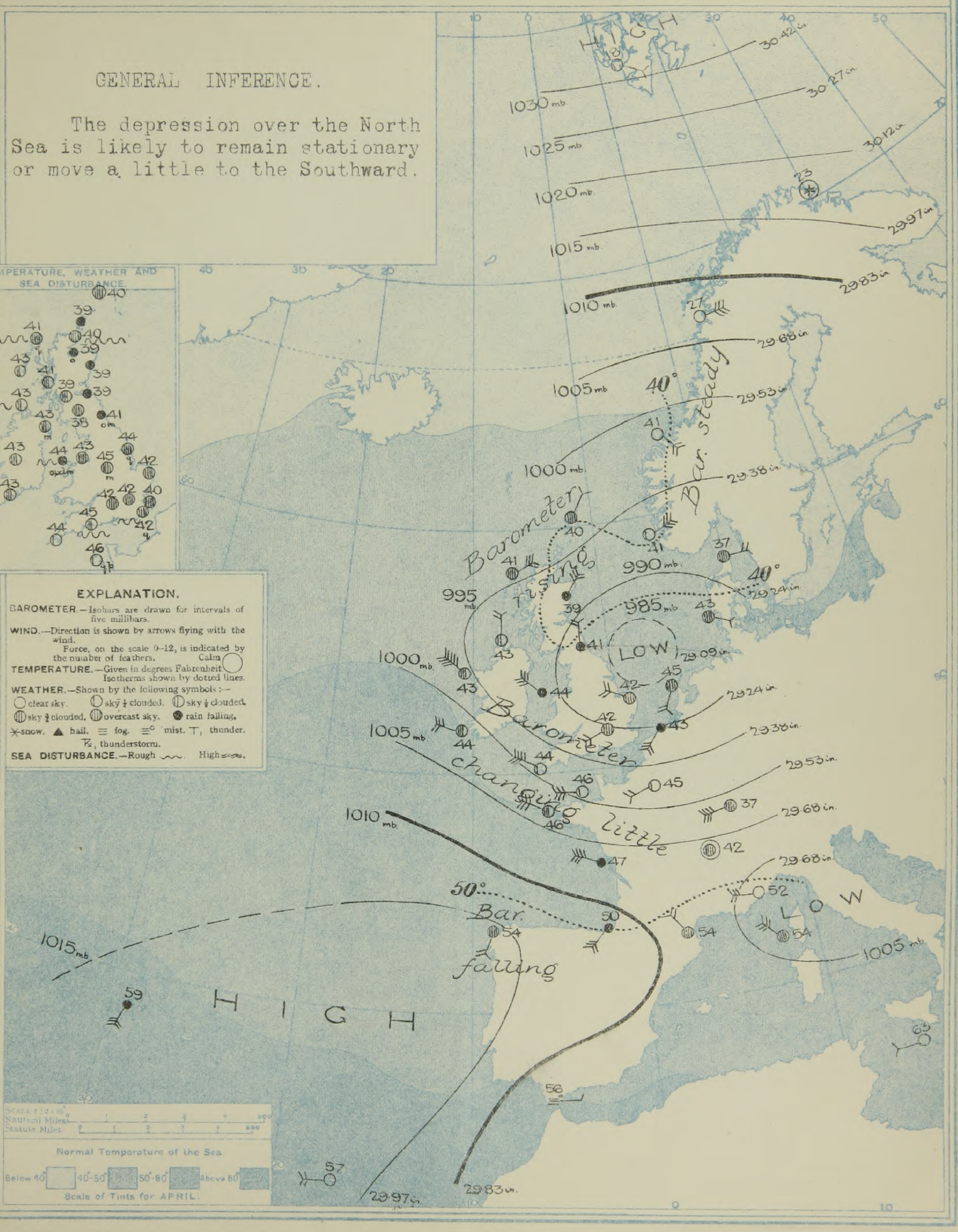
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈.



Scale 1:10 000000
Nautical Miles 0 1 2 4 6 8 10
Statute Miles 0 1 2 3 4 5 6

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

Issue No. 19,812.

DAILY WEATHER REPORT.

Wednesday, 19th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	17th, at 9 P.M. Local Time. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	18th, at 7 A.M. Local Time. 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 1–0	Rainfall. Millimetres	Temp. Max.	Temp. Min.
Archangel	1018·0	21	NW	3	o	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Vilikieluki	.	.	.	.	.	1001·0	#	43	+4	SE	2	*	o	*	2	*	36
Hangö	1008·8	30	NE	3	o	1010·1	+3	30	−4	NE	3	*	s	*	~	*	28
Riga	1003·8	45	E	2	c	1000·0	o	43	+6	ESE	1	*	b	*	−	*	39
Petrograd	1009·6	32	ENE	4	b	1006·0	−1	32	+5	ENE	3	~	o	*	−	34	27
Moscow	1007·1	43	SSE	1	b	1007·7	*	41	+2	S	2	*	b	*	2	*	36
Kiev	1003·0	45	W	2	b	1003·0	+2	43	−2	SW	3	*	o	*	2	*	39
Kharkov	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Kishinev	1005·3	60	S	3	bc	1006·3	o	41	o	SE	1	*	b	*	−	*	37
Elisabetgrad ...	1007·0	46	S	3	b	1007·0	o	39	−4	S	3	*	b	*	~	*	37
Nicolaiev	1007·9	48	SSW	3	c	1006·9	*	46	o	S	2	*	b	*	−	*	45
Odessa	1006·7	54	SSW	5	o	1006·6	o	46	+1	WSW	2	*	c	*	-	*	43

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	7	46	42	op	o	0·3
	Banff	14	46	41	od	od	0·7
	St. Andrews				*	*	
Eng. N.E.	Harrogate	3	52	41	o.c.bop	bc.op	4·7
	Skegness	6	51	42	op.c	p c.o	1·5
Eng. N.W.	Morecambe	-	47	43	c.bc	bc c o	3·4
	Blackpool						
	Southport	7	47	44	o c o	od or	0·4
Midlands	Buxton						
	Leamington Spa	4	49	42	c.op	c.op	0·1
	Malvern						
	Ross-on-Wye	~	50	42	bc	bc.c.	2·1
Wales.	Rhyl	16	46	43	r	r	0·0
	Colwyn Bay	4	48	43	cp	cp	0·3
	Llandudno	5	47	44	cp c	c	0·2
	Aberystwyth	5	47	42	or.o	c.b.o	1·5
	Tenby	1	52	43	bc c	bc	7·7

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	8	49	43	or.op	c op	1·3
	Felixstowe	4	52	43	or	or t l	0·8
	Walton-on-Naze	5	.	.	o.cr	bclq.bc.	1·6
	Southend-on-Sea	3	54	43	op	c oph	1·5
England, S.E.	Margate	3	53	44	op	op	1·7
	Ramsgate	3	52	42	c	p.c	2·3
	Hastings	-	52	44	o	o. c	0·6
	Eastbourne	1	51	43	bcq	bcq	2·0
	Seaford	Trace	51	##	c	c	2·5
	Brighton	0·3	53	44	o.c	c.	2·4
	Worthing	-	55	44	c	c	5·1
	Littlehampton	0·2	52	47	bc	bc	4·0
	Bognor						
	Southsea						
	Bournemouth	1	52	43	o	o.c.o	1·1
England. S.W.	Weymouth	2	53	45	o.c	c bc c	1·7
	Torquay	-	51	45	o.c	c	3·3
	Paignton	0·3	51	##	c	c	5·1
	Penzance	2	52	45	bc c	cp r	6·3
	Newquay	*	49	43	o.c.bc	b.bc	3·4
	Ilfracombe	-	49	40	o	c.bc	0·5
	Weston-super-Mare ...	1	49	43	c	bcp.bc	1·5
	Bude	2	53	45	c.bc.c	c.bc.c	3·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.) ...	92	78	0·5	52	40	37	5	op	opq	o
City (Bunhill Row)	*	*	1·2.	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	73.		53	41	36	6	or	r	dp.o.
Camden Sq. (Brit. Rainfall)	85	71	1·5	53	40	37	2	c.bc	cp.	*
Hampstead (Reservoir) ...	*	74	1·3.	52	37	31	3	bc.o	op	o.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·6.							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	76	69	4·9							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
474 Joules	9·4 Milliwatts.	56 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*					*		
Teignmouth to 9 ,,								*
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	4	51	44	40	or.o	o.dqp	dqp.o	*

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

19th & 20th April, 1916.	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.

The day was again showery with thunderstorms locally on the East coast. Temperature reached 50° in most districts. There was little sunshine generally but about 8 hours was recorded at Falmouth and Jersey.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 111

Thursday 20th April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 8 hours.	Temp. Dry Bulb.	Change in 24 hours	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	9978	45	NE	2	bc	9993	0	42	+2	NE	3	E	bc	2	-	47	39	o.c.	bc.	bc	*
	Deerness (Orkney)	9963	41	E	4	o	9976	*	41	+2	NE	3	E	c	4	3	43	39	r.oe	o	orf	0.7
	Stornoway ...	9955	43	NNE	3	odp	9986	+2	43	+2	NE	4	-	cq	4	1	46	40	odp	odp	cq	0.0
	Castlebay (Barra Isd.)	9949	44	N	4	op	9971	+2	43	0	N	3	N	bc	3	3	46	40	bco	op	opr bc	4.1
	Glasgow ...	9923	41	NNE	4	cd	9935	+1	39	0	NE	2	-	ornd	*	4	44	36	odp cp	ornd	odp od	0.2
	Eskdalemuir ...	9905	37	NNE	4	orm	9912	+1	38	0	NNE	4	-	od	*	3	40	35	cp	or	od od	0.0
	Malin Head ...	9934	45	N	4	bcv	9949	+2	41	-2	NE	2	N	bc	2	0.8	49	38	bc	bcv	bc	6.1
	Blacksod Point	9932	43	NNE	5	omr	9952	0	41	-2	NNE	3	NE	cgp	3	6	46	39	ornd	omr	bccp	*
	Valencia ...	9981	45	W	6	b	9959	+8	41	-3	ENE	2	NW	bc	*	2	48	41	c	c.b.o	bc.c.cpbc	8.5
	Roche's Point	9967	47	NW	5	bc	9954	*	42	-1	NNW	2	NW	c	2	Trace	50	40	c	c.bc	cpc	*
	Birr Castle ...	9929	43	W	2	r	9948	*	39	-4	W	1	W	c	*	6	45	35	od.r	or	or.c	0.0
	Donaghadee ...	9925	43	NE	4	cm	9925	0	40	-3	NNE	4	N	cmpq	3	1	46	40	om	om.cm	ogmpq	*
	Liverpool (Bidston)	9897	43	WNW	3	bc	9903	0	40	-3	NNW	1	NW	r	2	2	47	39	bc	c.o	or	3.5
	Holyhead ...	9906	45	N	4	og	9911	+1	42	-2	N	5	NE	og	4	2	49	40	opcpc	c.o.c	cpoco	3.3
	Pembroke (St. Ann's)	9929	45	WNW	6	cq	9933	+2	42	?	NW	3	NW	bc	3	2	49	43	cq r	oq p	op	1.1
	Scilly (St. Mary's)																					
	Falmouth ...	9968	47	W	6	bq	9941	+1	41	-3	W	4	-	r	*	1	51	40	cq	oq bq	bcphr	6.6
	Jersey (St. Aubin)	9980	48	W	5	bq	9958	*	44	-2	W	5	-	bq	4	2	51	41	bcqp	bcqp	oqpbq	6.3
	Portland Bill ...	9938	47	W	6	c	9918	-1	43	-2	WSW	6	W	oq	5	1	49	42	c	c	bcc op	*
	Dungeness ...	9910	45	SW	4	orq	9912	0	45	+3	SW	5	SW	bc	5	2	49	41	oq	o.c or q	or p.bc	*
	Dover	9909	44	SW	2	c	9918	+2	44	+4	WSW	4	W	bc	?	2	49	40	o.c bcp	cp bc.c	odp bc	2.6
	Wick	9961	41	NNE	2	o	9974	+2	42	+2	ENE	2	-	r	4	1	43	39	ompcm	omp.oq	op.d	*
	Nairn	9949	41	E	2	od	9964	*	40	+1	ENE	4	-	oru	4	4	44	37	or.c	d.c	pgu	0.6
	Aberdeen ...	9937	40	ENE	4	r	9947	+2	41	+2	NE	4	-	r	4	10	42	39	or	or	or	0.0
	Leith	9918	40	NE	3	r	9924	+1	41	+2	NE	3	-	r	5	12	42	38	r	r	r	*
	Tynemouth ...	9893	41	NE	2	omp	9893	0	41	0	NE	2	-	omr	4	4	41	40	omr	omp	omr	*
	Spurn Head ...	9879	45	NE	4	c	9888	0	43	-1	N	1	-	o	4	1	47	41	oqp	cq	c	1.0
	Yarmouth ...	9886	44	SW	1	c	9897	+2	42	0	W	2	-	o	2	2	50	39	cp	cp	cm om	1.8
	Clacton-on-Sea	9893	49	W	2	c	9905	+1	42	0	WSW	3	W	o	2	5	51	41	oq	oq tlp	cw orq	1.6
	Nottingham ...	9883	49	NW	3	c	9895	*	40	-5	SW	1	SW	dmg	*	3	51	39	opm.c	opc	c.o	1.1
	Benson (Oxon.) ...	9906	44	W	4	o	9906	+2	40	-2	WSW	2	-	r	*	4	51	39	bc	op	or	*
	Sth Farnborough	9911	44	WSW	2	r	9907	+1	41	-1	WSW	3	-	o	*	7	55	40	op c	p.r.o	or.o	1.3
	London (Kew Obsy.)	9908	46	WSW	3	c	9909	+1	43	+1	SW	4	-	o	*	3	51	41	o.bc	bc ough r.c	o d r o	1.2
NORTHERN EUROPE.	Spitsbergen ...	10273	10	S	1	b	10230	-2	5	-13	S	1	*	b	*	*	21	-6				
	Vardö	10151	27	-	0	o	10154	?	23	0	WSW	3	-	c	2	*	25	18				
	Bodö	10074	28	E	2	b	10061	0	34	+7	E	1	-	o	1	-	34	25				
	Christiansund	9991	45	-	0	b	9990	0	45	+4	E	1	-	b	3	-	48	37				
	Skudesnaes ..	9953	43	E	6	o	9958	0	43	+2	E	4	-	o	4	1	46	39				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	9946	43	ENE	3	r	9967	+2	41	+4	ENE	3	-	o	3	2	45	37				
	Blaavands Huk	9901	43	S	1	c	9931	0	43	0	SE	3	-	o	2	2	48	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	9886	45	SW	2	bc	9899	+2	45	0	SSE	1	-	c	1	Trace	46	37				
	C. Gris Nez ...	9913	43	WSW	6	r	9919	+1	45	+2	WSW	6	*	bc	6	4	46	43				
	La Hève	9954	44	WSW	7	c	9930	*	41	-3	WSW	6	*	bc	6	-	50	39				
	Brest (St. Mathieu)	10019	47	W	6	o	9984	+1	45	-1	WNW	5	*	c	4	2	52	43				
	Rochefort (Ile d'Aix)	10047	50	WNW	6	c	10031	0	48	+1	W	5	*	c	*	3	55	46				
	Biarritz	10078	52	SW	4	r	10061	0	51	+1	W	2	*	o	3	3	52	50				
	Paris	9973	48	WNW	4	o	9984	+2	43	-2	SSW	3	-	o	*	Trace	55	39				
	Belfort	10024	40	WSW	4	c	10033	*	41	+4	WSW	7	*	c	*	3	42	36				
	Lyons	10039	50	-	0	bc	10052	*	44	+2	SE	1	*	bc	*	1	55	39				
	Nice	10002	52	WSW	6	b	10033	+1	50	-2	SW	1	*	b	5	-	66	45				
	Perpignan ..	10074	55	NW	2	o	10067	+2	52	-2	-	0	-	o	*	Trace	68	50				
	Sanguinaire ...	*	54	NW	5	o	*	*	54	0	SE	3	*	o	4	-	64	48				
SOUTHERN EUROPE.	Coruna (7 a.m.)	10114	55	WSW	5	r	10091	0	54	0	SW	3	-	o	4	2	59	50				
	Madrid (8 a.m.)	10033	73	N	2	b	10063	0	59	+4	NNW	2	-	b	*	-	75	50				
	Lisbon (7 a.m.)																					
	Gibraltar	10084	61	W	5	b	10101	*	59	+3	NW	5	*	b	2	-	73	56				
	Malta (8 a.m.) ...	*	*	*	*	*	?	0	68	+5	SSW	1	NW	o	0	-	72	57				
	Azores (Horta, 8 a.m.)	10162	*	SSW	4	m	10235	0	59	0	WSW	3	*	r	2	-	66	57				
	Madeira (Funchal)	10198	63	N	3	o	10194	0	59	+2	N	2	-	o	2	-	64	57				
YESTERDAY'S REPORTS		18th April, 8 P.M. G.M.T.					19th April, 7 A.M. G.M.T.															
ITALY.	Venice	10004	46	-	0	b	10006	0	56	+5	-	0	*	o	2	9	*	*				
	Turin	9988	55	N	6	b	9997	0	46	+1	-	0	*	b	*	-	*	*				
	Florence	10028	59	S	4	o	10034	0	64	+10	WNW	2	*	b	2	2	*	*				
	Pesaro	9994	54	SW	4	b	9987	0	55	+1	SW	4	*	b	3	2	*	*				
	Leghorn	10009	57	W	4	b	10015	0	55	+1	W	4	*	b	5	-	*	*				
	Rome	10039	57	SW	3	o	10042	+2	55	+1	-	0	*	b	*	-	*	*				
	Brindisi	10023	61	SW	2	bc	10050	+3	54	+4	WNW	3	*	b	4	Trace	*	*				
	Cagliari	10092	64	NW	4	b	10101	0	57	+3	NW	4	*	b	3	-	*	*				
	Palermo	10104	59	SW	4	b	10087	0	64	+10	S	4	*	b	3	1	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7.7 a.m.
1,000 feet. W.S.W. 16 m.p.h.
Surface. W. by S. 9 m.p.h.

GALES
Duration and Extreme Force in British Islands.

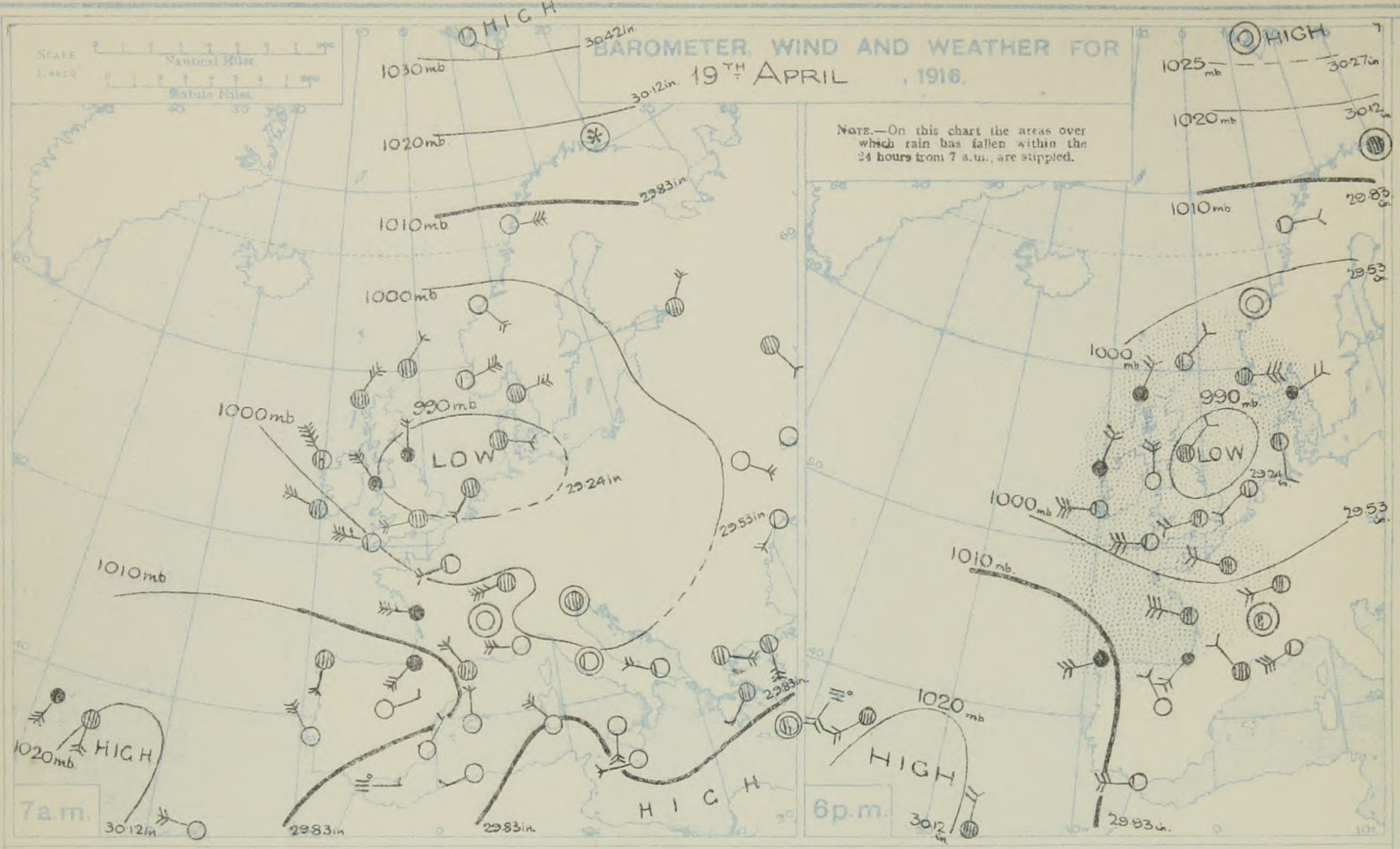
Blacksod Point: 19th
NW 8. 7 am – 2 p.m.

Notes

London (Kew Obsy) 19th at 1.45 pm
Line Squall, accompanied by hail. Wind changed from W to N.W. Pressure rose about 1 mb, and temperature fell 6°F.

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

BAROMETER, WIND AND WEATHER FOR 19TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b; 1	Moderate North East winds; dull, some rain; cold.
2 a, b	Light Northerly winds; dull, some rain; cold.
3; 4 a, b	Moderate winds between North and West; some rain, fairer intervals; cold.
5	Moderate or fresh winds between West and South-West; some rain, fairer intervals; cold;
6 a, b	Same as Nos. 0 and 1.
7 a, b	Moderate Northerly winds; some rain, fairer intervals; cold.
8 a, b	Moderate or fresh Westerly or North-Westerly winds; some rain, fair intervals; cold.
9 a, b; 10 a, b	Same as Nos. 7 and 8a.
Western Channel and Bay 11	Fresh Westerly winds; moderate sea; some rain, fair at times.

FURTHER OUTLOOK.

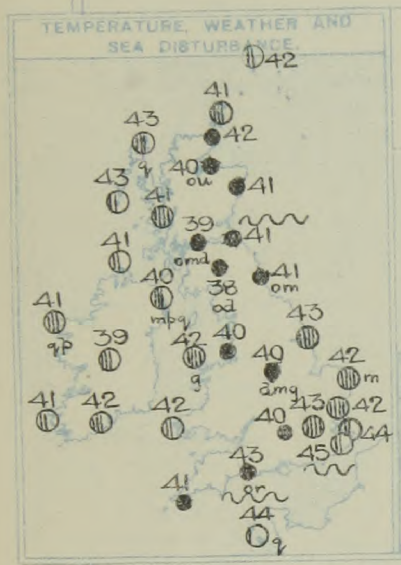
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 20TH APRIL, 1916.

GENERAL INFERENCE.

The depression over the North Sea is likely to remain almost stationary.



EXPLANATION.

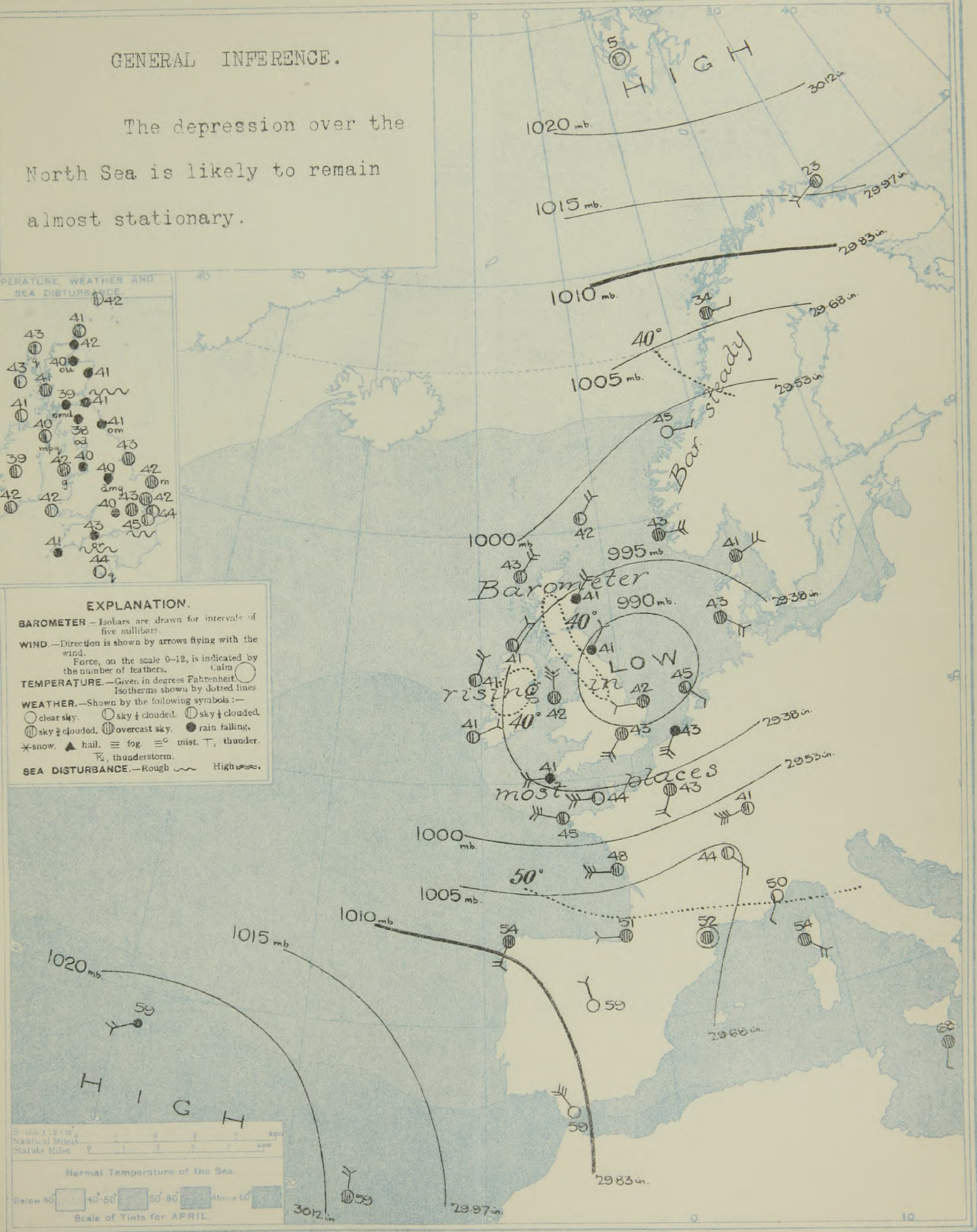
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.



Issue No. 19,873

DAILY WEATHER REPORT

Thursday, 20th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	1916 AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	1916 AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel												*				*	
Ulleaborg												*				*	*
Viipuri (Viborg)	1001·7	45	SE	2	b	1003·3	-1	41	-2	—	0	*	b	*	—	*	39
Hangö	1003·7	36	ESE	5	c	1004·8	+1	32	+2	ESE	4	*	c	*	1	*	28
Riga	9999	45	—	0	c	9999	+1	45	+2	ESE	1	*	c	*	—	*	43
Petrograd	1005·2	34	NE	2	c	1006·0	+1	34	+2	NE	3	—	c	*	—	36	32
Moscow	1007·8	45	SE	2	c	1007·1	0	43	+2	SSE	2	*	c	*	3	*	39
Kiev	1003·5	48	WNW	2	c	1003·3	0	46	+3	SE	3	*	b	*	—	*	41
Kharkov	1007·4	48	ESE	2	r	1006·9	0	43	.	NE	1	*	f	*	9	*	44
Kishinev	1005·1	52	SSW	3	b	1004·0	-2	50	+9	S	3	*	c	*	-	*	48
Elisabetgrad ...	1005·5	45	—	0	bc	1005·6	0	43	+4	S	1	*	b	*	—	*	36
Nicolaiev	1006·0	50	SSW	3	b	1006·0	*	46	0	-	0	*	b	*	—	*	41
Odessa	1006·3	48	WSW	3	b	1005·5	+1	50	+4	SW	3	*	b	*	—	*	46

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	46	39	c	o	0·0
	Banff	5	42	39	o p d	o p d . b c	0·7
	St. Andrews	6	41	37	*	*	0·0
Eng. N.E.	Harrogate	2	46	38	o p	o . c p .	0·4
	Skegness	6	48	40	o p c	p . h . o	1·1
Eng. N.W.	Morecambe	-	47	43	c . b c	c . b c	1·4
	Blackpool						
	Southport	2	47	42	c . o . c	c . b c . c . o	6·5
Midlands.	Buxton						
	Leamington Spa	2	51	40	o . c p	o . c p	1·5
	Malvern						
	Ross-on-Wye	2	53	40	b c h	b c p	1·2
Wales.	Rhyl	4	48	41	b c	b c	6·0
	Colwyn Bay	4	48	41	b c	b c	4·7
	Llandudno	3	48	41	c . b	b c	5·4
	Aberystwyth	6	46	40	r . o	o r	0·0
	Tenby	9	48	40	r	r	0·0
England, E.	Lowestoft	5	50	42	o r c p	c . o p	1·0
	Felixstowe	1	50	41	o g	o g r	0·6
	Walton-on-Naze	6	.	.	b c . c	b c . o . b . o r	1·4
	Southend-on-Sea	1	51	41	o d p	g c . b c	1·2
England, S.E.	Margate	2	51	41	o p	o p	0·8
	Ramsgate	3	50	39	p c	p c	2·2
	Hastings	7	48	40	o c	c o r . o	0·4
	Eastbourne	5	49	41	b c g	b r g r	3·0
	Seaford	4	49	34	c . o r	c . o r .	1·0
	Brighton	5	50	41	o	o h r . r . o .	1·0
	Worthing	4	49	40	c	r . c	1·1
	Littlehampton	3	50	45	o b c	o p	1·0
	Bognor	3	52	40	b c . o r	b c . o r	2·4
	Southsea						
	Bournemouth	1	53	41	o d	o d . o	1·1
England, S.W.	Weymouth	-	52	42	o . c	b c . c	0·9
	Torquay	0·3	50	42	o . c p	c . b c p	4·7
	Paignton						
	Penzance	2	52	43	c . b c	b c	9·0
	Newquay	*	48	43	o . c . b c	b	4·8
	Ilfracombe	1	47	40	c p c	o	0·2
	Weston-super-Mare ...	0·3	48	41	c . b c	c p . c	0·5
	Bude	2	51	43	o b . r c	c . b c . o	2·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	82	84	1·1	54	40	35	3	o o p .	b c . o o p	c p . o . b c
City (Bunhill Row)	*	*	1·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	90		53	41	40	4	o d	b c . b p	o p .
Camden Sq. (Brit. Rainfall)	72	82	1·8	54	41	39	5	o	o r . o .	*
Hampstead (Reservoir) ...	*	90	1·6	49	37	33	5	b c . o p	r	o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	1·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	76	81	1·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
822 Joules	16·3 Milliwatts.	81 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	6	48	39	38	o m .	o m r	b c . o r	1·7
Manchester ,,	2	48	42	*	o r . o	o d . c . o	o . c . o	0·1
Birmingham ,,					*			
Oxford to 8 p.m.	*	52	39	38	c . o r . o	o m . c m	o r . c . o r	*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	54	40	38	o p . o	o . c p	b c . o r . c	*

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

20th & 21st April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.40 / 4.43	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

NOTES ON YESTERDAY'S WEATHER.

Steady rain fell on the North-East coast, and elsewhere the weather was showery. A thunderstorm occurred in the afternoon at Clacton. Nine hours of sunshine was measured at Penzance and 8·5 hours at Valencia.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 112

Friday, 21st April,

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud	Weather	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1001·3	43	NE	4	bc.	1001·8	0	40	−2	NE	3	NE	bc	2	–	46	37	bc.	bc.	bc.	*
	Deerness (Orkney)	1000·0	43	NE	4	o	1000·7	*	42	+1	NNE	3	SE	bc	3	–	46	39	c.bc	bc.c.o	o.c bc	1·0
	Stornoway ...	1001·2	44	NE	4	bc	1002·6	+1	40	−3	NE	4	–	c	3	2	50	38	bc	bc.	bc.c.p.	9·8
	Castlebay (Barra Isd.)	999·5	45	NNE	4	c	1001·4	0	42	−1	N	3	N	bc	3	Trace	48	39	bc.c.bc	bc.o.c.	c.op.bc	7·0
	Glasgow ...	998·8	42	NE	1	omr	998·7	+1	40	+1	NE	2	–	o	*	6	45	38	omr.op	op.omr	or.c.op	0·0
	Eskdalemuir ...	998·1	39	NE	4	o	997·5	+2	39	+1	NNE	3	–	o	*	3	44	36	or.or	or.o.	o bc.or	0·0
	Malin Head ...	998·1	44	NNE	2	cg	999·2	+1	43	+2	E	3	E	bc	3	–	46	40	cr	cg.	bc.	1·4
	Blacksod Point	998·5	45	NE	4	bcr	1000·8	+2	40	−1	NE	3	NE	omr	3	13	47	39	bcr	bcr	bc.omr	*
	Valencia ...	997·6	47	NW	2	c	999·5	+1	39	−2	–	0	N	c	3	–	50	36	bc.c	c	c.bc.c	7·7
	Roche's Point	998·5	45	WNW	2	r	999·6	*	43	+1	NW	2	–	o	2	5	54	40	c	c[illegible]	r.c.opm	*
	Birr Castle ...	997·0	46	NE	1	c	1000·0	*	40	+1	NE	1	–	c	*	4	50	37	cph	cph.	c.	4·4
	Donaghadee ...	998·4	44	N	4	omrpq	998·8	+1	42	+2	NE	3	NE	bc	2	1	46	39	omrq	ogmpq	ogmp	*
	Liverpool (Bidston)	998·8	43	W	3	r	999·7	+2	40	0	–	0	–	o	1	3	45	39	c.c	cp	or	0·0
	Holyhead ...	999·9	44	NW	4	cg	997·4	+1	43	+1	N	4	–	omg	3	0·4	46	42	omg	opam	o.c	0·0
	Pembroke (St. Ann's)	998·0	45	N	1	bc	998·1	+1	43	+1	N	1	NE	c	2	1	49	40	bcp	bc.	c.	6·1
	Scilly (St. Mary's)																					
	Falmouth ...	997·1	48	W	1	c	998·4	0	38	−3	WNW	1	–	b	*	6	49	35	r.cp.	cp.o.c.	c.bc.bc.	1·5
	Jersey (St. Aubin)	999·1	49	W	4	b	999·0	*	46	+2	SW	3	–	o	2	Trace	51	43	lp.c	c.b.	b.o	10·5
	Portland Bill ...	999·9	45	WSW	4	bc	997·9	0	46	+3	WNW	1	–	b	2	1	48	43	bc.c	bcp	bc.cp.	*
	Dungeness ...	995·2	47	SW	4	c	998·8	+2	46	+1	SW	3	SW	bc	4	1	50	42	bcqp	bc	bcp.bc	*
	Dover	996·0	45	SW	4	c	999·2	+2	46	+2	SW	3	SW	bc	4	2	49	39	bc.c	cp.r.bc	cp.bc.b	6·8
	Wick	999·8	43	ENE	3	o	1000·4	0	41	−1	NNE	3	NE	c	3	0·3	44	40	odmg	omg	omp.c	*
	Nairn	999·3	43	E	2	cg	1000·7	*	41	+1	NE	2	–	ow	3	4	47	39	d.c	cg	p.r.o	1·2
	Aberdeen ...	997·4	42	NNE	4	o	998·9	+1	40	−1	N	2	–	op	3	6	46	40	or.c.o	or.op.	op.r	0·4
	Leith	995·7	40	NE	2	r	997·9	+1	41	0	NNE	2	–	o	3	4	42	40	r	r	r.cg.o	*
	Tynemouth ...	993·5	42	N	2	omid	995·7	+1	41	0	N	2	–	omr	4	2	46	40	omr	om.	omr	*
	Spurn Head ...	992·6	43	–	c	omw	996·2	+1	43	0	N	2	–	o	3	1	48	39	c.or	om	o	0·0
	Yarmouth ...	994·0	46	WNW	4	c	997·4	+3	41	−1	WSW	3	–	bcm	3	1	47	39	o.cp	cp	cp.bcm	0·0
	Clacton-on-Sea	994·0	46	W	1	c	998·3	+2	45	+6	W	2	–	b	2	–	50	39	cg.c	c	c.cup.c	1·8
	Nottingham ...	992·9	44	WNW	3	r	996·6	*	42	+2	SW	1	–	om	*	4	46	39	omr	r.o.cm	r.o	0·1
	Benson (Oxon.) ...	994·5	46	WSW	3	b	998·1	+2	40	0	SSW	2	–	bc	*	1	51	31	c	p.	bc	·4
	Sth Farnborough	994·7	48	WSW	2	c	998·4	+2	39	−2	WSW	1	–	b	*	0·1	56	32	cp.o	o.c	c.bc.bc	2·9
	London (Kew Obsy.)	995·2	48	SW	3	o	998·6	+2	40	−3	SW	2	–	bmw	*	Trace	51	26	ocl.opd.c	cp.o.	o bmbmw	2·0
NORTHERN EUROPE.	Spitsbergen ...	1017·5	10	–	0	b	1017·5	+1	5	0	ESE	2	*	b	*	*	11	−8				
	Vardö	1016·6	28	–	0	c	1018·3	0	34	+11	S	3	–	c	3	*	28	19				
	Bodö	1006·6	39	E	4	b	1005·7	0	41	+7	E	4	–	bc	2	–	43	32				
	Christiansund	1000·6	46	–	0	b	999·8	0	45	0	SE	1	–	c	2	–	50	39				
	Skudesnaes ..	996·8	45	E	1	o	997·6	0	45	+2	N	1	–	o	2	4	46	39				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	995·8	41	SSE	3	o	999·5	+1	41	0	SE	2	–	o	2	3	43	41				
	Blaavands Huk	995·5	46	S	1	o	998·6	+1	43	0	SW	2	–	o	1	Trace	50	44				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	995·4	45	SW	4	b	997·7	+1	46	+1	SSW	3	–	o	3	4	48	43				
	C. Gris Nez ...	994·7	46	WSW	4	o	998·9	+1	44	−1	WSW	5	*	r	5	4	48	43				
	La Hève	997·3	47	WSW	4	b	1000·4	*	42	+1	SW	4	*	b	3	–	50	41				
	Brest (St. Mathieu)	1000·3	50	W	4	bc	998·1	−1	48	+3	S	2	*	o	3	–	52	46				
	Rochefort (Ile d'Aix)	1004·2	51	WSW	4	o	1001·0	−2	53	+5	SW	5	*	c	*	4	55	46				
	Biarritz	1006·6	54	W	1	o	1002·1	−4	54	+3	SE	2	*	o	4	1	54	50				
	Paris	1000·6	50	SSW	3	b	1003·1	0	41	−2	–	0	–	o	*	Trace	55	34				
	Belfort	1004·8	42	WSW	4	o	1008·4	*	43	+2	WSW	2	*	o	*	3	50	40				
	Lyons	1005·5	54	SW	4	o	1006·9	*	51	+7	–	0	*	c	*	–	61	45				
	Nice	1005·6	54	W	3	c	1007·0	+3	55	+5	–	0	*	o	3	Trace	66	46				
	Perpignan ..	1007·7	55	NE	1	r	1005·9	0	54	+2	E	1	SE	o	*	4	66	48				
	Sanguinaire ...	*	57	N	2	m	*	*	57	+3	ESE	2	*	c	2	–	70	52				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1012·4	57	W	5	o	995·1	−5	55	+1	SW	6	–	o	4	6	59	54				
	Madrid (8 a.m.)	1003·8	66	WNW	3	c	1009·3	+3	48	−11	WSW	3	SW	o	*	?	70	46				
	Lisbon (9 a.m.)	1012·0	57	SW	4	o	1009·3	−2	57	+2	SW	5	–	r	5	3	63	55				
	Gibraltar	1013·9	60	W	6	o	1014·5	*	57	−2	W	4	*	r	3	Trace	68	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1000·2	−3	66	−2	SSE	6	–	o	5	–	77	61				
	Azores (Horta, 8 a.m.)	1014·3	*	WSW	4	bc.	1013·9	0	59	0	–	0	*	o	2	1	66	57				
	Madeira (Funchal)	1018·1	63	W	2	c	1016·6	−1	57	−2	W	2	–	o	2	–	64	57				
YESTERDAY'S REPORTS		...19th....., 8 P.M. G.M.T.					20th April, ..., 7 A.M. G.M.T.															
ITALY.	Venice	999·3	52	–	0	c	1004·1	0	48	−7	NNE	2	*	c	4	Trace	*	*				
	Turin	999·3	55	W	6	b	1003·4	0	45	−1	–	0	*	b	*	–	*	*				
	Viesti	1003·4	55	SW	2	b	1007·4	0	59	−5	SW	2	*	b	1	–	*	*				
	Pesaro	1001·1	55	SW	3	b	1004·0	+5	57	+2	SW	1	*	b	2	–	64	50				
	Leghorn	1002·6	55	W	6	b	1005·2	0	55	0	W	6	*	o	2	–	*	*				
	Rome	1005·5	55	SW	1	o	1008·2	+3	57	+2	SE	1	*	o	*	–	66	55				
	Brindisi	1005·6	57	W	2	b	1009·0	+5	55	+1	SW	1	*	b	2	–	63	52				
	Cagliari	1006·4	68	SE	3	b	1006·9	0	52	−5	NW	4	*	b	3	–	68	48				
	Palermo	1010·7	54	–	0	b	1009·2	0	61	−3	–	0	*	bc	1	–	*	*				

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

5,000 feet	WSW	16 miles per hour
4,000 "	WbyS	14 " " "
3,000 "	WbyS	16 " " "
2,000 "	WSW	16 " " "
1,000 "	W	11 " " "
Surface	WSW	5 " " "

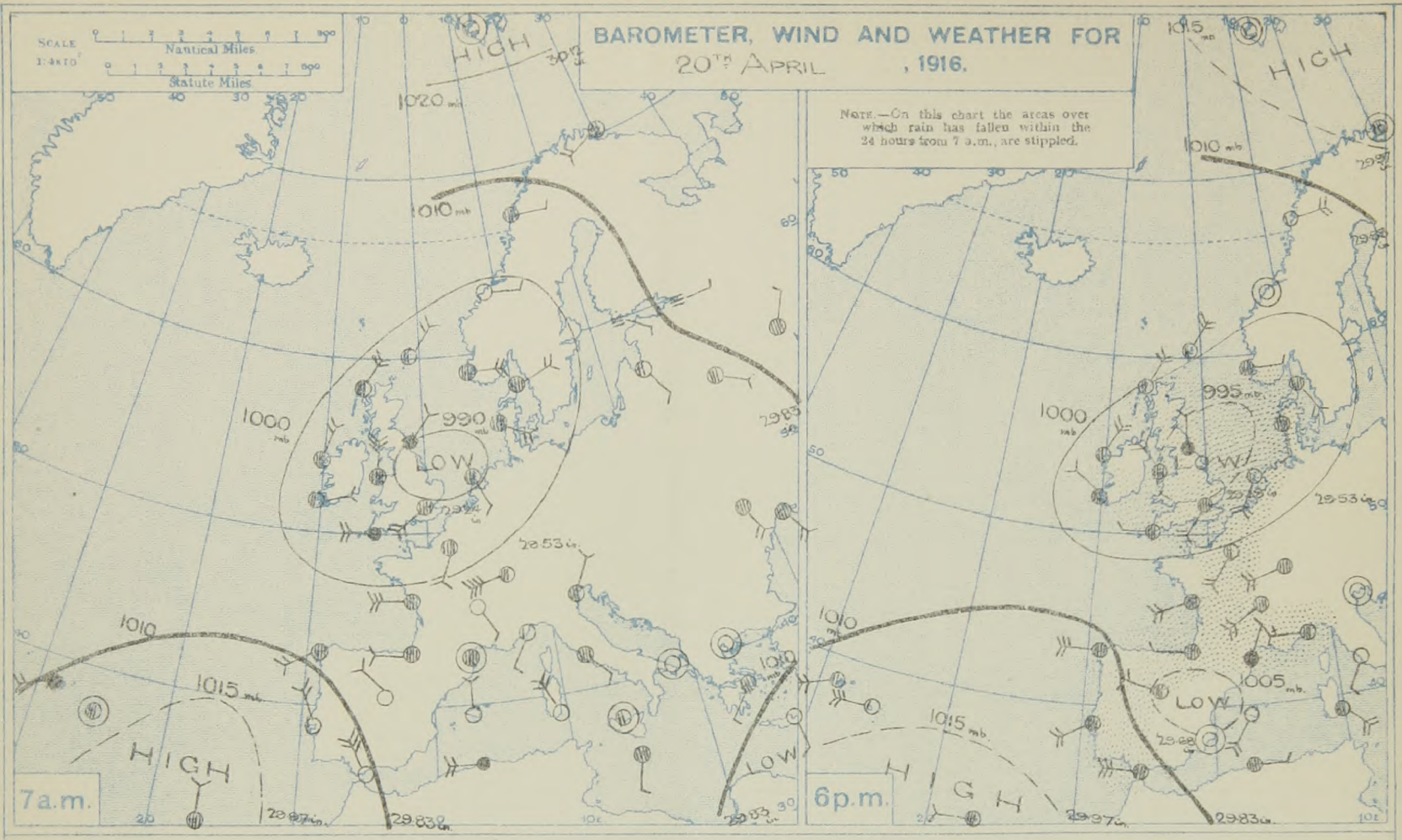
RAINFALL

Equivalents of Millimetres in Inches.

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

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

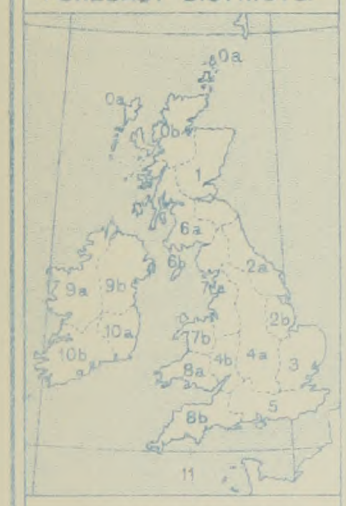
BAROMETER, WIND AND WEATHER FOR 20TH APRIL, 1916.



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

FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 a, b; 1 — Light or moderate winds between North and North-East; fair to dull, with some showers; rather cold.

2 a, b — Light Northerly or variable winds; dull, some showers; cold.

3; 4 a, b; 5 — Light winds between West and South-West, backing later; fair, some showers; becoming milder.

6 a, b — Same as Nos. 0 and 1.

7 a, b — Light or moderate Northerly winds; fair, some showers; rather cold.

8 a, b — Light winds between West and North-West, backing later and freshening from the Southward; fair at first becoming dull, with some rain later; milder.

9 a, b — Light Northerly to variable winds; fair, some showers; becoming rather milder.

10 a, b — Light variable winds freshening from South-East later; fair, becoming dull later with some rain; becoming rather milder.

11 — Light variable winds, freshening from South or South-East later; slight or moderate sea; fair to dull, some rain.

FURTHER OUTLOOK.

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

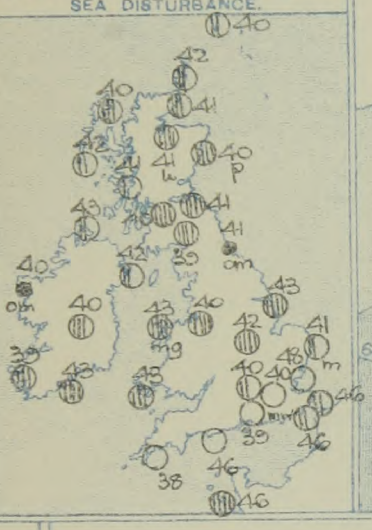
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970 — Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 21ST APRIL, 1916.

GENERAL INFERENCE.

There are indications of the approach of a depression towards the Spanish coast which may cause some backing of the wind in the south of the country to-night or to-morrow

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈

1020mb HIGH 32°
1015mb 40°
1010mb
1005mb
1000mb
1015mb
1010mb
1005mb
1000mb
995mb
1000mb
1010mb
1005mb
1000mb
995mb
990mb
985mb
980mb
Barometer steady
Barometer falling
Barometer steady
Barometer falling
Barometer rising
Barometer rising
Steady
Falling
Falling
Steady
40°
50°
60°
70°
80°
HIGH
LOW
29.97in
29.83in
29.68in
29.53in
29.38in
29.23in
29.08in
29.38in
29.53in
29.68in
29.83in
29.97in

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

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

Issue No. 19,874

DAILY WEATHER REPORT.

Friday, 21st April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	19th at 9 P.M. Local Time. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	20th at 7 A.M. Local Time. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1013·0	32	NW	3	r	.	.	.	.	.	.	*	.	.	.	*	*
Vilikieluki	1006·0	48	-	0	bc	1008·4	?	46	-	-	0	*	c	*	-	*	*
Gorki	1006·6	48	ESE	3	b	1007·3	+4	48	+7	ESE	2	*	c	*	-	*	*
Trango	1005·9	36	ESE	3	o	1006·0	+1	34	+2	ESE	2	*	f	*	20	*	*
Riga	1002·3	46	-	0	o	1003·9	+1	48	+3	SSE	1	*	bc	*	-	*	*
Petrograd	1009·2	34	ENE	3	o	1011·5	+1	34	0	E	3	-	f	*	-	39	30
Moscow	1008·0	45	NNW	1	b	1013·6	+5	37	-6	NNE	1	*	o	*	1	*	34
Kiev	1004·0	52	SE	3	b	.	.	.	.	.	.	*	.	*	.	*	
Kharkov	1006·3	52	SSW	1	bc	1009·2	+1	48	+2	NE	2	*	o	*	-	*	*
Kishinev	1003·7	48	SE	3	b	1001·7	o	48	+5	SSE	3	*	o	*	14	*	45
Elisabetgrad ...	1005·7	46	SSE	1	b	1006·1	o	46	+3	E	1	*	o	*	4	*	41
Nicolaiev	1005·6	50	SW	2	c	1006·8	*	46	o	SSE	3	*	o	o	-	*	41
Odessa	1005·2	48	SSW	3	b	1006·3	o	50	o	NW	8	*	5	o	-	*	46

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	49	36	c	c	1·9
	Banff	8	46	39	o. bc	c. or	0·7
	St. Andrews				*	*	
Eng. N.E.	Harrogate	15	42	37	or. c	or. c	0·1
	Skegness	1	47	36	op	og	0·1
Eng. N.W.	Morecambe	-	48	39	d. c	cp	0·0
	Blackpool						
	Southport	7	45	38	or	odr	0·1
Midlands.	Buxton						
	Leamington Spa	6	47	39	cp	cp	2·2
	Malvern						
	Ross-on-Wye	5	52	36	or. bc	bc	4·3
Wales.	Rhyl	4	44	39	p	op	0·0
	Colwyn Bay						
	Llandudno	8	44	39	c.	cp	0·0
	Aberystwyth	2	45	39	r. o. c	c. o	1·0
	Tenby	2	50	38	bc	bc. c	2·3

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	1	50	40	o. p. c	c. o. p. c	0·6
	Felixstowe	5	50	41	o	o. bc. o	0·8
	Walton-on-Naze	3	?	?	c. b	bc. c	1·5
	Southend-on-Sea	1	52	41	c. g	o. o. bc. b	2·5
England, S.E.	Margate	4	51	41	b. bc	bc. c. p.	5·8
	Ramsgate	4	48	40	bc. p	c. r	6·7
	Hastings	3	50	41	or. bc. b	bc	7·4
	Eastbourne	4	51	43	b. p. bc	b. bc	8·2
	Seaford	2	49	43	c	c	6·1
	Brighton	1	50	43	o. c. o	o. c	4·4
	Worthing	1	51	42	c	c. bc	5·8
	Littlehampton	1	50	43	bc. o	o. bc	4·6
	Bognor	1	50	42	bc	bc	4·6
	Southsea						
	Bournemouth	1	52	40	c	c	5·0
England, S.W.	Weymouth						
	Torquay						
	Paignton	2	53	38	c. p	c	4·5
	Penzance	8	51	41	c. p.	bc	3·0
	Newquay	1	50	40	b	b	6·5
	Ilfracombe	-	48	40	bc. c. b	bc. b	7·4
	Weston-super-Mare ...	4	49	40	b. bc. b	bc. b	4·0
	Bude	1	51	41	c. bc	c. bc	8·7

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	65	69	2·1	33	35	27	-	o.	c.	b
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	62	73	2·1	53	36	31	1	od. o	c. b	b
Camden Sq. (Brit. Rainfall)	58	71	2·7	54	35	31	0·3	o	ox. o	*
Hampstead (Reservoir) ...	*	75	2·9	49	36	24	1	bc. op. h	bc. x	bc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	2·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	60	69	1·8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
739 Joules	14·6 Milliwatts.	81 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	47	39	36	bm. c	c. o. p	c. p. o	*
Darwen to 9 p.m.	15	42	34	33	o. c	or. ur. s	our	0·0
Manchester ,,	11	44	38	*	or. o	o. d	odr. d	0·0
Birmingham ,,	1	47	36	33	*	o	r. c. o	4·1
Oxford to 8 p.m.	*	52	39	38	or	or. bc. u	c. u. p	*
Teignmouth to 9 ,,								
Plymouth ,,	3	51	44	*	c. b. o. p. q	c. b	bc. c. b. q	1·8
S. Kensington (Museum Grounds to 6 p.m.)	2	51	47	40	c. or	o.	o. p. o	*

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

21st & 22nd April 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.45 / 4.43	11.52 / 11.52	6.58 / 7.0
Greenwich	4.55 / 4.53	11.59 / 11.59	7.3 / 7.5
Wick	4.47 / 4.45	12.11 / 12.11	7.34 / 7.36
Valencia	5.35 / 5.33	12.40 / 12.40	7.44 / 7.46

NOTES ON YESTERDAY'S WEATHER.

Weather was showery with general precipitation; and thunder and lightning occurred at Roche's Point in the afternoon. Sunshine measurements were fair in the South of the country and in the Hebrides, slight elsewhere.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 113 (Saturday, 22nd April.)

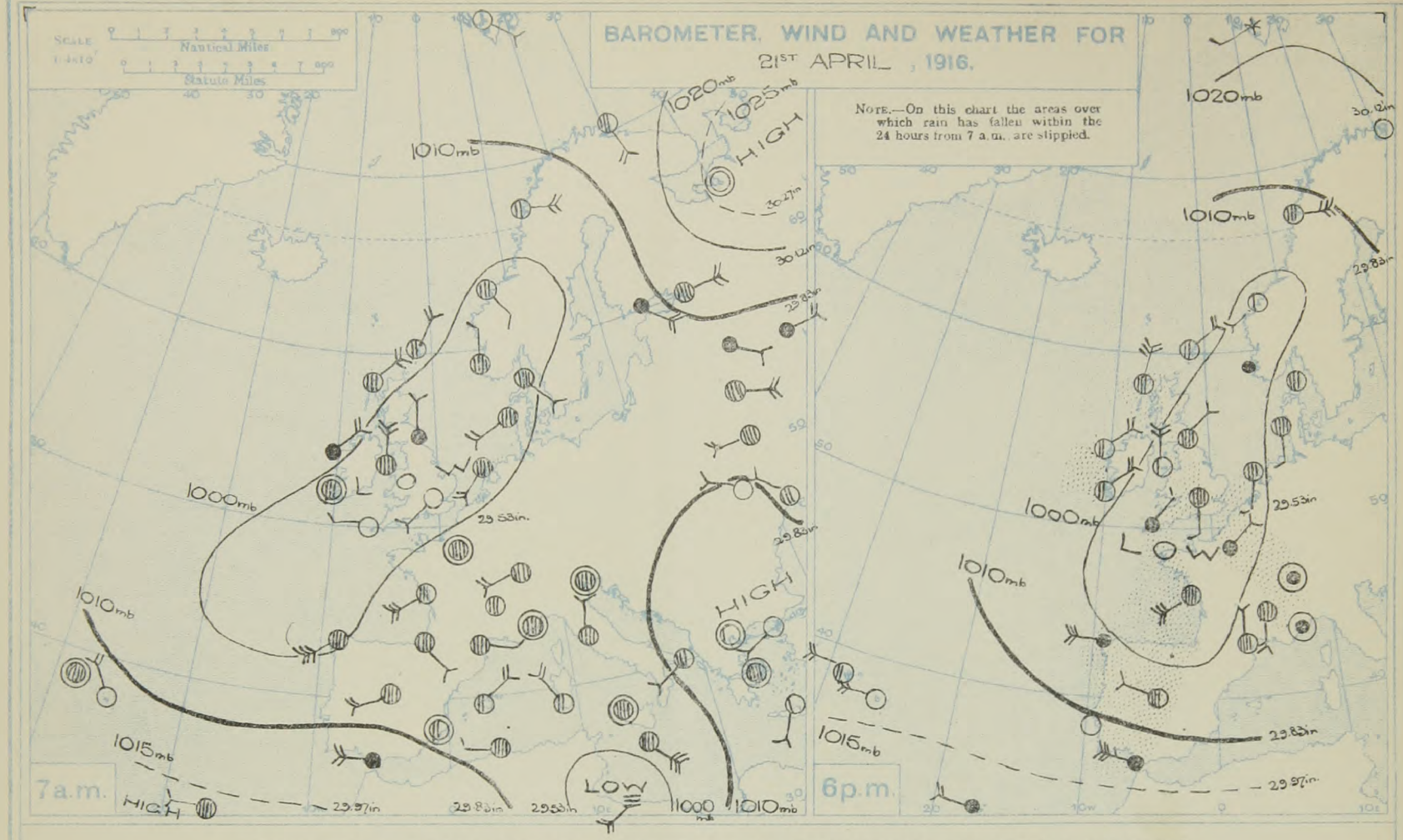
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1001.4	42	NE	3	bc	1000.8	-1	39	-1	S	1	-	b	1	-	46	32	bc	bc	b	*
	Deerness (Orkney)	1001.8	41	N	4	cp	1000.0	*	40	-2	N	1	NW	bc	1	3	46	35	bc.c	cpc	c.bc	6.3
	Stornoway ...	1003.0	43	NNE	3	cq	1000.0	-1	36	-4	N	1	-	c	1	1	46	33	cpq	cq	bc.c	6.0
	Castlebay (Barra Isd.)	1002.1	43	N	4	c	1000.4	-1	41	-1	-	0	-	c	1	-	47	35	bc	c.bc	c.bc	9.0
	Glasgow ...	1005.1	42	ENE	2	ogdp	1000.0	-1	39	-1	ENE	1	S	c	*	2	46	37	op	c.op	opc.ow	0.8
	Eskdalemuir ...	999.1	41	NE	4	ou	1000.2	+1	38	-1	N	1	-	o	*	3	46	36	or.oc	or.cou	odo	2.2
	Malin Head ...	1000.5	45	N	4	bc	1000.9	0	42	-1	NNW	4	N	cq	4	-	47	40	bc	bc	c	12.1
	Blacksod Point	1002.3	43	NE	3	bc	1003.5	0	42	+2	WNW	3	W	bc	3	7	47	38	bcp	bc	cpbcp	*
	Valencia ...	1003.9	48	NE	3	bc	1006.5	+3	43	+4	NW	3	NW	bc	3	2	51	39	c	cv	cp	7.6
	Roche's Point	1006.8	45	NW	3	c	1004.6	*	42	-1	NNW	3	NW	bc	2	4	49	40	opqc	cgpt.c	c bc	*
	Birr Castle ...	999.9	46	SW	1	c	1004.9	*	38	-2	NW	1	-	c	*	2	52	34	cph	cph	c	6.2
	Donaghadee ...	999.4	45	N	4	b	1006.8	+1	40	-2	WNW	3	-	bcm	2	1	48	39	bcm	bc	ompbc	*
	Liverpool (Bidston)	997.3	46	WNW	2	b	999.4	+2	41	+1	N	1	-	o	1	-	48	39	o.bc.b	bc.o	o	8.2
	Holyhead ...	998.4	47	N	4	bz	1000.0	+2	43	0	N	4	-	bcf	3	-	52	42	a.c.bc	bc.b	b.bc.f.e	6.8
	Pembroke (St. Ann's)	998.0	46	N	2	bc	1001.2	+2	43	0	N	3	-	c	2	-	49	43	c.bc	bc	bc	5.1
	Scilly (St. Mary's)																					
	Falmouth ...	996.0	47	NE	1	cpz	1001.0	+6	45	+7	NNW	4	-	c	*	1	52	37	c	b.bc.p.c	bcp.h.c	9.7
	Jersey (St. Aubin)	995.9	46	SSE	3	ozp	997.2	*	47	+1	NW	3	-	oz	3	3	49	43	oz	ozp	ozp	0.0
	Portland Bill ...	996.6	47	SE	1	bc	997.3	+4	44	-2	NNW	4	N	c	3	-	51	41	b.bc	bc	bc.c	*
	Dungeness ...	997.2	46	-	0	c	993.6	-1	46	0	NNE	3	-	r	2	3	51	42	bc	bc	bc.c.or	*
	Dover	997.3	46	-	0	o	994.3	0	43	-3	N	4	N	r	2	3	52	42	bc.r.b	bc.o	o.c.or	5.8
	Wick	1001.6	40	NNE	3	r	1000.4	-1	37	-4	-	0	-	bc	0	trace	45	34	c	c.o.d.	cm	*
	Nairn	1001.0	43	ENE	1	oz	1000.0	*	39	-2	-	0	-	oz	2	4	47	36	c.bc	cg.o	r o	4.8
	Aberdeen ...	1000.8	43	NE	2	c	999.7	0	40	0	NW	2	-	b c	2	2	44	37	or	r.o.c	cp.bc.b	0.2
	Leith	999.4	42	E	2	o	1000.2	+1	40	-1	W	1	-	o	2	2	43	39	o.d.o	o.ce.o	oem.o	*
	Tynemouth ...	997.8	43	NE	2	ogm	999.0	0	40	-1	N	2	-	om	3	3	45	38	o.c.r	ogmp	omr	*
	Spurn Head ...	997.2	45	S	2	o	998.2	0	43	0	ENE	3	-	om.	3	1	48	41	or	bc.o	or	1.2
	Yarmouth ...	997.5	48	SW	2	c	995.6	+1	48	+2	NE	3	-	c	2	-	51	39	bcp	cp	bc.c	5.4
	Clacton-on-Sea	997.0	47	SE	2	o	995.3	0	43	-5	NW	2	NW	o	1	-	51	41	b.bc	bc.c.o	obc.op	7.4
	Nottingham ...	996.8	46	N	2	o	998.4	*	42	0	NNE	2	N	o	*	1	52	40	om.c	cp.g.o	opc.b	1.8
	Benson (Oxon.) ...	996.0	50	S	1	c	997.6	+3	40	0	N	3	-	o	*	0.1	53	35	bc	bc	bc.o	*
	Sth Farnborough	993.8	50	S.SE	2	o	996.4	+3	40	+1	NNW	3	-	orr	*	trace	55	38	b.bc.o	o	o.bc.om	5.4
	London (Kew Obsy.)	996.2	53	S	2	o	996.5	+3	41	+1	NNE	3	-	om	*	0.1	52	40	3mw.b.z.q	o	o.orm	6.8
NORTHERN EUROPE.	Spitsbergen ...	1021.1	14	-	0	s	1024.4	+2	16	+11	SSE	1	*	c	*	*	18	-22				
	Vardo	1014.7	36	-	0	b	1018.6	+2	37	+3	SE	4	-	o	2	*	36	19				
	Bodö	1005.3	45	E	5	c	1002.4	-1	45	+4	E	2	-	bc	2	-	48	41				
	Christiansund	999.8	45	SW	2	b	998.9	0	43	-2	SW	3	-	o	3	-	45	27				
	Skudesnaes ..	999.9	41	-	0	r	995.1	0	41	0	-	0	-	b	2	9	46	39				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1000.3	43	-	0	c	1000.7	0	43	+2	SSE	1	-	o	2	-	46	41				
	Blaavands Huk	1000.2	45	S	2	o	998.1	-1	43	0	SE	2	-	o	1	-	48	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	998.9	46	S	1	c	995.3	0	46	0	NE	2	-	o	1	1	50	45				
	C. Gris Nez ...	997.8	46	SSW	2	c	993.7	-2	43	-1	NE	4	*	r	4	5	52	43				
	La Hève	995.5	45	E	2	f	992.3	*	42	0	NNE	4	*	r	3	-	50	39				
	Brest (St. Mathieu)	995.3	50	N	2	o	1001.6	+4	46	-2	NNW	5	*	c	4	1	59	41				
	Rochefort (Ile d'Aix)	998.3	55	SW	5	o	999.3	+3	50	-3	WNW	5	*	c	*	4	63	46				
	Biarritz	999.4	54	SW	3	r	1003.7	+4	50	-4	W	5	*	r	5	12	66	46				
	Paris	995.1	46	ENE	2	o	993.6	+3	46	+5	SW	3	-	o	*	16	52	41				
	Belfort	1002.6	55	-	0	r	997.5	*	50	+7	E	4	*	o	*	6	61	43				
	Lyons	1000.7	59	S	3	o	996.4	*	55	+4	S	4	*	o	*	-	59	50				
	Nice	1007.0	50	-	0	r	1008.1	0	50	-5	-	0	*	r	2	9	59	48				
	Perpignan ...	1000.4	57	N	2	o	1000.2	+5	50	-4	NW	4	-	o	*	-	64	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1002.6	50	W	5	r	1011.9	+3	52	-3	NNW	4	N	bc	4	7	57	46				
	Madrid (8 a.m.)	1004.7	55	WNW	2	c	1010.3	+3	45	-3	NW	3	-	b	*	8	59	41				
	Lisbon (9 a.m.)																					
	Gibraltar	1014.9	58	W	7	r	1013.9	*	60	+3	W	6	*	bc	3	6	66	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1008.7	+4	61	-5	WNW	4	-	b	2	-	73	59				
	Azores (Horta, 8 a.m.)	1014.6	*	W	4	bc							*									
	Madeira (Funchal)	1017.2	63	W	3	r	1019.7	+1	67	0	N	2	-	b	2	1	64	57				
YESTERDAY'S REPORTS		...29th..., 8 P.M. G.M.T.					April 21 st..., 7 A.M. G.M.T.															
ITALY.	Venice	1007.3	55	-	0	b	1008.4	+2	54	+6	-	0	*	o	3	-	*	*				
	Turin	1004.2	58	-	0	b	1007.9	+1	50	+5	-	0	*	o	*	-	*	*				
	Viesti	1006.2	59	S	3	b	1007.9	0	61	+2	SE	2	*	o	3	-	*	*				
	Pesaro	1008.3	57	SSW	2	b	1008.9	+2	57	0	SSW	2	*	c	2	-	*	*				
	Leghorn	1009.4	59	-	0	b	1009.0	+2	57	+2	-	0	*	o	3	-	*	*				
	Rome	1010.4	57	SW	2	b	1008.1	-	55	-2	N	2	*	o	*	-	*	*				
	Brindisi	1010.9	59	NW	2	b	1010.9	-	55	0	SW	2	*	c	3	-	*	*				
	Cagliari	1007.7	66	SE	4	c	1005.0	0	59	+7	NW	4	*	bc	4	2	*	*				
	Palermo	1009.8	59	-	0	b	1003.6	-3	55	-6	-	0	*	o	2	Trace.	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 {a, b} 1 — Light variable winds, becoming Westerly; fair, showery; remaining rather cold.

2 {a, b} — Moderate Northerly winds, backing North Westerly; fair, showery; cold.

3, 4 {a, b}, 5 — Moderate Northerly winds, freshening a little and backing North-Westerly; fair or dull with some rain, then improving; cold.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b}, 8 {a, b}, 9 {a, b}, 10 {a, b} — Moderate or fresh North-Westerly winds, decreasing later; fair, some showers; cold.

Western Channel and Bay 11 — Fresh North-Westerly winds, decreasing later moderate sea; fair, some showers.

FURTHER OUTLOOK.

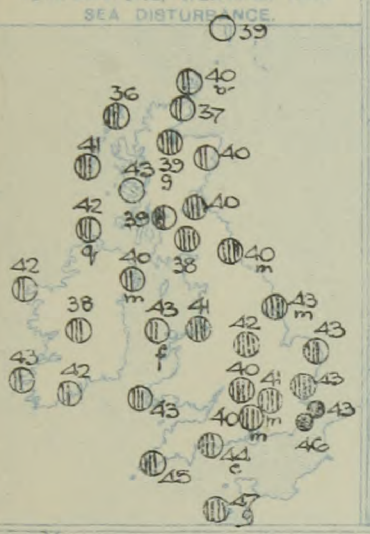
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 22ND APRIL, 1916.

GENERAL INFERENCE.

The depression over North-East France will pass away Eastward and an anticyclone will spread in over the South-West of the country from the Atlantic.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

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

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

HIGH

1025mb

1020mb

1015mb

1010mb

1005mb

1000mb

995mb

1005mb

1010mb

1015mb

30.27in

30.12in

29.97in

29.88in

29.68in

29.53in

29.38in

29.53in

29.68in

29.88in

29.97in

LOW

Barometer slightly falling

Barometer rising

40°

50°

HIGH

Issue No. 1987[illegible]. **DAILY WEATHER REPORT.** Saturday, 22nd April, **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	20th, AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	21st, AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	.	.	.	.	1025·9	×	28	.	–	0	*	b	*	–	*	21
Gorki	.	.	.	.	.	1005·5	−4	45	−1	ESE	4	*	o	*	–	*	36
Vilikieluki	.	.	.	.	.	1004·6	*	46	−2	SE	2	*	r		1	*	45
Hango	1006·9	41	–	0	0	1005·1	−1	41	+7	ESE	4	*	r	0	9	*	32
Riga	1003·7	50	ESE	1	0	1002·7	0	48	0	ESE	1	*	o	*	2	*	43
Petrograd	1012·7	52	E	3	bc	1011·0	−1	43	+9	E	4	–	o	*	–	57	34
Moscow	1013·1	50	NE	3	o	1004·8	−6	43	+8	E	3	*	r	*	6	*	41
Kiev	1004·6	50	SE	2	o	1003·8	0	46	.	W	3	*	o	*	2	*	46
Kharkov	1008·7	50	S	1	r	1008·2	0	36	−12	SSW	2	*	f	*	6	*	36
Kishinev	1005·5	54	NE	1	c	1012·0	+4	36	−12	NW	2	*	b	*	–	*	36
Elisabetgrad ...	1005·3	48	SSE	1	b	1006·9	+2	48	+2	WSW	3	*	bc	*	–	*	41
Nicolaiev	1006·9	50	SW	2	bc	1008·8	*	48	+2	NW	2	*	c	o	37	*	48
Odessa	1005·6	54	SW	5	b	1012·0	+5	48	−2	N	3	*	b	o	1	*	45

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

	STATIONS.	Rainfall.	Temperature. Max	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	49	38	bc	o	5·0
	Banff	10	45	39	od	c. bc. c	0·4
	St. Andrews	5	43	39	*	*	0·0
Eng. N.E.	Harrogate	–	49	38	o.c.bc	bc . c	4·1
	Skegness	3	49	40	o, bc	bc fr	3·1
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	1	49	39	c. bc. b	b. bc. b	3·3
Midlands	Buxton						
	Leamington Spa	2	54	40	c. bc	c op	2·1
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	–	48	41	c	bc b	9·0
	Colwyn Bay	–	49	42	bc	bc	5·5
	Llandudno	0·3	48	42	c	b	5·7
	Aberystwyth	6	48	40	r. o.c	b. bc	7·0
	Tenby						
England. E.	Lowestoft	4	50	38	b. bc	bc	8·3
	Felixstowe	1	49	37	b	bc. c	7·4
	Walton-on-Naze	0·3	53	39	b. bc c:o	o. c. bc. b.	5·4
	Southend-on-Sea						
England. S.E.	Margate	1	52	39	bc	c	4·2
	Ramsgate	0·3	50	37	bc p	c r	5·1
	Hastings	2	50	41	or. bc	c. o	2·3
	Eastbourne	4	49	43	bc	o	1·1
	Seaford						
	Brighton						
	Worthing	–	52	36	bc	bc d	5·1
	Littlehampton						
	Bognor	–	51	39	bc	bc	5·5
	Southsea						
	Bournemouth	–	53	31	b	b	11·0
England. S.W.	Weymouth						
	Torquay	–	52	33	b	b.	12·4
	Paignton						
	Penzance	–	53	35	b. bc	bc. c	11·0
	Newquay	*	50	32	b	b	11·9
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	–	52	31	b	b	10·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 9 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	56	89	6·1	56	39	32	–	b	b. c. o	o
City (Bunhill Row)	*	*	5·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	57	86		56	42	39	2	b	bcm. o	om
Camden Sq. (Brit. Rainfall)	–	87	5·2	58	41	37	2	–	–	*
Hampstead (Reservoir) ...	*	89	8·0	54	38	29	0·3	bc. o	o	o
Richmond Park ...	*	*	5·8							
Kew. (See front page.)	*	*	6·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	51	80	6·8							

Vertical Component of Solar Radiation per square centimetre during Yesterday.	Total. Joules	Average Rate. Milliwatts.	Max. Rate. Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	–	50	35	35	o. c	o c. b	bc .	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	56	37	28	o.c.bc.b	bc.c.o	o.	*

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

22nd & 23rd April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. 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	7.8 7.6
Wick	4·45 4·43	12·11 12.10	7·36 7·38
Valencia	5·33 6·31	12.40 13.39	7.46 7.48

NOTES ON YESTERDAY'S WEATHER.

Weather continued showery in many parts, but rainfall measurements were not large. 12·1 hours of sunshine were recorded at Malin Head. Temperature did not rise much above 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.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 114

Sunday, 23rd April.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	999.4	42	S	2	bc	997.6	-1	42	+3	SSW	2	SW	bc	2	2	46	36	bc	bc	bcp	*
	Deerness (Orkney)	997.6	38	SW	1	oe	995.6	*	43	+3	ENE	5	S	bc	5	3	45	36	bc c or	r. o	o. c	1.5
	Stornoway ...	995.0	43	SSW	5	opq	994.7	+2	34	-2	SW	4	-	bcq	4	7	47	34	bc	bc. opq	bcpq	7.8
	Castlebay (Barra Isd.)	996.3	44	SW	3	b	996.8	+1	41	0	WSW	4	-	b	4	3	46	35	c.o.bc	bc. o.b	b. opp.b	6.1
	Glasgow ...	1000.0	46	WSW	2	bc	1001.4	+1	43	+4	SW	4	w	c	*	2	49	38	oup c	c. bc	cgp.cp	4.5
	Eskdalemuir ...	1000.8	45	WSW	4	b	1003.3	+1	41	+3	SSW	5	-	o d m	*	2	50	39	o	c.bc. b	bc odm	5.1
	Malin Head ...	999.1	44	W	4	bcq	1000.8	+2	43	+1	SW	4	w	bcq	3	2	49	38	bc	bcqp	bcqp	8.4
	Blacksod Point	1001.9	45	W	4	bcp	1003.0	+1	43	+1	W	3	w	cmr	3	5	48	40	bcp	bcp	cm. cmp	*
	Valencia ...	1008.0	47	WSW	4	o	1009.0	+1	46	+3	SW	3	w	c	4	1	50	43	bc.c bc	bc. c. o	op. op	8.6
	Roche's Point	1008.7	50	NW	3	bc	1010.3	*	46	+4	W	2	w	c	2	0.2	53	42	bc. c. o	o c. c. bc	bc. bw	*
	Birr Castle ...	1004.9	46	W	2	c	1007.2	*	45	+7	SW	2	-	c	*	0.3	50	38	c	cp	cp	10.2
	Donaghadee ...	1001.3	47	W	4	bc	1003.6	+1	44	+4	WSW	4	W	cmp	3	0.4	49	39	bcp	bcp	bcmp	*
	Liverpool (Bidston)	1003.9	46	W	3	b	?	+3	44	+3	SSW	2	W	o	2	-	48	40	c. bc	b	bc. o	8.9
	Holyhead ...	1004.4	46	SW	5	bq	1007.4	+2	45	+2	SW	5	-	oq. q	4	0.2	51	44	bc. b	b	b bcp. o	11.0
	Pembroke (St. Ann's)	1005.2	46	W	4	bc	1011.5	+2	46	+3	WSW	4	NW	bc	3	-	49	46	bc	bc	bc	7.1
	Scilly (St. Mary's)																					
	Falmouth ...	1009.0	47	WNW	3	b	1014.6	+4	47	+2	W	1	-	c	*	1	51	41	b.	bc. b	bp bcp	11.8
	Jersey (St. Aubin)	1005.8	51	WNW	4	b	1016.4	*	49	+2	W	3	W	b	3	0.1	54	44	oq. c. b	b	b. op. b	8.3
	Portland Bill ...	1005.0	49	NNW	3	bc	?	+4	47	+3	W	4	W	bc	3	-	52	44	bcm	bc	b. bc	*
	Dungeness ...	1002.4	47	NE	2	c	1013.6	+5	44	-2	WNW	2	NW	b	2	1.0	47	35	or	or. c	c. bc. b	*
	Dover	1002.6	44	NNW	4	b	1013.6	?	47	+4	W	3	-	b	4	1.1	47	36	op r	op r	b. bc. b	0.0
	Wick	998.2	39	SSE	1	bc	996.5	0	41	+4	S	4	-	bc	4	1	44	35	bcm. op	pd. o. c	bcu	*
	Nairn	997.4	48	-	0	bc	997.2	*	42	+3	SSW	2	-	bc	2	1	49	33	dq. c	c. bc	q. bc	3.8
	Aberdeen ...	996.0	39	-	0	b	1000.0	0	40	0	SSW	3	SW	bc	2	1	49	36	bc. c	bc. op. b	bc	5.3
	Leith	1000.0	48	W	1	bc	1001.3	0	42	+2	SW	2	SW	c	3	1	56	39	o. cp. c	b	bc opc	*
	Tynemouth ...	1000.9	43	SE	2	cmd	1005.4	+2	44	+4	SW	3	W	bcm	3	1	47	40	bcm	bcmp	bcm	*
	Spurn Head ...	1002.1	45	NE	1	bcv	1009.2	+1	44	+1	W	3	-	bc	3	-	49	40	om. c	bc. v	b	5.3
	Yarmouth ...	1001.0	45	NNE	3	c	1011.2	+4	39	-4	W	2	-	bm	2	-	46	36	cm	cm	bm	0.0
	Clacton-on-Sea	1002.0	45	NW	3	o	1012.3	+6	42	-1	WNW	3	NW	bc	2	-	47	37	og	og. c	c. bc	0.0
	Nottingham ...	1002.9	49	WNW	3	c	1010.1	*	42	0	SW	2	SW	b	*	0.1	50	33	opm	o. c	r. b	2.4
	Benson (Oxon.) ...	1005.5	49	NW	2	o	1012.4	+5	44	+4	SW	4	-	b	*	-	51	31	o	bc	bc. b	*
	Sth Farnborough	1003.3	48	N	3	bc	1013.0	+4	44	+4	SW	3	-	bw	*	-	51	33	o	o. c. o	oc. obm	1.0
	London (Kew Obsy.)	1003.6	49	N	1	bz	1013.6	+3	42	+1	SW	2	W	b	*	-	50	36	om. cz	cz. oz. bz	bz. o. b	0.6
NORTHERN EUROPE.	Spitsbergen ...	1024.6	7	SSE	1	b	1014.6	-5	23	+7	E	4	*	S	*	*	23	3				
	Vardö	1026.4	34	SE	2	o	1017.5	+2	37	0	SE	2	-	o	3	*	37	32				
	Bodö	1012.2	43	E	1	c	1007.0	+3	43	-2				b	0	-	46	39				
	Christiansund	1001.2	43	-	0	o	1002.7	0	43	0	SSE	2	-	b	3	-	43	37				
	Skudesnaes ..	999.0	43	-	0	o	1003.1	+3	41	0	SE	4	-	m	2	2	45	39				
	Færder (Tania Fjord)																					
	The Scaw (Skagen)	998.9	41	NE	3	o	1002.3	+5	43	0	N	2	-	m	2	3	45	41				
	Blaavands Huk	997.9	45	ENE	1	o	1004.8	+4	43	0	N	3	-	o	2	-	46	41				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	998.4	45	NNW	4	r	1010.1	+7	45	-1	W	2	-	b	1	3	48	43				
	C. Gris Nez ...	1002.1	44	N	3	o	1012.4	0	44	+1	WNW	4	*	b	3	15	45	39				
	La Hève	1004.8	46	NW	4	m	1015.5	*	45	+3	WSW	3	*	b	3	14	50	41				
	Brest (St. Mathieu)	1011.3	48	NW	5	bc	1018.1	+3	50	+4	W	4	*	c	3	-	52	41				
	Rochefort (Ile d'Aix)	1009.5	52	NW	6	o	1020.6	+4	49	-1	NNW	3	*	bc	*	-	55	46				
	Biarritz	1014.0	49	NW	4	tlr	1021.5	+4	50	0	WNW	4	*	o	4	5	52	46				
	Paris	1002.3	43	W	4	r	1015.5	+5	45	-1	NW	2	-	b	*	4	50	39				
	Belfort	1003.9	41	WSW	5	o	1014.3	*	39	-11	WSW	6	*	r	*	4	54	38				
	Lyons	1006.4	43	SE	1	r	1015.4	*	44	-11	NNW	3	*	o	*	10	55	40				
	Nice	1001.1	50	WSW	4	c	1003.4	+4	51	+1	-	0	*	c	3	7	54	43				
	Perpignan ..	1009.0	50	WNW	3	o	1017.5	+5	50	0	NW	4	NW	bc	*	1	59	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019.0	54	N	5	b	1025.0	+2	48	-4	SSE	1	-	b	2	1	55	45				
	Madrid (8 a.m.)	1013.3	52	NW	4	o	1023.9	+3	48	+3	-	0	-	b	*	-	55	39				
	Lisbon (7 a.m.)	1020.4	54	NNW	4	b	1024.4	+1	50	-2	N	1	-	b	5	-	59	48				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1015.0	+4	61	0	NNW	3	-	o	2	-	68	55				
	Azores (Horta, 8 a.m.)	1011.5	*	SSW	6	m	1006.0	.0	62	+1	SSW	7	*	o	4	1	64	61				
	Madeira (Funchal)	1021.1	65	N	2	o	1021.2	0	61	+4	E	2	-	o	2	7	66	57				
YESTERDAY'S REPORTS		...21st..., 8 P.M. G.M.T.					...22nd..., 7 A.M. G.M.T.															
ITALY.	Venice	1007.1	57	ENE	2	o	1002.0	0	59	+5	-	0	*	c	3	1	*	*				
	Turin	1006.2	52	-	0	r	1002.2	0	50	0	-	0	*	r	*	14	*	*				
	Viesti	1005.2	61	SSW	2	o	1002.4	0	61	0	SSW	2	*	bc	4	-	*	*				
	Pesaro	1005.3	57	E	2	bc	1002.4	0	59	+2	-	0	*	f	2	-	*	*				
	Leghorn	1006.7	61	NW	2	b	1004.3	0	61	+4	-	0	*	o	4	-	*	*				
	Rome	1003.4	64	-	0	o	1003.3	0	59	+4	SW	2	*	o	*	-	*	*				
	Brindisi	1004.4	63	SW	5	o	1001.3	-1	59	+4	WNW	2	*	b	3	-	*	*				
	Cagliari	1005.5	72	W	4	c	1006.4	0	54	-2	NW	4	*	c	3	-	*	*				
	Palermo	1002.7	64	-	0	o	1007.6	0	66	+11	S	4	*	b	1	-	*	*				

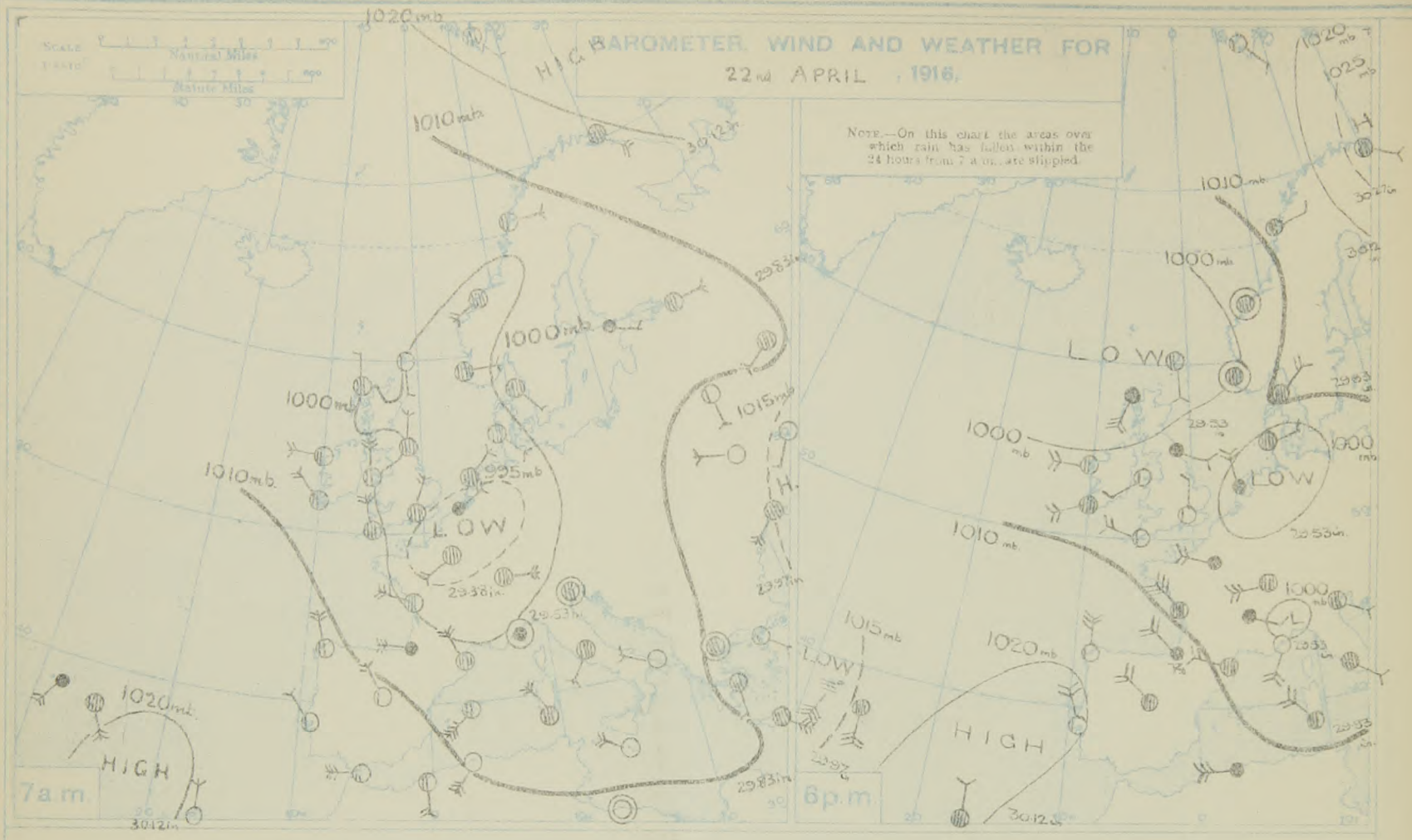
RAINFALL

Equivalents of Millimetres in Inches.

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

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

BAROMETER, WIND AND WEATHER FOR 22nd APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b 1	Moderate or fresh Westerly or South-Westerly winds; fair, some showers; normal temperature.
2 a, b 3 4 a, b 5	Light or moderate winds between West and South-West; fair weather; milder.
6 a, b 7 a, b	Moderate or fresh South-Westerly to Westerly winds; cloudy and showery; normal temperature.
8 a, b	Same as Nos. 2b to 5.
9 a, b 10 a, b	Moderate winds between West and South-West; fair, showery; normal temperature.
Western Channel and Bay 11	Light or moderate Westerly or South Westerly winds; slight sea; fair weather.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 23RD APRIL, 1916.

GENERAL INFERENCE.

Between the influence of the anticyclone over the Bay and the depression north-west of Scotland a general Westerly current is likely to persist over the country.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~, High ≈≈≈.

Scale 1:12·10°
Nautical Miles 0 1 2 3 4 5 600
Statute Miles 0 1 2 3 4 5 600

Normal Temperature of the Sea

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

Scale of Tints for APRIL.

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

Barometer rising

LOW

Bar. falling slightly

Barometer generally rising

LOW

HIGH

LOW

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

Issue No. _____

DAILY WEATHER REPORT.

Sunday, 23rd April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	21st.—AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	22nd.—AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel												*				*	
Vilikie Juki	1003·4	46	SE	3	o	1006·7	x	43	-2	SSW	3	*	o	*	3	*	41
Gorki	1004·2	43	SE	1	o	1010·1	+5	41	-5	S	2	*	b	*	8	*	36
Hangö	1002·7	37	ESE	5	o	1002·7	+2	36	-5	ESE	1	*	r	*	3	*	34
Riga	1000·7	45	WSW	2	r	1006·6	+5	44	-7	WNW	2	*	o	*	19	*	41
Petrograd	1004·2	37	E	3	r	1004·3	+2	41	-2	E	2	3	c	*	4	50	36
Moscow	1007·0	43	SE	2	o	1007·5	+1	45	o	WSW	3	*	o	*	1	*	43
Kiev	1010·3	52	WNW	4	b	1013·2	o	46	o	WNW	2	*	b	*	3	*	43
Kharkov	1012·0	52	WSW	2	o	1015·7	o	?	.	SW	1	*	b	*	1	*	43
Kishinev	1013·6	59	S	2	b	1013·9	+1	50	+14	S	1	*	bc	*	–	*	45
Elisabetgrad ...	1013·9	48	–	o	b	1014·9	o	48	+10	SSE	2	*	o	*	–	*	45
Nicolaiev	1015·7	54	S	3	b	1017·1	*	52	+4	S	3	*	b	*	–	*	46
Odessa	1014·9	52	SW	5	b	1015·1	o	52	+4	SW	4	*	o	o	–	*	50

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	8	46	36	bc	o	6·2
	Banff	3	46	38	bc	or.c.bc	4·7
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	48	39	c.bc	cp.bc.b	4·2
	Skegness	3	46	41	o.bc	bc.	4·4
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	–	48	40	o.c.bc.b	b	7·7
Midlands	Buxton						
	Leamington Spa	–	51	30	c	c	1·8
	Malvern						
	Ross-on-Wye	2	52	31	bc	or.bc.	3·6
Wales.	Rhyl	–					9·1
	Colwyn Bay						
	Llandudno		48	41			
	Aberystwyth	•	48	36	o.c.b	b.bc.	9·0
	Tenby	–	53	36	b	bc	9·7
England, E.	Lowestoft						
	Felixstowe	0·2	47	40	o	o.bc.	0·2
	Walton-on-Naze	1	46	40	od.o.c	o.c.bc.m	0·0
	Southend-on-Sea	–	49	41	o	o.c.bc.	0·3
England, S.E.	Margate	8	46	43	or	or	0·0
	Ramsgate	8	44	41	or	or	0·0
	Hastings	6	48	41	or	o.bc.	0·3
	Eastbourne	3	51	42	om	m	0·0
	Seaford	2	50	42	r.o	c	0·1
	Brighton						
	Worthing	–	51	41	bc	bc.	0·7
	Littlehampton	–	51	45	o	bc.o.	1·0
	Bognor	–	54	40	bc	bc	1·6
	Southsea						
	Bournemouth	0·3	55	38	c	c	5·3
England, S.W.	Weymouth						
	Torquay						
	Paignton	–	55	40	bc	bc	12·1
	Penzance	–	53	44	b.bc	bc.	12·0
	Newquay	*					
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	–	52	44	c.bc.b	b	9·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	70	70	0·0	53	35	28	–	o	o	o.bc.b
City (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	69	69	0·1	51	35	31	-	om	om	bou
Camden Sq. (Brit. Rainfall)	–	69	0·7	54	36	31	Trace	-	-	*
Hampstead (Reservoir) ...	*	71	0·9	49	34	24	-	o.bcx	bc	bc
Richmond Park ...	*	*	0·4							
Kew. (See front page.)	*	*	0·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	56	0·1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
597 Joules	11·7 Milliwatts.	47 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	–	53	37	34	c.b	bc	c.b	*
Darwen to 9 p.m.	0·1	49	37	30	bc.og	ogr	bc	4·5
Manchester ,,	Trace	50	40	*	om	m.o.c	bc.c.bcm	3·4
Birmingham ,,	0·2	50	37	31	o	o	o.c	0·7
Oxford to 8 p.m.	*	51	38	34	c	c.o.c	o.o.c	*
Teignmouth to 9 ,,								
Plymouth ,,	1	53	35	-	bcq.or	bcq	b.bcq	9·1
S. Kensington (Museum Grounds to 6 p.m.)	2	50	42	36	o.or.o	o.c.o	o.bc	*

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

23rd. & 24th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.41 / 4.39	11.51 / 11.61	7.1 / 7.2
Greenwich	4.51 / 4.49	11.58 / 11.58	7.6 / 7.7
Wick	4.13 / 4.11	12.19 / 12.10	7.38 / 7.40
Valencia	5.31 / 5.29	12.39 / 12.36	7.48 / 7.50

PILOT BALLOON ASCENTS for the PAST WEEK

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

STATION. Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Height in Kilometres														

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 115.

Monday, 24th April,

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rain-fall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1000·5	40	SSW	4	c	1006·0	-1	45	+3	S	5	-	omr	4	2	45	38	bcp.o	cp	bcgp	*
	Deerness (Orkney)	1000·7	44	SW	5	bc	999·6	*	44	+1	SE	7	-	cep.	5	3	46	40	cp bc	bc cp	bc.cep.c	?
	Stornoway ...	999·7	45	WSW	7	bcq	991·5	-9	45	+11	SSE	6	-	orq	5	16	47	34	bcpq	bcq	bc.orq	9·2
	Castlebay (Barra Isd.)	1002·5	46	SW	5	bc	999·9	-3	48	+7	SSE	6	-	r	6	7	48	39	b.hp.bc	bch.bc	bc.cpq	7·2
	Glasgow ...	1006·3	46	SW	3	c	1002·0	-5	45	+2	S	5	-	ogr	*	4	51	42	c	cqp.	cp.cq.r	5·3.
	Eskdalemuir ...	1008·9	45	S	5	o	1006·4	-2	42	+1	SSE	5	-	err	*	10	48	40	cdrp.o	c.o.	od.or	1·8
	Malin Head ..	1004·9	48	WSW	3	bc	993·5	0	50	+7	SW	6	SW	cmq	6	2	50	50	bcq	bcq.	cmq	5·8
	Blacksod Point	1003·1	45	SW	5	omr	994·3	+5	51	+8	SSW	6	SW	omr	6	11	52	43	bq	bcm	omr	*
	Valencia ...	1006·6	47	SSE	4	r	1000·8	+2	53	+7	S	6	-	o	5	27	54	46	c.b	o.or	r.o.ep	1·6
	Roche's Point	1012·3	49	W	3	o	1005·4	*	49	+3	SSW	5	-	o	5	16	52	44	bc.c.o	o	r om	*
	Birr Castle ...	1008·3	49	SW	2	c	1000·9	*	54	+9	S	5	S	c	*	10	54	43	cp	cp	orq, c	4·8.
	Donaghadee ...	1007·5	53	WSW	5	bc	1001·1	-2	47	+3	SSW	6	-	omq	5	3	55	44	*	cmpq	omqp.	*
	Liverpool (Bidston)	1012·3	52	SW	4	b	1010·2	-1	48	+4	SSW	3	S	o	3	-	55	44	bc	bc	c.o.	7·4
	Holyhead ...	1011·1	48	SW	6	cgq	1006·8	-1	47	+2	S	6	-	spdfq	6	3	52	45	c.bcq	c.bc.c.	od.r.pd	6·4
	Pembroke (St. Ann's)	1014·6	49	WSW	4	c	1018·3	0	47	+1	SSW	6	-	cqr	5	5	50	46	bc	bc.	cq,r	5·1
	Scilly (St. Mary's)																					
	Falmouth ...	1017·2	50	SW	4	bc	1014·4	-1	48	+1	S	5	-	odq	*	2	55	46	cq.bcq	bcq.bc	c.b od.r	7·8
	Jersey (St. Aubin)	1019·7	52	W	3	c	1020·7	*	48	-1	S	4	-	odp	3	-	56	46	bc.b.	bc	o.b.o	9·2
	Portland Bill ...	1017·5	48	WSW	5	bc	1018·5	0	48	+1	SSW	5	S	c	4	-	49	46	bc	c.bc.	c.bc.	*
	Dungeness ...	1017·9	49	SW	3	bc	1020·5	0	48	+4	SSW	3	S	c	4	-	53	43	b.bc	bc.	bc	*
	Dover	1017·8	49	SW	4	b	1021·7	+1	47	0	S	4	S	o	4	-	54	43	b	bc.c.b	b.bc.o	11·0
	Wick	1001·2	44	SSW	4	bc	999·5	-7	45	+4	SSE	5	-	o	5	2	49	40	bcp	bcp	bc.omp	*
	Nairn	1003·2	45	WSW	1	c	997·8	*	49	+7	SW	4	-	c	3	1	50	39	phq.bc	pq.bc.c	cq.bc	10·1
	Aberdeen ...	1005·2	50	SW	2	c	1001·5	-4	44	+4	SSE	5	-	r	4	3	53	39	bc.c	cp.bc.	bc.orq	7·8
	Leith	1005·2	51	SW	2	c	1003·1	-4	47	+5	S	2	-	o	3	0·3	55	42	b	c.bcp.c	c.bq.p.o	*
	Tynemouth ...	1009·6	53	SW	4	bcmq	1009·5	-3	46	+2	S	4	-	cmq	3	-	52	44	cmq	bcm.	cmq	*
	Spurn Head ...	1012·9	53	WSW	4	c	1016·0	0	45	+1	S	4	-	o	4	-	56	40	bc.o	o.c	bc	6·5
	Yarmouth ...	1015·8	56	W	3	bc	1020·3	+3	47	+8	SW	4	-	bcm	3	-	58	38	bc	bc.	bm.bcm	10·5
	Clacton-on-Sea	1016·5	50	SSW	4	bc	1020·8	+2	47	+5	S	3	SW	c	3	-	58	41	bc	bc.c.bc	bc.c.o.c	8·9
	Nottingham ...	1014·2	52	SW	2	c	1015·2	*	47	+5	SSW	4	SW	r	*	0·4	57	41	bc	c	c.b.	7·3
	Benson (Oxon.) ...	1016·3	51	SW	1	bc	1018·1	+1	46	+2	S	5	-	o	*	-	56	41	c	bc.	bc.o.	*
	Sth Farnborough	1016·4	54	SW	3	c	1018·9	+1	48	+4	S	4	-	ow	*	Trace	59	43	b.op.c	p.o.c	c.b.o	8·2
	London (Kew Obsy.)	1016·9	54	SW	2	b	1019·9	+2	48	+6	SSW	4	-	o	*	Trace	56	41	bcp.bcw	bcw.p.b	b.bc.o	6·4
NORTHERN EUROPE.	Spitsbergen ...	1008·6	23	-	0	S	1006·3	-1	22	0	-	0	*	o	*	*	28	18				
	Vardö	1021·5	27	-	0	o	1016·2	-5	39	+2	SSE	3	-	o	1	*	37	34				
	Bodö	1005·5	43	SE	5	c	1013·3	0	43	0	S	3	-	c	2	3	48	37				
	Christiansund	1005·7	45	-	0	c	1012·8	+2	48	+5	-	0	-	c	2	-	54	41				
	Skudesnaes ..	1011·0	43	SSE	4	c	1016·2	+2	43	+2	ESE	6	-	o	4	-	45	39				
	Færder (Xtania Fjord)																					
	The Skaw (Skagen)	1013·5	43	W	2	c	1021·9	+3	43	0	WSW	1	-	m	1	1	46	36				
	Blaavands Huk	1016·0	45	W	2	b	1023·0	+3	45	+2	SSW	1	-	b	2	-	46	41				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1017·9	48	SSW	2	b	1022·4	+2	46	+1	S	4	-	bc	2	-	50	41				
	C. Gris Nez ...	1017·0	48	NNW	4	b	1021·0	+2	46	+2	SSE	3	*	o	2	-	52	43				
	La Hève	1019·5	51	WNW	1	b	1021·9	*	46	+1	SSW	3	*	bc	2	-	54	45				
	Brest (St. Mathieu)	1020·7	51	SW	3	o	1019·0	0	50	0	S	5	*	r	4	1	55	50				
	Rochefort (Ile d'Aix)	1023·3	52	WNW	5	c	1024·0	0	48	-1	SSE	3	*	c	*	-	57	45				
	Biarritz	1024·3	55	NW	2	bc	1022·4	0	47	+3	SE	3	*	bc	2	-	59	41				
	Paris	1020·6	52	-	0	bc	1024·0	+2	46	+1	-	0	-	b	*	-	59	37				
	Belfort	1019·8	46	NW	4	c	1024·8	*	43	+4	-	0	*	m	*	?	48	36				
	Lyons	1020·7	42	N	3	r	1022·4	*	44	0	NNW	5	*	b	*	2	52	39				
	Nice	1008·6	51	-	0	c	1014·3	+4	53	+2	-	0	*	b	3	-	61	43				
	Perpignan ..	1020·2	54	WNW	4	b	1021·6	-1	54	+4	NW	3	-	b	*	-	59	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·4	55	NW	4	bc	1021·9	-1	52	+4	NNE	1	-	b	1	-	55	41				
	Madrid (8 a.m.)	1021·1	59	W	1	b	1023·8	+1	50	+2	-	0	-	b	*	-	66	41				
	Lisbon (9 a.m.)	1022·0	61	WSW	2	b	1020·7	0	52	+2	N	2	-	b	5	-	64	50				
	Gibraltar	1022·3	60	SE	3	b	1020·3	*	58		E	4	*	b	1	4	67	51				
	Malta (8 a.m.) ...	*	*	*	*	*	1018·9	+2	57	-4	NW	4	-	b	3	1	63	54				
	Azores (Horta, 8 a.m.)	1001·7	*	SSW	8	m.	1001·0	+2	60	-2	WSW	9	*	c	6	2	64	57				
	Madeira (Funchal)	1019·9	61	ESE	2	o	1019·3	0	57	-4	ESE	2	-	o	2	-	63	55				
YESTERDAY'S REPORTS		..22nd. .., 8 P.M. G.M.T.					..23rd. April., 7 A.M. G.M.T.															
ITALY.	Venice	1001·7	57	SE	2	c	1002·2	0	57	-2	-	0	*	o	3	24	*	*				
	Turin	998·4	48	-	0	b	1004·4	0	48	-2	-	0	*	o	*	8	*	*				
	Viesti	1003·6	61	-	0	b	1006·4	0	61	0	SSW	4	*	o	3	-	*	*				
	Pesaro	1003·7	59	-	0	b	1002·4	0	57	-2	E	2	*	o	4	9	*	*				
	Leghorn	1004·1	61	-	0	o	1004·2	0	55	-6	W	2	*	c	4	13	*	*				
	Rome	1005·2	61	SE	2	o	1006·4	0	54	-5	S	2	*	r	*	18	*	*				
	Brindisi	1007·1	59	SSW	2	o	1009·3	0	59	0	SW	2	*	b	3	14	*	*				
	Cagliari	1008·0	66	NW	4	c	1006·4	0	52	-5	NW	4	*	c	3	-	*	*				
	Palermo	1010·2	64	SSW	2	b	1013·9	0	57	-9	SSW	2	*	o	5	2	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 12 noon 24th inst.

5000 feet	SW by S	40 miles per hour
4000 "	SW by S	38 " " "
3000 "	SW by S	31 " " "
2000 "	SW by S	31 " " "
1000 "	SSW	24 " " "
Surface	SSW	20 " " "

GALES
Duration and Extreme Force in British Islands.

Blacksod Point
23rd 7 p.m. – 24th 6 a.m. SSW 8
Ex. SSW to from 10 p.m. – 6 a.m.
Ex. SSW 11 at 11 p.m.

Aberdeen
24th 7 a.m. Gusts. SSE 17 m.p.s.

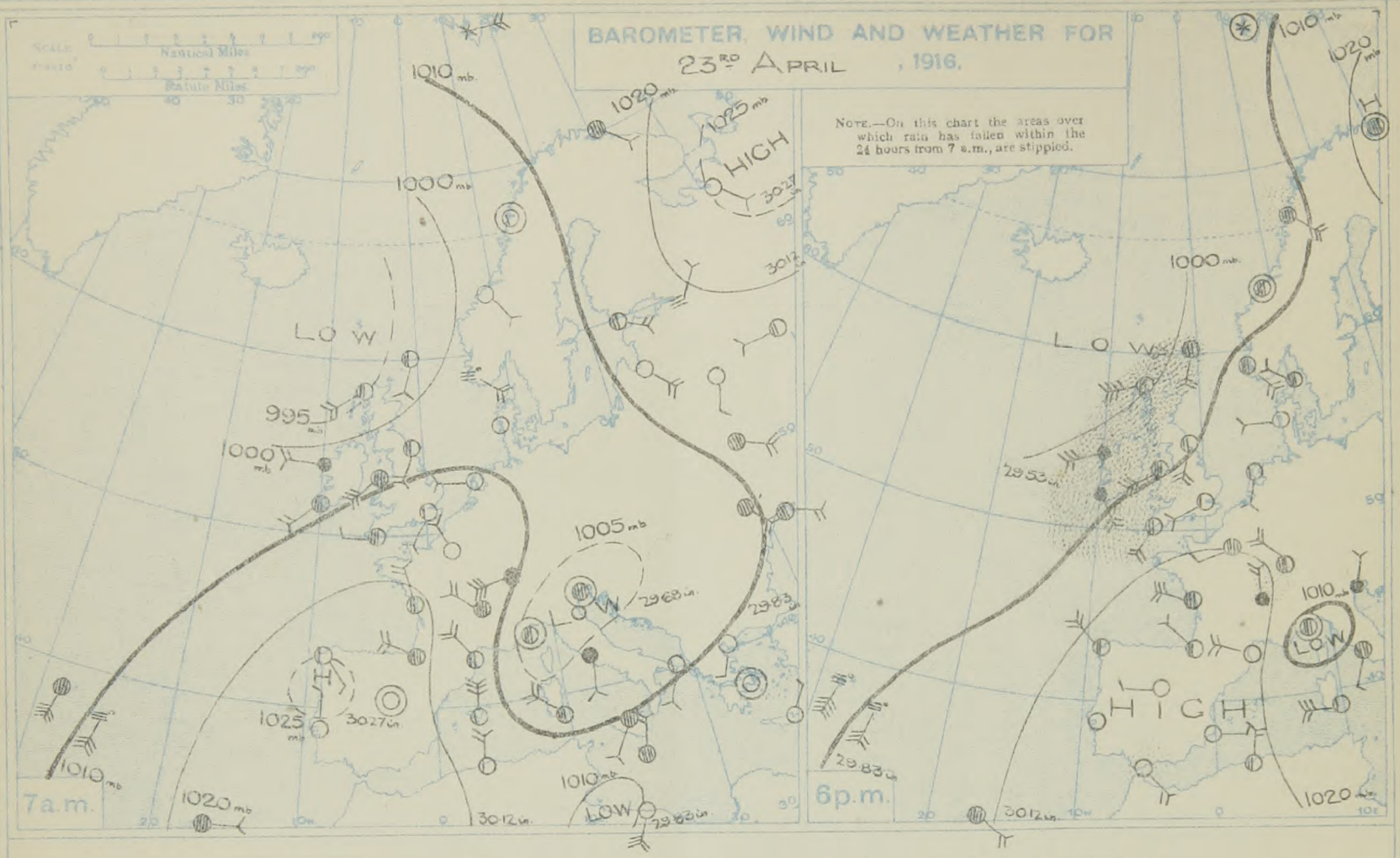
—

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

BAROMETER, WIND AND WEATHER FOR 23RD APRIL, 1916.

Scale of Charts: Nautical Miles / Statute Miles

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

Cones Hoisted at 2 45 a.m.

0 (a, b), 1, 2 (a, b) — Gales from between South and South West; dull, rainy; normal temperature.

3, 4 (a, b), 5 — Strong or high South-Westerly or Southerly winds; dull, occasional rain; normal temperature.

6 (a, b), 7 (a, b), 8 (a, b), 9 (a, b), 10 (a, b) — Same as Nos. 0 to 2.

Western Channel and Bay 11 — Strong winds or gales from between South and South-West, and rough sea; dull, occasional rain.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

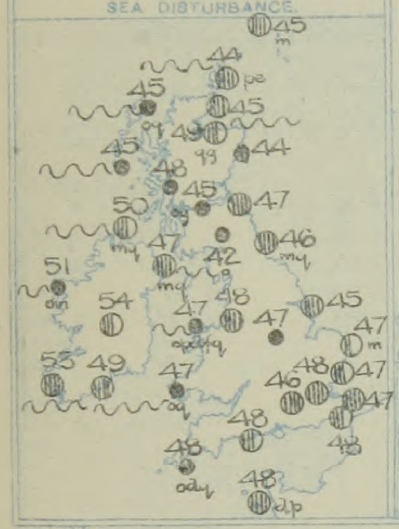
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

SYNOPTIC CHART FOR 7 a.m., MONDAY, 24TH APRIL, 1916.

GENERAL INFERENCE.

The depression off the west of Scotland will pass north-eastward, but secondaries are likely to cause a continuance of unsettled weather over the United Kingdom.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

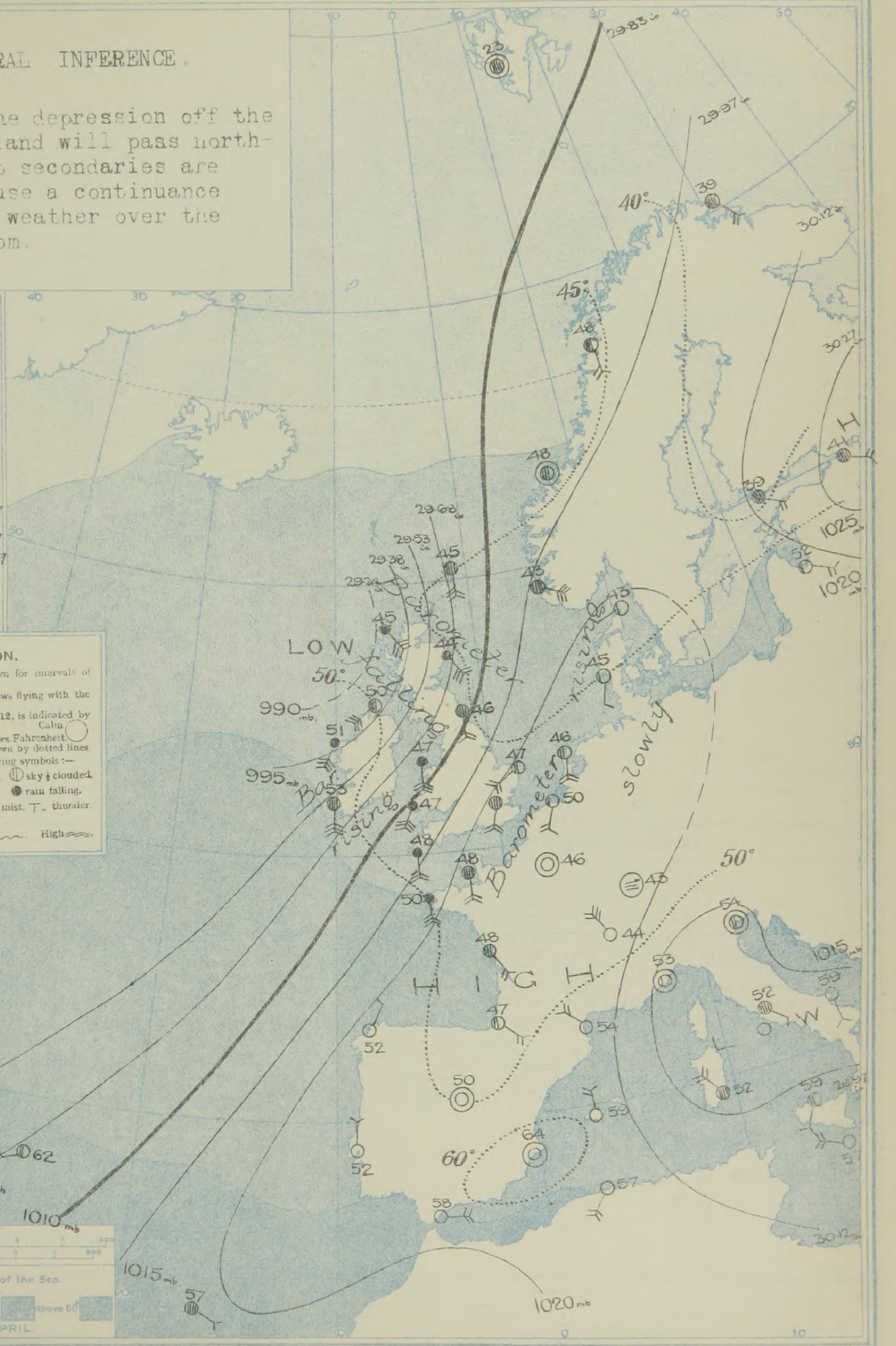
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1:7 x 10^6
Nautical Miles 0 100 200 300
Statute Miles 0 100 200 300

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



Issue No. 19,877

DAILY WEATHER REPORT.

Monday, 24th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	22nd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	23rd AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.					‡	°F.	F.								
Mesenj						1025·3	*	37	-	SSE	2	*	b	-	-	*	32
Velikieluki												*		*		*	*
Gorki						1015·8	+4	45	+4	SSW	1	*	b	-	-	*	*
Hangö	1012·4	32	SW	1	c	1015·5	+2	34	-2	ESE	3	*	bc	-	2	*	*
Riga	1006·4	28	-	0	b	1015·9	+2	46	+5	SE	4	*	b	-	-	*	*
Petrograd	1012·4	48	ENE	3	o	1019·7	+4	36	-5	NE	2	-	f	*	-	54	36
Moscow	1011·4	46	WSW	1	b	1015·5	+4	39	-6	W	2	*	bc	*	-	*	37
Kiev	1012·6	59	E	3	o	1011·8	+2	52	+6	SE	4	*	?	*	1	*	46
Kharkov	1016·4	55	ENE	2	c	1016·6	+1	52	+2	E	1	*	o	*	-	*	*
Kishinev	1011·0	59	SE	3	o	1008·4	-1	54	+4	SE	4	*	o	*	-	*	50
Elisabetgrad ...	1015·1	55	SSE	2	r	1013·9	0	52	+4	ESE	2	*	o	*	1	*	46
Nicolaiev	1015·4	57	SSW	2	c	1012·4	*	63	+11	ESE	3	*	c	o	-	*	50
Odessa	1013·1	54	SSW	5	o	1011·4	+2	52	0	SSE	2	*	o	o	-	*	52

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	8	47	36	p	c	4·5
	Banff	-	53	35	bc	bc	8·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	55	35	bc.c	c b bc	4·7
	Skegness	-	56	33	b.bc	bc.o	7·0
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	55	42	c.o.c.bc	c.o.c.bc	5·0
Midlands.	Buxton	-	52	35	bc	bc	5·8
	Leamington Spa	-	55	35	c.bc	c.bc	6·5
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	55	41	bc	bc	4·7
	Colwyn Bay	-	56	43	bc	b.bc	8·5
	Llandudno	-	53	44	b	bc.b	6·6
	Aberystwyth	-	49	44	o.c	c bc	7·5
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	-	59	35	bc	bc.c	9·4
	Felixstowe	-	57	36	b.bc	bc	8·9
	Walton-on-Naze	-	56	36	b	b.bc.c bc	8·8
	Southend-on-Sea	-	57	39	b.bc	b.bc.c.o	8·0
England. S.E.	Margate	-	49	41	b	c.bc.c	9·4
	Ramsgate	2	58	35	bc	bc	9·1
	Hastings	-	53	39	b.bc	b	12·5
	Eastbourne	-	53	40	b	b	12·2
	Seaford	-	52	39	b	b	12·4
	Brighton						
	Worthing	-	58	39	bc	b	12·5
	Littlehampton	-	52	45	b	c	11·8
	Bognor	-	54	39	bc	bc	10·6
	Southsea						
	Bournemouth	-	57	38	c	c	6·0
England. S.W.	Weymouth						
	Torquay	-	55	40	b.bc	bc.c.o	5·5
	Paignton						
	Penzance						
	Newquay	*	54	45	bc	bc	6·1
	Ilfracombe						
	Weston-super-Mare ...	-	52	42	c.bc b	c.bc.b	3·0
	Bude	-	56	45	o c	bc b	5·1

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 0 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 a.m. To-day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	67	71	6·9	59	42	35	-	b.c	c	c.b.o
City (Bunhill Row)	*	*	8·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	64	70	7·3	56	44	40	-	bc u	um.bc	o
Camden Sq. (Brit. Rainfall)	-	66	8·7	59	44	39	Trace	-	-	*
Hampstead (Reservoir) ...	*	71	9·0	56	42	32	-	b	c	c.o
Richmond Park ...	*	*	7·5							
Kew. (See front page.)	*	*	6·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	64	6·8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1247 Joules	24·3 Milliwatts.	71 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	57	42	40	bc	eq	pb	*
Darwen to 9 p.m.	0·3	53	36	30	bc op	ou.b	bc.op	3·3
Manchester ,,	-	56	37	*	bcw.cg	cg.a.c	c.abc	4·4
Birmingham ,,	-	55	35	30	*	c	c	5·6
Oxford to 8 p.m.	*	56	34	28	bc.b.c	cp.c	c	*
Teignmouth to 9 ,,								
Plymouth ,,	-	53	38	-	cbq.b	c.bvq	c.bvq	1·4
S. Kensington (Museum Grounds to 6 p.m.)	Trace	58	34	28	bc	c.o	c	*

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

24th–25th April, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·39 4·37	11·51 11·51	7·23 7·45
Greenwich	4·49 4·47	11·58 11·58	7·73 7·93
Wick	3·41 3·38	12·10 12·10	7·40 7·42
Valencia	5·29 5·29	12·39 12·39	7·50 7·52

NOTES ON YESTERDAY'S WEATHER.

The day was bright in most parts, but a good deal of rain fell in the night in the West and North West of the country, up to 27 mm. at Valencia. Temperature rose to almost 60° in the South-East.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 116

Tuesday, 25th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1001·1	47	S	6	m	1010·3	+2	43	-2	SSW	3	-	o	3	3	47	41	omfq	om	o	*
	Deerness (Orkney)	1000·3	47	S	7	oq	1011·2	*	43	-1	SSW	3	-	o	3	3	50	42	op.c	cp.o	o	1·5
	Stornoway ...	1000·4	49	SW	6	bcq	1011·5	+3	42	-3	WSW	2	-	o	2	2	58	40	or.bcq	bcq	bc.o	5·9
	Castlebay (Barra Isd.)	1004·7	46	WSW	4	o	1011·7	+3	44	-4	-	o	-	o	1	-	49	42	r.o	o bc o	c	3·4
	Glasgow ...	1006·6	50	SW	4	omq	1011·5	+5	45	0	SW	2	-	omd	*	12	53	45	omqp	omqdp	omd	0·0
	Eskdalemuir ...	1009·2	47	SSW	6	omd	1013·4	+4	49	+5	SSW	7	-	or	*	29	48	41	or	omr	omr	0·0
	Malin Head ...	1005·5	46	WNW	3	cg	1012·6	+3	37	-13	NE	2	-	or	2	17	50	37	bm	cg	bmr	0·2
	Blacksod Point																					*
	Valencia ...	1004·3	52	SSE	4	r	1010·1	+5	48	-5	W	1	-	omd	3	33	55	46	omd	bmr	r.o	0·0
	Roche's Point	1009·3	49	S	4	r	1012·9	*	49	0	SSW	4	-	fr	5	19	51	49	fd	fd	fd	*
	Birr Castle ...	1006·3	53	S	1	r	1011·9	*	45	-9	NW	1	-	r	*	12	54	45	c.op	or	or	0·9
	Donaghadee ...	1007·7	52	SSW	4	ogmp	1011·4	+3	43	-4	SSW	3	-	bmr	3	12	57	41	cmq	cmqp	ogmr	*
	Liverpool (Bidston)	1013·2	55	S	2	o	1017·3	+5	53	+5	SSW	3	S	bc	2	-	59	48	o	c.o	o c.	0 0
	Holyhead ...	1010·5	49	SSW	6	ogmd	1015·0	+3	48	+1	S	5	-	ogm	5	3	49	47	ogdq	ogmd	ogmd	0·0
	Pembroke (St. Ann's)	1013·4	48	SW	4	fp	1017·2	+2	48	+1	SW	4	-	o	5	2	48	42	mr f	fp	oq	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	1016·2	50	S	5	r	1019·0	+3	49	+1	SSE	2	-	c	*	6	51	48	beq	beq rq	bd.o.c	0·0
	Jersey (St. Aubin)	1021·0	54	S	3	c	1022·2	*	52	+4	S	3	-	b	3	Trace	59	47	odp.o.c	o.bc	b	2·3
	Portland Bill ...	1019·6	49	S	3	o	1021·0	+1	49	+1	S	2	-	bc	4	Trace	50	47	c.o	o	opd.bc	*
	Dungeness ...	1021·8	? 50	SW	3	c	1022·5	o	49	+1	SSE	3	S	bc	4	-	52	47	bc.o	o bc.	b bcw	*
	Dover	1022·7	49	SW	3	cw	1024·0	+1	52	+5	SSW	4	-	b	3	0·2	52	46	c.bc.c	c.bc.c	c.bc.b	1·6
	Wick	1002·1	48	SSW	2	r	1012·4	+4	42	-3	WSW	1	-	r	2	4	50	40	omq	omqr	or.p	*
	Nairn	1002·5	54	SW	5	cpq	1012·3	*	40	-9	-	o	-	od	1	3	61	38	bcq c	eqd.bc	cpq	0·1
	Aberdeen ...	1005·3	52	S	5	o	1012·7	+4	42	-2	N	1	-	od	3	4	54	42	omq c.o	opq	c.or	0·2
	Leith	1005·5	55	SW	3	c	1011·0	+2	53	+6	SW	2	-	o	3	0·1	58	47	o.cq c	cqp.c	c.oq.c	*
	Tynemouth ...	1010·9	55	SSW	5	cmq	1015·3	+7	53	+7	SSW	4	-	omq	3	-	55	45	bcmq	bcmq	omq	*
	Spurn Head ...	1017·0	53	SSW	5	cq	1020·9	+1	49	+4	SSW	6	-	oq,p	6	0·2	56	42	or cq	cq	c.oq	0·1
	Yarmouth ...	1020·7	52	S	5	bc	1023·5	+2	44	+2	SW	3	-	bc	3	-	54	46	c	bc.	bc.	3·0
	Clacton-on-Sea	1021·3	50	S	4	c	1023·9	+2	49	+2	S	3	W	bc	2	-	53	46	c.o	op.c	c.bc	2·1
	Nottingham ...	1017·2	52	SSW	4	o	1020·2	*	51	+4	S	2	S	c	*	3	55	47	r.o	o	o	0·0
	Benson (Oxon.) ...	1019·3	50	S	4	o	1021·8	+3	50	+4	S	2	-	bc	*	2	53	46	r	c	o.b	*
	Sth Farnborough	1020·3	52	S	5	o	1021·7	+1	49	+1	SSE	3	SW	c	*	-	59	44	or.o	o	o bc o	0·0
	London (Kew Obsy.)	1021·0	55	SSW	4	o	1022·8	+1	51	+3	SSE	2	S	om	*	-	55	45	o.op.c	o op.o	o.c.om	0·3
NORTHERN EUROPE.	Spitsbergen ...	1001·7	23	E	8	s	1001·2	+1	0	-23	E	7	*	o	*	*	23	0				
	Vardö	1019·4	36	SW	3	b	1020·2	0	36	-3	SW	7	-	b	3	*	41	34				
	Bodö	1018·4	45	E	1	b	1013·3	-1	48	+5	E	3	-	bc	2	-	48	41				
	Christiansund	? 1013·6	52	-	0	c	1011·9	0	57	+9	SW	3	-	c	2	-	57	48				
	Skudesnaes ..	1018·0	41	SE	6	m	1019·9	0	45	+2	ESE	8	-	r	4	1	46	43				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1025·2	45	N	1	bc	1028·7	+3	46	+3	S	1	-	b	1	-	50	41				
	Blaavands Huk	1025·3	48	S	1	b	1027·4	+2	48	+3	S	2	-	b	2	-	50	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1023·5	52	SSE	1	c	1025·5	0	54	+8	S	2	N	b	1	-	55	43				
	C. Gris Nez ...	1022·9	51	SSW	2	c	1024·0	+1	54	+8	S	4	*	b	2	-	54	46				
	La Hève	1021·2	57	S	2	b	1023·5	*	51	+5	SE	2	*	b	1	-	57	46				
	Brest (St. Mathieu)	1020·4	53	S	5	bc	1020·3	0	48	-2	SE	3	*	a	5	-	54	48				
	Rochefort (Ile d'Aix)	1022·3	55	NW	3	b	1021·5	0	50	+2	ESE	3	*	b	*	-	66	46				
	Biarritz	1019·7	58	NE	2	b	1018·1	-1	52	+5	E	2	*	b	2	-	68	48				
	Paris	1023·5	59	-	0	c	1024·4	0	46	0	-	0	-	b	*	-	64	39				
	Belfort	1024·8	50	E	5	m	1024·2	*	46	+3	ENE	7	*	m	*	-	55	38				
	Lyons	1021·1	56	NNW	3	b	1022·0	*	47	+3	N	1	*	b	*	-	60	43				
	Nice	1016·2	52	-	0	b	1018·6	+2	55	+2	-	0	*	b	1	-	63	45				
	Perpignan ..	1019·3	63	NW	3	b	1019·1	0	57	+3	-	0	-	b	*	-	70	46				
	Sanguinaire ...	*	60	S	4	b	*	*	57		SE	2	*	bc	3	-	66	57				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·0	55	N	4	b	1018·4	+1	54	+2	S	1	SW	m	1	-	57	46				
	Madrid (8 a.m.)	1018·0	68	-	0	b	1019·4	+1	55	+5	-	0	-	b	*	-	70	46				
	Lisbon (9 a.m.)	1017·2	70	SW	3	b	1016·8	0	59	+7	NW	1	-	b	2	-	73	52				
	Gibraltar	1019·3	59	SE	4	b	1017·9	*	52	-6	E	4	*	m	1	-	67	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1016·3	0	57	0	WNW	3	-	c	1	6	63	52				
	Azores (Horta, 8 a.m.)	1003·8	*	SSW	7	m	1013·1	+3	55	-5	-	0	*	b	2	1	64	54				
	Madeira (Funchal)	1017·6	61	NE	2	o	1018·1	0	55	-2	NE	2	-	bc	2	-	63	55				
YESTERDAY'S REPORTS		...22nd..., 8 P.M. G.M.T.					24th April..., 7 A.M. G.M.T.															
ITALY.	Venice	1011·0	50	NNE	2	r	1014·4	0	54	-3	-	0	*	bc	4	13	*	*				
	Turin	1010·7	54	-	0	b	1016·3	0	50	+2	-	0	*	b	*	-	*	*				
	Viareggio	1008·7	57	W	2	b	1018·2	0	59	-2	S	2	*	b	3	-	*	*				
	Pesaro	1010·9	48	SW	1	b	1015·0	+3	48	-9	-	0	*	o	3	3	66	43				
	Leghorn	1008·2	54	W	2	b	1012·6	0	52	-3	E	2	*	b	5	-	*	*				
	Rome	1011·9	52	SW	1	o	1012·0	+1	52	-2	SE	1	*	o	*	14	64	50				
	Brindisi	1013·2	61	NW	1	o	1013·7	0	55	-4	NW	1	*	b	3	Trace	61	50				
	Cagliari	1014·4	68	WNW	5	b	1014·4	0	52	0	NW	4	*	o	3	-	72	46				
	Palermo	1017·3	55	W	2	b	1016·4	0	59	+2	SW	2	*	bc	3	1	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7 A.M. yesterday

5,000 feet	S by W	29 miles per hour
4,000 "	SSW	29 " " "
3,000 "	SSW	34 " " "
2,000 "	SW by S	36 " " "
1,000 "	SSW	25 " " "
Surface	S by E	10 " " "

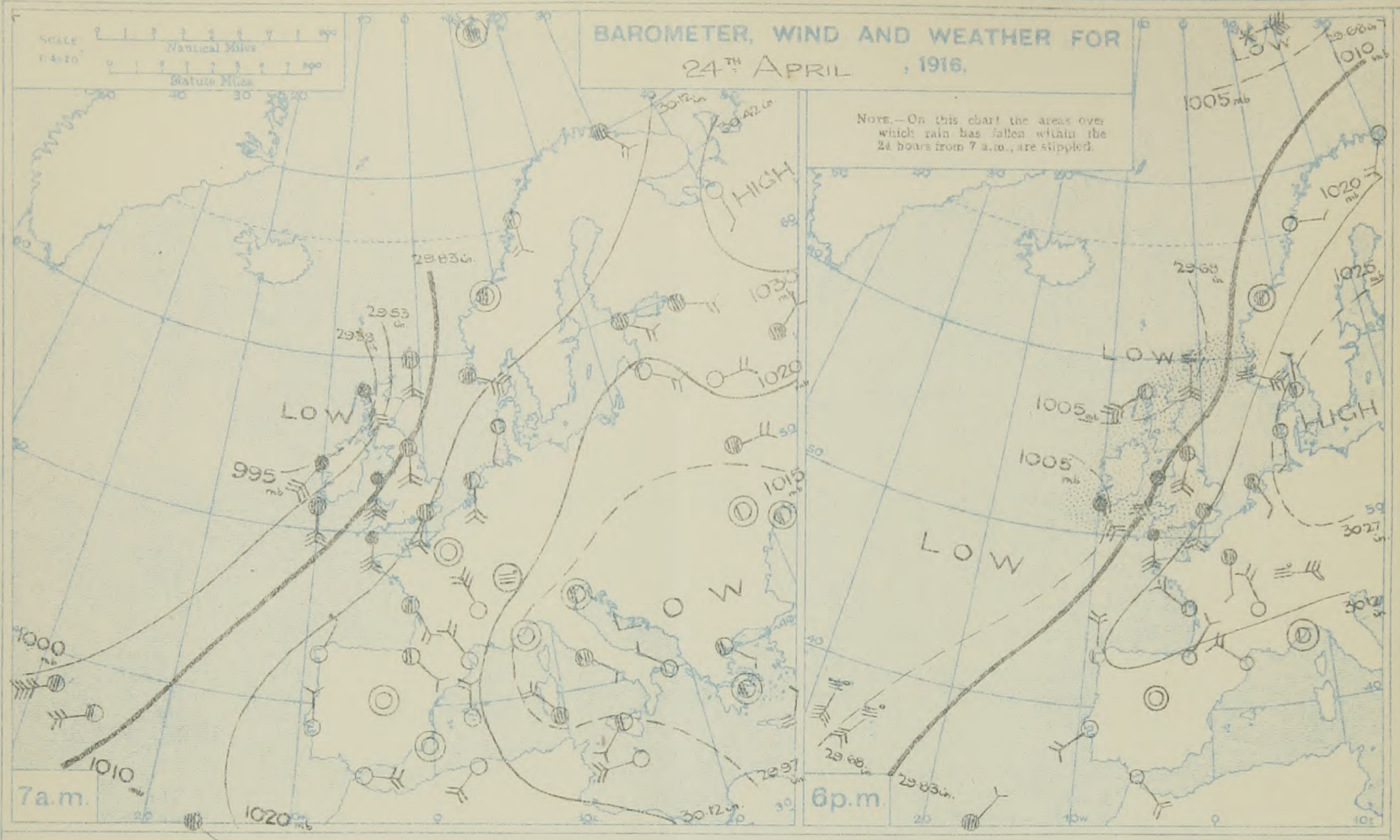
GALES
Duration and Extreme Force in British Islands.

Deerness
24th 1 p.m. SSE 8.

Eskdalemuir
24th 8 a.m.–4 p.m. SSW 8
24th 10 p.m. S 8
25th 3 a.m. S 8

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

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b, 1	Moderate to light South-Westerly breeze; some rain and mist at first, fair to fine later; becoming milder.
2 a, b, 3, 4 a, b, 5	Light Southerly breeze; fine generally, some mist; warmer.
6 a, b, 7 a, b	Same as Nos. 0 and 1.
8 a, b	Same as Nos. 2 to 5.
9 a, b	Same as Nos. 0 and 1.
10 a, b, Western Channel and Bay 11	Light to moderate South-Easterly breeze; sea moderate; fair to fine; moderate temperature.

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

FURTHER OUTLOOK.

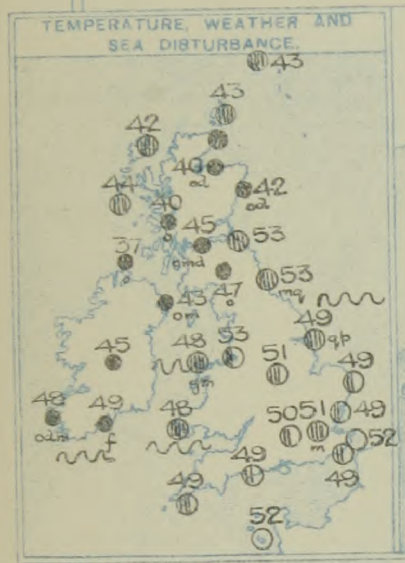
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 25TH APRIL, 1916.

GENERAL INFERENCE.

The Continental anticyclone is expanding westward, and a general improvement in the conditions over the British Isles is anticipated.



EXPLANATION.

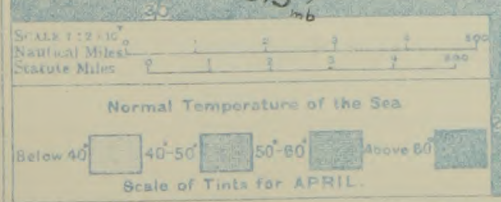
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈



Issue No. 19,818. **DAILY WEATHER REPORT.** Tuesday, 25th April **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	23rd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	24th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel						1034.3	?	39	-	S	1	*	b	-	-	*	32
Uleaborg												*		*		*	*
Gorki	1016.4	48	W	2	b	1020.4	+6	46	+1	E	3	*	b	-	-	*	*
Hangö	1017.9	39	ESE	5	bc	1021.0	+3	39	+5	ESE	3	*	o	-	-	*	*
Riga	1015.7	54	ESE	2	b	1019.1	+2	52	+6	ESE	3	*	b	-	-	*	*
Petrograd	1023.5	41	ENE	3	o	1024.1	+2	41	+5	ESE	3	-	o	*	-	43	36
Moscow	1020.8	43	NE	2	o	1027.0	+6	41	+2	ENE	2	*	•	*	-	*	39
Kiev	1012.8	55	SE	4	o	1015.5	+2	54	+2	E	3	*	o	*	2	*	52
Kharkov	1014.6	52	ENE	1	r	1018.3	+1	52	o	ENE	1	*	o	*	11	*	*
Kishinev	1013.6	61	NW	2	o	1014.0	+2	54	o	-	o	*	b	*	1	*	52
Elisabetgrad ...	1013.6	59	E	2	r	1014.9	?	?	.	SE	3	*	b	*	4	*	32
Nicolaiev	1012.8	61	SE	2	bc	1013.7	*	52	-11	-	o	*	bc	o	-	*	50
Odessa	1012.2	54	SSW	3	b	1013.3	+2	52	o	S	2	*	b	o	-	*	50

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	12	54	39	op.	op.o	10
	Banff	-	56	42	c bc	bc.c	1.8
	St. Andrews	5	55	43	*	*	2.7
Eng. N.E.	Harrogate	4	54	41	r.o	o	0.2
	Skegness	0.4	56	42	or	r.c.o	0.5
Eng. N.W.	Morecambe	-	58	45	o.c	o.c	0.0
	Blackpool						
	Southport	1	59	45	or.o	c.o	0.1
Midlands	Buxton						
	Leamington Spa	1	54	44	op	o.c	0.1
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	57	47	b	o	1.3
	Colwyn Bay	-	56	47	bcd	bcd	5.5
	Llandudno	-	58	48	c	bc.c	2.3
	Aberystwyth	?	54	?	r.o.c	c.o	0.9
	Tenby	2	50	45	r	r	0.0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	52	43	c.o.c	c	4.0
	Felixstowe	-	53	43	bc	bc.o	2.7
	Walton-on-Naze	0.1	51	44	bc	bc.p.bc	2.3
	Southend-on-Sea	-	56	37	b bc.c.o	o.c.bc	1.2
England, S.E.	Margate	-	57	43	bc.c	c.o	2.3
	Ramsgate	-	53	42	bc	cr	2.6
	Hastings	-	51	45	o	o.bc	0.4
	Eastbourne	-	53	46	o	o.bc	0.5
	Seaford	-	53	45	o.bc	b	2.3
	Brighton	-	52	49	o.c	c	1.2
	Worthing	-	54	41	c	c	0.2
	Littlehampton	-	52	46	o	o	0.2
	Bognor						
	Southsea						
	Bournemouth	*	50	46	o	o	0.0
England, S.W.	Weymouth						
	Torquay	2	55	47	o.d	o.d	0.0
	Paignton						
	Penzance						
	Newquay	0.4	54	47	o	o.p	0.0
	Ilfracombe	3	55	47	c.d o.c	o.c	0.0
	Weston-super-Mare ...						
	Bude	4	54	46	o.d m o	o.m.d	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	72	62	1.2	60	48	32		o	o	o.bc.b
City (Bunhill Row)	*	*	0.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	58		59	45	40	-	bc.u	bc.u	bc
Camden Sq. (Brit. Rainfall)	-	58	0.8	59	44	39	-	-	-	*
Hampstead (Reservoir) ...	*	62	0.2	57	45	34	-	o	bc	c
Richmond Park ...	*	*	0.2							
Kew. (See front page.)	*	*	0.3							

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

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1067 Joules	20.7 Milliwatts.	45 Milliwatts.
S. Kensington (Roof of M.O.)	70	61	0.4							

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	-	52	43	40	*	o	o	0.0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	56	44	34	o.b	o.op	o.b	*

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

25th–26th April, 1916.	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

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 61° at Nairn, but remained below 60° elsewhere. Rain fell in most districts, most in Scotland and Ireland, 33 mm. at Valencia. Nairn had six hours of sunshine, but generally there was little or none.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 117.

Wednesday, 26th April,

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direct.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direct.	Wind. Force 0–12.	Direct. 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 ...	1020·1	48	SW	3	bc	1025·6	+1	45	+2	–	0	–	bc	0	–	49	40	c	bc.	bc	*
	Deerness (Orkney)	1020·6	47	W	3	bc	1024·0	*	43	0	ESE	4	–	br	3	1	51	40	o.c.bc	bc	bc.c.oc	5·8
	Stornoway ...	1020·3	49	W	2	bc	1020·0	–1	44	+2	ENE	2	–	od	2	3	53	40	c.bc	bc.	bc.od	9·0
	Castlebay (Barra Isd.)	1019·7	47	N	2	o	1016·5	0	48	+4	E	4	–	cp	4	3	50	43	o.bc	c.bc.o	o.b.p.c	8·6
	Glasgow ...	1019·7	50	SW	1	om	1021·3	0	45	0	E	3	–	mc	*	8	52	42	omp.om	o.cm.om	omd.om	0·0
	Eskdalemuir ...	1021·2	46	SSW	4	om	1022·0	0	48	+1	N	3	SW	c	*	7	48	41	od.om	om.om	omd.bc	0·0
	Malin Head ...	1018·4	44	NE	3	op	1014·9	0	48	+4	SW	2	S	bcm	2	1	49	37	bcw	bcw	bcm	5·0
	Blacksod Point	1013·9	47	E	3	cg	.	.	.	.	.	.	.	.	.	.	.	.	bc	c.cd	,	*
	Valencia ...	1012·7	52	SSE	4	rc	1009·3	–1	52	+4	SE	5	–	o	4	5	53	48	omd	omr	rc.op	0·0
	Roche's Point	1016·4	48	SE	3	ofcl	1015·5	*	48	–1	SE	4	–	f	4	16	49	48	fd	fd.om	omr.f	*
	Birr Castle ...	1016·0	52	S	1	r	1014·6	*	50	+5	SSE	2	–	c	*	2	54	44	or.o	ord	od r.c	0·0
	Donaghadee ...	1018·9	44	ENE	3	of	1018·5	0	47	+4	SE	3	–	m	2	3	47	41	ogm	ogm.af	fr.bcm	*
	Liverpool (Bidston)	1020·5	60	SSE	1	b	1020·9	0	48	–5	ESE	2	–	bc	1	–	62	46	o.c	bc	bcm	?
	Holyhead ...	1019·4	51	SSW	4	c	1018·4	–1	48	0	SE	2	–	bz	0	race	52	42	ofcq	ofc p.o	bw bc	0·0
	Pembroke (St. Ann's)	1019·6	61	S	3	b	?	0	49	+1	SE	3	SE	b	3	–	54	48	o.c	bc b.	bc	5·3
	Scilly (St. Mary's)																					
	Falmouth ...	1019·9	53	ESE	2	bz	1018·1	0	48	–1	ESE	2	–	b	*	–	56	46	c.ba.b	b.	bw	9·2
	Jersey (St. Aubin)	1021·0	65	SE	1	b	1019·4	*	58	+6	ENE	1	–	bm	1	–	65	51	b	b.	bm	12·3
	Portland Bill ...	1022·2	49	E	2	b	1020·2	–1	50	+1	ENE	3	E	c	3	–	55	48	bc	bc	b.bc.c	*
	Dungeness ...	1023·5	56	SE	2	bc	1021·5	0	52	+3	ENE	3	ENE	bc	2	–	62	47	bc	bc.	bc.ib.bc	*
	Dover	1023·6	55	–	0	b	1021·7	0	55	+3	–	0	–	b	2	–	63	47	b	c.bz	bz	12·2
	Wick	1021·2	48	S	2	bc	1023·5	0	43	+1	SE	3	–	r	3	2	46	39	or.bc	bc	bc.omd	*
	Nairn	1020·0	52	–	0	bc	1021·5	*	42	+2	E	1	–	bc	1	3	54	40	d.bc	b.bc.	cgp.	6·2
	Aberdeen ...	1021·7	43	NE	2	od	1023·2	0	44	+2	–	0	–	o:m	3	4	44	42	od.r	od	odm	0·0
	Leith	1019·9	49	E	1	o	1022·0	0	44	–9	E	1	–	o	2	4	54	42	o	o.oc.o	o:m.o	*
	Tynemouth ...	1020·8	47	WSW	2	cm	1022·5	0	48	–5	SSW	2	–	bcf	3	–	59	44	omq	cm.	cm	*
	Spurn Head ...	1022·6	56	WNW	3	o	1024·0	0	48	–1	SSE	2	–	bc	3	–	65	45	bc	bc.o	o.bc	4·7
	Yarmouth ...	1024·0	50	S	3	bc	1023·5	0	48	–1	SE	2	–	bm	2	–	56	44	bc.c	b.bc.	bm	7·0
	Clacton-on-Sea	1023·8	52	SSE	1	bc	1022·4	0	53	+4	ESE	2	–	bc	1	–	55	49	bc.c	c.bc	bc.	12·2
	Nottingham ...	1022·6	60	WSW	2	c	1022·4	*	48	–3	E	2	E	bcnw	*	–	62	36	c.bc	c.bc	c.bm.	4·7
	Benson (Oxon.) ...	1021·3	60	SSW	2	b	1021·4	0	56	+6	SE	1	–	bc	*	?	66	40	b	b	b.	*
	Sth Farnborough	1022·1	62	SSE	2	b	1021·2	0	51	+2	ESE	1	–	bmw	*	–	67	41	c.bc	bc.b	bm	10·8
	London (Kew Obsy.)	1023·1	62	S	3	b	1022·0	0	51	0	E	2	–	bm	*	–	66	46	om.c.bcw	bcw.br	br.om	10·4
NORTHERN EUROPE.	Spitsbergen ...	1004·0	12	ENE	8	c	1003·7	0	10	+10	E	6	*	b	*	*	23	7				
	Vardö	1014·1	39	SSE	1	bc	1011·7	+1	37	+1	SW	1	–	r	2	*	39	34				
	Bodö	1013·2	45	SE	2	o	1011·0	0	45	–3	SSW	3	–	r	5	2	55	39				
	Christiansund	1019·8	41	SW	2	r	1026·7	+3	46	–11	NW	4	–	b	3	6	57	41				
	Skudesnaes ..	1023·3	43	SE	7	c	1027·0	+1	45	0	–	0	–	o	3	3	45	39				
	Færder (Xiania Fjord)																					
	The Scaw (Skagen)	1028·8	46	SSW	1	b	1030·0	+1	46	0	S	1	–	b	1	–	50	43				
	Blaavands Huk	1027·9	54	S	1	bc	1028·7	0	50	+2	SE	2	–	b	2	–	54	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1025·1	55	ENE	2	bc	1024·7	0	55	+1	SE	2	–	b	1	–	63	52				
	C. Gris Nez ...	1023·5	54	NE	3	bc	1022·3	0	56	+2	SE	1	*	b	0	–	61	46				
	La Hève	1022·0	63	NE	2	bc	1020·4	*	55	+4	ESE	3	*	m	1	–	66	52				
	Brest (St. Mathieu)	1019·9	60	SE	3	bc	1018·1	0	53	+5	ESE	2	*	b	5	–	63	48				
	Rochefort (Ile d'Aix)	1018·7	66	E	2	bc	1017·6	0	54	+4	E	3	*	bc	*	–	72	50				
	Biarritz	1015·7	61	ESE	2	b	1016·8	+1	57	+5	SSE	2	*	b	2	–	73	55				
	Paris	1022·0	64	ENE	2	b	1021·1	0	54	+8	–	0	–	b	*	–	68	45				
	Belfort	1023·3	55	ENE	4	c	1023·3	*	51	+5	E	6	*	m	*	–	59	44				
	Lyons	1021·1	60	NNW	2	b	1020·2	*	51	+4	SE	1	*	b	*	–	63	42				
	Nice	1017·5	57	–	0	b	1017·1	0	62	+7	–	0	*	b	1	–	64	48				
	Perpignan ..	1019·3	61	E	1	b	1018·7	0	55	–2	–	0	–	b	*	–	68	41				
	Sanguinaire ...	*	57	W	3	bc	*	*	57	0	E	2	*	o	0	–	70	54				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017·9	57	NNE	2	o	1019·5	+3	50	–4	–	0	–	f	2	–	59	46				
	Madrid (8 a.m.)	1014·9	73	–	0	b	1020·0	+2	57	+2	–	0	–	bc	*	–	77	48				
	Lisbon (9 a.m.)																					
	Gibraltar	1018·6	59	E	3	m	1018·3	*	59	+7	E	4	*	b	2	–	72	51				
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1015·1	*	–	0	c.							*									
	Madeira (Funchal)	1016·7	63	N	2	o	1016·4	0	57	+2	N	3	–	b	2	–	64	57				
YESTERDAY'S REPORTS		24th ..., 3 P.M. G.M.T.					25th April ..., 7 A.M. G.M.T.															
ITALY.	Venice	1016·7	55	–	0	b	1018·4	0	55	+1	–	0	*	c	3	1	*	*				
	Turin	1015·9	57	–	0	b	1019·4	0	54	+4	–	0	*	b	*	–	*	*				
	Viasri	1014·8	55	W	2	r	1014·9	0	57	–2	NW	2	*	bc	3	–	*	*				
	Pesaro	1016·6	50	–	0	b	1018·2	0	54	+6	NW	2	*	b	3	9	59	46				
	Leghorn	1016·2	55	–	0	c	1017·9	0	54	+2	–	0	*	b	3	3	*	*				
	Rome	1015·0	52	N	2	o	1015·4	0	50	–2	N	2	*	c	*	14	57	45				
	Brindisi	1015·0	57	NNE	1	b	1015·0	0	54	–1	–	0	*	b	1	–	57	52				
	Cagliari	1013·1	68	NW	6	c	1016·2	0	50	–2	NW	2	*	bc	2	–	68	45				
	Palermo	1014·8	62	S	2	c	1013·5	0	57	–2	–	0	*	c	4	6	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7 A.M. G.M.T. today

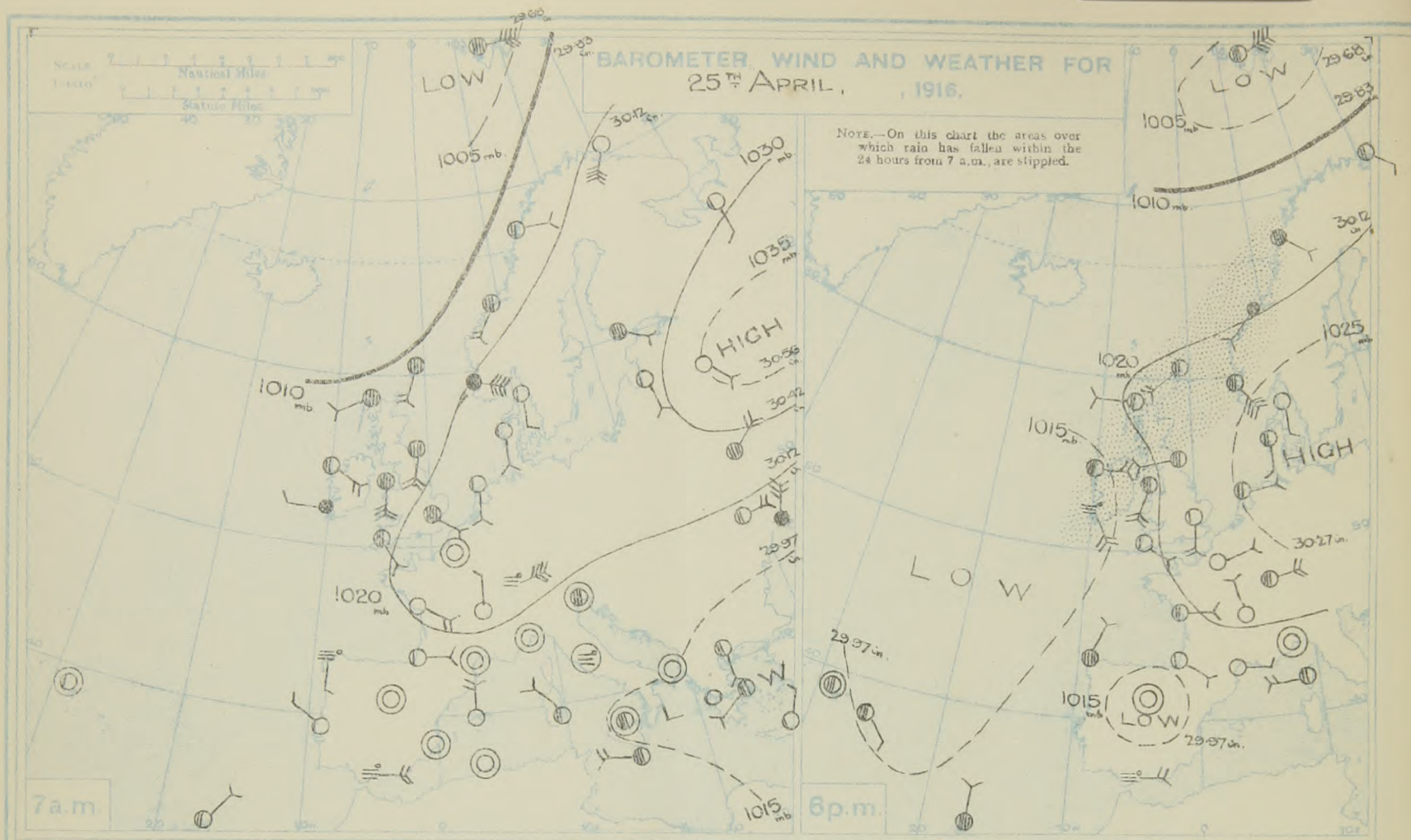
5000 feet	SE by S	30	miles per hour
4,000 "	SE by S	16	" "
3,000 "	SE by S	11	" "
2,000 "	SE by S	14	" "
1,000 "	SE by S	14	" "
Surface	E by S	2	" "

GALES.
Duration and Extreme Force in British Islands.

Eskdalemuir
25th 9 p.m. - 10 a.m. SSW 8.

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

BAROMETER, WIND AND WEATHER FOR 25TH APRIL, , 1916.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

1	Light to moderate Easterly breeze; cloudy to dull, some rain; moderate temperature.
2 a	Light variable South-Easterly to Easterly breezes; fine generally, some mist; warm.
2 b	
3	
4 a	
4 b	
5	
6 a	South-Easterly breeze, moderate or fresh at times; fine to dull, some rain, coast mist or fog; moderate temperature.
6 b	
7 a	
7 b	
8 a	
8 b	
9 a	
9 b	
10 a	
10 b	
11 Western Channel and Bay	Light to moderate South-Easterly to Easterly breeze; sea moderate; fine generally, local mist or fog, moderate temperature.

STORM WARNINGS.

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

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

No Warnings Issued.

FURTHER OUTLOOK.

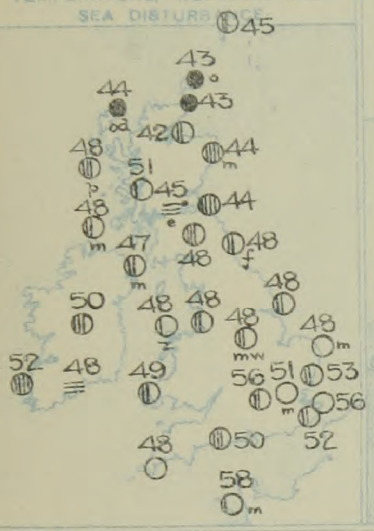
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 26TH APRIL, 1916.

GENERAL INFERENCE.

A depression beyond Ireland will affect to some extent the weather in the western and northern districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

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

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

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

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

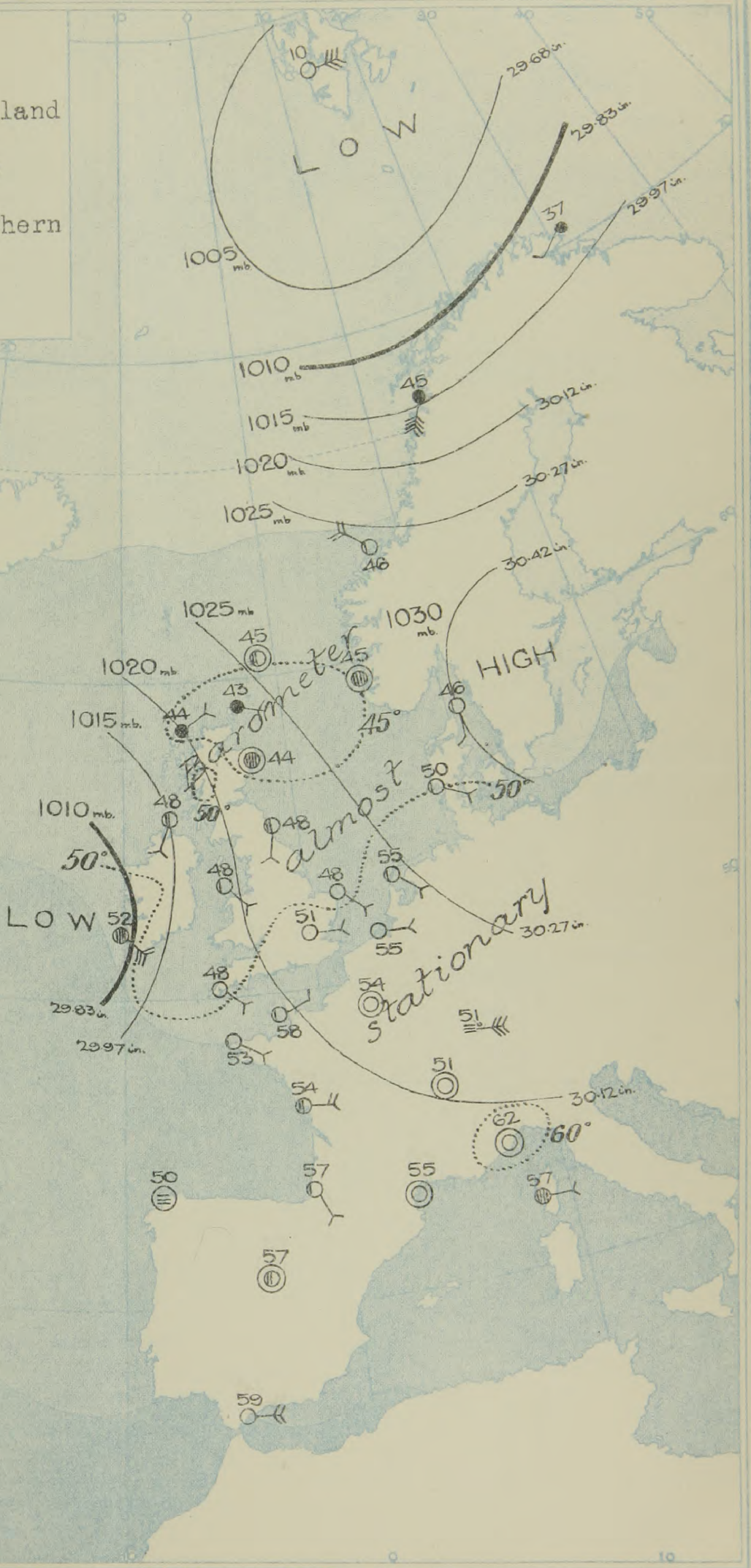
SEA DISTURBANCE.—Rough ~~ High ≈≈.

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

Normal Temperature of the Sea

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

Scale of Tints for APRIL.



Issue No. 19879. — # DAILY WEATHER REPORT. — Wednesday, 26th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	24th at 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	25th at 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Mesenj						1029.4	*	47	-	S	1	*	b	*	—	*	34
Velikieluki						1036.2	*	45	-	SE	2	*	b	*	—	*	*
Gorki	1026.4	50	E	3	b							*				*	*
Hangö	1025.4	45	ESE	3	c	1028.8	+2	41	+2	ESE	2	*	0	-	—	*	*
Riga	1024.8	59	ESE	2	c	1024.1	+3	54	+2	SSE	2	*	b	0	—	*	*
Petrograd	1031.3	48	SE	3	0	1035.5	+2	45	+4	SSE	3	-	b	*	—	48	39
Moscow	1032.4	43	NNE	2	b	1038.3	+3	43	+2	E	3	*	b	*	—	*	34
Kiev	1021.9	54	ENE	3	bc	1026.4	+3	46	-8	NE	4	*	0	*	—	*	46
Kharkov	1022.1	54	NE	3	0	1026.1	+3	46	-6	E	1	*	0	*	1	*	*
Kishinev	1015.9	64	SE	1	b	1019.9	+1	57	+3	E	3	*	bc	*	—	*	52
Elisabetgrad ...	1018.6	57	E	4	0	1021.9	+3	50	-	NE	4	*	0	*	2	*	50
Nicolaiev	1017.0	66	ENE	5	0	1018.4	*	55	+3	NNE	5	*	r	0	2	*	59
Odessa	1017.0	61	ENE	1	b	1018.6	+3	57	+5	ESE	2	*	0	0	—	*	52

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	13	52	38	r.o	b	8.5
	Banff	8	48	40	or.c	c.bc	2.0
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	60	50	c.bc.b	b.bc.c	6.1
	Skegness	-	64	47	o.bc	bc.o	5.0
Eng., N.W.	Morecambe	-	56	51	c.bc	c	0.3
	Blackpool						
	Southport						
Midlands.	Buxton	0.3	56	47	bc	bc	5.6
	Leamington Spa	-	64	47	bc	bc	5.9
	Malvern						
	Ross-on-Wye	-	64	47	c.bc.b	bc	5.2
Wales.	Rhyl	-	61	51	c	o	0.3
	Colwyn Bay	-	60	50	c.bc	bc	1.8
	Llandudno	-	59	51	bc	bc	1.2
	Aberystwyth	1	60	51	r.o.c	bc.c	4.0
	Tenby	3	57	45	bc	b	5.3

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	55	47	bc	bc	12.0
	Walton-on-Naze						
	Southend-on-Sea	-	69	46	b	bc.b	11.0
England, S.E.	Margate	-	65	46	bbc	bc.c	8.7
	Ramsgate	-	57	45	bc	bc	9.1
	Hastings	-	61	46	bc.b	b	11.7
	Eastbourne	-	52	46	b	b	12.0
	Seaford						
	Brighton	-	57	44	bc.c	c.bc.cbc	12.0
	Worthing	-	61	47	b	b	12.3
	Littlehampton	-	54	47	b	b	12.4
	Bognor						
	Southsea						
	Bournemouth	0.3	59	46	b	b	12.0
England, S.W.	Weymouth	0.2	60	47	zb	bc.bz	8.3
	Torquay	2	55	48	bc	bc.c	7.7
	Paignton						
	Penzance						
	Newquay	-	60	48	b	b	8.1
	Ilfracombe	-	63	52	c.bc	b.bc	8.5
	Weston-super-Mare ...	1	64	45	b.bcb	bc.b	5.5
	Bude	1	64	50	o.cbc	bc.b	8.1

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	44	69	11.3	69	43	32	-	b.bc	bc.b	b.bc
City (Bunhill Row)	*	*	9.7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	41	56	10.3	67	49	44	-	bc	bc	bcmm
Camden Sq. (Brit. Rainfall)	41	57	9.5	69	44	38	-	b	b	*
Hampstead (Reservoir) ...	*	58	9.6	65	47	33	-	b	bc	bm
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	10.4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	43	56	9.8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1956 Joules	37.8 Milliwatts.	43 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	68	48	37	0.b	b.c	bc.b	*

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

26th & 27th April, 1916.	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

NOTES ON YESTERDAY'S WEATHER.

There was general increase of temperature, rising to 68° at Kensington. Rain fell in the west and north, 16 mm. at Roche's Point. Sunshine varied considerably, from none to more than 12 hours. Aurora was seen at several northern stations.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 118.

{Thursday, 27th April

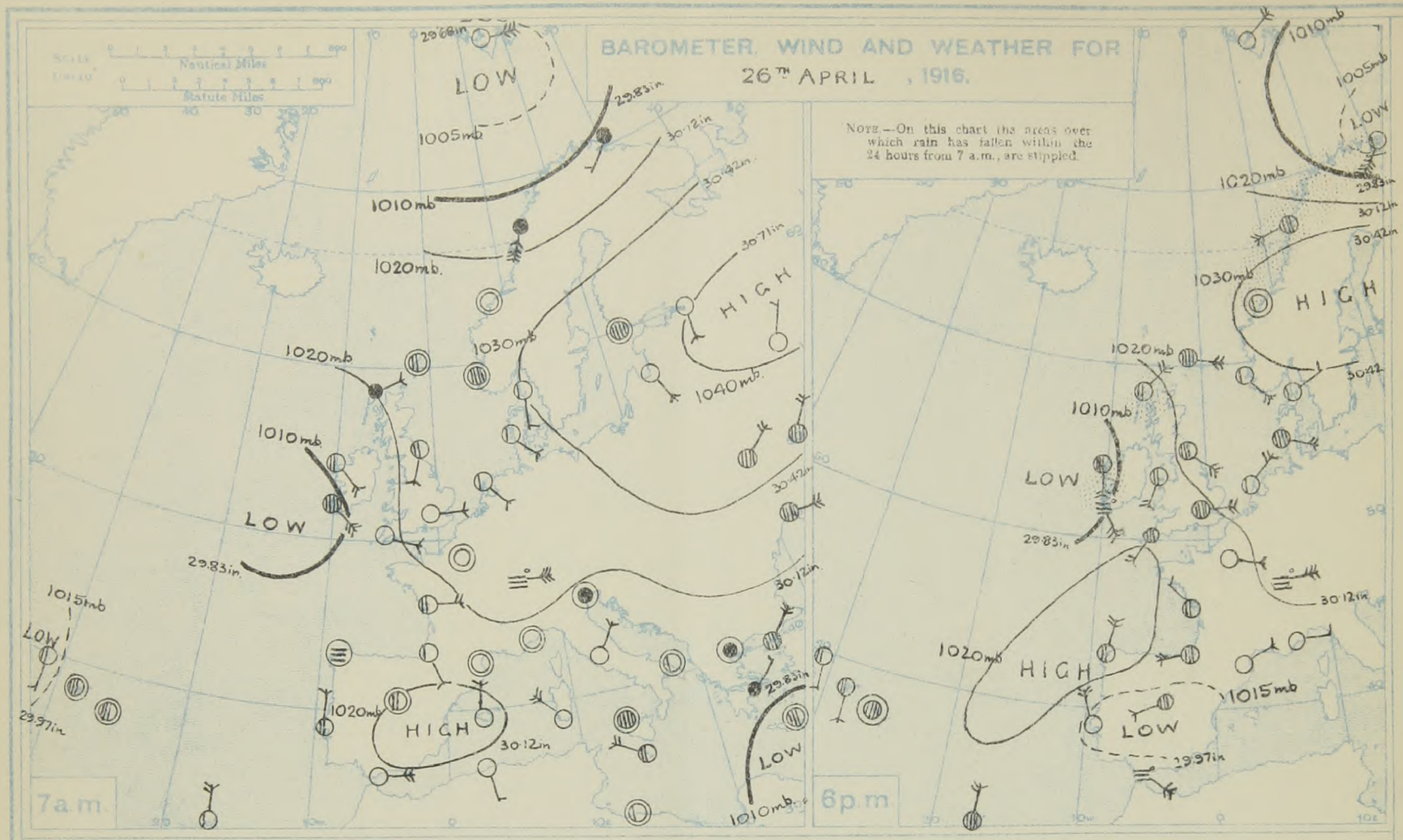
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12	Direc. of Upper Cloud	Weather.	Sea [illegible]	Rainfall Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					*	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1025·2	45	ESE	4	o	1021·3	-1	46	+1	SSE	3	-	om	2	-	47	42	om	o	om	*
	Deerness (Orkney)	1023·3	46	ESE	4	c	1017·6	*	46	+3	SE	5	S	bc	4	1	47	43	f	f.o.c	o.c.bcm	3·7
	Stornoway ...	1016·5	44	NE	4	bc	1014·4	o	51	+7	SSW	4	-	bcq	2	0·3	57	44	od.bcq	bc	bcq	6·5
	Castlebay (Barra Isd.)	1014·8	56	ESE	5	bc	1014·1	0	47	-1	SE	4	-	r	4	1	57	46	ep.bcm	cm.bc	bc.r	8·6
	Glasgow ...	1017·5	44	SE	1	cq	1018·2	+2	48	+3	SE	1	-	om	*	0·1	68	44	m.o.c	bc.b.bc	bc.cm	5·8
	Eskdalemuir ...	1018·6	41	SE	3	cq	1019·6	+1	48	0	SSE	2	-	o	*	-	66	42	bc.b	b.bc.cq	bq.bc.q	8·8
	Malin Head ...	1011·0	58	ESE	6	bcq	1013·3	+3	49	+1	S	4	S	cg	3	-	60	46	bcq	bcq	cg	11·0
	Blacksod Point	1008·5	53	S	4	cq													bc	cq		*
	Valencia ...	1009·5	50	SSE	5	m	1017·4	+5	51	-1	SW	3	-	op	3	3	54	49	cq	cqd	dmcd.o	2·5
	Roche's Point	1015·1	50	SSW	4	o	1018·6	*	49	+1	SW	1	-	c	4	1	52	48	df.om	o.b.om	od.o	*
	Birr Castle ...	1013·1	53	SE	3	c	1016·0	*	50	0	S	1	-	r	*	1	57	48	c.o	c	c.od.r	2·1
	Donaghadee ...	1016·1	58	SSE	3	bcq	1015·7	+2	47	0	S	4	S	cm	3	-	62	44	bcq	bcq	bcmw	*
	Liverpool (Bidston)	1017·4	65	ESE	2	nc	1019·4	+2	50	+2	-	o	-	b	1	-	71	49	bc	bm	bm	9·3
	Holyhead ...	1017·2	59	SSW	3	bcq	1018·9	+2	47	-1	SSW	5	-	ep.fg	4	-	67	41	b.bcq	bcq	b.bc.c.o	11·0
	Pembroke (St. Ann's)	1018·3	50	SSW	2	b	1020·2	+2	47	-2	SSW	3	S	cpd	3	0·3	58	45	bc	b	b.fg.pd	10·6
	Scilly (St. Mary's)																					
	Falmouth ...	1018·2	56	SW	3	cq	1020·8	+2	49	+1	W	1	-	c	*	-	60	43	b	b.bc	bc.bw	11·2
	Jersey (St. Aubin)	1018·1	67	E	2	b	1019·4	*	53	-5	NW	3	-	b	2	-	64	51	bm.c	c.bc	bc.b	9·5
	Portland Bill ...	1019·2	62	ENE	2	bc	1019·3	+1	50	0	NW	1	-	bc	3	-	55	48	c.bc	bc.	bc.	*
	Dungeness ...	1018·9	52	NE	2	c	1018·3	o	58	+6	NE	1	NE	bc	1	-	59	49	bc	bc.c	bc.b.bc	*
	Dover	1020·1	58	NE	2	c	1018·5	o	63	+8	-	o	-	b	o	-	66	53	b	b.bc	bq	12·1
	Wick	1019·6	46	SE	4	m	1017·3	-1	45	+2	SSE	2	-	m	3	1	47	42	od.fg	fg.bcm	bcmw	*
	Nairn	1017·9	46	-	o	bc	1016·5	*	47	+5	-	o	-	bcm	1	0·1	68	44	c.bc	bc.c.bc	bc.cmw	7·4
	Aberdeen ...	1021·7	50	E	1	bc	1018·8	o	47	+3	SSE	3	S	b	3	-	55	42	m.om	om.bc	bc.b.	2·8
	Leith	1018·1	64	SE	1	c	1017·9	o	46	+2	E	1	E	c	3	-	67	43	o.c.bc	c.bc	o.bcm.c	*
	Tynemouth ...	1020·7	49	SE	4	cmq	1018·7	-1	48	o	SE	1	-	cm	2	-	54	44	cm	cm.	cm	*
	Spurn Head ...	1021·1	50	SE	5	bcm	1019·3	-1	46	-2	S	2	-	bc	3	-	53	43	bcm	bcm.	bc	8·6
	Yarmouth ...	1021·4	50	ESE	2	c	1019·5	-0	52	+4	NE	1	-	bcm	1	-	54	46	bm	cm	bm.cm	11·0
	Clacton-on-Sea	1020·2	54	ENE	3	bc	1018·9	o	55	+2	ENE	1	-	c	o	-	58	50	bc	bc	bc.c	11·1
	Nottingham ...	1019·0	67	E	1	b	1019·2	*	51	+3	SW	1	SW	bm	*	-	69	43	bcm	bc.bm	b	4·1
	Benson (Oxon.) ...	1018·1	67	SSE	1	bc	1019·5	+1	51	-5	-	o	-	b	*	-	72	39	bc	bc.	b	*
	Sth Farnborough	1018·4	67	S	2	c	1019·0	+1	47	-4	-	o	-	bm	*	-	74	40	b.bc	bc.c	c.bfg	11·1
	London (Kew Obsy.)	1019·2	64	E	4	o	1019·4	+2	49	-2	-	o	E	bcm	*	-	71	45	bm.o	o.bcm.o	cm.bw.bc	7·9
NORTHERN EUROPE.	Spitsbergen ...	1011·4	10	NE	4	b	1021·9	+5	3	-7	-	o	*	b	*	*	10	-4				
	Vardö	1016·0	37	SW	7	b	1018·4	+5	32	-5	W	5	-	o	4	*	39	32				
	Bodö	1028·0	37	WSW	4	c	1029·9	+4	37	-8	W	2	-	o	2	?	45	32				
	Christiansund	1030·7	45	-	o	b	1029·1	o	46	o	NNE	2	-	c	3	3	48	43				
	Skudesnaes ...	1027·4	46	SE	3	b	1026·7	o	50	+5	E	3	-	b	2	-	50	43				
	Færder (X'fiania Fjord)																					
	The Scaw (Skagen)	1029·9	48	ENE	1	b	1029·3	o	48	+2	SE	2	-	o	2	-	52	45				
	Blaavands Huk	1027·0	50	ESE	3	o	1027·3	+1	52	+2	SE	3	NW	b	2	-	64	45				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1022·1	55	NE	3	b	1021·1	o	57	+2	ESE	2	SW	b	1	-	66	54				
	C. Gris Nez ...	1019·1	57	NE	2	b	1018·4	o	54	-2	NE	2	*	m	1	-	59	52				
	La Hève	1018·1	66	SE	1	m	1018·0	*	56	o	NE	1	*	m	o	-	72	54				
	Brest (St. Mathieu)	1019·7	53	N	2	bc	1021·0	+1	50	-3	N	2	*	c	5	+	68	50				
	Rochefort (Tled Aix)	1017·6	59	NW	1	bc	1018·3	+1	54	o	SSE	2	*	m	*	-	72	50				
	Biarritz	1019·0	55	WSW	3	c	1019·7	+1	54	-3	W	2	*	m	2	-	61	52				
	Paris	1018·0	68	E	2	b	1018·0	+1	57	+3	-	o	S	b	*	-	73	48				
	Belfort	1020·6	59	E	5	m	1020·3	*	52	+1	E	4	*	m	*	-	64	49				
	Lyons	1017·5	68	-	o	b	1018·6	*	54	+3	-	o	*	b	*	-	72	48				
	Nice	1018·0	63	E	1	b	1015·4	o	65	+3	-	o	*	bc	o	-	73	55				
	Perpignan	1017·5	61	ENE	2	b	1017·7	o	59	+4	-	o	-	b	*	-	70	45				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·2	59	NNE	4	bc	1020·0	+1	54	+4	NE	5	-	o	3	?	61	50				
	Madrid (8 a.m.)	1014·7	75	SW	2	c	1017·2	+1	61	+4	-	o	W	bc	*	-	77	50				
	Lisbon (8 a.m.)	1014·4	70	NNW	4	b	1014·4	+1	57	o	NW	3	-	b	8	-	76	54				
	Gibraltar	1018·6	61	SE	4	m	1016·9	*	60	+1	E	5	*	m	2	-	70	57				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·1	+3	57	o	NNW	4	-	b	2	Trace	63	54				
	Azores (Horta, 8 a.m.)	1016·4	*	SSE	2	bc							*									
	Madeira (Funchal)	1017·0	64	N	3	o	1018·6	o	59	+2	NNE	3	-	b	2	-	66	57				
YESTERDAY'S REPORTS		25th ... ..., 8 P.M. G.M.T.					26th April ..., 7 A.M. G.M.T.															
ITALY.	Venice	1017·9	59	-	o	r	1017·9	o	57	+2	-	o	*	r	2	1	*	*				
	Turin	1017·7	61	-	o	b	1018·6	o	57	+3	-	o	*	b	*	-	*	*				
	Viesti	1015·6	54	N	2	c	1015·4	o	57	o	W	2	*	bc	3	2	*	*				
	Pesaro	1017·4	55	-	o	o	1017·9	o	55	+1	-	o	*	o	3	1	*	*				
	Leghorn	1017·5	59	-	o	b	1014·6	o	54	o	-	o	*	c	2	-	*	*				
	Rome	1015·6	54	-	o	b	1014·2	o	54	+4	NE	2	*	b	*	Trace	*	*				
	Brindisi	1016·1	57	SW	3	b	1013·7	o	54	o	-	o	*	b	2	5	*	*				
	Cagliari	1017·0	66	NE	4	fair	1014·8	o	48	-2	NW	4	*	b	3	16	*	*				
	Palermo	1015·4	55	-	o	o	1014·4	o	59	+2	-	o	*	b	4	9	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.0 a.m. to-day.

10,000 feet	N by W	16 miles per hour
9,000 "	N by W	15 " "
8,000 "	N	12 " "
6,000 "	SW	7 " "
3,000 "	W by N	6 " "
2,000 "	NW by W	2 " "
1,000 "	N by W	7 " "
Surface	W by N	2 " "

—

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



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.

0 a, b	Moderate Southerly to light Westerly breezes; cloudy, some rain, fair to fine later; temperature rising.
1, 2 a, b, 3, 4 a, b, 5	Light variable breezes; fine, local mist; warm.
6 a, b, 7 a, b	Same as No. 0.
8 a, b	Same as Nos. 1 to 5.
9 a, b, 10 a, b	Same as No. 0.
11 Western Channel and Bay	Light to moderate Northerly to North-Easterly breeze; sea moderate; fair to fine, local mist; moderate temperature.

STORM WARNINGS.

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

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

No Warnings Issued.

FURTHER OUTLOOK.

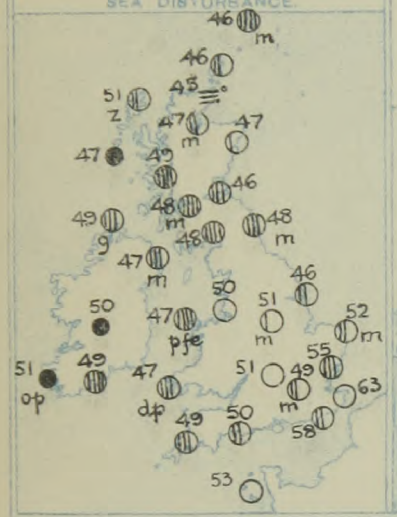
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 27TH APRIL, 1916.

GENERAL INFERENCE.

A new anticyclone spreading in from the south-west will serve to prolong the fine weather type of conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

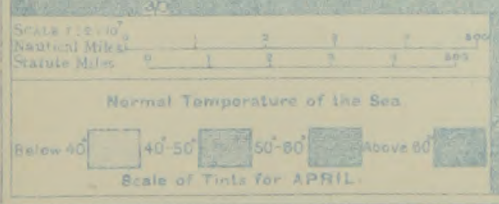
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ∿∿ High ≈≈.



Issue No. 19880

DAILY WEATHER REPORT.

Thursday, 27th April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	25th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	26th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1031·4	45	S	3	0							*				*	
Uleaborg												*		*		*	*
Gorki	1034·0	48	E	3	bc	1038·1	+4	?	-	E	2	*	?	-	-	*	*
Hangö	1032·2	34	SSW	1	f	1033·1	+2	34	-4	SSW	1	*	0	-	-	*	*
Riga	1033·6	55	SSE	1	b	1036·7	+2	50	-4	SSE	2	*	b	b	-	*	*
Petrograd	1036·0	52	SSE	2	b	1036·8	+1	48	+3	S	2	-	b	*	-	61	41
Moscow	1039·4	46	ENE	1	b	1040·6	0	43	0	NNE	1	*	b	*	-	*	34
Kiev	1031·9	46	ENE	3	0	1032·4	0	45	-1	ENE	3	*	0	*	-	*	43
Kharkov	1031·0	46	ENE	2	0	1030·7	0	45	-1	NE	3	*	0	*	?	*	*
Kishinev	1026·9	50	NNE	3	b	1029·3	0	45	-12	NE	2	*	bc	*	-	*	41
Elisabetgrad ...	1026·4	46	ENE	4	0							*		*		*	
Nicolaiev	1025·0	50	NNE	7	0	1026·1	*	50	-5	NNE	6	*	b	0	4	*	50
Odessa	1024·7	52	ESE	4	0	1026·4	+1	46	-11	E	4	*	0	0	-	*	45

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	4	66	40	b	bc	7·7
	Banff	3	58	43	c bc	bc	4·3
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	66	40	bc. b. c	b. bc. c	3·4
	Skegness	-	53	44	o. bc	bc o	5·3
Eng. N.W.	Morecambe	-	71	45	bc	bc	8·3
	Blackpool						
	Southport	-	71	45	c. bc b	bc z	7·8
Midlands	Buxton						
	Leamington Spa	-	71	40	c. bc	bc. c	?
	Malvern						
	Ross-on-Wye	-	72	42	bc. b	b. bz.	7·8
Wales.	Rhyl	-	70	43	b	b	7·7
	Colwyn Bay	-	71	47	bc	bc	7·0
	Llandudno	-	71	44	b.	b. bc	*4·8
	Aberystwyth	-	71	54	c. b	bc. c	11·5
	Tenby	-	62	48	b	b	11·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	-	58	48	bc	bc. c	10·0
	Felixstowe	-	57	47	bc	bc	10·8
	Walton-on-Naze	-	57	48	b. bz. b	b. bc. b	10·5
	Southend-on-Sea	-	67	46	b	b. bc	10·4
England. S.E.	Margate	-	61	47	b	b. bc	10·6
	Ramsgate	-	61	49	bc	bc	11·3
	Hastings	-	66	51	b	b	12·0
	Eastbourne	-	59	45	b	bzm	11·1
	Seaford	-	71	48	b	b. bz	10·2
	Brighton						
	Worthing	-	69	49	b	bx	10·6
	Littlehampton						
	Bognor						
	Southsea						
	Bournemouth	-	66	44	b	b	10·3
England. S.W.	Weymouth	-	62	46	z. bc. b	b. bcz	8·0
	Torquay	-	62	47	bc. b	b	9·6
	Paignton						
	Penzance	-	59	49	b. bc	bc. c	9·4
	Newquay	-	64	47	b	b	11·4
	Ilfracombe	-	70	49	bc. b	b	11·0
	Weston-super-Mare ...	-	72	44	b	b	11·0
	Bude	-	70	43	b	b	11·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.) ...	53	72	8·9	71	45	34		bc	bc. b	bz. bm
City (Bunhill Row)	*	*	9·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	50	69	8·8	71	47	44	-	b	b	bm
Camden Sq. (Brit. Rainfall)	48	64	8·8	74	46	41	-	b	b	*
Hampstead (Reservoir) ...	*	70	9·4	69	48	34	-	b	bc	bc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	7·9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	52	69	8·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1485 Joules	28·6 Milliwatts.	60 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	67	44	35	bcu	bc	bc	5·8
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	71	49	38	bz	bz	bz bcz	*

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

27th & 28th April 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	5h. 33 / 5h. 30	11. 51 / 11. 50	7. 8 / 7. 10
Greenwich	5h. 43 / 5h. 41	11. 58 / 11. 57	7. 13 / 7. 15
Wick	5h. 32 / 5h. 29	12. 10 / 12. 9	7. 46 / 7. 50
Valencia	5h. 32 / 5h. 30	12. 39 / 12. 38	7. 56 / 7. 57

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 70° and upwards in many places, 74° at Farnborough. Slight rain fell in the west and north. Sunshine was abundant generally.

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

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

‡ The barometric change is expressed in half millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 119. Friday, 28th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017.5	44	S	5	f	1021.9	+2	46	0	WSW	3	–	o	2	0.3	52	43	cm c	c f	f o	*
	Deerness (Orkney)	1016.6	45	SE	3	f	1022.4	*	46	0	WNW	4	SW	bc	3	–	49	42	bc	bc. c. o f	f c. bc	6.8
	Stornoway ...	1016.4	50	SW	5	od pq	1023.6	+3	47	-4	SW	4	–	c	3	Trace	53	45	c. oq	od pq	od pbc. o	2.9
	Castlebay (Barra Isd.)	1017.3	47	SW	2	of	1024.7	+2	47	0	SW	3	–	d. f	3	2	48	45	r. omp	opm. f	f. odr f	0.0
	Glasgow ...	1019.2	54	SW	1	cm	1024.6	+4	49	+1	WNW	2	N	b	*	–	55	46	o. cm	c. o cm	c. o. bc	0.1
	Eskdalemuir ...	1020.3	49	SW	3	o	1025.1	+3	45	-3	ESE	1	–	o	*	–	53	39	o	o. c. bc o	o	4.3
	Malin Head ...	1018.8	49	WNW	4	cm	1025.3	+2	46	-3	W	3	NW	cm	3	0.2	54	45	qm	bcm	cg	3.0
	Blacksod Point	1022.0	48	NW	3	cgm	1026.6	+2	44	-1	W	1	–	bc	2	1	50	43	of. d	cgm	bc	*
	Valencia ...	1022.9	51	NNW	3	o	1026.5	+2	48	-3	NNE	2	NE	c	3	0.1	54	46	o. od o	o. c. bc. c	o. c. o c	2.8
	Roche's Point	1021.6	53	NNW	1	c	1025.2	*	48	-1	NNW	2	NE	b	?	–	55	?	o. cf	c. c	c. b	*
	Birr Castle ...	1023.2	52	W	1	o	1026.4	*	46	-4	N	1	–	o	*	1	57	45	c	c. o	op. o	1.9
	Donaghadee ...	1019.0	51	SSW	3	cgm	1025.4	+3	46	-1	N	3	–	om	2	–	54	45	bcm	cm	ogm	*
	Liverpool (Bidston)	1020.4	51	WNW	2	b	1024.4	+2	45	-5	NW	2	–	m	1	–	55	44	bm	bm	bm	11.1
	Holyhead ...	1020.4	49	SSW	5	bg	1024.4	+3	46	-1	N	3	–	cf	2	Trace	53	42	o c. o	c. bc. b	c. b. afe	7.5
	Pembroke (St. Ann's)	1022.1	47	W	3	f	1023.0	+1	48	+1	N	3	–	b	2	0.2	59	40	cpd	of	of	3.3
	Scilly (St. Mary's)																					
	Falmouth ...	1021.2	50	NW	2	cg	1021.0	+1	45	-4	N	1	–	bc	*	–	59	43	c	c. bc c	o. c b	5.7
	Jersey (St. Aubin)	1019.1	56	NW	3	c	1018.0	*	54	+1	N	2	–	b	2	–	61	49	b	bc	bc. b	10.0
	Portland Bill ...	1019.5	52	NW	3	c	1018.4	0	54	+4	NNE	6	–	b	4	–	57	49	bc	b. bc	c. bc. b	*
	Dungeness ...	1017.9	58	E	1	bc	1019.1	+1	56	-2	NNW	1	N	bg	1	–	65	51	bc	bcg	bc. bcg	*
	Dover	1018.1	62	NE	1	b	1019.4	+2	55	-8	NW	3	–	b	2	–	71	51	g. b	b. g	bg	12.2
	Wick	1016.4	52	NW	2	bc	1022.0	+3	47	+2	W	1	–	bc	2	–	53	41	bcm	bcm	bc	*
	Nairn	1017.0	58	WSW	3	bcm	1024.4	*	51	+4	SW	1	–	bc	2	–	67	44	bc	bcm	bcw	9.2
	Aberdeen ...	1017.2	56	S	2	b	1024.1	+3	50	+3	NW	4	W	c	2	–	57	42	bc. bg	bg	bg. bc c	11.3
	Leith	1018.6	54	NW	1	c	1023.9	+2	50	+4	W	1	W	b	3	–	63	45	b	b	b	*
	Tynemouth ...	1018.7	58	NW	2	cm	1023.5	+3	49	+1	NW	2	–	bcm	2	–	58	45	bcm	cm	bcm	
	Spurn Head ...	1018.5	50	S	2	bc	1022.8	+1	48	+2	N	4	–	bcm	4	–	57	46	bcm	bcm	bc	9.0
	Yarmouth ...	1019.2	50	SE	1	bc	1021.3	+2	51	-1	N	2	–	bcm	1	–	57	47	bcm	bcm	bcm	11.7
	Clacton-on-Sea	1018.1	58	ENE	2	bc	1019.9	+1	56	+1	ENE	2	E	c	2	–	62	52	c. bc	bc	bc. c	11.2
	Nottingham ...	1016.5	61	WNW	3	b	1022.7	*	52	+1	NNE	1	–	bm	*	–	72	46	bm	bcm	b	10.3
	Benson (Oxon.) ...	1018.4	64	WNW	1	b	1021.5	+2	49	-2	N	3	–	m	*	–	72	41	b	b	b	*
	Sth Farnborough	1017.5	70	NW	2	bc	1020.3	+1	50	+3	–	0	SE	cm	*	–	76	45	m. b	b. bc	bc. bcm	11.1
	London (Kew Obsy.)	1017.7	73	N	2	bc	1020.4	+3	53	+4	NNE	2	–	om	*	–	74	48	bcm. bm b	b. bc	bc. b om	10.3
NORTHERN EUROPE.	Spitsbergen ...	1024.4	14	SE	4	b	1017.1	-1	14	+11	–	0	*	o	*	*	16	0				
	Vardö	1029.1	18	NNW	6	s	1027.9	-2	32	0	SW	6	–	c	3	*	32	28				
	Bodö	1031.8	39	E	2	b	1024.2	-3	45	+8	E	2	–	b	1	–	45	36				
	Christiansund	1025.3	52	NNE	1	q	1022.1	-1	50	+4	–	0	–	o	3	4	54	46				
	Skudesnaes ..	1025.5	46	E	2	c	1025.0	0	52	42	ESE	3	–	b	3	–	52	43				
	Færder (X'Tania Fjord)																					
	The Scaw (Skagen)	1029.5	50	SE	1	b	1030.0	0	48	0	SSE	2	–	b	2	–	54	45				
	Blaavands Huk	1026.3	59	ESE	4	b	1027.7	+1	52	0	SE	3	NW	bc	3	–	61	43				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1019.7	63	E	2	bc	1022.4	+3	55	-2	SSE	3	S	b	1	–	68	52				
	C. Gris Nez ...	1017.3	54	ENE	3	bc	1018.9	+2	51	-3	NE	3	*	b	2	–	66	48				
	La Hève	1018.7	57	N	2	m	1018.0	*	55	0	NNE	2	*	m	1	–	66	54				
	Brest (St. Mathieu)	1020.6	53	N	3	b	1019.3	0	51	+1	NE	3	*	c	1	–	63	48				
	Rochefort (Ile d'Aix)	1016.7	58	WSW	2	c	1014.6	0	58	+4	NE	1	*	o	*	–	72	52				
	Biarritz	1015.8	55	NNW	1	o	1013.5	0	54	0	E	2	*	f	2	–	64	54				
	Paris	1015.9	72	NE	1	b	1017.5	+1	57	0	ENE	1	–	b	*	–	79	50				
	Belfort	1017.0	64	E	5	b	1019.1	*	51	-1	ENE	1	*	m	*	–	69	43				
	Lyons	1014.7	69	NNE	1	b	1015.1	*	56	+2	N	2	*	b	*	–	75	52				
	Nice	1013.3	60	–	0	bc	1013.7	0	61	-4	–	0	*	bc	2	–	73	54				
	Perpignan ..	1013.5	75	NW	1	b	1013.0	0	64	+5	–	0	–	b	*	–	84	52				
	Sanguinaire ...	*	59	NW	2	m	*	*	60	+3	SSE	3	*	m	3	–	68	52				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018.7	54	NNE	6	o	1015.2	-1	52	-2	NE	5	–	o	4	?	55	50				
	Madrid (8 a.m.)	1011.7	77	ESE	1	c	1011.0	+1	63	+2	S	1	–	b	*	–	81	55				
	Lisbon (7 a.m.)																					
	Gibraltar	1014.9	63	SE	4	b	1014.2	*	62	+2	W	5	*	b	2	–	72	59				
	Malta (8 a.m.) ...	*	*	*	*	*	1015.9	+3	61	+4	WNW	3	–	b	1	–	64	57				
	Azores (Horta, 8 a.m.)	1017.7	*	S	5	f							*									
	Madeira (Funchal)	1020.2	64	NE	3	o	1022.7	+2	57	-2	?	3	–	o	2	–	66	57				
YESTERDAY'S REPORTS		26th ..., 8 P.M. G.M.T.					24th ....., 7 A.M. G.M.T.															
ITALY.	Venice	1017.7	64	NE	2	c	1016.0	0	61	+4	–	0	*	r	3	1	*	*				
	Turin	1017.6	64	–	0	b	1015.6	0	59	+2	–	0	*	b	*	–	*	*				
	Viesti	1014.8	54	NW	4	o	1010.6	0	61	+4	NW	2	*	o	3	–	*	*				
	Pesaro	1016.4	61	NW	1	o	1015.4	0	61	+6	NW	2	*	b	0	–	*	*				
	Leghorn	1017.7	64	–	0	b	1016.2	0	63	+9	–	0	*	b	4	–	*	*				
	Rome	1014.9	57	SW	1	c	1011.9	+1	57	+3	NW	1	*	b	*	–	*	*				
	Brindisi	1006.6	54	NW	1	o	1008.3	-4	57	+3	NNE	1	*	o	0	5	*	*				
	Cagliari	1014.4	64	W	4	c	1017.5	0	48	0	NW	4	*	b	3	3	*	*				
	Palermo	1014.6	54	N	1	b	1014.3	0	59	0	W	1	*	o	3	2	*	*				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at ...7.15 a.m.

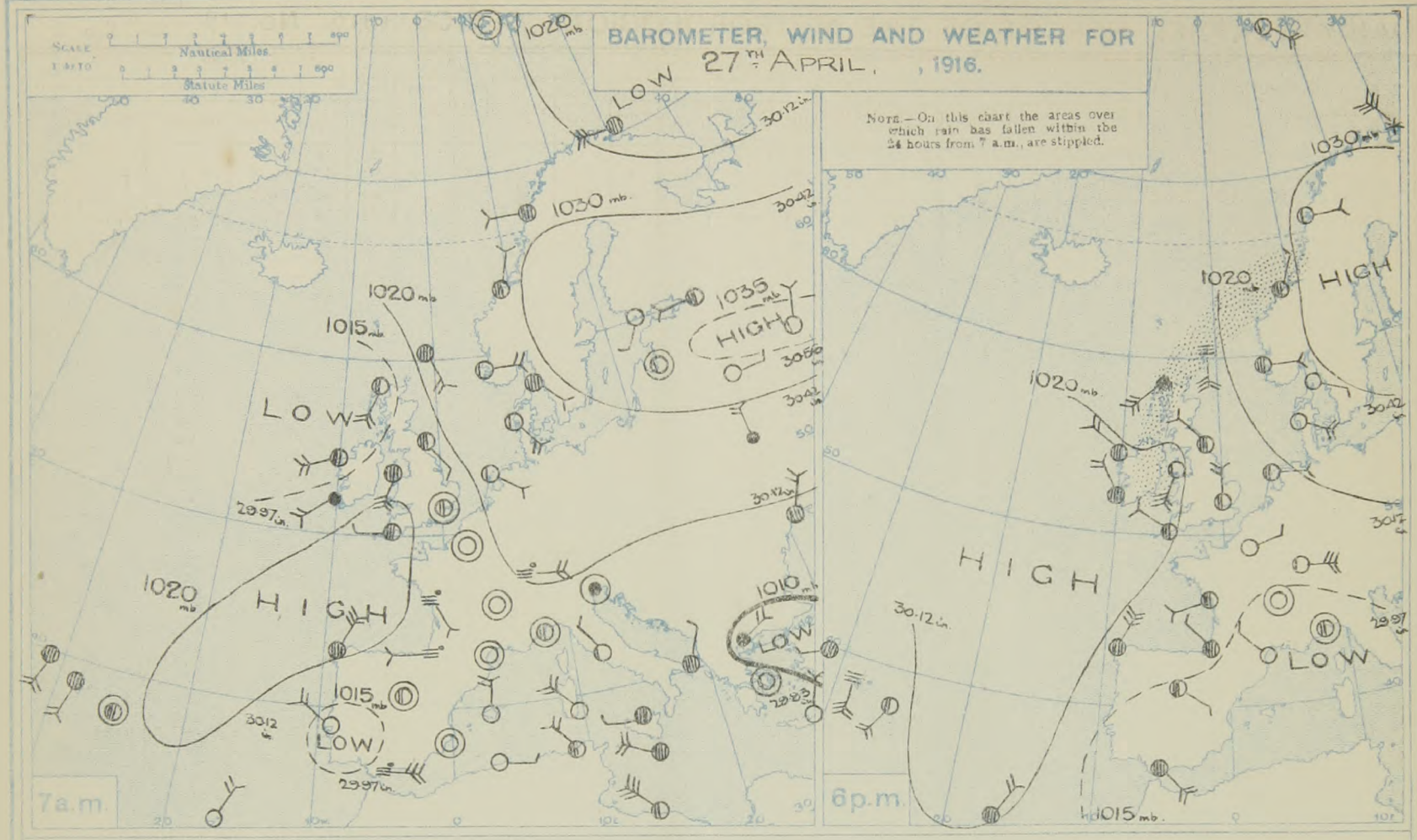
Wind at	7000 feet	ENE 10 miles
"	6000 "	NE by E 10 "
"	5000 "	NE by E 12 "
"	4000 "	ENE 10 "
"	3000 "	ENE 10 "
"	2000 "	ENE 11 "
"	1000 "	NE 13 "
"	Surface	NE by N 7 "

ABERDEEN. 8 a.m.

Wind at	2000 feet	NNW 11 miles
"	1000 "	NNW 18 "
"	500 "	NW 15 "
"	Surface	NW 13 "

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

BAROMETER, WIND AND WEATHER FOR 27TH APRIL, , 1916.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b	Westerly to Northerly breeze, moderate to light;
1	fair to fine , some mist; warm.
2 a, b	Northerly breeze, mostly light; fine generally, some mist; warm.
3	Northerly to North-Easterly breeze, light; fine generally, some mist; warm, probably becoming close and thundery locally.
4 a, b	
5	
6 a, b	Same as Nos. 0 and 1.
7 a, b	Same as No. 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b	Same as No. 2.
10 a, b	
Western Channel and Bay 11	North-Easterly breeze, light to moderate; sea moderate; fair, local mist or fog; moderate temperature

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

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 28TH APRIL, 1916.

GENERAL INFERENCE.

Quiet anticyclonic conditions are likely to prevail, but with a tendency to the development of an electrical state of the atmosphere over the southern districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

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

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for APRIL.

LOW 1020 mb. 1025 mb. 32 45 Bar. falling 50 1030 mb. HIGH 50° 52 48 30·42 in. 46 Barometer 47 1025 mb. 50 46 49 HIGH 48 generally 55 51 53 57 30·27 in. 45 54 50° 51 30·12 in. 1025 mb. 56 58 29·97 in. steady 61 60° 54 64 52 Bar. LOW 63 60° 70 62 1015 mb. 57 1020 mb.

Issue No. 19,881

DAILY WEATHER REPORT.

Friday, 28th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	26th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	27th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Velikie Luki	1036·3	50	–	0	b	1035·8	–	46	.	–	0	*	b	*	–	*	37
Gorki	1034·1	48	E	2	b	1032·2	0	50	.	E	1	*	b	*	–	*	37
Helsingfors ...												*				*	*
Hangö	1034·3	37	SSW	1	c	1034·3	+1	37	0	SSW	1	*	b	–	–	*	28
Riga	1035·8	52	–	0	b	1034·9	0	52	+4	–	0	*	b	–	–	*	43
Petrograd	1034·4	54	SW	3	b	1033·3	0	46	-2	W	2	W	c	*	–	63	43
Moscow	1035·8	52	ENE	1	b	1035·3	0	46	+3	NNE	2	*	b	*	–	*	36
Kiev	1029·7	63	NNE	4	bc	1025·0	+1	46	+1	N	3	*	f	*	–	*	45
Kharkov	1027·4	48	E	3	b	1023·4	+1	46	+1	E	3	*	f b	*	1	*	43
Kishinev	1027·7	48	NE	2	c	1022·0	–	50	+5	N	3	*	b	*	i	*	45
Elisabetgrad ...	1025·5	48	NNW	2	c	1021·0	+2	45	-	NE	3	*	c	*	–	*	48
Nicolaiev	1023·7	50	N	2	c	1019·4	*	48	-1	NNE	3	*	c	–	–	*	45
Odessa	1025·0	66	ENE	3	c	1019·8	-1	46	0	NE	3	*	c	c	–	46	–

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	55	48	bc	bc c	1·2
	Banff	-	65	44	bc	bc	8·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	68	42	bc	bc.b	8·5
	Skegness	-	59	44	b	b	11·0
Eng. N.W.	Morecambe	-	58	45	bc	b	5·0
	Blackpool						
	Southport						
Midlands	Buxton	-	66	40	b	b	10·7
	Leamington Spa	-	71	43	b.bc	c.bc	12·0
	Malvern						
	Ross-on-Wye	-	70	42	b	b	11·3
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	–	56	47	c	b	6·8
	Aberystwyth	-	52	47	oc	c.b.o	3·5
	Tenby	-	62	48	bc	bcc	3·7
England, E.	Lowestoft	-	59	49	bc	bc.c	10·8
	Felixstowe	-	60	48	bcm	bcm	11·8
	Walton-on-Naze	-	64	48	b.b	b.bcz	11·0
	Southend-on-Sea	-	71	49	b	b.bc o ut	9·3
England, S.E.	Margate	-	62	48	b	b.bc	11·7
	Ramsgate	-	68	50	bc	bc	11·5
	Hastings	-	68	55	c.b	b	9·9
	Eastbourne	-	70	49	b	b	10·5
	Seaford	-	67	50	b	b	10·7
	Brighton						
	Worthing	-	71	49	b	b	12·0
	Littlehampton						
	Bognor	-	71	45	bc	bc	12·0
	Southsea						
	Bournemouth	-	71	42	b	b	11·4
England, S.W.	Weymouth	-	69	44	z b	bz	9·0
	Torquay	-	62	44	bc.b	b.bc c	11·2
	Paignton	-	64	40	bc	b	11·5
	Penzance	-	56	44	o bc	c	2·7
	Newquay	*	52	44	o	o	0·7
	Ilfracombe						
	Weston-super-Mare ...	-	58	45	bc.b	b.bc.b	10·0
	Bude	-	59	39	o	o	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 Hours ended 9 A.M. To-Day.)	Temperature. In Screen. Min. (24 Hours ended 9 A.M. To-Day.)	Temperature. Min. on Grass. (24 Hours ended 9 A.M. To-Day.)	Rainfall. (24 Hours ended 9 A.M. To-Day.)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	53	73	5·4	72	50	40	-	bz	bz	b.c
City (Bunhill Row)	*	*	8·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	40	70		76	53	40	-	b	b	bc
Camden Sq. (Brit. Rainfall)	36	67	9·7	77	52	47	-	b	b	*
Hampstead (Reservoir) ...	*	74	10·9	76	49	41	-	b	bc	bc
Richmond Park ...	*	*	10·5							
Kew. (See front page.)	*	*	10·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	39	73	8·9							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1594 Joules	30·5 Milliwatts.	60 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	60	44	38	bcw.o	o g bc	bc	6·8
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	77	50	40	b b3	b3	b3.c3	*

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

28th & 29th April 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4·30	11·50	7·19
	4·28	11·50	7·12
Greenwich	4·41	11·57	7·15
	4·39	11·57	7·16
Wick	4·29	12·9	7·50
	4·26	12·9	7·52
Valencia	5·20	12·38	7·57
	5·18	12·38	7·58

NOTES ON YESTERDAY'S WEATHER.

Temperature varied greatly, maxima ranging from 48° at Castlebay to 77° in London. Slight showers fell locally in the north and west. Sunshine was variable between none and over 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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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 120. Saturday 29th April

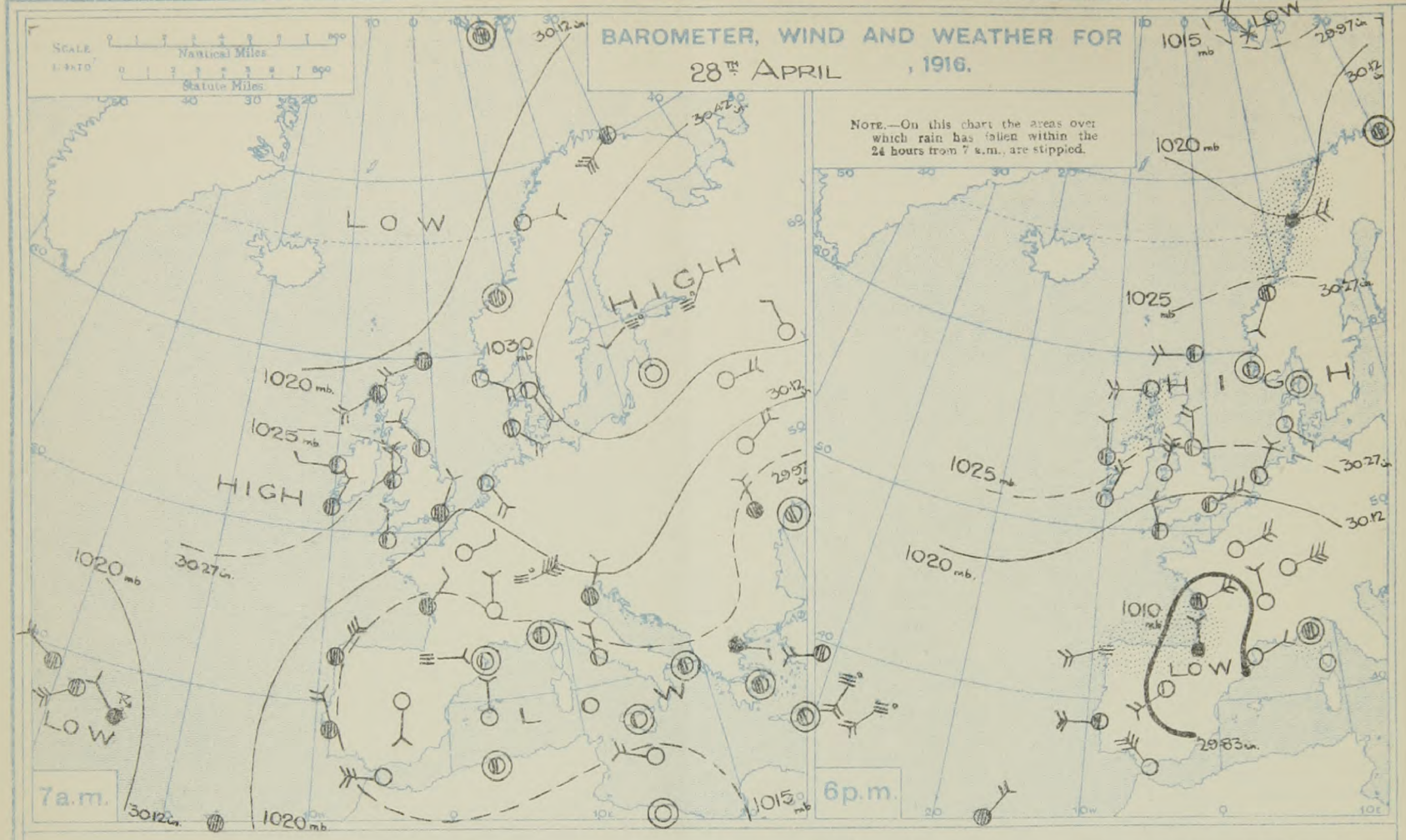
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1025·5	50	W	3	bc	1027.5	0	46	0	WSW	2	W	bc	1	–	51	41	om	c.bc	bc	*
	Deerness (Orkney)	1026·4	48	SE	3	c	1028.4	*	45	-1	WNW	2	SW	c	1	–	55	44	bc	bc c	c	4.0
	Stornoway ...	1024.0	50	W	4	b	1028.6	+1	46	-1	W	1	–	c	1	0.3	56	35	odp.c	c.b	bc.c	8.2
	Castlebay (Barra Isd.)	1027.1	51	WNW	2	o	1028.5	0	45	-2	N	3	–	b	3	Trace	53	42	d.rf c	c.o	o.b	3.6
	Glasgow ...	1025.2	59	E	2	bz	1027.9	+2	43	-6	E	1	–	mc	*	–	63	40	b bc.c	bc c.bc	bz bw	10.5
	Eskdalemuir ...	1025.7	53	NE	4	bc	1027.4	+1	41	-4	NNW	4	–	bc	*	–	58	39	o,oz	oz c.bc	bc b	3.3
	Malin Head ...	1027.1	50	NW	2	cm	1027.0	0	46	0	NE	2	NE	bcm	1	–	51	43	cm	om	bcm.f	1.0
	Blacksod Point	1027.1	50	N	2	bcz	1025.6	-1	44	-3	ENE	3	NE	cm	3	–	52	43	bcz	bcz	cme.cm	*
	Valencia ...	1024.7	55	NNE	3	b	1021.8	-1	51	+3	ENE	5	NE	b	3	–	56	48	c bc	b	bc.b	12.4
	Roche's Point	1025.0	59	NNW	3	b	1022.6	*	49	+1	NW	2	E	c	2	–	59	46	b.bc.c	c.bc.b	b.bc.c	*
	Birr Castle ...							*							*							
	Donaghadee ...	1024.2	49	N	4	bz	1025.6	0	45	-1	N	3	–	bmc	3	0.2	51	43	bz	bz	bz.bcm	*
	Liverpool (Bidston)	1023.4	49	W	2	m	1023.9	0	50	+5	NE	1	–	b	1	–	53	45	om	bcm	bm	3.4
	Holyhead ...	1023.9	50	NNE	5	bz	1023.1	+1	49	+3	NE	5	–	cm	4	–	53	46	cf.o.c	c.bc.b	b.bc.cm	6.7
	Pembroke (St. Ann's)	1020.9	51	N	4	bq	1021.1	+1	53	+5	NE	3	N	bc	2	–	55	48	b	bq	bc	13.8
	Scilly (St. Mary's)																					
	Falmouth ...	1017.5	60	NNW	1	bcz	1017.7	+1	54	+9	NE	3	–	b	*	–	65	44	b	b.bc	ct.bc.b	9.3
	Jersey (St. Aubin)	1015.1	64	NE	3	b	1015.2	*	55	+1	ENE	5	–	b	4	Trace	69	52	bc.og	ogf c.b	b	9.5
	Portland Bill ...	1017.8	61	NE	3	bc	1018.2	+1	52	-2	NE	4	–	b	3	–	71	50	b. bc	bc, ct	b.bc	*
	Dungeness ...	1018.3	54	ENE	4	bc	1019.3	0	53	-3	ENE	3	E	b	3	–	62	49	bcz	bc	bc	*
	Dover	1019.3	56	NE	4	b	1021.1	+4‡	58	+3	NE	3	–	b	2	–	69	50	b.bc.b	b	b	12.3
	Wick	1026.9	48	–	0	bc	1028.8	+2	44	-3	S	1	–	f	1	–	51	43	bc.c	c.bcm	bc.ofe	*
	Nairn	1025.5	57	E	1	c	1028.6	*	46	-5	E	1	–	cm	1	–	63	40	b.bc	b.bc	cm	8.8
	Aberdeen ...	1026.9	50	E	1	b	1028.8	+1	42	-8	–	0	–	om	2	0.2	59	41	bc	bc.b	bmf.om	7.6
	Leith	1025.7	54	E	1	b	1028.0	+1	43	-7	E	1	–	o	3	–	60	42	b	b	bcm.o	*
	Tynemouth ...	1025.1	48	N	3	bcm	1027.1	+1	42	-7	N	1	–	ofe	2	–	58	41	bcm	bcm	c.fe	*
	Spurn Head ...	1024.1	49	NNE	5	bcm	1025.1	0	45	-3	NE	5	–	fe	4	0.1	51	41	bc.om	o.bcm	bm	0.7
	Yarmouth ...	1022.2	52	NE	3	bc	1023.6	+1	51	0	E	2	–	b	2	–	57	42	bcm	bcm	bm	10.3
	Clacton-on-Sea	1020.5	60	ENE	3	bc	1021.9	+1	56	0	ENE	2	–	b	2	–	62	49	c.bc	bc	bc b	10.2
	Nottingham ...	1022.6	56	NE	4	c	1024.3	*	46	-6	NE	3	NE	om	*	–	64	44	b.bcm	bc.c	c	5.6
	Benson (Oxon.) ...	1019.8	60	NNE	3	b	1021.8	+2	48	-1	NNE	2	–	b	*	–	67	42	bz	b	b	*
	Sth Farnborough	1018.9	65	E	4	bc	1020.7	+1	53	+3	NE	2	–	bmw	*	–	71	44	m.c.bc	bc.b.bc	bm	8.5
	London (Kew Obsy.)	1019.7	66	ENE	3	b	1021.5	+2	53	0	NE	2	–	bm	*	–	70	46	om.b	b	b.bmc	7.7
NORTHERN EUROPE.	Spitsbergen ...	1014.9	16	NNW	3	s	1016.4	+1	13	-1	E	6	*	bc	*	*	28	12				
	Vardö	1022.0	32	–	0	c	1018.3	-3	34	+2	NW	2	–	o	2	*	34	25				
	Bodö	1020.0	43	E	4	r	1021.1	-2	43	-2	SW	4	–	c	2	6	46	39				
	Christiansund	1026.3	46	SW	2	c	1026.4	0	45	-5	SW	3	–	c	3	1	50	45				
	Skudesnaes ..	1026.9	46	–	0	b	1026.9	0	52	0	–	0	–	b	1	–	52	41				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1028.8	48	–	0	b	1027.4	-1	54	+6	SW	1	–	b	1	–	54	43				
	Blaavands Huk	1027.4	63	SSE	1	b	1027.8	0	54	+2	E	1	–	b	1	–	64	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1022.6	57	NE	2	b	1024.0	+1	54	-1	ENE	3	–	b	1	–	66	52				
	C. Gris Nez ...	1018.3	57	NE	3	b	1020.0	+1	56	+5	E	4	*	b	2	–	68	48				
	La Hève	1015.7	70	SE	2	m	1017.3	*	54	-1	ENE	4	*	m	2	–	77	52				
	Brest (St. Mathieu)	1014.3	55	NNE	4	c	1013.0	-1	55	+4	NE	4	*	bc	1	–	68	46				
	Rochefort (Ile d'Aix)	1008.8	70	ENE	4	c	1008.7	+3	55	-3	E	2	*	r	*	3	75	54				
	Biarritz	1009.5	56	N	2	tlr	1011.7	+1	54	0	WNW	1	*	r	2	4	63	54				
	Paris	1016.2	64	E	3	b	1016.0	0	55	-2	ENE	3	–	b	*	–	72	45				
	Belfort	1017.0	57	ENE	6	b	1017.6	*	51	0	ENE	6	*	m	*	–	65	41				
	Lyons	1011.0	64	NNW	2	b	1013.7	*	52	-4	NE	1	*	bc	*	–	72	44				
	Nice	1015.9	51	–	0	c	1015.0	0	54	-7	–	0	*	c	2	3	64	50				
	Perpignan ..	1010.4	61	ENE	2	o	1012.6	0	59	-5	SE	2	SE	o	*	–	77	54				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1014.4	52	WSW	4	f	1011.1	-2	54	+2	SW	3	–	f	3	4	54	52				
	Madrid (8 a.m.)	1007.7	70	WSW	3	b	1013.9	+2	50	-13	SW	1	–	b	*	–	77	45				
	Lisbon (7 a.m.)	1017.5	54	WNW	4	c	1017.2	0	54	-1	W	2	–		5	–	61	52				
	Gibraltar	1017.3	60	NW	6	b	1016.9	*	55	-4	W	4	–	b	3	–	69	54				
	Malta (8 a.m.) ...	*	*	*	*	*	1011.9	0	63	+2	SSW	4	–	b		–	68	57				
	Azores (Horta, 8 a.m.)	1018.4	*	SSW	4	m	1012.2	+1	61	0	WSW	4	*	c	4		68	61				
	Madeira (Funchal)	1022.3	64	NNE	3	o	1021.6	0	57	0	NNE	2	N	bc	2	–	64	57				
YESTERDAY'S REPORTS		24th ..., 8 P.M. G.M.T.					28th ..., 4 A.M. G.M.T.															
ITALY.	Venice	1018.0	56	NE	4	r	1017.6	0	52	-9	NNE	2	*	o	4	9	*	*				
	Turin	1013.9	66	NE	6	tlr	1016.1	0	52	-7	NE	5	*	o	*	–	*	*				
	Viesti	1010.9	61	N	2	o	1014.6	0	59	-2	NE	2	*	b	4	–	*	*				
	Pesaro	1016.3	59	N	4	bc	1016.6	0	55	-6	NE	4	*	r	5	–	*	*				
	Leghorn	1015.0	61	–	0	b	1014.9	0	59	-4	E	2	*	bc	4	1	*	*				
	Rome	1013.0	61	NW	2	b	1014.2	0	57	0	N	2	*	b	*	–	*	*				
	Brindisi	1012.9	57	NE	4	b	1014.0	0	57	0	–	0	*	c	2	1	*	*				
	Cagliari												*				*	*				
	Palermo	1015.0	61	–	0	b	1013.7	0	64	+5	–	0	*	b	2	–	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.35 a.m.
Wind at
4000 feet E 27 m.p.h.
3000 " E by S 30 "
2000 " E by S 25 "
1000 " E 24 "
Surface NE by E 8 "

Eskdalemuir ~
Aurora
observed during the night.

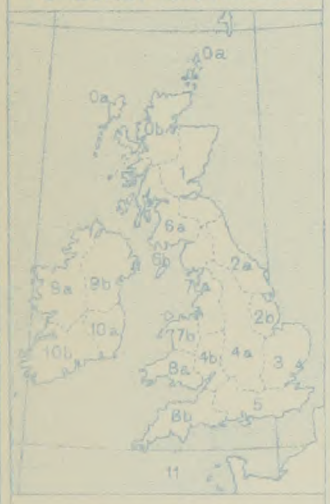
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 28th APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



0 (a, b) } Light variable breezes; fair to fine; moderate temperature.

1 } Light variable breezes; fair to fine; moderate temperature.

2 (a, b) } Light variable breezes; fair to fine; moderate temperature.

3 } North-Easterly to Easterly breezes, light to moderate; fine generally, becoming thundery locally; warm.

4 (a, b) } North-Easterly to Easterly breezes, light to moderate; fine generally, becoming thundery locally; warm.

5 } North-Easterly to Easterly breezes, light to moderate; fine generally, becoming thundery locally; warm.

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

7 (a, b) } Same as Nos. 3 to 5.

8 (a, b) } Same as Nos. 3 to 5.

9 (a, b) } North-Easterly to Easterly breezes, light to moderate; fine to cloudy, local mist; moderate temperature.

10 (a, b) } North-Easterly to Easterly breezes, light to moderate; fine to cloudy, local mist; moderate temperature.

11 Western Channel and Bay } Northern part, North-Easterly to Easterly breezes, moderate to fresh; southern part, Westerly breeze, moderate; changeable, some rain, thunder and mist or fog; moderate temperature.

STORM WARNINGS.

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

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

No Warnings Issued.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

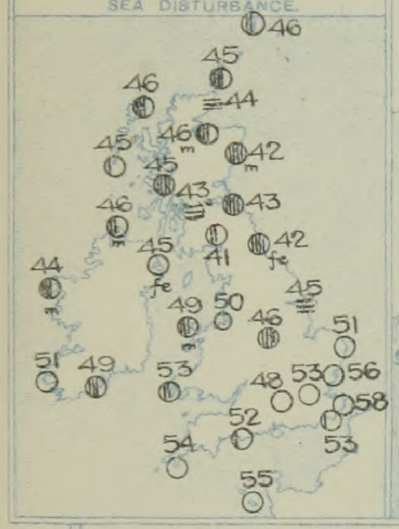
Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 29TH APRIL, 1916.

GENERAL INFERENCE.

The general situation continues favourable to fine weather, but the depression over the Bay of Biscay may produce local thunder in the south.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

Scale 1:12·10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

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

LOW

40°

falling

30·12 in.

Bar.

1020 mb.

30·27 in.

1025 mb.

HIGH

Barometer

1

rising

50°

Little

change

1020 mb.

30·12 in.

1015 mb.

1010 mb. LOW Bar. 29·83 in.

rising

1015 mb.

29·97 in.

1020 mb.

HIGH

Issue No. 19,882

DAILY WEATHER REPORT.

Saturday, 29th April 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	27th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	28th. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel												*				*	
Velikieluki	1030·9	54	–	0	b	1030·3	–	50	+4	NW	2	*	b	*	–	*	*
Gorki	–	–	–	–	–	1026·4	–	52	+2	ENE	3	*	b	*	–	*	*
Hango	1032·8	37	–	0	c	1032·3	0	37	0	–	0	*	m	–	–	*	*
Riga	1032·7	50	NNE	2	b	1031·5	0	54	0	–	0	*	b	–	–	*	*
Petrograd	1032·2	39	WNW	3	c	1032·8	+2	46	0	NE	2	–	m	*	–	50	39
Moscow	1030·0	54	WSW	1	b	1030·1	0	50	+4	N	1	*	b	*	–	*	–
Kiev	1022·6	50	ENE	3	0	1017·9	−2	46	0	ENE	3	*	s	*	1	*	45
Kharkov	1022·6	54	E	3	0	1022·6	0	52	+6	E	2	*	c	*	–	*	*
Kishinev	1018·6	48	N	3	0	1013·7	–	48	−2	N	2	*	0	*	1	*	48
Elisabetgrad ...	1019·4	50	NE	3	bc	1015·5	−1	52	+7	ENE	3	*	0	*	5	*	48
Nicolaiev	1016·3	54	NNE	2	b	1014·4	*	54	+6	–	0	*	bc	0	4	*	46
Odessa	1017·5	52	ENE	2	r	1012·4	0	54	+8	E	2	*	c	0	–	*	42

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0·3	53	46	bc	b	9·3
	Banff	–	65	3	bc.b	bc	8·5
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	62	40	b	b.bc	12.4
	Skegness	–	52	46	obc	bc	7.1
Eng. N.W.	Morecambe						
	Blackpool						
	Southport						
Midlands.	Buxton						
	Leamington Spa	–	65	45	bc	c.bc.c	6·7
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	–	52	39	bc	bc	4·0
	Colwyn Bay	–	54	43	o.bc	bc	4·5
	Llandudno	–	59	42	cm	b	4·8
	Aberystwyth	–	57	41	oc.o	c.bc	5·0
	Tenby	–	63	38	b	b	12·6

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	–	55	48	c.bc	bc	10·6
	Felixstowe	–	58	50	bcm	bc	11·5
	Walton-on-Naze						
	Southend-on-Sea	–	68	52	b	b	11·8
England, S.E.	Margate	–	60	49	b	b	10·5
	Ramsgate	–	62	48	bc	bc	10·6
	Hastings	–	70	57	b	b	12·4
	Eastbourne	–	68	55	b	b	12·2
	Seaford	–	72	54	b	b	11·8
	Brighton						
	Worthing	–	72	55	b	b	10·7
	Littlehampton	–	71	[illegible]	b	b	10·1
	Bognor	–	71	54	a.bc	bc	10·1
	Southsea						
	Bournemouth	1	73	46	bc	tlr	7·8
England, S.W.	Weymouth	1	73	47	2.b	b.tlr.o	9·5
	Torquay	–	70	45	b	b.bc.co	10·8
	Paignton						
	Penzance	–	60	45	o.bc	bc.b	9·0
	Newquay	*					
	Ilfracombe						
	Weston-super-Mare ...	–	68	42	b	b.bc	9·5
	Bude	–	69	42	c.bc.b	b	10·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	47	59	10·7	71	44	33	–	bc	bc	b
City (Bunhill Row)	*	*	10·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	49	60	8·8	72	49	43	–	b	b	bc.b
Camden Sq. (Brit. Rainfall)	45	57	7·4	75	47	40	–	b	b	
Hampstead (Reservoir) ...	*	60	9·2	69	46	46	–	b	b	* b
Richmond Park ...	*	*	8·8							
Kew. (See front page.)	*	*	7·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	48	66	6·9							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1540 Joules	29·4 Milliwatts.	60 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	72	53	45	b	b.bc	bc.b	*

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

29/30 April, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4·28	11·50	7·12
	4·26	11·50	7·13
Greenwich	4·39	11·57	7·16
	4·37	11·57	7·17
Wick	4·26	12·9	7·52
	4·23	12·9	7·54
Valencia	5·18	12·38	7·58
	5·16	12·38	7·59

NOTES ON YESTERDAY'S WEATHER.

Afternoon temperature ranged from 51° at various stations to 73° at Bournemouth and Weymouth. The day was all but rainless. Sunshine ranged up to 12·8 hours at Pembroke. Aurora was seen at Eskdalemuir A thunderstorm occurred locally on the south coast.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 121

Sunday 30th April

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1027·1	48	W	2	0	1023·6	-1	45	-1	W	2	-	0	1	-	51	43	bc	bc.o	o	*
	Deerness (Orkney)	1027·1	46	S	2	0	1023·3	*	45	0	SW	2	SW	c	2	-	50	48	c.o	o	ac	2·4
	Stornoway ...	1026·8	50	N	3	b	1024·5	-1	45	-1	N	1	-	o	1	-	54	37	b	b	b.o	12·1
	Castlebay (Barra Isd.)	1025·8	48	N	4	b	1024·0	0	45	0	NNW	3	-	b	3	-	52	41	b	b	b	13·7
	Glasgow ...	1023·2	50	ENE	3	b	1024·2	-1	41	-2	ENE	2	-	cm	*	-	56	40	m.b	b	b.bc.c.o	9·3
	Eskdalemuir ...	1025·1	46	NE	4	bc	1023·9	-1	39	-2	NNE	4	-	om	*	-	53	38	bc	bc	bc.om	7·2
	Malin Head ...	1024·4	51	NE	2	b	1023·0	0	47	+1	E	2	-	bm	2	-	55	45	bcm	b	bcm	11·7
	Blacksod Point	1022·9	48	ENE	4	bc	1021·1	-1	46	+2	ENE	2	NE	bcz	2	-	53	44	bc	bcm	bcm.b	*
	Valencia ...	1018·8	64	NE	2	bcz	1017·3	0	56	+5	ENE	1	NE	bcz	*	-	64	49	b.bcz	c.o.c.bcz	b.bcz.	10·9
	Roche's Point	1020·4	63	E	2	b	1018·6	*	56	+7	E	2	-	b	1	Trace	65	49	bz	bz	bz	*
	Birr Castle ...	1020·8	61	NE	2	bc	1020·0	*	46	0	NE	1	-	m	*	-	63	45	c	bc.	bcf	9·8
	Donaghadee ...	1022·7	51	N	3	bcm	1022·4	+1	44	-1	NNE	3	N	bcm	3	Trace	53	43	bz	bcm	bcfe	*
	Liverpool (Bidston)	1020·6	60	ENE	3	b	1020·8	-1	45	-5	ENE	2	-	b	2	-	68	42	b	bm	bm	9·8
	Holyhead ...	1020·2	54	ENE	4	bm	1019·4	-1	45	-4	ENE	5	-	bm	4	-	60	45	c.bc.b	b.bcm	bm	8·6
	Pembroke (St. Ann's)	1018·2	65	N	2	b	1016·7	-1	49	-4	E	3	-	b	2	-	65	52	b	b	b	12·4
	Scilly (St. Mary's)																					
	Falmouth ...	1015·2	61	ENE	4	b	1014·3	-1	54	0	NE	3	-	b	*	-	65	51	b	b	b	12·9
	Jersey (St. Aubin)	1012·1	62	ENE	5	b	1011·3	*	55	0	ENE	4	-	b	4	-	67	51	b	b	b	12·7
	Portland Bill ...	1016·5	53	E	3	b	1014·0	-1	50	-2	NE	5	E	bc	4	-	59	48	b	b	b.bc	*
	Dungeness ...	1016·4	55	NE	4	b	1015·2	0	54	+1	NE	3	-	b	3	-	60	49	bc	b	b.bc.b	*
	Dover	1017·7	53	NE	5	b	1016·1	0	55	-3	N	3	-	b	3	-	65	44	b	b	b	13·1
	Wick	1027·0	45	-	0	c	1023·1	-2	44	0	-	0	-	bc	2	-	46	42	fe.om	fe.o.c.m	ombcm	*
	Nairn	1025·5	49	NE	2	bc	1023·3	*	45	-1	-	0	-	cm	0	-	52	41	m.e	m.bc	bc.cm	3·7
	Aberdeen ...	1027·5	45	E	2	0	1024·5	-1	45	+3	-	0	-	bm	2	-	49	34	m.o.me	o.c	bc.bwm	2·3
	Leith	1026·3	44	E	1	0	1024·4	-1	42	-1	E	1	-	o	3	-	60	41	om.o	o	om.o	*
	Tynemouth ...	1025·6	43	NNE	3	of	1023·6	-1	42	0	NNE	3	-	of	3	-	43	41	of	om	ofe	*
	Spurn Head ...	1023·2	44	NE	5	f	1021·5	-1	42	-3	NNE	4	-	f	4	Trace	46	40	f	f	f	0·0
	Yarmouth ...	1021·2	51	NE	3	b	1018·8	0	49	-2	NE	2	-	b	3	-	57	46	bm	b	b	13·2
	Clacton-on-Sea	1019·2	57	ENE	4	b	1017·3	0	53	-3	NNE	3	NE	bc	2	-	61	49	bz	bz	b.bc	13·6
	Nottingham ...	1021·4	56	NE	4	b	1020·9	*	43	-3	NE	3	NE	o	*	-	62	41	oc.b	b	b.bc	7·7
	Benson (Oxon.) ...	1017·6	63	E	4	b	1018·2	0	44	-4	NE	4	-	o	*	-	69	48	bc	b	b.o	*
	Sth Farnborough	1017·2	63	ENE	4	b	1016·8	0	47	-6	NE	3	-	c	*	-	70	43	m.b	b	b.o	13·4
	London (Kew Obsy.)	1018·1	64	E	4	b	1017·6	0	48	-5	NE	3	E	bc	*	-	68	44	bm.b	b	b.bc	12·8
NORTHERN EUROPE.	Spitsbergen ...	1015·1	5	SSE	1	b	1014·9	+1	27	+14	-	0	*	m	*	*	27	-8				
	Vardö	1012·8	32	W	1	0	1011·7	0	32	-2	NW	6	-	b	4	*	34	28.				
	Bodö	1019·9	41	SW	4	c	1017·0	-2	41	-2	SW	5	-	r	3	5	43	37				
	Christiansund	1025·5	45	W	2	0	1023·1	0	45	0	-	0	-	c	3	-	46	43				
	Skudesnaes ..	1024·2	43	N	4	b	1021·6	-2	45	-7	N	3	-	b	2	-	54	39				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1024·0	54	W	1	b	1019·3	-1	52	-2	NW	2	-	b	2	-	61	43				
	Blaavands Huk	1023·0	55	NNE	3	b	1021·6	-2	52	-2	ENE	1	-	bc	1	-	55	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1019·8	55	NE	5	0	1019·1	0	54	0	ENE	3	-	b	2	-	57	52				
	C. Gris Nez ...	1016·3	52	NE	5	b	1015·3	0	55	-1	E	3	*	b	2	-	57	48				
	La Hève	1013·3	68	E	3	m	1012·3	*	57	+3	ENE	4	*	b	2	-	75	54				
	Brest (St. Mathieu)	1011·0	66	NE	4	b	1011·0	0	52	-3	E	2	*	o	1	-	72	48				
	Rochefort (Ile d'Aix)	1010·6	59	WNW	1	0	1009·2	0	55	0	SE	1	*	c	*	1	70	54				
	Biarritz	1008·6	63	E	1	c	1007·8	0	57	+3	SSE	1	*	bc	1	-	64	54				
	Paris	1012·7	66	ENE	2	b	1012·4	+1	59	-4	ENE	2	-	b	*	-	73	50				
	Belfort	1013·1	63	ENE	6	c	1011·1	*	52	+1	E	6	*	m	*	-	66	43				
	Lyons	1012·0	57	-	0	0	1011·7	*	50	-2	-	0	*	bc	*	-	?	?				
	Nice												*									
	Perpignan ..	1012·0	57	NE	1	0	1010·4	0	59	0	-	0	SE	bc	*	-	66	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1009·3	55	SW	3	f	1008·8	0	54	0	SW	5	-	o	2	1	57	54				
	Madrid (8 a.m.)	1009·9	61	W	1	c	1012·0	0	50	0	SSW	2	-	o	*	-	66	45				
	Lisbon (9 a.m.)	1016·0	57	WNW	4	0	1012·6	0	55	+1	SW	1	-	o	2	-	57	52				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1011·3	0	61	-2	SE	2	-	o	2	-	73	59				
	Azores (Horta, 8 a.m.)	1010·9	*	WNW	7	bc	1009·9	0	57	-4	W	3	*	c	2	-	68	57				
	Madeira (Funchal)	1018·7	61	NNE	3	0	1014·1	-1	63	+6	SW	4	W	r	2	?	63	57				
YESTERDAY'S REPORTS		28th April, 8 P.M. G.M.T.					29th April, 7 A.M. G.M.T.															
ITALY.	Venice	1016·2	57	-	0	b	1013·6	0	52	0	-	0	*	b	2	.	*	*				
	Turin	1018·9	50	-	0	b	1016·2	0	48	-4	-	0	*	b	*	3	*	*				
	Viesti	1013·0	59	N	4	b	1013·3	0	55	-4	-	0	*	bc	*	-	*	*				
	Pesaro	1016·9	52	NW	2	b	1014·9	0	64	+9	NNW	4	*	b	4	3	*	*				
	Leghorn	1014·6	55	-	0	b	1014·8	0	57	-2	-	0	*	b	1	Trace	*	*				
	Rome	1014·2	55	-	0	r	1012·9	0	54	-3	N	2	*	b	*	20	*	*				
	Brindisi	1013·1	55	NNE	2	b	1012·2	0	54	-3	SE	2	*	r	3	Trace	*	*				
	Cagliari	1014·4	73	NW	4	b	1012·1	0	52	-	NW	4	*	c	3	-	*	*				
	Palermo												*				*	*				

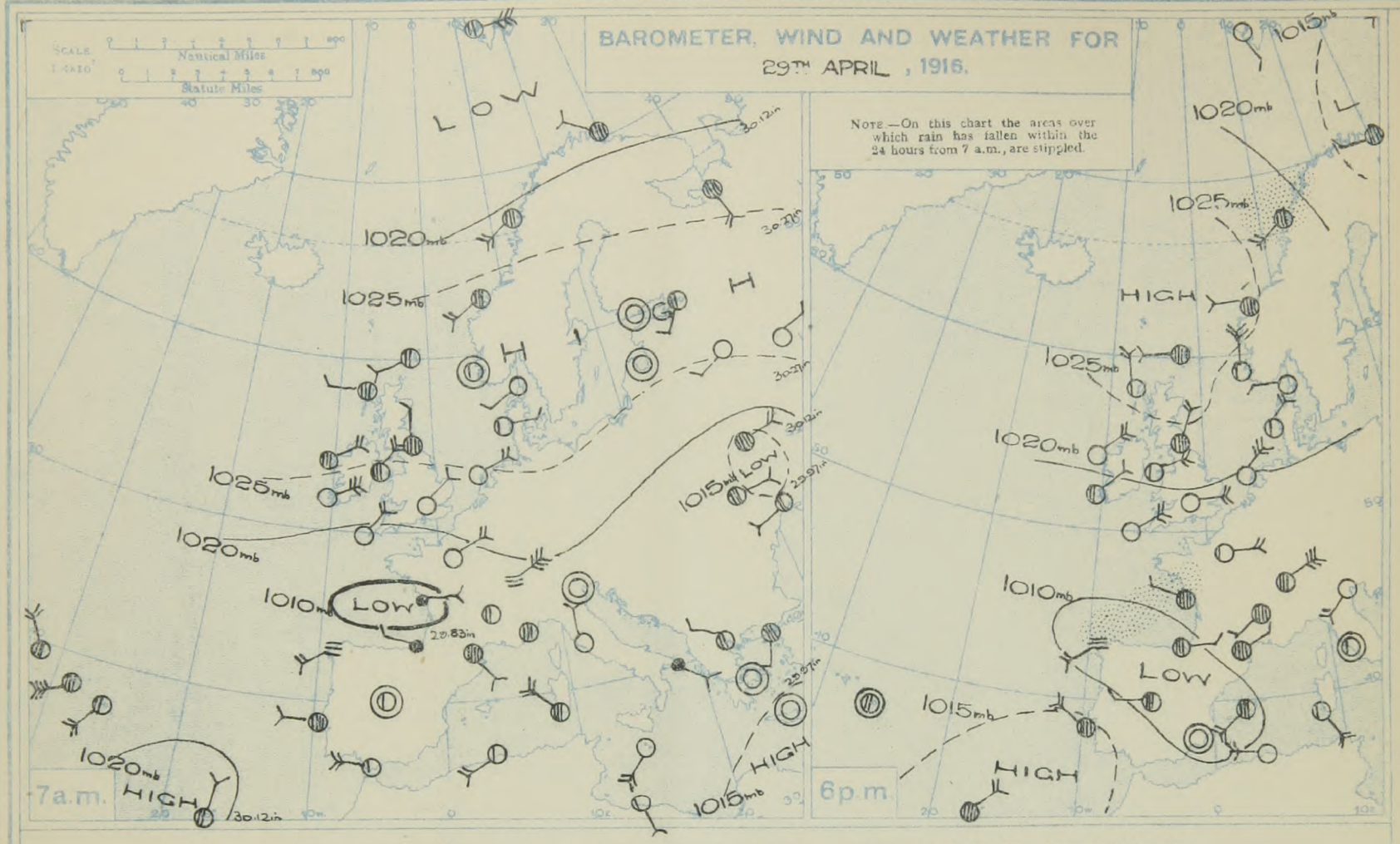
RAINFALL

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.

BAROMETER, WIND AND WEATHER FOR 29TH APRIL, 1916.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, 0 b, 1, 2 a, 2 b	Light variable breezes, mainly Easterly; fair to fine; local mist; moderate.
3, 4 a, 4 b, 5	North-Easterly to Easterly breeze, moderate or fresh at times; fine to cloudy, local thunder not improbable; warm.
6 a, 6 b, 7 a, 7 b	Same as Nos. 0 to 2.
8 a, 8 b	Same as Nos. 3 to 5.
9 a, 9 b	Same as Nos. 0 to 2.
10 a, 10 b	Same as Nos. 0 to 2.
Western Channel and Bay 11	Easterly breeze, light to moderate in the north; Westerly, fresh in the south; sea moderate; fine to cloudy, local thunder, some mist or fog; mild.

FURTHER OUTLOOK.

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

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 30th APRIL, 1916.

GENERAL INFERENCE.

There is a tendency for some increase of cloud, and local thunder seems probable in the south.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Normal Temperature of the Sea.

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

Scale of Tints for APRIL.

1015mb 1010mb LOW 1020mb 40° 1020mb 50° 1015mb 1010mb LOW 1010mb 60° 1015mb HIGH

HIGH Barometer slightly falling

Barometer steady

29.97in 30.12in 29.83in 29.97in 29.83in 29.83in 29.97in

Issue No. 19283.

DAILY WEATHER REPORT.

Sunday, 30th. April, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	28th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	29th. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1024·0	32	–	0	0	1022·6	?	28	.	9	3	*	o	*	–	*	21
Vilikjeluki	.	.	.	.	.	1025·0	?	30	0	SW	1	*	b	*	–	*	*
Gorki	1022·9	55	E	2	b	.	.	.	.	.	.	*	.	.	.	*	*
Hangö	1029·2	39	–	0	c	1026·1	−2	41	−16	–	0	*	b	a	–	*	37
Riga	?	54	–	0	b	1025·0	−1	57	+3	–	0	*	b	*	–	*	48
Petrograd	1027·5	52	–	0	b	1026·3	−2	48	+2	SSW	1	N	bc	*	–	61	39
Moscow	1027·1	57	NNE	2	b	1028·7	−1	50	0	ENE	1	*	b	*	–	*	48
Kiev	1015·9	60	ENE	4	0	1013·5	0	52	+6	E	3	*	0	*	14	*	46
Kharkov	1019·0	55	E	3	0	1015·3	−1	52	0	ESE	3	*	0	*	19	*	50
Kishinev	1013·7	53	NW	2	b	1015·5	+2	45	−3	ESE	2	*	c	*	–	*	41
Elisabetgrad ...	1013·3	53	–	0	b	1014·6	+2	46	−6	SSW	1	*	f	*	–	*	43
Nicolaiev	1013·3	54	SW	4	b	1014·6	*	50	−4	–	0	*	b	0	–	*	46
Odessa	1018·9	54	WSW	4	b	1015·4	+2	51	−2	W	2	*	b	0	–	*	?

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

STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
	mm.§	°F.	°F.			Hr.
Scotland. Oban	–	59	40	bc	c	5·2
Scotland. Banff	–	54	43	c·o	bc	8·8
Scotland. St. Andrews				*	*	
Engl. N.E. Harrogate	–	48	41	o.c	bc.c.o	1·0
Engl. N.E. Skegness	–	47	41	m.o.g	o.g.m	0·1
Engl. N.W. Morecambe						
Engl. N.W. Blackpool						
Engl. N.W. Southport	–	69	48	b	b	11·8
Midlands. Buxton	–	62	39	b	b	12·0
Midlands. Leamington Spa	–	67	43	bc	bc.b.	11·0
Midlands. Malvern						
Midlands. Ross-on-Wye	–	66	41	b.w.y	b.bc.	11·8
Wales. Rhyl						
Wales. Colwyn Bay						
Wales. Llandudno	–	58	46	b	b	10·3
Wales. Aberystwyth	–	70	46	o.c.b	c.bc	11·0
Wales. Tenby	–	69	50	b	b	12·5
England, E. Lowestoft						
England, E. Felixstowe	–	57	49	b	b	12·8
England, E. Walton-on-Naze	–	57	49	b.by.b	b	12·6
England, E. Southend-on-Sea	–	67	48	b	b	13·0
England, S.E. Margate	–	56	49	b	b	12·9
England, S.E. Ramsgate	–	60	51	bc	bc	12·8
England, S.E. Hastings	–	68	54	b	b	13·0
England, S.E. Eastbourne	–	64	50	b	b	12·6
England, S.E. Seaford	–	70	49	b	b	13·2
England, S.E. Brighton	–	72	53	bc.b.o	o.b	13·8
England, S.E. Worthing	–	71	52	b	b	?
England, S.E. Littlehampton	–	71	62	b	b	13·0
England, S.E. Bognor	–	70	50	b	b	12·7
England, S.E. Southsea						
England, S.E. Bournemouth	–	70	45	b	b	12·4
England, S.W. Weymouth						
England, S.W. Torquay	–	66	52	b	b	13·1
England, S.W. Paignton	–	66	51	b	b	12·8
England, S.W. Penzance	–	67	53	b	b	12·0
England, S.W. Newquay	*					
England, S.W. Ilfracombe						
England, S.W. Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	39	71	13·2	70	43	40	–	bq	bc	bc
City (Bunhill Row)	*	*	12·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	42	77	13·3	70	45	44	–	b	b.bc	bc
Camden Sq. (Brit. Rainfall)	36	67	12·0	74	44	41	–	b	b	*
Hampstead (Reservoir) ...	*	72	13·4	67	41	?	–	b	bc	bc
Richmond Park ...	*	*	13·0							
Kew. (See front page.)	*	*	12·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	48	73	13·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2067 Joules	39·3 Milliwatts.	70 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	–	67	48	*	o.c.bq	bq	bc.b.bc	9·6
Birmingham ,,	–	65	45	40	bc	c.b	b	8·8
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,	–	67	54	–	bcq	bcq	b.c.q	12·3
S. Kensington (Museum Grounds to 6 p.m.)	–	71	49	39	b	b	b.	*

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

30th April & 1st May 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	4·26 / 4·24	11·50 / 11·50	7·13 / 7·16
Greenwich	4·37 / 4·34	11·57 / 11·57	7·27 / 7·20
Wick	4·23 / 4·20	12·9 / 12·8	7·54 / 7·58
Valencia	5·16 / 5·13	12·38 / 12·38	7·59 / 8·2.

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station. Date and Hour.		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Kensington 25th Noon		Eskdalemuir 26th 7a.m.		Benson 26th Noon		Benson 27th 1230pm		S. Farnborough 27th 5pm.		S. Farnborough 28th 5.23pm.		Benson 29th 11.50pm.	
Heights in Kilometres	4	(35)+4	+8					+13	+9						
	3	+4	+8	+2	+6			+3	+6						
	2	+2	+10	+3	+8	(1·5)−5	+5	+3	+2	−1	+2	−11	−3		
	1	+5	+7	−1	+7	−7	+5	+1	+1	+4	−2	−10	−2	−9	+2
	·5	+1	+2			−5	+6	+3	0	+4	−1	−12	−4	−9	−1
	0	.	.	0	−2	−4	+4	+1	−0	+2	−1	−12	−4	−4	−6

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

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

‡ The barometric change is expressed in half-millibars.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

APRIL, 1916.

Corrections and additions for the month of April are given on this sheet for stations in the British Isles, Scandinavia, Holland, France and "Southern Europe." The data for stations in Iceland will be issued in due course in the form of a separate sheet.

ADDITIONS AND CORRECTIONS TO THE

DATE	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
1.	Scilly	1031·2	51	–	0	b	1028·7	−2	48	−3	ENE	1	–	b	2	–	55	39	bc.b	b	b	6·8
	Spitsbergen	1012·0	−18	SSE	2	s	1007·0	−2	−26	−4	NW	1	*	b	*	*	−17	−35	.	.	.	.
	Vardö	1008·0	25	NW	4	s	1011·3	+3	23	−2	N	5	–	s	5	*	27	19	.	.	.	.
	Bodö	1001·1	34	E	2	b	1008·6	+4	30	−4	E	4	–	b	2	–	37	28	.	.	.	.
	Christiansund	1006·4	39	WSW	6	c	1013·2	+3	37	+1	SW	5	–	r	4	8	39	36	.	.	.	.
	Skudesnaes	1014·4	43	W	4	m	1018·1	+1	48	0	NW	4	–	r	4	10	43	41	.	.	.	.
	The Helder	1029·7	45	SW	2	b	1028·4	0	45	0	W	1	–	bc	1	–	48	48	.	.	.	.
	Lisbon	1019·3	55	NNW	5	b	1017·3	0	52	+6	WNW	2	–	b	2	–	61	46	.	.	.	.
2.	Scilly	1025·2	47	ENE	1	b	1022·5	−1	45	+2	E	1	–	b	2	0·1	51	42	b	b	bm	11·9
3	Scilly	1019·6	52	–	0	bm	1019·9	0	46	+1	WNW	2	–	o	2	0·2	54	43	bm	bm	bc.cm	10·8
	Bodö	1011·8	30	N	2	o	1012·7	−1	28	−11	E	1	–	b	1	–	36	25	.	.	.	.
	Christiansund	1015·4	45	SW	6	c	1013·3	−1	43	−2	–	0	–	c	4	7	46	41	.	.	.	.
	Skudesnaes	1021·6	39	–	0	f	1017·7	0	37	−4	E	1	–	b	1	–	43	37	.	.	.	.
	Nice	1017·3	61	–	0	c	1016·4	*	59	+16	S	1	*	bc	1	–	72	43	.	.	.	.
	Lisbon	1011·7	68	NNW	4	b	1014·0	+1	54	+2	NNE	3	–	b	2	–	68	52	.	.	.	.
	Horta	.	.	.	.	.	1020·3	+2	57	−1	NNE	5	*	o	3	–	63	55	.	.	.	.
4.	Scilly	1018·6	51	WNW	3	b	1020·9	+2	44	−2	NNW	6	NW	bc	5	–	54	42	om.bc	b	b.bcg	7·0
5.	Scilly	1020·2	47	NW	6	bc.	1020·8	+1	43	−1	N	5	N	cgp	5	1	51	40	bc	bc	bc.cgp	11·1
6.	Scilly	1022·3	46	N	5	c	1021·5	0	41	−2	–	0	N	bc	3	0·1	49	40	c	c	c.bc	6·3
	Lisbon	1012·8	57	NNW	5	b	1015·5	+3	46	−8	NNW	3	–	b	5	–	64	45	.	.	.	.
	Horta	.	.	.	.	.	1030·3	0	55	−2	ENE	4	*	o	2	–	61	54	.	.	.	.
7	Scilly	1015·8	45	SSE	3	o	1012·0	+2	45	+4	ESE	3	E	c	4	1	50	40	c.o	o	o.c.cp	3·3
	Madrid	1011·1	46	N	3	c	1013·9	+2	41	0	SSW	1	–	o	*	Trace	48	32	.	.	.	.
	Lisbon	1015·9	52	NNW	5	b	1017·5	.0	50	+4	NW	1	–	bc	5	–	55	46	.	.	.	.
	Horta	.	.	.	.	.	1032·2	0	55	0	–	0	*	o	1	–	59	54	.	.	.	.
8.	Scilly	1018·4	47	N	3	b	1022·7	+1	46	+2	N	2	–	b	3	–	52	42	bc.b	b	b.bc.b	9·7
	Lisbon	1015·3	52	NNW	4	c	1012·0	+1	45	−5	SW	1	–	r	5	6	55	43	.	.	.	.
9	Scilly	1023·1	49	NW	3	bc	1023·0	+1	47	+1	N	3	N	bc	4	0·1	53	44	b.bc.b	b.bc	com.bcm	11·5
10.	Scilly	1025·9	50	N	3	bc.	1026·7	0	47	0	–	0	–	b	3	–	53	43	bc	bc.	b.bc.b	11·7
	Vardö	999·5	28	SW	3	o	998·9	0	32	+4	SW	2	–	bc	2	*	32	25	.	.	.	.
	Lisbon	1013·0	59	NNE	4	bc	1014·4	+1	50	+6	NNE	4	–	b	5	1	61	50	.	.	.	.
	Horta	.	.	.	.	.	1036·8	+2	57	+2	NNE	4	*	o	3	–	61	52	.	.	.	.
11.	Scilly	1021·6	51	W	2	b	1016·5	+1	47	0	WNW	6	NW	cg	5	1	55	44	b	b	omgp	11·8
	Sanguinaire	*	57	W	3	m	*	*	52	−3	NW	2	*	b	2	–	64	50	.	.	.	.
	Lisbon	1013·9	63	NNW	4	o	1015·8	+1	54	+4	NNW	4	–	bc.	5	–	66	50	.	.	.	.
	Horta	.	.	.	.	.	1036·7	+1	55	−2	NNE	3	*	b	2	–	63	55	.	.	.	.
	Funchal	1015·8	61	N	3	r	1022·7	+3	59	+2	N	4	–	c	5	3	64	55	.	.	.	.
12.	Scilly	1018·7	49	WNW	6	bc.	1008·8	−5	49	+2	WSW	6	–	omr	6	2	52	46	c.bc.	b.bc.	c.o.omd	10·8
13.	Scilly	1006·0	51	W	6	cm	1006·0	0	47	−2	WNW	6	W	cgp	6	2	53	45	omd	om	om.bc.cgp	1·8
	Sanguinaire	*	55	SW	4	m	*	*	51	−1	E	3	*	m	6	–	63	46	.	.	.	.
	Madrid	1015·5	56	NNE	1	bc	1021·3	+2	54	+8	–	0	–	b	*	–	68	45	.	.	.	.
	Lisbon	1018·9	63	NNW	4	b	1020·6	+1	55	+1	N	2	–	b	5	–	68	54	.	.	.	.
	Horta	.	.	.	.	.	1032·0	+1	56	−3	–	0	*	bc	1	–	64	54	.	.	.	.
14.	Scilly	1007·7	48	WNW	8	bcg	1014·2	+2	46	−1	WNW	7	W	cgp	6	1	52	43	bcgp	bcgp	cgp	10·0
	Sanguinaire	*	63	W	4	m	*	*	56	+4	NW	5	*	o	5	–	70	48	.	.	.	.
	Lisbon	1021·1	61	NNW	5	b	1021·9	+2	55	0	N	3	–	o	2	–	70	52	.	.	.	.
15.	Scilly	1018·7	48	WNW	6	bc.	1023·5	+1	46	0	NW	6	NW	bc	6	–	52	43	c.bc	bc	bc	10·6
	Spitsbergen	1023·8	−6	SE	2	b	1025·3	0	7	+18	–	0	*	s	*	*	−6	−13	.	.	.	.
	Vardö	1019·1	27	SE	5	o	1022·1	+1	27	0	SE	4	–	c	2	*	30	23	.	.	.	.
	Bodö	1002·1	41	E	2	c	1007·7	+3	41	0	E	2	–	bc	2	–	45	37	.	.	.	.
	Christiansund	995·3	41	NE	2	b	1001·6	+4	39	0	W	2	–	b	2	–	45	34	.	.	.	.
	Skudesnaes	987·1	44	N	2	b	998·9	+4	41	0	NNE	3	–	b	.	–	43	34	.	.	.	.
	Perpignan	1019·4	52	NW	6	b	1022·1	*	52	0	NW	3	–	c	*	–	59	46	.	.	.	.
	Madrid	1018·4	64	NNE	1	b	1026·7	+5	46	−8	NE	4	–	b	*	–	68	41	.	.	.	.
	Lisbon	1021·2	59	NNW	5	b	1021·0	+1	55	0	NNW	4	–	b	5	–	64	52	.	.	.	.
	Horta	.	.	.	.	.	1026·4	+1	59	+2	SSE	4	*	bc	2	1	66	55	.	.	.	.
16	Scilly	1025·4	49	W	2	o	1021·5	0	49	+5	W	4	–	fd	4	2	54	44	bc	bc.c	omd.fd	8·2
17.	Scilly	1016·8	50	W	6	om	1010·1	−2	48	−1	W	6	W	cmq	6	2	52	41	fd.omd	f.om	omd.om	0·0
	Belfort	1021·3	41	W	4	c	1019·5	*	34	0	–	0	*	m	*	–	46	29	.	.	.	.
	Nice	1012·2	50	E	2	bc	1012·7	0	48	−3	E	1	*	b	2	–	64	39	.	.	.	.
18.	Scilly	1005·4	49	WNW	8	cmq	1005·6	0	47	−1	WNW	8	W	cp	7	0·4	52	45	cmq	cmqp	cq	3·2
	Sanguinaire	*	56	SW	3	bc	*	*	55	+3	NW	6	*	m	6	–	64	48	.	.	.	.
	Lisbon	1019·3	64	NNW	4	b	1018·7	0	55	−2	NNW	5	–	b	?	?	73	54	.	.	.	.
19	Scilly	1001·3	47	WNW	8	cq	1000·5	−1	45	−2	WNW	7	NW	cq	7	–	51	42	cq	cq	cqp	4·8
	Lisbon	1016·0	57	NNW	5	b	1012·8	0	52	−3	NNW	5	–	b	?	–	66	50	.	.	.	.
20	Scilly	997·8	47	WNW	7	bc.	995·0	−1	44	−1	WNW	6	NW	c	7	Trace	51	40	cq.bq	bcq	cqph	10·3
	Lisbon	1011·8	59	NNW	6	c	1012·7	0	56	+3	NNW	3	–	b	5	–	63	52	.	.	.	.
21.	Scilly	997·2	49	NW	1	bc.	997·6	0	45	+1	–	0	–	b	3	1	53	38	c.bc.c.	bcp	bc.b	7·7
22	Scilly	997·2	48	NNE	3	b	1002·2	+3	46	+1	NNW	4	NW	bc	4	–	51	43	b.bc.	b	bc.	12·9
	Sanguinaire	*	59	NW	2	o	*	*	68	+1	S	3	*	m	2	–	70	52	.	.	.	.
	Lisbon	1008·0	57	SW	5	o	1014·7	+3	52	−5	NW	2	–	b	5	1	61	50	.	.	.	.
	Horta	.	.	.	.	.	1012·8	+1	61	+2	SSW	4	*	r	3	1	70	59	.	.	.	.
23	Scilly	1009·7	49	WNW	5	bc.	1014·2	+2	49	+3	W	4	W	c	5	–	52	45	bc	bc.	bc.c.	11·6
24	Scilly	1015·9	51	SSW	4	c	1013·0	−1	49	0	SSW	6	–	omd	6	1	54	48	c	bc.c	c.omd	5·8
25	Blacksod Point	1006·8	45	–	0	or	1012·5	−4	40	−11	ESE	3	SE	bcr	3	12	63	38	bc.o	or	or.omd	*
	Scilly	1014·7	50	S	5	ome	1016·7	+1	50	+1	S	4	S	c	5	1	52	48	ome	ome	om c	0·0
26	Blacksod Point	.	.	.	.	.	1010·7	−1	49	+9	SE	3	SE	bc	3	2	50	40	.	.	cgp.b.d	*
	Scilly	1017·6	53	SE	4	bc.	1016·4	0	51	+1	SE	3	SE	c	4	–	57	48	bc	bc	b.bc.c	10·7
	Lisbon	1015·9	70	NW	2	c	1015·9	0	57	−2	N	2	–	bc.	5	–	77	55	.	.	.	.
	Horta	.	.	.	.	.	1015·4	0	58	+3	–	0	*	o	2	–	68	55	.	.	.	.
27.	Blacksod Point	.	.	.	.	.	1012·4	+4	48	−1	WSW	4	–	cme	3	1	57	46	.	.	cg.cmg	*
	Scilly	1017·7	514	SW	2	b	1020·9	+1	49	−2	WSW	2	W	o	4	–	57	47	cm	c.bc.b	bcm.c	3·9
	Sanguinaire	*	762	S	2	b	*	*	57	0	E	2	*	b	2	–	66	50	.	.	.	.
	Horta	.	.	.	.	.	1017·5	0	60	+2	SSW	3	*	o	2	–	68	57	.	.	.	.
28	Scilly	1021·4	49	WNW	1	m	1021·3	0	46	−3	NNE	3	–	fe	3	0·2	55	44	om	om	fe	2·7
	Lisbon	1013·6	59	NNW	5	b	1015·7	+2	55	−2	NNW	3	–	o	5	–	66	54	.	.	.	.
	Horta	.	.	.	.	.	1017·9	0	61	+1	SW	5	*	c	2	–	66	60	.	.	.	.
29.	Birr Castle	1025·7	59	NE	1	c	1024·4	*	46	0	N	1	–	o	*	–	60	44	c	c	c.o	5·7
	Scilly	1018·3	50	NNE	5	bm	1016·2	0	53	+7	ENE	4	–	bcm	4	–	53	45	f	bcm	bcm.bml	6·7
	Sanguinaire	*	61	E	3	bc.	*	*	57	−3	SE	3	*	o	3	–	66	52	.	.	.	.
30	Scilly	1014·1	60	ENE	5	bm	1012·7	−1	50	−3	ENE	3	E	cm	4	–	62	49	bm	bm	bm.bcm.c	12·4
	Nice	1013·2	54	–	0	c	1013·0	–	59	+5	–	0	*	c	2	–	63	50	.	.	.	.

REPORTS FOR APRIL, 1916.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind		Weather.	Barometer.		Temp.		Wind		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.	
			F.						°F.	°F.							°F.	°F.				Hours.
1.	Portland Bill																53					
	Aberdeen.				5																	
2.	Holyhead										SE											
	Dover																					11·5
	Tynemouth.										WNW											
3.	Falmouth																					
4.	Birr Castle																	38				
	Liverpool							+1	40	-3				b								
	Pembroke																					
	Yarmouth			SSE																	p.b	
	Bodö															NO RAIN	37					
5.	Jersey																50					
6.	Portland Bill.																53					
	Madrid															Trace						
7.	Pembroke														2			37				
	Nottingham																48	35				
	Funchal															Trace						
8.	Stornoway	1015·0																				
	Bleavands Huk						1018·7															
	Madrid															0·2						
	Funchal.															Trace						
9	Castlebay															2						
	Spurn Head																	37				
	Perpignan									+13								57				
10.	Eskdalemuir																					3·0
	Jersey																	HH				
	Aberdeen																		b.gr.hq			
	Coruna.										NE											
11	Portland Bill						1012·1															
	Dungeness.								39	-1								38				
12.	Eskdalemuir																					8·H
13.	Glasgow								H1													
	Wick		H6																			
	Nairn	983·3																				
14	Eskdalemuir																					7·H
16	Yarmouth																	33				
17	Spitsbergen								-8	-26								-8				
18	Birr Castle																	H1				
	Clacton-on-Sea	993·6																				
19.	Glasgow																		cm.omp			
	Pembroke						995·6	-1	HH	0				r		3						
	South Farnborough																					?0·5
20.	Malta						1007·9															
21.	Birr Castle												0									H·1
	Liverpool																		c.op	0		
22.	Blacksod Point		H5																			
	Liverpool																			b	bc-0	
	Corunna	1007·1																				
23	Deerness										S											
	Glasgow																				c.op	
	Roche's Point													bc								
	Liverpool						1008·H															
	Portland						?1014·8															
	Benson	1003·6																				
24.	Deerness																					7·5
	Malin Head.																	?H0				
	Yarmouth																	38				
25	Castlebay															1						
	Roche's Point															18						
	Doneghadee	1006·7																				
	Aberdeen																		rq.c.o			
	Spurn Head																					1·0
	Christiansund.	1013·6																				
26.	Liverpool																					1·6
	Pembroke						1018·3							bc								
	Dover																					11·0
	Benson															NO RAIN						
27	Holyhead																	H7				
	Bodö															NO RAIN						
28	Glasgow																					1·0
	Roche's Point														2			H7				
	Liverpool																		b	b		
29.	Doneghadee	1025·2																				
	Holyhead																					5·7
30	Lyons																67	H5				

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

STATION. Date and Hour.		Comp. to E.	Comp. to N.	Comp. to E	Comp. to N	Comp. to E	Comp. to N	Comp to E	Comp to N.	Comp to E.	Comp to N	Comp. to E.	Comp to N.	Comp. to E.	Comp. to N.
		Eskdalemuir													
		5th	7h.												
Heights in Kilometres	2	-1	-4												
	1	-1	-11												
	0·5	0	-6												
	0	-1	-4												

CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.

LONDON OBSERVATIONS.

	STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.
		%	%	Hr.
1	Westminster	.	.	1·1
	Richmond Park.	.	.	1·2
3	City	.	.	9·9
	Westminster	.	.	10·8
	Richmond Park	.	.	11·0
4	City	.	.	5·3
	Richmond Park	.	.	7·6
5	Richmond Park.	.	.	4·1
6	City	.	.	6·8
	Westminster	.	.	6·9
	Richmond Park	.	.	6·5
7	Richmond Park	.	.	0·0
8	Westminster	.	.	3·3
	Richmond Park	.	.	4·0
10	Westminster	.	.	5·0
11	Richmond Park	.	.	11·0
12	Westminster	.	.	4·7
13	Westminster	.	.	1·3
	Richmond Park	.	.	1·8
14	Westminster	.	.	5·1
	Richmond Park	.	.	5·7
15	Richmond Park	.	.	10·0
18	Westminster	.	.	4·7
19	Westminster	.	.	0·5
	Richmond Park	.	.	0·0
20	Westminster	.	.	1·3
	Richmond Park	.	.	1·9
21	City	.	.	2·1
22	Westminster	.	.	6·2
25	Westminster	.	.	0·7
26	Richmond Park	.	.	10·6
27	Richmond Park	.	.	9·5
28	Westminster	.	.	9·1

GALES

Duration and Extreme Force in British Islands

Date.	ADDITIONS.	Date.	CORRECTIONS.
14.	Scilly 13th 5p.m - 14th 2a.m WNW 8	18	Holyhead 17th 8p.m Gust W 22 mps. 18th 1a.m " W 27 "
17.	Scilly 17th 1a.m Squall W 8		
18.	Liverpool 18th 1a.m - 5a.m WSW 8		
	Scilly 17th 2p.m - 18th 7a.m WNW 8.		
19	Scilly 18th 2p.m - 8p.m WNW 8 19th 6a.m Squalls WNW 8		
20	Scilly 20th 11a.m Squall WNW 8.		