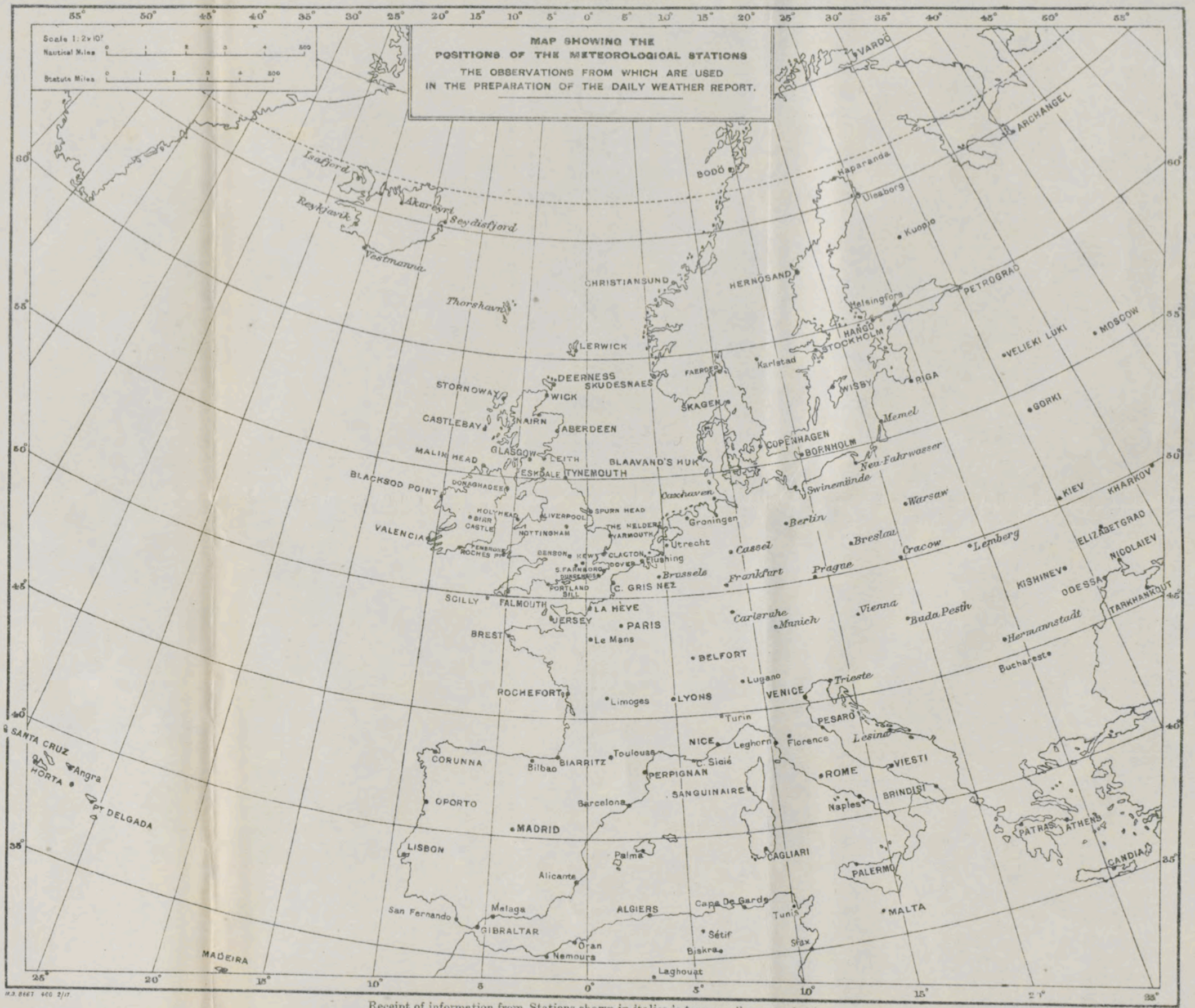
M.O. Form 2610.

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. 122. Monday 1st May

	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 ...	10198	47	WSW	3	bc	10206	+1	44	-1	NNE	3	NE	bc	2	1	50	39	o	bc	bc	*
	Deerness (Orkney)	10206	47	WNW	4	bc	10216	*	43	-2	NNW	3	-	o	2	Trace	51	39	c bc	bc	bc c o	4.7
	Stornoway ...	10226	47	NW	4	bc	10227	0	43	-2	NE	3	-	c	3	-	52	39	o c o	o bc	bc o c	5.4
	Castlebay (Barra Isd.)	10226	48	NW	4	b	10206	0	45	0	NE	3	-	b	3	-	50	42	b	b	b	14.0
	Glasgow ...	10190	54	ENE	3	b	10206	+1	42	+1	ENE	3	SE	c	*	-	57	38	c bc b	b	b bc c	11.0
	Eskdalemuir ...	10188	51	ENE	3	b	10202	0	39	0	NE	5	-	o	*	-	56	36	om bc	b	om o	6.8
	Malin Head ...	10215	47	NNE	5	bm	10187	-1	45	-2	NNE	4	-	bm	4	-	51	43	b	bom	bm	12.8
	Blacksod Point	10193	48	ENE	5	bc	10174	-2	45	-1	ENE	4	NE	bc	4	-	53	42	bc	bc	bc	*
	Valencia ...	10140	64	NE	3	b	10195	0	55	-1	NE	1	E	c	*	-	66	51	bc b bc	b b c	b bc c c	12.7
	Roche's Point	10158	62	E	3	b	10154	*	51	-5	N	2	-	b	1	-	63	48	b	b	b	*
	Birr Castle ...	10171	61	NE	1	b	?	*	42	-4	NE	1	-	b	*	-	63	38	bc	b	b	9.7
	Donaghadee ...	10188	50	N	4	b	10180	0	45	+1	ESE	3	-	om	3	-	51	42	b	b	of of	*
	Liverpool (Bidston)	10160	62	ENE	3	b	10164	0	46	+1	ENE	2	-	b	3	-	66	42	b	b	bm	12.4
	Holyhead ...	10163	54	NE	5	bm	10148	0	48	+3	ENE	6	-	bm	5	-	57	45	bm	bm	bm	12.6
	Pembroke (St. Ann's)	10142	57	NW	1	bc	10140	-1	51	+2	NNE	2	-	b	1	-	61	49	b	bc	b	12.5
	Scilly (St. Mary's)																					
	Falmouth ...	10108	62	ENE	2	bz	10101	+1	56	+2	NE	3	-	b	*	4	65	51	b bc	b	bl c n b	12.2
	Jersey (St. Aubin)	10091	63	ENE	5	b	10059	*	56	+1	E	2	E	bc	1	Trace	67	50	b	b	bc p bc	11.5
	Portland Bill ...	10118	55	E	2	b	10102	+1	51	+1	NE	4	E	bc	4	-	60	49	bc	b	b bc	*
	Dungeness ...	10124	57	NE	3	b	10113	0	54	0	NE	3	NE	bc	3	-	61	49	b	b	bc c	*
	Dover	10136	55	NNE	5	bv	10118	0	56	+1	N	2	-	b	2	-	62	46	b	b	b	13.1
	Wick	10210	46	NNW	1	c	10224	+1	43	-1	NNW	1	N	o	1	-	50	36	bc c	c	bc o	*
	Nairn	10258	49	ENE	3	c	10219	*	44	-1	-	0	-	c	1	-	57	38	c bc b	q bc c	cg	2.8
	Aberdeen ...	10210	46	SSE	2	c	10220	+1	46	+1	N	3	-	b	2	-	53	41	bm b	b bc c	cl bc b	10.8
	Leith	10201	45	NE	1	bc	10207	0	43	+1	SE	1	E	c	2	-	49	40	o c bc	b	bc o c	*
	Tynemouth ...	10204	48	NE	2	om	10206	-1	40	-2	NE	3	-	om	3	-	45	39	f	f	om	*
	Spurn Head ...	10184	44	NE	5	f	10178	-1	42	0	E	5	-	o q	5	-	46	40	f	f	f. o q	1.0
	Yarmouth ...	10164	51	NE	4	b	10144	0	47	-2	ENE	5	-	bc	4	-	54	46	b	b	b bc	13.9
	Clacton-on-Sea	10146	56	ENE	4	b	10131	0	53	0	NE	3	-	bc	2	-	60	49	bc b	b	b bc	11.8
	Nottingham ...	10171	55	ENE	4	b	10165	*	43	0	NE	5	NE	c	*	-	62	41	o c b	b	bc	9.6
	Benson (Oxon.) ...	10135	63	NE	3	b	10137	0	45	+1	NNE	3	-	o	*	-	67	42	b	b	b o	*
	Sth Farnborough	10127	65	ENE	2	b	10123	0	49	+2	NE	2	E	o	*	-	70	44	bz	b	b o	11.9
	London (Kew Obsy.)	10136	64	E	4	b	10131	+1	50	+2	NE	2	E	bom	*	Trace	68	46	bc b	b	b bom	11.6
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö	10177	39	NNW	1	c	10160	0	37	-4	N	1	-	c	1	2	41	34				
	Christiansund	10186	45	-	0	c	10146	0	41	-4	W	2	-	c	3	1	48	41				
	Skudesnaes ..	10175	43	N	4	b	10154	0	45	0	NNW	6	-	c	2	-	48	39				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	10160	48	W	2	b	10103	-3	48	-4	WSW	4	-	b	4	-	57	41				
	Blaavands Huk	10184	45	NNW	2	f	10171	0	46	-6	NNW	3	-	b	2	-	57	41				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	10153	55	NE	4	b	10151	0	54	0	NE	5	-	b	2	-	59	52				
	C. Gris Nez ...	10135	55	ENE	4	b	10117	0	57	+2	E	2	*	b	1	-	57	50				
	La Hève	10090	64	NE	3	bc	10084	*	59	+2	E	2	*	m	2	-	72	55				
	Brest (St. Mathieu)	10088	57	E	3	c	10087	0	57	+5	ENE	3	*	o	1	1	70	52				
	Rochefort (Ile d'Aix)	10090	58	SSE	3	o	10086	0	55	0	SSE	3	*	c	*	3	64	54				
	Biarritz	10092	57	WNW	2	o	10074	-1	53	-4	ESE	3	*	c	1	2	68	50				
	Paris	10092	68	E	3	b	10097	+1	54	-5	SE	1	-	b	*	-	75	48				
	Belfort	10096	59	ENE	6	b	10133	*	51	-1	-	0	*	m	*	-	63	45				
	Lyons	10090	62	S	2	o	?10067	*	54	+4	-	0	*	b	*	1	72	48				
	Nice	10124	53	-	0	c	10139	+3	54	-	-	0	*	c	2	-	63	46				
	Perpignan ..	10097	55	NE	1	o	10106	+2	55	-4	-	0	SE	o	*	1	64	48				
	Sanguinaire ..	*	68	N	2	o	*	*	59	-	SSW	1	*	o	3	-	68	54				
SOUTHERN EUROPE.	Corunna (7 a.m.)	10079	57	SSE	4	r	10063	0	55	+1	-	0	-	o	1	5	57	54				
	Madrid (8 a.m.)	10080	63	WSW	2	c	10104	+1	50	0	-	0	-	bc	*	-	63	45				
	Lisbon (9 a.m.)	10049	57	SSW	4	r	10074	0	57	+2	S	2	-	o	*	3	61	55				
	Gibraltar	10115	57	NW	5	bc	10112	*	57	-	W	2	*	bc	2	-	68	53				
	Malta (8 a.m.) ...	*	*	*	*	*	10109	+3	63	+2	ESE	5	-	c	3	-	64	61				
	Azores (Horta, 8 a.m.)		*				10088	0	55	-2	NNE	4	*	r	3	1	66	55				
	Madeira (Funchal)	10114	66	SW	5	o	10096	0	59	-4	W	1	W	o	1	-	66	57				
YESTERDAY'S REPORTS		29th April, 8 P.M. G.M.T.					30th April....., 7 A.M. G.M.T.															
ITALY.	Venice	10106	63	SW	2	b	10121	0	59	+7	ESE	4	*	o	4	-	*	*				
	Turin	10114	59	-	0	b	10109	0	57	+9	-	0	*	b	*	-	*	*				
	Viesti	10132	57	-	0	b	10109	0	57	+2	N	2	*	b	3	-	*	*				
	Pesaro	10123	55	WSW	2	b	10126	0	57	-7	-	0	*	b	2	-	*	*				
	Leghorn	10124	59	-	0	b	10127	0	59	+2	-	0	*	b	1	-	*	*				
	Rome	10132	57	-	0	b	10130	0	55	+1	-	0	*	b	*	-	*	*				
	Brindisi	10130	55	NNW	2	b	10130	0	54	0	NW	2	*	b	3	-	*	*				
	Cagliari	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	*				
	Palermo	10123	59	-	0	o	10126	0	59	-	-	0	*	o	1	-	*	*				

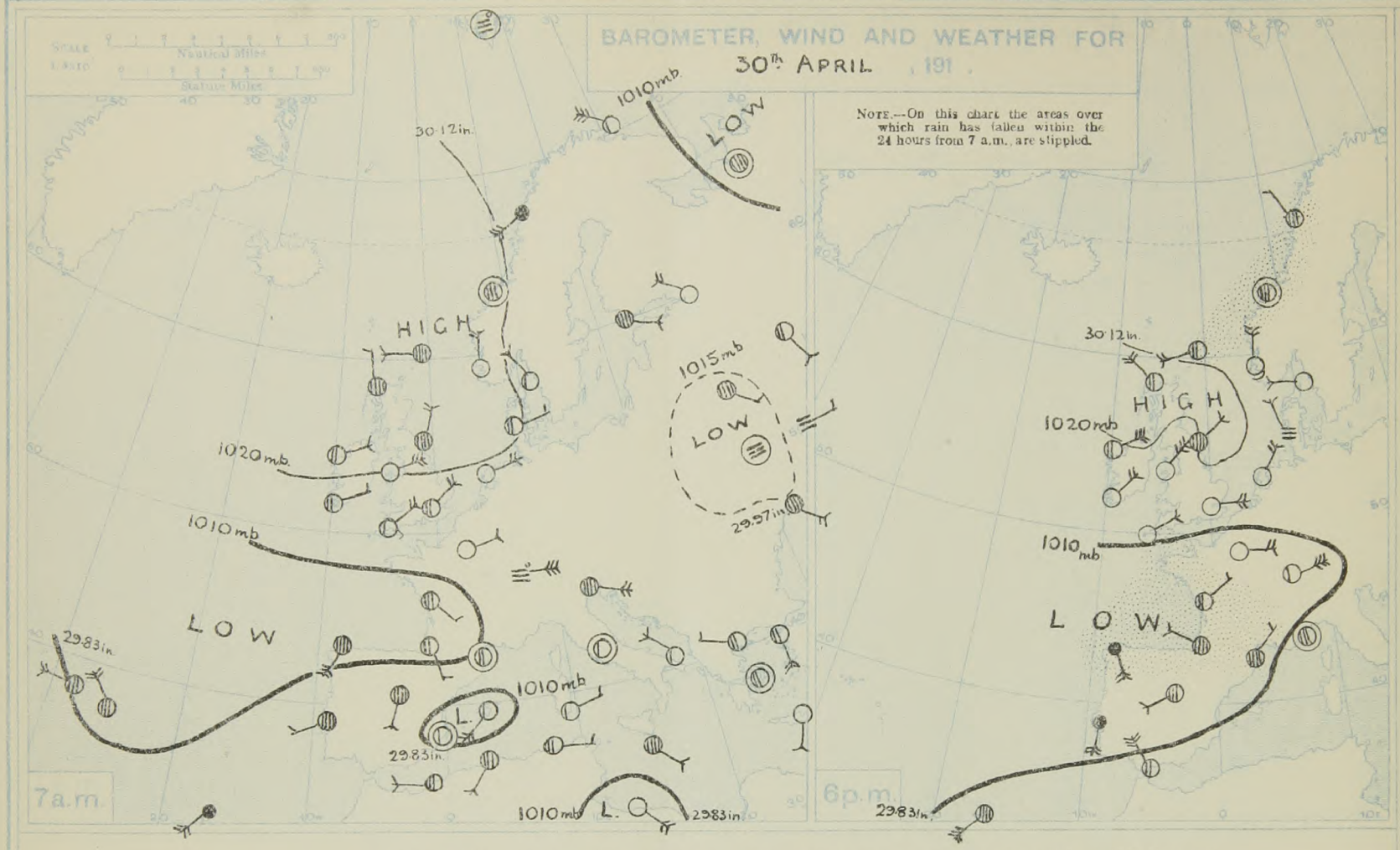
RAINFALL.

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 30th APRIL, 191.



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

FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b, 1 } Wind between North and East, light to moderate; fair to fine, local mist; moderate temperature.

2 a, b, 3, 4 a, b, 5 } North-Easterly to Easterly breezes, moderate to fresh at times; fine to cloudy, local thunderstorms not improbable; warm.

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

7 a, b } Same as Nos. 2 to 5.

8 a, b } Light North-Easterly breeze; fine generally, local thunder not improbable; warm.

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

10 a, b } Same as Nos. 7 and 8.

Western Channel and Bay 11 { Variable breezes; moderate sea; cloudy, some rain and thunder, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 1ST MAY, 1916.

GENERAL INFERENCE.

With an anticyclone spreading down from Iceland, and pressure continuing low to the Southward the general weather conditions will undergo no decided modification.

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 : 3·6 × 10⁷
Nautical Miles 0 1 2 3 4 5 500
Statute Miles 0 1 2 3 4 5 500

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

1015mb
1020mb.
1010mb.
40°
50°
HIGH
Barometer
scarcely
changing
L O W
L O W
30.12in.
29.97in
29.97in
29.83in.

Issue No. 19,884

DAILY WEATHER REPORT.

Monday, 1st May 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	..... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	..... 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	-	-	-	-	-	.	.	.	.	.	.	*	-	-	-	*	-
Vilikieluki	-	-	-	-	-	1017·1	*	54	+4	S	2	*	0	*	-	*	*
Gorki	1017·0	54	SSE	2	c	1013·3	0	52	0	SE	1	*	0	2	*	*	*
Hangö	1021·2	43	-	0	c	1019·7	0	46	+9	ESE	2	*	0	2	1	*	*
Riga	1020·3	55	NNE	2	b	1017·7	0	54	0	-	0	*	bc	*	-	*	*
Petrograd	1018·9	46	WNW	2	b	1018·7	0	43	-3	NW	3	N	b	*	8	61	39
Moscow	1020·3	57	SE	1	b	1018·0	-1	52	+2	SSE	2	*	bc	*	-	*	45
Kiev	1019·9	61	NNE	2	f	1013·7	0	48	+2	-	0	*	f	*	-	*	45
Kharkov	1015·3	57	SE	1	0	1015·5	0	48	-6	-	0	*	f	*	6	*	*
Kishinev	1015·1	52	S	2	c	1015·0	+1	52	+4	SE	2	*	0	*	2	*	46
Elisabetgrad ...	1014·3	59	ENE	1	0	1015·1	+1	50	-2	SSW	1	*	b	*	-	*	45
Nicolaiev	1015·3	54	S	2	b	1013·3	*	50	-4	SW	3	*	0	0	-	*	46
Odessa	1015·5	54	WSW	3	b	1015·1	+1	54	0	SE	3	*	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	-	58	45	b	b	11·0
	Banff	-	53	41	bc	b	?
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	59	39	bc.b	b	8·5
	Skegness	-	50	41	m.o.bc	bcm	7·7
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	68	39	b	b	12·2
Midlands	Buxton						
	Leamington Spa	-	65	41	cbc	b	8·3
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	56	40	b	b	11·8
	Colwyn Bay	-	57	40	bc	bc	12·0
	Llandudno	-	57	43	b	b	12·4
	Aberystwyth	-	69	46	c.b	bc.c	12·3
	Tenby						
England, E.	Lowestoft						
	Felixstowe	-	57	47	b	b	12·7
	Walton-on-Naze						
	Southend-on-Sea	-	63	46	b	bv	12·0
England, S.E.	Margate						
	Ramsgate	-	57	48	bc	bc	12·5
	Hastings	-	68	49	b	b	12·8
	Eastbourne	-	66	49	b	b	12·5
	Seaford						
	Brighton	-					
	Worthing	-	71	48	b	b	12·9
	Littlehampton	-	70	?	b	b	12·8
	Bognor	-	70	47	bc	b	12·5
	Southsea						
	Bournemouth	-	71	45	b	b	12·0
England, S.W.	Weymouth						
	Torquay	-	66	49	b	bbcb	10·4
	Paignton						
	Penzance						
	Newquay	*	68	49	b	b	10·7
	Ilfracombe						
	Weston-super-Mare ...	-	68	42	bc b	b	8·5
	Bude	-	69	49	b.bc	bc.o c	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.	24 Hours ended 9 A.M. To-day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	50	75	12·2	69	45	36	-	b.	b	bc.c.b
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	50	75	.	70	47	45	-	bc	bc.	bcmb
Camden Sq. (Brit. Rainfall)	-	71	11·1	75	46	42	Trace	-	-	*
Hampstead (Reservoir) ...	*	73	12·6	67	42	?	1	bc	b.bc	bcp b
Richmond Park ...	*	*	12·0							
Kew. (See front page.)	*	*	11·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	-	77	11·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1921 Joules	36·4 Milliwatts.	64 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.)	-	70	45	42	b	b	b	*

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

1st & 2nd May 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4. 24 4. 22	11.50 11.50	7.16 7.18
Greenwich	4. 34 4. 32	11.37 11.37	7.20 7.22
Wick	4. 20 4. 18	12.9 12.9	7.38 8.0
Valencia	5. 13 5. 11	12.38 12.38	8.2 8.4

NOTES ON YESTERDAY'S WEATHER.

Temperature ranged from 45° at Tynemouth to 71° at Bournemouth and Worthing. A few places had thunder or lightning. Sunshine was abundant generally, exceeding 13 hours locally.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility unusual transparency; w. dew; 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. 123 { Tuesday, 2nd May

	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 ...	1023·2	46	NE	3	bc	1020·6	-1	42	-2	S3W	2	-	0	1	-	48	38	bc	bc	o	*
	Deerness (Orkney)	1023·0	45	NE	3	bc	1018·6	*	44	+1	S	4	-	0	2	-	50	41	o bc b	bbc	bc c o	11·0
	Stornoway ...	1020·7	47	NE	5	bcq	1017·1	-2	45	+2	-	0	-	c	0	-	53	42	bcq	bcq	bc c	9·8
	Castlebay (Barra Isd.)	1019·5	51	NE	2	o	1017·2	-1	46	+1	E	2	NW	r	2	0·2	52	44	bc	c bc	acoach	7·2
	Glasgow ...	1020·4	47	ENE	3	bc	1019·8	-2	41	-1	ENE	2	W	b	*	-	52	36	c bc	bc c	bc bw	7·5
	Eskdalemuir ...	1019·8	45	NE	4	bc	1019·5	-1	40	+1	NNE	3	-	o	*	-	54	35	o cc bc	c bc	bbc o	4·3
	Malin Head ...	1017·2	49	ENE	3	bcm	1016·4	0	46	+1	E	2	-	bm	1	-	52	43	bcm	bcm	bm	1·1·7
	Blacksod Point	1016·3	50	NE	3	bc	1014·7	-1	46	+1	-	0	-	bm	1	-	52	44	bc	bc	bc bcm	*
	Valencia ...	1012·0	63	NNE	3	b	1012·7	0	46	-9	-	0	.	bcz	*	-	64	42	bz	bz	bz bcz	12·4
	Roche's Point	1013·7	58	E	3	b	1014·1	*	48	-3	ENE	3	E	c	3	-	62	47	bz	bz	b bc c	*
	Birr Castle ...	1013·8	57	NE	4	m	1014·9	*	48	+6	NE	1	-	o	*	-	62	42	z	z	bz	12·8
	Donaghadee ...	1015·9	50	N	3	bm	1017·5	0	44	-1	SE	4	-	ogm	3	-	52	43	bm	bm	bmogm	*
	Liverpool (Bidston)	1015·4	54	E	5	bc	1016·2	0	43	-3	ENE	4	E	c	3	1	59	42	bcp	op	op	9·2
	Holyhead ...	1013·3	53	E	6	bcm	1014·7	+1	45	-3	E	6	E	cm	5	-	57	44	bm	bcm	bcmw	12·6
	Pembroke (St. Ann's)	1012·8	56	N	1	bc	1014·1	+1	46	-5	ENE	3	NE	c	2	2	61	46	bc	bc	cp	11·2
	Scilly (St. Mary's)																					
	Falmouth ...	1009·1	61	NE	1	bc	1010·6	+1	51	-5	ENE	2	-	o	*	-	62	50	c	c b bc	bcbo	9·6
	Jersey (St. Aubin)	1008·2	54	SSE	2	b	1009·9	*	51	-5	E	1	-	om	1	3	66	50	bc c o b	b oi r b	bcome	3·0
	Portland Bill ...	1009·4	55	SE	3	c	1010·5	+1	49	-2	NE	3	E	o	3	11	63	48	bc	bc	cp or	*
	Dungeness ...	1009·6	55	NE	4	ou	1011·2	0	49	-5	NE	5	-	op	4	7	60	48	bc	bc c o	rll or	*
	Dover	1010·8	52	NE	6	bc	1011·8	0	50	-6	NE	5	E	c	4	-	64	347	b	b bc	c ll bc	12·2
	Wick	1022·8	45	ENE	1	bc	1018·5	-2	43	0	SSE	3	-	o	3	-	47	42	o bc	bc	bc o	*
	Nairn	1020·9	48	E	3	bc	1018·0	*	40	-4	-	0	-	bc	0	-	51	33	c bc	bcq	bcx	8·8
	Aberdeen ...	1022·4	46	E	2	bc	1019·9	-1	43	-3	SSE	3	-	o	2	-	51	42	bc b	b bc	bc c o	12·2
	Leith	1020·6	46	E	2	c	1019·3	-1	42	-1	SE	1	SE	c	2	-	50	40	c o c	o	c o c	*
	Tynemouth ...	1021·2	46	ENE	2	cm	1020·5	0	43	+3	E	2	-	o	3	-	50	40	bc	bcm	c	
	Spurn Head ...	1018·5	47	E	5	bc	1018·1	0	45	+3	E	5	-	c	5	-	51	40	bcq	bcq	bc	6·5
	Yarmouth ...	1014·4	48	E	6	b	1015·2	0	46	-1	ENE	5	-	cp	4	2	50	45	bc	bc	op l cp	9·9
	Clacton-on-Sea	1012·8	52	NE	5	bc	1013·2	0	48	-5	NE	4	E	o	4	2	56	47	bc b	b bc	cp l r o	11·4
	Nottingham ...	1016·5	55	NE	5	c	1016·5	*	44	+1	NE	4	NE	o	*	Trace	56	42	c bc	bc c	cp bc	7·4
	Benson (Oxon.) ...	1011·8	59	NE	4	b	1013·3	0	45	0	NNE	3	-	o	*	7	65	44	b	b	b tr	*
	Sth Farnborough	1010·5	63	ENE	3	bc	1012·2	+1	47	-2	NE	3	-	o	*	3	69	46	b o	c bc	bc to r o	8·1
	London (Kew Obsy.)	1011·7	61	E	4	b	1013·0	+1	48	-2	ENE	3	-	or	*	10	67	46	bcm b	bc c bc	b l to r o	10·9
NORTHERN EUROPE.	Spitsbergen ...	1017·1	3	SE	1	b	1021·2	+1	-2	+2	N	1	*	b	2	*	10	-15				
	Vardö	1015·4	36	W	2	S	1015·8	0	32	+7	NE	3	-	bc	3	*	43	25				
	Bodö	1014·0	37	NNE	2	c	1013·6	0	36	-1	N	2	-	c	2	-	37	30				
	Christiansund	1018·3	37	NNW	3	c	1017·3	0	36	-5	NW	2	-	c	3	3	43	34				
	Skudesnaes ..	1018·1	43	NW	5	c	1019·0	0	41	-4	N	5	-	b	2	-	46	36				
	Færder (X'Iania Fjord)																					
	The Scaw (Skagen)	1012·4	48	WNW	3	b	1017·5	+3	46	-2	ENE	2	-	b	2	-	52	43				
	Blaavands Huk	1017·3	46	NNW	4	b	1018·1	0	48	+2	NNE	2	-	b	2	-	48	41				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														-							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1015·7	52	NE	7	b	1016·3	0	48	-6	NE	6	-	c	3	-	54	48				
	C. Gris Nez ...	1009·6	54	NE	5	c	1010·9	+1	51	-6	E	4	*	o	3	1	64	48				
	La Hève	1008·4	55	NE	2	llr	1009·7	*	54	-5	ESE	2	*	r	1	2	72	54				
	Brest (St. Mathieu)	1009·3	54	N	3	r	1010·0	+2	52	+5	SW	1	*	f	1	4	63	47				
	Rochefort (Ile d'Aix)	1009·2	57	NW	3	o	1011·0	+3	55	0	NW	3	*	c	*	-	66	54				
	Biarritz	1007·3	61	SE	2	c	1010·7	+2	58	+5	SW	1	*	bc	0	2	66	53				
	Paris	1009·7	61	SSE	2	r	1011·4	+3	55	0	-	0	-	o	*	2	70	50				
	Belfort	1011·7	61	E	2	bc	1015·1	*	53	+2	NW	2	*	r	*	1	66	48				
	Lyons	1010·0	62	S	2	b	1014·9	*	52	-2	-	0	*	r	*	1	72	50				
	Nice	1013·9	54	-	0	bc	1014·3	0	62	+8	-	0	*	bc	2	-	63	50				
	Perpignan ..	1010·0	57	SE	1	o	1012·2	+2	59	+4	-	0	-	b	*	5	64	48				
	Sanguinaire ...	*	62	W	2	m	*	*	60	+1	E	1	*	b	2	-	66	55				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007·4	59	N	2	o	1009·7	+2	55	0	SSW	3	-	o	1	16	64	54				
	Madrid (8 a.m.)	1009·0	59	W	2	bc	1013·7	+3	54	+4	E	1	-	bc	*	?	61	45				
	Lisbon (9 a.m.)																					
	Gibraltar	1012·2	62	NW	3	b	1011·2	*	57	0	SE	2	*	m	1	-	69	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·4	0	66	+3	ESE	2	-	b	1	-	70	61				
	Azores (Horta, 8 a.m.)	1010·4	*	NNE	4	c							*									
	Madeira (Funchal)	1008·0	61	SW	4	r	1003·0	-2	61	+2	SW	5	-	r	5	4·5	68	59				
YESTERDAY'S REPORTS		30th April, 8 P.M. G.M.T.					1st May ..... 7 A.M. G.M.T.															
ITALY.	Venice	1013·5	59	-	0	b	1013·5	0	59	0	-	0	*	c	2	-	*	*				
	Turin	1011·6	57	-	0	bc	1014·6	?	55	-2	"	0	*	o	*	Trace	*	*				
	Viesti	1013·9	57	-	0	b	1014·7	0	61	+4		0	*	bc	1	-	*	*				
	Pesaro	1013·2	57	-	0	b	1013·7	0	59	2	E	2	*	c	2	-	*	*				
	Leghorn	1013·5	59	-	0	b	1013·6	0	63	+3	-	0	*	bc	1	-	*	*				
	Rome	1013·7	59	-	0	b	1013·5	0	53	-2	N	2	*	bc	*	-	*	*				
	Brindisi	1013·9	61	NW	2	b	1015·1	0	57	+3	SE	2	*	b	2	-	*	*				
	Cagliari	1012·0	63	SSE	4	b	1011·7	0	70	-	NW	4	*	bc	3	-	*	*				
	Palermo	1010·9	59	-	0	o	1011·6	0	63	+4	-	0	*	o	2	-	*	*				

RAINFALL
Equivalents of Millimetres in Inches.

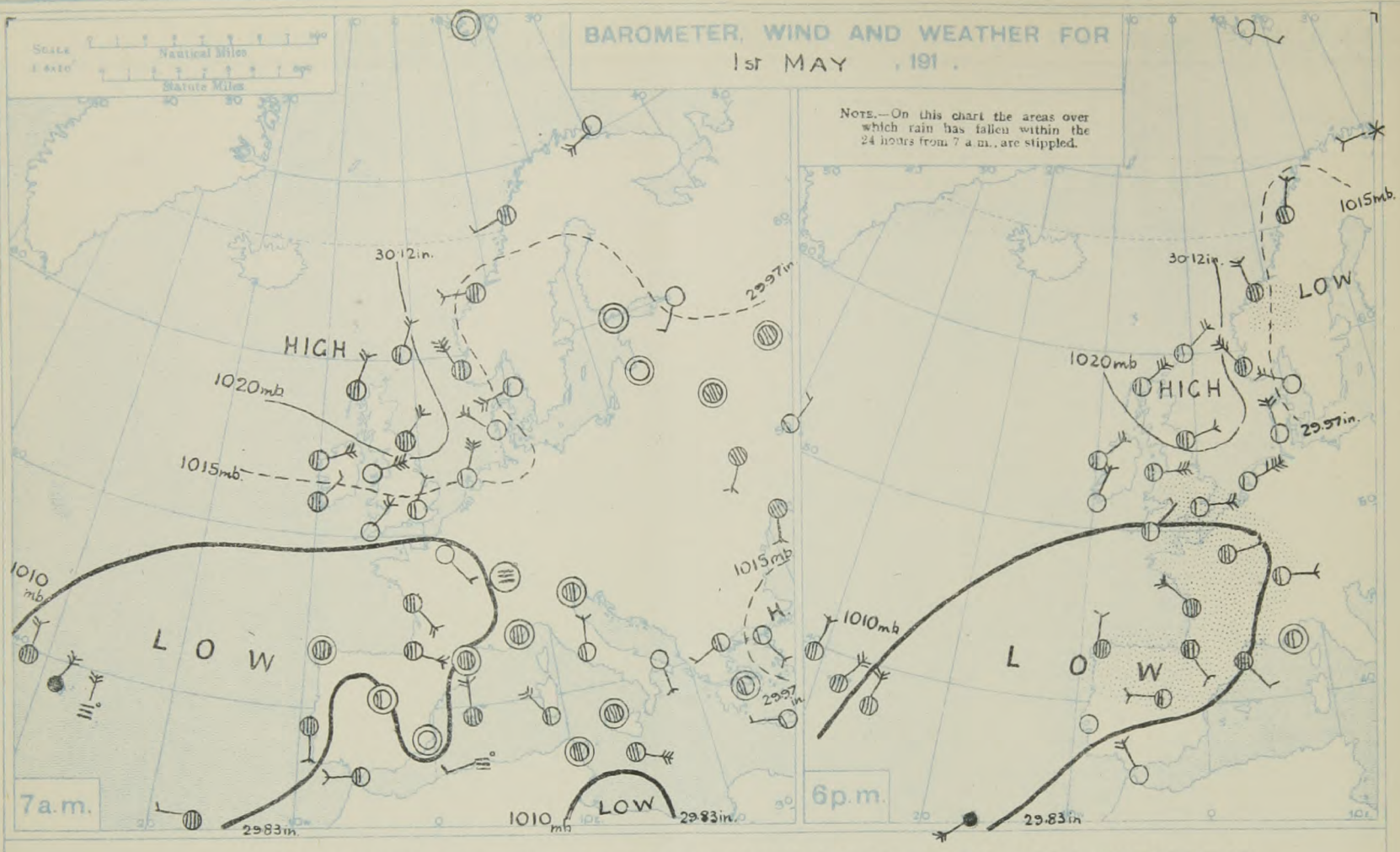
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 MAY , 191 .

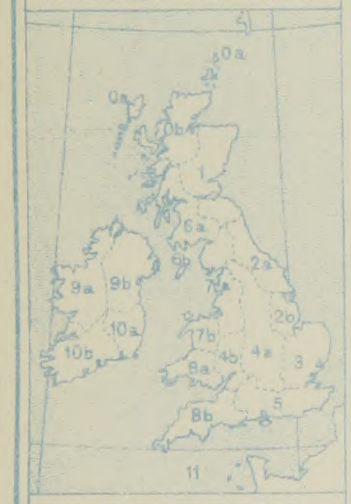
Scale 1 Nautical Miles / Statute Miles

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



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 Southerly or variable winds; cloudy, occasional rain; rather cold.
2 {a b}	Moderate South-Easterly winds; cloudy, occasional rain; rather cold.
3 4 {a b} 5	Moderate or fresh Easterly winds, then decreasing; cloudy, some showers; rather cold.
6 {a b}	Same as Nos. 0 and 1.
7 {a b}	Same as Nos. 3 to 5.
8 {a b} 9 {a b} 10 {a b}	Light winds chiefly between East and South; fair, showery; rather cold.
Western Channel and Bay 11	Light Easterly or variable winds and smooth sea; some mist or fog, cloudy and showery.

FURTHER OUTLOOK.

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

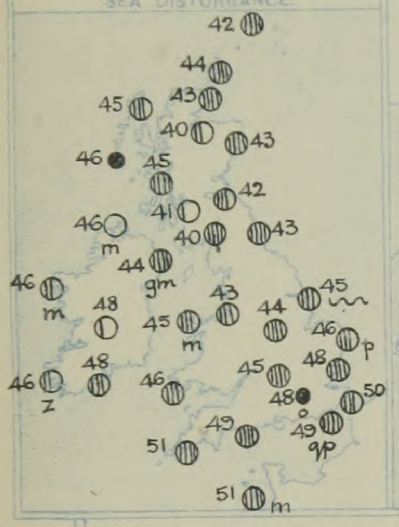
Millibars / Inches: 1050—31, 1040, 1030, 1020—30, 1010, 1000, 990, 980—29, 970

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 2nd MAY, 1916.

GENERAL INFERENCE.

The tongue of high pressure spreading down over the Northern North Sea will move slowly Eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈

Scale of 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 MAY.

30·12in.
29·97in.
1020mb. HIGH
40°
Barometer
falling
slightly
1015mb.
Barometer
50°
1010mb.
rising
slowly
1015mb
HIGH
29·97in.
60°
1005mb
LOW
29·68in
29·83in.

Issue No. 19,885

DAILY WEATHER REPORT.

Tuesday, 2nd May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	30th ... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	1st MAY. 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	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	
Vilikie Luki ...	-	-	-	-	-	1014.3	?	50	-4	-	0	*	0	*	-	*	46
Gorki	1012.8	52	-	0	0	1011.7	?	50	-2	-	0	*	0	*	7	*	?
Hangö	1016.4	45	-	0	b	1013.3	+2	41	-5	-	0	*	b	0	-	*	36
Riga	-	-	-	-	-	1013.1	0	59	+4	-	0	*	b	0	-	*	50
Petrograd	1016.0	43	NW	1	b	1015.8	0	43	0	WSW	1	-	b	*	-	57	39
Moscow	1013.5	52	SE	1	o	1012.8	0	52	0	-	0	*	o	*	-	*	50
Kiev	1013.2	52	ENE	2	b	1012.7	0	54	+6	SW	2	*	c	*	1	*	45
Kharkov	1014.0	59	NE	2	b	1014.7	0	52	+4	ENE	1	*	b	*	8	*	48
Kishinev	1014.3	54	-	0	o	1014.3	+1	52	0	SE	2	*	o	*	1	*	50
Elisabetgrad ...	1014.6	54	-	0	b	1014.3	0	50	0	S	1	*	o	*	-	*	43
Nicolaiev	1014.7	54	-	0	b	1014.7	*	52	+2	-	0	*	o	o	?	*	50
Odessa	1014.9	55	WSW	1	o	1014.6	0	54	0	SSW	2	*	o	?	-	*	?

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	41	c	o	5.1
	Banff	-	50	40	bc.c	bc.	7.4
	St. Andrews	-	48	38			5.1
	Carnoustie	-	48	44	o	o.bc.	3.0
Eng. N.E.	Harrogate	-	53	38	o	c.bc.b	4.2
	Skegness	-	50	42	bc.c	cp.o	8.4
Eng. N.W.	Morecambe	-	60	43	b	b.	13.0
	Blackpool						
	Southport	-	58	39	b.bc.b	bc.c.o.c	9.0
Midlands	Buxton	-	56	35	bc	bc	9.8
	Leamington Spa	-	60	41	bc	bc	10.0
	Malvern						
	Ross-on-Wye	-	62	38	o.bc.b	bz.	6.6
Wales.	Rhyl	-	60	44	b	b.	9.2
	Colwyn Bay	-	58	41	bc	bc	11.5
	Llandudno	-	58	44	b.bc	bc.	9.8
	Aberystwyth	-	64	45	o.o.b,	bc.o,	9.5
	Tenby	-	62	54	b	bc	?

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	51	47	bc	bc.	7.0
	Felixstowe	-	56	49	bc	bcq.	11.2
	Walton-on-Naze						
	Southend-on-Sea	-	60	47	b	b.	13.5
England, S.E.	Margate	-	55	48	b	b.	12.1
	Ramsgate	-	57	48	bc	bc.	12.7
	Hastings	-	66	49	b	b.bc.	9.7
	Eastbourne	-	65	50	bc3	b.bc.o	10.2
	Seaford	-	72	49	bbc	b.o	10.7
	Brighton	-	70	50	c	c.o	10.6
	Worthing	-	72	49	bc	bc.	10.4
	Littlehampton	-	70	?	b	b.	9.8
	Bognor	-	70	48	ba	bc.o	?
	Southsea						
	Bournemouth	-	70	46	b.bc	bc.	11.0
England, S.W.	Weymouth	-	69	49	z.b	bz.	8.0
	Torquay	-	69	51	o.c	bc.c.	9.1
	Paignton						
	Penzance	4	62	54	bc	c.bc.	8.0
	Newquay	*	62	53	bc.c	bc.opt.	5.6
	Ilfracombe	-	63	45	b	b.bc.	11.0
	Weston-super-Mare ...	-	65	42	c.bc.	b.bc.b	3.0
	Bude.	1	69	37	b.bcpt	bcpt.	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.	24 Hours ended 9 A.M. To-day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	55	88	12.0	68	46	45	7	b	b.bc.c	o.drop.o
City (Bunhill Row)	*	*	11.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	51	84	12.1	68	47	48	9	bc	bc.r	e.ue
Camden Sq. (Brit. Rainfall)	47	82	11.6	72	47	45	7	b	bc.b	
Hampstead (Reservoir) ...	*	91	12.6	65	43	41	8	-	-	bc.z.ord
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	10.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	61	82	11.3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1749 Joules	32.9 Milliwatts.	70 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.)	-	69	47	43	b.bc	bbcpb	bcz	*

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

May 2nd & 3rd 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.22 / 4.20	11.50 / 11.50	7.18 / 7.19
Greenwich	4.32 / 4.31	11.57 / 11.57	7.22 / 7.23
Wick	4.18 / 4.16	12.9 / 12.9	8.0 / 8.2
Valencia	5.11 / 5.10	12.38 / 12.38	8.4 / 8.6

NOTES ON YESTERDAY'S WEATHER.

The day was bright over the country generally. Thunderstorms occurred in the afternoon and during the night at many stations in the South and South-East.

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

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 readings are expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 124.

Wednesday, 3rd May,

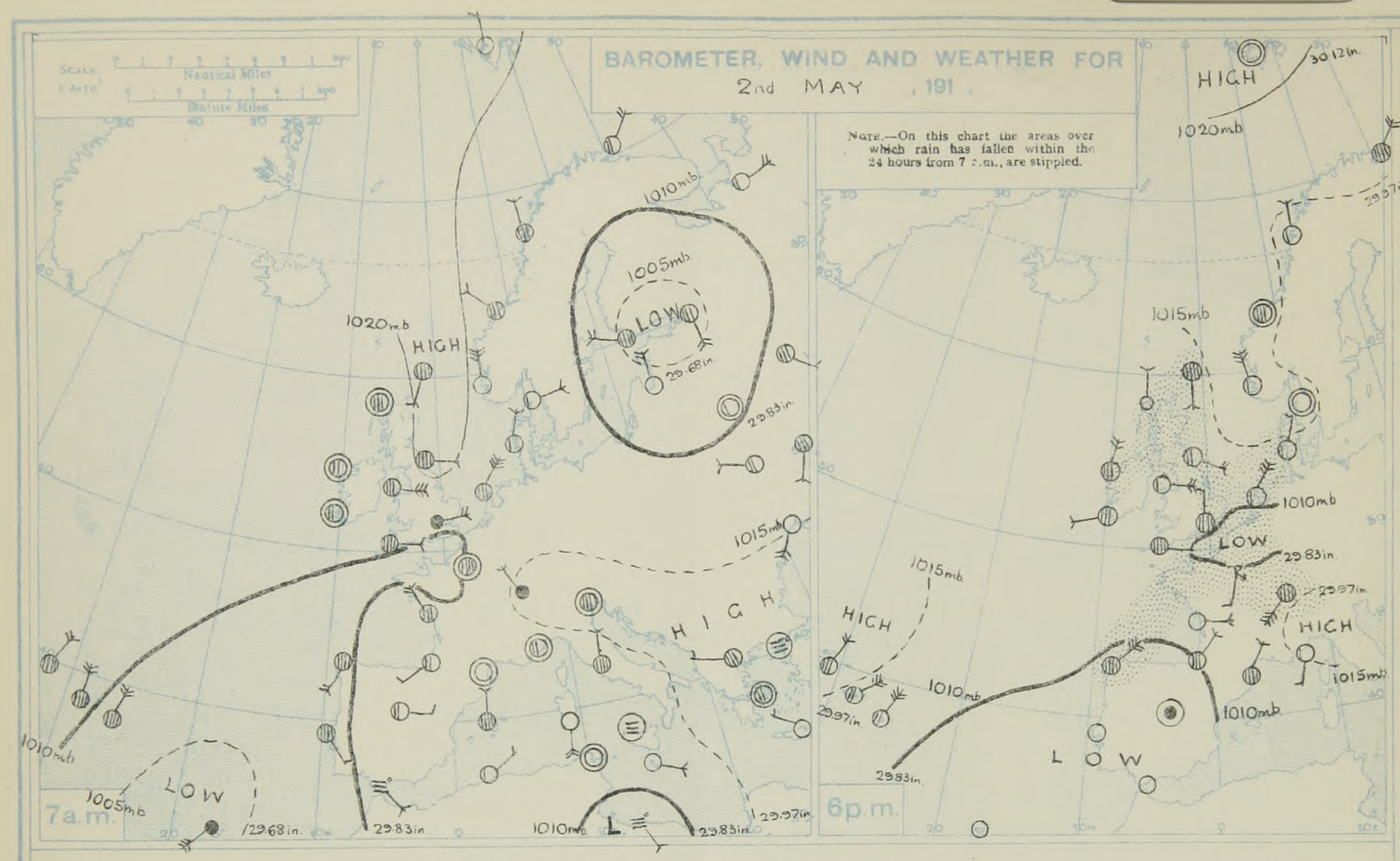
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	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 ...	1014·0	41	S	2	om	1006·7	-1	41	-1	-	0	-	om	0	13	44	38	0	ome	omr	*
	Deerness (Orkney)	1011·2	44	S	4	oc	1004·7	*	41	-3	NNW	2	W	c	1	4	47	37	o.c	c.oc.	or.c	1·0.
	Stornoway ...	1012·5	43	N	2	op	1006·0	-2	41	-4	NNE	3	-	bc	3	3	50	35	c.odp.	or.	o.bcp	0·5.
	Castlebay (Barra Isd.)	1011·7	46.	-	0	omr	1006·1	-1	43	-3	NNW	1	-	bc	0	4	49	39	r.o	or.omr	mr.p bc	0·0.
	Glasgow ...	1011·7	53.	WSW	1	omq	1004·4	-3	44	+3	SSW	2	-	omr	*	6	57	41	by	cm.	omr op	8·4
	Eskdalemuir ...	1012·1	50	SSW	2	or	1005·5	-3	41	+1	-	0	-	o	*	2	54	38	o.c.bc	c.o.or.	or.o.	2·6
	Malin Head ...	1011·2	51	ENE	1	om	1006·6	-2	43	-3	NNW	2	NW	bc	2	2	51	42	bcm	cmq.	omd	7·8.
	Blacksod Point	1011·8	48.	NNE	4	cm	1008·9	-2	44	-2	NNW	3	NW	bc	3	-	54	41	bcm.	bcm.	bc.	*
	Valencia ...	1011·7	53.	WSW	2	c	1009·9	0	47	+1	N	4	N	c	3	-	55	46	bc by	b.bczt	cg c	9·7
	Roche's Point	1013·2	50	E	2	o	1009·4	*	50	+2	NW	3	W	c	2	-	58	48	bz	bz.om	om.cm	*
	Birr Castle ...	1010·4	59	E	1	bc	1008·4	*	48	-3	NW	2	-	c	*	2	64	44	b	bct	b.r.c.	10·8.
	Donaghadee ...	1012·1	47	S	3	cgm	1006·2	-1	43	-1	N	4	-	ogmp	3	8	49	43	ogm	ogm.	ogmb	*
	Liverpool (Bidston)	1011·3	53	SE	2	b	1006·8	-2	44	+1	SE	?	-	b	2	-	59	40	o	bc	b.	2·2
	Holyhead ...	1011·0	53	E	4	bm	1006·4	-1	46	+1	SSW	4	-	om	3	Trace	57	48	c.o.cm	c.bc.bm.	b.om	2·6.
	Pembroke (St. Ann's)	1012·8	49	SE	1	o	1008·5	+1	47	+1	-	0	-	om	?	-	?	?	op	o.	o	0·0
	Scilly (St. Mary's)																					
	Falmouth ...	1010·7	50	ESE	1	o	1008·9	o	49	-2	W	2	-	om	*	-	52	48	o	o	ome	0·0.
	Jersey (St. Aubin)	1010·2	54	NW	2	og	1009·4	*	50	-1	W	2	-	ome	1	Trace	61	46	bc.of	f.bc.og	of.me	2·2.
	Portland Bill ...	1010·4	51	E	1	o	1008·4	-1	49	0	SW	1	-	f	3	-	54	48	o	o	of	*
	Dungeness ...	1008·9	52	ENE	3	c	1007·3	0	50	+1	SW	2	-	of	2	2	54	49	bc.or	r.bc	bc.o	*
	Dover	1009·3	51	N	3	c	1008·3	0	50	0	SW	2	SW	om	4	3	56	46	c.bc.o	op.r.c	c.omb	2·7
	Wick	1011·7	44	NNW	2	r	1005·1	-4	40	-3	NW	1	-	o	1	10	47	38	o.c	c.omd	d.r.om	*
	Nairn	1011·7	46	E	1	od	1005·3	*	36	-4	-	0	-	od	1	13	54	34	bc	p.c.o.	ru.o	3·8.
	Aberdeen ...	1012·9	43.	S	4	c	1004·3	-2	43	0	WNW	3	-	r	2	2	49	42	o.c.b.	b.bc.c.	bc or	5·0.
	Leith	1012·0	45	SSE	1	c	1003·7	-2	45	+3	W	1	-	o	2	2	49	42	c.bc.b	b	c.or.o	*
	Tyuemouth ...	1013·7	45	SE	3	bc	1005·8	-3	43	0	ESE	2	-	of	3	-	50	40	b	bc	cm.	*
	Spurn Head ...	1013·9	44	E	4	or	1007·5	-2	44	-1	N	4	-	or	4	6	49	41	c o	or.	or	2·0.
	Yarmouth ...	1011·5	47	NE	3	bc	1006·6	o	47	+1	NW	2	-	c	2	1	50	45	cp.bc	bc.c.	or.li	3·7
	Clacton-on-Sea	1009·9	50	ENE	3	o	1007·8	o	46	o	WNW	2	-	o	1	0·3	52	46	o.c	cp.o	ogdp	0·5
	Nottingham ...	1012·6	43	E	3	r	1007·5	*	44	o	SSW	1	S	b	*	13	49	39	o.c	or	r	0·2
	Benson (Oxon.) ...	1013·8	48.	NE	2	o	1008·4	o	45	o	NNE	1	-	o	*	9	49	44	or	r	o	*
	Sth Farnborough	1009·8	49	NE	1	m-	1007·8	o	47	o	WNW	1	-	o	*	8	50	46	rm	mr.o	o mr o	0·0
	London (Kew Obsy.)	1010·3	50	N	1	om	1008·0	o	48	o	WSW	1	-	om	*	5	50	47	o m.o.cm	o m. cm	om.omd cm	0·0
NORTHERN EUROPE.	Spitsbergen ...	1024·7	5	-	0	b	1028·4	+1	0	+2	S	1	*	b	*	*	14	-11				
	Vardö	1015·5	27	NE	4	o	1011·5	*	28	-4	NE	4	-	o	4	*	32	21				
	Bodö	1014·4	36	N	2	b	1015·1	+1	36	o	N	1	-	b	1	-	39	32				
	Christiansund	1017·0	39	-	0	c	1013·3	-2	41	+5	E	3	-	b	4	-	41	36.				
	Skudesnaes ..	1015·0	44	NNW	5	b	1009·3	-2	46	+5	E	2	-	b	2	-	46	45				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1016·4	46	-	o	b	1012·7	-3	48.	+2	ESE	2	-	c	2	-	50	41				
	Blaavands Huk	1014·4	52	NNE	1	b	1007·1	-5	48.	0	SE	4	-	r	3	1	50	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1010·4	54	NE	5	b	1005·2	o	48	o	SSW	5	-	f	3	Trace	55	48.				
	C. Gris Nez ...	1009·0	50	NNE	3	b	1005·6	o	50	-1	S	1	*	f	1	8	54	46.				
	La Heve	1009·0	56	-	o	o	1010·3	*	46	-8	-	0	*	f	0	5	70	46.				
	Brest (St. Mathieu)	1010·7	52	WSW	3	o	1009·7	o	52	o	WSW	3	*	o	1	1	57	52.				
	Rochefort (Ile d'Aix)	1011·3	58	W	3	bc	1009·1	-1	55	o	ENE	3	*	c	*	-	64	52				
	Biarritz	1010·0	63	NE	2	c	1007·7	o	59	+1	ESE	2	*	o	1	-	66	57				
	Paris	1009·7	63	S	2	clr	1010·1	+1	55	o	S	1	-	b	*	Trace	72	46.				
	Belfort	1014·4	58	SW	6	o	1014·0	*	57	+4	-	0	*	m	*	1	68	60				
	Lyons	1013·0	61	S	2	bc	1013·1	*	55	+3	ESE	1	*	bc	*	-	70	48.				
	Nice	1015·0	57	SW	1	b	1016·4	+1	63	+1	-	0	*	bc	1	-	70	52				
	Perpignan ..	1012·6	61	NE	2	o	1012·0	o	63	+4	NE	1	-	bc	*	-	70	54.				
	Sanguinaire ...	*	61	W	2	c	*	*	61	+1	SW	2	*	bc	2	-	68	54				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1009·5	59	NE	6	o	1002·9	-4	55	o	S	4	-	o	1	5	68	55.				
	Madrid (8 a.m.)	1009·7	63	-	0	r	1006·9	-2	59	+5	NE	1	-	o	*	?	66	52				
	Lisbon (9 a.m.)																					
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1012·4	+1	64	-2	E	2	-	b	1	-	75	63.				
	Azores (Horta, 8 a.m.)	1014·9	*	NE	5	bc.							*									
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		....1st... .., 8 P.M. G.M.T.					..2nd..M'ng.., 7 A.M. G.M.T.															
ITALY.	Venice	1014·9	59	-	o	b	1015·9	o	59	o	-	o	*	o	3	-	*	*				
	Turin	1010·5	59	-	o	c	1016·2	o	53	-2	-	o	*	r	*	2	*	*				
	Viesti	1015·0	59	SW	2	b	1014·6	o	59	-2	SE	2	*	o	3	-	*	*				
	Pesaro	1014·8	57	-	o	b	1015·6	o	57	-2	-	o	*	o	1	-	*	*				
	Leghorn	1014·2	63	-	o	b	1014·2	o	59	-4	-	o	*	bc	1	-	*	*				
	Rome	1013·0	63	-	o	b	1012·9	o	57	+4	N	2	*	o	*	-	*	*				
	Brindisi	1015·7	55	SE	2	c	1015·9	o	61	+4	SW	4	*	o	3	-	*	*				
	Cagliari	1011·4	64	NNE	4	b	1013·0	o	61	-9	S	4	*	b	3	-	*	*				
	Palermo	1011·7	63	-	o	f	1012·0	o	68	+5	-	o	*	f	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

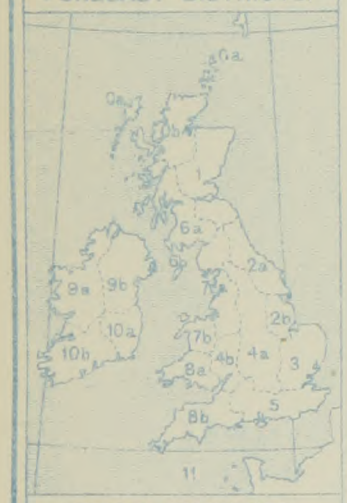
* Information for these columns not usually received. + Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 2nd MAY , 191 .



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 — Light or moderate Northerly or variable winds; dull, some rain, fairer intervals; cold.

2 {a b} 3 4 {a b} 5 — Light or moderate winds, chiefly Westerly; dull, some rain and mist, with some fairer intervals; rather cold; some tendency to thunderstorms.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} — Moderate North-Westerly winds; dull, some rain, and mist, some fairer intervals; cold.

8 {a b} — Same as Nos. 2 to 5.

9 {a b} — Light or moderate North-Westerly winds; fair, some showers; cold.

10 {a b} — Light or moderate winds, indefinite in direction; slight sea; dull, some rain and mist.

11

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

FURTHER OUTLOOK.

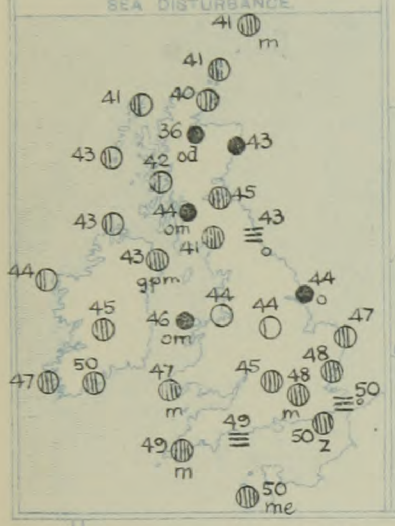
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 3RD MAY, 1916.

GENERAL INFERENCE.

Unsettled weather is likely to prevail under the influence of a depression which is forming over Scotland and another which is approaching the coast of Portugal.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale 1 : 2·10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 570

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

1010mb.
1015mb
1005mb
1010mb.
1010mb
1005mb
1015mb.
HIGH
LOW
falling
Barometer
generally
Barometer
steady
Barometer
LOW
falling
HIGH
40°
50°
60°
29.97in
29.83in.
29.68in.
29.68in.
29.83in.
29.97in

Issue No. 19,886. **DAILY WEATHER REPORT.** Wednesday, 3rd May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	1st May at 9 P.M. Local Time. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	2nd May 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	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Velikie Luki ...	-	-	-	-	-	1009.5	0	54	+4	S	2	*	b	*	-	*	*
Gorki	1012.4	54	-	0	b	1009.3	-1	52	+2	-	0	*	b	*	-	*	*
Hango	1005.3	43	-	0	c	1003.5	+2	37	-4	WNW	3	*	o	*	1	*	*
Riga	1010.0	55	-	0	c	1004.9	+2	50	-9	N	3	*	b	*	4	*	*
Petrograd	1011.7	55	SE	2	b	1004.8	-4	52	+4	NNE	4	S	c	*	..	63	43
Moscow	1018.6	55	SSE	1	c	1012.0	-1	50	-2	SSE	1	*	c	*	-	*	43
Kiev	1014.1	54	S	2	bc	1014.6	0	52	-2	WNW	2	*	D	*	-	*	48
Kharkov	1014.1	55	WNW	2	r	1013.6	0	54	+2	SSW	2	*	c	*	6	*	*
Kishinev	1013.5	54	S	1	c	1011.9	?	48	-4	SSW	1	*	b	*	1	*	37
Elisabetgrad ...	1013.7	50	S	2	b	1011.1	+1	50	0	SSE	2	*	o	*	3	*	46
Nicolaiev	1014.1	54	N	3	b	1011.6	*	54	+2	SSW	3	*	o	o	5	*	54
Odessa	1014.0	54	SSW	3	b	1011.9	+2	54	0	SW	4	*	o	o	3	*	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	-	57	44	0	bc.	4.7
	Banff	1	53	41	bc	bc.c	4.3
	St. Andrews						
	Carnoustie	-	48	43	o.bc	b.	6.4
Engd. N.E.	Harrogate	-	55	36	bc.b	b.bc.c	7.6
	Skegness	1	47	44	ogu	org	6.5
Engd. N.W.	Morecambe	-	61	42	bc.b.	b.	12.0
	Blackpool						
	Southport	-	63	40	b	b	10.6
Midlands.	Buxton	-	52	37	bc	bc	5.4
	Leamington Spa	3	50	44	o.c	or.	0.2
	Malvern						
	Ross-on-Wye	5	58	43	o.c.o	or	0.0
Wales.	Rhyl	-	61	41	b	b	3.5
	Colwyn Bay	-	54	42	bc	bc.	3.3
	Llandudno	-	55	42	b	b.	7.3
	Aberystwyth	1	53	45	r.o.c	o.	0.0
	Tenby	-	60	47	bc.o	o	0.0

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	2	50	45	c	c.bc.c.	3.4
	Felixstowe	0.2	51	46	o.bc	bc.o.	2.2
	Walton-on-Naze	0.2	51	47	bc	bcp bc	1.2
	Southend-on-Sea	2	52	42	o	mp.r	0.3
England. S.E.	Margate	3	53	49	c	cp.c	0.0
	Ramsgate	2	51	49	o.c	r.o.	0.8
	Hastings	11	58	48	or	bc.o.	2.5
	Eastbourne	5	?	?	bc.or.c	bc.o.	0.6
	Seaford	14	54	49	r.o	bc.c	0.6
	Brighton	7	57	49	or.o	o	0.0
	Worthing	5	54	49	r	o	0.1
	Littlehampton	10	54	49	r	p.o	0.0
	Bognor	10	54	48	bc	o	0.0
	Southsea						
	Bournemouth	22	52	47	r.o	o.	0.0
England. S.W.	Weymouth	9	53	48	o	om	0.0
	Torquay	5	?	48	o	o.	0.0
	Paignton						
	Penzance	-	53	51	o	o.	0.0
	Newquay	*	53	49	o	o	0.0
	Ilfracombe						
	Weston-super-Mare ...						
	Bude	10	52	47	d	rm.	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.) ...	94	87	0.0	51	47	47	5	o.or	or.o	o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	91	67	0.0	52	47	49	7	r	r.or	ud.ue
Camden Sq. (Brit. Rainfall)	88	83	0.0	53	47	47	7	o,or	or,o	*
Hampstead (Reservoir) ...	*	94	0.3	49	43	44	7	odoro	or.o	odoro
Richmond Park ...	*	*	0.0	Vertical Component of Solar Radiation per square centimetre during Yesterday.						
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.	Average Rate	Max Rate.				
S. Kensington (Roof of M.O.)	91	87	0.0	238 Joules	4.8 Milliwatts.	20 Milliwatts.				

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	57	37	34	bcw	bc	bc	7.2
Manchester ,,	-	59	42	*	o.c.bc	bc.c	cabcc	4.2
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	14	63	47	46	bc.or	oor	od.o	*

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

3rd & 4th May 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.20 / 4.19	11.50 / 11.50	7.20 / 7.22
Greenwich	4.29 / 4.28	11.57 / 11.57	7.25 / 7.26
Wick	4.14 / 4.12	12.9 / 12.9	8.4 / 8.6
Valencia	5.8 / 5.6	12.38 / 12.38	8.8 / 8.9

NOTES ON YESTERDAY'S WEATHER.

Sunshine was fairly abundant in the north-west of the country, but elsewhere the weather was cloudy to dull, with rain. Much mist and fog is reported round the southern coasts of England this morning.

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 booksalls at certain Railway Termini in London.

Printed at the Meteorological Office, South Kensington, London, S.W. By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

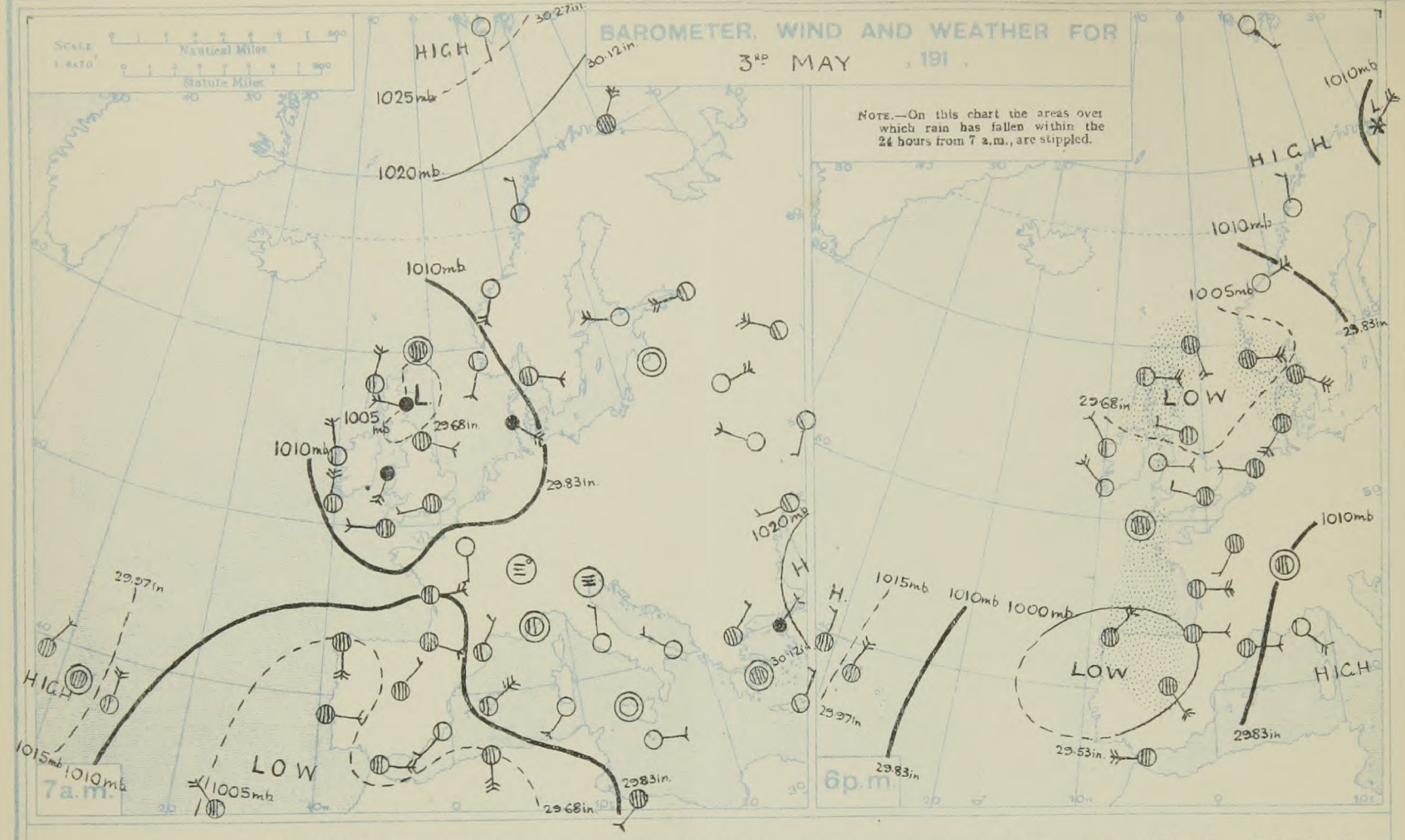
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 125. Thursday, 14th May.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp °F	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. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Min. °F.	Weather. Morning.	Afternoon	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1002.1	41	SSE	3	om	1001.5	+1‡	43	+2	WSW	3	SW	bc	3	11	44	35	omp	omd	c bc	*
	Deerness (Orkney)	1001.7	45	NW	3	bc	1003.0	*	42	+1	SW	4	-	b	3	-	46	36	c.o	o.c.bc	bc.b	3.3
	Stornoway ...	1003.7	44	ENE	3	bc	1003.4	+1	41	0	WSW	1	-	b	1	1	46	34	cp	cpn.bc	bc.b	5.6
	Castlebay (Barra Isd.)	1003.3	46	NNE	3	c	1004.4	0	42	-1	NNW	2	-	b	2	2	47	36	bc.op	op.c	c.bc.b	4.0
	Glasgow ...	1003.8	49	WSW	3	bc	1005.7	+3	41	-3	W	2	SW	bc	*	0.1	53	36	op.c.bc	bc	bc.bx	10.0
	Eskdalemuir ...	1004.3	49	W	3	bcv	1005.7	+1	43	+2	SW	3	SW	c	*	1	53	29	or.o	o.bcv	bv.c.of	5.6
	Malin Head ...	1004.5	47	W	3	bcv	1004.8	+1	43	0	NW	3	NW	bcp	3	1	50	40	bc	bcv	cgp	9.9
	Blacksod Point	1005.7	45	NW	2	bcv	1006.4	0	43	-1	NE	2	NE	b	2	-	51	38	bcv	bcv	bc.bv	*
	Valencia ...	1008.2	50	NW	3	b	1006.1	-1	43	-4	N	3	SW	bc	2	-	52	38	cv.b	bv	b.bc	12.4
	Roche's Point	1008.3	52	S	2	bc	1006.9	*	44	-6	N	2	-	o	1	-	58	42	c	c.b	bc.bo	*
	Birr Castle ...	1006.1	53	NW	2	c	1007.3	*	40	-5	WNW	1	-	b	*	-	55	36	c	c	bc.b	10.3
	Donaghadee ...	1005.6	46	E	3	c	1006.2	43	41	-2	WSW	3	-	bcm	2	-	50	39	bc	bc	bcm	*
	Liverpool (Bidston)	1006.3	54	WNW	1	b	1006.5	0	43	-1	SE	1	-	bc	1	-	55	137	bc.o	o.c.b	bm.c	7.0
	Holyhead ...	1006.4	50	E	2	bz	1005.3	0	46	0	N	3	-	bc	2	2	54	42	orf.c	bm	b.bc.b	7.4
	Pembroke (St. Ann's)	1008.1	53	N	1	bc	1005.9	-1	46	-1	NNE	1	-	o	2	-	55	44	om	bc	o	1.1
	Scilly (St. Mary's)	1006.6	52	-	0	om	1001.1	-2	49	-	NE	3	-	omr	3	4	56	48	om	om	om.omr	2.6
	Falmouth ...	1006.3	52	WSW	1	bz	1004.8	-4	49	0	NE	1	-	r	*	3	55	48	o.c.o	o	od.r	0.2
	Jersey (St. Aubin)	1007.2	56	SW	2	bc	9996	*	53	+2	E	3	-	og	3	-	59	50	ome.c	c.o.bc	og	2.0
	Portland Bill ...	1007.9	49	SE	1	f	1002.4	-5	49	0	NE	3	S	o	2	Trace	53	46	o.f.m	m.f	f or	*
	Dungeness ...	1007.6	51	WSW	2	bc	1003.9	-3	52	+2	ENE	3	-	o	3	-	55	44	f	f.bc	bcf.c.o	*
	Dover	1007.7	51	SW	2	c	1006.8	-3	55	+5	ENE	2	NE	bcz	3	-	55	44	c.bz	bcz	z.c.bc	3.9
	Wick	1002.6	40	SW	1	0	1004.2	+1	40	0	WNW	1	-	bc	1	8	45	32	mp	omrgp	bc	*
	Nairn	1003.6	40	-	0	c	1004.0	*	40	+4	-	0	-	bc	1	1	48	29	cl.o	b.c	c.bcx	0.8
	Aberdeen ...	1002.4	46	-	0	bc	1004.6	+1	44	+1	SW	1	-	b	1	3	48	38	or.op	op.bc	bcp.b	*
	Leith	1003.3	52	W	1	b	1005.2	0	43	-2	W	1	W	c	2	0.1	54	39	o.c.bc	b	b.bcp.c	*
	Tynemouth ...	1003.9	51	WNW	1	cm	1005.6	0	43	0	W	1	-	bm	2	-	52	38	omd	om	cm	*
	Spurn Head ...	1005.6	52	SW	3	o	1007.3	0	47	+3	N	1	-	om	2	-	56	41	bcv	bc.o	om	4.6
	Yarmouth ...	1007.1	55	W	2	bc	1006.9	0	48	+1	S	2	-	bcm	2	-	56	45	c	c.bc	bm.bcm	0.8
	Clacton-on-Sea	1007.2	52	SSE	2	c	1005.9	?-1	52	+4	ENE	2	-	o	2	-	54	47	og	og.cm	cm.o	1.1
	Nottingham ...	1005.9	54	W	3	c	1006.5	*	46	+2	ENE	1	E	dm	*	Trace	58	43	bcm	o.cm	c.om	7.1
	Benson (Oxon.) ...	1007.0	54	S	1	o	1004.6	-3	49	+4	ENE	2	-	o	*	-	55	43	o	o	bc.o	*
	Sth Farnborough	1006.6	56	SW	1	o	1004.0	-3	49	+2	ENE	2	-	om	*	-	57	45	o	o	c.bfm	0.0
	London (Kew Obsy.)	1007.2	55	WNW	1	o	1004.5	-2	51	+3	ENE	2	-	om	*	-	58	43	om.o	o	o.bmw.or	0.4
NORTHERN EUROPE.	Spitsbergen ...	1017.9	3	SE	1	b	1020.0	+2	0	0	SSE	1	*	b	*	*	12	43				
	Vardö	1009.7	29	NE	4	s	1010.6	0	25	-3	N	5	-	s	5	*	28	25				
	Bodö	1016.6	36	N	1	b	1012.7	-3	30	-6	E	5	-	b	2	-	34	28				
	Christiansund	1006.6	46	ENE	4	b	1001.5	0	45	+4	-	0	-	o	3	-	50	36				
	Skudesnaes .. Færder (X'tania Fjord)	1003.1	41	E	4	o	1005.2	+3	45	-1	SE	2	-	m	2	6	48	39				
	The Scaw (Skagen)	1003.3	46	ESE	5	o	1008.2	+5	45	-3	SW	3	-	o	3	10	48	43				
	Blaavands Huk	1004.4	48	SW	4	o	1010.4	+1	50	+2	WSW	1	NW	b	1	8	52	43				
FRANCE, &c.	The Helder ...	1008.0	48	W	2	o	1008.3	0	51	+3	E	1	N	bc	1	-	50	39				
	C. Gris Nez ...	1007.7	50	-	0	b	1004.2	-3	55	+5	E	4	*	bc	2	Trace	57	46				
	La Hève	1008.2	55	N	2	o	1003.4	*	59	+13	ESE	4	*	m	2	-	61	46				
	Brest (St. Mathieu)	1005.5	59	E	1	o	1000.8	-3	50	-2	NE	6	*	c	1	10	59	50				
	Rochefort (Ile d'Aix)	1003.4	68	E	4	c	999.7	0	59	+4	SE	4	*	o	*	-	75	54				
	Biarritz	1000.0	72	E	2	o	998.7	0	61	+2	SE	2	*	o	o	-	74	57				
	Paris	1007.3	66	SW	1	o	1003.7	0	61	+6	-	0	SW	bc	*	-	72	52				
	Belfort	1010.0	66	-	0	c	1009.0	*	61	+4	E	4	*	b	*	-	73	52				
	Lyons	1008.8	68	SSW	2	c	1005.7	*	61	+6	-	0	*	o	*	-	73	55				
	Nice	1013.0	63	SE	3	b	1009.1	?	?	?	E	5	*	?	6	-	72	57				
	Perpignan .. Sanguinaire ...	1009.1	59	ESE	2	o	1006.3	-2	59	-4	NE	1	-	o	*	-	66	50				
		*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	999.5	63	NE	3	o	996.3	-2	59	+4	SE	3	-	b	1	7	63	55				
	Madrid (8 a.m.)	999.8	64	SE	4	o	1001.9	-1	54	-5	SW	1	-	o	*	2	73	48				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1014.4	*	NNE	4	o							*									
	Madeira (Funchal)																					
	Gibraltar	1004.7	60	W	4	c	1003.7	*	58	-3	W	4	*	bc	3	10	63	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1011.1	-2	63	-1	ENE	5	SW	o	5	-	68	61				
	Limassol (6 a.m.)	*	*	*	*	*	1015.3	0	70	0	-	0	-	b	0	-	81	52				
	Alexandria (6 a.m.) Cairo (Helwan) 6 a.m.																					
YESTERDAY'S REPORTS		2nd ....., 8 P.M. G.M.T.					3rd ....., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1015.4	57	-	0	b	1015.4	0	57	-2	-	0	*	f	2	-	*	*				
	Turin	1015.1	59	-	0	c	1015.9	0	57	+4	-	0	*	o	*	Trace	*	*				
	Pesaro	1015.5	55	-	0	b	1016.6	+2	57	0	-	0	*	o	0	-	64	48				
	Leghorn	1015.0	63	-	0	b	1015.0	0	63	+4	-	0	*	b	1	-	*	*				
	Rome	1013.5	63	N	1	b	1014.6	+2	61	+4	N	1	*	b	*	-	72	54				
	Viesti	1014.2	61	WSW	2	c	1013.6	0	63	+4	NW	2	*	o	2	-	*	*				
	Brindisi	1013.5	63	SW	1	o	1013.5	0	59	-2	NW	1	*	o	3	-	63	52				
	Cagliari	1012.8	77	SE	3	b	1013.1	0	63	+2	WSW	2	*	b	1	-	77	50				
	Palermo	1014.4	63	NNE	1	f	1014.0	0	64	-4	-	0	*	b	2	-	75	52				
	Tripoli	1007.6	68	-	0	b	1010.6	0	64	-15	SW	2	*	o	3	Trace	*	*				
	Algiers	1009.4	61	NE	3	m	1003.3	+1	59	-4	S	5	*	c	4	-	66	59				

UPPER AIR.
Aberdeen:-
Pilot Balloon Ascent at ...8 a.m.
Wind at 10,000 feet SW 29 m.p.h.
" " 9,000 " SW 29 "
" " 8,000 " SW 21 "
" " 7,000 " SW 16 "
" " 6,000 " SSW 14 "
" " 5,000 " SSW 10 "
" " 4,000 " SW 11 "
" " 3,000 " S 12 "
" " 2,000 " S 11 "
" " 1,000 " S 11 "
" " 500 " S 10 "
" " Surface S 4 "

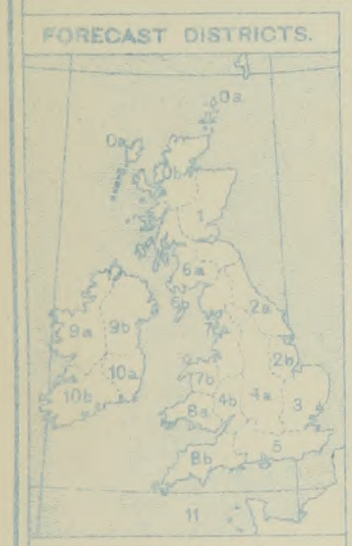
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 3rd MAY , 191 .



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

FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.



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 — Light winds indefinite in direction: fair, some showers, becoming milder.

2 {a b} 3 4 {a b} 5 — Light or moderate Easterly winds; dull, some light rain and mist, with fairer intervals; normal temperature.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} — Moderate Easterly winds; dull, some rain and mist; normal temperature.

9 {a b} 10 {a b} — Light winds becoming North-Easterly; fair intervals, rain at times; normal temperature.

11 — Moderate North-Easterly winds and slight sea; dull, some rain.

FURTHER OUTLOOK.

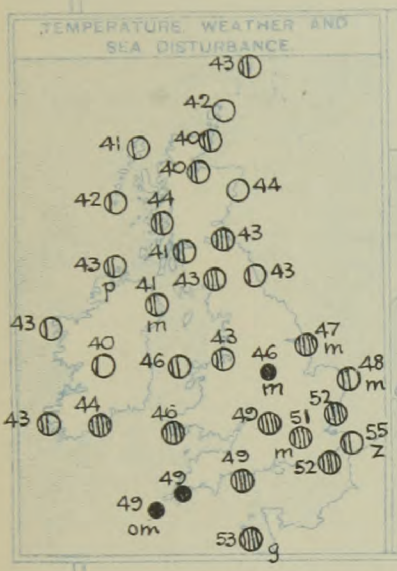
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 4TH MAY, 1916.

GENERAL INFERENCE.

The depression over the Bay region will cause unsettled weather in the south but quiet conditions are likely to continue.



EXPLANATION.

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

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

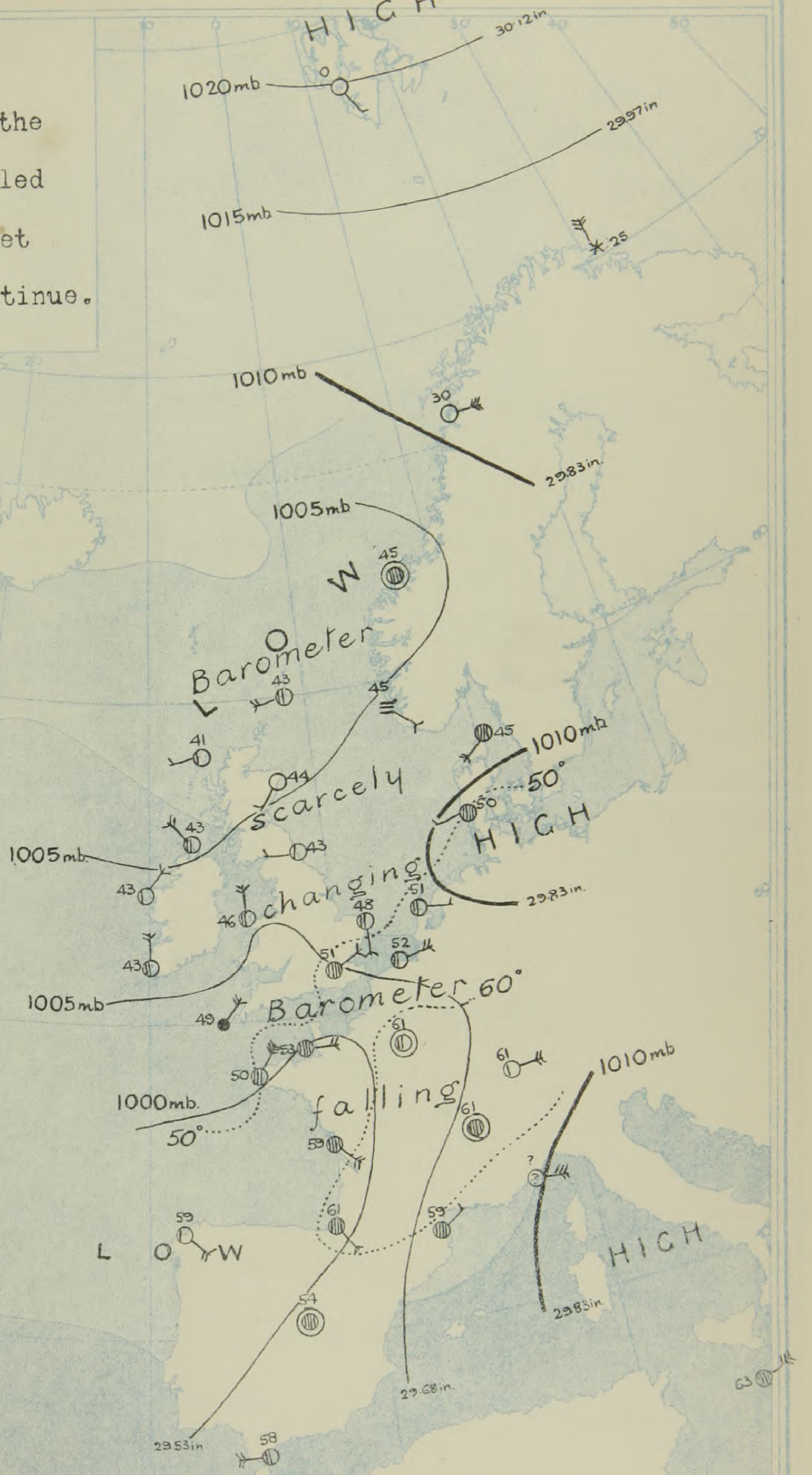
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

Normal Temperature of the Sea.

Scale of Tints for MAY.



Issue No. 19887

DAILY WEATHER REPORT.

Thursday, 4th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	2nd AT 9 A.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	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.	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	-	-	-	—	-	-	-	-	-	-	-	*	-	-	-	*	-
Gorki	-	-	-	-	-	1018·1	+6	43	-9	ENE	3	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	-	1019·8	?	39	-15	W	3	*	b	*	-	*	*
Hangö	1019·2	36	SSE	3	b	1018·0	+4	37	0	WNW	3	*	b	0	-	*	32
Riga	1016·8	43	N	2	b	1013·1	+3	45	-5	—	0	*	b	*	-	*	36
Petrograd	1009·6	37	W	5	0	1013·6	+3	39	-13	W	4	-	bc	*	-	55	36
Moscow	1008·3	52	S	1	b	1011·8	+5	48	-2	NW	4	*	bc	*	-	*	48
Kiev	1013·6	55	WSW	2	bc	1017·1	+3	52	0	NW	2	*	b	*	2	*	46
Kharkov	1014·7	52	ENE	1	b	1017·2	+2	52	-2	SW	1	*	b	*	10	*	48
Kishinev	1017·3	59	S	2	bc	1019·7	?	52	+4	NW	2	*	b	*	1	*	46
Elisabetgrad ...	1015·3	54	-	0	b	1017·6	+3	52	+2	SSW	1	*	b	*	4	*	46
Nicolaiev	1016·2	57	SW	4	b	1018·0	*	55	+1	SW	2	*	b	*	-	*	?
Odessa	1016·6	57	SW	4	b	1018·4	+1	57	+3	W	1	*	bc	*	-	*	36
Tarkhankout ...	-	-	-	-	-	1020·3	?	50	-	S	4	*	f	0	-	*	50
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-

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	52	41	bc	bc	7·8
	Banff	5	47	40	c d	c. bc	0·1
	St. Andrews	2	56	41			4·8
	Carnoustie	5	53	43	r	r. bc	4·1
Eng. N.E.	Harrogate	-	56	34	b	bc	7·4
	Skegness	3	54	42	o bc	bc	6·0
Eng. N.W.	Morecambe	-	53	38	bcv	bc. b	3·0
	Blackpool						
	Southport	-	53	37	b. bc. o	d. o. bc. b	3·9
Midlands.	Buxton						
	Leamington Spa	2	56	41	o. c	o. c	0·1
	Malvern	2	54	40	m	m. bc. c	0·5
	Ross-on-Wye	2	55	42	or d	o. cd	0·0
Wales.	Rhyl	0·3	52	36	o. cp	bc	5·5
	Colwyn Bay	-	51	40	cp	bc. b	3·5
	Llandudno	1	51	39	cr. b	b	2·5
	Aberystwyth	-	50	46	o c o	c. bc	2·0
	Tenby	-	52	48	bc. c. o	bc. c	0·0
England, E.	Lowestoft	1	55	45	o. c. o	o. c	1·0
	Felixstowe	0·4	55	45	om	o. bcm	1·4
	Walton-on-Naze ...	trace	54	45	bc. c	c. bc. c	1·4
	Southend-on-Sea	-	58	48	g	g	0·7
England, S.E.	Margate	-	59	48	o3	o. c	0·5
	Ramsgate	-	55	46	o	o. c	0·4
	Hastings	-	55	48	f. c	bc	3·9
	Eastbourne	-	58	53	b. bc	b. bc	5·0
	Seaford	-	58	48	m	b	2·8
	Brighton						
	Worthing	-	57	50	o	bc	2·0
	Littlehampton	-	55	50	o	bc. o	1·6
	Bognor						
	Bournemouth	-	57	48	or	bc. o	1·7
England, S.W.	Weymouth	-	55	49	m. o. c	o. bem	0·0
	Torquay	0·2	57	50	o	o. c	0·2
	Paignton	-	58	47	o	o	0·0
	Penzance	-	57	49	o	c	1·0
	Newquay	*	54	47	o	bc	4·2
	Bude	4	57	48	d m o c	c bc. c	4·4
	Ilfracombe	3	53	45	o	bc. cf	3·0
	Weston-super-Mare ...	-	54	45	o	om	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.) ...	75	83	0·1	59	45	35	-	0	0	bcop
City (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	80	0·5	59	46	44	-	0	0. om	0. od
Camden Sq. (Brit. Rainfall)	68	77	0·8	61	46	41	-	0	c. o	*
Hampstead (Reservoir) ...	*	80	0·5	56	45	42	-	0	0	bcmop
Richmond Park ...	*	*	0·2							
Kew. (See front page.)	*	*	0·4							

(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.
653 Joules	12·2 Milliwatts.	53 Milliwatts.

S. Kensington (Roof of M.O.)	75	84	0·3

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.	-	55	34	30	bcw.	bc	bcow	4·8
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·2	58	47	48	0	0	0	*

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

4th & 5th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.19 / 4.18	11.50 / 11.50	7.20 / 7.22
Greenwich	4.29 / 4.28	11.57 / 11.57	7.25 / 7.26
Wick	4.14 / 4.12	12.9 / 12.9	8.4 / 8.6
Valencia	5.8 / 5.6	13.38 / 13.38	8.8 / 8.9

NOTES ON YESTERDAY'S WEATHER.

Sunshine was variable, 12·4 hours at Valencia, but in general the amounts were not large. Little rain fell but there was a good deal of mist and fog over the southern parts of the country.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 126. 15th May

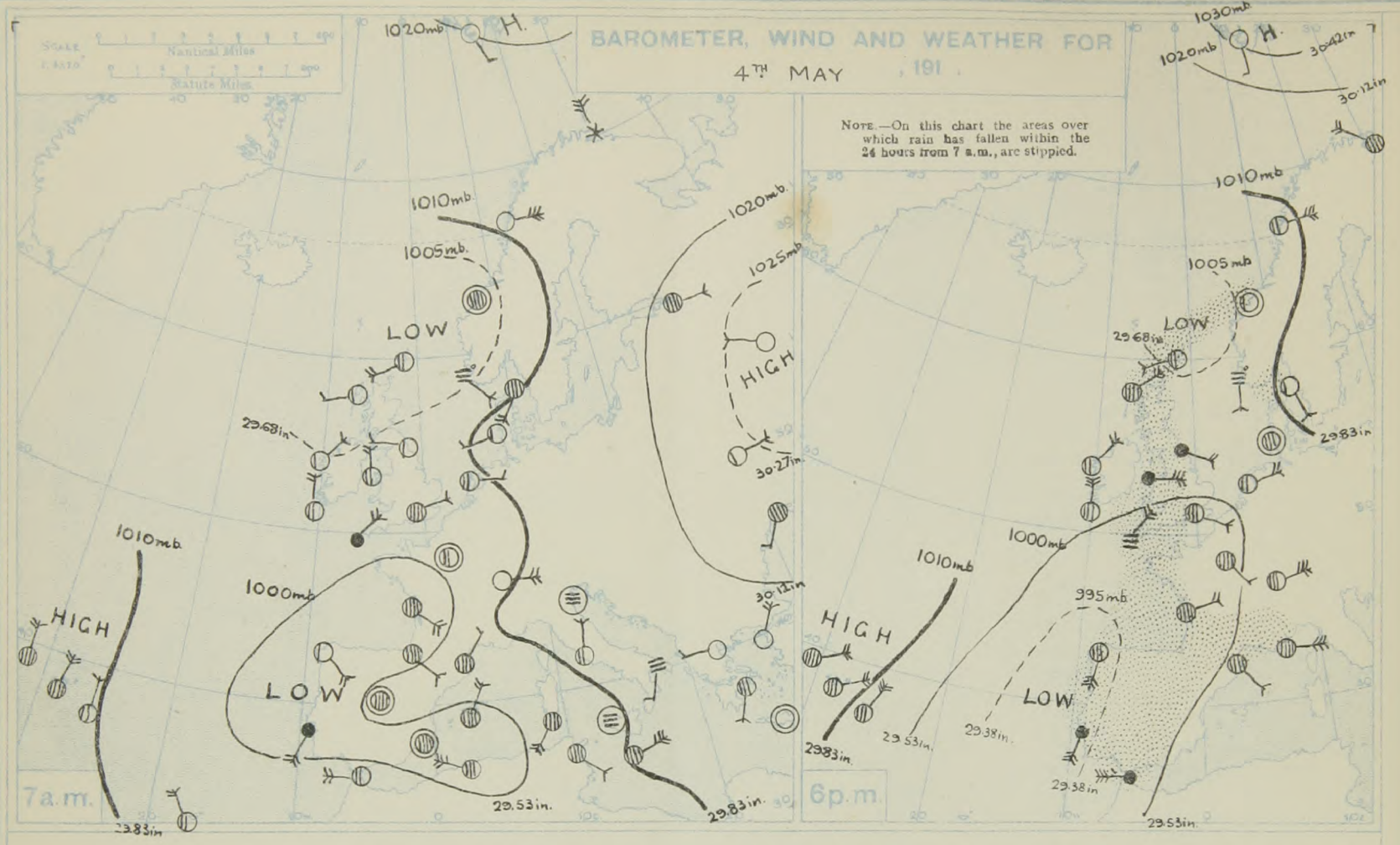
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon	Weather. Night.	Hours.
BRITISH ISLANDS.	Lerwick ...	1002.1	45	WSW	2	bc	1007.0	+ 0	41	-2	NNE	5	-	om	4	0.3	46	39	bc	bc	oing	*
	Deerness (Orkney)	1005.7	44	NW	4	cp	1008.1	*	42	0	N	4	SW	c	3	-	48	40	b	b.bc.cp	c.bc.c	11.5
	Stornoway ...	1007.7	44	NE	4	o	1009.3	+1	43	+2	NE	4	-	cq	4	2	49	38	bc	bc.op	o.cpq	6.8
	Castlebay (Barra Isd.)	1007.3	46	NNW	3	b	1007.4	0	45	+3	NNe	5	NE	bq	5	-	48	41	bc	bc.b	bq	12.3
	Glasgow ...	1004.4	52	-	0	ou	1005.7	+1	41	0	ENE	3	-	cg	*	0.3	55	40	bc	bc.c	cg.op	7.3
	Eskdalemuir ...	1004.0	50	NE	1	ov	1005.0	0	38	-5	NE	6	S	or	*	5	53	37	c.bc	c.ov	o.or	5.2
	Malin Head ...	1005.5	47	NNE	3	bv	1004.4	0	45	+2	NE	2	-	om	3	-	49	42	bcv	bv	om	13.7
	Blacksod Point	1005.1	46	NE	3	bcv	1004.6	-1	45	+2	NE	5	NE	bc	3	-	49	40	bv	bcv	bc	*
	Valencia ...	1002.2	48	N	5	c	1001.5	0	46	+3	N	4	-	c	3	-	51	43	bcv	cv	cv.oc	7.3
	Roche's Point	1002.9	49	E	3	o	1000.3	*	46	+2	N	2	-	o	2	0.3	55	44	c.o	o	op.o	*
	Birr Castle ...	1003.1	49	NE	2	c	1001.6	*	42	+2	N	3	-	o	*	-	53	39	b	c	o	6.3
	Donaghadee ...	1004.7	45	NNE	3	cg	1003.6	0	44	+3	ENE	4	-	ogm	3	0.1	50	40	bc	cg	cg.omp	*
	Liverpool (Bidston)	1003.4	44	NE	2	r	999.2	0	?45	+2	ENE	4	E	og	3	12	48	42	c.o	or	or	0.0
	Holyhead ...	1003.2	45	E	5	orm	998.1	-2	45	-1	E	7	-	opm	6	6	52	44	bc.c.om	om.orm	orp.dm	2.4
	Pembroke (St. Ann's)	999.3	46	NNE	5	r	997.2	-2	48	+2	NNE	2	-	or	2	?7	48	46	or	or	o	0.0
	Scilly (St. Mary's)	995.9	49	NE	4	f	993.9	-1	49	0	N	3	-	f	3	9	50	48	fr	fr	om.om.f	0.0
	Falmouth ...	995.6	55	SE	1	oq	994.2	0	51	+2	E	1	-	r	*	6	57	48	r.o	o	c.or	0.1
	Jersey (St. Aubin)	996.8	59	SE	2	og	992.6	*	60	+7	NE	2	-	o	1	1	65	53	og.c	c.og	op.d.o	3.1
	Portland Bill ...	997.3	52	E	3	bc	995.2	-2	52	+3	ENE	3	-	c	3	1	58	48	cp	bc	cp	*
	Dungeness ...	999.0	57	E	2	c	995.3	-2	56	+4	E	2	SE	bc	2	1	59	51	o.c.bc	bc.c	c.bc	*
	Dover	999.8	64	NNW	1	c	995.8	-2	66	+11	NE	2	SE	bc	2	-	71	53	bc.c.bc	bc.c	c.bc	8.1
	Wick	1006.3	45	NW	3	bc	1008.1	0	42	+2	N	3	-	c	3	0.4	46	38	bc.rph	cr.ph	o.bc.c	*
	Nairn	1006.2	50	-	0	c	1007.8	*	43	+3	NE	3	-	cg	3	0.2	52	38	b.bc	cv.bc	dfg	10.5
	Aberdeen ...	1006.8	47	ENE	3	o	1007.2	+1	44	0	NNE	3	-	o	2	-	54	42	b.bc	bc.c.o	o.bc.o	8.3
	Leith	1004.6	51	E	1	c	1005.9	0	43	0	E	1	-	o	3	1	54	42	c.bc	c.bc.o	oc.o.o	*
	Tynemouth ...	1005.0	45	SE	3	omgr	1004.0	-2	42	-1	NE	3	-	omd	4	14	55	41	bcm	omr	omr	*
	Spurn Head ...	1002.4	45	ENE	5	o	1001.2	0	46	-1	ENE	4	-	o	4	7	48	43	omr	or	o	0.0
	Yarmouth ...	1000.2	51	SE	2	bc	997.9	-1	53	+5	NE	1	-	b	1	-	53	47	bcm	bcm	omt.bc	3.0
	Clacton-on-Sea	999.3	57	ENE	2	c	997.3	0	62	+10	NNE	2	-	bc	1	-	62	51	o.c.bc	bc.cm	c.om.bc	5.1
	Nottingham ...	1001.0	45	NE	3	o	1000.3	*	45	-1	ENE	3	NE	dm	*	10	48	43	or	r.o	o	0.0
	Benson (Oxon.) ...	997.8	59	NE	1	o	997.6	0	48	-1	NNE	4	-	o	*	1	65	48	o	bc	o	*
	Sth Farnborough	997.7	65	S	3	o	996.3	0	56	+7	NNE	1	-	om	*	0.2	72	49	mr.bc.o	o.bc.o	om	4.6
	London (Kew Obsy.)	997.8	64	SE	2	c	996.9	0	54	+3	NNE	2	NE	om	*	Trace	70	51	om.d.om	om.oz.c	c.o.om	1.3
NORTHERN EUROPE	Spitsbergen ...	1033.1	5	S	1	b	1032.9	0	7	+7	SE	1	*	b	*	*	14	-8				
	Vardö	1010.1	27	NW	4	o	1009.1	0	27	+2	WNW	4	-	o	4	*	27	21				
	Bodö	1008.7	36	E	5	bc	1011.0	+1	36	+6	E	2	-	bc	1	-	37	30				
	Christiansund	1005.2	45	-	0	b	1008.3	0	45	0	-	0	-	b	3	2	48	41				
	Skudesnaes ..	1007.7	46	S	2	m	1005.0	0	45	0	NNE	3	-	o	1	-	48	43				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1010.6	46	SSE	2	b	1003.4	-4	50	+5	E	2	-	c	2	1	52	45				
	Blaavands Huk	1007.8	55	-	0	c	1001.9	0	55	+5	S	2	-	o	-	-	55	48				
FRANCE, &c.	The Helder ...	1001.0	57	ENE	3	bc	999.1	-1	61	+10	E	1	SW	bc	1	-	63	51				
	C. Gris Nez ...	999.1	64	S	3	o	995.4	-3	66	+11	S	1	*	c	o	-	75	55				
	La Hève	999.5	69	SSE	3	c	995.1	*	61	+2	E	2	*	c	1	-	70	59				
	Brest (St. Mathieu)	997.0	55	SW	3	o	996	-4	52	+2	NE	3	*	o	2	7	64	46				
	Rochefort (Ile d'Aix)	995.8	64	ENE	3	o	994.4	-2	55	-4	SSW	5	*	f	*	1	70	55				
	Biarritz	995.5	59	WNW	2	o	993.7	0	59	-2	S	3	*	o	o	6	70	55				
	Paris	999.5	70	ESE	2	o	996.3	-1	61	0	ENE	1	-	o	*	-	81	59				
	Belfort	1003.3	72	ENE	5	c	997.5	*	64	+3	ENE	4	*	o	*	-	77	61				
	Lyons	1000.4	70	WNW	2	bc	998.7	*	61	o	S	2	*	r	*	1	78	54				
	Nice	1003.1	75	E	6	o	1003.1	+3	57	-	E	5	*	r	5	10	77	54				
	Perpignan ..	1001.0	61	SE	2	o	995.5	-2	61	+2	S	1	S	r	*	Trace	73	57				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	994.0	64	SSW	5	c	989.6	-1	59	0	S	7	S	c	2	?	68	55				
	Madrid (8 a.m.)	999.5	66	SE	2	o	1001.2	+3	52	-2	S	1	-	r	*	13	59	45				
	Lisbon (7 a.m.)	994.9	55	SSW	5	r	1000.8	+4	57	-	SW	6	-	o	7	9	61	54				
	Azores (Horta, 8 a.m.)	1010.4	*	NE	4	c							*									
	Madeira (Funchal)																					
	Gibraltar	1005.4	59	W	7	r	1008.8	*	61	+3	W	6	*	bc	5	5	64	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1008.7	+2	68	+5	SSW	4	-	f	2	-	72	63				
	Limassol (6 a.m.)	*	*	*	*	*	1011.3	+1	61	-9	-	0	-	b	0	-	90	54				
	Alexandria (6 a.m.)	1014.3	68	-	0	b	1015.8	+1	72	+4	-	0	-	b	0	-	77	64				
	Cairo (Helwan) (6 a.m.)	1012.0	79	NE	3	b	1014.9	+2	70	-2	-	0	-	b	0	-	90	59				
	YESTERDAY'S REPORTS			3rd ..., 8 P.M. G.M.T.																		
MEDITERRANEAN.	Venice	1015.9	63	-	0	b	1016.6	0	57	0	-	0	*	f	3	-	*	*				
	Turin	1014.9	63	-	0	o	1016.7	0	61	+4	-	0	*	o	*	-	*	*				
	Pesaro	1016.3	61	NNW	4	b	1016.7	+3	59	+2	-	0	*	b	2	-	66	48				
	Leghorn	1014.6	66	-	0	b	1013.6	0	68	+5	NE	2	*	b	3	-	*	*				
	Rome	1014.7	64	-	0	b	1013.0	+1	63	+2	N	2	*	bc	*	-	75	55				
	Viesti	1016.3	59	-	0	b	1017.0	0	61	-2	-	0	*	c	2	-	*	*				
	Brindisi	1018.9	59	SSW	1	c	1017.0	0	57	-2	SSW	1	*	f	-	-	61	52				
	Cagliari	1009.9	75	NNE	4	b	1006.1	0	66	+3	SSW	4	*	o	4	-	70	52				
	Palermo	1012.8	59	-	0	b	1009.1	+1	68	+4	N	1	*	f	0	-	70	52				
	Tripoli	1005.4	66	-	0	b	1004.0	0	68	+4	E	2	*	m	1	-	*	*				
	Algiers	998.0	86	S	4	o	997.9	0	64	+5	WNW	5	*	c	4	-	93	61				
							4th ..., 7 A.M. G.M.T.															

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.13 a.m.

Wind at 7,000 ft.	SE by S	24 mph.
6,000	S by E	21
3,000	ESE	19
2,000	E by S	20
1,000	ENE	19
Surface	NE by N	5

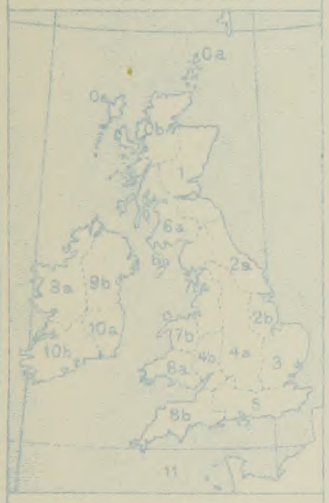
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 4TH MAY , 191 .



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 — Moderate or fresh North-Easterly or Northerly winds; cloudy, some rain; rather cold.

3, 4 a b, 5 — Moderate Easterly or North-Easterly winds; some rain and mist, fairer intervals, tendency to thunderstorms; warm in day.

6 a b — Same as Nos. 0 to 2.

7 a b — Strong Easterly or North-Easterly winds; then moderating later; dull, some rain; rather cold.

8 a b, 9 a b, 10 a b — Moderate or fresh North-Easterly winds; dull, some rain; normal temperature.

Western Channel and Bay 11 — Moderate North-Easterly or Easterly winds; moderate sea; dull, some rain with mist or fog.

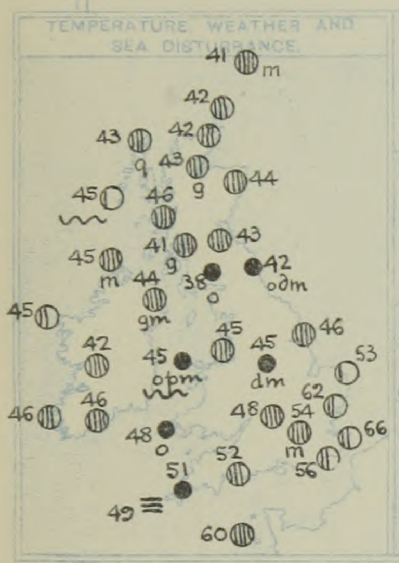
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 5TH MAY, 1916.

GENERAL INFERENCE.

The depression over the Bay of Biscay will continue to spread northward and will cause unsettled weather over the country.



EXPLANATION.

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

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

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

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ½ clouded. ◍ sky ½ clouded.
◍ sky ⅞ 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 MAY.

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

1030mb 1025mb 1020mb 1015mb

Barometer scarcely changing

1010mb 1005mb 1000mb 995mb 990mb

Barometer falling generally

LOW

29·68in. 29·53in. 29·38in. 29·24in.

Bar. rising

HIGH

Issue No. 19,588

DAILY WEATHER REPORT.

Friday, 5th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	3rd AT 9 A.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. F.	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. 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	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Gorki	1021·9	46	-	0	b	1021·4	+1	45	+2	-	0	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Hangö	1019·9	34	-	0	c	1014·7	-6	37	0	ESE	3	*	r	*	-	*	32
Riga	1020·0	46	-	0	b	1014·4	-4	54	+9	S	3	*	0	*	?	*	43
Petrograd	1019·0	41	W	3	b	1022·6	0	41	+2	E	2	-	0	*	-	46	34
Moscow	1019·7	46	NW	2	b	1026·7	+3	45	-3	NNW	2	*	b	*	-	*	36
Kiev	1020·6	59	E	3	b	1023·4	+2	55	+3	E	2	*	b	*	-	*	46
Kharkov	1020·2	57	-	0	b	-	-	-	-	-	-	*	-	*	-	*	-
Kishinev	1019·1	63	SE	2	bc	1021·9	?	54	+2	SE	1	*	b	*	-	*	48
Elisabetgrad ...	1019·8	55	-	0	b	1021·5	+2	54	+2	SW	1	*	0	*	-	*	52
Nicolaiev	1020·2	55	SSW	2	bc	1021·1	*	54	-1	-	0	*	0	0	8	*	52
Odessa	1019·6	55	SSW	3	bc	1021·5	+2	54	-3	SW	1	*	0	0	-	*	54
Tarkhankout ...	1021·0	54	S	6	f	1021·3	?	52	+2	-	0	*	bc	0	?	*	50
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-

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	52	38	b	b	10·2
	Banff	-	48	33	bc.b	b.bc	9·5
	St. Andrews	*	*	*	*	*	*
	Carnoustie	-	56	45	b	bc.o.c.	8·8
Eng. N.E.	Harrogate	6	48	33	c.op	or	0·4
	Skegness	3	52	45	o.c	r.o	0·3
Eng. N.W.	Morecambe	3	54	33	bc.c	or	3·0
	Blackpool						
	Southport	5	52	33	c.o	or	0·7
Midlands.	Buxton						
	Leamington Spa	8	52	45	or	o.	0·0
	Malvern	13	48	44	r	rm.	0·0
	Ross-on-Wye	15	50	46	r	rm	0·0
Wales.	Rhyl	6	48	34	bc	or.	0·3
	Colwyn Bay	6	49	36	c	or.	1·3
	Llandudno	12	49	39	c	or.	1·0
	Aberystwyth	7	49	44	r.o	or	0·0
	Tenby	6	50	41	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	-	54	47	c.bc.c	c.	3·4
	Felixstowe	-	56	47	bc	bc	4·8
	Walton-on-Naze	-	56	46	bc.c	b.bc	4·2
	Southend-on-Sea	-	67	48	o	o.c.	3·0
England, S.E.	Margate	-	72	48	c.bc	c	6·1
	Ramsgate	-	66	48	bc	bc	6·9
	Hastings	-	69	46	o.bc.b	b.bc.	6·2
	Eastbourne	1	65	49	b.bc	b.bc.r.	6·0
	Seaford	Trace	70	44	or.b	c	5·7
	Brighton						
	Worthing	-	65	46	bc	bc.	5·7
	Littlehampton	-	66.	?	o.bc	bc.o.	4·4
	Bognor						
	Bournemouth ...	-	64	46	c	bc.c.	3·8
England. S.W.	Weymouth	2	60	46	od.bc	bc	2·6
	Torquay						
	Paignton	12	57	45	or	o	2·6
	Penzance	5	52	50	or	c.	0·0
	Newquay	*	52	38	or	o.	0·0
	Bude	4	57	49	omr	om.	0·5
	Ilfracombe	8	53	44	r	r.oy	0·0
	Weston-super-Mare ...	10	52	46	r	o.cm.	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.	Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 6 A.M. To-day.						
	%	%	Hr.	°F.	°F.	F.	mm.§			
Greenwich (Royal Obsy.) ...	69	70	2·5	70	53	43	-	c.o	o.c	o.o.d.o
City (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	69	74	2·5	70	46	50	0·2	bc	bc	ur.bc
Camden Sq. (Brit. Rainfall)	64	68	2·6	72	52	48	0·3	od.c	c	*
Hampstead (Reservoir) ...	*	81	3·0	68	49	37	-	bc	bc.c	bc.c.o
Richmond Park ...	*	*	2·3							
Kew. (See front page.)	*	*	1·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	69	76	2·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1147 Joules	21·3 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.	7	50	34	28	bcw	bcgw	or	0·2
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·1	71	49	45	o6m	o	cz.bc	*

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

5th 6th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·19 / 4·16	11·50 / 11·50	7·22 / 7·24
Greenwich	4·28 / 4·26	11·57 / 11·57	7·26 / 7·28
Wick	4·12 / 4·10	12·9 / 12·9	8·6 / 8·8
Valencia	8·6 / 8·5	12·38 / 12·38	8·9 / 8·10

NOTES ON YESTERDAY'S WEATHER.

Moderate measurements of sunshine were recorded in the south-east and also in the north of the country, but there was little elsewhere. Thunder was reported from Yarmouth in the night. Temperature rose yesterday to 72° at South Farnborough and 71° at Dover.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 127. 1 Saturday. 16th May.

	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
								‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1008·9	43	NE	4	bc	1005·2	-3	43	+2	NE	5	-	og	4	2	45	39	omp.bc	bc	bc.o	*
	Deerness (Orkney)	1008·1	44	N	5	o	1003·7	*	42	0	NNE	4	-	op	4	1	49	41	c	c.o	op	5·2
	Stornoway ...	1009·7	44	NE	5	bcq	1005·4	-4	41	-2	NE	5	-	odpq	5	0·3	50	39	c.bcq	bcq	bc.odpq	10·8
	Castlebay (Barra Isd.)	1007·2	44	NNE	5	cq	10040	-2	43	-2	NNE	5	-	op	5	0·1	49	40	bq.bcq	bcq	c.oq.op	12·1
	Glasgow ...	1003·9	40	NE	5	omr	9985	-1	38	-3	ENE	4	-	omr	*	22	42	36	omr	omr	omrsh	0·0
	Eskdalemuir ...	1002.3	38	NNE	7	or	9946	-1	38	0	NNE	7	-	o	*	21	40	36	od.or	or	or	0·0
	Malin Head ...	1002·4	46	NE	3	cm	998·8	-2	40	-5	NNE	8	NE	cmqr	7	12	49	39	cmq	cmp	cmqr	1·0
	Blacksod Point	1002.2	46	NE	6	cm	999.2	+1	41	-4	NE	8	NE	omr	6	7	52	39	bc	cm	cm.omr	*
	Valencia ...	996·8	48	NNE	5	oq	9948	0	42	-4	NNE	5	-	or	4	6	50	41	c.o	o.cz	o.d.r.or	0·5
	Roche's Point	995·6	45	NNE	3	r	990·2	*	42	-4	N	4	-	r	3	25	51	41	o	or	r	*
	Birr Castle ...	998·1	43	N	3	r	993·9	*	39	-3	N	3	-	r	*	44	47	38	o	or	or	0·0
	Donaghadee ...	1000·7	42	ENE	5	omr	996·5	+2	41	-3	NE	5	-	omr	4	7	45	40	ogm	omr	omrq	*
	Liverpool (Bidston)	995·6	46	NE	3	o	992·7	Q	44	-1	ENE	3	E	oe	3	5	52	43	o	or	od	0·0
	Holyhead ...	994·1	45	ENE	7	opm	990·5	-1	46	+1	E	6	N	opm	6	22	46	44	opm	opm	or opm	0·0
	Pembroke (St. Ann's)	991·1	54	NNE	3	or	9874	+1	48	0	SE	4	-	opd	3	6	56	47	or	or	op	0·0
	Scilly (St. Mary's)	986·0	50	N	4	fr	986·5	+1	47	-2	WSW	6	W	oq	5	16	51	46	fr	fr	omfr.o	0·0
	Falmouth ...	985·6	54	E	1	cz	988·3	+3	48	-3	SW	7	-	o	*	2	59	48	or.o	or.o	og.oq	0·0
	Jersey (St. Aubin)	989·2	57	SE	3	b	9942	*	54	-6	S	3	-	o	3	Trace	64	52	op.o	o.b	op.oc.o	0·7
	Portland Bill ...	989·5	52	SE	3	r	991·5	+1	51	-1	S	5	S	or	4	2	63	49	c.o	op	r.oc	*
	Dungeness ...	991·9	55	E	2	ou	996·5	+3	52	-4	SSW	4	SW	cu	4	1	66	49	bc.c.o	o.c.o	bc.bcp	*
	Dover	991·3	54	SW	1	o	996·2	+5	52	-14	SSW	4	S	bc	3	2	75	50	bc.c	or	op.e.bc	4·9
	Wick	1008·0	44	NNE	4	o	1003·7	-4	41	-1	NNE	4	NE	r	4	1	47	40	cm	c.ogqp	gq.smd	*
	Nairn	1007·4	45	ENE	3	ogq	1003·7	*	39	-4	ENE	5	-	orq	5	7	46	38	c.o	oq	ti pqr	0·0
	Aberdeen ...	1006·4	44	NNE	3	r	1001·2	-2	40	-4	N	4	-	otirh	3	16	47	40	o	opd	orith	0·0
	Leith	1004·9	43	ENE	5	r	998·9	-2	41	-2	NE	4	-	r	6	22	45	40	r	r	r	*
	Tynemouth ...	1001·6	42	NNE	4	oq.d	994·5	-4	42	0	NNW	5	-	omq.d	4	6	43	41	oq.d	oqd	omqrit	*
	Spurn Head ...	995·9	45	NE	6	f	993·0	+1	46	0	N	4	-	fe	4	1	48	45	om	f	f	0·0
	Yarmouth ...	993·2	53	NE	5	o	9942	+3	50	-3	SW	3	-	om	2	-	59	46	bc	bc.o	of	8·0
	Clacton-on-Sea	992·3	57	ENE	2	o	995·1	+3	56	-6	WSW	3	SW	bc	2	-	69	48	bc.c	c.og	og.cbc	5·4
	Nottingham ...	995·9	45	NE	5	r	994·0	*	45	0	NE	1	NE	dm	*	1	48	44	dm.o	om	od	0·0
	Benson (Oxon.) ...	993·0	52	NE	4	r	993·0	+2	53	+5	S	3	-	c	*	3	63	47	bcz	rr	o.c	*
	Sth Farnborough	991·6	61	NE	2	r	993·5	+1	54	-2	S	3	-	o	*	4	69	49	om	or.t.l.or	r.o.r.o	0·9
	London (Kew Obsy.)	992·5	59	NNE	3	or	994·4	+3	55	+1	S	2	S	o	*	3	70	48	om.o	o.or	or.o.ou	1·1
NORTHERN EUROPE.	Spitsbergen ...	1030·9	10	-	0	b	1032.4	+2	5	-2	SE	1	*	b	*	*	16	-6				
	Vardö	1014·0	30	N	1	s	1017·5	+2	32	+5	NNE	1	-	o	3	*	32	23				
	Bodö	1012·4	41	E	2	bc	1013.0	0	43	+7	E	4	-	b	2	-	43	34				
	Christiansund	1008·6	45	-	0	b	1006·6	0	45	0	-	0	-	o	2	-	46	39				
	Skudesnaes ...	1003·8	48	NNE	2	o	9960	-4	52	+7	NNE	4	-	c	1	1	52	43				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1001·3	52	ENE	1	b	?	-1	52	+2	E	3	-	bc	3	-	55	48				
	Blaavands Huk	997·3	72	BSE	2	o	993.2	0	61	+6	SE	3	-	o	2	-	72	54				
FRANCE, &c.	The Helder ...	991·0	61	NE	2	o	9944	+2	59	-2	S	5	-	4	2	-	70	52				
	C. Gris Nez ...	991·9	63	S	1	o	995·7	+3	55	-11	S	4	*	c	3	3	72	50				
	La Hève	989·3	63	SE	2	c	9946	*	64	-7	SSW	4	*	bc	2	1	73	52				
	Brest (St. Mathieu)	9893	52	W	4	o	993.0	+2	50	-2	W	1	*	m	3	5	54	50				
	Rochefort (Ile d'Aix)	995·0	61	SW	4	c	1000·8	+2	54	-1	S	5	*	r	*	10	61	52				
	Biarritz	996·6	66	SW	4	c	1004·6	+3	61	+2	SSW	5	*	b	2	-	70	57				
	Paris	993·5	59	SSE	2	c	1000·4	+3	57	-4	S	2	-	r	*	4	75	54				
	Belfort	1001·0	57	W	7	o	1007.3	*	54	-10	WSW	2	*	o	*	2	75	50				
	Lyons	1001·4	55	SSW	2	o	1006·9	*	55	-6	SSW	2	*	c	*	4	73	50				
	Nice	1007·8	54	SW	5	c	1012.3	+2	55	-2	S	2	*	c	3	15	72	50				
	Perpignan ...	1000·4	63	-	0	o	1005·0	+2	61	0	-	0	NE	o	*	1	72	50				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	993·2	59	SW	6	o	1006·4	+10	54	-5	SW	6	-	r	4	12	61	50				
	Madrid (8 a.m.)	1005·2	55	WSW	5	c	1015·0	+5	48	-4	WSW	2	-	c	*	13	57	48				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1009·9	*	NE	6	bc	1015·3	+2	55	0	NNE	5	*	bc	3	-	61	54				
	Madeira (Funchal)	1009·3	64	SW	4	o	1008·7	0	63	+6	SW	4	SW	r	4	2	64	57				
	Gibraltar	1014·5	61	W	4	b	1015·6	*	58	-3	W	2	*	m	0	-	67	54				
	Malta (8 a.m.) ...	*	*	*	*	*	1019.3	+4	66	-2	NW	1	-	b	1	-	75	61				
	Limassol (6 a.m.)	*	*	*	*	*	1012·0	+3	68	+7	SW	2	E	c	3	-	81	59				
	Alexandria (6 a.m.)	1015·9	68	WNW	2	b	10166	+3	70	-2	WNW	2	-	b	0	-	81	66				
	Cairo (Helwan) (6 a.m.	1014·3	81	N	3	b	1010·6	+2	66	-4	NW	1	-	b	*	-	90	61				
YESTERDAY'S REPORTS		4 h. ..., 8 P.M. G.M.T.					5 h. ..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1014·6	63	-	0	b	1010·7	0	63	+6	NE	2	*	o	2	-	*	*				
	Turin	1012·9	64	-	0	o	1006·6	0	57	-4	NW	6	*	r	*	8	*	*				
	Pesaro	1011·3	61	NE	2	b	1008·4	0	66	+7	E	2	*	o	4	-	-	-				
	Leghorn	1006·8	72	NE	4	c	1003·1	0	68	0	NE	4	*	o	4	-	*	*				
	Rome	1006·7	73	N	2	o	1005·2	+4	72	+9	S	2	*	o	*	-	84	61				
	Viesti	1014·9	59	SW	1	o	10096	0	63	+2	SE	4	*	c	5	-	*	*				
	Brindisi	1016·4	63	S	2	f	10134	0	61	+4	S	2	*	o	3	-	70	57				
	Cagliari	1003·1	73	SE	6	o	1006·0	0	64	-2	SW	4	*	o	4	1	75	50				
	Palermo	1002·8	82	S	7	f	1008·9	0	73	+5	SSW	4	*	f	5	-	-	-				
	Tripoli	10013	82	S	2	m	1008·6	0	79	+11	S	2	*	m	0	-	*	*				
	Algiers												*									

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

GALES.
Duration and Extreme Force in British Islands.

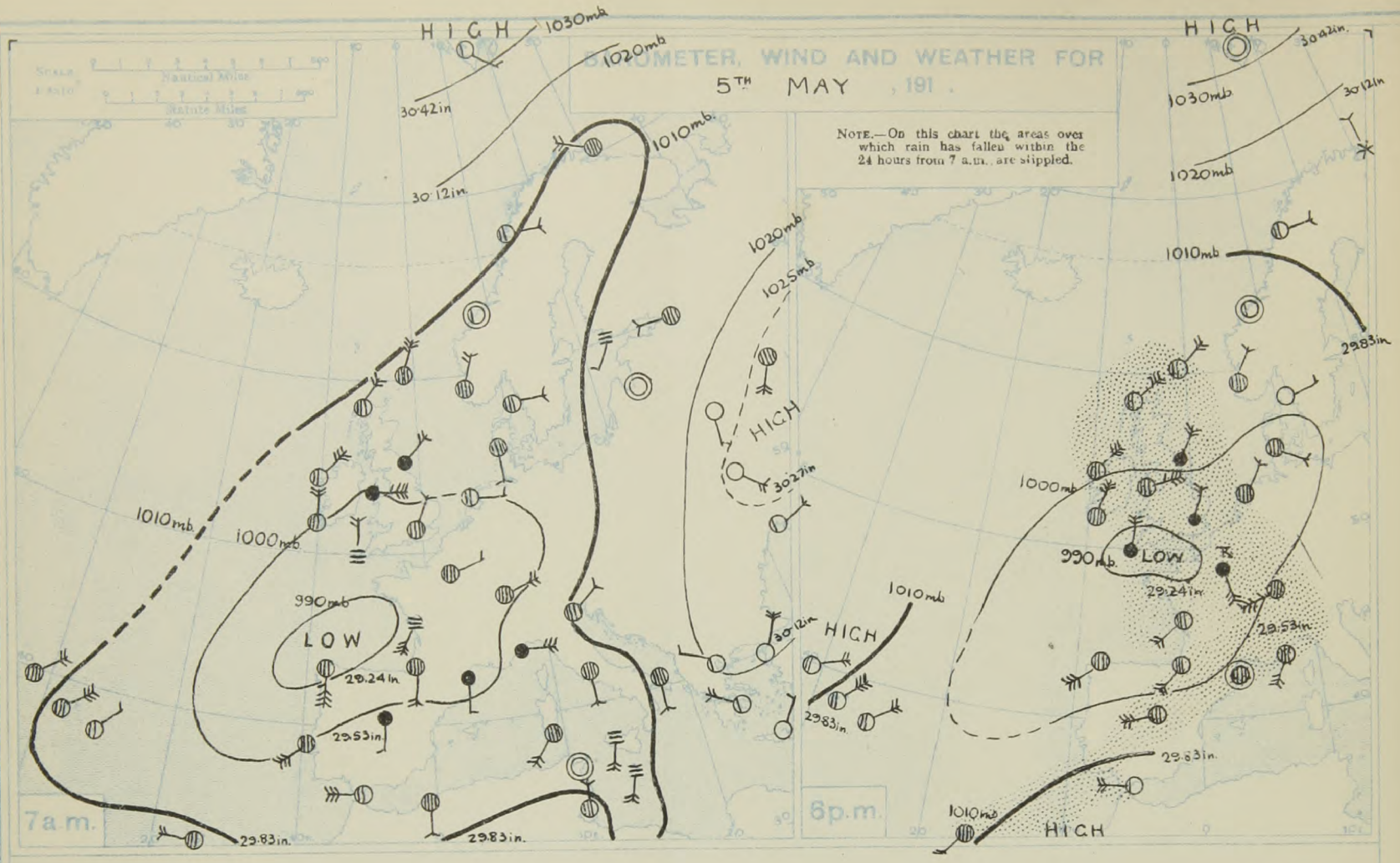
Eskdalemuir: 6 h.
3 a.m–7 a.m NNE .8.

Malin Head 5h–6h.
Late Evening–7 a.m NNE 8.

Blacksod Pt: 6h.
7 a.m. NE .8.

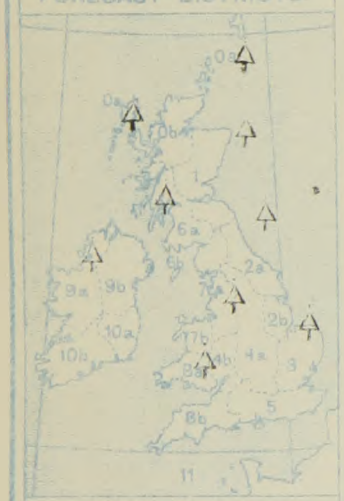
Holyhead: 5h.
11 p.m. ENE .8.

* 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.

Warnings Issued 7.15 pm., 5th.

Western Channel and Bay 11

0 a, b; 1 — Fresh or strong winds between North and North-East; dull, with rain or sleet; tendency to thunder-storms; cold.

2 a, b — Indefinite winds becoming fresh Southerly later; dull, unsettled; normal temperature.

3; 4 a, b; 5 — Fresh Southerly winds, dull, some showers; normal temperature.

6 a, b — Same as Nos. 0 to 2a.

7 a, b; 8 a, b — Fresh or strong winds between South-East and South-West; dull, some rain; normal temperature.

9 a, b; 10 a, b — Strong Northerly or North-Easterly winds; dull, some rain; rather cold.

11 — Strong South-Westerly winds; rough sea ; dull, some rain.

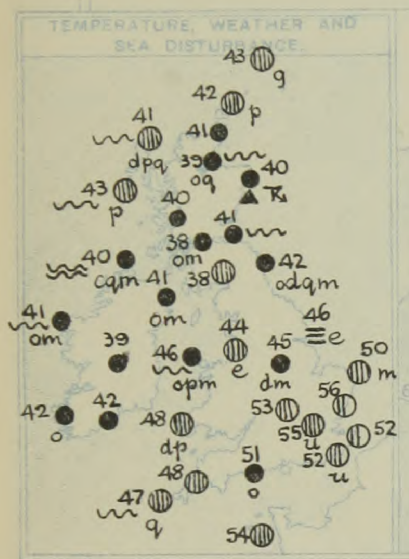
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 6TH MAY, 1916.

GENERAL INFERENCE.

A depression off our south-west coasts with a secondary over the southern North Sea will maintain an unsettled type of weather over the whole country.



EXPLANATION.

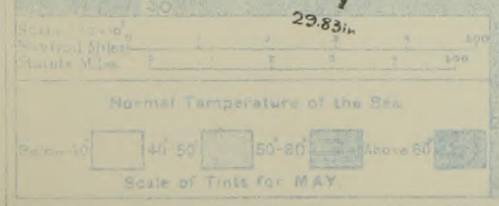
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈



HIGH
1030mb
1025mb
1020mb
1015mb
1010mb.
1005mb.
1000mb
995mb
990mb
30·42in
30·27in
30·12in
29·97in
29·83in
29·68in
29·53in
29·38in
Barometer falling
Barometer LOW rising
Bar. generally rising
Bar. rising rapidly
40°
50°
60°
HIGH
HIGH
1005mb
1010mb
1015mb
1010mb
1015mb
29·97in
29·83in

Issue No. 19884

DAILY WEATHER REPORT.

Saturday, 6th May. 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	4th at 9 A.M. Local Time. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	5th at 7 A.M. Local Time. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	-	-	-	-	-	-		-	-	-	-	*	-	-	-	*	-
Gorki	1022·1	55	-	0	b	1025·9	0	55	+10	S	1	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	-	1021·6	?	61	-	S	2	*	b	*	1	*	*
Hangö	1013·1	37	WSW	2	o	1015·8	+1	36	-1	-	0	*	f	*	M	*	34
Riga	1016·7	52	-	0	b	1017·0	+1	59	+5	-	0	*	b	*	3	*	48
Petrograd	1012·4	54	S	3	c	1017·2	+4	45	+4	W	2	-	o	*	-	54	39
Moscow	1024·2	54	S	2	b	1025·5	0	52	+7	SW	4	*	o	*	-	*	34
Kiev	1023·8	61	ENE	3	b	1026·0	+2	59	+4	SE	3	*	b	*	-	*	54
Kharkov	1024·8	57	NE	2	b	-	-	-	-	-	-	*	-	*	-	*	-
Kishinev	1017·7	57	SW	8	b	1024·8	?	52	-2	NW	2	*	b	*	1	*	48
Elisabetgrad ...	1022·9	61	ENE	2	b	?	?	57	+3	ENE	8	*	b	*	3	*	50
Nicolaiev	1024·2	63	-	o	b	1023·1	*	57	+3	NNE	2	*	bc	*	-	*	32
Odessa	1021·9	63	SSW	2	b	1023·4	+2	57	+3	ENE	2	*	b	o	-	*	54
Tarkhankout ...	1021·3	54	NNW	2	b	1022·1	?	52	o	SE	1	*	f	o	-	*	50
Soukhoum	1018·1	57	-	o	r	1019·0	+2	57	-	-	o	*	b	o	5	*	54

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	F.	F.			Hr.
Scotland.	Oban	3	50	38	o	o	1·2
	Banff	-	46	42	o.c	c.o	0·2
	St. Andrews	2	44	41	*	*	0·0
	Carnoushe	1	45	41	o.cp	r	0·0
Eng. N.E.	Harrogate	12	43	40	ot	op	0·0
	Skegness	1	50	45	cg	ogm	0·2
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	8	49	42	r	or	0·0
Midlands.	Buxton						
	Leamington Spa	11	52	46	o	or	0·0
	Malvern						
	Ross-on-Wye	3	54	45	cm	c.m.or	0·0
Wales.	Rhyl	8	48	43	p	p.o	0·0
	Colwyn Bay	11	47	44	cr	or	0·0
	Llandudno	29	48	44	r	r	0·0
	Aberystwyth	3	55	45	r.c.c	c.o	0·0
	Tenby	7	56	45	r	r	0·0
England, E.	Lowestoft	-	56	50	c.bc	bc.c.o	7·5
	Felixstowe	-	64	50	bc	bc.o	6·4
	Walton-on-Naze	Trace	63	51	b.bc	c.bc.cz	5·5
	Southend-on-Sea	-	70	55	c.o	o	3·5
England, S.E.	Margate	-	58	52	bc.c	c.o	3·6
	Ramsgate	-	64	57	bc	o	5·0
	Hastings	0·4	74	57	b.bc	bbc.op	5·1
	Eastbourne	1	64	53	bc.o	bc.or	2·2
	Seaford	Trace	76	53	b	c	4·0
	Brighton						
	Worthing	0·3	68	53	bc.o	o	1·1
	Littlehampton	Trace	64	57	o	o	0·3
	Bognor						
	Bournemouth	2	71	51	b.c	bc.c	0·4
England, S.W.	Weymouth	0·2	68	52	ac.bc	bc.c.o	0·5
	Torquay	1	62	51	c	o	0·3
	Paignton	-	61	49	bc	bc	0·4
	Penzance	5	56	50	or	or.c	0·0
	Newquay	1	64	48	op	op	0·0
	Bude	5	67	52	mp.r.om	mp.r.om	3·2
	Ilfracombe	1	56	44	op.o	op.o	0·0
	Weston-super-Mare ...	-	58	46	m.bc.c	cm	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 0 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	F.	mm.§			
Greenwich (Royal Obsy.) ...	62	83	1·5	75	48	48	2	c.o	o	oopo
City (Bunhill Row)	*	*	1·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	69	80	1·1	71	49	51	2	b.	b.	ore.od
Camden Sq. (Brit. Rainfall)	63	77	1·9	73	49	48	2	o.bc	c	*
Hampstead (Reservoir) ...	*	86	3·2	67	51	41	2	bc.	bc.c	oopo
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	1·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	74	83	0·6							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1255 Joules	23.3 Milliwatts.	64 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.	M	44	34	42	or.u	or.u	our	0·0
Manchester ,,	1	50	44	*	or.o	or.o	or.o	0·0
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	71	54	47	c.o.	op.o	o	*

NOTES ON YESTERDAY'S WEATHER.

44 mm. of rain fell at Birr Castle and up to 20 or 25 mm. at other stations in the north and west. Temperature rose to 75° at Dover. Sunshine measurements were large in the Hebrides, slight elsewhere.

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

6th/7th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.16 / 4.16	11.50 / 11.49	7.24 / 7.25
Greenwich	4.26 / 4.24	11.57 / 11.56	7.28 / 7.29
Wick	4.10 / 3.47	12.9 / 12.8	8.8 / 8.10
Valencia	5.05 / 5.3	12.38 / 12.37	8.10 / 8.11

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. 128

Sunday, 7th May

	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 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon	Weather. Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1000·3	38	NNE	6	om	997·9	0	43	0	NW	3	–	o	3	27	44	34	omrtl	omsp	op	
	Deerness (Orkney)	1000·3	40	NNE	6	opq	1000·3	*	41	-1	WNW	4	–	o	3	20	43	38	or	r.op	p.o	0·0
	Stornoway ...	1005·2	41	NE	6	opq	1004·8	0	40	-1	N	6	–	bcq	5	9	43	37	orq	or.opq	c.op.bcq	0·0
	Castlebay (Barra Isd.)	1003·6	41	NNE	5	odq	1005·5	0	40	-3	N	5	N	c	5	7	44	37	opr.dq	d.rq	dq.r.p.c	0·0
	Glasgow ...	999·5	39	ENE	2	omr	1001·3	+2	37	-1	ENE	2	–	omr	*	7	42	36	r.om	om.omr	mrsp	0·0
	Eskdalemuir ...	998·7	38	NNE	4	odc	999·3	0	35	-3	NE	6	–	or	*	13	39	34	odm	m.or.o	o.ov.or	0·0
	Malin Head ...	999·0	40	NNE	3	cmqr	1001·7	+1	39	-1	NNE	8	–	omqr	7	19	40	38	cmqr	cmqr	omqr	0·0
	Blacksod Point	1000·4	41	NE	8	omr	1004·9	+3	40	-1	NE	8	NE	cmp	6	12	44	38	omr	omr.	omr.cq	*
	Valencia ...	997·8	43	N	6	or	1002·7	+4	44	+2	N	5	N	op	4	12	44	40	r.gr	r.or	r.o.op	0·0
	Roche's Point	993·6	41	N	5	r	999·8	*	41	-1	N	5	–	o	4	10	43	40	r.o	r.or	r.or.o	*
	Birr Castle ...	995·8	40	N	2	r	999·4	*	39	0	NW	4	–	r	*	25	40	38	or	or	or	0·0
	Donaghadee ...	997·4	41	NE	4	omr	998·8	+1	39	-2	NE	5	NE	omrq	4	21	42	39	omrq	omr	omrq	*
	Liverpool (Bidston)	993·3	50	ENE	3	o	994·4	0	45	+1	ESE	3	E	og	3	7	53	44	o	op	or	0·1
	Holyhead ...	992·6	48	ENE	5	ofd	992·1	-2	45	-1	E	5	–	obr	4	8	48	44	opm	op.om	ope.or	0·0
	Pembroke (St. Ann's)	990·5	?	SSE	5	o	994·6	+3	46	-2	W	3	–	opd	2	3	49	45	c	op	ofr.op	0·0
	Scilly (St. Mary's)	993·0	45	W	6	oq	996·5	0	45	-2	W	4	W	ov	5	2	49	44	omp	omrq	om.ov	0·0
	Falmouth ...	993·7	45	SW	6	r	997·2	+1	46	-2	SSW	2	–	r	*	2	51	45	o.c.oq	opq.or	opq.c.	0·3
	Jersey (St. Aubin)	998·9	53	SW	3	o	1001·1	*	50	-4	SW	3	–	o	3	2	59	49	o.b.bc.	bc.or.o	o.b.op	2·4
	Portland Bill ...	995·7	49	SW	5	ocl.	998·7	+2	49	-2	SW	5	SW	c	4	2	51	48	or	c.odc.	o.cp	*
	Dungeness ...	998·5	55	WSW	3	bc	1002·7	+3	51	-1	SSW	5	SW	c	5	–	59	53	bc	bc	bc	*
	Dover	999·3	55	S	4	c	1003·5	+1	51	-1	S	5	S	o	5	0·2	59	49	bc.c	c.bc.c.	cp.c.o	5·1
	Wick	1001·1	40	NNE	4	r	1001·3	+2	40	-1	NNW	3	N	c	4	16	41	37	omr	omr	omrq.c	*
	Nairn	1001·8	41	NNE	6	oq	1002·7	*	39	0	NNE	1	–	cg	2	14	42	36	qr	rq.o.	qpu	0·0
	Aberdeen ...	998·3	40	N	4	odc	1001·5	+1	40	0	NNW	2	–	o	3	21	40	34	obqq	opd.	opdr	0·0
	Leith	999·4	41	NE	2	r	1000·7	0	40	-1	NE	2	–	r	5	6	43	38	rg.o	r	r.oe.r	*
	Tynemouth ...	997·3	42	NNW	4	ogq	997·5	0	42	0	NE	3	–	omqr	4	8	42	41	om.or	og.o.	oqr	*
	Spurn Head ...	997·5	45	E	4	or	999·0	0	49	+3	S	5	–	cq	5	4	54	43	om	or	or.c	0·0
	Yarmouth ...	997·9	57	SW	4	bc	1001·8	+2	51	+1	SSW	5	–	bc	5	Trace	64	50	bcp	bc	bc	5·0
	Clacton-on-Sea	998·5	57	S	3	bc	1002·7	+2	53	-3	SSE	4	S	bc	3	–	60	51	bc.c.bc	bc	bc.c.bc	7·2
	Nottingham ...	995·9	50	E	1	o	997·9	*	48	+3	S	3	S	o	*	8	52	45	od.r	r.o.cp	op.	0·1
	Benson (Oxon.) ...	996·0	53	SSW	4	o	999·7	+2	49	-4	SSW	5	–	o	*	0·14	60	47	c	o	o	*
	Sth Farnborough	997·1	54	SSW	5	r	1000·1	+2	52	-2	S	5	–	o	*	Trace	62	47	d.o	o	o	2·5
	London (Kew Obsy.)	997·4	59	SSW	5	ov	1001·4	+2	51	-4	SSW	4	–	opw	*	1	62	47	ov.or.p.od	od.c.ov	ov.o.o.vp	0·6
NORTHERN EUROPE.	Spitsbergen ...	1031·9	14	–	0	b	1031·7	0	10	+5	–	0	*	b	*	*	23	-8				
	Vardö	1022·6	30	NE	2	s	1027·0	+2	32	0	ESE	2	–	o	2	*	32	23				
	Bodö	1009·9	41	E	4	c	1006·0	0	50	+7	E	6	–	b	2	–	46	39				
	Christiansund	995·5	57	–	0	b	1001·1	+3	52	+7	WSW	1	–	b	2	–	67	45				
	Skudesnaes ..	996·2	50	E	3	bc	1003·1	+3	46	-6	ESE	6	–	m	5	–	61	45				
	Færder (Xiania Fjord)																					
	The Scaw (Skagen)	1000·6	57	–	0	c	1006·9	+2	54	+2	–	0	–	f	0	–	61	50				
	Blaavands Huk	1001·6	52	SSW	2	c	1006·4	+2	55	-6	S	2	–	o	1	1	63	48				
FRANCE, &c.	The Helder ...	1000·8	55	S	3	c	1005·0	+3	54	-5	S	4	–	c	3	–	70	50				
	C. Gris Nez ...	999·4	57	S	4	c	1004·0	+3	52	-3	S	5	*	c	3	Trace	63	50				
	La Hève	998·3	54	SW	5	c	1003·7	*	52	-2	S	4	*	r	2	1	61	50				
	Brest (St. Mathieu)	1000·2	52	W	6	o	1001·2	0	49	-1	SW	4	*	c	4	1	54	46				
	Rochefort (Ile d'Aix)	1007·7	55	WSW	5	c	1002·4	+3	51	-3	WNW	7	*	f	*	11	61	50				
	Biarritz	1008·6	59	NNE	3	o	1008·8	+7	54	-7	W	4	*	r	4	3	64	54				
	Paris														*							
	Belfort	1010·3	54	WSW	5	bc	1012·4	*	51	-3	ENE	4	*	c	*	1	60	46				
	Lyons	1010·3	57	SSW	2	c	1010·3	*	53	-2	–	0	*	o	*	13	63	48				
	Nice	1013·3	56	S	1	c	1015·9	+3	58	+3	S	2	*	c	3	–	66	48				
	Perpignan ...	1009·7	66	ENE	1	b	1007·1	0	59	-2	–	0	–	o	*	–	77	55				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1012·8	54	SSW	5	o	1012·0	+7	48	-6	SSW	4	–	o	4	12	61	46				
	Madrid (8 a.m.)	1012·6	54	SW	1	r	1013·5	+5	48	0	WSW	3	W	r	*	11	57	48				
	Lisbon (7 a.m.)	1007·9	55	W	4	o	1015·8	+4	54		NW	2	–	b	6	4	59	50				
	Azores (Horta, 8 a.m.)	1019·0	*	NE	5	c	1024·6	+3	55	0	NNE	4	*	bc	3	–	61	55				
	Madeira (Funchal)	1011·7	67	SW	4	o	1015·7	+1	63	0	SW	3	–	r	3	4	68	63				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1018·7	0	70	+4	SW	1	–	b	1	–	72	63				
	Limassol (6 a.m.)	*	*	*	*	*	1012·7	+1	73	+5	W	1	–	b	0	–	81	54				
	Alexandria (6 a.m.)	1016·8	68	–	0	b	1015·1	0	72	+2	–	0	–	b	0	–	79	63				
	Cairo (Helwan) 6 a.m.	1015·0	79	N	3	b	1014·7	0	77	+11	–	0	–	b	0	–	90	63				
	YESTERDAY'S REPORTS	5th ....., 8 P.M. G.M.T.					....6th May.., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1006·4	63	–	0	c	1011·3	0	63	0	SSW	4	*	bc	3	Trace	*	*				
	Turin	1010·1	?	–	0	b	1011·6	0	55	-2	–	0	*	o	*	21	*	*				
	Pesaro	1007·4	66	SW	4	b	1013·5	0	64	-2	S	2	*	b	1	–	*	*				
	Leghorn	1010·2	63	–	0	bc	1012·6	0	61	-7	–	0	*	b	5	7	*	*				
	Rome	1012·3	63	S	2	b	1016·6	0	64	-8	S	2	*	c	*	Trace	*	*				
	Viesti	1008·9	70	SW	2	c	1014·0	0	68	+5	–	0	*	b	3	–	*	*				
	Brindisi	1011·1	61	SW	4	bc	1015·6	0	64	+3	–	0	*	b	2	–	*	*				
	Cagliari	1012·4	77	E	5	b	1016·7	0	66	+2	NW	4	*	b	3	–	*	*				
	Palermo	1015·6	64	S	2	b	1018·4	0	72	-1	SW	2	*	f	3	–	*	*				
	Tripoli	1014·7	72	–	0	b	1017·7	0	64	-15	–	0	*	b	1	–	*	*				
	Algiers	1015·7	64	NE	1	c	1014·0	+1	72	.	ESE	3	*	c	2	–	75	54				

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

GALES.
Duration and Extreme Force in British Islands.

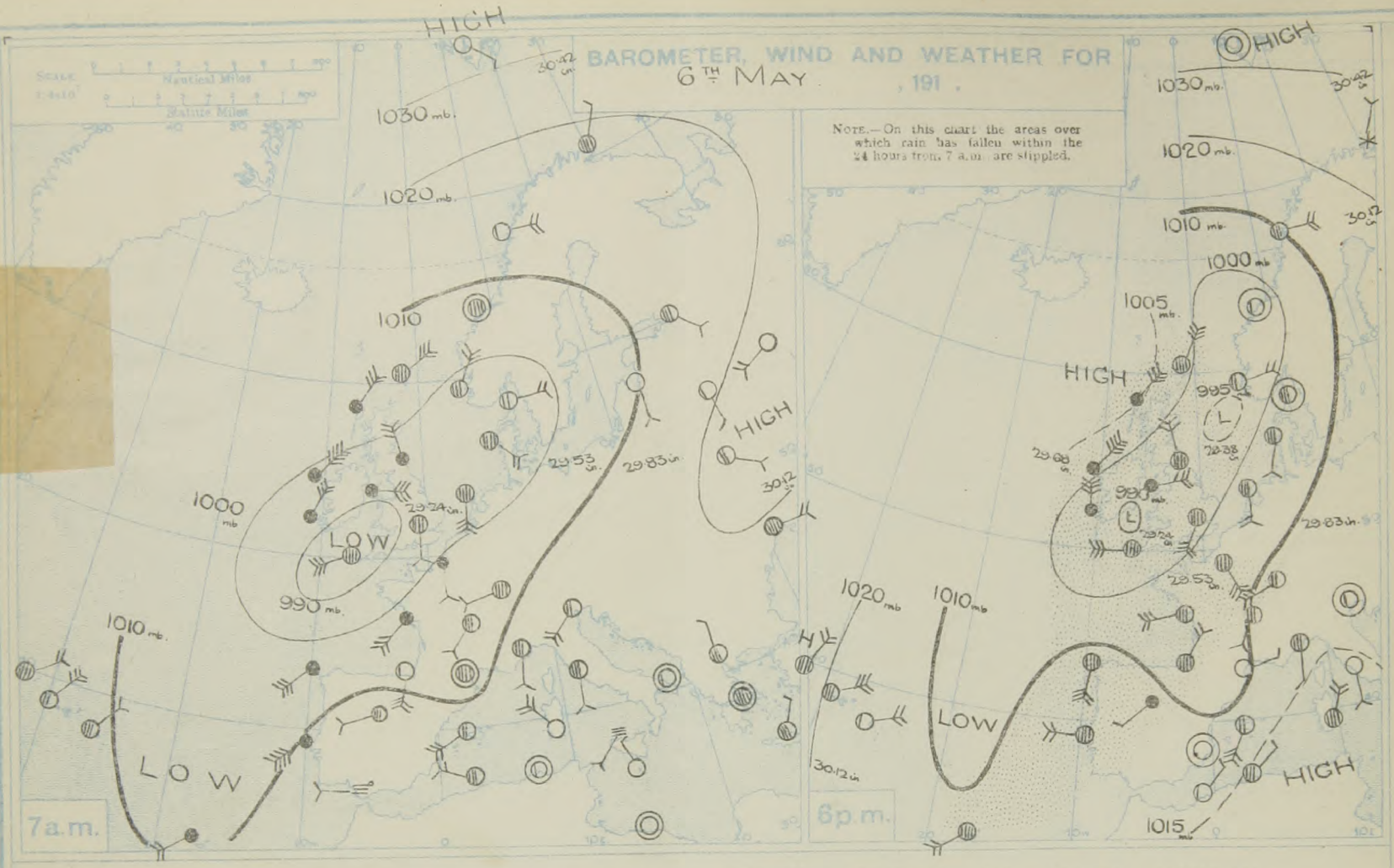
Eskdalemuir
6th 7a.m – 8a.m NNE 8

Malin Head
6th 7a.m – 7th 7a.m NNE 8

Blacksod Point.
6th 7a.m – 7th 7a.m NE 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 6TH MAY , 191 .



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 — Light or moderate winds between North-East and North-West; dull, some showers; remaining cold.

2 a, 2 b — Variable winds, becoming moderate Northerly or North-Westerly later; dull, some rain; cold.

3, 4 a, 4 b, 5 — Fresh Southerly winds, veering South-Westerly; dull, showery; temperature about normal.

6 a, 6 b — Fresh or strong Northerly winds; dull, some rain, fairer intervals; cold.

7 a, 7 b — Fresh or strong North-Easterly winds, backing North-Westerly later; dull, rainy, then improving; cold.

8 a, 8 b — Fresh Westerly or North-Westerly winds; dull, showery; rather cold.

9 a, 9 b, 10 a, 10 b — Fresh or strong Northerly winds; dull, some rain, improving; cold.

Western Channel and Bay 11 — Fresh Westerly winds, and a moderate or rather rough sea; dull, some showers.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 7TH MAY, 1916.

GENERAL INFERENCE.

The depression over Wales is likely to move slowly north-eastward. It will cause a continuance of unsettled weather for the present.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈

Nautical Miles
Statute Miles

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

Scale of Tints for MAY.

HIGH

LOW

Barometer rising

Bar. steady

Barometer generally

1030 mb. 30·42 in.
1025 mb.
1020 mb. 30·27 in.
1015 mb.
1010 mb. 30·12 in.
1005 mb. 29·97 in.
1000 mb. 29·83 in.
995 mb. 29·68 in.
29·53 in.
29·38 in.

Issue No. 19890.

DAILY WEATHER REPORT.

Sunday, 7th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	5th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	6th 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						1017·1	+2	34	-	WSW	1	*	0	-	-	*	30
Gorki						1022·0	+2	57	+2	S	1	*	b	*	-	*	*
Veliki Luki ...	1021·2	55	-	0	b	1019·7	0	59	-2	S	2	*	c	*	-	*	*
Hangö	1011·0	41	WSW	1	bc	1011·3	+1	45	+9	SW	2	*	bc	*	-	*	36
Riga	1013·9	64	-	0	b	1014·4	-1	64	+5	SSW	2	*	b	*	-	*	57
Petrograd ...	1013·1	50	ENE	3	o	1014·0	0	54	+9	SE	2	w	c	*	-	68	45
Moscow	1021·5	66	WSW	2	o	1021·4	0	61	+9	WSW	3	*	b	*	-	*	55
Kiev												*		*		*	
Kharkov	1024·8	54	SSE	1	r	1023·7	-1	55	-	SE	1	*	c	*	1	*	*
Kishinev												*		*		*	
Elisabetgrad ...												*		*		*	
Nicolaiev							*					*				*	
Odessa	1021·2	61	ESE	2	b	1019·3	0	55	+2	E	3	*	0	0	-	*	55
Tarkhankout ...	1019·1	58	NNW	4	0	1017·2	*	57	+5	E	2	*	0	0	-	*	57
Soukhoum												*				*	

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	46	39	r	o	0·0
	Banff	22	42	34	rl.r5.c	qp d	0·0
	St. Andrews						
	Carnoustie	25	41	36	or. cph	bcph	0·0
Eng. N.E.	Harrogate	3	43	40	op	op	0·0
	Skegness	2	58	44	og	d.r.o	1·5
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	3	52	43	or	o	0·0
Midlands.	Buxton						
	Leamington Spa	5	61	49	op.c	o.c	0·7
	Malvern						
	Ross-on-Wye	2	60	45	c. bcm	bc.c	0·8
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	7	53	44	r	r	0·0
	Aberystwyth	2	56	48	r.o.c	c.o	0·3
	Tenby	2	50	48	bc.c.o	o	0·0
England. E.	Lowestoft						
	Felixstowe	-	63	47	bc	bc	8·2
	Walton-on-Naze	1	59	47	bc cp.bc	bc	8·8
	Southend-on-Sea	-	64	49	ov.c	bc.cv	4·2
England, S.E.	Margate	1	65	51	c	bc.b	7·5
	Ramsgate	1	61	50	bc	bc	7·2
	Hastings	4	58	50	or.bc	bc.c	4·2
	Eastbourne	3	59	51	b.o	b.dc.o	5·0
	Seaford	3	63	50	c.o	bc	5·0
	Brighton						
	Worthing	3	60	50	c	c	2·6
	Littlehampton	6	56	?	bc.o	bc.o	2·6
	Bognor	4	57	50	bc	bc or	2·6
	Bournemouth	4	57	49	c	o	0·0
England, S.W.	Weymouth						
	Torquay	3	56	51	o	or	0·1
	Paignton	4	60	46	o	o	0·0
	Penzance	3	51	46	c.or	or	0·4
	Newquay	*					
	Bude						
	Ilfracombe						
	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 0 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	64	72	2·9	63	48	43	0·3	c	c	olp
City (Bunhill Row)	*	*	2·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	56	67	1·6	63	48	48	1	bc.o	bc	cr.u
Camden Sq. (Brit. Rainfall)	65	69	2·1	63	48	45	1	0	c	*
Hampstead (Reservoir) ...	*	70	?	58	49	37	1	c	bc	o
Richmond Park ...	*	*	1·0							
Kew. (See front page.)	*	*	0·6							

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

Vertical Component of Solar Radiation per square centimetre during Yesterday.

	Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.)	925 Joules	17·1 Milliwatts.	64 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 ,,	5	57	43	43	*	or	r.o	0·2
Oxford to 9 p.m.	*	58	46	46	or.o	o	op	*
Teignmouth to 8 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	61	49	50	od o	o	c	*

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

7th–8th May, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4·14 4·12	11·49 11·49	7·25 7·26
Greenwich	4·24 4·22	11·56 11·56	7·29 7·30
Wick	4·7 4·4	12·8 12·8	8·10 8·12
Valencia	5·3 5·1	12·37 12·37	8·11 8·12

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. Farnborough 1st 9h.20m		Benson 1st 12h.		S. Farnborough 1st 16h.35m		Eskdalemuir 2nd 18h.		S. Farnborough 4th 14h.33m		S. Farnborough 4th 16h.58m		S. Farnborough 5th 7h.23m	
Heights in Kilometres	2			-10	+3	-7	+3	+1	0	+3	+14	+8	+14	-1	+10
	1	-11	+1	-10	+1	-10	-1	-1	+1	-2	+9	+3	+9	-8	+5
	0·5	-7	-1	-9	-6	-7	-2	-1	+1	-1	+7	-1	+8	-9	+1
	0	-1	-3	-5	-5	-3	-2	-1	+1	-2	+3	-2	+5	-1	-2

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

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§ 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. 129.

Monday, 8th May.

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1003·1	44	SSW	2	o	1002·1	-1	45	+2	ESE	2	-	or	2	6	48	40	c·o	op	omr	*
	Deerness (Orkney)	?	42	-	o	o	996·6	*	44	+3	N	3	-	r	2	13	46	41	o	or·o	or	1·5
	Stornoway ...	1002·8	44	NNE	5	orq	1002·4	-2	42	+2	NNE	6	-	cq	5	6	45	38	epq	cp.orq	o.cpq	2·8
	Castlebay (Barra Isd.)	1002·6	42	N	5	rq	1003·3	o	43	+3	N	4	-	epq	4	7	44	38	c.oq	orq	rq.epq	1·0
	Glasgow ...	1000·8	41	E	1	omr	998·8	-1	41	+4	W	2	-	o	*	6	42	37	r	md.r	md.omp	0·0
	Eskdalemuir ...	999·6	39	NE	4	od	998·9	+1	34	-1	NNE	2	-	ors	*	19	39	33	or	or.od	o.ors	0·0
	Malin Head ...	1002·5	42	NNE	6	cq	1001·5	o	40	+1	N	7	-	omrq	8	14	42	38	cqp	oqps	omrq	0·0
	Blacksod Point	1002·2	44	NNE	7	bc	1002·9	o	43	+3	N	3	N	bc	3	0·3	45	37	bcp	bcqhp	bc	*
	Valencia ...	1004·1	41	NNW	6	cpq	1004·9	-1	44	o	NW	1	NW	c	3	0·3	48	41	o.c	bc.dh	dc.c	8·5
	Roche's Point	1004·6	45	N	5	o	1010·5	*	42	+1	NNW	2	-	b	2	1	46	38	op.o	op.o	c.b	*
	Birr Castle ...	1003·8	40	NW	4	o	1008·7	*	41	+2	WNW	3	-	bc	*	5	43	36	or	epq	c.bc	o·o
	Donaghadee ...	999·4	41	NNE	5	omrq	1000·5	+3	41	+2	NNW	4	NW	cgm	3	5	41	39	*	omrq	omr.og	*
	Liverpool (Bidston)	995·6	50	SE	1	o	997·4	+1	42	-3	WSW	5	W	r	3	4	56	41	bc	c.o	or	2·0
	Holyhead ...	994·7	46	SW	4	bcg	1000·4	+3	43	-2	NW	7	N	omqp	6	4	50	41	or.o.cf	c.bc.	omqp	2·6
	Pembroke (St. Ann's)	998·1	41	NNW	5	or	1005·2	+3	42	-4	NW	6	N	cq	5	10	46	41	opd.or	or	cqp	o·o
	Scilly (St. Mary's)	1001·2	44	NW	8	oqr	1010·7	+5	45	o	NNW	6	NW	cq	6	3	48	40	omqp	omqp	cqp.c	0·2
	Falmouth ...	999·2	43	NE	6	orq	1009·7	+4	42	-4	WNW	5	-	bc	*	5	51	39	o.bc.c	c.orq	orq.bc	3·0
	Jersey (St. Aubin)	1000·8	49	WSW	4	op	1009·6	*	47	-3	W	5	W	b	3	6	58	43	o.b	b.op.b.p	oqp.b	4·3
	Portland Bill ...	998·9	48	SW	4	bc	1004·9	+5	44	-5	W	6	W	c	5	0·2	53	42	c.bc	bc.	bc.c.op	*
	Dungeness ...	1000·0	51	WSW	3	b	1003·3	+4	46	-5	W	4	-	oq	5	15	52	43	bc.or	r.bc	bc.orq	*
	Dover	1000·3	49	SW	4	b	1003·3	+5	45	-6	SW	6	SW	bc	6	3	53	43	op.r	opr.b	b.bcp.r	3·7
	Wick	1002·0	43	NE	1	o	997·0	-6	43	-7	NE	3	-	r	2	10	45	40	c	cp.omq	g.omr	*
	Nairn	1001·3	43	-	o	c	998·9	*	40	+1	-	o	-	or	1	9	46	38	pd.c	bc.c	cd	0·7
	Aberdeen ...	1000·8	41	NNW	3	o	996·5	-2	42	+2	WNW	3	-	r	3	16	43	40	or	op	or	0·0
	Leith	1000·0	42	NE	2	r	998·5	o	40	o	SW	1	-	o	3	7	43	40	r	r	r.od.o	*
	Tynemouth ...	998·8	44	NNE	3	omq	997·1	o	43	+1	N	2	-	om	3	4	44	41	omd	om	omr	*
	Spurn Head ...	999·0	49	S	1	or	998·7	o	47	-2	SSE	4	-	c	4	6	55	43	cq.o	or	or.bc.	1·8
	Yarmouth ...	998·1	50	NW	2	o	1000·7	o	48	-3	SW	5	-	c	4	3	56	46	c.omr	omr	cp	o·o
	Clacton-on-Sea	999·1	51	WNW	2	c	1000·8	o	49	-4	SSW	4	SW	c	3	12	55	47	bc.c.or	or.c	c.bc.c.	2·5
	Nottingham ...	997·2	52	SSE	2	c	998·8	*	44	-4	SW	2	SW	Om	*	2	57	43	o.c	op.c	cp	1·7
	Benson (Oxon.) ...	997·8	52	SSW	3	b	1000·8	+4	42	-7	WSW	5	-	o	*	1	56	41	or	v.bc	bc.o	*
	Sth Farnborough	998·4	53	SSW	3	bc	1001·8	+4	42	-10	SW	5	-	o	*	1	59	41	or	r.o.bc	bcp.bc.o	4·0
	London (Kew Obsy.)	998·6	57	SSW	3	b	1001·8	+4	45	-6	SW	4	-	o	*	3	58	44	ovp.or	or.c.b	b.bc.o	3·5
NORTHERN EUROPE.	Spitsbergen ...	1031·3	14	SSE	1	b	1032·8	o	10	o	SE	1	*	b	*	*	21	-6				
	Vardö	1025·7	30	ESE	4	s	1019·4	-2	36	+4	S	2	-	o	2	*	30	27				
	Bodö	1009·0	54	E	5	b	1014·9	+1	55	+5	E	4	-	bc	2	-	55	48				
	Christiansund	1008·4	48	-	o	o	1009·2	o	57	+5	-	o	-	b	3	-	55	48				
	Skudesnaes ..	1005·6	48	SE	4	o	1003·7	o	55	+9	E	6	-	b	3	-	52	46				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1009·0	50	ENE	1	f	1009·5	o	54	o	ENE	2	E	bc	2	-	56	48				
	Blaavands Huk	1007·5	57	SSE	1	b	1005·7	+2	54	-1	SSW	2	-	o	3	-	57	46				
FRANCE, &c.	The Helder ...	1001·6	61	E	4	c	1004·0	o	52	-2	S	4	S	bc	2	5	63	48				
	C. Gris Nez ...	1001·1	50	SSW	3	b	1003·1	+2	46	-6	WSW	6	*	c	6	7	59	45				
	La Hève	1002·1	48	W	3	r	1007·1	*	45	-7	WSW	6	*	o	5	11	59	43				
	Brest (St. Mathieu)	1003·8	46	WNW	6	o	1013·3	+3	48	-1	NW	6	*	c	4	2	54	45				
	Rochefort (Ile d'Aix)	1009·3	54	WSW	6	c	1016·4	+4	46	-5	WNW	6	*	r	*	3	61	46				
	Biarritz	1013·6	52	NNW	3	c	1018·9	+3	50	-4	WSW	5	*	c	4	6	59	48				
	Paris														*							
	Belfort	1007·3	62	-	o	r	1011·1	*	45	-6	W	6	*	r	*	14	70	43				
	Lyons	1009·3	47	NNW	5	r	1015·4	*	47	-6	NW	2	*	c	*	18	66	45				
	Nice	1013·9	54	-	o	r	1009·2	-3	54	-4	-	o	*	bc	2	6	64	50				
	Perpignan ...	1010·3	55	NNW	3	r	1016·4	+2	54	-5	NW	3	NW	b	*	3	82	46				
	Sanguinaire ...	*	63	SW	2	o	*	*	63		S	4	*	o	2	-	68	55				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1017·2	62	NW	4	c	1023·0	+2	50	+2	E	1	-	b	4	1	57	46				
	Madrid (8 a.m.)	1014·7	50	W	2	o	1021·0	+4	48	o	SE	1	-	b	*	2	59	41				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1026·6	*	NE	4	bc							*		*							
	Madeira (Funchal)	1012·8	63	E	4	r	1012·2	o	63	o	E	4	-	o	3	11	64	63				
	Gibraltar	1018·9	58	NW	4	b	1017·6	*	53		NW	3	*	b	2	1	64	52				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·5	o	72	+2	SSW	3	W	o	1	-	79	66				
	Limassol (6 a.m.)	*	*	*	*	*	1010·9	+1	70	-3	-	o	-	b	o	-	84	48				
	Alexandria (6 a.m.)	1013·2	68	WNW	2	b	1014·6	+1	68	-4	-	o	NW	bc	o	-	90	64				
	Cairo (Helwan) 6 a.m.	1011·9	86	N	2	b	1013·9	+1	66	-11	N	1	-	b	o	-	99	63				
	YESTERDAY'S REPORTS			...6th....., 8 P.M. G.M.T.							...7th. May....., 7 A.M. G.M.T.											
MEDITERRANEAN.	Venice	1011·9	64	-	o	b	1013·6	o	59	-4	WNW	2	*	c	4	8	*	*				
	Turin	1010·9	57	-	o	b	1014·7	o	55	o	-	o	*	o	*	Trace	*	*				
	Pesaro	1014·2	66	S	4	b	1016·9	o	63	-1	S	2	*	b	3	-	*	*				
	Leghorn	1015·7	64	-	o	b	1016·4	o	63	+2	-	o	*	b	3	Trace	*	*				
	Rome	1017·6	61	S	2	b	1017·2	o	63	-1	-	o	*	b	*	-	*	*				
	Viesti	1015·6	64	-	o	b	1015·3	o	68	o	-	o	*	b	1	-	*	*				
	Brindisi	1015·1	63	SW	2	b	1014·6	o	66	+2	-	o	*	b	1	-	*	*				
	Cagliari	1016·4	75	NNE	4	o	1014·9	o	57	o	NW	5	*	b	4	-	*	*				
	Palermo	1018·9	61	-	o	b	1016·6	o	77	+5	WNW	4	*	f	4	-	*	*				
	Tripoli	1018·4	66	-	o	b	1017·3	o	73	+9	-	o	*	b	2	-	*	*				
	Algiers	1015·7	64	NE	1	c	1014·0	+1	72	o	ESE	3	*	c	2	-	75	54				

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

GALES.
Duration and Extreme Force in British Islands.

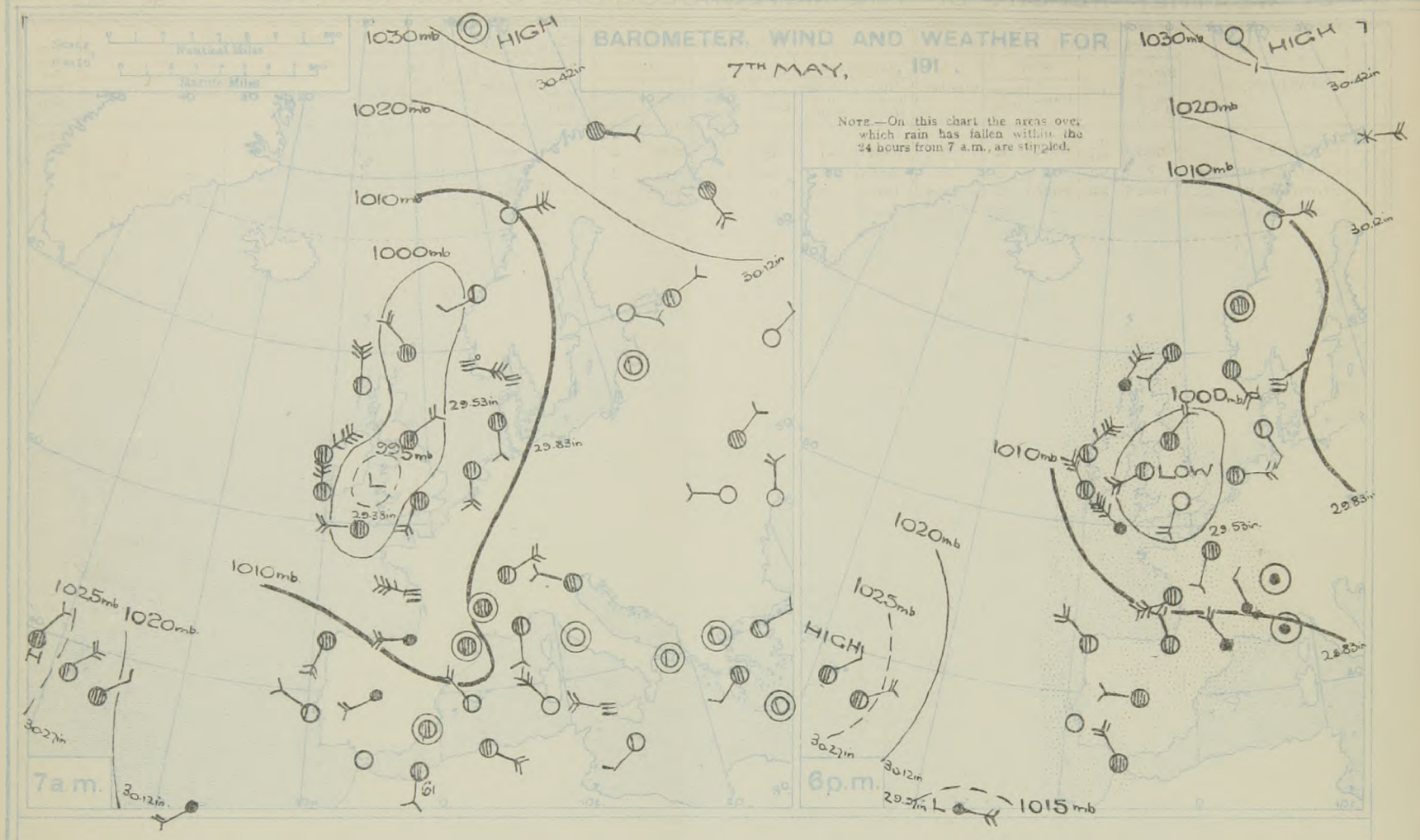
Malin Head
7th 7a.m. - Noon NNE 8

Blacksod Point
7th 7a.m - 3p.m NE 8

Holyhead
8th 1a.m N 8

Scilly
7th 4pm - 8th 2a.m NW 8
Ex. Squalls NW 9.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

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 indefinite winds, becoming Westerly later; dull, rainy; cold.
2 a, b	Moderate or fresh Westerly winds, then backing and moderating; occasional rain, fairer intervals; cold.
3 4 a, b 5	Fresh South-Westerly or Westerly winds, backing and moderating later; dull, showery, improving temporarily; cold, becoming milder.
6 a, b	Moderate Northerly winds, backing; dull, showery; cold, becoming milder.
7 a, b 8 a, b	Strong winds, between West and North-West, moderating quickly and backing South-West; unsettled, some rain, fair intervals; cold, then milder.
9 a, b 10 a, b	Moderate winds, backing Southerly; fair, then some rain; milder.
Western Channel and Bay 11	Fresh Westerly winds, backing South-West; rather rough sea; occasional rain; fair intervals.

FURTHER OUTLOOK

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 8TH MAY, 1916.

GENERAL INFERENCE.

The depression over the north-east coast will move slowly northward. There are indications of the approach of a fresh disturbance to the west of Ireland.

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 MAY.

HIGH
1030mb
1025mb
1020mb
1015mb
1010mb
1005mb
1000mb
1005mb
1010mb
1015mb
1020mb
1020mb
1015mb
1010mb
30·42in
30·27in
30·12in
29·97in
29·83in
29·68in
29·53in
29·83in
29·97in
30·12in
29·97in
50°
50°
50°
Bar. falling
LOW
Barometer
rising
Generally
LOW
HIGH
LOW

Issue No. 19891

DAILY WEATHER REPORT.

Monday, 8th May, 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.	7th 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						1024.4	+2	34	0	S	1	*	0	*		*	27
Gorki						1015.3	–	57	0	S	1	*	c	*	–	*	*
Veliki Luki ...						1017.0	–	61	+2	–	0	*	bc	*	–	*	*
Hangö						1013.9	+1	37	-8	ESE	2	*	b	*	–	*	39
Riga						1015.5	+1	64	0	–	0	*	b	*	–	*	55
Petrograd	1015.1	57	ENE	3	b	1016.7	+1	52		ENE	2	NNE	bc	*	–	75	45
Moscow	1017.5	63	W	1	b	1017.2	0	61		ENE	1	*	b	*	–	*	32
Kiev	1015.2	59	E	2	bc	1014.1	0	54		NE	2	*	0	*	–	*	52
Kharkov	1019.0	55	E	2	r	1013.1	+2	52	-2	NE	2	*	0	*	3	*	50
Kishinev	1016.0	57	NE	1	b	1014.1	–1	52		NW	2	*	b	*	–	*	46
Elisabetgrad ...	1015.4	57	SSE	1	0	1013.0	-2	55		NE	2	*	0	*	–	*	46
Nicolaiev	1015.7	55	–	0	c	1011.9	*	54		N	2	*	c	0	5	*	54
Odessa	1015.0	55	ENE	2	0	1013.0	0	56	+1	NNE	3	*	bc	1	–	*	54
Tarkhankout ...	1014.3	55	N	1	b	1013.3	*	55	-2	NNE	4	*	0	0	3	*	54
Soukhoum	1014.3	61	NW	1	0	1015.0	–	59		SW	1	*	0	*	–	*	*

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	5	46	37	op	op	0·0
	Banff	12	43	38	or	op.r.o.	0·0
	St. Andrews				*	*	
	Carnoustie	8	44	40	r	og	0·0
Eng. N.E.	Harrogate	10	53	44	o	op.o	0·0
	Skegness	10	57	47	ogw	r.or	0·6
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	6	53	43	r.o	o.c.o.	0·1
Midlands.	Buxton						
	Leamington Spa	2	56	46	c.bc	c.bc	1·2
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	7	56	44	p	p	2·6
	Colwyn Bay	5	54	44	bc	bc	2·2
	Llandudno	5	53	45	c	c.b.	2·3
	Aberystwyth	3	48	42	r.o.c	c.o	1·0
	Tenby						
England. E.	Lowestoft						
	Felixstowe	12	54	50	bc.o	or.bc	1·2
	Walton-on-Naze	13	54	50	bc,c,or	r,c,bc	2·0
	Southend-on-Sea	4	58	49	or	or,c,bc,b	2·8
England, S.E.	Margate						
	Ramsgate	2	54	50	r	r.c	1·0
	Hastings	6	53	47	bc.or	or.bc.b	2·6
	Eastbourne	8	54	49	or	o.b.	3·1
	Seaford						
	Brighton						
	Worthing	5	55	50	r	bc	3·3
	Littlehampton	4	54	?	r	bcp	3·6
	Bognor						
	Bournemouth	1	55	47	p	bc.c	3·8
England. S.W.	Weymouth						
	Torquay	1	53	47	c	c	1·8
	Paignton	1	55	44	–	o.p,c	6·2
	Penzance						
	Newquay	1	51	44	o	c.or	0·2
	Bude						
	Ilfracombe						
	Weston-super-Mare ...	2	57	45	b.bc.b	b.bc.c.	7·0

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 0 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	84	76	4·0	58	42	37	3	ogr	bc	bc,c
City (Bunhill Row)	*	*	3·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	78	83		56	43	47	4	ur	r,bc	bc,ud
Camden Sq. (Brit. Rainfall)	–	81	2·8	57	43	41	4	–	–	*
Hampstead (Reservoir) ...	*	88	?	48	39	33	4	b	od	od
Richmond Park ...	*	*	3·8	Vertical Component of Solar Radiation per square centimetre during Yesterday.						
Kew. (See front page.)	*	*	3·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	–	85	2·5	868 Joules		16·0 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.)	4	60	48	46	c,o,p,d,o	o,or	or,o,bc	*

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

8th & 9th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.12 4.10	11.49 11.49	7.26 7.28
Greenwich	4.23 4.21	11.56 11.56	7.30 7.31
Wick	4.4 4.2	12.8 12.8	8.12 8.14
Valencia	5.1 5.0	12.37	8.12 8.14

NOTES ON YESTERDAY'S WEATHER.

Valencia measured 8·5 hours of sunshine, but generally the day was cloudy or dull, with a good deal of rain. Temperature rose to between 55° and 60° in the south-east, but remained below 50° in the north and west. At Eskdalemuir a minimum of 33° 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.

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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. 130

Tuesday, 9th May,

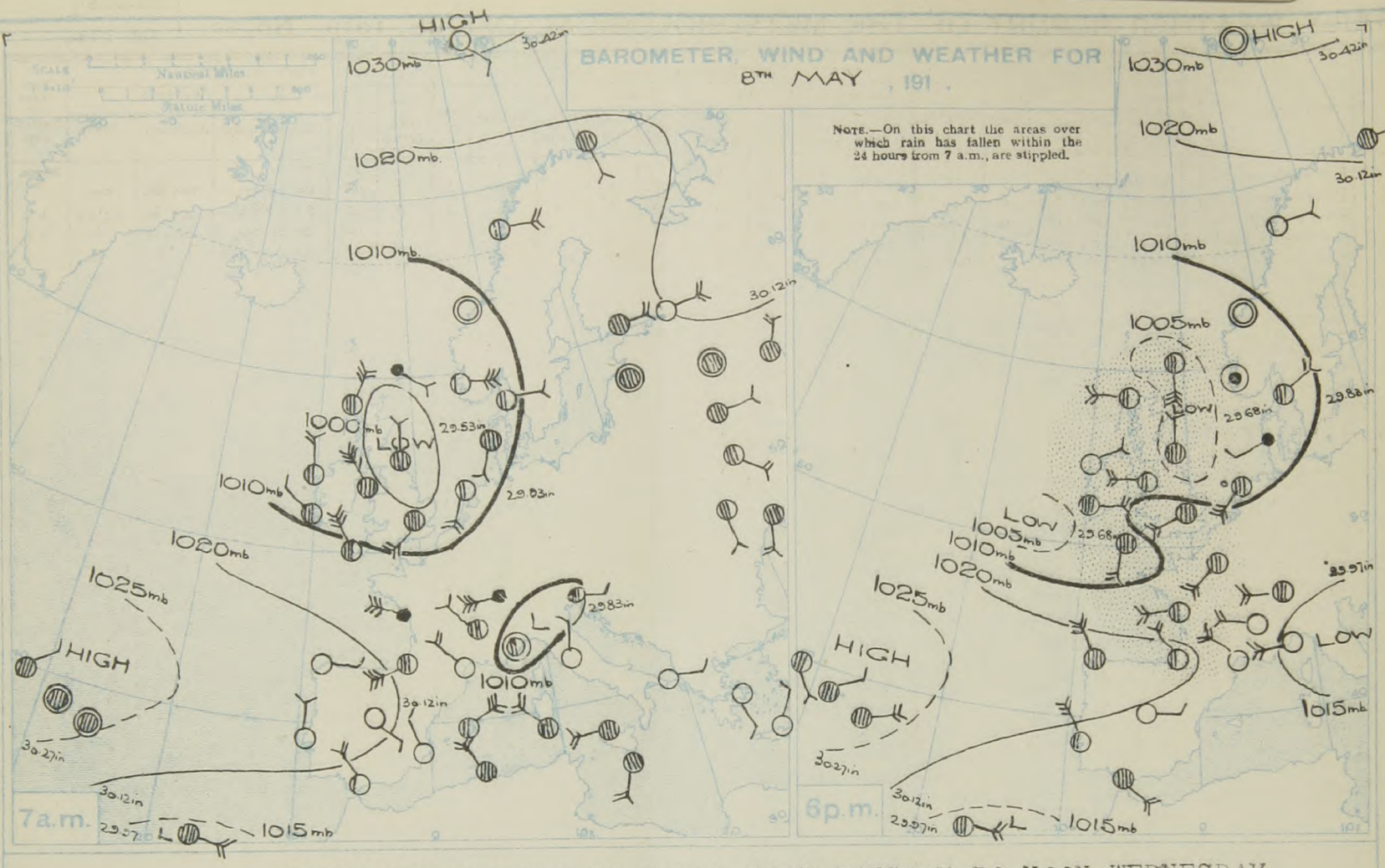
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, *
BRITISH ISLANDS.	Lerwick ...	1004·4	46	S	5	c	1008·8	0	42	-3	NNE	2	–	om	2	7	48	40	orm	om.bc	om	
	Deerness (Orkney)	1003·7	42	W	4	bc	1008·4	*	42	-2	N	3	–	o	3	5	47	37	rf.be	o.c.bc	bc.c.o	2·2
	Stornoway ...	1006·0	44	W	4	bc	1009·6	0	42	0	N	1	–	b	1	2	45	23	cpq	cpq.bc	b	3·7
	Castlebay (Barra Isd.)	1007·3	46	NW	3	b	1009·7	0	44	+1	N	1	–	b	2	–	48	37	opq.c	c.b	b	11·7
	Glasgow ...	1005·1	44	NW	1	orm	1008·1	0	41	0	E	1	–	c	*	11	48	28	op.c.ou	omp	r.op	0·4
	Eskdalemuir ...	1004·2	45	SW	1	cp	997·5	0	39	+5	NNE	4	3E	op	*	9	46	34	ors.od	o.c	c.or.op	0·4
	Malin Head ...	1007·3	46	N	3	bc	1009·0	+1	43	+3	NE	2	NE	bc	2	1	46	40	bcq.p	bc	bc	9·2
	Blacksod Point	1007·5	45	ENE	2	bc	1008·8	+1	39	-4	NNE	2	–	omr	2	5	51	39	bc	bc	cp.omr	*
	Valencia ...	1005·2	48	E	3	o	1008·8	+3	45	+1	NNW	3	N	cvp	3	1	52	43	e.o	op	o.e	3·7
	Roche's Point	1008·9	47	SSE	3	r	1007·5	*	43	+1	N	2	NE	b	3	5	51	42	bc.c	e.op	r.b	*
	Birr Castle ...	1007·1	49	S	1	c	1008·7	*	44	+3	E	1	–	c	*	–	53	40	b	bc.e	e	8·6
	Donaghadee ...	1006·8	49	N	4	bcp	1008·3	0	44	+3	NNW	3	N	c	2	0·4	48	40	cmq	bcp	bcm.bc	*
	Liverpool (Bidston)	1007·3	47	W	4	b	1007·3	-1	44	+2	SSE	1	–	bc	1	1	49	39	od	bc.b	bc	5·8
	Holyhead ...	1008·5	48	W	4	bc	1007·2	-1	44	+1	NE	4	–	omq	3	Trace	50	41	op.cp.c	c.bc	bc.b.o	6·6
	Pembroke (St. Ann's)	1010·7	46	WSW	4	bc	1000·8	0	42	0	E	4	–	or	3	9	48	41	cq.bq	bcq	or	3·4
	Scilly (St. Mary's)	1009·5	48	S	3	omp	1002·9	0	49	+4	W	4	W	oqp	4	6	52	44	c.bcw	cv.omp	omr.f.o	7·6
	Falmouth ...	1010·7	48	SSW	2	or	1002·7	0	50	+8	SW	2	–	od	*	8	53	42	bc	bc.b.o.c	or.omd	9·5
	Jersey (St. Aubin)	1011·6	49	W	3	og	1006·8	*	50	+3	S	4	–	or	4	5	52	46	b	b.o	op.or	10·3
	Portland Bill ...	1011·2	48	W	6	bc	1003·7	-4	49	+5	SSW	5	–	or	5	4	50	44	bcp	bc	c.or	*
	Dungeness ...	1010·2	46	WSW	6	orq	1009·1	-1	48	+2	SSW	3	–	r	3	3	51	44	crq	orq	o.b.or	*
	Dover	1010·0	45	SW	4	c	1009·6	-3	46	+1	SW	4	SW	r	4	2	49	41	bcp.c	cp.c	c.bc.or	5·0
	Wick	1004·7	43	NW	3	bc	1008·5	0	39	-4	NW	1	–	c	2	5	45	35	omr.p	o.bcp	bc.o.cm	*
	Nairn	1005·4	46	N	2	bc	1009·1	*	42	+2	–	0	–	bc	1	8	48	34	p.o	c.bc	bcp	3·1
	Aberdeen ...	1005·0	45	–	0	op	1007·5	0	43	+1	NNW	4	–	o	2	0·2	47	41	r.op	op.c	o.c.o	0·0
	Leith	1004·3	46	SW	1	o	1007·3	0	41	+1	NE	1	–	o	3	7	49	40	od.o	o	or.o	*
	Tynemouth ...	1003·7	43	N	2	og	1005·8	0	43	0	NNE	2	–	omd	3	1	44	42	f	f	omd	*
	Spurn Head ...	1004·2	49	W	4	om	1007·5	0	46	-1	W	4	–	bc	5	4	51	40	bc	bc.om	om	3·4
	Yarmouth ...	1006·7	44	SSW	4	r	1009·2	0	44	-4	SW	3	–	bc	3	2	50	38	c	c.od	omd.bc	5·1
	Clacton-on-Sea	1008·2	46	W	4	o	1009·5	-2	47	-2	SSW	3	S	o	2	3	49	39	c.o	ogr	ogr.c.o	0·2
	Nottingham ...	1006·1	43	WNW	4	o	1007·6	*	42	-2	SW	1	SW	c	*	–	48	34	o.c	o	o.c.b	0·2
	Benson (Oxon.) ...	1009·0	46	W	2	bc	1006·7	-5	43	+1	ESE	4	–	r	*	4	49	31	or	bc	b.or	*
	Sth Farnborough	1009·1	48	WSW	3	c	1006·9	-3	45	+3	ESE	2	–	orm	*	8	49	35	or	rq.o	c.b.or	0·7
	London (Kew Obsy.)	1009·6	48	WSW	4	o	1007·8	-5	46	+1	ESE	2	–	orm	*	4	49	37	o.or	or.o	o.b.orm	0·1
NORTHERN EUROPE.	Spitsbergen ...	1033·7	14	–	0	b	1036·8	+1	10	0	S	2	*	b	*	*	19	0				
	Vardö	1021·5	34	E	1	o	1027·5	+5	32	-4	E	3	–	o	3	*	36	28				
	Bodö	1016·2	57	E	2	b	1016·7	0	57	+2	SE	2	–	b	1	–	57	46				
	Christiansund	1009·9	66	–	0	b	1008·3	-3	57	0	SE	3	–	c	2	–	53	52				
	Skudesnaes ..	1008·7	48	–	0	r	1000·8	-3	52	-3	NNE	2	–	r	2	22	?	46				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1006·9	57	ENE	3	c	1003·1	-1	54	0	E	2	E	c	2	3	63	52				
	Blaavands Huk	1009·0	50	WSW	1	r	1006·6	-1	48	-6	SW	2	–	o	1	11	54	45				
FRANCE, &c.	The Helder ...	1008·3	50	SSW	5	c	1009·0	0	48	-4	WSW	5	–	c	3	Trace	52	46				
	C. Gris Nez ...	1010·0	47	WSW	7	c	1009·9	-2	45	-1	SSE	4	*	r	3	4	59	45				
	La Hève	1014·3	46	WSW	5	b	1011·5	*	48	+3	SSW	5	*	r	4	2	59	46				
	Brest (St. Mathieu)	1013·3	50	SW	5	o	1006·4	-1	51	+3	WSW	5	*	c	5	4	54	43				
	Rochefort (Ile d'Aix)	1018·9	52	W	4	bc	1015·7	-3	54	+8	SW	6	*	c	*	2	65	46				
	Biarritz	1021·2	56	NW	3	bc	1017·2	0	53	+3	ESE	1	*	b	2	3	55	45				
	Paris	1015·1	52	WSW	3	b	1015·1	0	48	.	S	3		bc	*	Trace	57	39				
	Belfort	1015·7	50	W	4	c	1014·9	*	45	0	W	2	*	bc	*	2	64	37				
	Lyons	1018·3	51	WNW	3	o	1018·9	*	46	-1	–	0	*	b	*	1	61	38				
	Nice	1008·7	62	W	4	b	1013·9	+4	59	+5	–	0	*	b	2	–	72	48				
	Perpignan ...	1017·9	59	NW	4	b	1014·0	0	57	+3	WNW	2	–	b	*	–	66	50				
	Sanguinaire ...	*	60	NW	4	bc	*	*	60	-3	SE	3	*	b	8	–	66	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1020·8	55	NNW	5	o	1017·1	-4	54	+4	SW	5	–	r	3	?	55	48				
	Madrid (8 a.m.)	1018·6	57	–	0	b	1018·3	+1	50	+2	–	0	–	b	*	–	61	39				
	Lisbon (7 a.m.)	1019·0	55	NNW	5	bc	1019·4	0	64	.	NNW	3	–	b	5	–	63	48				
	Azores (Horta, 8 a.m.)	1028·4	*	NE	1	o	1027·8	0	57	+1	–	0	*	o	1	–	61	54				
	Madeira (Funchal)	1015·0	66	E	4	c	1019·7	-2	59	-4	NE	3	*	c	3	–	68	59				
	Gibraltar	1017·3	60	SE	4	b	1016·2	*	60	+7	E	4	*	o	2	–	68	53				
	Malta (8 a.m.) ...	*	*	*	*	*	1012·7	0	68	-4	ESE	1	W	b	1	–	81	63				
	Limassol (6 a.m.)	*	*	*	*	*	1011·3	+1	70	0	ENE	2	E	bc	2	–	79	54				
	Alexandria (6 a.m.)	1014·1	68	–	0	b	1015·4	0	70	+2	–	0	NW	b	0	–	77	64				
	Cairo (Helwan) (6 a.m.)	1012·8	77	N	4	b	1014·1	+1	68	+2	NW	1	–	b	0	–	88	61				
YESTERDAY'S REPORTS		....7th...., 8 P.M. G.M.T.					8th May, ..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1009·2	0	64	+5	E	1	NW	c	3	–	70	59				
	Turin						1007·9	0	52	-3	–	0	–	r	*	15	64	52				
	Pesaro						1011·3	0	64	+1	S	1	SW	bc	2	–	72	55				
	Leghorn						1011·4	0	64	+1	S	1	S	c	5	Trace	72	53				
	Rome						1011·9	0	59	-4	N	1	–	o	*	–	73	54				
	Viesti						1012·2	-3	64	-4	SE	1	E	bc	3	–	73	59				
	Brindisi						1013·2	0	63	-3	SE	1	–	b	1	–	66	57				
	Cagliari						1011·3	0	57	0	NW	4	E	c	4	–	77	50				
	Palermo						1011·6	0	68	-8	W	4	W	o	2	–	86	55				
	Tripoli						1011·1	0	52	-21	S	1	–	m	3	–	90	52				
	Algiers	1013·7	68	W	3	c	1017·1	+2	63	-9	NNW	4	–	o	3	–	73	61				

RAINFALL.

Equivalents of Millimetres in Inches.

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

* 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 — Northerly winds, light or moderate; changeable, some rain; cold.

2 {a, b} 3 — South-Westerly to South-Easterly winds, light or moderate, finally South-Westerly to Westerly; rainy to showery; rather cold.

4 {a, b} — Wind light, variable; rainy to showery; cold.

5 — Southerly to Westerly or North-Westerly winds, light to fresh; rainy, then fairer; rather cold.

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

8 {a, b} — Wind West to North, light or moderate; showery; rather cold.

9 {a, b} 10 {a, b} — Wind Northerly, light or moderate; changeable, some showers, fair intervals; temperature rather low.

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

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 9TH MAY, 1916.

GENERAL INFERENCE.

The small depression over the Bristol Channel will move slowly Eastward or East-North-Eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MAY.

HIGH 1035mb 30·56in 1030mb 30·42in 1025mb 30·27in 1020mb 30·12in 1015mb 29·97in 1010mb 29·83in

40° 50°

Barometer falling 29·68in

Barometer 1005mb stationary

Barometer rising slightly 1010mb 1005mb

Barometer falling 29·97in

Bar. falling 29·83in

HIGH 1025mb 1020mb 1015mb 30·27in 30·12in

LOW 1015mb

Issue No. 19.892

DAILY WEATHER REPORT.

Tuesday, 9th May, 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	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.	x	.
Gorki	1013·2	55	E	1	o	1013·3	+4	57	o	E	2	x	o	x	3	x	x
Veliki Luki ...	.	.	.	.	.	1015·5	x	61	o	–	o	x	o	x	–	x	x
Hangö	1015·8	50	ESE	2	bc	1016·8	+1	57	+20	ESE	3	x	o	o	–	x	41
Riga	1013·2	66	–	o	o	1013·2	o	61	–3	–	o	x	o	x	–	x	59
Petrograd	1015·9	59	ENE	3	o	1020·0	+1	57	+5	E	4	E	b	x	–	79	48
Moscow	1016·2	66	ESE	2	b	1018·7	+2	57	–4	NE	3	x	o	x	–	x	55
Kiev	1011·0	55	SW	1	o	1011·8	+1	57	+3	SE	3	x	c	x	7	x	52
Kharkov	1014·7	55	SSE	2	b	1015·5	+1	54	+2	ENE	1	x	f	x	–	x	50
Kishinev	1011·7	61	NW	1	o	1017·4	+2	57	+5	S	2	x	c	x	1	x	9
Elisabetgrad ...	1011·9	52	–	o	b	1018·2	+2	48	–7	SSE	1	x	f	x	–	x	45
Nicolaiev	1011·4	59	SW	3	b	1013·2	x	57	+3	S	2	x	c	o	–	x	54
Odessa	1011·8	59	SW	3	b	1012·7	+1	59	+3	SSW	3	x	o	o	–	x	55
Tarkhankout ...	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.	x	.
Soukhoum	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.	x	.

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	o	c	1·8
	Banff	10	47	41	od	c. bc	0·3
	St. Andrews	4	49	39	r	r	0·0
	Carnoustie	4	49	42	r	ogp	0·2
Eng. N.E.	Harrogate	2	50	42	o. c. bc	c. o	1·0
	Skegness	1	49	45	og	ogr	0·5
Eng. N.W.	Morecambe	–	50	44	c	c. bc	2·0
	Blackpool						
	Southport	1	49	41	or. o	o. c. obc	3·7
Midlands.	Buxton	–	46	38	or	or	0·0
	Leamington Spa	1	51	41	o. cp	o. cp	0·7
	Malvern						
	Ross-on-Wye	2	52	40	c. op	c. bc	3·2
Wales.	Rhyl	7	48	40	r. b	bc	4·2
	Colwyn Bay	6	50	41	bc	bc. b	4·5
	Llandudno	5	50	41	cp. b	b	4·5
	Aberystwyth	6	49	40	r. oc	c. bc	3·5
	Tenby	5	51	39	bc	bc	6·3
England. E.	Lowestoft	0·1	51	44	o. c	c. op	1·4
	Felixstowe	2	48	44	bc o	or	1·0
	Walton-on-Naze	2	47	44	bc. e. or	or. c. or	0·4
	Southend-on-Sea	3	45	43	or	or	0·0
England, S.E.	Margate	1	50	44	c	op	1·9
	Ramsgate	9	50	44	op	cp	3·5
	Hastings	5	49	42	or. bc	c. or	3·8
	Eastbourne	5	50	44	bc. o	bcq r	4·7
	Seaford	4	50	43	c. or	r	2·2
	Brighton						
	Worthing	3	49	43	p	p	0·9
	Littlehampton	2	56	44	d. p	p. bc	0·5
	Bognor	4	50	43	bcr	bc	1·5
	Bournemouth	3	53	41	cr	bc. b	6·0
England, S.W.	Weymouth	0·4	54	42	c. b	b	9·0
	Torquay	0·3	53	40	c. b. bc. b	bc	10·4
	Paignton	1	54	38	c. bc	bc	11·0
	Penzance	1	53	41	bc	bc. c. or	8·0
	Newquay	x	51	41	b	b. bc	?
	Bude	14	53	41	o c	bc. b	7·4
	Ilfracombe	–	49	42	o. c. bc	bc. b	6·3
	Weston-super-Mare ...	2	55	41	bc. c. bc	b	6·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	89	94	0·0	51	35	28	5	o	or.	or. o or
City (Bunhill Row)	x	x	0·0	x	x	x	x	x	x	x
Westminster (St. James's Pk.)	93	93	0·0	50	37	36	7	r	r	od
Camden Sq. (Brit. Rainfall)	87	94	0·0	50	37	33	8	od. or	or	x
Hampstead (Reservoir) ...	x	97	?	46	36	30	7	c	omd	omr
Richmond Park ...	x	x	0·3							
Kew. (See front page.)	x	x	0·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	90	95	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
515 Joules	9·4 Milliwatts.	28 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.								x
Darwen to 9 p.m.	1	49	40	36	or. cu	cup. b	bc. ou	0·5
Manchester ,,				x				
Birmingham ,,								
Oxford to 9 p.m.	x							x
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	49	43	42	bcv. cp. o	or. od	o	x

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

9th & 10th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.10 4.8	11.49 11.49	7.28 7.30
Greenwich	4.21 4.19	11.56 11.56	7.31 7.33
Wick	4.2 4.0	12.8 12.8	8.14 8.16
Valencia	5.0 4.58	12.37 12.37	8.14 8.16

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° in many parts of these Islands, and fell to 31° at Benson during the night. Rain fell very generally, and as a whole there was little 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.

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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. 131.

Wednesday
10th May

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1006·3	46	NW	4	om	1007·5	+1	44	-1	NW	3	-	o	2	13	43	38	or	omr	op	*
	Deerness (Orkney)	1007·4	43	NW	4p	o	1009·8	*	44	+2	WNW	3	NW	bc	3	Trace	47	36	c	o	o.c.bc.	2·0
	Stornoway ...	1010·3	46	NE	3	c	1011·7	+2	41	-1	S	2	-	b	2	0·2	48	34	bc.c	cdp.	b	5·5
	Castlebay (Barra Isd.)	1010·4	45	NW	3	o	1012·2	0	43	-1	SW	2	SW	c	2	-	47	37	bc.b.	b.	bc	14·6
	Glasgow ...	1008·8	43	ENE	1	ou	1012·4	+3	40	-1	W	2	-	b	*	4	49	34	c.op	omp.	r.bz	0·3
	Eskdalemuir ...	1008·8	40	NW	1	or	1012·6	+3	42	+3	W	2	-	b	*	7	45	35	op.o.od	o.od	od.c.bc	0·0
	Malin Head ...	1010·3	45	NNW	3	bcv	1012·4	+2	41	-2	SW	3	NW	bc	3	-	47	40	b.bcv	bcv	bc	13·0
	Blacksod Point	1012·3	43	NNW	3	bc	1013·3	o	43	+4	WSW	2	-	bc	2	1	46	38	bc	bc.	bcp.bc	*
	Valencia ...	1011·4	49	WNW	3	c	1011·4	-1	45	o	SE	3	-	o	2	-	50	38	c.bcv	bc.bv	bc.c.o	10·0
	Roche's Point	1012·9	51	NW	3	bc	1016·6	*	44	+1	-	o	-	o	1	-	54	38	bc.c	bc	b.o	*
	Birr Castle ...	1010·6	48	NW	1	c	1015·2	*	39	-5	SW	1	-	c	*	4	53	35	cph	cph	c.	4·8
	Donaghadee ...	1009·5	47	N	4	b	1013·7	+2	42	-2	WSW	3	-	bcm	2	-	49	36	bcm	b.	bcm	*
	Liverpool (Bidston)	1007·9	43	WNW	2	r	1014·1	+3	45	+4	W	3	W	c	2	4	47	41	or	o	c.bc	0·0
	Holyhead ...	1009·4	48	N	3	b	1014·0	+3	46	+2	NE	2	NW	bc	1	1	51	41	op.c	c.bc.b	bcg.bc	6·7
	Pembroke (St. Ann's)	1011·1	46	?NW	3	b	1016·5	+2	46	+4	NW	3	NW	bc	2	1	49	40	or.cg	bc.	bc	7·0
	Scilly (St. Mary's)	1012·5	49	NNW	5	bc	1017·2	+1	48	-1	WNW	3	W	c	4	-	53	45	c.bc.c.	c.bc.	b.bc.	5·7
	Falmouth ...	1011·6	49	NNW	6	bq	1017·3	+3	47	-3	NW	1	NW	b	*	Trace	57	40	d.bc.o	bc.bq.	b	6·1
	Jersey (St. Aubin)	1008·2	54	WNW	3	b	1017·9	*	50	o	WNW	3	NW	b	3	5	56	44	or.d.or	or.bc.b.	b.o.b.	1·9
	Portland Bill ...	1006·6	49	NW	5	c	1016·2	+4	48	-1	W	4	W	bc	4	1	51	45	r.o	o.c.	c.bc.b	*
	Dungeness ...	1005·4	51	SSW	4	r	1014·7	+5	47	-1	WNW	2	NW	b	3	8	51	39	or	or	or.b.bc	*
	Dover	1006·1	50	SSW	5	r	1014·5	?	46	o	NW	5	W	b	3	11	49	38	or.d.	or.dm	od.bc.b.	0·0
	Wick	1008·0	44	NW	3	bc	1010·4	+2	42	+3	NW	3	-	bc	2	-	47	32	cmg	cmg.bc	bc	*
	Nairn	1008·6	45	NNE	2	og	1011·8	*	41	-1	W	1	-	bc	2	0·3	50	34	c.bc	bc.c	p.cd.c	6·4
	Aberdeen ...	1008·0	48	N	3	b	1011·6	+2	42	o	NW	3	-	b	2	-	50	35	o.c.o	c.bc.b	bc.b	5·8
	Leith	1007·7	40	E	1	o	1011·7	+1	41	o	WSW	1	W	c	2	1	48	40	o	od.o	ogp.c	*
	Tynemouth ...	1006·6	43	NNW	3	bc	1011·3	+5	43	o	WNW	1	-	bcm	2	-	45	41	cmd.	c.	bcm	*
	Spurn Head ...	1003·4	43	N	5	or	1011·7	+4	44	-2	NW	7	-	bcq	6	19	53	40	bc.or	or	or	3·1
	Yarmouth ...	1002·8	50	SW	5	r	1011·3	+5	43	-1	NW	3	-	o	3	4	50	41	bc.op	bmp.	o	5·0
	Clacton-on-Sea	1004·4	52	SSW	4	o	1013·9	+5	44	-3	WNW	4	-	b	3	4	52	40	ogr	ogr	og.c.bz	0·1
	Nottingham ...	1005·5	42	NW	3	r	1013·6	*	44	+2	W	1	W	bm	*	10	49	36	c.or	r	r.o.c	0·7
	Benson (Oxon.) ...	1006·2	43	NW	3	o	1015·7	+4	43	o	W	1	-	b	*	5	55	34	od.o	p.o.	bc.b	*
	Sth Farnborough	1005·4	48	WNW	4	o	1015·4	+4	44	-1	WNW	2	-	b	*	4	56	36	r.o	or.om	m.o.b.	0·1
	London (Kew Obsy.)	1005·4	50	NW	3	o	?1015·0	+5	43	-3	WSW	2	SW	b	*	5	55	40	omr.od.o	or.o	o.b	0·0
NORTHERN EUROPE.	Spitsbergen ...	1036·8	16	-	o	b	1036·2	0	18	+8	-	o	*	o	*	*	23	1				
	Vardö	1030·1	28	NE	3	o	1029·5	o	28	-4	NE	3	-	o	3	*	30	28				
	Bodö	1014·0	61	E	1	b	1013·1	o	54	-3	E	6	-	b	2	-	61	52				
	Christiansund	1005·5	61	-	o	c	1006·3	o	48	-9	SW	3	-	b	2	-	68	49				
	Skudesnaes ..	1006·0	45	NNE	1	r	1006·3	o	45	-7	N	1	-	o	2	6	46	43				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1007·0	46	WSW	1	o	1007·9	o	45	-9	SSW	1	-	c	1	6	55	43				
	Blaavands Huk	1009·1	48	WSW	4	o	1005·0	-3	48	o	S	3	-	r	3	2	50	45				
FRANCE, &c.	The Helder ...	1008·3	52	S	3	r	1005·9	+1	46	-2	WSW	7	-	o	4	4	54	46				
	C. Gris Nez ...	1006·0	50	S	6	r	1014·1	+5	44	-1	W	4	*	bc	3	6	52	43				
	La Hève	1006·4	50	SW	4	o	1015·9	*	48	o	W	4	*	c	2	-	55	43				
	Brest (St. Mathieu)	1012·3	48	NW	5	o	1021·5	+3	50	-1	WNW	3	*	c	3	-	56	43				
	Rochefort (Ile d'Aix)	1014·1	54	SW	6	o	1019·9	+4	61	-3	WNW	5	*	o	*	1	57	50				
	Biarritz	1017·6	57	SW	3	o	1021·3	+2	54	+1	SW	1	*	o	3	1	64	52				
	Paris														*							
	Belfort	1016·2	54	W	2	c	1018·6	*	46	+1	W	2	*	o	*	?	61	45				
	Lyons	1015·8	58	-	o	b	1018·4	*	53	+7	NE	1	*	c	*	-	63	47				
	Nice	1015·7	54	-	o	b	1015·0	o	62	+3	-	o	*	b	2	-	66	48				
	Perpignan ...	1017·1	61	-	o	b	1019·0	+3	61	+4	NW	3	-	b	*	-	68	52				
	Sanguinaire ...	*	64	NW	3	bc	*	*	62	+2	E	3	*	c	3	-	68	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1020·2	57	NNE	4	b	1022·9	+2	54	o	ENE	2	-	b	2	2	61	48				
	Madrid (8 a.m.)	1014·9	64	-	o	b	1018·9	+2	55	+5	-	o	-	b	*	-	66	48				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1027·7	*	-	o	bc	1026·6	o	57	o	-	o	*	o	o	-	66	55				
	Madeira (Funchal)	1020·4	63	NE	3	bc	1021·1	o	54	-5	NE	3	-	bc	3	-	64	54				
	Gibraltar	1018·3	60	SE	4	bc	1017·9	*	59	-1	SE	4	*	m	2	-	66	58				
	Malta (8 a.m.) ...	*	*	*	*	*	1008·8	+5	64	-4	W	4	-	o	3	-	75	63				
	Limassol (6 a.m.)	*	*	*	*	*	1013·9	+3	72	+2	S	1	-	bc	3	-	79	54				
	Alexandria (6 a.m.)	1013·9	68	-	o	b	1015·9	+2	70	o	-	o	-	b	o	-	79	66				
	Cairo (Helwan) (6 a.m.	1013·1	77	N	3	b	1015·4	+2	68	o	NNW	2	-	b	o	-	86	60				
	YESTERDAY'S REPORTS	....8 P.M., 8 P.M. G.M.T.					....9 P.M. May ...., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1012·3	+2	59	-5	-	o	*	bc	3	41	66	54				
	Turin						1013·9	+4	57	+5	-	o	*	b	*	2	66	50				
	Pesaro						1013·6	+5	61	-3	SW	1	*	b	1	-	77	54				
	Leghorn						1013·9	+2	59	-5	SW	2	*	b	5	2	72	59				
	Rome						1014·6	+2	61	+2	N	1	*	c	*	-	77	55				
	Viesti						1013·3	+5	68	+4	WNW	1	*	o	2	-	72	61				
	Brindisi						1013·5	o	66	+3	SSW	1	*	o	2	-	66	61				
	Cagliari						1016·7	o	57	o	NW	4	*	c	4	-	68	48				
	Palermo						1014·9	+1	64	-4	SE	*1	*	o	2	-	82	59				
	Tripoli						1007·9	+2	81	+29	ESE	1	*	c	2	-	100	79				
	Algiers	1017·9	61	N	1	b	1015·9	o	59	-4	E	8	*	o	7	-	66	59				

UPPER AIR.

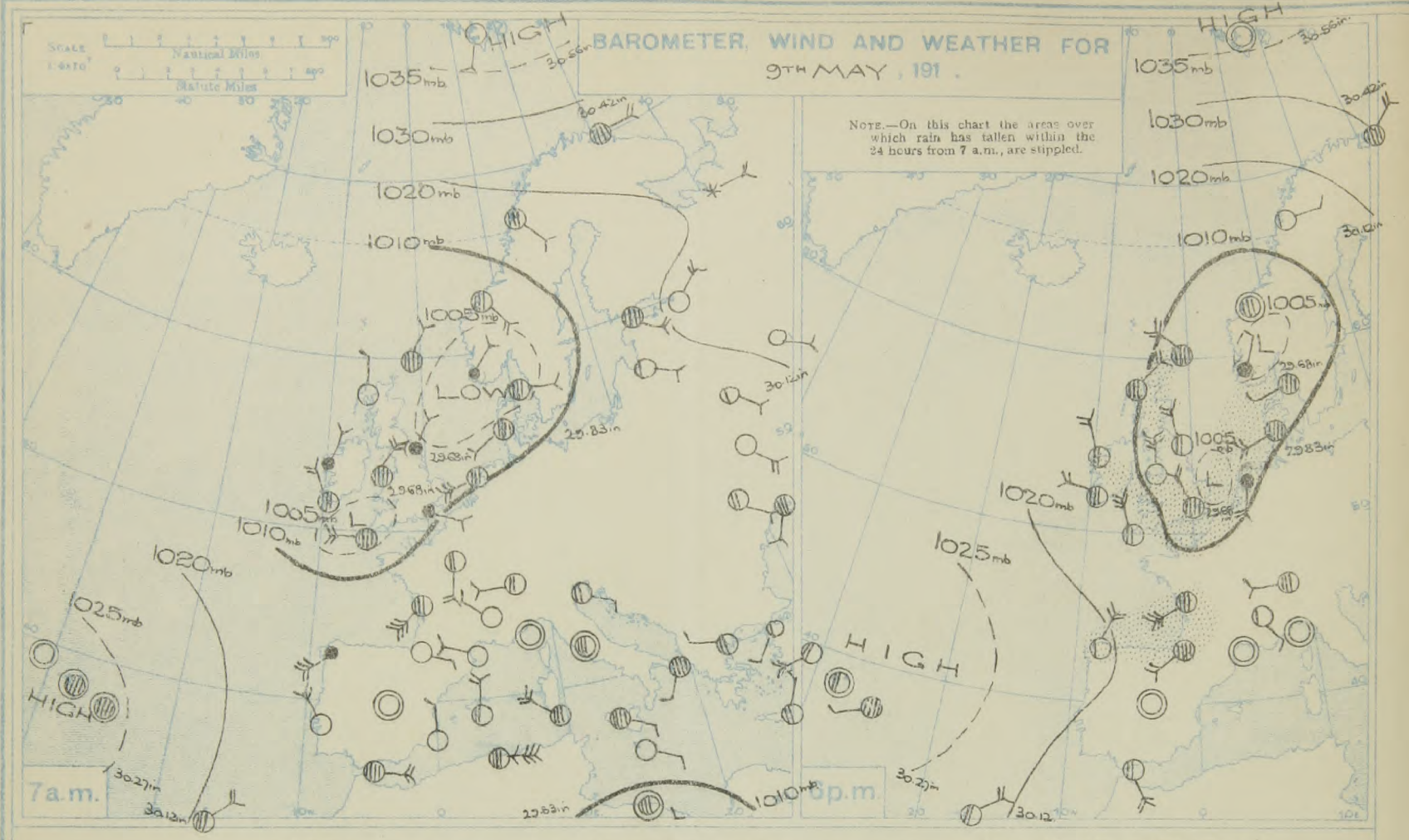
South Farnborough.
Pilot Balloon Ascent at 7 A.M. to-day

8,000 feet	W by N	26	miles per hour
7,000 "	W by N	25	" " "
6,000 "	W	21	" " "
5,000 "	WNW	17	" " "
4,000 "	NW by W	17	" " "
3,000 "	WNW	18	" " "
2,000 "	NW by W	18	" " "
1,000 "	NW by W	12	" " "
Surface	WNW	7	" " "

Aberdeen at 8 a.m. to-day.

8,000 feet	WNW	14	miles per hour
7,000 "	W by N	18	" " "
6,000 "	WNW	17	" " "
5,000 "	WNW	16	" " "
4,000 "	NW by W	17	" " "
3,000 "	NW	17	" " "
2,000 "	NW by N	14	" " "
1,000 "	NW	9	" " "
500 "	NW	7	" " "
Surface	NW	11	" " "

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b 1 2 a, b	North-Westerly to South-Westerly or Southerly winds, light or moderate; fair to-day, unsettled to-morrow; cool.
3 4 a, b 5	North-Westerly to Westerly and South-Westerly winds, light or moderate; fair to-day, becoming unsettled to-morrow; rather cool air.
6 a, b	Southerly and South-Westerly winds, light to fresh; fair to rainy; cool.
7 a, b 8 a, b	North-Westerly to South-Westerly or Southerly winds, light to fresh; fair, then showery or rainy; cool.
9 a, b 10 a, b	Same as No. 6.
Western Channel and Bay 11	North-Westerly to South-Westerly or Southerly winds, light or moderate; sea moderate; fair to showery.

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

FURTHER OUTLOOK.

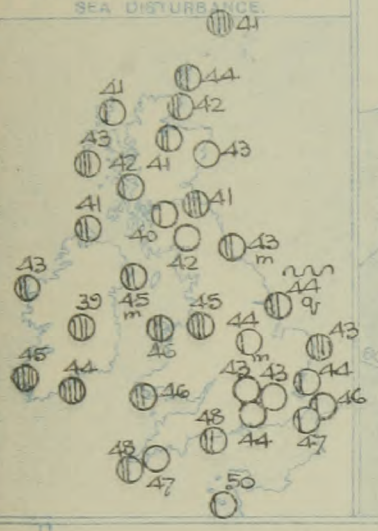
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 10TH MAY, 1916.

GENERAL INFERENCE.

The anticyclonic ridge will move eastward, and be followed by another depression 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 Miles: Nautical Miles 0 1 2 3 4 5 6 — Statute Miles 0 1 2 3 4 5 6 7

Normal Temperature of the Sea

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

Scale of Tints for MAY.

1035mb 30.56in 1030mb 30.42in 1025mb 30.27in 1020mb 30.12in 1015mb 29.97in 1010mb 29.83in

32° 40° 50° 50°

18 28 54 48 Barometer steady

1010mb 1005mb Barometer falling slightly 1015mb

LOW 48 Bar falling 29.68in 29.83in 29.97in

40° 50° 60°

Bar falling slightly 45 43 rising generally

1025mb 30.27in 30.12in 29.97in 29.83in 1015mb 1010mb

57 HIGH LOW

Issue No. 12,893

DAILY WEATHER REPORT.

10th MAY, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	8th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	9th 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	-	-	-	-	-	1020.4	-	28	-	E	3	*	S	-	2	*	25
Gorki	-	-	-	-	-	1015.9	+1	54	-3	SE	2	*	0	*	-	*	*
Veliki Luki ...	-	-	-	-	-	1017.7	-	59	-2	SE	2	*	0	*	-	*	*
Hangö	1016.3	57	ESE	4	c	1016.0	0	52	-5	ESE	3	*	0	-	-	*	48
Riga	1013.7	61	-	0	bc	1011.1	+1	63	+2	ESE	2	*	b	-	-	*	55
Petrograd	1020.7	63	E	2	b	1020.2	-2	54	-3	NNE	3	-	b	*	-	70	50
Moscow	1021.9	55	NE	3	bc	1021.2	0	52	-5	ESE	2	*	b	*	-	*	46
Kiev	1027.0	60	SE	2	bc	1015.1	0	57	0	SSE	3	*	b	*	-	*	52
Kharkov	1016.6	59	SE	2	bc	1017.9	+1	57	+3	?	?	*	0	*	-	*	52
Kishinev	1013.5	61	SE	3	bc	1015.9	+2	55	-2	SE	2	*	0	*	-	*	-
Elisabetgrad ...	1014.7	59	WSW	1	b	-	-	-	-	-	-	*	-	*	-	*	-
Nicolaiev	1012.2	59	SW	3	b	1017.2	*	54	-3	-	0	*	b	0	-	*	54
Odessa	1015.4	57	SSW	3	b	1016.6	+2	59	0	SSW	2	*	c	0	-	*	-
Tarkhankout ...	1016.3	55	S	1	b	1017.5	-	59	-	-	0	*	b	0	-	*	0
Soukhoum	1012.4	64	-	0	b	1014.0	-	61	-	-	0	*	0	*	-	*	*

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	-	51	33	b	bc	12.0
	Banff	-	47	42	c.bc	bc	2.1
	St. Andrews						
	Carnoustie	1	49	43	org	o	0.0
Eng. N.E.	Harrogate	12	50	37	b.bc.c	or	4.6
	Skegness	12	49	36	bc or	or og	4.4
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	6	48	33	bc o	r.o	1.7
Midlands.	Buxton						
	Leamington Spa	9	47	35	or	or	0.0
	Malvern	12	43	37	r	r.c.bc	0.5
	Ross-on-Wye	9	52	35	or	orv.c	0.3
Wales.	Rhyl	4	46	35			1.2
	Colwyn Bay	5	48	37	or.or	p.o.c.bc	2.0
	Llandudno	3	47	38	cr.c	c	1.6
	Aberystwyth	7	47	38	r.o.c	c.bc	3.3
	Tenby	10	52	39	bc	b	5.5

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England. E.	Lowestoft	3	53	38	c.ob	or	3.8
	Felixstowe	5	51	39	bc.ob	or	1.3
	Walton-on-Naze	2	51	38	od.o.cd	od.c.or	0.6
	Southend-on-Sea	4	53	41	or	ob	0.1
England, S.E.	Margate	3	52	40	r	r	0.0
	Ramsgate	4	49	37	r	r	0.0
	Hastings	5	51	42	b or	or	0.0
	Eastbourne	10	52	46	omg	or.w	0.0
	Seaford	8	51	45	r	r	0.1
	Brighton	8	51	45	or	r.o	0.0
	Worthing	7	52	44	r	r.o	0.0
	Littlehampton	9	52	47	r	r.o	0.0
	Bognor	8	52	45	or	bc	0.2
	Bournemouth	7	56	44	cr	bc	0.8
England, S.W.	Weymouth	6	54	46	c.bc	bc.c	1.0
	Torquay	7	58	47	o.ob	c.bc	3.7
	Paignton	6	60	44	o.bc	bc	3.9
	Penzance	10	56	48	bc	bc.b	5.5
	Newquay	1	53	45	c	bc	3.0
	Bude	15	54	45	r.o	c bc	2.9
	Ilfracombe	0.4	51	40	d.o c	bc.b	3.2
	Weston-super-Mare	6	54	41	or	bc.b.bc	1.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.)	88	67	0.0	55	39	32	5	o.cr	or.o	o.bc.b
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	68	0.0	56	38	37	5	od	om.or	om.b
Camden Sq. (Brit. Rainfall)	82	59	0.0	55	38	35	7	or	o.or	*
Hampstead (Reservoir)	*	68	?	52	36	28	7	o	bc	bc
Richmond Park	*	*								
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	73	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1483 Joules	8.8 Milliwatts.	28 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	8	49	37	32	ou.eg	og.bc	or	2.0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	55	39	30	o.c.b.o	od.o	or.o	*

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

10th and 11th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.8 / 4.6	11.49 / 11.49	7.30 / 7.32
Greenwich	4.19 / 4.17	11.56 / 11.56	7.35 / 7.35
Wick	4.0 / 3.57	12.8 / 12.8	8.16 / 8.19
Valencia	4.58 / 4.56	12.37 / 12.37	8.16 / 8.18

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 55° in a few English localities. Rain fell very generally, and little bright sunshine was recorded except in the extreme west and north-west of the Kingdom.

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. 132.

Thursday, 11th May.

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, *
BRITISH ISLANDS.	Lerwick ...	1012·5	45	WNW	3	c	1016·2	+1	43	+2	NNW	1	-	c	1	1	47	40	op	o	cp	
	Deerness (Orkney)	1013·5	46	WNW	3	b	1016·2	*	46	+2	E	2	-	b	0	-	48	38	bc	bc.b	bc.b	10·6
	Stornoway ...	1013·5	47	SSE	3	bc	1013·9	0	47	+6	-SE	3	-	b	3	-	50	38	bcq	bc	bq	10·5
	Castlebay(Barra Isc.)	1013·4	45	SSE	3	o	1011·4	0	45	+2	SE	5	-	opm	5	1	47	42	c.bc	bc.o	opm	9·0
	Glasgow ...	1011·2	50	WSW	1	b	1015·5	0	41	+1	E	2	-	omd	*	Trace	53	38	b.bc	bq	bq.ong	13·8
	Eskdalemuir ...	1011·8	48	SSW	4	bv	1016·5	+1	40	-2	-	0	-	od	*	0·1	52	38	b.bc	bcph.b	b.bc.e.o	11·7
	Malin Head ...	1011·8	49	E	4	c	1010·3	0	48	+7	SE	3	SE	cq	1	0·3	50	40	bcv	bcv	cq	6·3
	Blacksod Point	1007·6	49	S	4	cmd	1007·9	-2	48	+5	SW	3	SW	omr	3	5	48	43	cq	cmr	cm.cmr	*
	Valencia ...	1010·9	51	SW	3	o	1010·6	0	52	+7	S	4	-	om	*	5	52	44	omr	omr	c.bc.c.or	0·9
	Roche's Point	1011·2	48	S	3	rf	1011·0	*	49	+5	S	3	-	rf	3	5	49	44	opm	fd	df.odf	*
	Birr Castle ...	1011·5	47	SE	1	o	1011·5	*	48	+9	SW	1	-	r	*	2	52	39	c	cp.o	od.or	2·7
	Donaghadee ...	1011·0	47	SSW	4	bc	1013·1	0	45	+3	SSE	3	-	fd	3	1	51	41	cv	bc	eg.omd	*
	Liverpool (Bidston)	1016·1	49	WNW	1	b	1015·2	-1	46	+1	SE	2	SE	o	2	-	51	44	b	b	o	11·4
	Holyhead ...	1015·7	48	SSW	2	cv	1013·5	0	48	+2	SSW	4	-	fk	3	1	51	46	bc.o.c	c.bc.c	c.ofd.f	10·1
	Pembroke(St.Ann's)	1016·9	48	SSW	3	c	?	-1	48	+2	SSW	3	-	o	3	2	51	46	bc	c	o	7·8
	Scilly (St. Mary's)	1016·2	49	SSE	4	om	1015·8	0	51	+3	SSW	2	-	fc	3	2	53	44	cv	omp	o.cmd.f	2·8
	Falmouth ...	1017·5	50	SW	4	c	1016·4	+1	51	+4	SW	1	-	o	*	1	54	46	bc.c	o.bc.c	od.o	6·0
	Jersey (St. Aubin)	1020·2	51	WNW	3	cg	1018·7	*	50	0	SSW	2	-	o	2	0·3	54	47	b.bc.c	c.bc.o	o.b.op.o	6·7
	Portland Bill ...	1018·0	49	W	4	c	1016·8	-1	49	+1	SW	4	-	o	4	0·3	50	46	bc.c	bc.c	bc.c.or	*
	Dungeness ...	1017·5	50	WSW	5	c	10188	+1	49	+2	WSW	3	w	c	2	-	54	46	bc	bc.	bc	*
	Dover	1018·3	48	SW	4	o	1019·0	+1	47	+1	SW	2	SW	c	2	-	55	42	b.bc	bc.c.or	c.b.bc.c	8·5
	Wick	1013·5	46	N	3	bc	1016·1	0	46	+4	SE	2	-	b	2	-	50	33	bc	bc	bmx	*
	Nairn	1013·2	52	ENE	2	bc	1015·3	*	45	+4	-	0	-	bq	0	-	54	32	bc.b	b.bc	bcx	13·2
	Aberdeen ...	1014·6	46	SSE	3	b	1016·6	+1	46	+3	SSE	2	-	b	2	-	52	34	b.bc.c	bc.b	bw	12·0
	Leith	1013·7	52	E	1	bc	1016·0	+1	47	+6	E	1	-	o	2	-	56	41	b	c.bc	bc.o	*
	Tynemouth ...	1014·9	46	SSE	3	bcq	1016·4	+1	43	0	WSW	1	-	cm	2	-	48	41	bc	cp	cm	*
	Spurn Head ...	1016·7	46	SSE	4	c	1017·0	0	48	+4	W	1	-	bcm	4	-	52	43	c	c	bc	8·2
	Yarmouth ...	1017·1	47	S	3	bc	1017·9	+1	47	+4	NW	2	-	b	2	-	54	42	bc	bc.	bc	6·7
	Clacton-on-Sea	1017·0	53	S	3	bc	1018·6	+1	48	+4	W	2	W	o	2	-	57	43	bq.bc	bc	bc.c o	9·5
	Nottingham ...	1015·7	53	SW	1	c	1017·0	*	46	+2	S	1	SW	c	*	-	56	46	bc.c	o.c	c.o	6·4
	Benson (Oxon.) ...	1016·7	53	SW	1	b	1018·0	+1	46	+3	SSE	3	-	o	*	0·1	57	39	bc	bc	bc.od	*
	Sth Farnborough	1016·9	56	W	2	bc	1018·3	0	46	+2	S	1	-	omd	*	-	58	46	v.bc	o.bc	bc.om	11·2
	London (Kew Obsy.)	1017·2	55	N	1	c	1018·7	+1	48	+5	SSW	2	-	om	*	-	56	42	b.bc.c.o	o.c.bcp.c	c.om	8·2
NORTHERN EUROPE.	Spitsbergen ...	1031·6	21	S	4	s	1026·9	-2	28	+10	S	3	*	o	*	*	25	18				
	Vardö	1034·9	23	NE	2	o	1029·0	0	27	-1	NE	3	-	o	3	*	28	25				
	Bodö	1015·9	45	E	4	b	1019·8	+3	39	-15	E	2	-	b	1	-	54	37				
	Christiansund	1009·1	43	SW	2	f	1013·6	+2	46	-2	-	0	-	o	2	-	48	43				
	Skudesnaes ..	1009·5	50	NW	5	c	1012·4	+1	46	+1	NNW	5	-	c	2	-	50	45				
	Færder(X'tiania Fjord)																					
	The Scaw (Skagen)	1007·3	50	SSE	2	o	1008·2	+2	43	-2	NE	4	-	r	4	2	55	43				
	Blaavands Huk	1004·3	48	N	1	r	1011·4	+3	46	-2	NNW	6	-	o	4	4	52	48				
FRANCE, &c.	The Helder ...	1016·0	48	WNW	5	bc	1018·1	0	43	-3	S	1	-	b	1	Trace	48	37				
	C. Gris Nez ...	1018·3	50	SW	5	bc	1019·0	0	50	+6	WSW	4	*	c	3	-	57	46				
	La Hève	1019·7	50	NW	2	o	1019·3	*	50	+2	SSW	3	*	o	2	-	57	46				
	Brest (St. Mathieu)	1020·0	50	SSW	3	o	1018·9	0	52	+2	WSW	3	*	m	3	-	55	48				
	Rochefort(Ile d'Aix)	1022·4	54	NW	4	b	1022·0	+1	51	0	SSE	2	*	c	*	-	59	46				
	Biarritz	1022·1	57	N	2	b	1021·7	0	53	-1	E	2	*	b	2	-	64	45				
	Paris														*							
	Belfort	1018·6	55	W	5	c	1022·1	*	48	+2	-	0	*	m	*	-	62	46				
	Lyons	1019·3	57	NNW	4	c	1020·4	*	52	-1	N	3	*	b	*	-	65	46				
	Nice	1013·3	61	-	0	b	1013·3	+2	63	+1	-	0	*	b	0	-	70	52				
	Perpignan ...	1019·1	61	NNW	3	o	1019·7	+1	59	-2	NW	3	-	b	*	-	72	48				
	Sanguinaire ...	*	61	NW	3	bc	*	*	61	-1	E	3	*	b	4	-	66	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1015·7	70	W	2	b	1018·7	+1	57	+2	-	0	-	b	*	-	72	50				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1026·0	*	SSW	4	bc	1024·0	0	57	0	W	3	*	c	1	-	68	57				
	Madeira (Funchal)	1020·0	63	NE	3	c	1020·2	0	57	+3	NE	3	-	bc	3	-	64	54				
	Gibraltar	1018·3	61	E	4	c	1016·9	*	60	+1	E	5	*	c	2	-	66	57				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·7	+2	63	-1	NNW	4	W	bc	2	-	70	61				
	Limassol(6 a.m.)	*	*	*	*	*	1013·6	0	73	+1	ESE	2	-	c	3	-	84	56				
	Alexandria(6 a.m.)	1015·9	70	-	0	b	1016·2	0	73	+3	-	0	-	b	0	-	77	66				
	Cairo (Helwan)6 a.m.	1013·9	81	NE	3	b	1015·0	0	77	+9	NE	3	-	b	0	-	90	63				
	YESTERDAY'S REPORTS	....9 P.M., 8 P.M. G.M.T.					..late May....., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1011·6	-1	63	+4	W	1	W	o	3	-	72	52				
	Turin						1016·6	+2	57	0	-	0	-	b	*	5	66	52				
	Pesaro						1015·1	+2	57	-4	8	1	SW	bc	1	-	70	48				
	Leghorn						1014·4	0	61	-2	-	0	8	b	1	-	64	55				
	Rome						?	0	59	-2	N	1	-	r	*	-	73	57				
	Viesti						1011·6	-1	63	-5	W	1	W	o	3	-	72	52				
	Brindisi						1012·2	-1	63	-3	SSE	1	-	o	3	-	72	63				
	Cagliari						1014·0	0	59	+2	NW	5	NE	c	4	-	75	50				
	Palermo						1009·9	+2	63	-1	N	1	W	f	1	-	68	52				
	Tripoli																					
	Algiers	1017·6	55	ENE	5	c	1018·6	+2	57	-2	SE	1	-	b	3	6	61	52				

UPPER AIR
Aberdeen
Pilot Balloon Ascent at 8 a.m. today

4,000 feet SSE 15 miles per hour
3,000 " SSE 17 " " "
2,000 " SbyE 15 " " "
1,000 " SSE 12 " " "
500 " SSE 12 " " "
Surface SEbyS 7 " " "

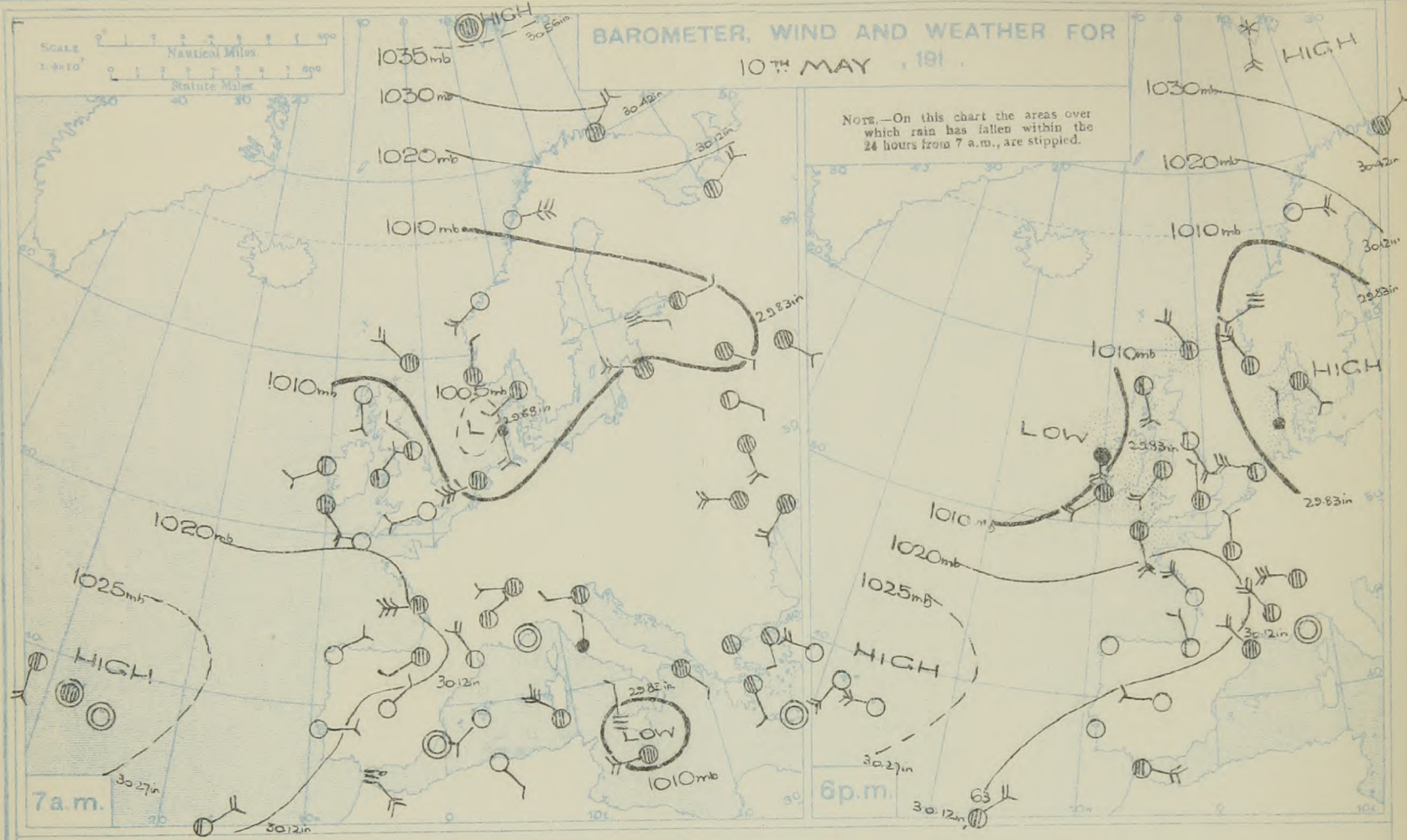
RAINFALL.

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 10TH MAY, 191 .



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b; 1	South-Easterly or Easterly winds, light; variable sky, some rain; cool.
2 a, b; 3; 4 a, b; 5	Southerly and South-Westerly winds, light to moderate; much cloud, some rain and mist; cool.
6 a, b	Same as Nos. 0 and 1.
7 a, b; 8 a, b; 9 a, b; 10 a, b	Southerly and South-Westerly winds, light or moderate; dull generally, some rain, fog or mist on coast; cool.
Western Channel and Bay 11	South-Westerly and Southerly winds, light or moderate; sea slight; some rain, mist or fog at times.

FURTHER OUTLOOK.

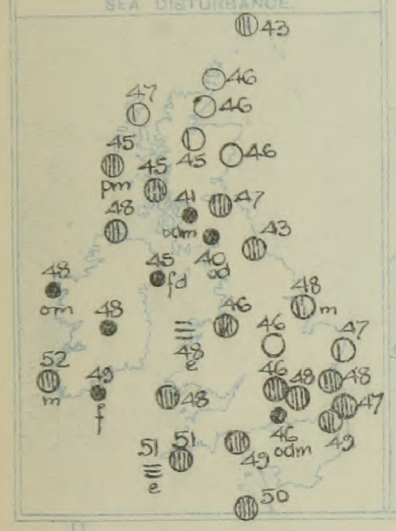
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 11TH MAY, 1916.

GENERAL INFERENCE.

The shallow depression will probably still move or extend eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

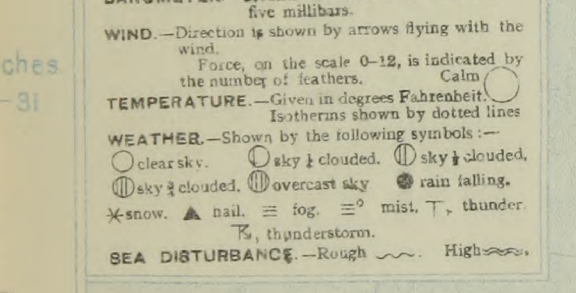
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



HIGH
1025mb
30·21in
1020mb
40°
30·12in
29·97in
1015mb
29·83in
1010mb
LOW
Barometer
Bar rising
1010mb
Barometer
LOW
falling slightly
50°
1010mb
1015mb
1020mb
Scarcely
30·12in
29·97in
changing
60°
LOW
1015mb
HIGH

Issue No. 19894.

DAILY WEATHER REPORT.

Thursday, 11th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	9th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	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.	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	1018.4	36	E	2	0	1017.5	−1	30	+2	ENE	3	*	c	*	—	*	27
Gorki	-	-	-	-	-	1010.4	+5	59	+5	SE	1	*	bc	*	1	*	*
Veliki Luki ...	-	-	-	-	-	1009.0	-	55	−4	SSE	1	*	0	*	—	*	*
Hangö	1010.9	54	ESE	2	bc	1007.1	+3	45	−7	ESE	2	*	f	-	—	*	45
Riga	1008.4	59	SE	2	0	1010.9	+1	52	−11	-	0	*	0	0	—	*	50
Petrograd	1013.3	63	E	2	b	1008.7	−4	61	+7	E	1	W	c	*	—	72	54
Moscow	1017.7	57	SSE	1	c	1014.4	−2	55	+3	S	2	*	0	*	-	*	54
Kiev	1013.7	63	SE	1	b	1012.2	+1	61	+4	S	3	*	0	*	—	*	57
Kharkov	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	-
Kishinev	1016.0	64	SE	3	0	1017.2	+2	55	0	NW	4	*	0	*	5	*	54
Elisabetgrad ...	1015.8	61	-	0	b	1015.3	0	61	-	S	2	*	bc	*	—	*	-
Nicolaiev	1017.9	60	SSW	2	b	1016.2	*	59	+5	S	2	*	b	-	—	*	52
Odessa	1016.7	59	SW	3	b	1015.7	+1	61	+2	SW	3	*	0	-	—	*	57
Soukhoum	1016.8	59	-	0	0	1017.6	-	55	−6	-	0	*	r	-	6	*	55
Tarkhankout ...	1017.9	57	-	0	b	1017.7	-	59	0	SW	1	*	bc	-	—	*	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	-	49	32	b	b	13.3
	Banff	-	50	35	b	b	13.2
	St. Andrews	3	51	38			5.3
	Carnoustie	0.4	48	42	bc.ob	bc	6.0
Eng. N.E.	Harrogate	1	58	37	b.bc	b	12.1
	Skegness	2	52	39	bc	bc.o	8.3
Eng. N.W.	Morecambe	-	50	40	bc	b	11.7
	Blackpool						
	Southport	0.3	50	39	c.bc.b	b	11.0
Midlands.	Buxton						
	Leamington Spa	-	56	36	bc	c	8.0
	Malvern	0.1	55	37	bc	bc	6.0
	Ross-on-Wye	-	52	32	b.bc	bcm	8.6
Wales.	Rhyl	0.1	49	40	bc	bc	8.9
	Colwyn Bay	-	50	41	b.bc	bc	5.5
	Llandudno	1	51	41	cp.b	b	8.2
	Aberystwyth	-	50	40	o.c.b	bc.c	8.0
	Tenby	-	51	36	bc	bc.o	8.6
England, E.	Lowestoft	1	53	42	c.bc	bc.c	5.8
	Felixstowe	0.2	56	40	bc	bc.o	8.3
	Walton-on-Naze	0.3	56	40	b	bc.	9.2
	Southend-on-Sea	4	58	40	bc.o	o	7.5
England, S.E.	Margate	1	56	43	b	bc	9.0
	Ramsgate	1	54	41	bc	c	8.7
	Hastings	0.2	55	36	op.bc.b	b.bc	11.1
	Eastbourne	-	55	44	b.bc	b	12.0
	Seaford	-	54	38	b	b.bc	11.2
	Brighton						
	Worthing	-	56	36	b	bc	9.6
	Littlehampton	-	53	46	b	b.bc	10.3
	Bognor						
	Bournemouth	-	57	36	b.bc	c	7.8
England, S.W.	Weymouth	-	58	38	bc.b	bc.c	9.6
	Torquay	-	54	41	bc.b	bc	5.8
	Paignton						
	Penzance	1	52	41	c.bc	b.bc	3.0
	Newquay	*	51	45	bc	bc	4.5
	Bude	-	?	46	bc	od.c	3.6
	Ilfracombe	-	56	41	bc.b	bc.c	7.0
	Weston-super-Mare ...	-	54	38	b	b.bc.c	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.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.) ...	60	73	8.6	60	41	30	-	b.c	o.o	o.c.
City (Bunhill Row)	*	*	7.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	88	8.2	57	42	38	-	bc	c.o	o.c.
Camden Sq. (Brit. Rainfall)	56	73	?	61	43	40	Trace	b.bc	bc.o	*
Hampstead (Reservoir) ...	*	81	7.3	55	40	31	-	c	c	o
Richmond Park ...	*	*	8.9							
Kew. (See front page.)	*	*	8.2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	58	80	8.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.		
Total.	Average Rate.	Max. Rate.
1652 Joules	30.1 Milliwatts.	87 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.	0.4	53	37	32	or.bc	bc	bc.	11.6
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	58	39	36	o.c.o	bc.c	c.c.	*

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

11th & 12th May, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4.6 / 4.14	11.49 / 11.49	7.32 / 7.34
Greenwich	4.17 / 4.15	11.56 / 11.56	7.35 / 7.37
Wick	3.57 / 3.56	12.8 / 12.8	8.19 / 8.22
Valencia	4.36 / 4.56	12.37 / 12.37	8.18 / 8.20

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 55° in several English localities, but remained below 50° at some northern stations. Slight rain fell in the west, but over the Kingdom generally there was much 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.

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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. 133

Friday, 12th May,

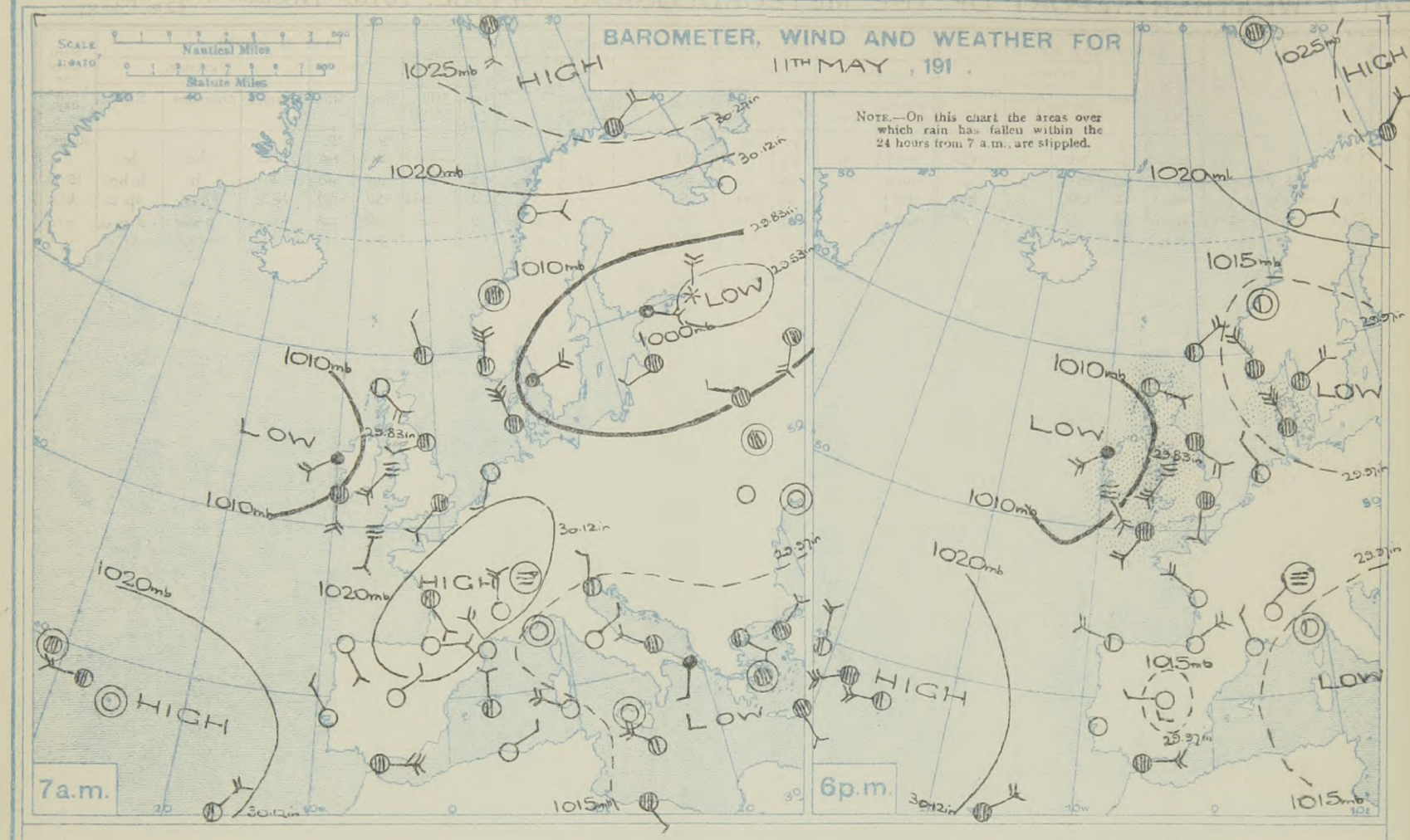
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, *
BRITISH ISLANDS.	Lerwick ...	1016·9	50	NE	3	bc	1017·7	0	47	+4	SSE	1	–	bc	1	–	51	40	bc	bc	bc	
	Deerness (Orkney)	1016·2	46	ESE	3	b	1014·9	*	46	0	SE	4	SE	bc	4	–	49	43	b	b	b·bc	15·4
	Stornoway ...	1012·1	52	ESE	2	bcg	1010·7	0	49	+2	S	2	–	c	2	0·4	54	47	bc.c	bcg	op.c	6·4
	Castlebay(Barraisd.)	1010·0	48	SE	5	r	1008·6	−1	48	+3	E	5	–	omp	5	10	48	43	opm	omr	r.d.opm	0·0
	Glasgow ...	1013·5	53	SE	1	ogd	1013·1	0	48	+7	ESE	1	–	omd	*	1	54	41	dp.om	omgpd	omdpg	0·1
	Eskdalemuir ...	1014·5	51	SSW	3	o	1014·1	0	49	+9	S	3	–	o	*	1	53	39	od.o	o	od.om	0·3
	Malin Head ...	1006·0	50	SE	6	omq	1006·3	−2	51	+3	S	4	S	cmp	3	6	51	49	omr	omq	cmp	0·5
	Blacksod Point	1006·4	50	SW	4	omr	1009·6	+2	46	−2	NW	2	NW	bc	2	18	50	41	omr	omr	omr.bc	*
	Valencia ...	1008·9	52	SSE	4	m	1011·7	+3	45	−7	NW	2	-	op	2	5	54	44	omdp	omd	omr.op	0·0
	Roche's Point	1013·3	51	SW	3	o	1012·0	*	50	+1	S	1	–	o	2	1	53	49	fd	fd.om	afd.om	*
	Birr Castle ...	1009·9	57	S	2	o	1009·7	*	49	+1	WSW	2	–	o	*	2	60	47	or.c	cp.o	op	0·6
	Donaghadee ...	1012·0	48	SSE	3	f	1011·2	0	48	+3	S	3	–	omr	2	3	48	45	fr	f	of.omr	*
	Liverpool (Bidston)	1014·6	55	SSE	1	o	1014·1	0	49	+3	SE	2	SE	o	1	–	59	46	o	bc.o	o.c	1·3
	Holyhead ...	1013·7	50	SSW	5	f	1012·6	−1	50	+2	S	5	–	fd	4	1	53	47	f.op.o	of	c.o.opd	0·1
	Pembroke(St.Ann's)	1015·6	50	SW	3	c	1013·7	−1	49	+1	SW	3	–	ofr	2	3	51	47	f	f	ofr	0·8
	Scilly (St. Mary's)	1015·4	53	SSW	3	o	1013·5	−1	50	−1	SSE	4	S	omp	4	10	57	48	om.cm	bc.c.	fr.omp	1·8
	Falmouth ...	1016·5	55	SW	2	o	1014·6	0	51	0	SSW	3	-	od	*	1	58	50	od.o.c	c.bc.o	oc.md	0·2
	Jersey (St. Aubin)	1018·3	56	W	2	o	1016·6	*	53	+3	E	1	-	ofc	0	2	68	50	op	op.o	ofc	0·3
	Portland Bill ...	1017·5	50	-	0	f	1016·5	0	50	+1	SSW	1	SW	of	2	–	54	48	om.f	of	f.c	*
	Dungeness ...	1017·3	51	WSW	3	c	1016·5	−1	51	+2	SW	1	-	fc	1	–	56	49	bc	bc	bc.of	*
	Dover	1018·1	50	SSW	2	o	1016·5	0	50	+3	SW	2	–	omc	2	–	54	47	c.bc	bc.o.o	oq	3·9
	Wick	1015·3	46	ESE	4	b	1014·2	−2	45	−1	SE	4	-	bc	4	-	48	44	bm	bm	bcm	*
	Nairn	1012·9	58	SW	2	bc	1012·3	*	53	+8	E	1	-	bcm	1	-	61	44	bcg	bc.c.bc	bc	10·6
	Aberdeen ...	1016·8	47	SE	3	b	1015·7	0	45	−1	SE	3	-	od	2	–	52	43	b	b	bc.c.od	14·2
	Leith	1015·2	54	E	1	o	1013·7	−1	51	+4	S	1	–	o	2	0·2	54	46	o.c.o	o	omp.o	*
	Tynemouth ...	1016·0	46	SE	3	o	1014·9	−2	47	+4	SSE	1	-	omq	2	–	50	42	bcm	bcm	omq	*
	Spurn Head ...	1017·7	53	SW	2	o	1016·3	0	49	+1	S	2	–	om	3	-	54	47	cm	c.o	o	2·1
	Yarmouth ...	1017·5	51	S	2	c	1017·1	0	49	+2	SSW	3	-	omr	2	–	58	46	bc	bc.c.	bc.om	2·3
	Clacton-on-Sea	1017·4	52	S	1	o	1016·4	0	52	+4	S	2	–	o	2	-	54	48	o.c	c.o	o	1·4
	Nottingham ...	1015·7	56	S	1	o	1015·2	*	53	+7	WSW	1	W	c	*	0·2	58	46	cp.o	o.c	op	0·1
	Benson (Oxon.) ...	1016·1	57	S	1	o	1015·7	0	51	+5	S	2	–	o	*	2	57	46	o	o	or.o	*
	Sth Farnborough	1016·4	57	SSW	3	o	1015·6	0	53	+7	SSW	2	–	o	*	Trace	58	46	dm.o	o.c.o	o	0·5
	London (Kew Obsy.)	1016·9	57	S	2	c	1016·2	0	54	+6	S	1	-	o	*	Trace	58	47	omp.od.d	o.c	c.o	0·1
NORTHERN EUROPE.	Spitsbergen ...	1020·4	28	–	0	o	1019·9	0	21	−7	-	o	*	b	*	*	32	18				
	Vardö	1028·4	27	NE	3	o	1026·9	0	27	0	SE	2	–	o	2	*	30	25				
	Bodö	1023·3	37	E	2	b	1016·0	0	36	−3	E	5	-	b	2	–	45	28				
	Christiansund	1014·9	52	–	0	b	1016·0	0	46	0	E	2	NW	b	2	–	54	43				
	Skudesnaes ..	1014·9	45	NW	4	o	1016·0	0	46	0	NNW	2	–	o	1	–	48	43				
	Færder(X'tianiaFjord)																					
	The Scaw (Skagen)	1013·0	43	NE	3	c	1018·3	+1	37	−6	NE	3	NE	bc	3	1	45	37				
	Blaavands Huk	1014·6	45	NNW	6	o	1018·0	+1	41	−5	ENE	1	NW	c	1	1	48	36				
FRANCE, &c.	The Helder ...	1017·7	54	NW	1	b	1017·6	0	48	+5	E	1	NW	b	0	–	55	46				
	C. Gris Nez ...	1018·6	50	SW	3	o	1018·3	−1	52	+2	SW	1	*	f	1	–	59	46				
	La Hève	1017·0	53	WSW	1	f	1014·1	*	54	+4	S	1	*	m	0	–	59	54				
	Brest (St. Mathieu)	1018·6	52	SSW	1	m	1015·9	0	53	+1	SSE	3	*	o	2	–	54	50				
	Rochefort(Ile d'Aix)	1019·1	57	NW	3	b	1015·5	0	54	+3	E	3	*	c	*	–	66	50				
	Biarritz	1016·0	57	NE	4	c	1013·1	0	59	+6	E	1	*	bc	1	–	63	48				
	Paris														*							
	Belfort	1019·0	54	–	0	m	1018·7	*	52	+4	E	2	*	m	*	–	63	43				
	Lyons	1018·1	60	NNE	1	b	1017·1	*	52	0	NNW	2	*	b	*	–	66	46				
	Nice	1013·1	60	-	0	b	1013·3	+2	58	−5	SW	2	*	m	2	Trace	68	50				
	Perpignan ...	1015·3	70	NNW	1	b	1014·7	0	61	+2	–	0	–	b	*	–	79	46				
	Sanguinaire ...	*	63	NW	3	bc	*	*	60	−1	E	3	*	o	3	–	68	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1017·7	63	WNW	3	b	1017·9	+3	57	+7	SSE	4	–	b	1	–	63	50				
	Madrid (8 a.m.)	1013·0	72	W	1	b	1014·1	+1	63	+6	SE	1	W	bc	*	?	75	54				
	Lisbon (7 a.m.)																					
	Azores(Horta, 8 a.m.)	1023·3	*	WSW	5	o	1024·7	+1	61	+4	-	o	*	o	1	2	68	57				
	Madeira (Funchal)	1019·5	63	NE	3	o	1021·9	0	57	0	NE	2	–	bc	2	–	64	57				
	Gibraltar	1015·9	61	E	4	o	1015·9	*	57	−3	–	o	*	m	1	–	65	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·6	+2	63	0	NW	2	–	b	1	–	70	59				
	Limassol(6 a.m.)	*	*	*	*	*	1012·0	0	75	+2	WSW	1	–	bc	2	–	88	57				
	Alexandria(6 a.m.)	1014·4	72	-	0	b	1013·2	0	75	+2	-	0	NW	bc	0	–	81	68				
	Cairo (Helwan)6 a.m.	1012·3	46	NE	3	b	1011·6	+1	82	+5	ENE	3	–	b	0	–	93	72				
	YESTERDAY'S REPORTS	....10th...., 8 P.M. G.M.T.					...11th May...., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1013·4	+2	61	−2	–	0	N	bc	3	–	70	57				
	Turin						1014·2	−3	59	+2	–	0	–	b	*	–	68	54				
	Pesaro						1012·6	+1	63	+6	W	2	NW	b	4	–	68	48				
	Leghorn						1014·7	+3	63	+2	-	0	W	b	4	–	68	55				
	Rome						1013·2	+1	63	+4	–	0	-	b	*	2	73	57				
	Viesti						1010·7	+1	63	0	NW	2	-	c	3	–	63	59				
	Brindisi						1012·3	0	61	−2	SSW	1	NW	r	4	Trace	63	61				
	Cagliari						1015·6	0	57	−2	NW	4	NE	b	4	–	79	45				
	Palermo						1014·9	+1	64	+1	-	0	-	b	1	–	75	48				
	Tripoli						1013·2	0	64		SSE	1	–	c	3	Trace	81	63				
	Algiers	1019·1	59	NE	3	c	1018·4	+1	57	0	ENE	1	-	b	3	-	66	54				

RAINFALL

Equivalents of Millimetres in Inches.

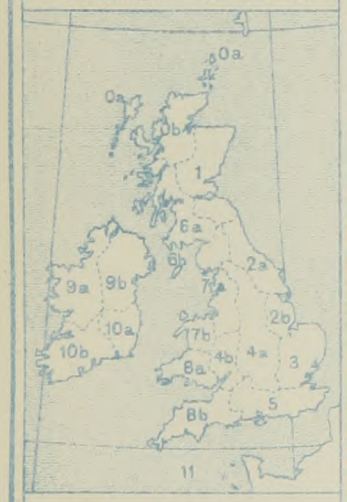
mm.	Inches	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 {a b} Wind from some Easterly point, light to fresh; becoming rainy; cool.

1 Southerly or Easterly winds, light or moderate; dull, rainy, some mist; cool.

2 {a b}, 3, 4 {a b}, 5 Southerly and South-Westerly winds, light or moderate, dull generally, some rain and mist, fog on south coast; cool.

6 {a b} Same as No. 1.

7 {a b}, 8 {a b} Southerly to South-Westerly or Westerly winds, light to fresh; dull, mist or fog on coast, rain at times; cool.

9 {a b}, 10 {a b} Winds between South-West and North-West or North, light to fresh; changeable, some rain and mist; cool.

11 Southerly to South-Westerly winds, light or moderate; some rain and fog.

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

FURTHER OUTLOOK.

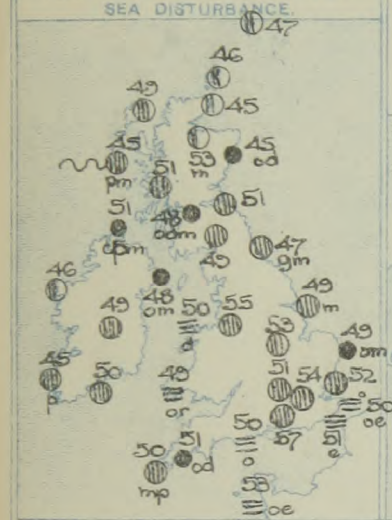
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 12TH MAY, 1916.

GENERAL INFERENCE.

The motion of the depression north-eastward or eastward will probably be very slow.

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 1025mb HIGH 1015mb 1010mb LOW 1015mb 1015mb 1020mb HIGH 1015mb LOW

Barometer rising slightly, falling, Barometer rising, Barometer stationary, Barometer rising, Barometer rising, Barometer rising

Issue No. 19,895

DAILY WEATHER REPORT.

Friday, 12th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	10h. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	11h. 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	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Gorki	.	.	.	.	.	1011·7	0	48	-11	NW	1	*	b	*	—	*	39
Veliki Luki ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Hangö	1004·0	40	WNW	2	r	1003·3	0	39	-6	ESE	3	*	r	*	16	*	36
Riga	1004·9	51	SW	3	b	1006·9	+2	50	-2	SW	1	*	0	*	—	*	43
Petrograd	1001·9	51	NE	3	r	999·0	0	34	-27	NNE	4	—	3	*	57	68	34
Moscow	1009·0	61	S	2	o	1008·2	0	50	-5	SW	3	*	0	*	—	*	48
Kiev	1017·1	50	NW	2	b	1016·2	+1	50	-11	—	0	*	0	*	3	*	43
Kharkov	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kishinev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Elisabetgrad ...	1017·0	54	NW	2	b	1016·7	0	52	-9	E	1	*	c	*	4	*	45
Nicolaiev	1016·6	59	NW	4	c	1014·6	*	55	-4	—	0	*	c	0	1	*	54
Odessa	1017·9	62	NNE	2	o	1016·0	+1	55	-6	NNE	2	*	0	0	3	*	54
Tarkhankout ...	.	.	.	.	.	1015·9	*	59	+4	—	0	*	0	0	—	*	55
Soukhoum	1017·9	61	—	0	tr	1017·2	*	59	0	—	0	*	0	0	24	*	*

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	41	o	o	0·6
	Banff	—	56	35	b	b	14·8
	St. Andrews						
	Carnoustie	—	50	44	bc	bc. og	7·9
Eng. N.E.	Harrogate	—	55	36	c. bc. c	c. o	0·8
	Skegness	—	57	43	c bc	bc o	6·4
Eng. N.W.	Morecambe	0·1	55	38	o. c	c o	0 0
	Blackpool						
	Southport	0·3	57	43	bc. c	c or	0·7
Midlands.	Buxton						
	Leamington Spa	—	59	42	o. c	o. c	0·8
	Malvern						
	Ross-on-Wye	—	60	43	om	bcm	0 3
Wales.	Rhyl	2	58	44	p bc	p bc. o	2·5
	Colwyn Bay	—	58	46			2·8
	Llandudno	1	57	45	c	c	1·9
	Aberystwyth	—	56	48	o c	c. b. o	0 3
	Tenby	3	53	47	bc	or	0·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F	F.			Hr.
England. E.	Lowestoft	—	59	44	c	c o	2. 5
	Felixstowe	—	55	45	bc	o. bc	2. 7
	Walton-on-Naze	—	54	45	bc	bc	2·6
	Southend-on-Sea	—	56	44	bc. c. o	o. c	0·9
England. S.E.	Margate	—	56	43	c	c	0. 5
	Ramsgate	—	55	40	c	c	1·4
	Hastings	1	55	44	o	bc. o	1·2
	Eastbourne	—	56	46	bc o	o bc	0·2
	Seaford	—	56	47	o	o	0·1
	Brighton						
	Worthing	—	55	45	o	o	0·2
	Littlehampton	—	55	9	o. bc	o	0·5
	Bognor						
	Bournemouth	1	61	43	or	bc	5·4
England. S.W.	Weymouth.	1	60	47	z. bc. c	cz	2·2
	Torquay	1	57	47	o c	c. o	0·9
	Paignton						
	Penzance	2	59	48	of c	bc	1·5
	Newquay	*	56	46	o	o	0 0
	Bude						
	Ilfracombe	2	58	43	cp. c	cp. o	0·6
	Weston-super-Mare ...	1	62	44	bc. c	bc cr	0·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	85	87	0·3	58	49	46	—	o	o	o
City (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	87	0·2	57	49	49	—	o	bc. o	o
Camden Sq. (Brit. Rainfall)	76	83	0·0	58	50	49	Trace	od. o	o	*
Hampstead (Reservoir) ...	*	87	0·1	55	48	43	—	o	om	om
Richmond Park ...	*	*	0·2							
Kew. (See front page.)	*	*	0·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	82	0·1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
717 Joules	13·0 Milliwatts.	44 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 9 p.m.	*				*			*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	—	50	43	38	c. bc. o	o	op. o. g	*

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

12th & 13th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.44 / 4.42	11.49 / 11.49	7.34 / 7.36
Greenwich	4.15 / 4.13	11.56 / 11.56	7.37 / 7.34
Wick	3.54 / 3.52	12.8 / 12.8	8.22 / 8.25
Valencia	4.54 / 4.52	12.37 / 12.37	8.20 / 8.22

NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 60° in these Islands. Rain fell in various localities, but mostly in slight amounts. Except in some parts of Scotland there was little 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.

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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. 134

Saturday, 13th May,

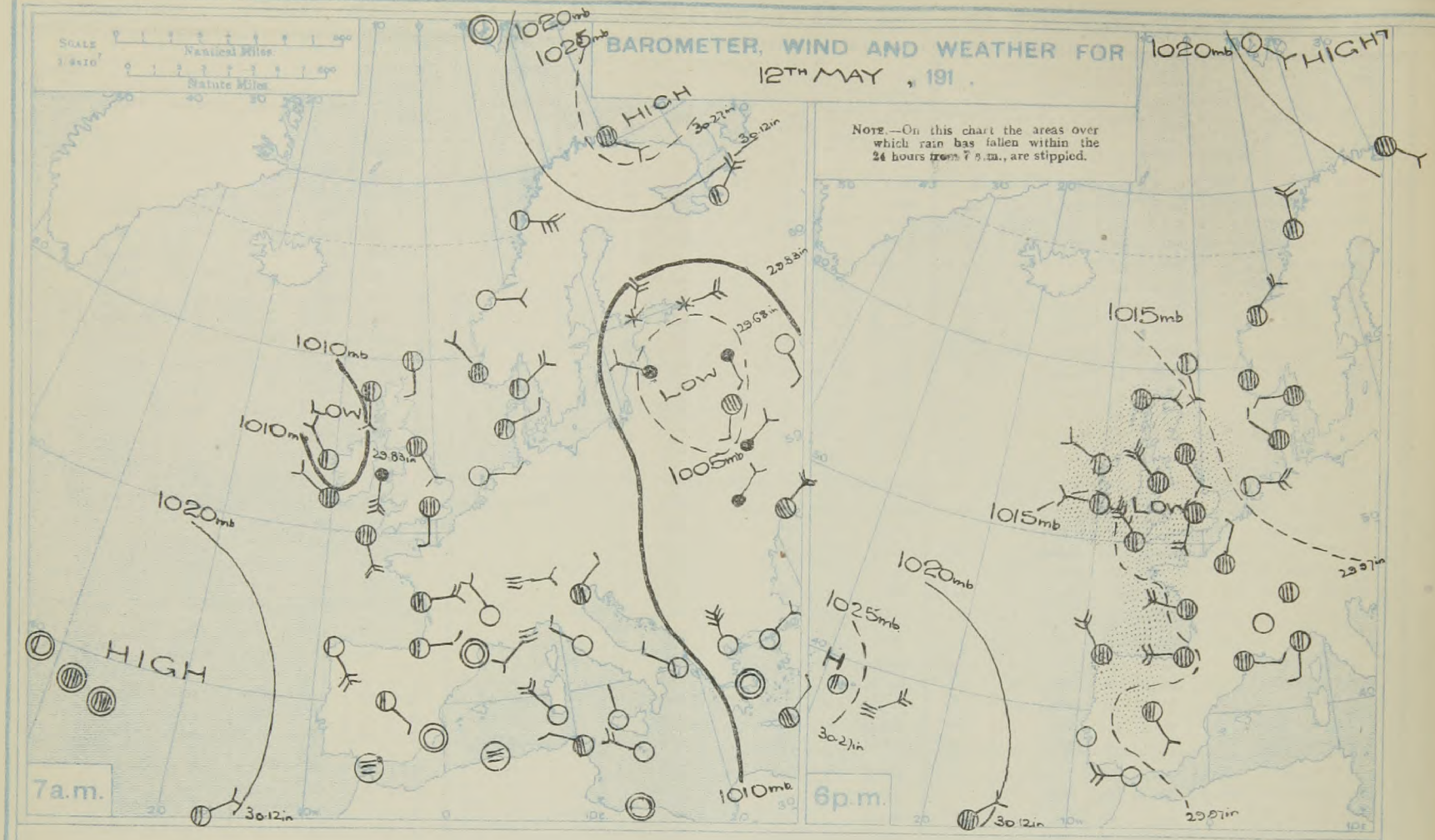
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours,
BRITISH ISLANDS.	Lerwick ...	1017·4	49	SSE	2	bc	1014·2	-1	45	-2	S	2	S	bc	2	-	50	41	bc	bc	bc	*
	Deerness (Orkney)	1013·5	45	SE	4	om	1011·5	*	45	-1	SE	5	-	m	4	-	48	44	bc.o	om	om	3·4
	Stornoway ...	1010·6	54	E	2	o	1010·1	-1	46	-3	W	2	-	o	2	1	57	46	cq	c.op	odp	1·5
	Castlebay (Barra Isd.)	1011·3	47	NW	3	o	1010·7	-1	47	-1	SSW	3	-	c	3	6	48	40	opmr	r.o	o.bc	0·0
	Glasgow ...	1011·0	52	S	1	omr	1010·9	-1	46	-2	E	1	-	ow	*	9	55	46	op.or	r	omr.op	0·0
	Eskdalemuir ...	1011·4	50	SW	4	omr	1010·6	0	47	-2	—	0	-	o	*	2	55	45	c.oq	or.o.od	or.o	0·0
	Malin Head ...	1011·4	49	NNW	3	bc	1011·3	-1	43	-8	S	2	-	bc	2	2	56	40	omd	bm	bc.	1·2
	Blacksod Point	1012·9	49	WNW	2	bc	1009·8	-1	46	0	SW	4	SW	cm	3	2	51	42	bc	bc	bc.cmr	*
	Valencia ...	1015·6	50	W	2	bc	1012·9	-1	51	+6	W	3	W	o	3	3	51	45	bc.bw	c.bcr	c.or.o	10·2
	Roche's Point	1014·3	52	NNW	3	b	1016·1	*	49	-3	SSE	2	-	r	2	3	54	45	dm.o	c.bc.b	b.md	*
	Birr Castle ...	1013·0	51	NNW	1	c	1013·2	*	44	-5	S	1	-	o	*	6	52	40	or	cp.c	c.o	27
	Donaghadee ...	1011·1	45	N	4	omr	1012·2	+1	44	-4	WNW	3	-	bcm	2	7	51	40	omr	omr	em.bcm	*
	Liverpool (Bidston)	1011·1	52	SSW	1	r	1011·7	0	45	-4	SW	4	-	o	2	12	56	45	or	or	or.o.	0·0
	Holyhead ...	1010·9	47	NW	5	ome	1013·2	+1	46	-4	WNW	5	NW	b	4	10	52	45	od.r	omr	c.oc.bc	0·0
	Pembroke (St. Ann's)	1012·3	47	NNW	4	op	1014·9	+1	46	-3	NW	3	NW	c	2	2	49	44	orf	opd	cp.bc	0·0
	Scilly (St. Mary's)	1013·8	50	NW	6	cq	1016·2	0	49	-3	WNW	4	W	omp	4	1	56	46	om	om.cq	bc.cp	2·6
	Falmouth ...	1012·7	53	WSW	3	c	1015·6	+2	48	-3	NW	2	-	o	*	1	54	44	od.o	od.c.o.c	c.bc.c.o	0·3
	Jersey (St. Aubin)	1014·5	54	WNW	2	or	1014·9	*	51	-2	WNW	4	-	b	3	5	60	46	om.bc	op.or	bc.o.b	2·9
	Portland Bill ...	1013·3	50	WSW	2	c	1012·2	0	49	-1	NW	5	NW	c	3	1	52	46	c.od	cmr	cd.bc	*
	Dungeness ...	1014·3	53	SW	1	c	1010·2	0	50	-1	S	1	-	r	1	11	56	48	of.c	c.bc.c	fr.or	*
	Dover	1013·9	52	S	1	c	1010·2	-1	49	-1	W	1	-	r	2	16	58	48	b.c	bc.cm	c.or	1·7
	Wick	1012·6	47	SE	1	m	1011·4	-2	45	0	SSE	3	-	f	4	-	47	44	bc.omq	omq	bcm.fc	*
	Nairn	1011·5	53	-	0	qgm	1010·2	*	48	-5	-	0	-	me	0	1	60	47	cm.o	omqu	me	0·4
	Aberdeen ...	1014·1	46	SSE	3	b	1012·3	-1	46	+1	SSE	3	-	o	2	-	50	44	od.o	o.c.o	o	0·5
	Leith	1011·2	47	NE	1	o	1010·7	0	46	-5	NNE	1	-	r	2	5	58	45	od.o	od.o	od.or	*
	Tynemouth ...	1012·2	46	SSE	2	om	1010·4	-1	45	-2	ESE	1	-	f	2	6	50	45	bcm	omr	omr	*
	Spurn Head ...	1013·1	51	SSE	4	om	1010·2	-1	51	+2	SSE	4	-	om	4	3	54	46	om	om	om.cq	0·6
	Yarmouth ...	1014·2	50	S	3	o	1009·9	-1	49	0	SSE	3	-	om	3	9	52	48	bc.om	om	omr	0·4
	Clacton-on-Sea	1013·5	52	SSE	3	o	1010·1	0	51	-1	WSW	1	-	r	0	11	57	50	o.c.o	oe	oge.r	2·0
	Nottingham ...	1011·6	58	S	1	r	1010·0	*	49	-4	NW	3	NW	r	*	16	61	49	c.o	c.or	rd.o	0·2
	Benson (Oxon.) ...	1012·5	55	SSW	3	o	1010·6	+1	50	-1	NW	2	-	r	*	5	61	49	o	or	r	*
	Sth Farnborough	1012·8	56	SW	3	r	1009·9	0	50	-3	W	2	-	or	*	2	62	49	o	o	od.r	0·7
	London (Kew Obsy.)	1013·0	60	SSW	3	o	1010·4	0	51	-3	SW	1	-	orm	*	6	63	50	o	o.or.o	o.orm	0·4
NORTHERN EUROPE.	Spitsbergen ...	1021·6	30	SE	2	b	1025·1	+1	28	+7	SE	4	*	b	*	*	32	21				
	Vardö	1022·4	27	SE	2	o	1020·0	-2	25	-2	SE	3	-	bc	3	*	32	27				
	Bodö	1018·6	36	N	4	c	10109	-3	36	0	E	2	-	o	2	-	44	32				
	Christiansund	1015·4	46	NE	3	c	1012·4	-2	45	-1	E	0	-	o	2	-	50	39				
	Skudesnaes ..	1015·8	45	NW	0	o	1013·9	0	46	0	SE	1	-	bc	1	-	46	41				
	Færder (Xiania Fjord)																					
	The Scaw (Skagen)	?1017·5	39	W	1	o	1015·0	-1	41	+4	WSW	1	-	c	1	Trace	45	37				
	Blaavands Huk	1017·5	46	NW	1	o	1015·3	0	48	+7	NW	1	-	o	0	-	50	41				
FRANCE, &c.	The Helder ...	1015·7	52	E	3	b	1012·3	-2	50	+2	ESE	3	-	c	1	-	54	48				
	C. Gris Nez ...	1014·3	55	SW	3	c	1011·4	-2	50	-2	WNW	2	*	r	4	15	59	48				
	La Hève	1020·4	59	ENE	1	r	1012·0	*	48	-6	WNW	4	*	o	4	32	64	46				
	Brest (St. Mathieu)	1015·0	55	SW	1	c	1018·3	+2	52	-1	NW	3	*	c	2	-	59	46				
	Rochefort (Ile d'Aix)	1013·7	59	WNW	4	o	1015·8	+2	52	-2	NW	5	*	c	*	Trace	73	54				
	Biarritz	1016·3	55	W	4	o	1008·6	+1	56	-3	WNW	4	*	c	2	1	59	54				
	Paris	1013·6	61	NNE	1	c	1011·7	0	54		SW	1	-	o	*	13	68	52				
	Belfort	1014·6	60	-	0	c	1012·6	*	54	+2	-	0	*	m	*	-	66	45				
	Lyons							*					*		*							
	Nice	1013·0	57	S	1	c	1012·2	0	54	-4	-	0	*	f	2	-	66	54				
	Perpignan ...	1013·1	64	E	1	o	1015·4	+5	59	-2	NW	4	NW	o	*	-	73	57				
	Sanguinaire ...	*	65	S	3	bc	*	*	57	-3	E	3	*	m	2	-	70	52				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1018·7	57	NW	4	o	1022·7	+3	55	-2	NE	3	-	o	1	-	59	52				
	Madrid (8 a.m.)	1012·0	66	SE	2	c	1017·3	+3	55	-8	E	1	-	b	*	1	76	48				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1025·6	*	-	0	bc							*									
	Madeira (Funchal)	1021·3	64	NE	2	o	1023·5	0	57	0	N	2	-	b	2	-	64	55				
	Gibraltar	1016·6	63	W	4	b	1016·2	*	62	+5	W	5	*	b	2	-	73	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·1	0	64	+1	SW	1	W	bc	0	-	66	57				
	Limassol (6 a.m.)	*	*	*	*	*	1009·5	0	77	+2	W	2	-	bc	2	-	86	57				
	Alexandria (6 a.m.)	1011·4	75	-	0	c	1009·7	-1	77	+2	-	0	-	c	0	-	81	70				
	Cairo (Helwan) (6 a.m.	1009·2	90	NE	4	b	1010·1	+2	77	-5	-	0	-	o	0	-	102	72				
	YESTERDAY'S REPORTS	....11th..., 8 P.M. G.M.T.					....12th May..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1013·6	0	59	-2	NE	1	N	c	3	-	73	55				
	Turin						1013·6	0	57	-2	-	0	-	bc	*	Trace	72	54				
	Pesaro						1013·3	+3	63	0	SW	1	N	b	0	-	70	55				
	Leghorn						1014·0	+1	64	+1	-	0	W	bc	3	-	68	59				
	Rome						1013·2	0	63	0	NW	1	-	b	*	-	73	55				
	Viesti						1012·0	+3	66	+3	NW	1	NW	b	3	-	72	59				
	Brindisi						1011·7	0	63	+2	NW	1	NW	b	2	-	77	59				
	Cagliari						1014·2	0	57	0	NW	4	-	b	3	-	72	43				
	Palermo						1013·7	0	66	+2	-	0	-	b	1	-	73	46				
	Tripoli						1014·0	+2	66	+2	-	0	-	b	2	-	68	61				
	Algiers	1013·8	61	NE	1	b	1014·6	+1	59	+2	-	0	-	f	2	-	66	57				

RAINFALL.

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON 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 — Wind mainly between South and South-East, light or moderate; much cloud, some rain, mist locally; cool.

2 a, b, 3 — Wind mainly between West and North, light or moderate; changeable, some showers, considerable fair intervals; cool.

4 a, b, 5 — Same as Nos. 0 and 1.

6 a, b, 7 — Wind backing towards South, light or moderate; changeable, some rain, mist or fog on coast; cool.

8 a, b, 9 — Southerly or South-Westerly winds, light or moderate, much cloud, some rain, mist locally; cool.

10 a, b, 11 — North-Westerly to South-Westerly winds, light or moderate; sea moderate; changeable, some mist or fog.

Western Channel and Bay

FURTHER OUTLOOK.

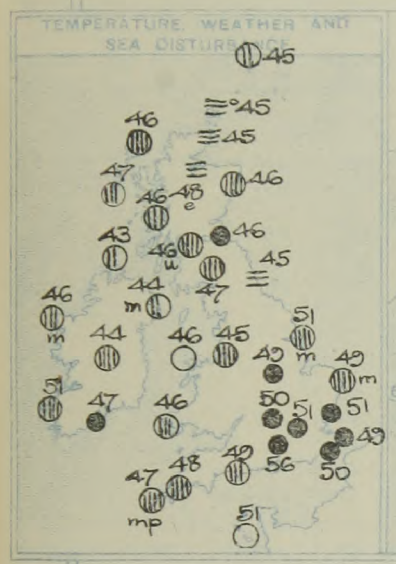
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 13TH MAY, 1916.

GENERAL INFERENCE.

There are no indications of any important change in the general conditions. The wind over eastern England will veer temporarily as the shallow depression reaches the North Sea.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Normal Temperature of the Sea.
Below 40 | 40-50 | 50-60 | Above 60
Scale of Time for MAY.

1025mb HIGH 30.27in
1020mb 30.12in
1015mb
1010mb
1020mb
1010mb LOW 29.83in
1010mb LOW 29.83in
1015mb
HIGH
LOW
Barometer falling slightly
Barometer rising slightly
30.12in
29.97in
29.97in
32°
40°
50°
50°

Issue No. 19896

DAILY WEATHER REPORT.

Saturday, 13th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	13th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	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.	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	1016·2	27	ENE	4	c	1019·3	+2	25	.	ENE	4	*	bc	*	–	*	21
Gorki	?	50	–	0	b	1003·8	-3	48	0	SSW	1	*	0	*	–	*	48
Veliki Luki ...	.	.	.	.	.	1003·1	*	50		S	1	*	r	*	1	*	50
Hangö	1009·9	32	ENE	2	s	1009·3	0	28	-11	NNE	4	*	s	*	?	*	25
Riga	1008·3	48	–	0	0	1002·7	0	41	-9	NW	2	*	r	*	3	*	41
Petrograd	1008·3	32	ENE	4	r	1006·4	-2	34	0	E	4	–	s	*	6	36	32
Moscow	1007·7	55	WSW	3	b	1009·7	+3	52	+2	SSE	1	*	b	*	–	*	46
Kiev	1010·7	55	–	0	0	1007·1	-3	50	0	NE	2	*	r	*	6	*	50
Kharkov	1013·5	56	NNE	1	b	1010·1	-2	57	.	SE	1	*	0	*	–	*	52
Kishinev	1010·1	57	SE	3	0	1004·4	-3	57	.	NE	1	*	r	*	6	*	52
Elisabetgrad ...	1010·0	59	SSE	3	0	1006·0	-2	55	+3	SE	2	*	r	*	–	*	48
Nicolaiev	1011·0	63	SW	2	c	1004·3	*	59	+4	ENE	4	*	c	0	2	*	54
Odessa	1010·0	59	SSE	3	0	1003·1	-4	59	+4	SE	4	*	0	0	–	*	55
Tarkhankout ...	.	.	.	.	.	1004·7	*	59	0	SE	4	*	0	0	1	*	55
Soukhoum	1014·0	59	–	0	b	1010·9	+2	61	+2	–	0	*	0	*	–	*	57

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	F.			Hr.
Scotland.	Oban	1	52	45	r	0	0·0
	Banff	–	54	41	c	bc	4·2
	St. Andrews	–	55	44	*	*	0·1
	Carnoustie	0·2	50	45	0	0	0·0
Eng. N.E.	Harrogate	1	57	46	m.o.c	op	0·0
	Skegness	–	57	49	o.bc	bc 0	2·4
Eng., N.W.	Morecambe	6	58	48	c.od	b	1·1
	Blackpool						
	Southport	9	57	44	o,r	r	0·0
Midlands.	Buxton						
	Leamington Spa	5	59	48	o.c	o.p	0·3
	Malvern						
	Ross-on-Wye	7	59	41	c	omr	0·3
Wales.	Rhyl	6	58	42	r	r	0·0
	Colwyn Bay	6	57	50	r.bc	bcp	0·0
	Llandudno	4	58	46	p	p	0·0
	Aberystwyth	3	55	50	r.o	o.r	0·0
	Tenby	18	52	49	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	0·1	53	47	o	o.c	0·0
	Felixstowe	0·1	57	51	bc	bc.o	3·5
	Walton-on-Naze	0·2	58	50	bc	bcm.bc	3·2
	Southend-on-Sea	–	62	50	o	o	0·1
England, S.E.	Margate	–	61	49	c	c	1·4
	Ramsgate	–	59	49	bc	bc	1·5
	Hastings	–	57	50	f.bc	o.bc	2·2
	Eastbourne	–	58	49	bc.o	o.bc	2·0
	Seaford	–	57	49	c	o	0·5
	Brighton	–	55	50	o.c.o	o	0·9
	Worthing	–	57	50	bc	c.o	1·7
	Littlehampton	–	55	50	o.bc	o	1·0
	Bognor	–	59	54	fc	bc	1·1
	Bournemouth	2	59	50	bc	c.or	0·1
England, S.W.	Weymouth	1	56	49	cp.o	op.c	0·0
	Torquay	4	56	51	or	qc	0·8
	Paignton	4	58	49	od	c	1·0
	Penzance						
	Newquay	*	56	50	or	op.d	0·2
	Bude	–	50	45	od p	o	6·5
	Ilfracombe						
	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.) ...	74	92	0·2	65	49	47	8	o	o	o.c
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	86	0·5	63	50	51	7	bc	c.o	o.or
Camden Sq. (Brit. Rainfall)	66	79	0·4	65	50	49	8	o	o	*
Hampstead (Reservoir) ...	*	94	0·6	60	47	42	8	c.op	c.or	or.c
Richmond Park ...	*	*	0·3							
Kew. (See front page.)	*	*	0·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	66	81	0·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
784 Joules	14·2 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.								*
Darwen to 9 p.m.	6	56	46	40	our	our	or	0·0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	63	51	43	o.c	c.o	o	*

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

13th & 14th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·2 4·0	11.49 11.49	7.36 7.38
Greenwich	4.13 4.12	11.56 11.56	7.39 7.40
Wick	3.52 3.50	12.8 12.8	8.25 8.27
Valencia	4.52 4.50	12.37 12.37	8.22 8.24

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 60° or above in several English localities. Showers fell very generally, and thunder was heard at Dungeness. Very little bright sunshine was recorded.

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

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§ 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. 135. 14th MAY.

1 Sunday.

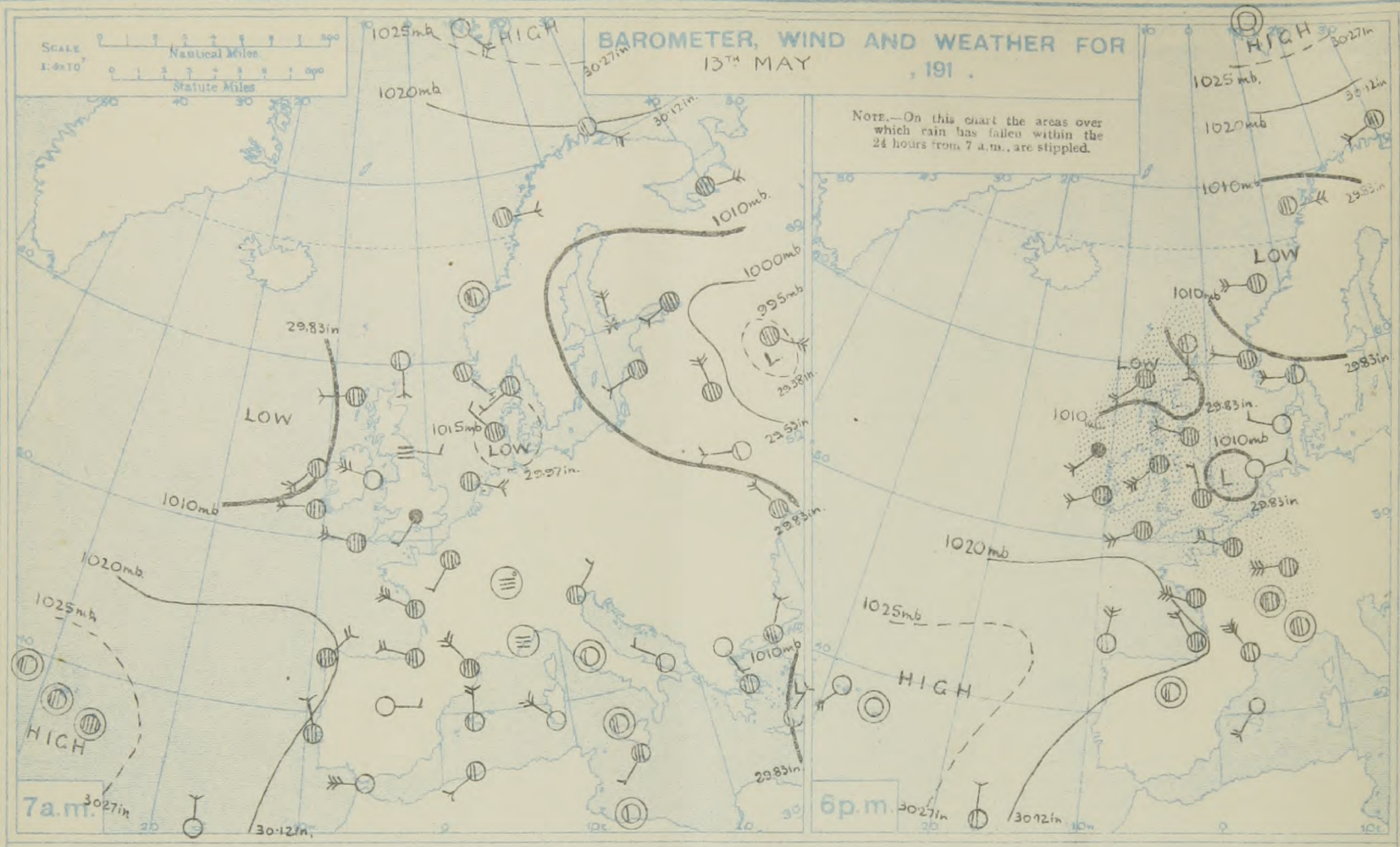
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
BRITISH ISLANDS.	Lerwick ...	1011·2	47	S	2	bcm	1004·1	−½	46	+1	WNW	3	–	o	2	0·2	49	39	bc	bcm	om	*
	Deerness (Orkney)	1008·8	46	SW	2	f	1004·7	*	45	0	SW	2	–	o	2	1	48	42	m.f.c	c m f	f.d.o	1·5
	Stornoway ...	1009·8	48	SW	3	o	1004·1	−3	45	−1	SSE	3	–	o	3	1	52	37	od.b	o.c.o	b.od p	2·8
	Castlebay (Barra Isd.)	1010·3	49	SW	4	bc	1002·4	−7	46	−1	SE	4	–	r	4	8	49	43	c.or	r.o.bc	bc.b.or	3·3
	Glasgow ...	1011·2	49	W	3	c	1007·6	−3	45	−1	SW	1	–	omr	*	1	53	41	omd p.o	o.c bc.c	bc.b.or	0·9
	Eskdalemuir ...	1011·1	49	W	1	cv	1009·1	−1	42	−5	SSW	3	–	od	*	0·3	54	35	o od.o	o.op.ev	c.b bc od	0·9
	Malin Head ...	1011·4	51	NW	3	bcm	1004·1	−5	46	+3	SW	5	–	omrq	4	3	54	41	cmd	bcm	omrq	7·9
	Blacksod Point	1013·0	49	SW	3	cmd	1006·2	−1	49	+3	W	5	–	ome	4	4	53	44	bm	cm	c.mr	*
	Valencia ...	1016·3	52	WSW	3	o	1011·5	0	52	+1	SSW	3	–	omp	3	3	53	47	o.c.o	o.c.o	or.o.op	0·6
	Roche's Point	1016·0	53	NW	3	o	1013·6	*	50	+3	SW	2	–	r	3	3	57	47	d.f o	o	or	*
	Birr Castle ...	1014·2	51	W	2	o	1009·4	*	49	+5	SSW	1	–	r	*	4	59	43	od.r.c	c.o	o.od.r	3·6
	Donaghadee ...	1011·6	52	NW	2	cm	1008·1	−5	46	+2	SW	3	–	omr	2	2	52	44	og mp	omr cm	bc.ogm	*
	Liverpool (Bidston)	1012·8	48	W	3	bc	1011·6	o	46	+1	W	1	W	r	2	1	52	45	o.bc	bc	op	5·6
	Holyhead ...	1012·9	49	SW	5	om	1011·1	−2	47	+1	SW	4	–	og	3	1	53	46	b bc.c.o	op dm	cf.op d	6·4
	Pembroke (St. Ann's)	1015·0	48	WNW	2	f	1015·6	o	47	+1	WSW	2	–	or	2	–	50	46	c	op d	o	0·1
	Scilly (St. Mary's)	1016·2	50	WSW	4	om	1015·8	o	49	+2	SW	3	W	om	4	1	53	46	omd	om	omp	0·0
	Falmouth ...	1014·8	51	NW	2	om	1016·2	o	49	+1	W	2	–	o	*	–	53	47	o	o.c o	o.c.o	0·0
	Jersey (St. Aubin)	1016·6	51	W	4	o	1015·6	*	51	o	WNW	4	–	c	3	0·3	54	49	b bc o	o bc.c.o	od.o.c	5·5
	Portland Bill ...	1013·8	51	WNW	4	o	1014·4	+1	50	+1	NW	4	NW	c	4	–	54	48	c.bc	bc.c	c.o	*
	Dungeness ...	1010·7	52	NW	3	o	1012·2	+1	49	−1	NW	3	NW	bc	3	11	53	45	or	g r.o	op.bc	*
	Dover	1010·6	49	NW	5	o	1012·0	+1	48	−1	NW	4	NW	o	2	13	53	44	obd	obd	o	0·0
	Wick	1009·5	47	NW	2	m	1005·5	−3	46	+1	WNW	2	–	bc	1	2	49	37	fe.omg	g.omd	r.o.bc	*
	Nairn	1009·5	48	–	o	odu	1005·2	*	48	o	–	o	–	bc	1	5	50	39	mprg	pd go	d cg	0·0
	Aberdeen ...	1009·5	46	SSE	1	odm	1006·5	−1	49	+3	W	1	W	b	2	2	49	40	o	od.rm	od rm.b	0·0
	Leith	1010·4	52	WSW	1	c	1007·6	−3	46	o	WSW	1	–	r	2	2	?	45	r	r.oe.c	c.bc od	*
	Tynemouth ...	1010·1	51	WNW	1	omq	1009·2	−1	46	+1	WNW	2	NW	cm	2	1	51	43	f	f	cm	*
	Spurn Head ...	1010·4	51	SE	1	o	1011·0	o	50	−1	WNW	5	–	bcq	4	6	53	45	bc.f	op	or	0·6
	Yarmouth ...	1009·2	51	S	2	c	1010·6	+1	48	−1	NNW	3	–	om	2	3	55	47	cm	cm	bc.om	2·2
	Clacton-on-Sea	1009·7	52	S	2	o	1011·6	+1	47	−4	WNW	3	NW	o	2	12	56	45	ogr.v	ogvp	ogm.o	0·0
	Nottingham ...	1011·4	50	NW	1	o	1011·3	*	50	+1	W	2	W	bc	*	2	52	40	r d.om	opm	o.c	0·0
	Benson (Oxon.) ...	1011·4	54	NW	2	c	1013·1	o	45	−5	WNW	1	–	c	*	0·2	56	39	o	c	bc.c	*
	Sth Farnborough	1011·1	56	NW	1	o	1013·0	+1	50	o	WNW	2	NW	c	*	3	58	41	r.o	o.bc	bc	0·7
	London (Kew Obsy.)	1011·7	53	NNW	1	o	1013·1	+1	48	−3	WNW	1	–	o	*	1	56	43	or.m.o	op.o	o od.o	0·0
NORTHERN EUROPE.	Spitsbergen ...	1027·1	23	–	o	b	1026·4	o	14	−14	SE	1	*	b	*	*	32	1				
	Vardö	1015·5	30	SE	3	c	1011·5	−4	30	+5	E	3	–	s	4	*	30	21				
	Bodö	1005·0	41	E	4	c	999·3	−1	41	+5	E	2	–	bc	2	–	41	34				
	Christiansund	1007·9	43	W	4	c	999·5	−4	45	o	SW	4	–	o	4	–	46	43				
	Skudesnaes ..	1010·3	46	WNW	2	o	1005·9	−1	46	o	E	1	–	o	1	–	48	39				
	Færder (Xtania Fjord)																					
	The Scaw (Skagen)	1010·9	45	W	3	bc	1007·7	o	48	+7	WSW	4	SW	bc	4	–	48	41				
	Blaavands Huk	1013·5	52	WNW	1	b	1010·0	o	52	+4	SSW	2	W	c	2	–	52	37				
FRANCE, &c.	The Helder ...	1009·9	55	ENE	2	b	1008·8	o	52	+2	–	o	–	b	o	–	57	46				
	C. Gris Nez ...	1010·1	50	W	4	o	?	+1	46	−4	WNW	4	*	o	4	8	54	46				
	La Hève	1014·3	45	NW	5	c	1015·9	*	49	+1	NW	3	*	m	4	–	57	48				
	Brest (St. Mathieu)	1018·3	51	WSW	4	f	1018·4	+1	51	−1	NW	4	*	o	3	–	57	50				
	Rochefort (Ile d'Aix)	1019·3	54	WNW	6	o	1018·6	+1	54	+2	NW	5	*	o	*	–	73	52				
	Biarritz	1021·6	57	NW	3	o	1021·3	+1	53	−3	NW	3	*	f	2	–	61	52				
	Paris	1013·3	52	WNW	3	o	1014·1	+2	50	−4	W	2	–	o	*	1	61	46				
	Belfort	1013·0	50	W	6	o	1016·3	*	45	−9	W	2	*	o	*	5	67	42				
	Lyons	1014·3	57	–	o	o	1017·7	*	47	–	NNE	1	*	o	*	4	66	46				
	Nice	1011·4	55	–	o	c	1009·5	?	55	+1	–	o	*	c	1	1	63	50				
	Perpignan ..	1015·9	63	NW	5	c	1017·1	o	55	−4	NW	1	N	o	*	–	72	54				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1023·5	57	NNE	4	bc	1024·4	o	54	−1	NW	1	–	o	1	–	57	50				
	Madrid (8 a.m.)	1015·0	68	–	o	bc	1019·1	+2	57	+2	–	o	–	b	*	–	72	48				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1026·7	*	SW	4	b	1025·2	o	60	+1	SW	1	*	bc	1	–	70	59				
	Madeira (Funchal)	1023·3	64	N	2	bc	1022·1	o	57	o	NE	2	*	bc	2	–	64	57				
	Gibraltar							*														
	Malta (8 a.m.) ...	*	*	*	*	*	1010·3	+1	64	o	–	o	–	bc	o	–	68	59				
	Limassol (6 a.m.)	*	*	*	*	*	1008·8	o	90	+13	E	3	–	b	3	–	90	64				
	Alexandria (6 a.m.)	1007·8	81	–	o	c	1009·1	+2	73	−4	–	o	W	c	o	–	101	70				
	Cairo (Helwan) (6 a.m.)	1007·5	93	–	o	c	1008·4	+2	88	+11	–	o	NW	bc	o	–	104	79				
	YESTERDAY'S REPORTS	12 N. ....., 8 P.M. G.M.T.					13 N. ....., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1011·9	o	61	+2	NE	1	*	c	3	–	66	57				
	Turin						1011·4	o	66	+9	–	o	*	b	*	3	68	55				
	Pesaro						1011·1	o	84	+1	SSW	1	*	m	2	2	*	*				
	Leghorn						1012·7	o	64	o	–	o	*	b	1	–	68	57				
	Rome						1012·7	o	64	+1	–	o	*	b	*	–	75	54				
	Viesti						1013·7	o	66	o	–	o	*	b	1	–	70	57				
	Brindisi						1012·4	o	63	o	NW	1	*	b	3	–	72	61				
	Cagliari						1012·9	o	57	o	NW	4	*	b	4	–	75	48				
	Palermo						1013·2	o	64	−2	–	o	*	bc	1	–	72	52				
	Tripoli						1011·6	+2	66	o	–	o	*	b	1	–	72	57				
	Algiers	1013·1	63	–	o	b	1014·7	+2	63	+4	SW	2	*	bc	2	–	72	57				

RAINFALL.

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON 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) } South-Westerly and Southerly winds, moderate to fresh or strong; rain at times, some mist; cool.

1 } Wind backing to South-West or South, increasing in force; much cloud, some rain and mist; cool.

2 (a, b)

3 } Wind backing to West or South-West, light or

4 (a, b) } moderate; mostly fair to-day, unsettled later; rather

5 } cool.

6 (a, b)

7 (a, b) } Wind mainly between South and West, moderate,

8 (a, b) } fresh or strong locally; rain at times, some mist or fog

9 (a, b) } on coast; rather cool.

10 (a, b)

Western Channel and Bay 11 } South-Westerly winds, moderate or light; sea moderate; cloudy or overcast; some rain, mist or fog locally.

FURTHER OUTLOOK.

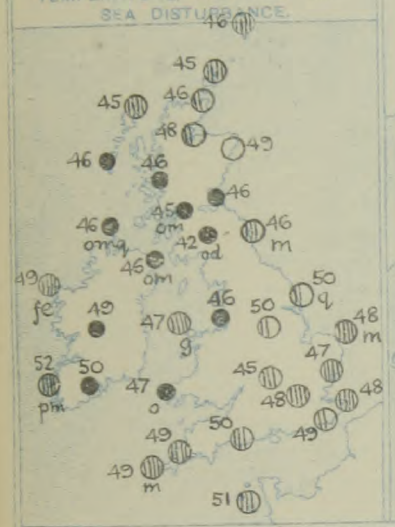
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 14TH MAY, 1916.

GENERAL INFERENCE.

The depression to the north-westward of these islands seems likely to move north-eastwards.

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. ⓪ overcast sky ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder ⊼ thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈

HIGH 1025mb 30·27in. 30·12in. 29·97in. 29·83in. 29·68in. 1020mb 1015mb 1010mb 1005mb 1000mb

LOW. falling Barometer generally

1000mb 1005mb 1010mb 1015mb 1020mb 1025mb 50° 60°

rising slightly

LOW 1010mb 29·83in. 29·97in. 30·12in. 29·68in. 29·53in.

HIGH 1025mb

Normal Temperature of the Sea

Below 40° | 41°-50° | 50°-60° | Above 60°

Scale of Tints for MAY.

Issue No. 19.897

DAILY WEATHER REPORT.

Sunday 14th May, 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	1018·0	36	ENE	4	bc	1015·3	+3	30	+5	ESE	4	*	0	0	–	*	28
Gorki						1003·9	+3	37	-11	N	4	*	0	*	1	*	37
Veliki Luki ...	1004·3	46	SSW	2	c	1005·6	*	32	-18	WSW	3	*	0	*	30	*	*
Hangö	1008·0	32	NNE	2	s	1005·6	0	30	+2	N	4	*	3	4	?	*	28
Riga	1008·3	36	WNW	4	o	1006·7	-1	36	-5	WSW	2	*	0	0	–	*	32
Petrograd	1005·2	36	NE	3	o	1002·7	0	37	+3	WSW	2	–	0	*	5	39	34
Moscow	1006·0	52	NNE	2	o	999·7	-7	57	+5	SE	4	*	0	*	6	*	52
Kiev	1005·1	50	NW	3	o	1008·0	+3	48	-2	WNW	2	*	b	*	19	*	41
Kharkov	1004·2	63	S	2	o	1003·4	+2	54	-3	NW	2	*	r	*	4	*	52
Kishinev	1009·6	52	NW	2	b	1013·0	+3	50	-7	NW	2	*	0	*	5	*	45
Elisabetgrad ...	1003·4	54	NNW	3	r	1008·7	+4	50	-5	NW	3	*	b	*	19	*	46
Nicolaiev	1004·3	59	WNW	5	r	1009·9	*	54	-5	NW	3	*	b	*	–	*	48
Odessa	1006·7	67	N	4	o	1011·5	+4	52	-7	NNW	3	*	0	*	1	*	46
Tarkhankout ...	1007·8	59	SE	4	o	1010·7	*	57	-2	NW	4	*	bc	*	–	*	55
Soukhoum	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

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	6	50	44	o	o	1·0
	Banff	1	53	47	c.or	r	0·7
	St. Andrews	*	*	*	*	*	
	Carnoustie	7	48	43	r	r	0·0
Eng. N.E.	Harrogate	5	52	47	op.c	o	0·0
	Skegness	10	54	49	og	ogp	0·1
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	6	52	46	c	c	7·9
Midlands.	Buxton	7	51	44	or	o	0·3
	Leamington Spa	6	54	48	o.c	o.c	0·0
	Malvern						
	Ross-on-Wye	2	52	45	cm.bc	bc.b	3·9
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	3	54	45	b.c	c	6·0
	Aberystwyth	4	51	47	r.o.c	c.b.o.	7·7
	Tenby	1	53	41	bc.c	r	0·9

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	20	54	50	or	og	0·0
	Walton-on-Naze	23	54	49	or.c	od.c.cm	0·0
	Southend-on-Sea	6	54	49	od	or	0·0
England, S.E.	Margate	24	61	49	r	r	0·3
	Ramsgate	24	53	47	r	r	0·0
	Hastings	15	54	49	or.c	or.o	0·1
	Eastbourne	5	57	50	bc.o	o	1·0
	Seaford	4	56	50	c	p	1·0
	Brighton						
	Worthing	1	58	50	cr.c	bc.c	0·4
	Littlehampton	2	59	51	o.bc	o	0·7
	Bognor	1	59	46	bc.r	bc	1·8
	Bournemouth	–	60	46	bc	b.bc	7·0
England, S.W.	Weymouth						
	Torquay	–	57	44	bc.c.o	c.o	2·1
	Paignton	0·3	57	43	bc.c	c.od.o	1·8
	Penzance	1	53	46	cm	cr	0·0
	Newquay	*					
	Bude						
	Ilfracombe						
	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 0 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	83	73	0·0	56	42	35	2	or	or	or.o.c
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	54	75	0·1	56	42	40	1	or.o	or.o	c
Camden Sq. (Brit. Rainfall)	81	66	0·1	58	41	40	1	o	o.od	*
Hampstead (Reservoir) ...	*	73	0·0	53	39	29	1	od	c.or	or.bc
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	81	65	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
448 Joules	8·1 Milliwatts.	41 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2	55	41	38	bc	c.or	cp.or	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	1	54	46	41	r.o	o	o.c	0·5
Oxford to 9 p.m.	*	57	48	42	or.o	o	o.c	*
Teignmouth to 9 ,,								
Plymouth ,,	0·2	55	44	–	bcvq	or	oqfq	0·5
S. Kensington (Museum Grounds to 6 p.m.)	5	56	50	50	o.or	or.o	o.od	*

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

14th & 15th May. 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	4.0 / 3.59	11.49 / 11.49	7.38 / 7.39
Greenwich	4.12 / 4.10	11.56 / 11.56	7.46 / 7.47
Wick	3.50 / 3.48	12.8 / 12.8	8.27 / 8.29
Valencia	4.50 / 4.48	12.27 / 12.27	8.24 / 8.25

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

Heights in Kilometres	Falmouth 8th. Comp. to E.	Falmouth 8th. Comp. to N. Noon.	Eskdalemuir 10th 7.30a.m. Comp. to E	Eskdalemuir 10th 7.30a.m. Comp. to N.
2·5			+5	-4
2·0			+4	-0
1·5			+4	+3
1·0	+10	-2	+4	-1
·5	+4	0	+3	-3
0	-	-	+2	-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. 136. 15th May.

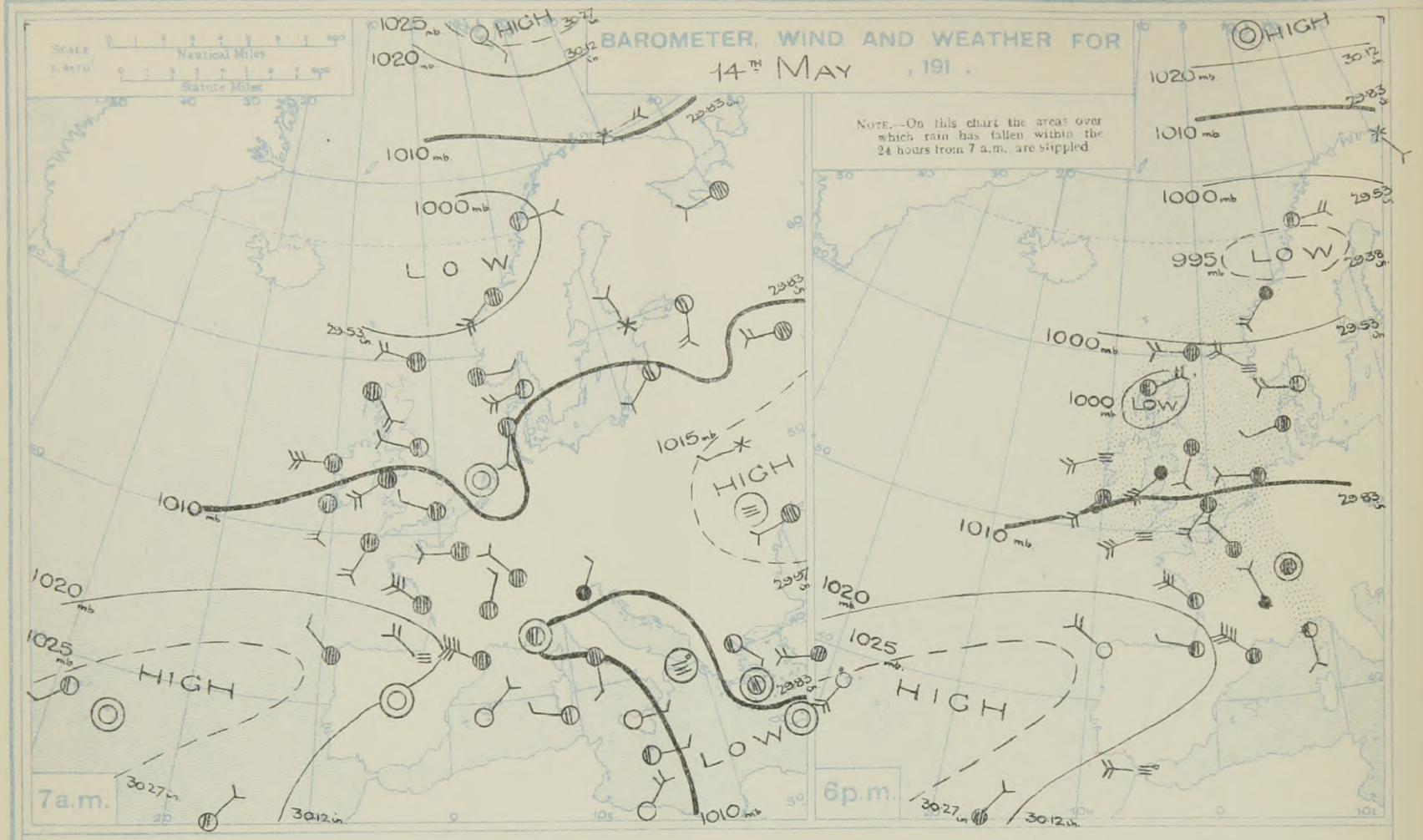
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars 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, ¼
BRITISH ISLANDS.	Lerwick ...	1000·3	48	W	3	0	999·8	0	42	-4	N	2	–	o	2	2	51	39	o.c	c . o	op	
	Deerness (Orkney)	1000·0	48	SE	1	b	999·0	*	43	-2	N	3	-	o	2	–	53	43	o . c	c.bc.b	b.bc.c.o	9·8
	Stornoway ...	999·9	49	ENE	3	c	1001·1	+2	47	+2	NW	3	–	bc	3	0·3	53	44	odp.bc	bc.c	odp.bc.	3·1
	Castlebay (Barra Isd.)	999·5	49	NW	3	bc	1002·1	+2	47	+1	NW	3	NW	bc	3	9	52	44	r.o.c	c.op.bc	by.bc	2·4
	Glasgow ...	1001·1	49	W	2	omd	1000·8	+4	48	+3	W	4	NW	bc	*	11	50	45	omr	omr	omp.bc	0·0
	Eskdalemuir ...	1001·0	49	SW	5	or	1000·9	+3	47	+5	WNW	4	–	c	*	14	50	42	od. or	odm or	or.o.c	0·0
	Malin Head ...	1001·7	49	SW	6	fd	1003·2	+3	48	+2	WNW	4	NW	em	3	6	52	45	omr	fd	em	0·0
	Blacksod Point	1004·0	49	WSW	4	ofd	1008·7	+4	48	-1	NW	4	NW	bc	3	5	50	45	ofr	ofd	ofd.cm	*
	Valencia ...	1009·9	53	SW	4	o	1013·2	+5	50	-2	WNW	4	W	bc	3	1	55	48	om	om	o.om.o.c	0·0
	Roche's Point	1011·3	57	SW	3	o	1011·2	*	51	+1	NNW	4	NW	bc	3	1	60	50	r.om	om.f	o.c.bc	*
	Birr Castle ...	1006·8	54	SW	1	r	1010·5	*	48	-1	W	2	W	c	*	3	54	47	or	or	or.c	0·0
	Donaghadee ...	1003·0	55	W	4	omr	1004·5	+6	48	+2	NW	3	NW	em	3	3	57	46	ogm	ogmp	ogmp	*
	Liverpool (Bidston)	1006·0	53	SW	4	r	1003·4	+5	48	+2	W	4	W	o	3	4	56	46	od	or	o	0·3
	Holyhead ...	1006·6	49	SW	5	orf	1005·3	+5	49	+2	WNW	6	NW	bcq	5	4	52	47	ofe.p	orf	fd.r.c	0·0
	Pembroke (St. Ann's)	1010·5	50	W	4	f	1008·2	+2	49	+2	WNW	5	NW	cq	?	2	53	?	fr	fr	f	0·0
	Scilly (St. Mary's)	1013·8	52	WSW	5	fe	1012·4	+3	50	+1	WNW	7	W	omq	6	1	53	47	om f	of	fe.omq	0·0
	Falmouth ...	1013·3	54	W	4	odm	1011·1	+1	52	+3	WNW	7	–	c	*	1	54	49	od	d.o.d.op	oq.cq	0·0
	Jersey (St. Aubin)	1016·2	51	WSW	3	o	1012·5	*	52	+1	W	5	–	c	4	2	55	48	c o	ogr. o	p.of	0·5
	Portland Bill ...	1012·2	49	WSW	5	or	1007·9	-2	48	-2	W	5	W	c	3	1	51	48	c	c . or	orf.	*
	Dungeness ...	1011·7	51	WSW	4	o	1005·5	-3	51	+2	WSW	7	-	opq	6	3	53	48	bc	bc . op	opp	*
	Dover	1011·4	53	SW	3	o	1005·1	?	52	+4	SW	5	SW	o	6	1	58	48	c.bc	c . o	op.r.d.e	2·5
	Wick	1000·0	47	-	o	c	999·0	+2	45	-1	NW	1	NW	c	1	1	50	44	bc	bc.c	omp.cq	*
	Nairn	999·1	50	E	2	c	1000·1	*	46	-2	-	o	-	cu	1	2	57	44	bc.d.c	dq.c.	cp.r	4·1
	Aberdeen ...	1000·0	48	S	2	o	997·9	+2	49	-1	NW	4	NW	c	2	1	55	46	bc . o	od p	o.c.op.c	4·9
	Leith	1001·2	52	W	1	c	999·5	+1	51	+5	W	2	W	c	3	5	53	45	r	r.o.c	c.op.c	*
	Tynemouth ...	1001·8	51	SW	2	om	998·6	0	52	+6	W	2	NW	c	2	3	53	46	omr	omp	cmp	*
	Spurn Head ...	1006·9	52	WSW	5	oq	999·9	-1	53	+3	W	3	-	omr	4	2	56	48	cq	c.oq	or	3·6
	Yarmouth ...	1009·0	54	WSW	3	c	1001·3	-3	54	+6	W	4	-	cmp	3	4	57	47	bcm	bc.c	c.omr	2·4
	Clacton-on-Sea	1010·3	55	SW	2	o	1003·5	-2	55	+8	SW	4	–	o	3	–	58	47	og.c.o	og	ogpd.	3·4
	Nottingham ...	1007·3	53	WSW	2	o	1002·3	*	54	+4	W	3	W	md	*	2	54	49	op.o	o	o	1·4
	Benson (Oxon.) ...	1010·2	52	SW	4	o	1004·9	-1	54	+9	W	4	–	o	*	1	56	51	o	o	o.op	*
	Sth Farnborough	1011·0	52	SW	4	r	1003·2	o	56	+6	WSW	4	-	o	*	1	58	49	c.o	or.o	or.o	1·3
	London (Kew Obsy.)	1011·0	54	SW	3	o	1003·2	-2	55	+7	WSW	4	-	o	*	2	58	47	o.c.o	o	o.od.r.o	3·3
NORTHERN EUROPE.	Spitsbergen ...	1023·5	21	-	o	b	1020·6	-2	9	-5	-	o	*	b	*	*	27	-2				
	Vardö	1004·4	28	SE	2	s	1005·2	o	34	+4	SW	1	-	o	2	*	34	23				
	Bodö	995·6	45	E	3	c	995·1	o	46	+5	E	1	-	c	1	-	46	39				
	Christiansund	997·0	43	SW	3	r	996·2	o	41	-4	NW	4	-	r	4	4	46	37				
	Skudesnaes ..	1001·5	45	NW	4	f	998·3	-1	46	o	NE	2	-	c	3	-	46	43				
	Færder (Xtiania Fjord)																					
	The Scaw (Skagen)	1006·6	50	W	3	bc	1002·5	-2	46	-2	SW	1	–	o	1	Trace	55	41				
	Blaavands Huk	1007·3	50	WSW	1	o	1000·4	-5	48	-4	SSW	4	–	r	3	2	55	45				
FRANCE, &c.	The Helder ...	1009·3	50	W	2	o	1001·6	-4	52	o	SSW	5	–	r	3	4	55	50				
	C. Gris Nez ...	1011·9	50	SW	3	o	1005·9	-2	50	+4	SW	6	*	r	5	4	52	48				
	La Hève	?	51	W	4	o	1011·0	*	51	+2	WSW	4	*	o	4	3	62	49				
	Brest (St. Mathieu)	1016·7	54	W	4	f	1015·9	o	53	+2	W	4	*	m	3	-	59	51				
	Rochefort (Ile d'Aix)	1019·4	55	NW	5	c	1018·6	o	55	+1	W	4	*	o	*	1	59	54				
	Biarritz	1022·1	57	WNW	3	c	1021·5	o	55	+2	WSW	3	*	o	2	–	57	53				
	Paris	1014·9	57	WNW	2	o	1012·6	o	52	+2	SSW	2	–	o	*	4	61	50				
	Belfort	1017·2	48	–	o	o	1017·1	*	48	+3	WSW	4	*	r	*	1	53	45				
	Lyons	1016·8	52	NNW	2	r	1017·7	*	51	+4	NW	1	*	o	*	–	61	47				
	Nice	1009·1	57	S	2	bc	1012·6	+3	59	+4	–	o	*	b	2	+	64	50				
	Perpignan ...	1015·4	61	NW	1	o	1017·7	o	59	+4	NW	5	NW	c	*	–	68	54				
	Sanguinaire ...	*	66	NW	3	m	*	*	61		NW	2	*	m	5	–	70	55				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1024·4	59	NW	3	b	1022·3	o	57	+3	NE	3	–	o	1	-	61	52				
	Madrid (8 a.m.)														*							
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1025·2	*	SW	4	b	1021·5	+1	63	+3	SW	5	*	o	2	–	70	60				
	Madeira (Funchal)	1021·7	63	NE	2	o	1016·9	o	59	+2	NE	2	-	o	2	–	64	57				
	Gibraltar	1016·6	66	W	4	m	1014·9	*	60		-	o	*	m	1	-	70	58				
	Malta (8 a.m.) ..	*	*	*	*	*	1009·6	+2	63	-1	NW	3	-	o	2	–	70	59				
	Limassol (6 a.m.)	*	*	*	*	*	1008·2	o	82	-8	ESE	1	-	b	3	-	93	63				
	Alexandria (6 a.m.)	1010·4	70	–	o	o	1009·5	+1	73	o	–	o	–	b	o	-	82	70				
	Cairo (Helwan) 6 a.m.	1008·3	91	NE	4	c	1009·0	+2	82	-6	NW	1	E	b	o	-	108	73				
	YESTERDAY'S REPORTS	13th, 8 P.M. G.M.T.					14th, 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1010·6	0	54	-7	–	o	*	r	3	5	68	57				
	Turin						1010·2	+2	55	-11	-	o	*	o	*	15	66	52				
	Pesaro						1009·7	o	61	-3	W	1	*	o	3	5	72	55				
	Leghorn						1010·0	o	59	-5	–	o	*	o	1	1	68	57				
	Rome						1010·6	o	64	o	-	o	*	o	*	–	72	55				
	Viesti						1009·9	o	66	o	SW	1	*	b	2	–	70	52				
	Brindisi						1009·5	o	61	-2	–	o	*	m	1	–	66	57				
	Cagliari						1012·1	o	59	+2	NW	1	*	bc	3	-	75	50				
	Palermo						1011·3	o	59	-5	–	o	*	b	1	-	70	52				
	Tripoli						1008·4	o	66	o	NE	3	*	b	4	–	68	63				
	Algiers												*									

RAINFALL.

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 {a b} 1 2 {a b} 3 4 {a b} 5 — North-Westerly winds, moderate, fresh or strong at times; changeable, some showers; cool.

6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} — North-Westerly winds, moderate or fresh, strong at times; mostly fair, some showers; cool.

11 — North-Westerly winds, strong to moderate; sea rough; some showers, fair intervals.

FURTHER OUTLOOK.

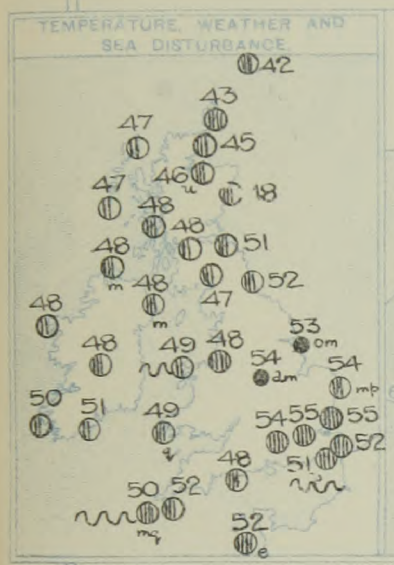
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 15TH MAY, 1916.

GENERAL INFERENCE.

The North Sea depression

will move east or north-east.



EXPLANATION.

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

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

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

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

WEATHER.—Shown by the following symbols :—

◯ clear sky. ◐ sky ½ clouded. ◔ sky ¼ clouded, ◍ sky ¾ clouded. ◍ overcast sky. ● rain falling.

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

Normal Temperature of the Sea.

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

Scale of Tints for MAY.

HIGH 1020 mb

LOW 995 mb

1000 mb

1005 mb

1010 mb

1015 mb

Barometer rising

Barometer falling

30·12 in

29·97 in

29·83 in

29·68 in

29·53 in

29·38 in

50°

60°

Issue No. 19898

DAILY WEATHER REPORT.

Monday, 15th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	13th... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	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.	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	1002.4	32	E	2	r	1001.3	+2	34		W	2	*	o	*	–	*	32
Gorki	.	.	.	.	.	1011.7	+3	36	-1	W	2	*	o	*	–	*	30
Veliki Luki ...	.	.	.	.	.	1011.7	*	36	.	S	2	*	o	*	–	*	30
Hangö	1005.1	34	NNW	2	s	1005.9	+1	36	+6	NNW	2	*	s	*	1	*	28
Riga	1009.2	34	W	4	s	1010.1	o	39	+3	SW	2	*	bc	o	3	*	32
Petrograd	1003.8	43	SSW	2	o	1005.8	+2	36	-1	SSW	3	–	bc	*	–	45	34
Moscow	1007.1	48	WNW	2	c	1010.4	+2	41	-16	WNW	3	*	o	*	1	*	41
Kiev	1014.7	45	WNW	3	c	1013.3	+3	37	-11	W	1	*	s	*	–	*	36
Kharkov	1013.2	54	WNW	2	b	1017.5	+3	46		–	o	*	o	*	–	*	39
Kishinev	1015.3	52	N	1	r	1018.7	+2	48	-2	–	o	*	f	*	11	*	?
Elisabetgrad ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Nicolaiev	1014.7	59	SW	2	bc	1016.7	*	57	+3	–	o	*	bc	*	–	*	48
Odessa	1015.5	57	SW	3	b	1016.7	+1	55	+3	W	2	*	o	o	–	*	52
Tarkhankout ...	1016.4	55	W	2	b	1017.5	*	59	+2	–	o	*	b	o	–	*	57
Soukhoum	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.

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	52	45	r	o.c	1.1
	Banff	3	57	40	bc	c	5.2
	St. Andrews				*	*	
	Carnoustie	6	47	45	r	r	1.4
Eng. N.E.	Harrogate	-	51	40	o.c	o	1.6
	Skegness	.5	58	42	bc.og	og	5.6
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	3	52	45	o	or	0.0
Midlands.	Buxton	Trace	49	41	or	o	0.3
	Leamington Spa	-	55	40	10.c	o.c.	0.3
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	1	55	43	r	r	0.0
	Colwyn Bay	2	56	46	bc	op	0.5
	Llandudno	4	55	47	c.cp	p.	0.1
	Aberystwyth	4	52	45	r.o.c	or	0.0
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft						
	Felixstowe	–	58	45	o.bc	bc.o	3.1
	Walton-on-Naze	–	57	45	b.bc	c	3.2
	Southend-on-Sea	2	59	44	bc.c.o	o	2.5
England. S.E.	Margate						
	Ramsgate	10	58	46	bc	o	4.5
	Hastings	–	57	42	o.b.bc	bc.o	5.3
	Eastbourne	–	57	44	b.bc.o	o	5.4
	Seaford						
	Brighton						
	Worthing	–	58	43	bc.c	o	4.0
	Littlehampton	0.4	56	60	b.bc	o	3.8
	Bognor						
	Bournemouth	0.3	58	48	c.o	or	1.1
England. S.W.	Weymouth						
	Torquay	2	54	49	op	or	0.1
	Paignton	1	55	47	c	op.o	0.0
	Penzance						
	Newquay	*					
	Bude						
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 0 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	69	84	3.3	61	50	46	2	o	o	o.or.o
City (Bunhill Row)	*	*	3.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	87	1.6	59	51	50	2	o	o	or.c
Camden Sq. (Brit. Rainfall)	–	72	2.5	62	51	49	2	–	–	*
Hampstead (Reservoir) ...	*	93	3.6	56	48	43	3	bc.o	o.or	or.o
Richmond Park ...	*	*	3.2							
Kew. (See front page.)	*	*	3.3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	60	78	3.2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1171 Joules	21.0 Milliwatts.	69 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 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	59	43	39	op.o.c	o	o	*

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

15th & 16th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.59 / 3.58	11.49 / 11.49	7.39 / 7.40
Greenwich	4.10 / 4.9	11.56 / 11.56	7.42 / 7.43
Wick	3.48 / 3.46	12.8 / 12.8	8.29 / 8.31
Valencia	6.48 / 6.47	12.37 / 12.37	9.25 / 9.26

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 55° in most parts of these Islands. Rain fell at nearly all stations, but the quantity was slight generally. Except at Deerness there was little 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.

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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. 137.

Tuesday, 16th May.

	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 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, *
BRITISH ISLANDS.	Lerwick ...	1002·8	45	NW	4	bc	1006·9	+1	42	0	NW	2	NW	bc	2	1	47	39	bc	bc	bc.	
	Deerness (Orkney)	1004·7	45	WNW	3	c	1008·4	*	44	+1	SW	3	–	o	1	–	48	39	o.c	c.	c.o	2·4
	Stornoway ...	1006·8	46	ENE	2	o	1008·0	+2	45	-2	W	1	–	o	1	15	49	43	bc.op	op.o.	op	1·8
	Castlebay (Barra Isd.)	1008·0	50	W	4	b	1010·4	+1	49	+2	W	4	W	bc	4	1	51	46	bc.o.b	op.b	bc.o.bc	5·8
	Glasgow ...	1008·1	50	W	5	bc	1012·3	+1	47	-1	WSW	3	–	omd	*	1	55	46	bc.op	c.bc	bc.op.o	12·0
	Eskdalemuir ...	1008·7	49	WNW	5	bc	1014·1	+1	45	-2	W	3	–	o	*	0·1	56	40	c	c.bc	b.bc.c	8·6
	Malin Head ...	1010·1	50	WNW	4	bcm	1012·3	+1	48	0	SW	4	–	om	4	1	50	36	bcmq	bcm	omp	5·9
	Blacksod Point	1012·6	49	WSW	3	cm	1014·5	+3	50	+2	WNW	2	NW	bc	2	0·2	53	47	bcm	bcm.	cm.cfe	*
	Valencia ...	1015·5	52	SSE	2	o	1016·5	+4	50	o	NW	3	NW	o	3	6	56	49	bc.c.o	o.c.	or.o	5·5
	Roche's Point	1015·9	58	SW	3	o	1016·6	*	52	+1	W	1	–	f	3	2	60	50	bc	bc.o	op.of	*
	Birr Castle ...	1014·5	55	SW	2	c	1015·0	*	51	+3	WSW	1	–	o	*	1	59	48	c	c	or.o	8·9
	Donaghadee ...	1011·0	55	WNW	4	bcq	1013·6	+3	52	+4	W	1	W	bcm	1	–	56	48	ogm	bcq	ogm.bc	*
	Liverpool (Bidston)	1012·1	53	WSW	4	b	1016·0	+1	50	+2	SW	3	SW	r	2	1	55	47	o.bc	bc	b.op	6·3
	Holyhead ...	1012·8	56	W	3	b	1014·7	o	49	o	SW	4	–	omd	3	2	57	47	c.bc	bc.	b.omp	11·7
	Pembroke (St. Ann's)	1016·5	50	W	3	bc	1016·5	+1	50	+1	WSW	4	–	fc	3	1	55	48	bc	bc.	c.opf	11·1
	Scilly (St. Mary's)	1017·6	55	WNW	2	bm	1018·3	o	51	+1	WSW	3	–	fc	4	0·1	57	49	cm.bm	bm.	cm.fc	11·2
	Falmouth ...	1017·4	56	NW	3	bq	1019·1	+2	52	o	SW	3	–	f	*	–	58	47	bcq.bq	bq.b	b.of	11·9
	Jersey (St. Aubin)	1017·0	54	W	4	b	1021·3	*	51	-1	W	3	W	c	2	–	56	46	fc.o	o.bc.b	bw.c	4·3
	Portland Bill ...	1014·5	53	W	4	b	1019·6	+1	50	+2	WSW	2	SW	bc	3	–	55	49	c	c.bc	b.bc	*
	Dungeness ...	1010·8	54	WSW	5	b	1020·0	+3	52	+1	SW	1	–	b	1	–	57	42	p.bc	bc.	bc.bw	*
	Dover	1011·5	58	NW	4	bc	1019·6	+4	56	+4	–	o	–	b	2	–	64	42	oc.c.o	o.c.b.o	bc.by	3·6
	Wick	1005·2	45	NW	2	c	1009·1	+2	41	-4	–	o	–	r	2	2	47	35	c.omq	ogm.c	bc.omr	*
	Nairn	1006·0	50	W	1	cq	1008·4	*	51	+5	W	3	–	cu	2	1	54	42	cq	cdq	cdq	2·3
	Aberdeen ...	1006·2	49	S	2	omp	1009·8	o	49	+1	SW	2	W	bc	2	2	55	43	bc.cp	bcglp	opu.bc	6·6
	Leith	1007·2	54	W	2	bc	1012·1	+3	50	-1	WSW	1	W	c	2	Trace	59	46	c.bcp	b	bc.	*
	Tynemouth ...	1006·8	57	NW	2	bcm	1013·5	+2	50	-2	W	2	–	om	2	–	58	45	cq	bcm	cm	*
	Spurn Head ...	1008·1	56	NNW	5	bc	1016·7	+2	49	-4	WSW	3	–	cm	2	1	58	45	bcq	bcq	bcq	4·2
	Yarmouth ...	1009·4	58	NW	5	bc	1017·4	+3	48	-6	WNW	2	–	bc	2	–	63	43	com	bc	bc	6·0
	Clacton-on-Sea	1010·6	59	NW	5	bc	1019·2	+4	52	-3	WNW	2	NW	c	2	–	64	44	oq.c	c.bc	bc.c	7·8
	Nottingham ...	1011·7	55	WNW	5	b	1016·8	*	48	-6	SSW	1	SW	o	*	0·3	57	43	mq.o.c	c.b	b	7·2
	Benson (Oxon.) ...	1012·4	58	NW	4	b	1018·7	+2	50	-4	S	2	–	o	*	–	64	37	bcr	bc.	b.o.	*
	Sth Farnborough	1012·1	62	WNW	3	b	1018·8	+2	54	-2	S	2	–	o	*	–	66	40	o.c	bc.b	b.o	9·4
	London (Kew Obsy.)	1012·0	62	NW	3	bcr	1019·5	+2	51	-4	SSW	1	W	cm	*	–	65	43	o.c	c.bcr	bcr.b.cm	7·3
NORTHERN EUROPE.	Spitsbergen ...	1017·5	18	SE	1	b	1015·3	o	18	+9	–	o	*	b	*	*	23	-4				
	Vardö	1007·0	34	SE	1	bc	1006·6	o	37	+3	SE	3	–	o	3	*	36	28				
	Bodö	997·6	43	SW	1	b	996·6	o	46	o	–	o	–	c	1	–	46	39				
	Christiansund	997·6	45	NW	6	c	999·1	+1	39	-2	W	4	–	r	4	4	45	39				
	Skudesnaes .. Færder (X'tania Fjord)	999·4	45	NNW	4	c	1005·7	+4	45	-1	NNW	6	–	c	2	–	50	39				
	The Scaw (Skagen)	994·6	48	SSW	5	o	998·3	+4	48	+2	WNW	5	–	b	5	3	50	45				
	Blaavands Huk	997·9	48	NE	4	o	1008·8	+5	46	-2	WNW	7	–	b	4	7	52	45				
FRANCE, &c.	The Helder ...	1006·0	55	W	5	b	1015·5	+5	50	-2	WNW	4	W	b	3	4	54	50				
	C. Gris Nez ...	1010·9	53	W	6	bc	1019·0	+3	52	+2	WSW	1	*	b	1	1	54	48				
	La Hève	1014·3	54	W	4	m	1019·8	*	48	-3	WSW	2	*	bc	2	–	55	46				
	Brest (St. Mathieu)	1019·4	55	NW	2	b	1021·5	o	52	-1	SSE	2	*	c	2	–	55	50				
	Rochefort (Ile d'Aix)	1019·4	57	W	5	o	1021·2	+1	54	-1	E	1	*	o	*	–	63	54				
	Biarritz	1020·7	60	NW	2	c	1019·7	o	55	o	ENE	2	*	o	1	–	64	54				
	Paris	1014·6	59	NW	3	b	1021·2	+3	54	+2	N	1	–	b	*	1	66	46				
	Belfort	1017·1	50	WSW	6	r	1021·5	*	54	+6	W	3	*	bc	*	4	52	48				
	Lyons	1018·7	56	–	o	o	1020·3	*	58	+7	–	o	*	c	*	–	64	52				
	Nice	1012·6	61	–	o	b	1014·1	+2	63	+4	–	o	*	b	o	–	70	54				
	Perpignan ...	1016·6	66	WNW	3	b	1017·7	o	68	+9	WNW	2	–	b	*	–	72	55				
	Sanguinaire ...	*	64	NW	3	m	*	*	64	+3	E	3	*	m	4	–	68	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1018·9	63	NNW	5	b	1016·4	o	61	+4	ESE	1	–	bc	1	–	63	50				
	Madrid (8 a.m.)	1013·9	75	–	o	b	1016·7	+2	63	+4	NE	1	W	bc	*	–	75	54				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1020·4	*	SW	5	m							*									
	Madeira (Funchal)	1017·3	61	NE	3	r	1016·4	o	59	0	N	3	NW	o	3	–	63	59				
	Gibraltar	1015·9	64	E	5	o	1014·2	*	65	+5	E	6	*	bc	3	–	73	59				
	Malta (8 a.m.) ...	*	*	*	*	*	1012·3	o	63	o	NNW	2	–	c	o	–	68	59				
	Limassol (6 a.m.)	*	*	*	*	*	1008·3	o	90	+8	E	5	–	bc	4	–	91	63				
	Alexandria (6 a.m.)	1006·1	84	–	o	bc	1006·1	+1	82	+9	–	o	W	c	o	–	86	75				
	Cairo (Helwan) (6 a.m.	1006·1	97	E	1	c	1008·0	+3	93	+11	–	o	–	c	*	–	111	81				
YESTERDAY'S REPORTS		....14th...., 8 P.M. G.M.T.					...15th. May..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1010·7	o	59	+5	–	o	N	o	3	5	61	55				
	Turin						1012·1	o	59	+4	NNE	4	–	b	*	1	64	52				
	Pesaro						1011·0	+3	61	o	W	2	SW	o	4	1	64	54				
	Leghorn						1011·0	o	59	o	–	o	NW	bc	o	3	68	55				
	Rome						1010·2	o	59	-5	–	o	–	b	*	–	70	50				
	Viesti						996·9	o	66	o	NW	1	–	c	2	–	66	57				
	Brindisi						1006·9	o	67	+6	WNW	1	NW	b	2	–	70	55				
	Cagliari						1012·9	o	59	o	W	4	E	b	4	–	77	50				
	Palermo						1009·4	o	64	+5	NNW	1	SE	bc	1	–	72	52				
	Tripoli						1010·7	o	86	+20	NNW	3	–	b	3	Trace	68	61				
	Algiers	1016·3	63	–	o	c	1016·8	+2	64		ESE	2	–	bc	3	–	73	59				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at 7.16 a.m. to-day

6,000 feet	W	21	miles per hour
5,000 "	W	20	" " "
4,000 "	WbyS	18	" " "
3,000 "	SWbyS	14	" " "
2,000 "	SWbyS	11	" " "
1,000 "	SW	11	" " "
Surface.	SbyW	5	" " "

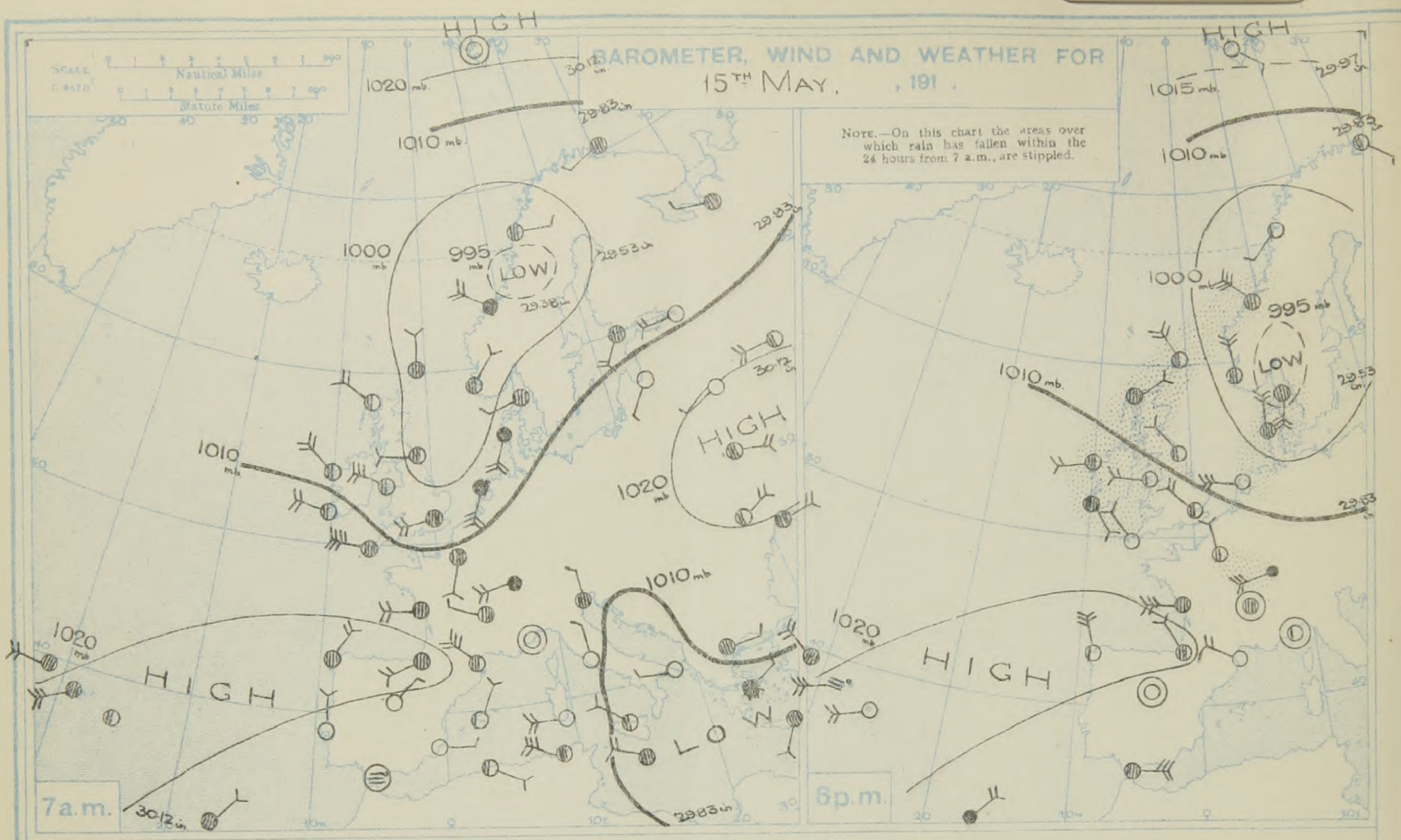
Aberdeen

Pilot Balloon Ascent at 8 a.m. to-day

2,000 feet	WSW	17	miles per hour
1,000 "	SW	8	" " "
500 "	SW	10	" " "
Surface.	SW	7	" " "

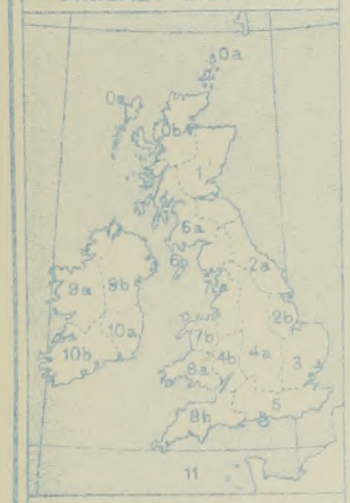
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 15TH MAY, , 191 .



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	Wind Westerly (South-West to North-West), light to moderate; fine to cloudy, local passing showers and mist; mild.
1		
2	a, b	
3		
4	a, b	
5		
6	a, b	
7	a, b	
8	a, b	
9	a, b	
10	a, b	
Western Channel and Bay	11	South-Westerly to South-Easterly breezes; sea moderate; fine to cloudy, some 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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 16TH MAY, 1916.

GENERAL INFERENCE.

A small irregularity of pressure on the Irish Sea will occasion local showers as it moves eastward

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale of Miles
Nautical Miles
Statute Miles

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

Scale of Tints for MAY.

1015 mb. HIGH 29.97 in.
1010 mb. 29.83 in.
1005 mb. 29.68 in.
1000 mb. 29.53 in.
1005 mb. LOW 29.53 in.
1010 mb. 29.68 in.
1015 mb. 29.83 in.
29.97 in.
50° Barometer generally
1020 mb. HIGH 30.12 in.
29.97 in.
60°
1015 mb. LOW

Issue No. 19.899

DAILY WEATHER REPORT.

Tuesday, 16th May, **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	14th 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	1005·7	41	W	1	o	1006·1	o	37	+3	WNW	1	*	o	*	1	*	36
Gorki	.	.	.	.	.	1020·4	+5	46	+10	WSW	1	*	b	*	–	*	36
Veliki Luki ...	1015·4	39	S	3	bc	.	.	.	.	.	.	*	.	*	.	*	*
Hangö	1010·1	37	SW	2	o	1009·0	o	39	+3	SW	3	*	o	o	–	*	39
Riga	1013·3	43	SSE	2	bc	1014·7	o	50	+11	SW	2	*	b	*	7	*	37
Petrograd	1010·4	37	W	3	bc	1014·3	+3	39	+3	SW	3	–	o	*	6	43	36
Moscow	1016·6	39	SW	5	bc	1019·8	+3	41	o	W	4	*	bc	*	–	*	41
Kiev	1021·7	45	SSW	2	b	1023·3	+1	46	+9	ESE	3	*	c	*	–	*	37
Kharkov	1022·3	43	–	o	b	1025·9	+2	46	o	E	2	*	b	*	1	*	41
Kishinev	1019·1	57	SE	2	bc	1020·2	+2	54	+6	ENE	3	*	b	*	–	*	46
Elisabetgrad ...	1021·2	48	E	2	b	1022·6	+1	50	.	E	3	*	b	*	–	*	39
Nicolaiev	1018·7	61	NE	4	bc	1020·2	*	54	–3	–	o	*	b	*	–	*	50
Odessa	1018·9	59	ESE	1	o	1019·4	+2	55	o	E	3	*	o	*	–	*	54
Tarkhankout ...	1017·7	57	N	2	bc	1017·0	*	63	+4	NE	4	*	bc	o	–	*	55
Soukhoum	1015·1	61	–	o	c	1014·6	*	63	.	–	o	*	o	*	–	*	?

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	0·1	50	45	od. bc	bc. od	2·4
Scotland.	St. Andrews	–	60	43	*	*	6·3
Scotland.	Carnoustie	8	60	50	bc/o	bc. o/o	7·0
Eng. N.E.	Harrogate	2	58	50	bc. b	bc. c	9·2
Eng. N.E.	Skegness	4	61	49	r. o. bc	bc. b	9·5
Eng. N.W.	Morecambe	–	56	49	bc	bc	9·0
Eng. N.W.	Blackpool						
Eng. N.W.	Southport						
Midlands.	Buxton						
Midlands.	Leamington Spa	0·3	61	51	o c bc	bc	7·6
Midlands.	Malvern	–	61	48	bc	bc	8·0
Midlands.	Ross-on-Wye	–	63	50	c bc b	bc	8·8
Wales.	Rhyl	2	56	49	r. bc	c	5·3
Wales.	Colwyn Bay	3	56	49	bc	bc	5·5
Wales.	Llandudno	3	55	49	c. b	b	8·5
Wales.	Aberystwyth	1	50	45	r. o c	c. bc	4·7
Wales.	Tenby						
England, E.	Lowestoft						
England, E.	Felixstowe	–	64	48	bc	bc	7·8
England, E.	Walton-on-Naze	0·2	64	51	bc. c. b	b.	7·8
England, E.	Southend-on-Sea	1	65	51	o. c. bc	o. c. bc. b	5·7
England, S.E.	Margate	–	62	50	c	b	5·8
England, S.E.	Ramsgate	0·4	65	49	o	bc	6·0
England, S.E.	Hastings	4	61	49	or. c	bc. b	5·9
England, S.E.	Eastbourne	5	58	49	or. bc	b. bc	6·9
England, S.E.	Seaford	6	58	49	c	b	6·4
England, S.E.	Brighton						
England, S.E.	Worthing	3	62	50	o. c	bc. b	6·0
England, S.E.	Littlehampton	1	65	?	o. bc	b	6·5
England, S.E.	Bognor	1	64	51	bc	b	6·5
England, S.E.	Bournemouth	1	64	51	r o	bc. b	6·5
England, S.W.	Weymouth	2	62	51	bc c. b	bg	6·0
England, S.W.	Torquay						
England, S.W.	Paignton						
England, S.W.	Penzance	0·2	59	51	b	b	11·3
England, S.W.	Newquay	*					
England, S.W.	Bude	3	56	52	o bc	c	5·6
England, S.W.	Ilfracombe	–	54	42	o. c. bc	bc. c	4·2
England, S.W.	Weston-super-Mare ...	4	58	48	o. bc. b	b	7·2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	64	60	5·8	66	41	32	–	bc	bc	bc. b. o
City (Bunhill Row)	*	*	6·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	44	74	6·3	67	42	39	–	o. bc	bc	bc. o.
Camden Sq. (Brit. Rainfall)	52	64	6·9	69	43	39	–	o. c	bc.	*
Hampstead (Reservoir) ...	*	70	6·3	65	42	32	–	o. bc	b	c.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	7·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	51	61	6·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1280 Joules	22·9 Milliwatts.	82 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 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 8 p.m.)	2	67	52	50	op. o	o. c bc	bc.	*

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

16th & 17th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.58 / 3.57	11.49 / 11.49	7.40 / 7.41
Greenwich	4.9 / 4.8	11.56 / 11.56	7.43 / 7.44
Wick	3.46 / 3.46	12.8 / 12.8	8.31 / 8.33
Valencia	4.47 / 4.46	12.17 / 12.17	8.26 / 8.27

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 60° at many stations but remained below 50° in the far north. Showers occurred in the north and west. Sunshine was general, and ranged up to 12 hours at Falmouth and Glasgow.

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

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§ 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. 138. Wednesday, 17th May,

	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 ...	1011·4	45	WNW	3	c	1019·2	+2	40	-2	NW	4	NW	bc	3	0·2	49	37	bcp	bc	bc	*
	Deerness (Orkney)	1012·2	45	N	3	o	1021·0	*	?	?	NW	4	NW	b	3	1	53	39	o.c	c.o	o.c.bc.b	1·5
	Stornoway ...	1013·6	51	WSW	5	cq	1022·4	+2	46	+1	E	1	–	bz	1	0·3	53	36	cp.cq	c.cq	bc.bz	3·2
	Castlebay (Barra Isd.)	1015·5	49	W	4	o	1021·1	+1	46	-3	ENE	3	–	o	3	–	52	44	bc.b	c.o	o	10·7
	Glasgow ...	1016·5	53	WNW	3	b	1023·2	+3	45	-2	SE	1	–	om	*	–	58	41	cp.c.bc	bc	bm.cm	8·1
	Eskdalemuir ...	1017·0	54	WSW	4	b	1023·5	+3	46	+1	ESE	1	–	o	*	1	59	37	cu.cr.c	c.bc.b	bc.c	7·6
	Malin Head ...	1018·1	51	W	3	bcz	1020·6	o	50	+2	E	3	–	om	2	0·3	54	45	bcz	bcz	cmp	8·3
	Blacksod Point	1019·1	52	W	2	bc	1019·3	+2	50	o	SW	4	–	ome	3	1	54	48	bc	bc	bc.cmd	*
	Valencia ...	1018·9	52	SSE	3	o	1022·8	+3	53	+3	SSE	3	–	b	3	1	56	50	o.bc	c.o	o.cm.cp.c	0·7
	Roche's Point	1020·2	54	SW	3	b	1024·5	*	52	o	S	1	SW	c	2	0·3	62	50	o.bc	bc.b	b.o.cu	*
	Birr Castle ...	1018·2	61	SW	1	c	1022·2	*	57	+6	SSW	1	–	o	*	1	63	50	c	c	c.cr.o	7·1
	Donaghadee ...	1018·4	52	ENE	2	bz	1021·9	+1	48	-4	SSE	2	–	cmd	1	–	59	46	bcz	bz	ogmpd	*
	Liverpool (Bidston)	1018·9	56	W	1	b	1024·3	+3	53	+3	–	0	–	b	1	0·4	58	45	o	o.c.b	b	3·3
	Holyhead ...	1019·0	56	SW	4	bz	1023·9	+2	47	-2	SSW	5	–	fc	4	Trace	60	46	fd.cf	bc.b.	b.bc.bf	6·4
	Pembroke (St. Ann's)	1020·8	48	W	2	f	1026·5	+2	47	-3	ESE	1	–	fg	2	4	52	46	fp.r	f	fc	0·0
	Scilly (St. Mary's)	1021·7	53	W	1	fc	1026·5	+2	52	+1	–	0	–	fc	2	0·4	55	50	cfc	fc	fc	0·0
	Falmouth ...	1020·8	55	WSW	1	om	1025·5	+2	50	-2	NNE	2	–	om	*	–	57	49	om	om	om	0·0
	Jersey (St. Aubin)	1022·1	60	NW	2	b	1026·0	*	51	o	N	3	–	ome	3	–	62	50	f.bc.cm	cm.b	ome	9·0
	Portland Bill ...	1020·8	51	SW	4	om	1025·6	+2	53	+3	NW	1	–	c	2	–	54	48	bc.c	c.om	sm.cf	*
	Dungeness ...	1021·3	53	SW	2	bc	1026·0	+2	50	+1	SW	1	–	o	1	–	57	50	b.bc	bc	bc.c.o	*
	Dover	1021·3	52	SW	4	bc													b.bc.c.b	b.bc		
	Wick	1013·0	45	SSW	2	o	1022·4	+4	44	+3	NW	2	–	bc	2	5	46	37	sr.bcm	bc.cmp	p.o.bc	*
	Nairn	1013·5	53	W	4	cq	1022·4	*	48	-3	–	0	–	bc	1	1	59	42	m.cp.bc	bcdq	cq	8·3
	Aberdeen ...	1013·4	54	NW	2	bc	1023·1	+3	47	-2	NW	4	W	bc	2	0·3	61	44	bc	bc	bc.b	8·3
	Leith	1015·8	58	W	2	bc	1022·8	+3	49	-1	W	1	W	c	2	Trace	60	45	b	b	bc	*
	Tynemouth ...	1015·4	60	NW	3	bcmq	1023·1	+3	52	+2	NW	1	NW	cm	2	–	61	46	bcm	bcm	cm	*
	Spurn Head ...	1017·9	55	W	4	cm	1024·2	+1	50	+1	N	3	–	bcm	4	–	57	48	cm	c.cm	bcm	1·3
	Yarmouth ...	1018·2	59	WNW	3	c	1025·4	+3	50	+2	NNW	1	–	bf	1	–	62	45	bc.c	c.o.c.	cm.bf	4·4
	Clacton-on-Sea	1019·3	58	WSW	3	c	1025·3	+6	52	o	NW	3	–	bc	2	–	62	48	c	c	c.bcwz	3·6
	Nottingham ...	1018·0	57	NNW	1	c	1025·3	*	43	-5	SW	1	–	bm	*	0·2	59	39	cp	cp.cq	c.bm	0·2
	Benson (Oxon.) ...	1019·4	57	SSW	1	o	1026·0	+3	50	o	–	0	–	o	*	1	59	45	cr.o	o	b.o	*
	Sth Farnborough	1019·8	58	SW	4	o	1025·6	+3	50	-4	–	0	–	cmd	*	Trace	62	47	bc.r.o	o	bc.b.md	2·6
	London (Kew Obsy.)	1020·5	59	SW	3	o	1026·2	+3	52	+1	WNW	1	–	o	*	0·1	61	50	cm.c.cd	cd.o	o.b.o	1·2
NORTHERN EUROPE.	Spitsbergen ...	1014·6	19	–	0	b	1016·8	o	14	-4	S	1	*	b	*	*	28	1				
	Vardö	1015·7	37	SE	2	o	1002·7	-3	37	o	SE	3	–	o	2	*	37	32				
	Bodö	999·9	45	W	2	b	999·5	o	41	-5	WSW	4	–	r	2	–	46	39				
	Christiansund	1005·3	44	W	5	r	1007·3	+2	37	-2	W	6	–	c	5	4	45	36				
	Skudesnaes ..	1011·1	45	WNW	4	b	1015·7	+3	45	o	WNW	6	–	c	3	2	48	39				
	Færder (Christiania Fjord)																					
	The Scaw (Skagen)	1007·8	48	W	6	b	1012·2	+1	46	-2	W	4	W	c	4	–	52	43				
	Blaavands Huk	1016·4	50	WSW	4	b	1017·0	+2	48	+2	WNW	3	–	b	2	–	52	45				
FRANCE, &c.	The Helder ...	1019·5	54	SSW	3	o	1023·3	+3	52	+2	W	2	–	b	1	–	55	50				
	C. Gris Nez ...	1020·7	54	SW	3	b	1025·5	+3	52	o	SW	1	*	f	2	–	59	50				
	La Hève	1023·3	59	NNE	1	b	1025·6	*	52	+4	N	1	*	m	1	–	66	50				
	Brest (St. Mathieu)	1023·0	57	WNW	2	m	1025·2	+3	53	+1	NE	2	*	m	2	–	63	46				
	Rochefort (Ile d'Aix)	1020·0	62	NNW	4	b	1021·7	+1	59	+5	ENE	4	*	b	*	–	66	54				
	Biarritz	1017·3	60	NE	3	b	1019·4	+1	61	+6	ESE	1	*	b	2	–	68	54				
	Paris	1021·7	64	SSE	1	b	1025·6	?	55	+1	–	0	W	b	*	?	?	?				
	Belfort	1022·6	63	–	0	bc	1026·1	*	54	o	ESE	4	*	m	*	–	68	45				
	Lyons	1020·0	63	NNE	1	b	1023·4	*	56	-2	–	0	*	b	*	–	69	48				
	Nice	1016·4	66	–	0	b	1021·3	?	66	+3	E	2	*	b	0	–	72	54				
	Perpignan ...	1015·4	77	–	0	b	1020·7	+3	68	+4	–	0	–	b	*	–	86	52				
	Sanguinaire ...	*	64	W	3	m	*	*	65	+1	W	3	*	b	3	–	68	57				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1014·3	68	NNW	2	c	1016·0	+2	63	+2	NE	3	–	o	1	–	72	57				
	Madrid (8 a.m.)	1012·4	81	NNE	1	o	1018·7	+2	66	+3	NE	2	–	bc	*	–	81	59				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1011·0	*	SSW	7	m							*									
	Madeira (Funchal)	1016·4	64	N	3	o	1017·3	+2	57	-2	N	2	N	bc	3	–	64	57				
	Gibraltar	1016·9	64	E	3	o	1016·2	*	65	o	SE	4	*	o	3	2	67	60				
	Malta (8 a.m.) ...	*	*	*	*	*	1015·8	+1	66	+3	NW	3	–	b	1	–	68	59				
	Limassol (6 a.m.)	*	*	*	*	*	1010·6	o	93	+3	ESE	1	–	o	4	–	95	70				
	Alexandria (6 a.m.)	1009·3	75	NW	3	c	1009·9	+2	77	-5	W	4	–	o	2	–	91	73				
	Cairo (Helwan) 6 a.m.	1007·4	95	N	3	c	1009·2	+1	95	+2	SE	1	–	b	o	–	113	73				
	YESTERDAY'S REPORTS			...15th..., 8 P.M. G.M.T.							...16th May..., 7 A.M. G.M.T.											
MEDITERRANEAN.	Venice						1015·7	+3	63	+4	–	0	N	c	3	–	68	57				
	Turin						1015·0	o	59	o	–	0	–	b	*	–	70	54				
	Pesaro						1014·7	o	61	o	W	1	NW	b	2	–	70	50				
	Leghorn						1014·4	o	64	+5	–	0	W	b	1	–	70	57				
	Rome						1013·5	o	63	+4	–	0	–	b	*	–	73	54				
	Viesti						1012·1	o	64	-2	NW	2	NW	b	1	–	72	57				
	Brindisi						1010·8	o	63	-4	NW	4	NW	c	4	–	66	63				
	Cagliari						1014·0	o	55	-4	NW	5	NE	b	4	–	78	48				
	Palermo						1013·2	o	64	o	N	1	–	b	1	3	70	54				
	Tripoli						1012·7	o	64	-2	NW	3	NW	c	3	Trace	72	55				
	Algiers	1017·2	63	ENE	2	b	1017·6	o	63	-1	NE	3	–	b	3	–	70	57				

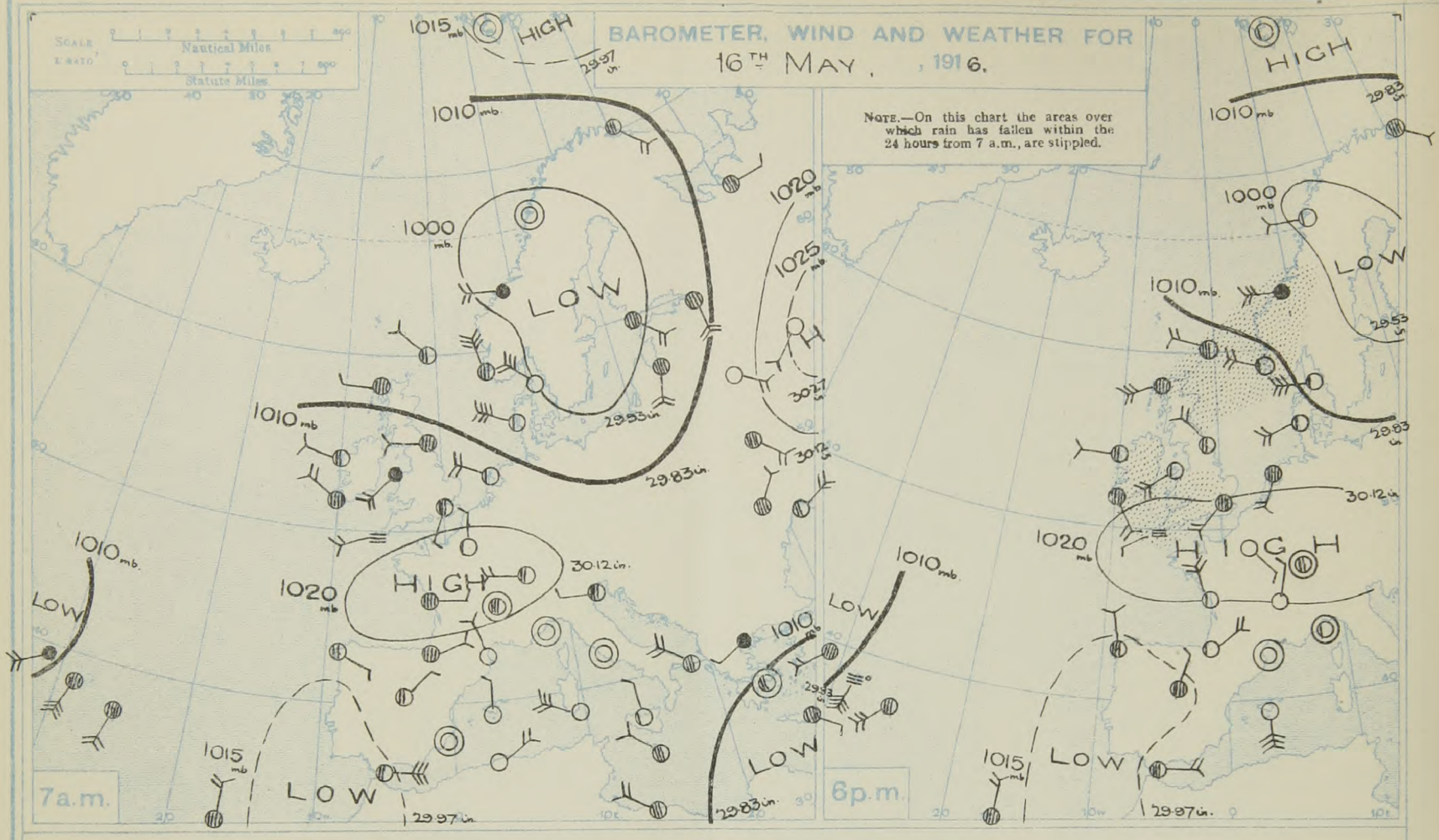
RAINFALL

Equivalents of Millimetres in Inches.

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

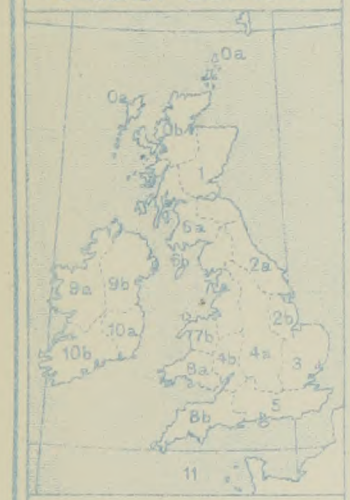
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



0 a, b	Calms and light variable breezes;
1	
2 a, b	
3	
4 a, b	cloudy to fine, some mist; warmer.
5	
6 a, b	
7 a, b	
8 a, b	
9 a, b	
10 c, d	
Western Channel and Bay 11	Light to moderate Easterly breezes; sea moderate; fine, local mist or fog.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 17TH MAY, 1916.

GENERAL INFERENCE.

Quiet anticyclonic conditions will be maintained.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

Scale 1:12 000 000
Nautical Miles 0 1 2 3 4 5 200
Statute Miles 0 1 2 3 4 5 200

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

Issue No. 19,900

DAILY WEATHER REPORT.

Wednesday, 17th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	15th at 9 PM. 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	1011·0	39	–	0	0	1013·6	+1	41	+4	E	1	*	0	4	–	*	37
Gorki	1018·9	50	SSW	1	b	1017·3	+2	50	+4	SE	3	*	b	*	–	*	48
Veliki Luki ...	.	.	.	.	.	1015·4	*	54	.	SSE	2	*	c	*	–	*	48
Hangö	1007·8	41	SE	2	r	999·4	-5	48	+9	SSE	3	*	0	*	1	*	34
Riga	1008·8	57	SSE	1	0	1002·7	-5	55	+5	SSW	4	*	0	*	3	*	54
Petrograd	1014·1	52	SSE	3	r	1009·3	-2	50	+11	SSE	4	–	0	*	–	57	39
Moscow	1023·8	52	SSW	1	b	1025·1	0	52	+11	WSW	2	*	b	*	–	*	41
Kiev	1021·6	54	SE	3	c	1019·3	+1	52	+6	SE	3	*	0	*	–	*	46
Kharkov	1024·3	54	E	2	b	1023·7	+1	54	+8	E	2	*	0	*	–	*	46
Kishinev	1018·1	62	E	3	c	1017·1	0	57	+3	NE	2	*	0	*	–	*	52
Elisabetgrad ...	1020·6	57	S	4	c	1019·0	+1	57	+7	ESE	2	*	0	*	2	*	54
Nicolaiev	1017·6	63	NE	4	b	1016·6	*	61	+7	ENE	4	*	bc	0	–	*	50
Odessa	1017·6	63	ESE	2	0	1014·6	0	61	+6	SSE	3	*	0	0	3	*	61
Tarkhankout ...	1016·0	66	NE	4	bc	.	.	.	.	.	.	*	.	.	.	*	.
Soukhoum	1012·0	68	NNE	1	c	1013·2	+1	70	+7	–	0	*	0	0	–	*	63

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	53	46	bc	c	7·8
	Banff	1	55	42	cd·bc	bc	7·3
	St. Andrews						
	Carnoustie	0·1	62	53	bc. o.c	b	12·4
Eng. N.E.	Harrogate	–	58	41	o.c·bc	bc.b	6·8
	Skegness	0·1	58	41	dp. bc	og.b	1·9
Eng. N.W.	Morecambe	–	55	44	c	bc.b	4·5
	Blackpool						
	Southport	0·3	57	46	o	o.c.b	3·2
Midlands.	Buxton						
	Leamington Spa	4	61	44	or	c.bc	2·0
	Malvern	8	60	47	r.o.c	bc.b	2·0
	Ross-on-Wye	3	62	42	or.c	bc.b	1·7
Wales.	Rhyl	0·2	57	45	bc	bc	3·7
	Colwyn Bay	1	56	48	bc	b	4·0
	Llandudno	–	57	47	c	c b	3·0
	Aberystwyth	5	52	49	r.o.r	o.c	0·0
	Tenby	3	56	50	bc.c	o	0·0
England. E.	Lowestoft	–	63	43	c.o.c	c.o	4·0
	Felixstowe	–	63	43	bc	bc	3·5
	Walton-on-Naze	–	61	44	bg.bc	bc.b	4·4
	Southend-on-Sea	–	65	44	o.c.bc.b	o.c.bc	4·2
England, S.E.	Margate	–	63	46	bc	c.o	5·0
	Ramsgate	–	60	42	bc	o	7·7
	Hastings	–	58	44	b	bc.b	11·9
	Eastbourne	–	60	45	b.bc	bc.b	11·8
	Seaford	–	59	41	b	b	12·3
	Brighton						
	Worthing	–	59	42	bc	bc.c	7·9
	Littlehampton	–	56	50	b	bc.o	7·0
	Bognor						
	Bournemouth	–	58	44	bc	bc o	1·7
England, S.W.	Weymouth	–	57	46	c.om	om	0·3
	Torquay	–	59	45	o	c.o	0·3
	Paignton						
	Penzance	–	58	49	of	o	0·0
	Newquay	*	52	51	oe.d	ond	0·0
	Bude	1	56	51	od	od	0·0
	Ilfracombe	1	58	46	d.o	o.c.bc.o	0·5
	Weston-super-Mare ...	1	58	46	o.cd	c.b	0·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	69	76	3·0	65	31	42	–	o.or	o.c.	cm.bc
City (Bunhill Row)	*	*	1·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	85	1·6	61	62	48	–	o.m.bc	bc	bcm
Camden Sq. (Brit. Rainfall)	62	78	0·5	63	55	46	–	c.o	o.c.	*
Hampstead (Reservoir) ...	*	85	0·4	59	48	40	Trace	o	cm	cm.bcm
Richmond Park ...	*	*	1·1							
Kew. (See front page.)	*	*	1·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	60	74	1·8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
972 Joules	174 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.		64	30	47	c.org	o.c.b	c.b.	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·2	62	45	38	b.o.od	o	o	*

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

17th & 18th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.57 / 3.56	11.49 / 11.49	7.41 / 7.42
Greenwich	4.8 / 4.6	11.56 / 11.56	7.44 / 7.46
Wick	3.44 / 3.42	12.8 / 12.8	8.33 / 8.35
Valencia	4.46 / 4.46	12.37 / 12.37	8.27 / 8.28

NOTES ON YESTERDAY'S WEATHER.

The maximum temperature ranged from 46° at Wick to 65° at Southend. There were slight local showers. Sunshine was very variable, none in several places, more than 12 hours at others.

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

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§ 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. 139

Thursday, 18th May,

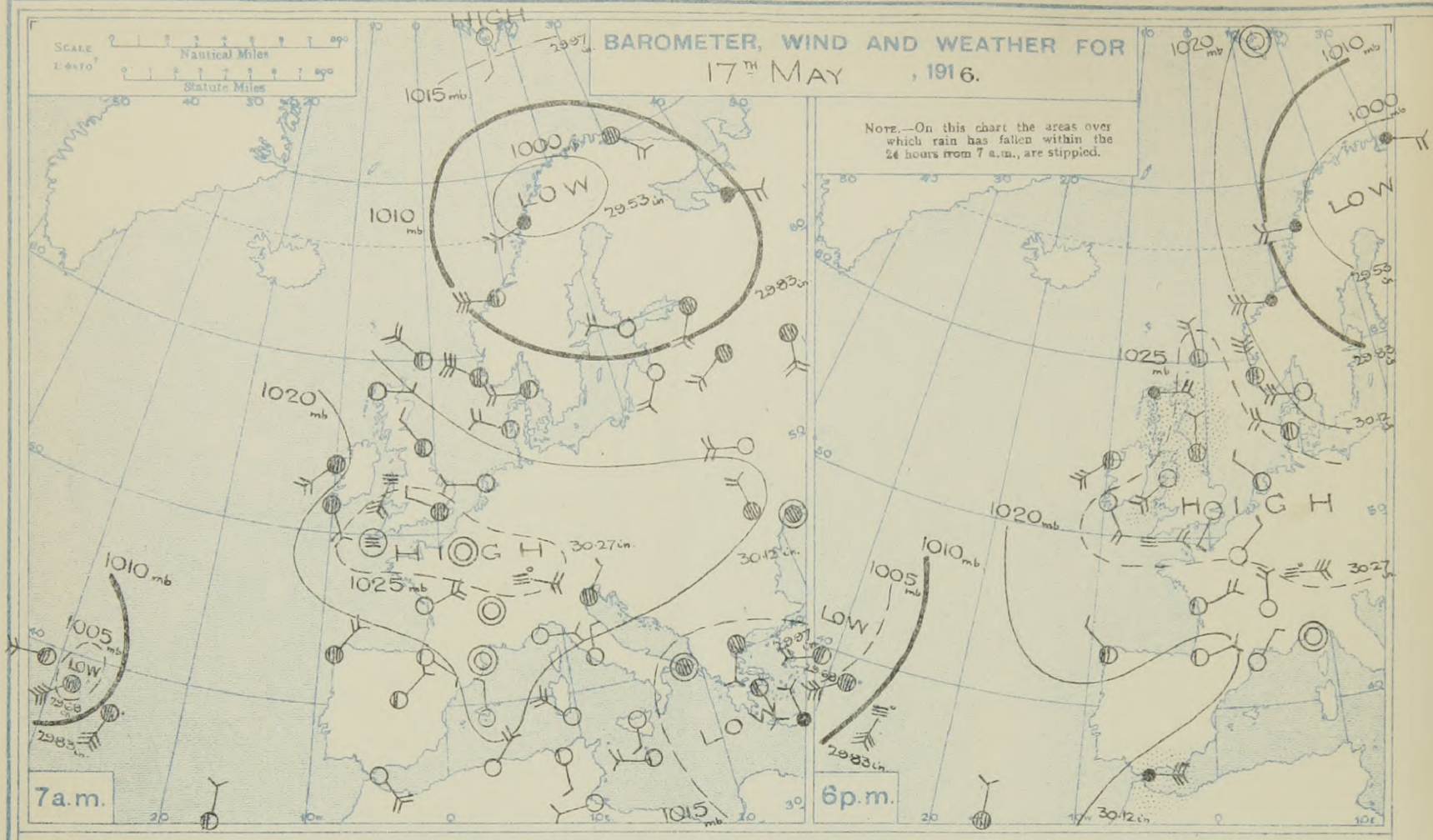
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, ¾
BRITISH ISLANDS.	Lerwick ...	1026·2	44	NNW	3	bc	1028·4	+1	44	+4	NNW	1	-	bc	1	-	45	38	bc	bc	bc	
	Deerness (Orkney)	1024·7	44	ESE	3	o	1027·1	*	43	?	SE	4	-	md	4	1	50	39	b.bc	bc.c.o	odm	9.4
	Stornoway ...	1021·1	45	E	3	or	1026·5	+2	52	+6	W	2	-	ep	2	7	52	45	oz	or	odm.op	1·6
	Castlebay (Barraisd.)	1020·4	50	WSW	5	md	1027·4	+4	49	+3	SW	3	-	odm	3	12	50	45	or	r.dm	me.f.dm	0·0
	Glasgow ...	1024·4	46	E	2	mr	1028·7	+3	52	+7	WSW	2	-	cm	*	11	52	44	omr	omr	md.om	0·0
	Eskdalemuir ...	1025·4	48	S	1	fe	1028·4	+2	55	+9	WNW	3	w	bc	*	5	55	45	odm	ofe	f.ome	0·0
	Malin Head ...	1022·0	52	SW	2	bcm	1027·6	+2	50	0	E	2	-	fe	2	5	54	47	om.f	bcm	fe	0·2
	Blacksod Point	1024·0	51	SW	5	cm	1025·9	0	53	+3	SE	2	SE	bc	2	0·1	53	46	ofe	om	om.ofe	*
	Valencia ...	1025·2	57	SSE	3	b	1026·0	+1	60	+7	E	3	S	bc	2	-	61	49	o.bc	bc	b	11·8
	Roche's Point	1027·0	50	S	2	f	1029·5	*	49	-3	S	1	-	f	2	1	57	45	bcf	f	f	*
	Birr Castle ...	1026·1	61	NW	1	c	1028·6	*	54	-3	NW	1	-	m	*	-	69	47	c	c	cf	5·9
	Donaghadee ...	1024·1	65	W	3	cm	1029·0	+2	50	+2	NNW	1	-	f	1	-	66	47	ogmpd	cm	cm.bf	*
	Liverpool (Bidston)	1026·6	58	W	2	b	1029·3	+1	56	+3	WNW	1	-	bm	1	-	67	51	b	b	bm	11·7
	Holyhead ...	1026·2	49	SW	4	bf	1029·2	+1	52	+5	SW	2	-	bz	0	Trace	54	46	f.bcf	bcf.bf	bf.bw	3·2
	Pembroke (St.Ann's)	1027·9	47	SW	2	f	1029·0	+1	51	+4	E	3	-	b	0	-	50	44	f	f	f.b	0·1
	Scilly (St. Mary's)	1028·1	51	E	3	fe	1029·1	0	48	-4	ESE	3	-	fe	3	0·1	56	46	fe	fe	fe	0·2
	Falmouth ...	1026·8	53	SE	2	of	1027·9	+1	50	0	E	1	-	b	*	-	55	46	om	om.be.o	f.b	0·6
	Jersey (St. Aubin)	1025·6	61	N	3	b	1027·6	*	60	+9	NE	2	-	b	2	-	67	51	om.be	bc.b	b	10·0
	Portland Bill ...	1027·4	54	-	0	b	1028·5	+1	55	+2	ENE	1	-	b	2	-	57	48	c.bc	bc	b	*
	Dungeness ...	1026·7	54	S	1	b	1028·6	+1	57	+4	N	1	-	bz	1	-	57	45	o.c.b	b	bfe.bz	*
	Dover	1027·2	57	-	0	b	1028·6	+2	63	+9	-	0	-	bz	1	-	63	46	m.bc.b	b	bz	10·3
	Wick	1024·7	43	SE	2	r	1026·0	+2	45	+1	SE	2	-	me	3	5	48	43	bc	c.omr	omr.fe	*
	Nairn	1022·6	47	-	0	omr	1026·1	*	54	+6	-	0	-	cg	1	6	54	45	bc.edg	d.r.o	d.o.c	3·3
	Aberdeen ...	1025·8	44	SSE	3	r	1027·3	+4	50	+3	-	0	NW	bcm	2	6	53	44	bc.c.o	or	or.bcm	3·7.
	Leith	1024·5	47	E	1	r	1028·0	+2	54	+5	W	1	-	o	2	5	54	45	c.or	r	r.o	*
	Tynemouth ...	1025·5	48	N	2	cm	1028·0	+2	55	+3	W	2	W	bcm	2	1	56	46	omr	cm	bcm	*
	Spurn Head ...	1024·2	50	SE	4	c	1029·6	+2	54	+4	NW	2	-	bcm	4	-	63	50	bcm	c	bcm	9·6
	Yarmouth ...	1027·3	54	ESE	2	bc	1029·5	+2	55	+5	N	2	-	bm	2	-	61	47	bm	bm.bc	bm.bcm	11·7
	Clacton-on-Sea	1026·4	57	ESE	2	b	1029·3	+2	58	+6	NW	1	-	b	0	-	60	51	bz.bz	bz	bcw.bz	12·3
	Nottingham ...	1025·5	66	SW	1	b	1029·6	*	52	+9	SW	1	-	bm	*	-	68	43	bml	b	b	11·3
	Benson (Oxon.) ...	1026·4	66	-	0	b	1029·6	+2	52	+2	-	0	-	b	*	-	69	41	o.b	b	b	*
	Sth Farnborough	1025·9	68	-	0	b	1029·0	+2	50	0	-	0	-	bm	*	-	69	40	m.o	b	bf.m	6·7
	London (Kew Obsy.)	1026·5	70	SW	1	b	1029·9	+2	52	0	-	0	-	bm	*	-	70	45	o.c.bc.b	b	b.bmw.fw	10·3
NORTHERN EUROPE.	Spitsbergen ...	1019·7	28	-	0	b	1023·1	+1	14	0	-	0	*	b	*	*	30	1				
	Vardö	999·1	36	ESE	3	r	998·3	?	32	-5	SE	3	-	s	4	*	37	32				
	Bodö	1001·5	41	W	4	r	1001·6	+1	41	0	WNW	2	-	c	2	19	43	37				
	Christiansund	1014·1	41	W	6	r	1020·3	+4	39	+2	SW	4	-	r	4	5	43	36				
	Skudesnaes ...	1022·7	41	NNW	6	c	1026·4	+3	43	-2	NNW	6	-	o	2	-	45	37				
	Færder (Ytania Fjord)																					
	The Scaw (Skagen)	?1015·3	48	W	5	b	1020·2	+1	46	0	NW	5	W	b	6	-	52	43				
	Blaavands Huk	1024·8	48	NW	4	c	1027·5	0	46	-2	NW	3	-	o	3	-	54	43				
FRANCE, &c.	The Helder ...	1027·3	55	NW	1	b	1027·8	0	54	+2	SSW	2	-	b	1	-	57	43				
	C. Gris Nez ...	1026·3	57	NW	1	b	1028·4	+1	57	+5	-	0	*	b	0	-	61	52				
	La Hève	1026·4	66	NNE	2	m	1027·8	*	59	+7	ENE	2	*	m	1	-	68	55				
	Brest (St. Mathieu)	1024·8	64	NE	2	bc	1026·0	+1	65	+12	E	3	*	b	1	-	70	52				
	Rochefort (Ile d'Aix)	1021·2	75	ENE	3	b	1023·0	+3	61	+2	ENE	3	*	b	*	-	86	55				
	Biarritz	1018·4	66	ENE	2	b	1021·3	+2	65	+4	-	0	*	b	2	-	68	59				
	Paris	1025·2	68	NE	2	b	1027·7	+2	63	+8	NE	1	W	b	*	-	75	52				
	Belfort	1025·1	66	E	5	m	1028·0	*	58	+4	E	4	*	m	*	-	72	48				
	Lyons	1022·9	?	N	3	b	1025·3	*	61	+5	-	0	*	b	*	-	77	54				
	Nice	1021·1	66	-	0	b	1025·7	+3	68	+2	-	0	*	bc	0	-	77	59				
	Perpignan ...	1020·4	73	NE	1	b	1023·8	+3	66	-2	-	0	-	b	*	-	79	50				
	Sanguinaire ...	*	66	S	3	c	*	*	66	+1	E	2	*	b	2	-	72	59				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1024·8	68	NW	1	c	1021·0	45	63	0	NE	1	-	b	1	-	70	55				
	Madrid (8 a.m.)														*							
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1005·1	*	SW	6	o							*									
	Madeira (Funchal)	1018·9	64	N	2	o	1021·6	0	59	+2	N	2	-	c	2	-	64	59				
	Gibraltar	1021·3	63	E	4	r	1020·3	*	65	∘	E	6	*	o	3	11	68	60				
	Malta (8 a.m.) ...	*	*	*	*	*	1019·5	+3	66	0	NW	3	-	b	1	-	70	61				
	Limassol (6 a.m.)	*	*	*	*	*	1012·0	+3	90	-3	S	1	-	b	3	-	100	72				
	Alexandria (6 a.m.)	1011·7	72	NNW	6	c	1015·1	+2	72	-5	NW	5	-	o	3	-	81	70				
	Cairo (Helwan 6 a.m.)	1009·9	93	NNW	4	bc	1014·1	+3	73	-22	NW	2	W	bc	0	-	115	70				
YESTERDAY'S REPORTS		...16th..., 8 P.M. G.M.T.					...17th May..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1022·4	0	64	+1	NE	1	-	o	4	-	75	63				
	Turin						1022·4	0	63	+4	-	0	-	o	*	-	75	59				
	Pesaro						1021·0	0	66	+5	NE	1	NW	c	?	-	72	?				
	Leghorn						1020·2	0	68	+4	NE	1	NW	b	4	-	72	59				
	Rome						1017·6	0	68	+5	?N	1	-	b	*	-	79	57				
	Viesti						1015·0	+3	66	+2	NW	2	N	o	3	-	72	57				
	Brindisi						1011·1	0	64	+1	W	1	NW	o	0	Trace	64	63				
	Cagliari						1016·1	0	57	+2	NW	4	NE	b	4	-	75	50				
	Palermo						1015·9	0	66	+2	S	1	-	b	1	-	72	52				
	Tripoli						1017·3	0	61	-3	-	0	-	b	2	Trace	68	55				
	Algiers	1016·8	63	ENE	2	b	1018·1	+2	64	+1	NE	3	-	b	4	-	68	61				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7h.G.m.t. to-day

10,000 feet	NNW	13	miles per hour
9,000 -	N by W	11	- - -
8,000 -	N	5	- - -
7,000 -	NW by N	8	- - -
6,000 -	NW	8	- - -
5,000 -	NW	5	- - -
4,000 -	N by W	3	- - -
3,000 -	ENE	3	- - -
2,000 -	ENE	4	- - -
1,000 -	ENE	9	- - -
Surface	NE	2	- - -

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

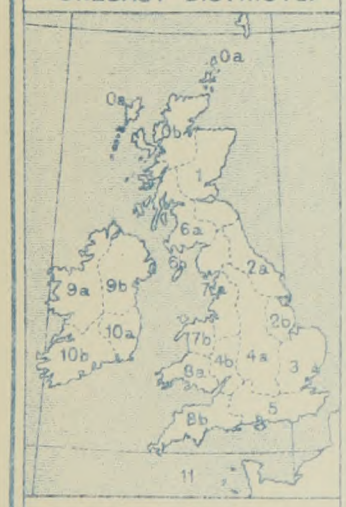
BAROMETER, WIND AND WEATHER FOR 17TH MAY, 1916.



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 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	Calms and light variable breezes,
1	
2 a, b	
3	
4 a, b	fine and warm, morning mist or fog.
5	
6 a, b	
7 a, b	
8 a, b	
9 a, b	
10 a, b	
Western Channel and Bay 11	Light to moderate Easterly breeze; sea moderate; fine, local mist or fog; warm.

FURTHER OUTLOOK.

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

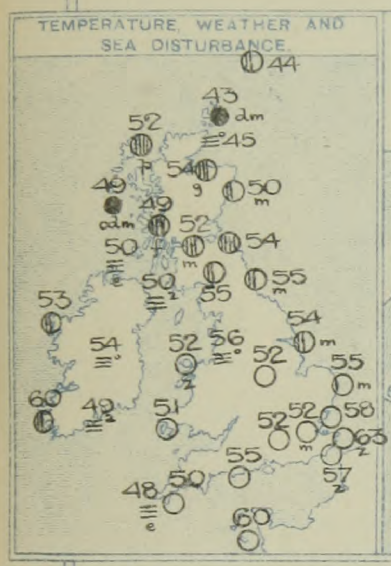
NAPIER SHAW, Director

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 18TH MAY, 1916.

GENERAL INFERENCE.

There are no indications of any important modification in the anticyclonic fine weather type.



EXPLANATION.

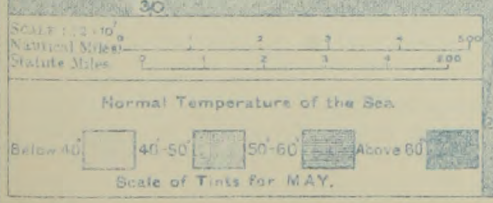
BAROMETER.—Isobars are drawn for intervals of five millibars.

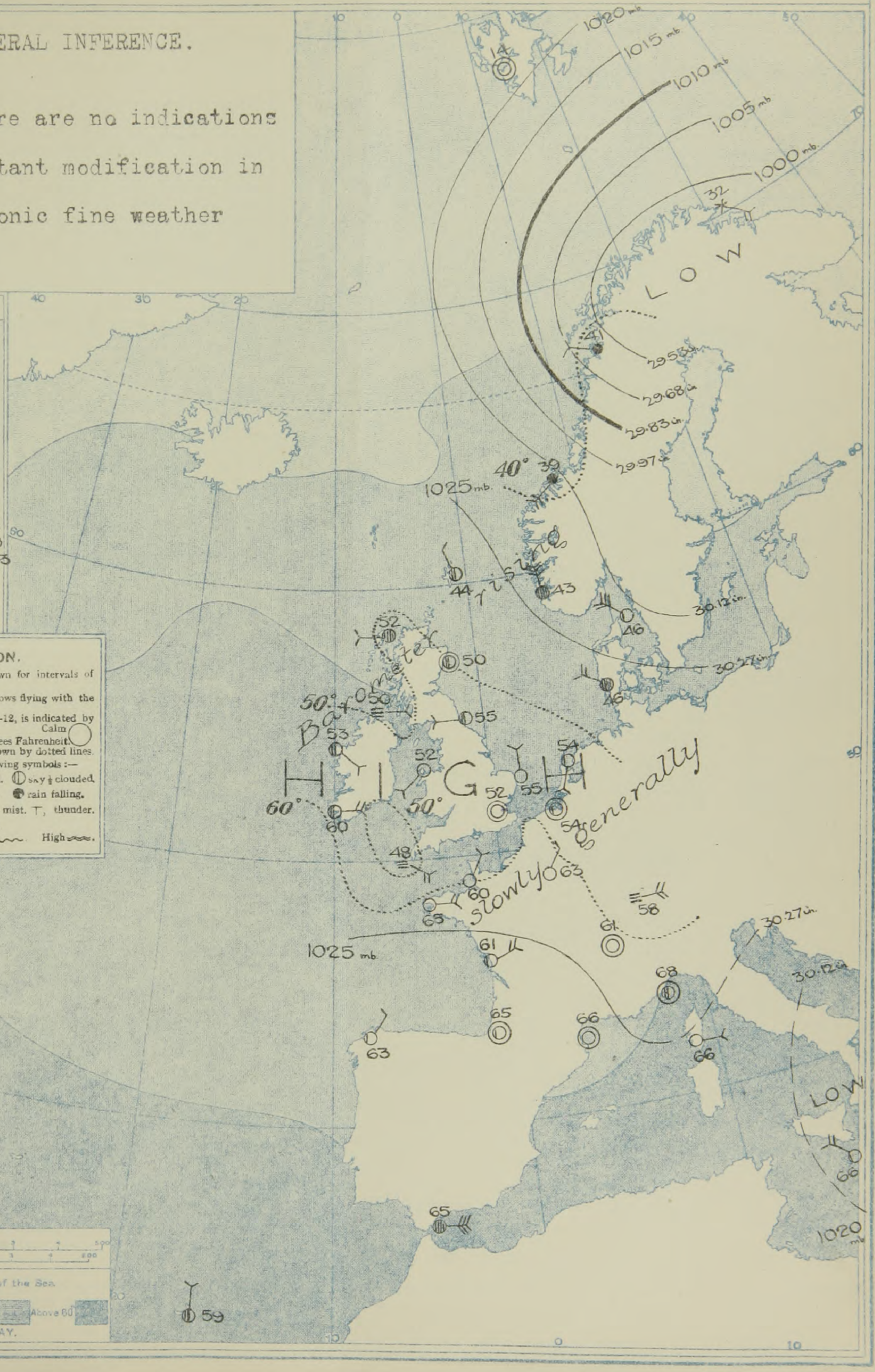
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.





Issue No. 19901

DAILY WEATHER REPORT.

Thursday, 18th May, **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.	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	.	.	.	.	.	1009·9	*	37	−4	ESE	3	*	r	0	—	*	32
Gorki	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Veliki Luki ...	.	.	.	.	.	1012·4	*	46	−8	SW	4	*	.	*	.	*	.
Hangö	997·0	39	SSW	4	f	1003·1	+3	41	−7	WNW	3	*	o	*	11	*	43
Riga	1007·1	48	SW	3	c	1011·5	*	52	−3	SW	3	*	b	*	1	*	37
Petrograd	1002·7	54	S	4	r	1003·5	+2	48	−2	SW	4	−	o	*	6	*	?
Moscow	1017·9	57	SSW	3	bc	1013·5	−4	54	+2	SSW	4	*	o	*	5	63	46
Kiev	1015·5	57	S	3	o	1019·8	+4	52	0	NW	4	*	b	*	—	*	?
Kharkov	1020·2	61	SE	3	o	1019·7	+1	54	0	SE	2	*	r	*	6	*	50
Kishinev	1016·4	64	−	0	c	1021·6	+4	59	+2	N	3	*	o	*	3	*	54
Elisabetgrad ...	1016·7	57	SE	2	bc	1018·3	+3	59	+2	WSW	2	*	r	*	1	*	57
Nicolaiev	1015·8	66	−	0	bc	1018·6	*	63	+2	—	0	*	o	0	15	*	67
Odessa	1016·0	63	SSW	3	o	1019·0	+4	61	0	N	2	*	o	0	—	*	59
Tarkhankout ...	1016·7	41	−	0	c	1019·0	*	59	.	—	0	*	f	0	—	*	59
Soukhoum	1017·9	68	−	0	c	1017·7	?	50	−20	−	0	*	o	c	−	*	57

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	−	51	35	o	o	0·0
	Banff	2	49	45	bc	bc.od	7·1
	St. Andrews	4	50	44	*	*	0·2
	Carnoustie	4	48	42	bc.ov	r	1·7
Eng. N.E.	Harrogate	−	63	43	o.c	o.c.bc	1·3
	Skegness	−	63	43	b	b	12·9
Eng. N.W.	Morecambe	−	58	42	c	bc.b	3·7
	Blackpool						
	Southport	−	65	42	b.bc.b	b	8·2
Midlands.	Buxton						
	Leamington Spa	−	69	45	o.bc	bc.c	8·5
	Malvern	−	66	47	m.b	b	9·0
	Ross-on-Wye	−	68	40	b	b	9·2
Wales.	Rhyl	−	65	44	b	b	10·7
	Colwyn Bay	−	67	47	b	b	10·6
	Llandudno	−	64	47	b	b	10·2
	Aberystwyth	1	58	45	r.o.c	c.bc	8·5
	Tenby	1	59	46	bc	b	5·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	−	59	48	b	b	12·3
	Felixstowe	−	61	47	bm	bm	11·8
	Walton-on-Naze	Trace	61	47	b.bz	b.bz	12·0
	Southend-on-Sea	−	67	49	b	b	11·0
England, S.E.	Margate	−	66	50	b	b	10·4
	Ramsgate	−	61	48	b	b	9·3
	Hastings	−	58	50	o.bc.b	b	7·5
	Eastbourne	−	60	51	of.bc.b	b.bc	8·1
	Seaford	−	61	50	c	b	8·3
	Brighton						
	Worthing	−	62	52	o.bc	b	6·3
	Littlehampton	−	57	53	o	b	5·0
	Bognor						
	Bournemouth	−	62	48	o	b	7·7
England, S.W.	Weymouth	−	65	51	o.c.b	bz	7·7
	Torquay	−	58	50	o	o.c.b.bc	5·8
	Paignton						
	Penzance	−	56	51	of	c	1·1
	Newquay	−	60	52	om.bc.b	b.bem	5·0
	Bude	1	63	47	om.bc.b	b.bcf	4·3
	Ilfracombe	−	54	43	f	f	0·0
	Weston-super-Mare ...	−	62	48	o.c.bc	b	6·0

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.) ...	60	62	10·5	72	46	35	−	bc	b	bm
City (Bunhill Row)	*	*	8·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	66	10·7	69	48	43	−	b	b	bm.
Camden Sq. (Brit. Rainfall)	57	55	10·5	72	49	44	−	b	b	*
Hampstead (Reservoir) ...	*	60	10·0	68	51	33	−	b	b	b
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	10·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	57	55	10·6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1906 Joules	33·9 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.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	71	52	47	o.c.bz	bc.b	b.	*

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

18th & 19th May, 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.55 / 3.53	11.149 / 11.149	7.142 / 7.144
Greenwich	4.6 / 4.5	11.56 / 11.56	7.46 / 7.47
Wick	3.42 / 3.40	12.8 / 12.8	8.36 / 8.37
Valencia	4.46 / 4.44	12.37 / 12.37	8.28 / 8.29

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 71° in London, but did not pass 45° at Lerwick and 48° at Wick. Showers fell at most northern stations. Sunshine varied greatly, none at several 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.

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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. 140

Friday, 19th. May.

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1032·3	45	SSE	2	bc	1032·6	0	46	+2	S	3	-	o	2	-	50	43	bc	bc	o	*
	Deerness (Orkney)	1030·5	46	SE	3	f	1030·5	*	45	+2	SE	3	-	f	2	1	46	42	dm.f	f	f	0·0
	Stornoway ...	1028·6	58	S	1	bz	1028·7	0	52	0	S	1	-	bcz	1	-	58	44	oz	o.bc.bz	b.bcz	4·5
	Castlebay (Barra Isd.)	1029·3	52	E	1	o	1028·0	0	55	+6	E	3	w	bcz	3	Trace	57	48	dm	fe	of.bcz	0·0
	Glasgow ...	1028·8	70	W	1	b	1030·6	0	49	-3	ENE	1	-	nc	*	Trace	70	47	cm.bz	bz	bmc	9·8
	Eskdalemuir ...	1028·8	68	SSW	3	bv	1029·0	0	58	+3	-	0	-	bzw	*	-	71	48	bc.b.bz	b.bv	bc.b.	12·7
	Malin Head ...	1026·7	58	SSE	3	bcm	1026·8	0	58	+8	S	3	S	bcm	2	-	62	49	f	bcm	bcm	9·6
	Blacksod Point	1026·6	65	WSW	2	bz	1025·5	0	59	+6	SE	1	SW	bc	1	-	66	52	bz	bz	bc	*
	Valencia ...	1025·5	66	SE	3	c	1024·6	-1	64	+4	E	3	S	c	2	-	72	59	bc.b	b.bc	c	11·2
	Roche's Point	1028·7	55	SE	2	bc	1027·9	*	57	+8	E	2	S	bc	2	0·2	58	48	f.bc	f.bc	bcm.bc	*
	Birr Castle ...	1027·8	68	S	1	c	1028·4	*	63	+9	SE	1	-	c	*	-	72	53	c	c	c.	12·6
	Donaghadee ...	1029·0	50	SE	3	bcm	1029·4	0	52	+2	-	0	-	bcf	0	-	54	46	bf	bf	bcm	*
	Liverpool (Bidston)	1028·3	72	E	1	b	1029·4	0	64	+8	ESE	1	-	b	1	-	74	56	bm	b	bcm	12·2
	Holyhead ...	1027·0	55	NW	3	cm	1029·5	0	54	+2	NE	2	-	cm	1	-	58	51	bz	bm.cm	b.o cm	11·7
	Pembroke (St. Ann's)	1030·0	56	SE	2	b	1030·0	0	57	+6	E	3	-	b	1	-	67	57	b	b	b	14·1
	Scilly (St. Mary's)	1028·1	56	ESE	4	bm	1027·8	0	55	+7	ESE	4	-	bm	4	-	60	46	f.bm	bm.	bm	9·5
	Falmouth ...	1028·1	60	SE	2	bz	1028·2	0	57	+7	E	1	-	bw	*	-	63	49	b	b.	bw	13·0
	Jersey (St. Aubin)	1027·3	69	E	4	b	1028·0	*	65	+5	E	2	-	bm	1	-	75	58	b	b.	bm	14·2
	Portland Bill ...	?	57	E	1	b	1029·4	0	55	0	E	3	-	b	2	-	60	52	bc.b	b.	b.	*
	Dungeness ...	1029·3	56	NE	3	bz	1030·6	+1	55	-2	NE	3	NE	bz	3	-	64	51	bz	bz	bwz	*
	Dover	1030·6	59	NE	3	b	1031·6	+1	59	-4	NE	2	-	b	2	-	70	48	b	b	bw	13·4
	Wick	1030·3	49	-	0	m	1030·7	0	45	0	SSE	2	-	fe	2	0·3	49	44	fe.om	omg	bcm fe	*
	Nairn	1028·8	58	E	2	bc	1029·9	*	49	-5	-	0	-	me	1	0·1	64	47	c.bc.c	c.bc	bcmz	6·7
	Aberdeen ...	1030·8	51	ESE	1	c	1031·5	0	45	-5	S	2	-	me	2	-	61	45	bcz	c.o c	c bm.fe	5·6
	Leith	1028·5	55	NE	1	bc	1030·4	0	50	-4	E	1	-	f	2	-	71	49	o.c.bc.b	b	bcf	*
	Tynemouth ...	1029·2	56	SE	2	bm	1030·7	0	50	-5	SSE	2	-	bm	2	-	68	47	bm	bm.	bm.	*
	Spurn Head ...	1031·4	52	ESE	4	bcm	1032·3	0	50	-4	SSE	2	-	cm	3	-	70	49	bcm	bcm	bcm	9·6
	Yarmouth ...	1031·2	54	ESE	1	b	1032·5	+2	52	-3	SE	2	-	bm	2	-	64	48	bm	bm.	bm.	13·0
	Clacton-on-Sea	1030·6	60	ESE	2	b	1032·3	+1	56	-2	E	2	SE	bc	1	-	63	51	bz	bz	bzw.bc	13·5
	Nottingham ...	1029·1	73	SSE	1	b	1031·2	*	59	+7	SW	1	-	b	*	-	77	52	b	b	b	12·1
	Benson (Oxon.) ...	1028·7	72	SE	1	b	1031·2	0	62	+10	SE	2	W	b	*	-	76	51	b	b.	b.	*
	Sth Farnborough	1028·6	72	SE	2	b	1030·9	0	57	+7	-	0	-	bm	*	-	77	49	m.b.	bz	bf.m	?
	London (Kew Obsy.)	1029·2	73	SE	2	bz	1031·9	0	57	+5	E	2	NE	bmw	*	-	75	50	bm.bzw.cz	cz bz	cz bm.bmw	11·6
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1007·8	30	NNE	3	o	1015·0	+3	27	-5	NE	4	-	o	4	*	32	27				
	Bodö	1013·1	43	N	2	c	1021·9	+3	39	-2	N	2	N	c	2	-	43	37				
	Christiansund	1027·7	39	W	3	c	1030·4	+2	39	0	WNW	3	-	c	4	3	41	37				
	Skudesnaes ...	1029·0	43	NNW	5	b	1030·9	0	45	+2	N	5	-	b	2	-	63	39				
	Færder (Chria Fjord)																					
	The Scaw (Skagen)	1019·9	54	WNW	4	b	1023·9	+2	48	+2	N	3	NW	b	3	-	55	45				
	Blaavands Huk	1027·5	48	NW	5	bc	1028·2	+1	45	-1	NNW	6	-	c	5	-	50	43				
FRANCE, &c.	The Helder ...	1029·9	55	NNW	3	b	1032·6	+2	50	-4	N	2	-	b	1	-	59	48				
	C. Gris Nez ...	1029·5	56	ENE	3	b	1030·7	0	56	-1	E	4	*	b	2	-	64	52				
	La Hève	1027·5	70	NE	3	m	1029·2	*	60	+1	E	3	*	m	1	-	75	59				
	Brest (St. Mathieu)	1025·9	77	NNE	1	b	1026·7	0	66	+1	E	3	*	b	2	-	81	52				
	Rochefort (Ile d'Aix)	1024·0	73	N	3	b	1023·8	0	65	+4	ENE	4	*	b	*	-	88	59				
	Biarritz	1020·8	71	NE	2	b	1022·6	+2	64	-1	SSE	1	*	b	1	-	73	63				
	Paris	1027·0	72	NNE	2	b	1029·2	+2	64	+1	ENE	1	-	b	*	-	79	54				
	Belfort	1025·6	72	-	0	m	1028·8	*	60	+2	E	5	*	m	*	-	76	50				
	Lyons	1023·9	75	N	2	c	1025·1	*	61	0	N	1	*	b	*	-	82	61				
	Nice	1022·1	70	-	0	b	1021·0	+1	73	+5	-	0	*	b	0	-	79	59				
	Perpignan ..	1022·7	73	-	0	b	1022·4	0	70	+4	-	0	-	b	*	-	82	52				
	Sanguinaire ...	*	68	S	1	bc	*	*	68		E	2	*	b	2	-	77	61				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1021·2	64	WSW	2	bc	1024·3	+3	59		N	3	-	f	1	-	75	55				
	Madrid (8 a.m.)	1019·7	81	SSE	2	b	1024·6	+1	66	+2	-	0	-	b	*	-	82	57				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1009·3	*	SW	7	b							*									
	Madeira (Funchal)	1022·6	64	N	2	o	1024·4	+1	57	-2	N	2	-	b	2	-	64	57				
	Gibraltar	1023·7	65	E	3	c	1023·3	*	65	0	E	5	*	bc	2	Trace	70	63				
	Malta (8 a.m.) ...	*	*	*	*	*	1024·3	+2	64	-2	N	2	-	b	0	-	75	61				
	Limassol (6 a.m.)	*	*	*	*	*	1010·6	+3	79	-11	-	0	-	c	3	-	100	72				
	Alexandria (6 a.m.)																					
	Cairo (Helwan) (6 a.m.)																					
	YESTERDAY'S REPORTS	....17th...., 8 P.M. G.M.T.					....18th. May., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice																					
	Turin						1024·3	0	64	+1	-	0	-	bc	*	-	77	59				
	Pesaro						1023·1	0	66	0	WNW	2	-	b	4	-	73	54				
	Leghorn						1023·3	0	68	0	-	0	-	b	0	-	77	59				
	Rome						1020·6	0	68	0	NE	1	-	b	*	-	81	59				
	Viesti						1019·9	0	66	0	W	1	SW	o	3	-	72	57				
	Brindisi						1017·6	0	63	-1	N	1	-	c	3	6	64	61				
	Cagliari						1020·6	0	59	+2	NW	4	N	b	3	-	79	50				
	Palermo						1019·7	0	66	0	E	2	N	bc	1	-	79	54				
	Tripoli						1019·9	0	64	+3	-	0	-	b	1	-	70	52				
	Algiers	1018·6	63	NE	3	b	1020·0	+3	63	-1	NNE	3	-	m	4	-	72	61				

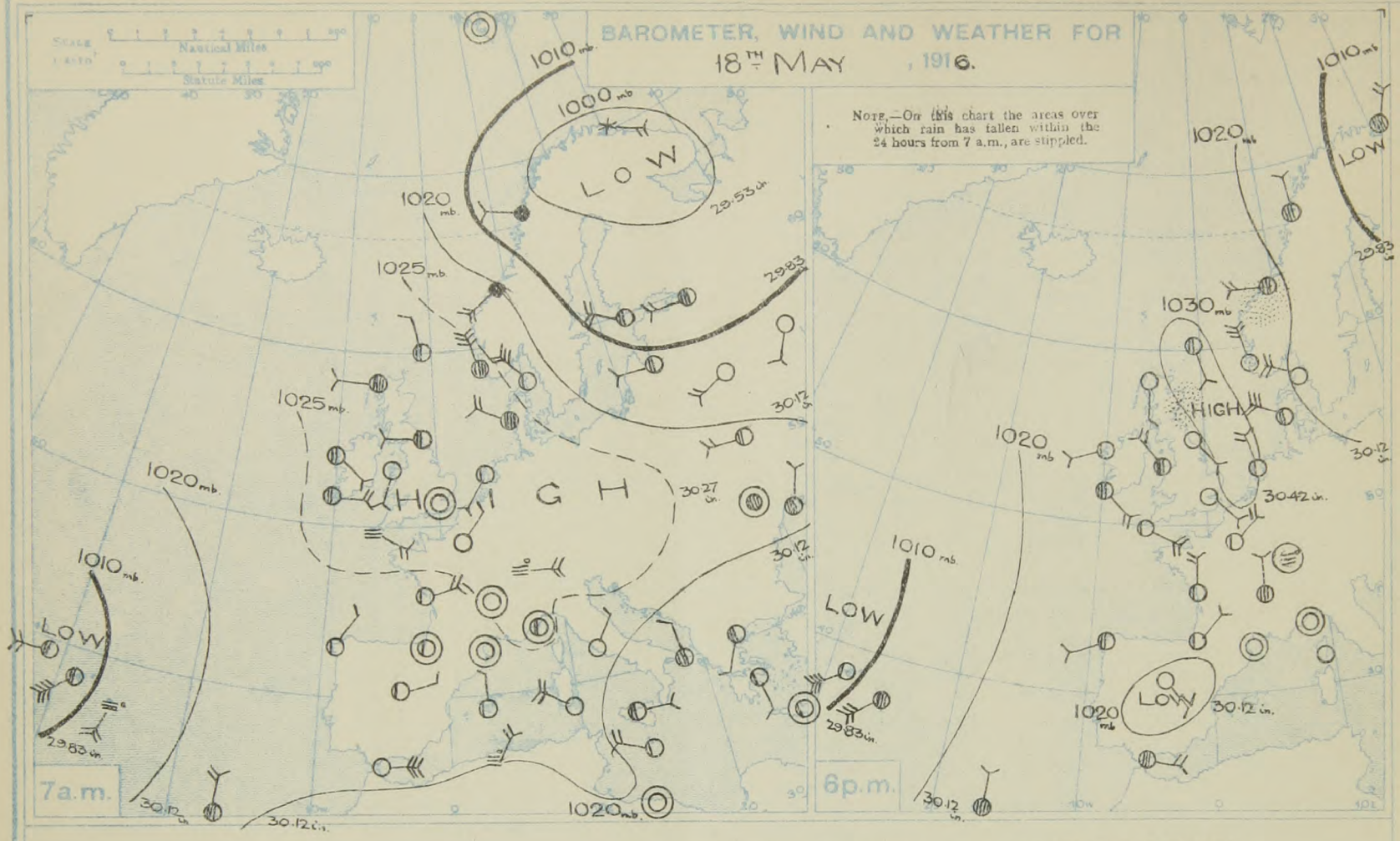
UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at 6.55 a.m. to-day

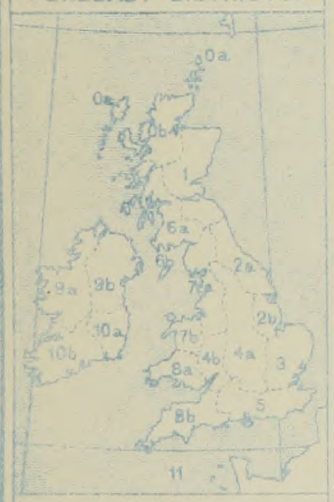
10,000 feet	NE	3	miles per hour
9,000 "	E by N	3	" " "
8,000 "	E	5	" " "
7,000 "	SE by E	5	" " "
6,000 "	SE	5	" " "
5,000 "	SE	5	" " "
4,000 "	ESE	9	" " "
3,000 "	E	13	" " "
2,000 "	SE by E	20	" " "
1,000 "	SE by E	12	" " "
Surface	E by N	4	" " "

* 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	Calms and light breezes between
	b	
1		
2	a	
	b	
3		
4	a	
	b	
5		
6	a	South and East; fine, morning mist; warm.
	b	
7	a	
	b	
8	a	
	b	
9	a	
	b	
10	a	
	b	
Western Channel and Bay	11	Light to moderate Easterly breezes; sea moderate; fine, local mist or fog; warm.

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., FRIDAY, 19TH MAY, 1916.

GENERAL INFERENCE.

The anticyclonic fine weather will continue.

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 MAY.

1020 mb. 1015 mb. 1025 mb. 1030 mb. 1030 mb. 1025 mb.

LOW. LOW.

HIGH

Barometer steady.

Barometer falling.

Rising. Rising. Rising.

29.57 in. 30.12 in. 30.27 in. 30.42 in. 30.42 in. 30.27 in. 30.27 in.

32° 40° 50° 60° 60° 70°

Issue No. 19902

DAILY WEATHER REPORT.

Tuesday, 19th May 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	17th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	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.	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	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Gorki	1016·6	48	–	0	b	1011·5	+2	50	.	WSW	3	*	b	*	1	*	41
Veliki Luki ...	.	.	.	.	.	1008·4	*	45	-1	SSW	3	*	o	*	1	*	43
Hangö	1006·6	41	WSW	3	b	1005·9	0	41	0	WNW	4	*	bc	1	–	*	41
Riga	1010·4		SW	2	o	1010·3	+1	45	-7	W	2	*	bc	*	3	*	41
Petrograd	1007·4	46	WSW	3	o	1004·6	-2	43	-5	W	3	W	c	*	1	54	41
Moscow	1016·0	54	SSW	2	b	1013·9	+3	50	-4	SW	2	*	b	*	3	*	45
Kiev	1023·1	54	WNW	2	b	1021·3	+1	54	+2	W	3	*	bc	*	–	*	46
Kharkov	1021·3	55	NW	1	b	1022·3	o	52	-2	–	o	*	c	*	9	*	43
Kishinev	1024·0	63	N	1	o	1023·7	o	57	-2	–	o	*	o	*	–	*	54
Elisabetgrad ...	1023·3	59	NNW	2	bc	1022·6	+1	55	-4	NNW	2	*	c	*	2	*	45
Nicolaiev	1022·0	64	N	3	c	1021·9	*	59	-4	NNE	2	*	c	*	–	*	55
Odessa	1022·6	64	ENE	3	o	1022·0	o	61	o	E	3	*	o	*	–	*	59
Tarkhankout ...	1020·2	54	NE	4	b	.	.	.	.	.	.	*	.	.	.	*	.
Soukhoum	1019·7	66	–	o	c	1020·0	*	72	+22	–	o	*	o	o	–	*	?

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	64	47	b	b	5·8
	Banff	3	61	43	o.bc	bc	4·5
	St. Andrews						
	Carnoustie	0·4	62	53	b	b	9·0
Eng. N.E.	Harrogate	–	75	50	b	b.bc.	10·2
	Skegness	–	65	50	b	b	12·6
Eng. N.W.	Morecambe	–	70	45	bc-b	b	12·5
	Blackpool						
	Southport	–	71	46	b	b	13·0
Midlands.	Buxton	–	74	48	bc	bc	10·0
	Leamington Spa	–	75	46	b	b	12·8
	Malvern	–	75	42	b	b	13·0
	Ross-on-Wye	–	76	42	b	b	11·7
Wales.	Rhyl	–	67	46	b	b	12·4
	Colwyn Bay	–	63	49	b	bc	12·5
	Llandudno	–	65	49	b	b	12·4
	Aberystwyth	–	63	45	c. b	b. bc	12·5
	Tenby	–	69	44	b	b	10·9

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	–	61	48	b	b	12·0
	Felixstowe	–	62	50	bm	bm	12·5
	Walton-on-Naze	–	64	51	b.bz.b	b	12·3
	Southend-on-Sea	–	68	51	b	b	11·0
England, S.E.	Margate	–	62	50	b	b	12·5
	Ramsgate	–	67	49	bz	bz	12·7
	Hastings	–	69	50	b	b	13·1
	Eastbourne	–	67	47	b	b	13·0
	Seaford	–	74	45	b	b	13·5
	Brighton						
	Worthing	–	68	47	b	b	13·0
	Littlehampton	–	65	56	b	b	12·5
	Bognor						
	Bournemouth	–	71	44	b	b	13·0
England, S.W.	Weymouth	–	68	47	z.b	bz	13·0
	Torquay	–	65	45	b	b	12·6
	Paignton	–					
	Penzance	–	65	48	b	b	11·4
	Newquay	–	68	58	b	b	13·0
	Bude	–	73	42	b	b	13·2
	Ilfracombe	–	66	56	f b	b	9·5
	Weston-super-Mare ...	–	72	42	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.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	46	73	12·6	76	49	47	–	b	b	bm.bc
City (Bunhill Row)	*	*	12·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	53	77	12·6	76	53	49	–	b	b	bc.b.
Camden Sq. (Brit. Rainfall)	89	64	10·7	81	51	46	–	b	b	*
Hampstead (Reservoir) ...	*	67	13·2	74	49	38	–	b	b	bc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	11·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	40	61	13·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1788 Joules	31·7 Milliwatts.	55 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.	–	62	51	48	bm	b	bc	*
Darwen to 9 p.m.	–	72	45	42	bcw	bc	bc	6·9
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	77	51	44	b.bz	bz	b	*

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

19th. to 20th. May 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3.53 / 3.51	11.49 / 11.49	7.46 / 7.46
Greenwich	4.5 / 4.4	11.56 / 11.56	7.47 / 7.48
Wick	3.40 / 3.38	12.8 / 12.8	8.37 / 8.39
Valencia	4.44 / 4.43	12.37 / 12.37	8.29 / 8.30

NOTES ON YESTERDAY'S WEATHER.

Warmth was general, temperature exceeding 70° in many places. Deerness had no sunshine, and Castlebay under an hour, but as a rule the records were large, Jersey and Pembroke registering more than 14 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. 141

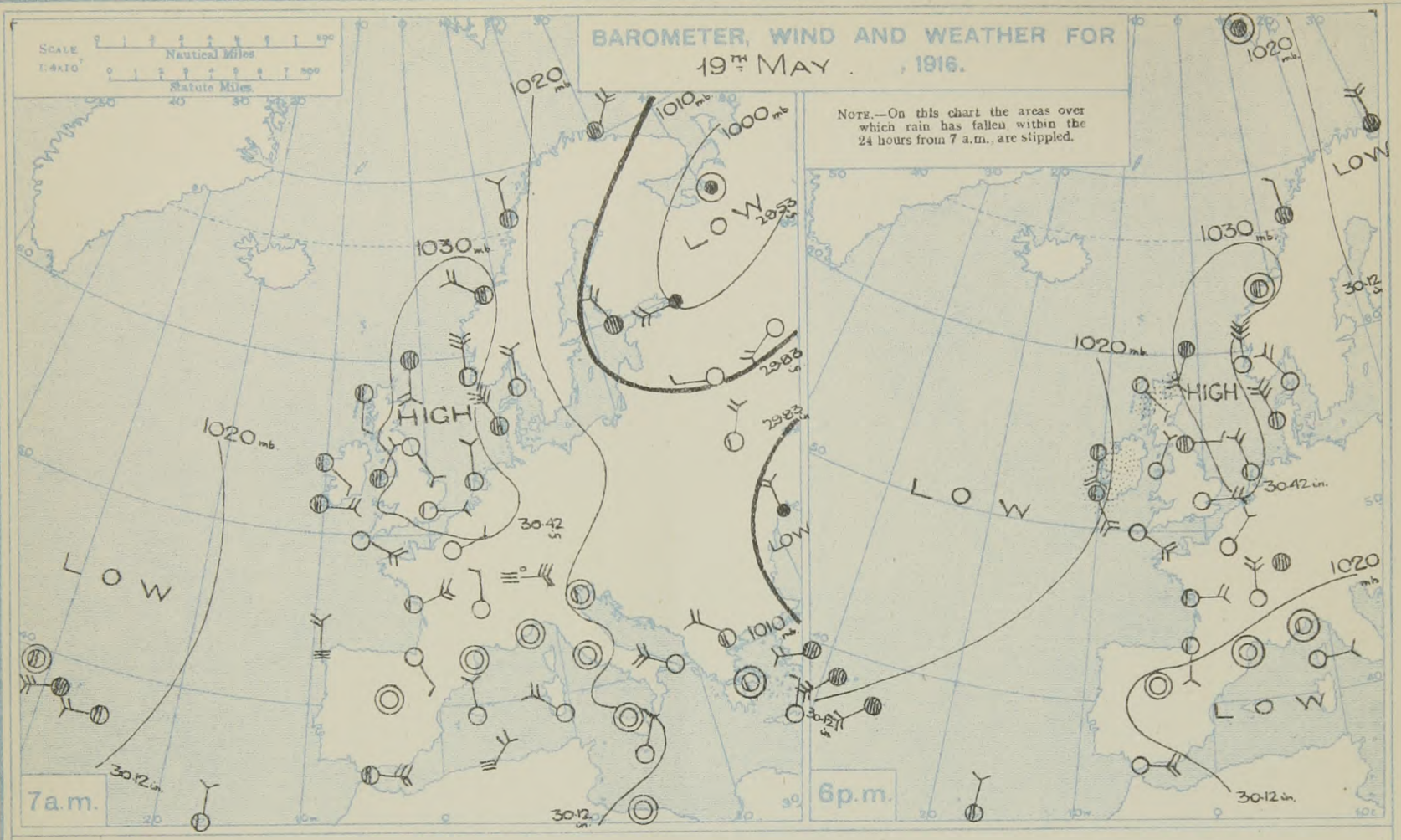
Saturday, 20th May,

	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 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·3	46	SSW	3	om	1022·8	-2	47	+1	S	4	SW	c	3	-	47	43	om	om	c	*
	Deerness (Orkney)	1027·7	46	SE	4	f	1019·6	*	46	+1	SE	4	-	f	3	-	47	45	f	f	f	0·0
	Stornoway ...	1024·5	63	SE	1	bz	1017·8	-2	57	+5	S	1	-	oz	1	-	66	43	b	bz	bc.oz	12·0
	Castlebay (Barra Isd.)	1023·2	62	E	4	bm	1018·6	-1	51	-4	SSE	4	-	fr	4	3	65	49	bcz	bcz.bm	bc.m.fr	13·4
	Glasgow ...	1026·3	59	E	3	b	1023·4	-3	47	-2	ENE	1	-	m	*	-	69	45	m.bz	bz	bmc.	8·7
	Eskdalemuir ...	1026·0	71	SW	2	bz	1023·1	-1	59	+1	-	0	SW	bcw	*	-	74	48	bz.bcz	bz	bz.bm	13·2
	Malin Head ...	1021·9	72	SE	4	bcz	1019·1	0	66	+2	S	3	S	cmp	2	-	72	56	bcz	bcz	cm	12·6
	Blacksod Point	1019·2	73	S	3	bc	1019·4	0	63	-6	SW	4	SW	cmg	3	3	75	51	bc	bc	cm.omr	*
	Valencia ...	1019·2	68	SSE	4	bc	1022·6	+2	54	-10	S	2	SW	c	2	1	75	54	bc.bz	b.bcz	cz.opz.od	11·3
	Roche's Point	1024·3	58	E	3	b	1023·6	*	55	-2	SW	2	-	o	2	0·1	61	52	bc.bz	bz	bz.o	*
	Birr Castle ...	1022·3	69	SE	1	c	1021·4	*	59	-4	S	1	-	m	*	1	76	56	c	c	cp.z	10·7
	Donaghadee ...	1025·2	58	SE	3	bm	1021·1	-3	56	+4	SSE	3	S	cm	2	-	67	50	bm	bcm	bm.cm	*
	Liverpool (Bidston)	1025·6	75	SE	3	b	1023·4	-1	62	-2	SE	3	SE	b	2	-	78	56	b.o.b	b	bc.	12·6
	Holyhead ...	1025·6	70	NE	2	bz	1022·3	-1	60	+6	S	3	-	bz	2	-	76	54	c.bm	bz	b.bc.c	12·6
	Pembroke (St. Ann's)	1026·7	62	ESE	3	b	1023·5	0	56	-2	SE	3	S	bc	2	-	66	54	b	b	b.	13·9
	Scilly (St. Mary's)	1025·1	57	ESE	4	bm	1024·5	+1	51	-4	NW	3	-	fc	3	-	60	51	bm	bcm.	bcm.fc	13·0
	Falmouth ...	1025·5	59	E	2	bz	1024·0	0	52	-5	ENE	3	-	bc	*	-	63	53	b	b	b.bc.	13·2
	Jersey (St. Aubin)	1025·0	72	E	4	b	1025·5	*	64	-1	E	1	-	b	1	-	77	56	bm.b	b	b	14·0
	Portland Bill ...	1027·2	56	ENE	3	b	1025·9	0	56	0	ENE	3	-	b	2	-	60	53	b	b	b.	*
	Dungeness ...	1028·1	55	NE	4	b	1027·2	0	56	+1	E	2	-	b	2	-	60	49	bcz	bc	bw	*
	Dover	1029·6	56	NE	1	b	1027·8	0	58	-1	SE	1	-	b	2	-	66	50	b	b.bc.c.b	b	10·1
	Wick	1027·5	47	SE	3	f	1019·8	-4	46	+1	SSE	3	-	fc	3	0·1	47	44	fc	fc	fc	*
	Nairn	1026·1	51	E	1	bcf	1020·3	*	48	-1	-	0	-	fc	1	0·2	54	44	f	f bc.	bc.fc	2·2
	Aberdeen ...	1029·0	47	SSE	3	mc	1023·2	-3	47	+2	SSE	2	-	om	2	-	48	45	f.mc	bm.mc	mc.f.om	0·0
	Leith	1028·2	48	E	1	m	1022·8	-2	46	-4	NE	1	-	m	3	-	56	46	f.o.c	c.om	f	*
	Tynemouth ...	1027·8	51	E	1	cm	1024·3	-1	51	+1	ENE	1	-	bf	2	-	56	45	bm	cm.	f	*
	Spurn Head ...	1028·8	56	SE	4	bc	1026·9	0	54	+4	S	4	-	bm	4	-	59	50	bcm	bcm.	bcm	7·2
	Yarmouth ...	1030·0	52	SSE	3	b	1027·9	0	54	+2	SW	2	-	bc	2	-	55	50	bm.bcm	bm.bcm	bc	13·5
	Clacton-on-Sea	1029·7	56	E	2	bc	1027·9	0	55	-1	SSE	3	-	b	2	-	57	52	bc.cm.z	bc	bc.bw	10·3
	Nottingham ...	1027·5	72	S	2	b	1026·0	*	60	+1	S	1	-	b	*	-	76	52	b	b	b	11·7
	Benson (Oxon.) ...	1027·6	73	ESE	2	b	1026·5	0	61	-1	SSE	3	-	b	*	-	75	51	b	b.	b	*
	Sth Farnborough	1027·3	74	SSE	2	b	1026·4	0	60	+3	SE	1	-	bmw	*	-	77	48	m.b	b	bmw	13·4
	London (Kew Obsy.)	1028·0	70	E	3	bm	1027·5	0	59	+2	-	0	-	bm	*	-	74	50	cmw.bcw	bz.bcz.bm	bm	12·7
NORTHERN EUROPE.	Spitsbergen ...	1023·7	28	-	0	0	1022·4	0	19		-	0	*	o	*	*	32	19				
	Vardö	1018·1	28	N	4	o	1014·4	+2	27	0	N	4	-	s	4	*	28	23				
	Bodö	1026·6	39	N	1	o	1024·7	-1	39	0	N	1	-	o.	1	-	39	36				
	Christiansund	1031·3	45	-	0	c	1025·9	-2	43	+4	-	0	-	o	3	-	45	34				
	Skudesnaes ..	1028·6	45	N	6	b	1025·9	0	50	+5	E	2	-	b	2	-	57	45				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1023·9	52	NW	3	b	1025·9	0	48	0	ENE	2	-	b	2	-	55	46				
	Blaavands Huk	1026·7	50	NNW	5	bc	1027·7	0	48	+3	-	0	-	b	1	-	48	37				
FRANCE, &c.	The Helder ...	1030·6	54	NNW	2	b	1028·4	0	52	+2	NE	1	-	c	0	-	57	50				
	C. Gris Nez ...	1028·0	56	NE	4	bc	1027·4	0	57	+1	E	1	*	b	0	-	61	48				
	La Hève	1026·4	75	E	1	b	1025·9	*	61	+1	ESE	3	*	m	2	-	77	59				
	Brest (St. Mathieu)	1023·8	69	N	2	b	1026·3	+1	68	+2	E	1	*	b	1	-	88	54				
	Rochefort (Ile d'Aix)	1021·3	81	E	3	b	1022·9	+1	63	-2	E	2	*	b	*	-	90	57				
	Biarritz	1020·4	69	S	2	b	1024·2	+2	58	-6	W	4	*	m	3	-	77	57				
	Paris	1026·1	72	NE	2	b	1027·0	b	59	-5	NE	1	-	b	*	-	79	50				
	Belfort	?	65	E	4	m	1026·4	*	55	-5	E	6	*	m	*	-	72	48				
	Lyons	1021·2	73	N	4	b	1022·6	*	61	0	N	2	*	b	*	-	81	56				
	Nice	1017·6	70	-	0	b	1017·1	0	69	-4	-	0	*	b	0	-	79	59				
	Perpignan ..	1018·4	77	-	0	b	1018·0	0	79	+9	NW	3	-	b	*	-	88	64				
	Sanguinaire ...	*	75	E	2	b	*	*	65	-3.	E	2	*	b	2	-	79	57				
SOUTHERN STATIONS.	Corunna (7 a.m.) †	1024·6	57	WNW	2	f	1026·3	0	55	-4	N	2		f	0	-	64	56				
	Madrid (8 a.m.)	1017·1	82	-	0	b	1019·5	+1	72	+6	NE	1	-	b	*	-	84	63				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1019·0	*	SW	5	o							*									
	Madeira (Funchal)	1023·5	64	N	2	bc	1021·6	-1	59	+2	NNE	3	-	b	2	-	64	57				
	Gibraltar	1022·3	67	E	4	b	1021·3	*	69	+4	E	4	*	m	1	-	73	58				
	Malta (8 a.m.) ...	*	*	*	*	*	1018·4	+1	70	+6	WNW	1	-	b	0	-	73	63				
	Limassol (6 a.m.)	*	*	*	*	*	1009·2	+2	75	-4	W	3	W	b	3	-	90	55				
	Alexandria (6 a.m.)	1014·4	68	NW	4	b	1013·9	0	70	0	WNW	3	NW	c	2	-	75	66				
	Cairo (Helwan) 6 a.m.	1012·7	75	N	3	b	1012·4	+1	70	0	N	2	-	b	*	-	88	63				
	YESTERDAY'S REPORTS	....18th...., 8 P.M. G.M.T.					..19th May...., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1018·9	-2	66	.	NW	1	-	b	2	-	79	63				
	Turin						1021·2	0	70	+6	-	0	-	b	*	-	79	63				
	Pesaro						1020·4	0	64	-2	SSW	1	NW	m	2	-	75	52				
	Leghorn						1021·3	0	68	0	-	0	-	b	*	-	82	59				
	Rome						1021·0	0	66	-2	NNW	1	-	b	*	-	81	54				
	Viesti						1019·0	+1	70	+4	NW	1	-	b	2	-	70	59				
	Brindisi						1017·5	0	64	+1	NW	4	-	b	5	-	66	63				
	Cagliari						1020·4	0	61	+2	NW	3	-	b	2	-	79	50				
	Palermo						1021·6	0	70	+4	-	0	-	b	1	-	75	54				
	Tripoli						1019·6	+2	70	+6	-	0	-	b	0	-	73	54				
	Algiers	1021·3	64	NNE	3	b	1021·9	+1	61	-2	NE	3	-	m	3	-	72	59				

UPPER AIR.
South Faraborough.
Pilot Balloon Ascent at 6.44 a.m. to-day.

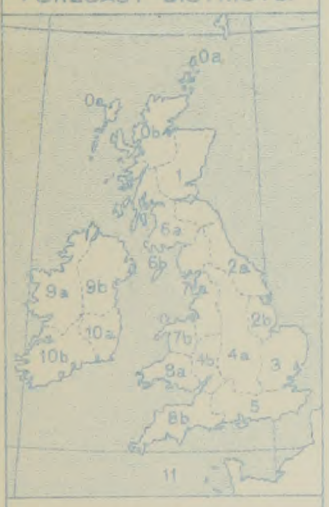
9,000	feet	SW	9 miles per hour
8,000	"	SW by S	10 " " "
7,000	"	SSW	9 " " "
6,000	"	SW by S	9 " " "
5,000	"	SSW	9 " " "
4,000	"	S by W	10 " " "
3,000	"	S	11 " " "
2,000	"	S	17 " " "
1,000	"	S	18 " " "
Surface		S by E	7 " " "

* 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 Coast.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

0 a, b; 1	Light to moderate Southerly and South-Westerly breezes; changeable, some showers, mist or fog; moderate temperature.
2 a, b; 3	Light variable breezes; fine and warm;
4 a, b; 5	morning mist.
6 a, b	Same as Nos. 0 and 1.
7 a, b; 8 a, b	Same as Nos. 2 to 5.
9 a, b	Same as Nos. 0 and 1.
10 a, b	Same as Nos. 2 to 5.
Western Channel and Bay 11	Light Easterly breeze; sea slight; fine, local mist or fog; warm.

FURTHER OUTLOOK.

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

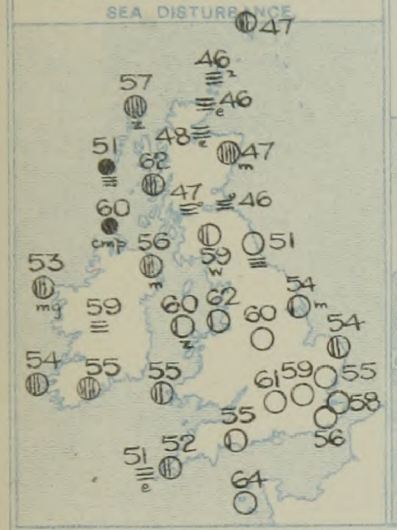
Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 20th MAY, 1916.

GENERAL INFERENCE.

A depression in the neighbourhood of Iceland will have some influence on our north-west and north coasts, but otherwise the anticyclonic fine type will be maintained.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

Scale 1 : 12 x 10^6
Nautical Miles 0 1 2 3 4 5 6°
Statute Miles 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

Issue No. 19 903

DAILY WEATHER REPORT.

Saturday, 20th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	18th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	19th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 8 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	.	.	.	.	.	996·7	*	41	.	—	0	0	r	4	2	*	36
Gorki	1011·0	41	W	1	b	1011·1	+2	43	-7	WNW	1	*	b	4	-	8	34
Veliki Luki ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Hangö	1006·3	43	S	8	o	1006·7	+3	44	0	NNW	3	*	o	*	—	*	36
Riga	.	.	.	.	.	1009·9	+1	43	-2	NW	3	*	o	4	-	*	37
Petrograd	1001·7	43	WSW	4	o	999·7	+1	41	-2	W	4		r	*	6	50	41
Moscow	1008·6	41	WNW	3	b	1009·5	0	43	-7	WSW	3	*	b	*	2	*	39
Kiev	1015·0	57	NNW	4	o	1012·7	+1	48	-6	NNE	3	*	b	*	1	*	45
Kharkov	1015·9	55	—	0	b	1009·2	+3	50	-2	NNE	4	*	o	*	-	*	46
Kishinev	1017·0	61	—	0	o	1012·7	?	?	.	?	?	*	?	*	?	*	?
Elisabetgrad ...	1015·9	55	—	0	bc	1009·5	+4	52	-3	N	2	*	o	*	—	*	50
Nicolaiev	1015·8	63	NE	2	o	1008·2	*	58	-4	N	3	*	r	*	9	*	54
Odessa	1016·0	57	ENE	3	r	1009·2	+2	55	-6	NNW	4	*	r	*	11	*	54
Tarkhankout ...	1011·9	64	N	5	bc	1005·6	?	59	.	NNE	5	*	o	*	1	*	57
Soukhoum	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

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	-	42	47	b	b	14·2
	Banff	-	57	46	bc	bc.b.	9·8
	St. Andrews	-	50	46	f	f	0·0
	Carnoustie	-	50	45	o	odm	0·0
Eng. N.E.	Harrogate	-	76	49	bc.b.	b.bc.c.	9·1
	Skegness	-	63	51	b	b.	9·7
Eng. N.W.	Morecambe	-	73	55	b	b	12·5
	Blackpool						
	Southport	-	78	53	bc.b	b	11·6
Midlands.	Buxton	-	72	50	bc	bc	10·0
	Leamington Spa	-	76	53	bc	bc.b	12·5
	Malvern	-	76	55	b	b	13·0
	Ross-on-Wye	-	76	49	b	b	13·3
Wales.	Rhyl	-	76	52	b	b	11·6
	Colwyn Bay	-	73	52	bc	bc	11·0
	Llandudno	-	73	47			11·1
	Aberystwyth	-	78	54	c.b	bc.c	12·0
	Tenby	-	67	56	b	b	12·9
England, E.	Lowestoft	-	56	48	bz	b bc.bz	12·8
	Felixstowe	-	57	47	bc b	bv	9·2
	Walton-on-Naze	-	56	51	bc.c.b.	b.	9·8
	Southend-on-Sea	-	65	51	b	bv	11·0
England, S.E.	Margate	-	57	50	bc	b	8·8
	Ramsgate	-	58	48	bf.b	bc	10·1
	Hastings	-	71	53	b	b	13·4
	Eastbourne	-	61	52	b	b	13·0
	Seaford	-	72	53	b	b	13·0
	Brighton	-	70	54	b	b	13·3
	Worthing	-	65	[illegible]	b	b	13·4
	Littlehampton	-					
	Bognor						
	Bournemouth	-	70	54	b	b	12·0
England, S.W.	Weymouth	-	67	53	b	bc.bz	12·3
	Torquay	-	64	51	b	b	11·8
	Paignton	-	61	45	b	b	?
	Penzance	-	67	53	b	b	13·3
	Newquay	*	79	51	b	b.	13·0
	Bude	-	77	49	bz b	bz b	13·4
	Ilfracombe	-	75	45			11·1
	Weston-super-Mare ...	-	76	52	b	b	12·5

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. 24 hours ended 9 A.M. To-day.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	52	61	12·9	73	45	38	-	b	bc	b
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	73	11·7	73	50	49	-	b	b	bcm.b
Camden Sq. (Brit. Rainfall)	43	55	10·8	79	49	45	-	b	b	*
Hampstead (Reservoir) ...	*	64	13·4	72	47	34	-	b	b	b
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	12·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	50	59	11·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2016 Joules	357 Milliwatts.	69 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.	-	72	52	49	bc	c.b	b	*
Darwen to 9 p.m.	-	75	56	51	cu.b.	bc	bc.	11·0.
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 9 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	74	54	50.	bm	bcz	bz.bz	*

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

20th & 21st May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.51 / 3.50	11.49 / 11.49	7.46 / 7.48
Greenwich	4.14 / 4.12	11.56 / 11.56	7.48 / 7.50
Wick	3.35 / 3.36	12.8 / 12.8	8.39 / 8.41
Valencia	4.43 / 4.41	12.37 / 12.37	8.30 / 8.32

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 75° and 79° in many localities, but some northern stations remained below 50°. Locally in Scotland there was no sunshine, but generally the records were very good, 14 hours at Pembroke and Jersey, more at Oban.

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 barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 142. Sunday. 21st May.

	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
									°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017.8	51	SSW	2	m	1020.2	+1	49	+2	WNW	4	-	om	3	2	52	46	c.om	o.f p	om	*
	Deerness (Orkney)	1018.3	54	W	5	bc	1021.4	*	51	+5	W	2	NW	o	1	9	56	45	f	f.c bc	bc.c	2.9
	Stornoway ...	1019.2	55	SW	4	o	1021.0	-1	50	-4	S	1	-	o.g	1	1	61	48	bc.o.p	o.c o	o.c.o.g	2.5
	Castlebay (Barra Isd.)	1021.0	52	SW	4	o	1021.5	0	48	-3	S	4	-	om	4	3	54	47	r f om	om	o.bc om	0.5
	Glasgow ...	1022.1	61	W	2	bc	1022.3	-1	50	+3	ESE	1	SW	o.g	*	-	66	45	m.bg.o.p	o.c.a.bc	bc.bg.c	6.9
	Eskdalemuir ...	1021.6	63	NW	4	c	1022.5	0	55	-4	-	0	W	c	*	-	69	45	bc.g.o.g	bc.g.c	bc.c.o.c	9.6
	Malin Head § ...	1021.9	55	W	4	bm	1020.5	-3	50	-	SE	3	SW	cm	2	1	60	47	bc	bm	cm	7.6
	Blacksod Point	1022.8	54	SW	3	bcm	1017.0	-3	53	0	SE	2	-	cm	1	-	57	47	cm	bcm	cm	*
	Valencia ...	1024.1	56	WSW	2	b	1018.7	-2	53	-1	SE	2	S	o	2	0.3	60	48	c.bc.c	bc.b	bc.m bc.m	11.2
	Roche's Point	1024.8	55	S	3	c	1022.1	*	50	-5	S	2	-	f	2	0.2	58	47	o.f	f.c	c.f	*
	Birr Castle ...	1023.2	66	NW	1	c	1019.6	*	57	-2	S	2	-	c	*	-	68	51	c	c	c	8.4
	Donaghadee ...	1022.9	55	N	3	bcg	1021.3	-1	50	-6	NE	2	-	cm	2	-	69	48	bcg	bcg	om.cm	*
	Liverpool (Bidston)	1023.5	59	W	2	b	1021.9	-2	57	-5	E	1	S	b	1	-	76	53	bm	bm	bm	11.3
	Holyhead ...	1023.8	52	SSW	4	bf	1021.3	-2	48	-12	N	4	-	f.c	3	-	63	46	bm bf	f c bf	f.c f.c	8.5
	Pembroke (St. Ann's)	1025.2	52	WSW	2	f	1021.8	-2	49	-6	SE	2	-	f.c	2	0.2	71	46	f	f	f.c	0.6
	Scilly (St. Mary's)	1025.5	57	-	0	om	1022.8	-1	50	-1	-	0	-	f.c	2	0.2	59	47	f om	om	f.c	0.7
	Falmouth ...	1024.5	55	N	2	om	1021.5	0	57	+5	E	1	-	b	*	-	66	48	b bc	bc b.c	o.bm.w	8.6
	Jersey (St. Aubin)	1024.1	77	E	2	b	1023.7	*	62	-2	E	1	-	b	1	-	79	56	b	b	b	14.0
	Portland Bill ...	1025.6	56	ENE	2	b	1023.2	-1	58	+3	E	3	-	b	2	-	60	54	bc b	b	b.bc	*
	Dungeness ¶ ...	1025.7	58	E	1	b	1024.5	0	58	-	SW	1	W	bc	1	-	66	54	b	b	b.bc	*
	Dover	1026.0	67	-	0	b	1025.0	0	60	+2	SSW	2	-	b	2	-	71	55	b	b	b	12.8
	Wick	1018.8	51	SSE	1	m	1021.9	+2	49	+3	SE	1	-	bc	1	-	59	45	fe.cm	cm	cm.bc	*
	Nairn	1019.8	62	W	3	bc	1021.4	*	55	+4	-	0	-	bc	0	-	68	47	bc.cm	c.bc	bc	5.7
	Aberdeen ...	1019.2	62	NNE	2	bcg	1022.5	+1	58	+11	SE	1	-	bg	2	-	70	45	cm bcg	bcg	bcg.b	7.8
	Leith	1020.7	61	W	1	bc	1022.0	0	51	+5	W	1	W	bc	2	-	66	46	m.c.bc	b	b.bcm.b	*
	Tynemouth ...	1020.8	72	NW	2	cm	1023.2	0	54	+3	NW	1	W	bcm	2	-	77	45	cm	cm	bcm	*
	Spurn Head ...	1023.5	65	SW	4	bcm	1023.7	-1	58	+4	SE	3	-	bc	3	-	74	53	bc	bcm	bc	9.3
	Yarmouth ...	1025.1	58	S	5	b	1023.5	0	63	+9	W	3	-	bm	2	-	59	54	bc.b	b	b.bcm	12.4
	Clacton-on-Sea	1025.3	59	SSE	2	bc	1024.2	0	62	+7	SW	1	-	bc	0	-	63	54	b	b.bc	bc.c.bc	13.1
	Nottingham ...	1022.5	74	SW	3	b	1023.2	*	61	+1	E	1	S	bc	*	-	77	55	bm	bm	b	11.1
	Benson (Oxon.) ...	1024.4	70	S	2	b	1023.4	-1	60	-1	S	1	-	b	*	-	75	47	b	b	b	*
	Sth Farnborough	1024.4	72	SSW	2	b	1022.9	-1	64	+4	SSW	2	-	b	*	-	78	49	m.b.bcv	v.bc.b	b	14.2
	London (Kew Obsy.)	1024.9	76	SSW	3	bcv	1024.1	-1	63	+4	SSW	2	w	bm	*	-	76	50	bm b.bc	bc bcv	bcv.b.bm	14.0
NORTHERN EUROPE.	Spitsbergen ...	1021.7	23	SE	1	c	1023.1	+1	18	-1	-	0	*	f	*	*	30	18				
	Vardö	1011.0	25	NW	3	c	1010.0	+1	28	+1	N	4	-	s	4	*	28	23				
	Bodö	1021.1	39	N	2	bc	1014.0	-5	39	0	E	1	-	o	1	-	41	37				
	Christiansund	1019.4	43	-	0	r	1012.7	-2	48	+5	SW	8	-	o	5	2	48	41				
	Skudesnaes ..	1021.1	48	SSE	1	b	1019.0	+2	50	0	NNW	4	-	m	2	-	54	45				
	Færder (X'ianiaFjord)																					
	The Scaw (Skagen)	1023.4	54	SSW	1	bc	1018.3	-2	48	0	SSW	3	-	o	3	-	54	46				
	Blaavands Huk	1024.6	50	W	2	o	1020.3	-5	52	+4	SSW	2	-	o	2	-	52	46				
FRANCE, &c.	The Helder ...	1026.4	57	SW	1	b	1023.9	-2	57	+5	SSW	4	-	bc	2	-	59	48				
	C. Gris Nez ...	1025.7	63	E	2	b	1024.7	0	65	+8	S	3	*	b	1	-	70	59				
	La Hève	1023.5	66	ESE	3	b	1024.0	*	61	0	ESE	2	*	m	1	-	77	57				
	Brest (St. Mathieu)	1024.6	62	NNW	3	bc	1021.9	0	66	-2	E	3	*	bc	?	-	70	54				
	Rochefort (Ile d'Aix)	1022.1	79	ENE	4	b	1022.4	0	61	-2	ENE	3	*	b	*	-	95	55				
	Biarritz	1022.9	59	WSW	3	m	1021.5	0	57	-1	ESE	1	*	f	2	-	59	55				
	Paris	1025.0	72	ENE	2	b	1025.5	+1	63	+4	ENE	1	-	b	*	-	75	52				
	Belfort	1025.2	64	ENE	3	b	1026.6	*	54	-1	ENE	4	*	m	*	-	71	47				
	Lyons	1021.2	72	NNW	2	b	1023.8	*	61	0	-	0	*	b	*	-	77	52				
	Nice	1017.2	72	SW	1	b	1021.1	+2	67	-2	-	0	*	b	0	-	81	61				
	Perpignan ..	1017.7	82	NW	3	b	1020.3	+1	73	-6	-	0	-	b	*	-	90	63				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1023.1	64	?	3	o	1022.1	0	57	+2	SW	1	-	f	1	-	64	55				
	Madrid (8 a.m.)	1016.6	84	E	1	b	1020.4	+2	66	-6	NE	1	-	b	*	-	86	61				
	Lisbon (7 a.m.)	1018.0	77	NNW	4	bc	1018.7	0	68	-	NNW	2	NW	c	5	-	84	66				
	Azores (Horta, 8 a.m.)	1012.4	*	SW	6	m	1021.5	+1	57	-6	-	0	*	b	2	-	68	57				
	Madeira (Funchal)	1019.3	68	N	4	b	1020.3	+1	63	+4	N	4	-	b	3	-	68	61				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1018.9	+3	68	-2	SE	1	-	b	2	-	77	63				
	Limassol (6 a.m.)	*	*	*	*	*	1011.4	+2	73	-2	W	1	-	b	2	-	79	55				
	Alexandria (6 a.m.)	1014.6	68	NNW	3	b	1015.0	0	70	0	NW	4	NW	bc	2	-	79	66				
	Cairo (Helwan) (6 a.m.	1015.5	75	NNW	3	b	1014.0	+1	70	0	N	1	NE	b	0	-	86	63				
	YESTERDAY'S REPORTS	.....19th, 8 P.M. G.M.T.					.....20th, 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1018.0	0	68	+2	NE	1	*	c	3	-	81	64				
	Turin						1017.9	0	70	0	-	0	*	b	*	-	84	61				
	Pesaro						1017.3	0	68	+4	E	1	*	c	4	-	81	57				
	Leghorn						1017.7	0	68	0	-	0	*	b	1	-	75	61				
	Rome						1017.4	0	66	0	NE	1	*	b	*	-	81	55				
	Viesti						1017.3	0	66	-4	SW	1	*	b	1	-	72	57				
	Brindisi						1016.1	0	64	0	NW	2	*	b	1	-	68	63				
	Cagliari						1017.7	0	59	-2	NW	4	*	b	4	-	77	48				
	Palermo						1017.4	0	72	+2	S	1	*	b	1	-	77	52				
	Tripoli						1017.2	0	70	0	E	1	*	b	2	-	72	59				
	Algiers	1020.6	64	NNE	1	bc	1020.0	0	63	+2	E	2	*	bc	2	-	70	59				

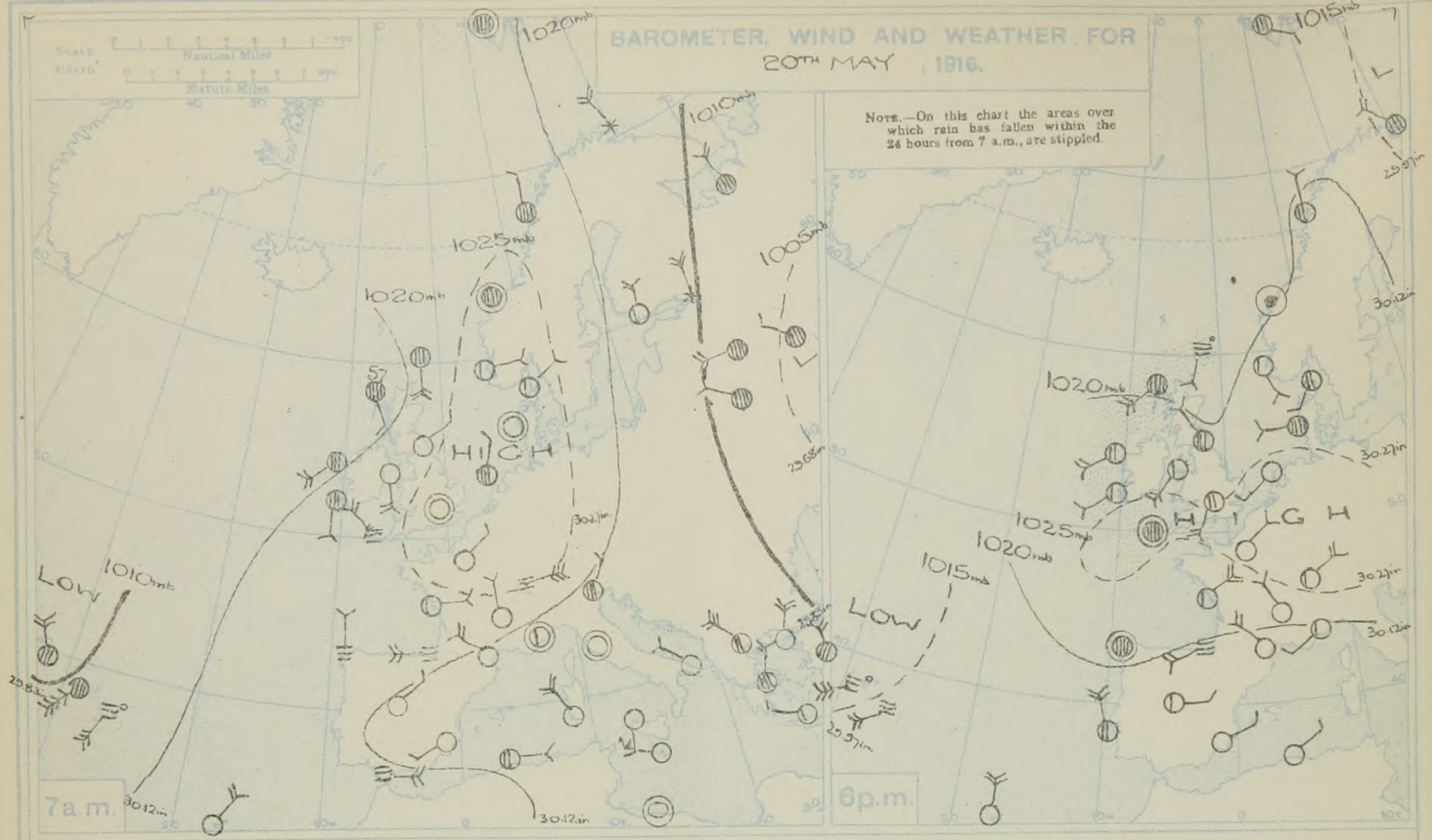
NOTE:-
§ Observations taken at 6h. G.M.T.
¶ Observations taken at 8h. G.M.T.

RAINFALL.

Equivalents of Millimetres in Inches.

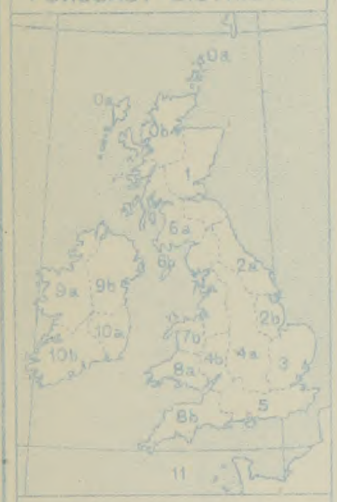
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 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	Calms and light variable breezes;
	b	
1		
2	a	
	b	
3		
4	a	fine generally, local morning mist; warm.
	b	
5		
6	a	
	b	
7	a	
	b	
8	a	
	b	
9	a	Freshening Southerly breeze; fair to cloudy and misty, some rain later; warm.
	b	
10	a	
	b	
Western Channel and Bay	11	Light Easterly and variable breezes; sea slight; fair to fine, local mist or fog; warm.

FURTHER OUTLOOK

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

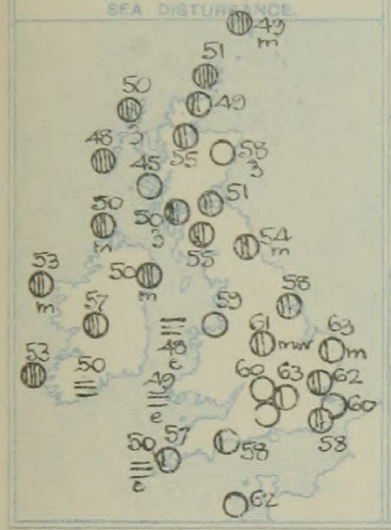
Millibars Inches
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 21ST MAY, 1916.

GENERAL INFERENCE.

A depression out on the Atlantic is likely to occasion somewhat less settled conditions temporarily in the far west.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

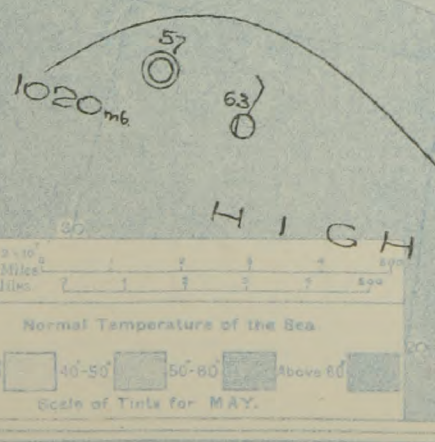
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



Scale 1 : 21×10⁶
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°-80° | Above 80°
Scale of Tints for MAY.

Issue No. 19,904

DAILY WEATHER REPORT.

Sunday, 21st May 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	-	-	-	-	-	1008.4	+4	27	-14	N	3	*	0	*	6	*	25
Gorki	-	-	-	-	-	1005.0	?	43	0	NW	2	*	0	*	-	*	*
Veliki Luki ...	1005.3	43	SSW	5	0	1006.6	?	41	-	W	4	*	0	*	1	*	*
Hangö	1014.3	37	NNE	4	0	1018.3	+2	34	-7	N	3	*	b	0	-	*	?
Riga	1010.6	41	N	4	r	-	-	-	-	-	-	*	-	-	-	*	-
Petrograd	1004.4	43	NW	2	0	1010.1	+5	36	-5	N	4	-	5	*	3	48	36
Moscow	1005.0	46	N	1	b	1009.3	0	45	+2	NW	1	*	0	*	-	*	39
Kiev	1011.3	45	NNW	2	b	1011.1	0	45	-3	WNW	2	*	0	*	-	*	37
Kharkov	1007.5	46	NW	2	0	1011.0	+2	46	-4	NNW	2	*	b	*	1	*	37
Kishinev	1015.9	52	NW	2	c	1017.0	0	?	?	NW	3	*	c	*	-	*	43
Elisabetgrad ...	1013.1	48	?	?	b	1012.8	+2	48	-4	NW	2	*	b	*	-	*	43
Nicolaiev	1012.0	55	NNW	4	bc	1014.9	*	50	-5	NNW	2	*	bc	*	-	*	46
Odessa	1013.5	55	NNE	3	bc	1014.9	0	50	-5	NNW	2	*	bc	*	-	*	46
Tarkhankout ...	1013.0	?	N	1	b	1014.4	?	55	-4	N	4	*	0	*	1	*	52
Soukhoum ...	1009.2	73	SSE	3	r	1013.2	?	64	-	-	0	*	0	*	9	*	?

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	-	58	51	or	b	3.6
	Banff	-	74	47	bc	ou. bc	5.5
	St. Andrews						
	Carnoustie	0.2	64	46	b	bc. o.c	5.8
Eng. N.E.	Harrogate	-	78	54	bc.b	b.bc	9.4
	Skegness	-	76	49	b	b.bc	11.8
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	71	55	bo.b	bc.b	?
Midlands.	Buxton	-	75	51	bc	bc	9.0
	Leamington Spa	-	78	51	bc	bc	13.2
	Malvern						
	Ross-on-Wye	-	79	48	bz	b.bc	12.3
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	-	71	57	b	b	10.6
	Aberystwyth	-	64	52	c.b	c.o.	5.5
	Tenby	-	68	55	b	b	10.5
England. E.	Lowestoft						
	Felixstowe	-	61	50	b	bc	12.3
	Walton-on-Naze	-	62	51	b.bz.b	b.bc.b	12.3
	Southend-on-Sea	-	71	51	b	bv	12.5
England. S.E.	Margate	-	72	49	b	b	12.2
	Ramsgate	?	64	51	z	z	12.6
	Hastings	-	69	54	b	b	13.4
	Eastbourne	-	69	51	b	b	13.0
	Seaford	-	71	52	b	b	13.4
	Brighton	-	65	57	b	b	13.2
	Worthing	-	68	55	b	b	13.4
	Littlehampton	-	66	55	b	b	13.8
	Bognor	-	61	55	bc	bc	13.0
	Bournemouth	-	65	57	b	b	13.0
England. S.W.	Weymouth						
	Torquay	-	66	52	b	b	11.8
	Paignton	-	61	46	b	b	12.2
	Penzance	-	67	54	b.bc	c	7.4
	Newquay	*					
	Bude	-	77	51	b.fc	fc	4.4
	Ilfracombe						
	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.	Rain fall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	44	32	14.6	78	51	44	-	b	b	b
City (Bunhill Row)	*	*	13.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	52	59	14.2	78	50	47	-	bc	b.	bc v. b
Camden Sq. (Brit. Rainfall)	38	46	11.2	81	52	48	-	b	b	*
Hampstead (Reservoir) ...	*	34	13.9	75	56	38	-	b	b	b
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	14.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	38	51	13.7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.	Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.)	2439 Joules	43.0 Milliwatts.	78 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.	-	70	56	53	bc	c.b	b	*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "	-	77	54	62	*	bc	c	9.7
Oxford to 9 p.m.	*	77	50	44	b	b.bcm	bcmb	*
Teignmouth to 8 "								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	-	78	52	47	b	b	b	*

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

21st & 22nd May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.50 / 3.49	11.49 / 11.49	19.48 / 19.49
Greenwich	4.2 / 4.1	11.56 / 11.56	19.50 / 19.51
Wick	3.36 / 3.34	12.8 / 12.8	20.41 / 20.43
Valencia	4.41 / 4.40	12.37 / 12.37	20.32 / 20.34

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	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 18th	Eskdalemuir 18h.	Benson 18th	Benson 18h.	Benson 19th	Benson 12h.								
	5			+4	-6										
	4			+3	-7										
	3			+1	-1										
	2			-1	0	-1	+4								
	1	+2	-2	-1	-0	-2	-4								
	0.6	+1	+1	-1	+1	-4	+4								
	0	+1	+4	-2	+1	-5	+2								

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

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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. 143 / MONDAY, 22ND MAY.

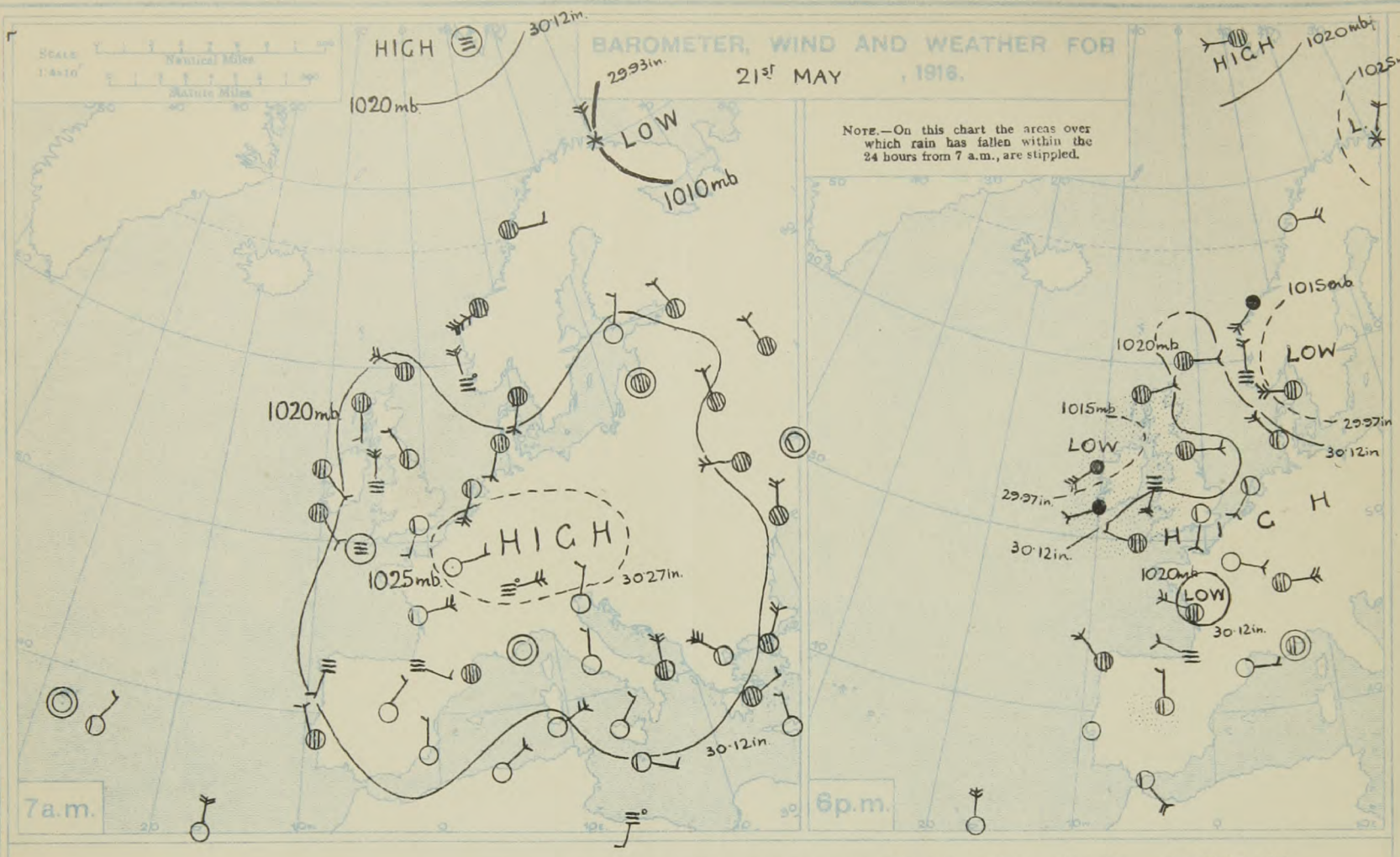
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon	Weather. Night.	
							‡	°F.	°F.								°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1021.5	50	E	2	om	1017.7	-1	47	-1	SE	3	-	om	2	-	54	44	om	om	om	*
	Deerness (Orkney)	1019.6	50	ESE	4	c	1014.9	*	47	-4	S	2	-	rf	2	5	55	47	c.o	o.c	c or f	2.3
	Stornoway ...	1015.9	52	ENE	2	o	1015.3	+2	50	0	SSW	3	-	o	3	5	57	49	o.c	c o	ofp	0.6
	Castlebay (Barra Isd.)	1015.0	55	ESE	4	o	1016.9	+2	50	+1	SW	4	-	om	4	5	56	46	om.bc.o	o	or.om	1.4
	Glasgow ...	1018.1	56	E	2	omr	1018.3	+3	50	o	WSW	3	-	ofp	*	3	65	49	c.bc.c.o	o dpm	omfp	2.1
	Eskdalemuir ...	1018.2	60	SSW	1	or	1017.7	0	51	-4	W	4	-	o	*	6	69	48	bc	cdr	o.om	5.7
	Malin Head ...	1014.3	60	SSW	3	cg	1018.9	+2	49	-	WSW	4	SW	bcm	4	5	63	48	bm	bcm	cm	0.4
	Blacksod Point	1013.9	58	SW	5	omr	1020.6	+2	51	-2	W	5	W	bcm	4	6	61	47	bc	omr	cm.bcm	*
	Valencia ...	1017.7	51	WSW	2	or	1025.2	+3	52	-1	SW	3	-	b	*	11	59	47	o.or	r.o.r	r.o.c.b.c.b	0.9
	Roche's Point	1019.6	53	S	3	r	1025.2	*	50	o	NW	2	-	b	2	6	55	46	f.b.om	fr	rf.o.b	*
	Birr Castle ...	1017.3	58	S	2	o	1023.3	*	50	-7	W	1	-	b	*	2	61	45	od.r	c.od	or c b	0.3
	Donaghadee ...	1017.1	54	S	3	cm	1020.2	+3	50	o	WNW	3	NW	bcm	3	5	55	48	omfp	cm	cg m p	*
	Liverpool (Bidston)	1018.7	57	WNW	1	o	1019.8	+1	51	-6	WSW	4	W	r	?	2.2	74	?	b		ofp	5.7
	Holyhead ...	1019.2	50	SSW	4	of	1021.1	+3	50	+2	NW	5	-	ogr	5	2	58	47	f.c.f.o	of c bf	of f.o.od	4.2
	Pembroke (St. Ann's)	1021.2	50	W	2	f	1022.7	+2	50	+1	NNW	4	NW	c	3	1	51	49	f	f	fa fd	0.0
	Scilly (St. Mary's)	1022.1	54	WNW	1	om	1024.8	+2	52	+2	NNW	4	N	b	4	0.1	57	49	f om	f. om	om f bc	0.5
	Falmouth ...	1020.3	60	SSE	1	cg	1022.7	+3	53	-4	NW	5	-	m	*	1	63	52	c	bc.c	omfp	6.8
	Jersey (St. Aubin)	1021.1	73	SE	2	b	1021.7	*	54	-8	WNW	4	NW	c	3	-	77	53	b	b	bc.o.c	13.2
	Portland Bill ...	1021.7	57	ENE	2	bc	1021.1	+1	55	-3	NNW	2	NW	or	2	0.4	64	53	b	b.bc	bc.c	*
	Dungeness ...	1021.8	65	SW	1	b	1019.4	o	63	-	-	o	-	b	•	-	66	52	bc.b	b	b	*
	Dover	1021.7	68	SSW	2	b	1018.9	o	63	+3	*	5	-	b	2	-	72	55	b	b	bc.w	13.8
	Wick	1019.3	48	E	3	c	1015.2	o	49	o	NW	3	-	r	3	2	52	46	bc.om	om c	c.omr	*
	Nairn	1017.1	54	-	o	o	1016.1	*	51	-4	W	1	-	cg	1	1	58	50	bc.c	cg	g p.o	1.8
	Aberdeen ...	1020.3	51	SSE	3	r	1016.0	-1	50	-8	-	o	-	om	2	6	61	48	bc.c.o	or	orm	4.3
	Leith	1018.6	50	NE	1	r	1017.0	+1	52	+1	W	1	-	r	2	6	62	48	bc.o	ofp.or	r	*
	Tynemouth ...	1019.5	52	E	2	om	1017.0	o	56	+2	WNW	3	W	cmfp	2	2	58	50	cm	om	cmfp	*
	Spurn Head ...	1019.8	58	SE	2	c	1018.5	o	56	-2	NW	4	-	cpm	3	-	68	53	bc	bc	c.b	7.9
	Yarmouth ...	1020.1	72	SW	4	bc	1018.4	o	64	+1	WNW	2	-	bcm	2	-	74	58	bcm	bcm	bcm	12.5
	Clacton-on-Sea	1021.1	64	SSE	3	b	1019.1	o	62	o	WSW	1	-	c	o	-	67	56	bcm.bg	bg	bcw.cg	13.7
	Nottingham ...	1018.6	74	SW	2	c	1018.9	*	59	-2	W	2	W	mr	*	0.3	79	59	bc	bc.c	c.bc	9.4
	Benson (Oxon.) ...	1020.2	71	SSW	2	b	1020.0	o	60	o	W	2	-	o	*	-	78	55	b	b	bc.o	*
	Sth Farnborough	1020.5	73	SW	3	b	1019.4	o	61	-3	W	1	W	o.	*	-	80	58	b	b	bc.o	13.5
	London (Kew Obsy.)	1020.9	76	SSW	2	b	1019.7	o	61	-2	SW	1	SW	o	*	-	79	54	bm.b	b	bc.o	13.1
NORTHERN EUROPE.	Spitsbergen ...	1023.5	25	W	2	o	1023.7	o	23	+5	NNW	1	*	o	*	*	28	18				
	Vardö	1011.7	28	NNE	3	s	1012.2	o	30	+2	NE	4	-	s	4	*	30	23				
	Bodö	1016.4	41	E	3	b	1017.9	o	41	+2	E	2	-	b	2	-	43	34				
	Christiansund	1016.3	45	SW	4	r	1018.1	o	43	-5	SW	3	-	o	4	8	48	41				
	Skudesnaes ..	1019.4	48	N	3	f	1017.3	-3	48	-2	WSW	2	E	o	1	-	50	48				
	Færder (X'tianiaFjord)																					
	The Scaw (Skagen)	1013.5	55	W	4	c	1015.4	+1	54	+6	NNE	2	-	bc	2	-	59	48				
	Blaavands Huk	1020.4	52	NW	3	bc	1018.0	+1	48	-4	NW	2	-	o	1	-	54	45				
FRANCE, &c.	The Helder ...	1022.0	61	SW	2	b	1017.6	o	57	o	SW	3	W	b	1	-	63	50				
	C. Gris Nez ...	1021.6	70	-	o	b	1019.8	o	66	+1	S	2	*	b	o	-	72	59				
	La Hève	1021.5	74	-	o	m	1021.0	*	64	+3	SW	3	*	bc	1	-	82	57				
	Brest (St. Mathieu)	1023.1	63	S	1	o	1024.0	+2	53	-13	N	2	*	m	3	-	72	50				
	Rochefort (Ile d'Aix)	1019.9	66	NW	3	c	1022.0	+3	59	-2	WNW	3	*	o	*	-	93	57				
	Biarritz	1020.6	59	WNW	2	f	1024.4	+3	59	+2	WSW	3	*	f	2	-	73	57				
	Paris	1021.4	73	SE	1	b	1020.7	o	64	+1	-	o	-	b	*	-	81	50				
	Belfort	1023.1	70	E	4	c	1023.3	*	63	+9	-	o	*	m	*	-	72	52				
	Lyons	1021.0	75	-	o	b	1022.1	*	64	+3	S	2	*	b	*	-	79	54				
	Nice	1022.6	64	-	o	bc	1023.4	o	66	-1	S	1	*	bc	o	-	77	61				
	Perpignan ..	1020.7	68	E	1	b	1023.4	+3	63	-10	NW	1	-	o	*	-	79	59				
	Sanguinaire ...	*	72	NW	2	b	*	*	66	-	S	4	*	f	2	-	75	61				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1023.4	59	NW	3	o	1027.4	o	57	o	N	3	-	f	1	-	61	57				
	Madrid (8 a.m.)	1015.7	84	N	1	bc	1022.1	+1	61	-5	E	1	-	f	*	3	86	59				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)		*				1027.8	+2	63	+6	SSE	4	*	o	2	-	72	59				
	Madeira (Funchal)	1020.8	68	N	4	b	1022.7	o	64	+1	N	4		b	3	-	68	63				
	Gibraltar	1021.3	66	SE	3	b	1020.3	*	63	-	E	4	*	m	o	-	78	59				
	Malta (8 a.m.) ...	*	*	*	*	*	1024.0	+2	66	-2	ENE	2	-	o	2	-	70	57				
	Limassol (6 a.m.)	*	*	*	*	*	1012.6	+2	73	o	W	5	-	b	4	-	84	54				
	Alexandria (6 a.m.)	1014.6	70	NW	4	b	1015.8	+1	70	o	N	3	-	b	2	-	75	66				
	Cairo (Helwan) (6 a.m.)	1012.7	75	N	3	b	1015.0	+2	68	-2	N	2	-	b	o	-	86	63				
	YESTERDAY'S REPORTS			20th, 8 P.M. G.M.T.							21st, 7 A.M. G.M.T.											
MEDITERRANEAN.	Venice						1023.7	o	66	-2	NNE	1	*	b	4	-	72	61				
	Turin						1023.7	o	64	-6	SSE	3	*	b	*	-	79	61				
	Pesaro						1023.3	o	66	+2	E	2	*	b	3	-	75	57				
	Leghorn						1021.5	o	66	-2	-	o	*	b	o	-	73	57				
	Rome						1022.6	o	64	-2	-	o	*	b	*	14	79	55				
	Viesti						1024.1	o	64	-2	-	o	*	b	4	-	72	57				
	Brindisi						1021.2	o	61	-3	N	4	*	c	6	-	64	61				
	Cagliari						1019.0	o	61	+2	ENE	3	*	b	3	-	79	54				
	Palermo						1020.4	o	70	-2	NE	1	*	b	1	-	77	52				
	Tripoli						1017.5	o	73	+3	SSW	1	*	m	5	-	82	64				
	Algiers	1019.3	64	NE	1	b	1019.9	+1	66	+3	NE	2	*	b	2	-	73	59				

UPPER AIR.
South Farnborough. 6h 40m
Pilot Balloon Ascent at .....

Wind at 9,000 ft SW 19 m.p.h.
" " 8,000 ft SW 22 "
" " 7,000 ft SW 26 "
" " 6,000 ft SW 21 "
" " 5,000 ft WSW 21 "
" " 4,000 ft WSW 20 "
" " 3,000 ft W by S 18 "
" " 2,000 ft W 16 "
" " 1,000 ft NW by W 9 "
" " Surface W 5 "

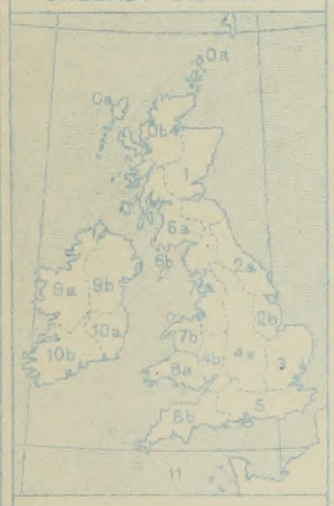
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 21ST MAY, 1918.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 {a, b}, 1 — South-Westerly breeze veering North-Westerly, light to moderate; changeable, some rain and mist, improving again later; moderate temperature.

2 {a, b}, 3, 4 {a, b}, 5 — Westerly and North-Westerly breezes, light to moderate; changeable, passing showers and mist, improving again later; temperature moderate to warm.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b} — Same as Nos. 2 to 5.

8 {a, b} — Moderate North-Westerly breeze; fine generally, local mist; warm.

9 {a, b} — Same as Nos. 2 to 5.

10 {a, b} — Same as No. 8.

11 — Light to moderate North-Westerly and Northerly breezes; sea moderate fair to fine, some mist or fog; moderate temperature.

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., MONDAY, 22nd MAY, 1916.

GENERAL INFERENCE.

After a temporary break the conditions will revert to the anticyclonic fine weather type.

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.
⊤ₓ thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

HIGH 30·12in. 1020mb. 23

LOW 29·97in. 28 1015mb. 41

LOW Barometer falling slightly. 1015mb. 1020mb. 1025mb. 50° 60° 29·97in. 30·12in. 47 48 54 50 49 56 51 52 64 61 53 59 63 57 66

HIGH 30·27 in. 63 64

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MAY.

Issue No. 19,905

DAILY WEATHER REPORT.

Monday, 22nd May 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	1011·9	30	NNW	3	S	-	-	-	-	-	-	*	-	-	-	*	-
Gorki	1011·1	43	N	2	S	1015·2	+3	41	-2	N	2	*	0	*		*	*
Veliki Luki ...	-	-	-	-	-	1021·0	?	34	-7	WNW	3	*	0	*	-	*	*
Hangö	1007·9	41	NNE	2	0	1020·6	0	37	+3	-	0	*	0	b	2	*	30
Riga	1020·7	37	N	2	0	1022·6	+2	32	-	-	0	*	0	2	-	*	34
Petrograd	1017·7	34	NNW	3	0	1019·3	0	37	+1	NNW	2	.	c	*	10	*	34
Moscow	1009·6	46	W	2	b	1015·4	+3	41	-4	NNW	2	*	c	*	-	37	34
Kiev	1013·6	45	NNW	2	0	1015·5	+2	43	-2	WNW	3	*	0	*	-	*	39
Kharkov	?	50	ENE	2	0	1016·5	?	52	+6	-	0	*	b	*	-	*	41
Kishinev	1019·1	48	NW	3	0	1021·1	+1	43	+5	NW	3	*	c	*	-	*	41
Elisabetgrad ...	1015·5	46	S	2	b	1017·0	+2	43	-5	NW	3	*	bc	*	-	*	36
Nicolaiev	1015·5	52	-	0	b	1018·1	*	46	-4	NW	4	*	0	?	-	*	36
Odessa	1016·8	54	N	3	0	1019·3	+3	45	-5	NNE	3	*	0	?	-	*	45
Tarkhankout ...	1016·6	55	N	2	bc	1017·3	?	50	-5	NE	2	*	0	?	7	*	43
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	46

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17hrs G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	64	48	0	0	1.5
	Banff	-	60	48	bc	bc	5.9
	St. Andrews						
	Cornustie	1	58	50	bc. o	c. or	5.5
Eng. N.E.	Harrogate	-	69	52	c.bc	cr. o	2.2
	Skegness	-	63	54	bc	bc	11.3
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	73	51	b. bc	bc. o	4.9
Midlands.	Buxton						
	Leamington Spa	-	81	54	bc	bc	11.0
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	-	72	50	bc.c	o	3.2
	Colwyn Bay	-	66	51	bc	bc. o	3.5
	Llandudno	-	65	47			3.0
	Aberystwyth	-	58	49	o. c b	c. o	4.0
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	67	52	b	bm	12.4
	Walton-on-Naze						
	Southend-on-Sea						
England, S.E.	Margate	-	76	58	b	b	13.5
	Ramsgate	-	72	64	b	b	12.0
	Hastings	-	70	56	b b	b	12.4
	Eastbourne	-	64	52	b	b	12.0
	Seaford						
	Brighton						
	Worthing	-	69	53	b	b	12.1
	Littlehampton	-		52	b	b	12.1
	Bognor						
	Bournemouth	-	69	48	b	b	12.6
England, S.W.	Weymouth						
	Torquay	-	68	51	b	bc	10.2
	Paignton						
	Penzance						
	Newquay	*					
	Bude	-	68	47			8.5
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h G.M.T. Yesterday.	Humidity. 9h G.M.T. 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 9h G.M.T. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	49	73	13.7	82	56	39	-	b	b	b. o
City (Bunhill Row)	*	*	13.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	-	74		81	55	47	-	bc	b. bm	o.
Camden Sq. (Brit. Rainfall)	-	59	11.3	85	59	53	-	-	-	*
Hampstead (Reservoir) ...	*	75	13.7	79	56	46	-	b.	b	bc. c.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	13.1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	-	64	13.4							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2398 Joules	41.2 Milliwatts.	78 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 16h G.M.T.	1	60	50	48	bmfc	cm. o	or	*
Darwen to 21h G.M.T.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 21h G.M.T.	*							*
Teignmouth to ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 18h.)	-	82	54	56	b	b	b	*

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

22nd May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.49 / 3.48	11.49 / 11.49	19.49 / 19.50
Greenwich	4.1 / 4.0	11.56 / 11.56	19.51 / 19.52
Wick	3.34 / 3.32	12.8 / 12.8	20.43 / 20.45
Valencia	4.40 / 4.39	12.37 / 12.37	20.34 / 20.36

NOTES ON YESTERDAY'S WEATHER.

Temperature reached 80° to 82° locally in the south. Rain fell in the north and west, 11 mm. at Valencia. Sunshine was abundant in the south-east, up to 14 hours. Elsewhere it was much less.

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.144. Tuesday, 23rd May.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp °F.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °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 ...	1015·8	50	WSW	3	cm	1015·0	-½	49	+2	W	3	-	om	2	7	51	45	omr	omp	omp	Hours, ℄
	Deerness (Orkney)	1015·6	53	W	3	bc	1014·2	*	50	+3	S	2	SW	c	2	-	55	46	r.f.o.c	c.bc	bc.c	2·5
	Stornoway ...	1016·1	53	WSW	5	oq	1010·5	-3	48	-2	SSW	6	-	od	5	1	56	48	o.cq	c oq	c.od	0·6
	Castlebay (Barra Isd.)	1018·1	51	SW	5	cm	1011·4	-2	49	-1	SSW	5	-	r	5	0·3	53	47	om	o.cm	c.omr	4·4
	Glasgow ...	1019·9	55	W	3	b	1017·1	-2	50	0	SW	2	W	cz	*	-	57	45	c	cp.c.bc	bc.c.bc	6·1
	Eskdalemuir ...	1019·6	54	W	4	b	1018·4	-1	46	-5	SW	3	-	o	*	-	59	36	o.c.bc.c	c.bc.b	bc.c.o	9·0
	Malin Head ...	1020·1	52	?WSW	4	cmq	1012·7	-2	50	+1	SE	4	S	bcq	5	0·3	55	48	bcm	bcm	bcq/p	9·7
	Blacksod Point	1021·4	52	W	4	cm	1012·2	-2	51	0	W	6	W	omd	4	2	56	48	bcm	cm	cm.omr	*
	Valencia ...	10154	54	SW	4	c	1017·5	-5	52	0	SSE	4	-	or	3	8	58	52	b.bc.o	o.c	o.or	6·4
	Roche's Point	1025·5	58	W	3	c	1021·4	*	52	+2	SW	3	-	o	3	0·2	62	50	bc.c	c.o.c	op.o	*
	Birr Castle ...	1023·1	56	W	2	o	1018·3	*	51	+1	S	2	-	o	*	-	60	49	bc.c.o	c.o	o	3·9
	Donaghadee ...	1021·4	52	ENE	3	bcm	1017·5	-2	50	0	SW	3	-	omr	2	0·4	62	47	bcm	bcm	cgm.or	*
	Liverpool (Bidston)	1022·1	58	W	2	b	1020·3	0	54	+3	WSW	1	-	b	2	1	59	50	od	b	b	8·1
	Holyhead ...	1022·4	53	SW	3	ov	1020·0	-2	50	0	SW	3	-	cv	2	Trace	61	49	o.c.bc	b.bc.od	cp.bc.o	8·4
	Pembroke (St. Ann's)	1025·5	51	WNW	3	c	1023·0	-1	50	0	WSW	1	W	bc	2	-	56	50	c.b	bc	bc	9·2
	Scilly (St. Mary's)	1027·8	54	NW	3	c	10243	-2	51	-1	-	0	-	o	2	-	58	49	bc.c	bc.c	c.o	10·6
	Falmouth ...	1025·7	55	NW	4	bcz	1023·6	-1	52	-1	NNW	1	-	c	*	-	59	47	om.bq	bq.b.bc	cm	7·7
	Jersey (St. Aubin)	1024·4	61	NW	3	b	1023·6	*	53	-1	N	3	-	o	3	Trace	76	49	c.op.o	o.bc.b	b.o	4·7
	Portland Bill ...	1022·3	58	NW	3	b	1023·2	-1	53	-2	-	0	-	c	2	1	60	51	bc	bc.b	bc.c	*
	Dungeness ...	1019·4	64	W	3	cp	1022·6	+1	54	-9	NW	2	NW	bc	2	5	65	44	bc	bcp.bc	b.bc	*
	Dover	1019·8	62	NNW	4	o	1022·1	0	55	-8	NW	3	NW	bc	2	2	72	47	bq	ot-lp.o	c.bc	5·8
	Wick	1016·5	48	SE	1	c	1013·8	-2	50	+1	SSW	2	-	bc	2	1	54	44	r.omq	omq.cp	bcm	*
	Nairn	1016·8	57	W	3	bc	1014·0	*	53	+2	-	0	-	c	0	-	59	45	bc.c	c.bc	bc.c	4·8
	Aberdeen ...	1018·1	50	-	0	cp	1016·0	-1	53	+3	SE	2	W	b	2	1	57	44	om	o.cp	cp.bc.b	0·6
	Leith	1018·9	58	W	1	c	1017·0	-1	50	-2	W	1	W	c	2	-	60	46	r.o.c.bc	b	c.bc	*
	Tynemouth ...	1018·4	61	NW	3	bcq	1019·5	0	50	-6	WNW	1	W	bcm	2	-	63	47	bc	bc	bcm	*
	Spurn Head ...	1019·7	59	NW	5	bc	1020·4	-1	58	+2	WNW	4	-	cmt	3	-	62	53	cpm.or	o.bc	bcm	1·0
	Yarmouth ...	1018·4	58	N	2	o	1021·5	0	50	-14	WNW	3	-	cm	2	22	69	48	c otlr	omr	bcm.cm	5·8
	Clacton-on-Sea	1019·9	62	NW	4	o	1022·1	+1	51	-11	WNW	2	NW	bc	2	-	72	47	cz.o	oq	oq.c.bc	3·7
	Nottingham ...	1021·2	58	WNW	4	b	1021·4	*	54	-5	WSW	2	W	c	*	1	62	45	r.o.c	o.c.b	b	8·3
	Benson (Oxon.) ...	1022·1	62	NNW	4	b	1022·7	0	53	-7	-	0	W	b	*	2	63	41	r	bc	b	*
	Sth Farnborough	1020·9	61	NNW	3	bc	1021·1	-1	55	-6	WNW	1	W	bc	*	1	66	45	or.o	r.o.bc	bc.b.bc	2·6
	London (Kew Obsy.)	1021·2	64	NW	2	bc	1022·9	0	53	-8	W	2	NW	bc	*	0·1	66	47	o.op.o	op.c.bc	bc.b.bc	2·3
NORTHERN EUROPE.	Spitsbergen ...	1021·2	30	W	2	o	1020·3	0	34	+11	SSW	3	*	o	*	*	34	21				
	Vardö	1016·7	30	N	2	o	1020·0	+3	34	+4	N	2	-	o	4	*	34	28				
	Bodö	1018·1	34	NE	2	b	1016·0	0	45	+4	ENE	5	-	b	2	-	45	34				
	Christiansund	1016·4	46	-	0	c	1015·0	0	43	0	-	0	-	o	2	3	46	41				
	Skudesnaes ..	1015·5	48	NNW	2	m	1015·1	0	46	-2	N	3	-	c	1	-	48	43				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1016·3	54	NE	2	bc	1014·0	0	50	-4	SSE	3	-	o	3	-	57	48				
	Blaavands Huk	1015·7	52	-	0	o	1012·7	0	48	0	E	1	-	o	0	2	54	46				
FRANCE, &c.	The Helder ...	1017·2	55	W	2	r	1018·4	0	54	-3	NW	4	NW	b	2	3	61	52				
	C. Gris Nez ...	1019·8	55	W	4	o	1022·3	+1	54	-12	NW	3	*	bc	2	Trace	68	52				
	La Hêve	1021·5	57	NW	2	o	1023·3	*	55	-9	NNE	2	*	bc	2	-	72	54				
	Brest (St. Mathieu)	1027·3	54	NNW	4	b	1019·1	0	52	-1	NNE	2	*	c	2	-	57	48				
	Rochefort (Ile d'Aix)	1024·2	64	SW	2	bc	1022·1	0	61	+2	SSE	2	*	m	*	-	72	59				
	Biarritz	1025·1	59	WSW	4	o	1023·1	0	59	-2	WSW	3	*	o	2	-	61	54				
	Paris	1019·9	72	NW	3	o	1022·3	0	57	-7	N	2	-	o	*	-	82	55				
	Belfort	1019·0	73	W	2	b	1021·3	*	63	0	W	2	*	m	*	8	81	55				
	Lyons	1015·3	70	NNW	1	tlr	1021·3	*	64	0	N	2	*	o	*	2	85	59				
	Nice	1021·0	64	S	1	b	1012·6	0	63	-3	-	0	*	f	1	-	75	55				
	Perpignan ..	1021·1	75	SE	1	b	1020·7	-1	70	+7	NW	2	NW	b	*	-	79	61				
	Sanguinaire ...	*	68	SW	3	m	*	*	64	-2	SW	2	*	m	2	-	75	61				
SOUTHERN STATIONS.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1019·8	70	-	0	bc	1021·0	0	63	+2	NNE	1	-	b	*	Trace	72	55				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	10297	*	SW	3	c	10297	0	61	-2	-	0	*	b	1	-	73	59				
	Madeira (Funchal)	1023·9	68	N	4	b	1022·0	0	63	-1	N	4	-	o	3	-	73	63				
	Gibraltar	1018·6	68	SE	4	b	1018·6	*	66	+3	SE	5	*	c	3	-	81	62				
	Malta (8 a.m.) ...	*	*	*	*	*																
	Limassol (6 a.m.)	*	*	*	*	*	1008·2	0	72	-1	W	3	-	b	3	-	79	55				
	Alexandria (6 a.m.)	1015·7	68	NNW	4	c	1017·0	0	66	-4	NW	5	N	b	3	-	77	63				
	Cairo (Helwan) (6 a.m.	1015·1	73	N	4	b	1016·0	+1	66	-2	N	1	N	b	0	-	86	61				
YESTERDAY'S REPORTS		21st, 8 P.M. G.M.T.					22nd, 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1022·8	0	66	0	0	-	*	o	5	-	70	61				
	Turin						1022·4	0	66	+2	-	0	*	b	*	-	75	63				
	Pesaro						1023·3	0	63	-3	SSE	1	*	b	1	-	72	50				
	Leghorn						1023·6	0	68	+2	-	0	*	b	1	-	75	61				
	Rome						1024·4	0	66	+2	-	0	*	b	*	-	74	54				
	Viesti						1021·7	0	66	+2	-	0	*	b	3	-	72	55				
	Brindisi						1023·8	0	61	0	N	4	*	b	-	-	64	59				
	Cagliari						1024·3	0	59	-2	SE	3	*	o	2	-	70	52				
	Palermo						1023·9	0	70	0	-	0	*	b	1	-	75	54				
	Tripoli						1018·9	0	66	-7	E	1	*	o	3	-	73	61				
	Algiers	1019·7	68	NE	2	b	1020·3	+1	66	0	NE	2	*	b	2	-	81	61				

UPPER AIR.

South Farnborough. Pilot Balloon Ascent at 6h 22m

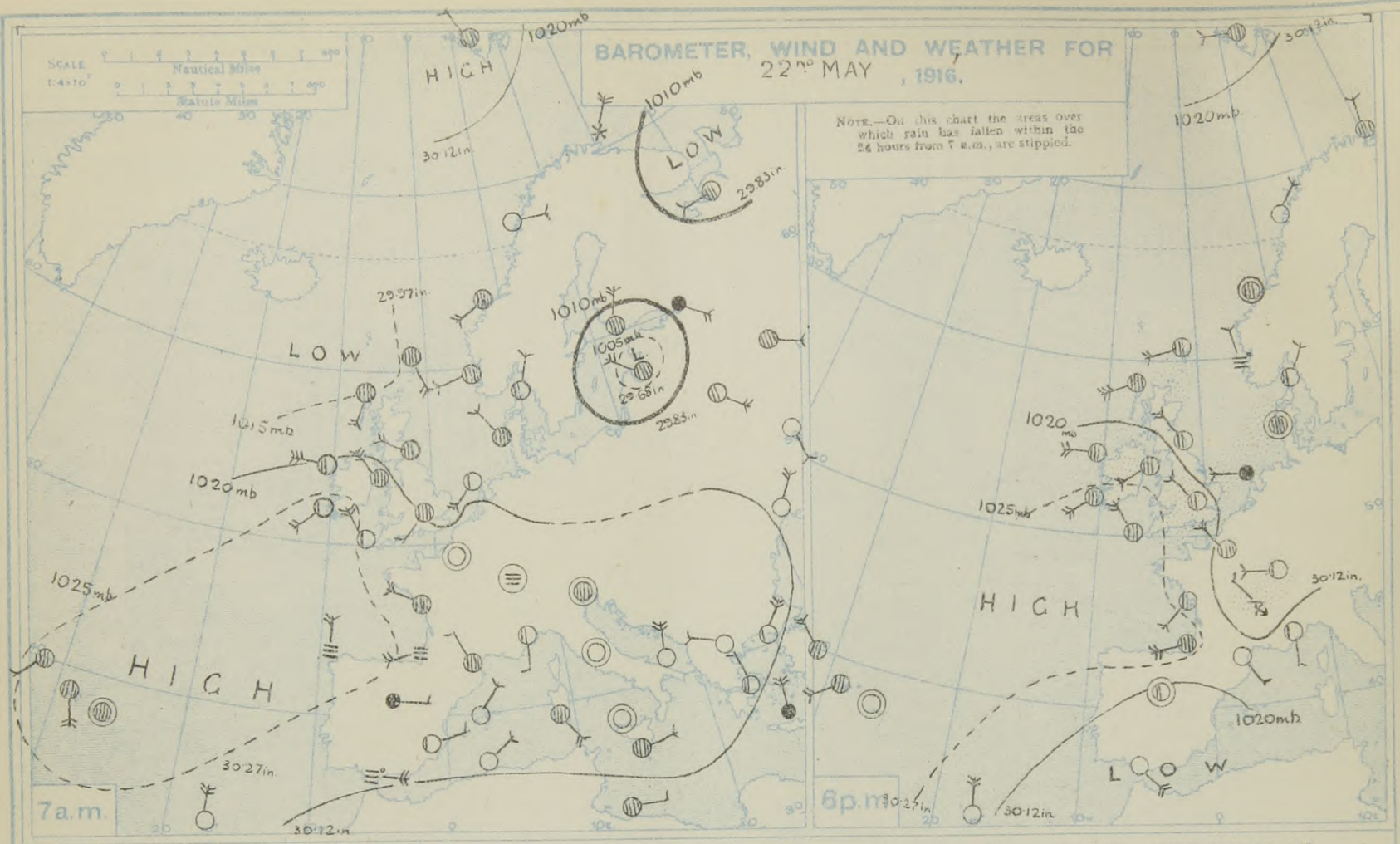
Wind at 11,000 ft.	WbyS	25	m.p.h.
" " 10,000	WbyN	24	"
" " 9,000	WNW	20	"
" " 8,000	NNW	7	"
" " 7,000	NW	10	"
" " 6,000	WNW	13	"
" " 5,000	NWbyW	12	"
" " 4,000	NWbyW	10	"
" " 3,000	NWbyW	10	"
" " 2,000	NWbyN	10	"
" " 1,000	NWbyN	11	"
" Surface	WNW	4	"

Aberdeen:- 7h.

Wind at 7,000 ft.	WSW	21	m.p.h.
" " 6,000	WSW	16	"
" " 5,000	SW	19	"
" " 4,000	SW	20	"
" " 3,000	SW	15	"
" " 2,000	SSW	11	"
" " 1,000	S	15	"
" " 500	SSE	15	"
" Surface	SE	7	"

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

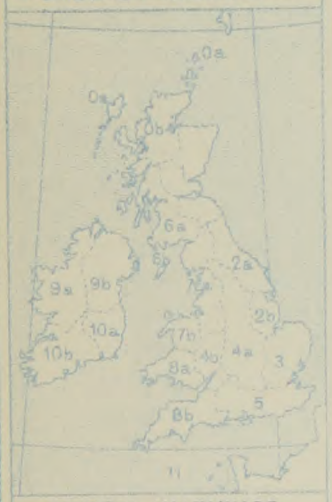
BAROMETER, WIND AND WEATHER FOR 22nd MAY, 1916.



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

FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b } Southerly and South-Westerly winds, moderate to strong; rainy; cool.

1, 2 a, b } South-Westerly and Southerly winds, light or moderate; fair to showery; mild.

3, 4 a, b, 5 } Wind backing to West or South West, light or moderate; fair to-day, then less settled; moderate warmth.

6 a, b } Same as No. 0.

7, 8 a, b, 9 a, b, 10 a, b } Wind Southerly or South-Westerly, moderate or fresh, strong at times locally later; rain or showers extending over from the westward, mist or fog locally; cool.

Western Channel and Bay 11 } South-Westerly and Southerly wind, light to moderate; sea smooth to moderate; fair, then showery, some mist or fog.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 23RD MAY, 1916.

GENERAL INFERENCE.

The Atlantic depression seems likely 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 ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ⚈ rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder. ⚡, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈.

HIGH 1020mb. 30·12in.

LOW 1010mb. 1015mb. 1020mb. 1025mb.

Barometer steady 50°

Barometer falling 50° 29·83in. 29·97in.

Barometer rising 60°

30·27in. 30·12in.

Normal Temperature of the Sea

Below 30° 40-50° 50-60° Above 60°

Scale of Tints for MAY.

Issue No. 19906

DAILY WEATHER REPORT.

Tuesday, 23rd May, 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	1009·1	34	WSW	2	0	1009·3	0	37	.	W	2	*	c	*	2	*	30
Gorki	1018·9	40	N	1	bc	1012·8	+4	43	+2	SE	3	*	bc	*	-	*	*
Veliki Luki ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Hangö	1008·0	37	SSW	5	r	1009·1	+4	37	0	NNE	3	*	0	*	4	*	30
Riga	1012·8	44	SSW	3	r	1004·7	+1	41	+9	NW	3	*	0	*	12	*	39
Petrograd ...	1014·5	41	S	3	0	1011·8	0	37	0	SE	3	.	r	*	1	45	37
Moscow ...	1019·1	43	NW	2	0	1017·6	-1	30	-11	ESE	2	*	0	*	-	*	37
Kiev	1020·6	45	N	3	0	1018·3	+2	46	+3	WNW	2	*	m	*	-	*	87
Kharkov	1019·4	50	NW	2	0	1018·1	0	52	0	S	2	*	b	*	6	*	45
Kishinev	1022·6	46	WNW	3	c	1021·2	+2	45	+2	NW	2	*	b	*	1	*	41
Elisabetgrad ...	1019·7	46	NW	1	b	1018·3	+1	46	+3	W	2	*	b	*	-	*	34
Nicolaiev	1020·2	50	W	2	b	1018·7	*	43	-3	-	0	*	b	*	-	*	41
Odessa	1021·1	66	NNW	3	m	1019·4	+1	48	+3	NNE	3	*	b	*	-	*	41
Tarkhankout ...	1020·8	54	NW	4	b	-	-	-	-	-	-	*	-	-	-	*	-
Soukhoum	1012·4	66	-	0	0	1011·3	?	63	-	NW	1	*	r	*	23	*	?

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 hrs G.M.T

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	6	51	47	c	bc	1·3
	Banff	1	55	50	bc	bc.	1·7
	St. Andrews	5	62	47	c	c	2·2
	Carnoustie	6	63	53	bc	bc.	8·0
Eng. N.E.	Harrogate	7/3	61	51	o.c.p.c	c.bc.b.	4·4
	Skegness		64	59	o.cr	r.c.o.	3·2
Eng. N.W.	Morecambe	3	57	51	-	-	6·7
	Blackpool						
	Southport	2	57	50	o.c.bc.b	b	6·8
Midlands.	Buxton	1	64	48	bc	bc	6·5
	Leamington Spa	2	61	58	or	c.bc.	1·5
	Malvern	3	63	54	m.c	bc	3·0
	Ross-on-Wye	3	68	58	or.c	c.bc.b	4·6
Wales.	Rhyl	1	58	49	p.o.c	c.bc.b.	7·3
	Colwyn Bay	1	60	49	bc	bc	7·3
	Llandudno	2	59	49	c	c.b.	8·7
	Aberystwyth	5	56	49	r.o.c	r.bc	8·7
	Tenby	1	65	54	-	-	7·0
England. E.	Lowestoft	6	69	51	c.bc	bc.c.op.	5·3
	Felixstowe	3	72	54	bc.	othr	4·8
	Walton-on-Naze	Trace.	71	56	b.bc	bc.p.bc	3·9
	Southend-on-Sea	-	73	56	b.bc.c.o	op.	2·3
England. S.E.	Margate	-	72	60	bc.c	c	3·6
	Ramsgate	-	74	?	bc	o	5·2
	Hastings	1	73	57	b.bc.o	op.c.	5·3
	Eastbourne	0·4	71	53	b.bc.op	o.bc.	4·5
	Seaford	Trace.	69	58	bc	bc	4·6
	Brighton	-	68	53	o.c	c	2·9
	Worthing	-	73	57	c	c.	2·4
	Littlehampton	-	71	60	b.bc.	bc.	0·7
	Bognor						
	Bournemouth	0·3	68	53	or.o	c.	6·2
England. S.W.	Weymouth	2	68	55	cp.bc.	bc.bz.	6·5
	Torquay	1	67	57	o.c.bc.	b.	6·7
	Paignton						
	Penzance	1	60	53	c.bc	bc.b.	8·0
	Newquay	1	56	51	b	b	7·5
	Bude						
	Ilfracombe	1	55	47	d.o.bc	bc.b.	5·5
	Weston-super-Mare	-	69	52	o.c.bc.	b.	5·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h G.M.T Yesterday.	Humidity. 9h G.M.T. 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 0 To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	75	57	1·9	74	44	30	-	c.o	oc.	bc.bc2
City (Bunhill Row)	*	*	2·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	?	49	2·1	74	46	48	-	op.bc	o.	bc.obc
Camden Sq. (Brit. Rainfall)	70	55	1·9	72	47	44	-	c.oo	o.c	*
Hampstead (Reservoir) ...	*	65	2·1	68	44	31	Trace	-	-	b bc.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	2·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	71	59	2·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1018·1 Joules	19·0 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 8 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·2	77	59	65	bc. o.	o.op.	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 May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 48 / 3. 47	11. 49 / 11. 50	19. 50 / 19. 52
Greenwich	4. 0 / 3. 59	11. 56 / 11. 57	19. 52 / 19. 54
Wick	3. 32 / 3. 30	12. 8 / 12. 9	20. 45 / 20. 47
Valencia	4. 39 / 4. 38	12. 37 / 12. 38	20. 38 / 20. 38

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 70° in several parts of southern England. Slight rain fell in various parts of the kingdom and thunderstorms occurred at Yarmouth and Felixstowe. Except locally the duration of sunshine was not large.

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

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§ 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. 145. Wednesday, 24th May.

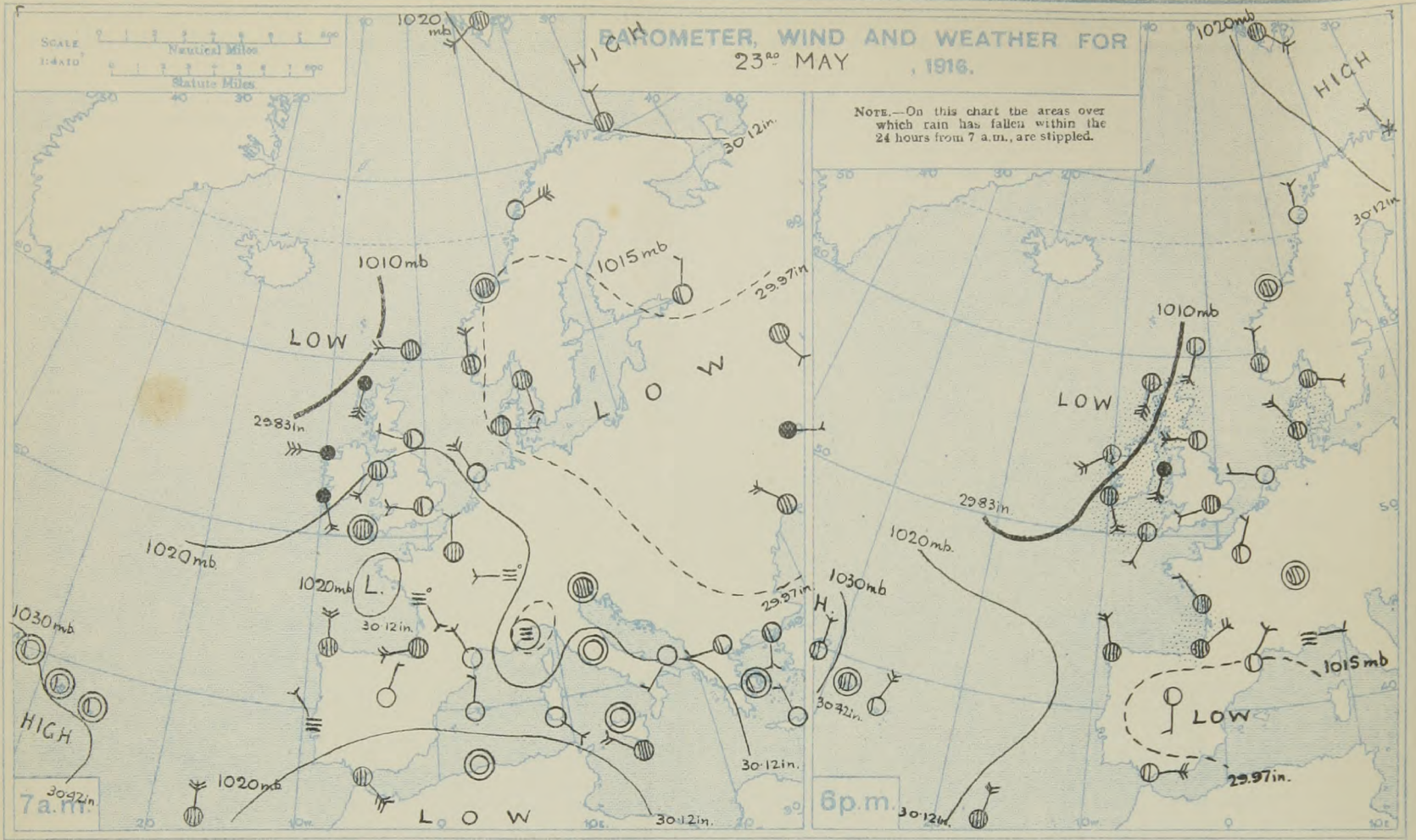
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
								‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1012.3	51	SSW	3	bc	1010.9	0	50	+1	S	3	S	cm	3	–	52	47	bcm	bc	cm	*
	Deerness (Orkney)	1010.5	50	SE	3	ou	1009.1	*	50	0	SE	3	W	by	2	1	51	46	c.o	ou	o.c.bc.b	2.0
	Stornoway ...	1008.3	53	SSW	6	cq	1005.3	-2	50	+2	SE	5	–	o	4	2	54	47	od.dpq	odp.cq	bc.o	0.5
	Castlebay (Barra Isd.)	1008.4	51	SSW	5	o	1003.4	-2	49	0	SE	5	–	r	5	1	52	48	r.ofm	m.op	ofq.or	0.4
	Glasgow ...	1013.3	52	SSW	3	oqd	1010.1	-1	48	-2	SE	1	–	omr	*	2	55	48	c.odp.o	odp	od pmr	0.3
	Eskdalemuir ...	1015.0	49	SSW	4	o	1011.2	-1	48	+2	SSE	3	–	o	*	–	56	43	o	o	o	1.4
	Malin Head ...	1009.9	54	SW	3	cm	1001.7	-2	50	0	SW	6	S	cq	6	0.4	56	48	cgmq	cmp	cq	3.0
	Blacksod Point	1008.6	53	SW	4	bcm	1002.4	+4	48	-3	W	4	W	bc	4	6	56	46	cm	bcm	omr.bc	*
	Valencia ...	1010.4	53	SSE	4	o	1006.0	0	50	-2	S	3	SW	c	3	14	56	46	orm	om	r.c	0.0
	Roche's Point	1015.4	52	SW	3	o	1006.7	*	51	-1	SW	3	SW	bc	*	7	53	34	or	or.f	r.o.bc	*
	Birr Castle ...	1011.2	55	S	2	o	1006.1	*	50	-1	SW	1	–	o	*	3	56	48	or	or.o	or o	0.0
	Donaghadee ...	1012.8	54	SSW	4	ogmp	1007.8	-2	49	-1	SSW	4	–	omrq	3	1	56	49	ogmp	ogmp	ogm.or	*
	Liverpool (Bidston)	1016.1	56	WSW	3	c	1011.0	-2	51	-3	S.E	2	S	o	2	–	65	48	bc	b	b	9.7
	Holyhead ...	1016.2	51	SSW	4	omr	1010.0	-1	? 51	+1	S	5	–	oq	4	–	56	49	c.bcq	bc.c.o	o c o	6.1
	Pembroke (St. Ann's)	1018.3	51	SSW	3	c	1010.2	-1	50	0	SSW	4	–	dp	3	1	68	49	bc.c	c	c.op	8.0
	Scilly (St. Mary's)	1018.9	55	SSW	2	bc	1010.4	-1	52	+1	S	3	S	cp	4	1	59	49	c	bc.c	cv.cmp	7.4
	Falmouth ...	1018.0	55	SW	1	c	1010.0	-3	52	0	S	1	–	c	*	–	62	46	bc	bc.c	b.bc	3.6
	Jersey (St. Aubin)	1018.8	59	N	3	b	1011.3	*	56	+3	E	1	–	om	1	–	64	50	o.c.o	o.c.b	b.om	6.8
	Portland Bill ...	1018.8	54	W	2	bc	1012.0	-1	52	-1	E	2	E	o	3	–	58	49	c.bc	c.bc	bc.o	*
	Dungeness ...	1018.9	55	W	2	bc	1013.4	-1	55	+1	E	2	–	b	1	–	62	49	bc	bc	bc.b	*
	Dover	1019.4	58	SW	1	c	1013.6	-1	53	-2	SE	2	–	b	2	–	63	44	bc	bc	c.bc.bm	9.0
	Wick	1010.2	50	SSW	2	c	1010.0	-1	49	-1	S	3	–	c	3	–	58	46	bcm.c	c	ovng.cm	*
	Nairn	?1010.4	59	SW	1	cg	1007.9	*	55	+2	SW	1	–	c	1	Trace	61	44	cg o	o.c	cw	0.6
	Aberdeen ...	1012.2	57	SSW	4	c	1010.7	0	51	-2	S	3	–	o	2	0.2	61	48	bcg	cg	c.g.p	6.8
	Leith	1013.0	57	W	1	o	1010.8	-1	51	+1	S	1	–	o	2	1	61	49	c.op.o	o	op.odw	*
	Tynemouth ...	1015.1	61	W	3	bcmq	1012.4	-2	52	+2	SSW	2	–	cm	2	–	63	46	cm	bcm	cm	*
	Spurn Head ...	1017.6	55	W	2	o	1013.9	-1	54	-4	SSE	3	–	c	3	–	63	50	bcm	c.om	om	5.4
	Yarmouth ...	1018.5	55	SSW	4	c	1015.0	-2	54	+4	S	3	–	bc	3	–	63	50	cm.bc	c	o.bcm	6.3
	Clacton-on-Sea	1018.5	59	SSE	3	c	1014.2	-1	58	+7	SE	4	–	bc	3	–	64	51	bc.c.bc	bc.c	c.bc	6.8
	Nottingham ...	1017.1	60	S	1	c	1013.0	*	53	-1	SE	1	S	omw	*	–	65	44	c.o	c.o	o.c	4.9
	Benson (Oxon.) ...	1017.6	62	SW	3	c	1013.0	-1	53	0	SE	2	–	bc	*	–	63	46	bc	bc	bc	*
	Sth Farnborough	1017.7	65	SW	2	b	1012.4	-2	54	-1	SE	2	–	bc	*	–	67	42	bc.o	o.b	b.bc	7.6
	London (Kew Obsy.)	1018.0	63	WSW	2	o	1013.4	-2	56	+3	ESE	1	–	cm	*	–	68	47	bc.c.o	o	o.b.bm	6.8
NORTHERN EUROPE.	Spitsbergen ...	1020.1	36	SE	4	o	1022.3	+1	37	+3	S	1	*	o	*	*	37	32				
	Vardö	1023.5	32	NNW	3	s	1025.7	+2	36	+2	NE	3	–	o	3	*	36	24				
	Bodö	1017.2	46	N	2	b	1018.3	0	48	+3	E	2	–	b	2	–	50	41				
	Christiansund	1016.3	48	–	0	c	1016.7	0	48	+5	–	0	–	c	2	–	48	43				
	Skudesnaes ..	1016.2	50	N	2	c	1016.6	0	50	+4	S	2	–	f	1	–	52	46				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1015.9	48	ESE	2	o	1017.5	+1	48	-2	SE	2	–	o	2	1	52	48				
	Blaavands Huk	1016.2	52	NW	3	c	1018.4	+1	50	+2	NNW	1	–	o	0	1	54	46				
FRANCE, &c.	The Helder ...	1019.4	55	W	1	b	1017.0	-2	54	0	SSW	2	–	o	1	–	55	45				
	C. Gris Nez ...	1019.3	59	N	1	bc	1014.3	-3	57	+3	SE	3	*	bc	2	–	64	48				
	La Hève							*					*									
	Brest (St. Mathieu)	1018.4	59	N	3	b	1011.4	?	55	+3	NNW	2	*	bc	2	–	59	50				
	Rochefort (Ile d'Aix)	1016.7	63	NW	1	o	1011.0	-3	61	0	NNW	1	*	r	*	6	72	59				
	Biarritz	1015.5	63	NE	3	o	1010.7	-3	64	+5	WSW	2	*	o	2	11	68	59				
	Paris	1017.7	64	NNE	2	b	1012.8	-2	61	+4	ESE	1	–	c	*	–	70	46				
	Belfort	1018.6	64	–	0	c	1016.4	*	55	-8	E	3	*	m	*	–	75	48				
	Lyons	1016.0	72	N	1	c	1014.4	*	59	-5	ESE	1	*	b	*	–	79	55				
	Nice	1017.6	61	E	1	f	1016.8	0	63	0	–	0	*	o	1	–	68	59				
	Perpignan ..	1015.0	75	NE	2	b	1013.1	-2	68	-2	E	1	NE	o	*	–	82	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1018.0	59	NNW	3	o	1014.1	-4	57	-2	SW	2	–	c	1	–	63	52				
	Madrid (8 a.m.)	1013.5	79	S	1	b	1012.7	0	63	0	–	0	SW	c	*	–	81	57				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1029.2	*	–	0	c							*									
	Madeira (Funchal)	1019.9	66	NNE	4	o	1015.0	+1	61	-2	NNE	4	–	b	3	–	68	61				
	Gibraltar	1016.6	66	E	4	bc	1013.9	*	65	-1	E	3	*	bc	3	–	72	64				
	Malta (8 a.m.) ...	*	*	*	*	*	1018.4	0	66	+2	SSE	3	–	b	1	–	70	61				
	Limassol (6 a.m.)	*	*	*	*	*	1013.9	+2	73	+1	W	2	–	b	2	–	77	50				
	Alexandria (6 a.m.)	1017.2	66	N	5	bc	1017.1	+2	68	+2	NNW	3	N	bc	2	–	75	64				
	Cairo (Helwan 6 a.m.	1018.4	68	NW	3	b	1015.8	0	64	-2	N	2	–	b	0	–	79	57				
	YESTERDAY'S REPORTS	..22nd.., 8 P.M. G.M.T.					..23rd.., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice						1017.6	0	68	+2	–	0	*	o	2	–	72	64				
	Turin						1017.6	0	69	+3	–	0	*	c	*	–	79	64				
	Pesaro						1018.8	0	68	+5	SSW	1	*	b	2	–	75	55				
	Leghorn						1020.6	.	70	+2	–	0	*	b	1	–	75	63				
	Rome						1021.4	0	63	-3	–	0	*	b	*	–	77	57				
	Viesti						1019.4	0	68	+2	–	0	*	b	1	–	72	69				
	Brindisi						1020.2	0	63	+2	WSW	1	*	b	2	–	63	55				
	Cagliari						1021.6	0	63	+4	SE	2	*	b	2	–	81	54				
	Palermo						1021.9	+1	70	0	–	0	*	b	1	–	77	52				
	Tripoli												*									
	Algiers	1018.6	66	NE	2	b	1017.7	0	66	0	–	0	*	b	2	–	73	61				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..6h 32m..
Wind at 6.000 ft. S 16 mph.
.. .. 5.000 .. SSW 13 ..
.. .. 4.000 .. SSW 11 ..
.. .. 3.000 .. SSW 11 ..
.. .. 2.000 .. SbyE 15 ..
.. .. 1.000 .. SEbyS 16 ..
.. .. Surface SE 7 ..

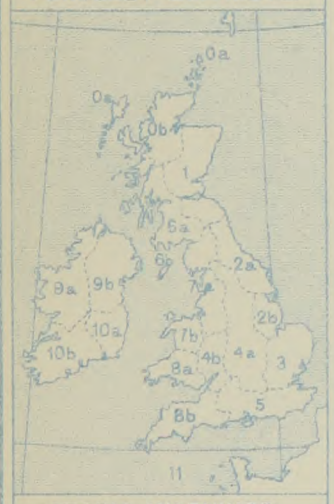
NOTES:-
Blacksod Point. 23rd
Squalls force 9 at 23h
London (Kew Obsy)
Mock Sun observed at 18h 40m - 19h.

* 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 MAY, 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.

No Warnings Issued.

0 a, b; 1 — South-Easterly and Southerly to South-Westerly winds, light to fresh; much cloud, some rain; cool.

2 a, b; 3; 4 a, b — Southerly wind, light or moderate; cloudy to dull; some rain; moderate temperature.

5 — Wind between East and South, light or moderate; fair to dull, some rain later; moderate temperature.

6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b — Southerly and South-Westerly winds, moderate or fresh; changeable, some rain, mist or fog locally on coast; rather cool.

Western Channel and Bay 11 — Southerly and South-Westerly winds, moderate or light; sea moderate or slight; some showers, mist or fog at times.

FURTHER OUTLOOK.

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

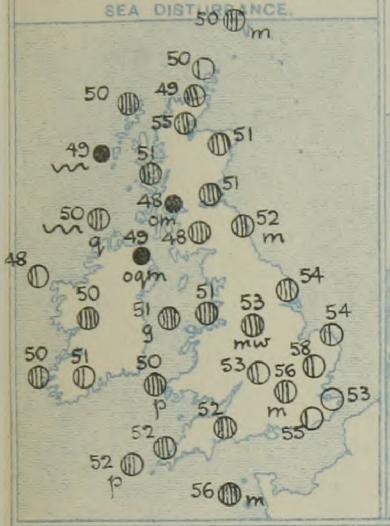
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 24TH MAY, 1916.

GENERAL INFERENCE.

The changes in pressure are rather indefinite, but it appears probable that less settled weather will extend over the kingdom from the westward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

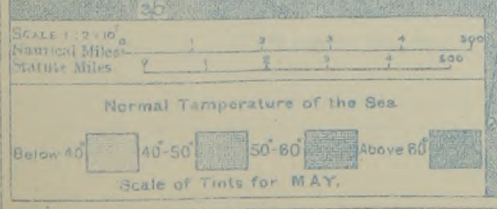
BAROMETER.—Isobars are drawn for intervals of five millibars.

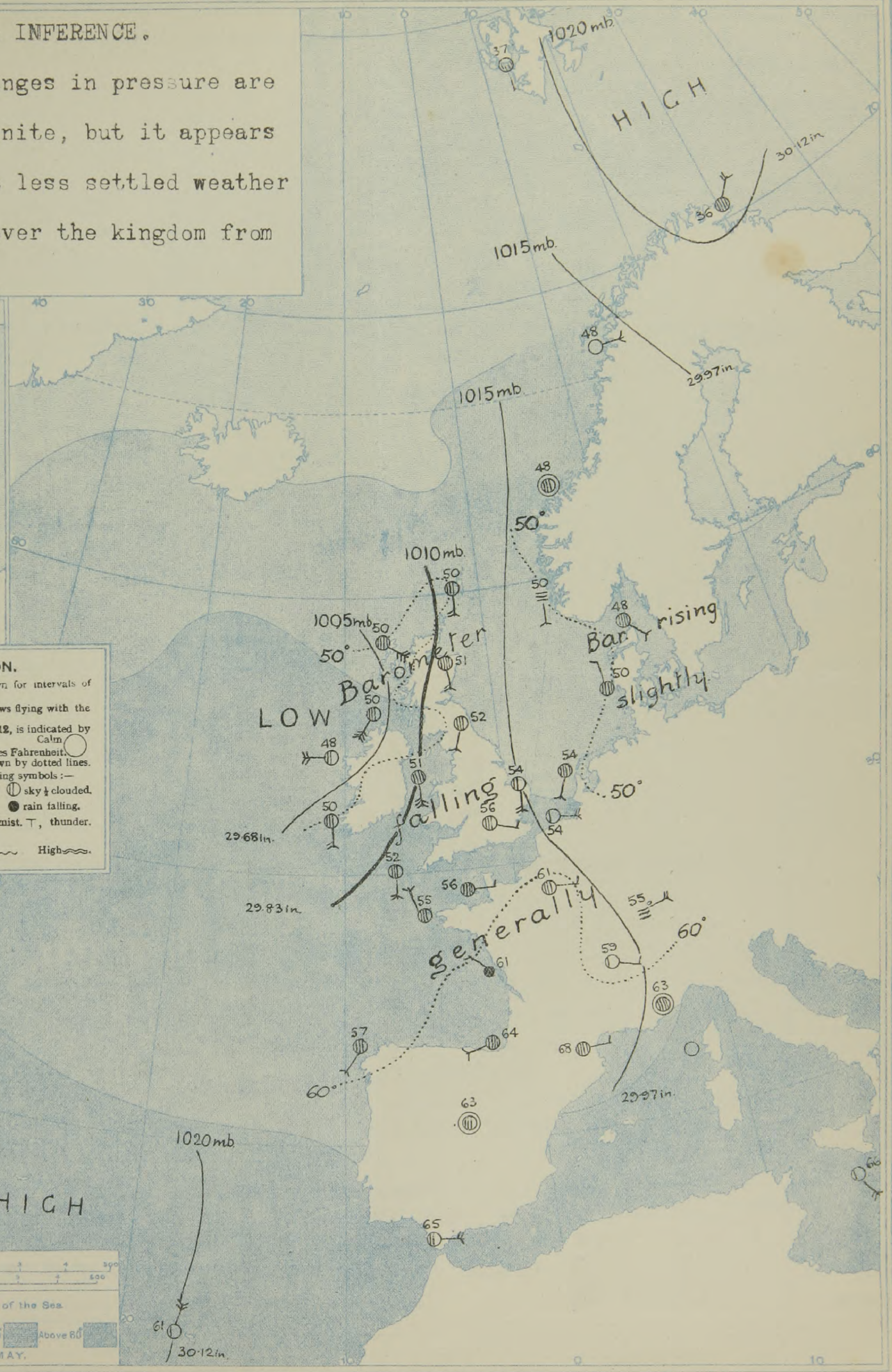
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.





Issue No. 19,907

DAILY WEATHER REPORT.

Wednesday, 24th May 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...22nd AT 9 A.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.								
Archangel	1013.0	56	W	3	c												
Gorki	-	-	-	-	-												
Veliki Luki ...	-	-	-	-	-												
Hangö	1016.3	41	ESE	2	b												
Riga	1013.7	41	NNE	2	b												
Petrograd	1013.7	41	ENE	3	bc												
Moscow	1012.6	46	SSE	1	bc												
Kiev	1013.1	46	SW	2	o												
Kharkov	1014.6	52	-	0	o	1010.4	-2	52		ESE	1	*	r	*	.5	*	50
Kishinev	1015.1	?	NW	2	bc	1013.9	?	50		NW	2	*	bc	*	-	*	45
Elisabetgrad ...	1013.9	48	-	0	b	1012.2	-1	48		WNW	1	*	b	*	-	*	36
Nicolaiev	1014.7	52	-	0	bc	1012.6	*	50		-	0	*	bc	*	-	*	41
Odessa	1014.7	55	ESE	2	c	1013.0	0	54		NW	3	*	c	0	-	*	50
Tarkhankout ...	1016.6	54	W	2	b	1013.7	?	55	/	SW	4	*	0	*	-	*	54
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	53	48	r.o	o	0.2
	Banff	-	63	45	bc	bc	5.5
	St. Andrews						
	Carnoustie	-	62	50	bc.o g	c.o.b.	4.9
Eng. N.E.	Harrogate	-	64	43	b.bc	bc	7.6
	Skegness	-	64	46	b.bc	bc.o u.	6.3
Eng. N.W.	Morecambe	-	61	47	-	-	10.5
	Blackpool						
	Southport	-	63	51	c.bc.c	c.b.bc	9.0
Midlands.	Buxton						
	Leamington Spa	-	66	46	bc	bc	8.0
	Malvern	-	64	49	c.bc	oc.b	9.0
	Ross-on-Wye	-	68	46	bc	b.bc	9.9
Wales.	Rhyl	-	62	49	c.bc.c	bc.b.bc	7.3
	Colwyn Bay	-	62	52	bc	bc	7.5
	Llandudno	-	61	51	b	b.bc	7.8
	Aberystwyth	-	58	50	oc.b	bc.o	7.2
	Tenby	-	64	48	-	-	9.5
England. E.	Lowestoft	-	61	47	c.bc	bc.c	6.9
	Felixstowe	-	63	46	bc	bc	8.4
	Walton-on-Naze	-	61	46	b bc	bc.b	6.5
	Southend-on-Sea	-	67	47	bc.c.o	bc.c.o	4.9
England. S.E.	Margate	-	64	52	b	b.bc.c	8.9
	Ramsgate	-	64	47	c	c	6.2
	Hastings	-	63	48	b	o.bc	8.0
	Eastbourne	-	61	50	b.bc	bc	8.2
	Seaford	-	62	45	b	b	7.4
	Brighton	-	61	49	c	c	6.2
	Worthing	-	63	?	bc	bc	7.8
	Littlehampton	-	61	46	b bc	b	7.6
	Bognor						
	Bournemouth	0.3	68	48	c.bc	bc	4.0
England. S.W.	Weymouth	-	64	49	c.bc	bc	2.8
	Torquay	-	62	48	c.o	c.o	0.7
	Paignton						
	Penzance	-	60	51	c.bc	bc	3.7
	Newquay	-	61	49	b	b	0.7
	Bude	-	60	53	b.bc	bc.c	4.4
	Ilfracombe	-	59	48	c.bc	c.o	3.5
	Weston-super-Mare ...	-	61	50	bc.b	b.bc	6.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h.G.M.T. Yesterday.	Humidity. 9h.G.M.T. 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.) ...	87	67	5.8	69	43	40	-	c	c.o	bc.b l.c
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	51	62	6.4	66	49	49	-	bc u	bc.b em	o.
Camden Sq. (Brit. Rainfall)	49	59	4.4	71	51	47	-	b bc	o.bc	*
Hampstead (Reservoir) ...	*	61	6.1	65	49	36	1	-	-	bc.p b m
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	6.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M O.)	57	58	6.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.	Total.	Average Rate.	Max. Rate.
	1587 Joules	27.8 Milliwatts.	72 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 16h. G.M.T.	-	60	52	49	c	c	c	*
Darwen to 21h. "								
Manchester "								
Birmingham "	-	67	48	*	bc.o	o.c	c.bc	5.6
Oxford to 20h. "	*				*			*
Teignmouth to 21h. "								
Plymouth "								
S. Kensington (Museum Grounds to 16h. G.M.T.)	-	68	47	36	bc.b c	a c	c	*

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

24th & 25th May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 47 / 3. 46	11. 50 / 11. 50	19. 52 / 19. 54
Greenwich	3. 59 / 3. 58	11. 57 / 11. 57	19. 54 / 19. 56
Wick	3. 30 / 3. 29	12. 9 / 12. 9	20. 47 / 20. 49
Valencia	4. 38 / 4. 37	13. 38 / 13. 38	20. 38 / 20. 39

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 60° in the north and west, but exceeded 65° in the south-east. Rain fell in the west and north; 14 mm. at Valencia. Many hours of bright sunshine were recorded in most 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.

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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. 146. Thursday, 25th May.

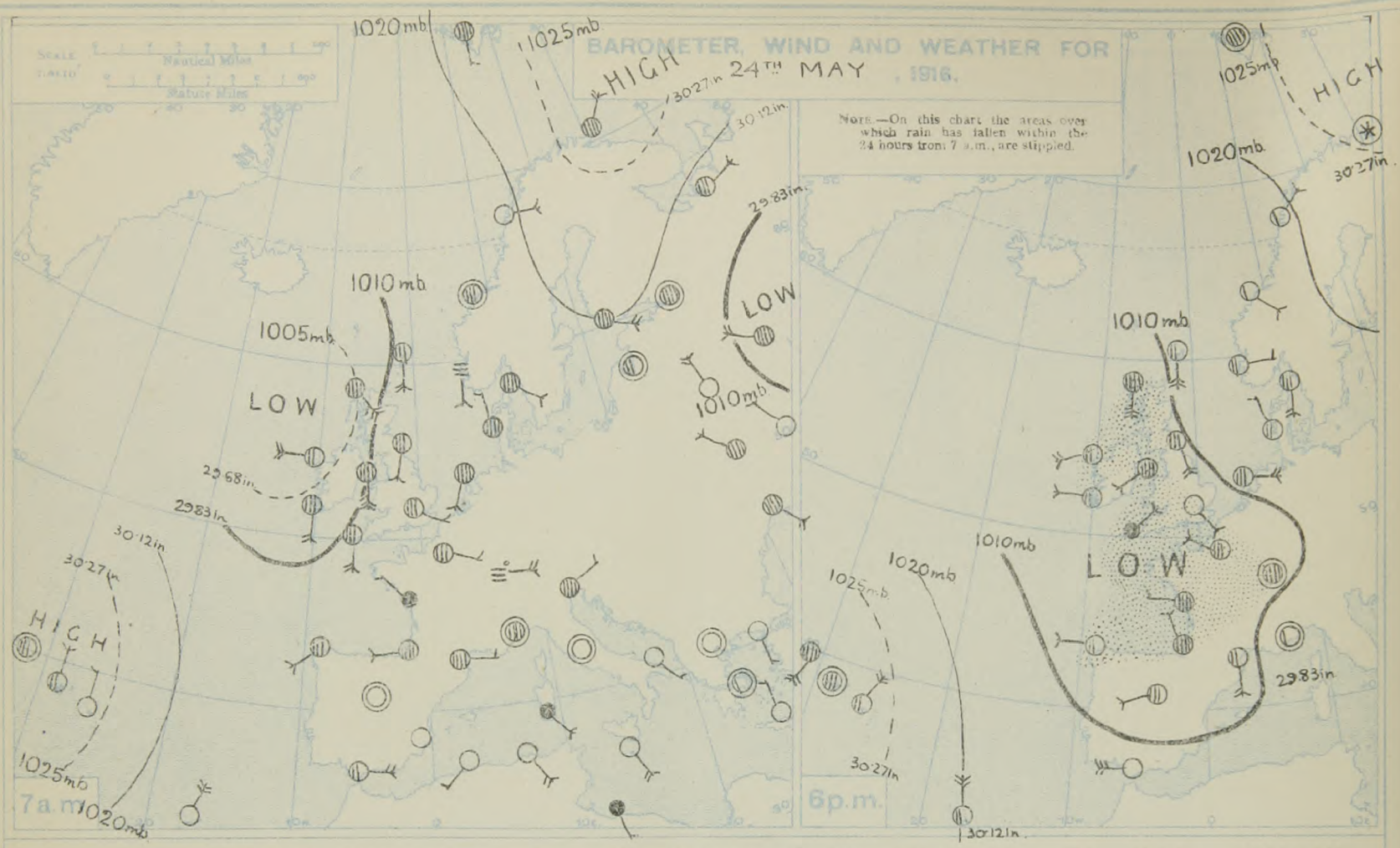
	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
								‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1011·7	53	S	4	bcm	1015·1	+½	48	-2	S	4	-	cm	5	-	54	47	bc	bc	cm	*
	Deerness (Orkney)	1009·1	50	SE	5	cm	1012·2	*	49	-1	ESE	4	SE	o	4	2	53	48	b. bc	bc. c. cm	cm. o	10·8
	Stornoway ...	1006·9	51	S	5	cq	1007·4	0	50	o	-	o	-	cm	o	0·3	55	46	cq	o. bc. cq	c. cbm	2·3
	Castlebay (Barra Isd.)	1006·1	61	SSE	4	b													r. c. o	a. c. b		
	Glasgow ...	1008·4	53	WNW	2	cm	1006·2	-1	49	+1	ENE	3	S	bc	*	1	60	47	cdp	o. c. o	cm. cp	0·6
	Eskdalemuir ...	1008·6	55	SW	2	o	1006·2	-2	48	o	NE	5	S	c	*	1	61	45	o. c	c. o	o. d. o	3·0
	Malin Head ...	1005·4	50	NE	4	cm	1004·8	-2	48	-2	NE	2	-	omr	2	5	53	47	cq	cmp	omr	7·6
	Blacksod Point	1005·5	52	WSW	3	bc	1005·3	o	47	-1	NW	1	-	bc	2	1	54	43	bc	bc	bc	*
	Valencia ...	1006·3	54	W	2	bc	1006·6	o	49	-1	WNW	3	NW	bc	3	4	54	44	c. o. bc	bc. c	bc. b. bc	9·2
	Roche's Point	1007·5	53	SSW	3	o	1006·3	*	50	-1	NNW	3	SW	b	2	-	56	47	bc	c. o	o. b	*
	Birr Castle ...	1005·3	56	SW	1	c	1005·0	*	47	-3	NW	1	-	r	*	1	59	46	cp	cp	c. odr	4·0
	Donaghadee ...	1007·1	52	S	3	cm	1003·5	-1	47	-2	NNE	3	-	omr	3	5	53	46	oq. mp	oq. m	omr	*
	Liverpool (Bidston)	1006·4	57	WNW	1	c	1001·9	-1	53	+2	S	2	S	oq	2	4	64	51	o	c. o	or. o	0·6
	Holyhead ...	1006·9	53	SW	2	oq	1001·5	-3	50	-1	NE	4	-	fr	3	2	58	48	o. c. o	o. c. op	c. br. f	0·7
	Pembroke (St. Ann's)	1006·5	50	W	2	s	1002·4	o	49	-1	NNW	3	-	o	4	2	52	47	op	op	cp. o	0·1
	Scilly (St. Mary's)	1006·3	51	NE	2	orm	1005·2	o	50	-2	NW	5	NW	c	5	8	54	47	c. omd	c. r. m	cm. r. cp	0·0
	Falmouth ...	1005·4	53	WNW	1	o	1003·4	+1	49	-3	NW	2	-	od	*	1	58	46	c. o	op. o	bc. od	1·7
	Jersey (St. Aubin)	1005·5	62	ESE	1	cq	1003·6	*	54	-2	SW	2	-	o	2	-	64	51	om. b o	cq. b cq	cq. b. o	3·0
	Portland Bill ...	1005·9	55	E	2	bc	1000·9	+2	52	o	W	3	-	c	3	3	58	51	bc	bc. c	c. or. bl	*
	Dungeness ...	1007·8	55	E	1	o	1003·2	-1	54	-1	E	2	-	r	2	1	60	51	bc. o	o. c. o	o. b. or	*
	Dover	1009·5	62	E	2	c	1008·5	-1	55	+2	SE	2	-	omr	2	1	64	51	b. bc. c	c. bc. c	c. omr	2·4
	Wick	1008·3	50	SE	3	m	1011·4	+3	47	-2	SE	3	-	m	4	-	54	47	cm	cm	omq	*
	Nairn	1007·7	56	-	o	cq	1008·6	*	54	-1	-	o	-	cq	1	2	59	48	br. c	cq. q	ou	0·5
	Aberdeen ...	1010·1	53	S	2	o	1011·3	+1	50	-1	SE	4	-	o	3	-	59	47	o. bc	bc. b. o	o	3·9
	Leith	1008·5	53	W	1	o	1007·5	o	50	-1	E	2	-	o	3	0·2	58	48	o. cq. o	o	cqp. o	*
	Tynemouth ...	1009·2	51	SSE	4	cmq	1008·0	-1	50	-2	SE	3	SE	cm	4	-	58	47	cm	cmq	cm	*
	Spurn Head ...	1009·8	54	SSE	6	bc	1005·6	-1	54	o	SE	6	-	bc	5	-	59	50	cm	bcq	bc	5·0
	Yarmouth ...	1009·6	52	SE	5	bc	1004·9	-3	53	-1	ESE	3	-	om	3	-	57	52	b. bc	bc	bcm	11·2
	Clacton-on-Sea	1008·5	58	E	4	c	1003·8	o	55	-3	E	4	-	o	4	-	60	55	bc. c. o	o. c	c. o	4·1
	Nottingham ...	1007·0	64	SE	2	b	1003·3	*	53	o	E	3	SE	c	*	-	67	49	o c	o c b	b	5·3
	Benson (Oxon.) ...	1003·8	65	SE	3	b	1001·8	-1	54	+1	ESE	4	-	r	*	1	69	53	bc	bc	b. or	*
	Sth Farnborough	1006·1	66	SE	2	bc	1001·4	-1	55	+1	SE	3	-	or	*	4	71	54	bc	bc	bc. or	9·5
	London (Kew Obsy.)	1006·5	69	SE	2	b	1002·4	o	56	o	ESE	2	-	orm	*	0·2	41	54	cm. o. c	c. bc. b	b. bc. or	8·8
NORTHERN EUROPE.	Spitsbergen ...	1024·0	34	-	o	o	1024·7	o	37	o	-	o	*	o	*	*	39	34				
	Vardö	1026·9	30	-	o	S	1026·4	+2	32	-4	-	o	-	bc	1	*	37	32				
	Bodö	1019·5	48	NE	2	b	1019·8	o	52	+4	-	o	-	b	o	-	52	41				
	Christiansund	1018·1	50	SE	2	b	1020·0	o	50	+2	-	o	-	c	2	-	54	45				
	Skudesnaes ..	1017·5	52	E	1	bc	1018·0	o	52	+2	ENE	3	-	b	1	-	55	48				
	Færder (X'ania Fjord)																					
	The Scaw (Skagen)	1018·7	50	S	3	c	1019·9	o	52	+4	SSE	1	-	b	1	-	52	48				
	Blaavands Huk	1017·1	54	NNW	1	bc	1015·5	-2	48	-2	ESE	4	W	c	4	-	55	43				
FRANCE, &c.	The Helder ...	1011·9	63	E	3	c	1006·3	-1	55	+1	E	4	-	o	2	-	63	55				
	C. Gris Nez ...	1008·6	59	SSW	2	o	1003·8	-1	55	-2	SE	1	*	r	2	2	70	54				
	La Hêve							*					*									
	Brest (St. Mathieu)	1006·9	57	SW	2	o	1005·3	+2	52	-3	NW	4	*	c	2	1	64	50				
	Rochefort (Ile d Aix)	1006·0	61	W	1	o	1007·1	+3	57	-4	WNW	-	*	o	*	12	64	55				
	Biarritz	1007·8	61	NNW	2	o	1010·0	+2	54	-10	SW	3	*	r	3	4	64	54				
	Paris	1006·9	59	NW	1	bc	1005·2	+1	59	-2	S	2	-	r	*	24	72	52				
	Belfort	1009·9	64	-	o	o	1011·4	*	63	+8	-	o	*	m	*	1	73	52				
	Lyons	1011·4	72	SSW	3	o	1009·3	*	66	+7	S	5	*	c	*	-	79	59				
	Nice	1014·7	61	-	o	b	1014·0	+1	66	+3	E	2	*	bc	o	-	70	54				
	Perpignan ..	1007·5	77	S	3	bc	1007·9	+1	66	-2	S	3	-	o	*	-	84	61				
	Sanguinaire ...	*	70	N	3	m	*	*	64	-	E	1	*	b	3	-	77	59				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1011·3	55	W	2	bc	1013·7	+5	52	-5	SW	2	-	o	1	20	66	48				
	Madrid (8 a.m.)	1006·7	73	WSW	2	c	1011·4	+3	54	-9	WNW	2	W	c	*	?	75	50				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1027·9	*	-	o	c							*									
	Madeira (Funchal)	1020·0	66	N	4	bc	1022·3	+2	61	o	N	3	-	c	3	-	66	61				
	Gibraltar	1012·8	67	W	5	b	1015·6	*	59	-6	NW	6	*	b	5	-	76	59				
	Malta (8 a.m.) ...	*	*	*	*	*	1016·8	+3	66	o	ESE	3	-	c	1	-	70	63				
	Limassol (6 a.m.)	*	*	*	*	*	1015·1	+2	73	o	W	2	-	b	2	-	79	52				
	Alexandria (6 a.m.)	1017·0	66	NW	3	b	1016·0	+2	72	+4	NNE	3	N	b	2	-	75	64				
	Cairo (Helwan) (6 a.m.	1013·5	72	N	3	b	1014·6	+2	68	+4	N	1	-	b	o	-	79	61				
YESTERDAY'S REPORTS		..23rd..., 8 P.M. G.M.T.					..24th..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1016·1	70	-	o	c	1015·3	o	68	o	ENE	1	*	o	4	-	75	64				
	Turin	1015·4	66	-	o	c	1016·3	o	63	-6	-	o	*	o	*	1	79	61				
	Pesaro	1016·4	68	-	o	b	1016·1	o	70	+2	-	o	*	b	1	-	79	63				
	Leghorn	1018·6	70	-	o	b	1017·7	o	68	-2	-	o	*	c	3	-	75	63				
	Rome	1019·7	66	-	o	b	1016·9	o	66	+3	-	o	*	b	*	-	79	54				
	Viesti	1017·6	70	-	o	b	1017·2	o	70	+2	-	o	*	b	1	-	77	59				
	Brindisi	1017·2	64	NNW	1	b	1017·6	o	66	+3	SSE	1	*	b	2	-	73	55				
	Cagliari	1017·5	61	WSW	4	b	1017·6	o	54	-9	SE	2	*	r	2	-	79	54				
	Palermo	1019·6	61	-	o	b	1017·6	o	70	o	-	o	*	b	1	-	77	55				
	Tripoli	1017·2	63	E	1	c	1016·9	o	63	-	SSE	1	*	r	4	4	66	61				
	Algiers	1015·0	66	-	o	b	1012·2	o	70	+4	SW	1	*	b	2	-	73	61				

RAINFALL

Equivalents of Millimetres in Inches.

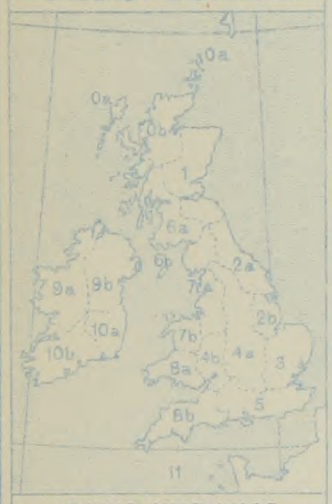
mm.	Inches	mm.	Inches
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

* 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 2 {a b}

South-Easterly winds moderate to strong; dull generally, rain at times; cool.

3 4 {a b} 5

Wind between East and South-East or South, light to moderate or fresh; rain at times, improving later; thunder locally; moderate temperature.

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

Wind from some Northerly point, light or moderate ; mostly cloudy or dull, rain at times, thunder locally; cool.

Western Channel and Bay 11

North Westerly winds, moderate or fresh; sea moderate; showery.

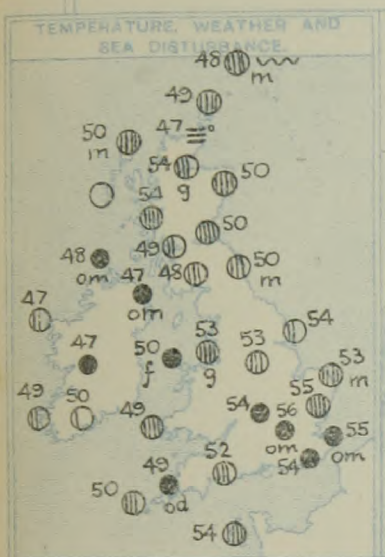
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 25TH MAY, 1916.

GENERAL INFERENCE.

The shallow depression over these islands will continue to affect the winds and weather during the ensuing 24 hours.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈.

Scale of Miles
Nautical Miles 0 1 2 3 4 5
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 MAY.

1025mb. 37 HIGH 32 1020mb. 30·27in. 52 50° 50 1015mb. Barometer 48 rising 1010mb 50 52 52 50 30·12in. Barometer 48 48 50 29·97in. falling 47 50 53 55 1005mb LOW 49 56 57 50° 50 29·68in 60° 54 59 52 63 Barometer 1010mb 57 66 29·83in. rising 66 52 54 66 64 29·97in. 1015mb. 54 66 1020mb. 59 30·12in. 61 HIGH

Issue No. 19,908

DAILY WEATHER REPORT.

Thursday, 25th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...23rd... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	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. °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	-	-	-	-	-	1018·7	+1	36	-	ENE	2	*	o	*	-	*	34
Gorki	1011·8	43	NNW	2	b	1018·7	+5	43	-	NNW	3	*	b	*	2	*	*
Veliki Luki ...	-	-	-	-	-	1013·5	?	41	-	WSW	3	*	bc	*	-	*	*
Hangö	1018·3	43	-	0	b	1020·0	+2	41	-	ESE	3	*	o	*	-	*	34
Riga	1017·7	45	NNW	3	c	1019·0	0	52	-	-	0	*	bc	*	-	*	41
Petrograd	1016·0	43	NE	2	b	1015·8	0	41	-	-	0	-	o	*	-	50	37
Moscow	1007·8	48	NNW	2	o	1005·6	+1	48	-	WNW	3	*	o	*	16	*	37
Kiev	1015·8	43	NW	3	b	1019·0	+1	45	-	NW	2	*	o	*	-	*	36
Kharkov	1011·3	46	-	0	bc	1015·1	+3	48	-4	NW	2	*	b	*	3	*	37
Kishinev	1016·3	57	W	1	bc	1017·7	+1	52	+2	SE	2	*	o	*	-	*	45
Elisabetgrad ...	1014·3	52	N	3	b	1017·6	+2	46	-2	NNW	2	*	bc	*	-	*	36
Nicolaiev	1014·6	55	-	0	b	1017·5	*	50	0	ENE	3	*	b	?	?	*	?
Odessa	1014·9	61	NNE	2	b	1017·3	0	55	+1	ESE	3	*	b	*	-	*	32
Tarkhankout ...	1016·4	57	SW	2	b	1017·7	?	52	-3	SE	1	*	b	*	-	*	37
Soukhoum	1010·9	59	ESE	8	r	1017·7	?	55	-	-	0	*	r	*	43	*	?

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h G.M.T.

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T. Hr.
Scotland.	Oban	10	54	48	or	c	0·3
	Banff	–	62	50	bc	bc.c.	4·1
	St. Andrews	6	58	48	*	*	0·0
	Carnoustie	3	56	48	b	bc.ogp	3·0
Eng. N.E.	Harrogate	–	64	43	c.bc.b	c.bc.	2·9
	Skegness	–	61	51	c.bc	bc.	5·1
Eng. N.W.	Morecambe	–	64	46	-	-	2·0
	Blackpool						
	Southport	–	65	45	o.c	bc.b.o	1·7
Midlands.	Buxton	–	62	37	bc	bc	5·5
	Leamington Spa	–	67	44	o	bc.b	6·5
	Malvern	–	72	47	g.bc	bc.	6·0
	Ross-on-Wye	–	69	43	g.bc.b	bc.	6·2
Wales.	Rhyl	0·3	62	45	c.o.bc.	p.op.	0·4
	Colwyn Bay	–	62	48	bc	bcq	0·3
	Llandudno	1	59	48	c	c	0·0
	Aberystwyth	–	57	47	o.c.o	c.o.	0·7
	Tenby	1	58	49	-	-	0·2

	STATIONS.	Rainfall mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T. Hr.
England, E.	Lowestoft	–	58	52	bc.c	c.o.c.bc.	7·8
	Felixstowe	–	60	53	bc	bc.	5·2
	Walton-on-Naze						
	Southend-on-Sea	–	64	51	o.c.bc.	c.bc.	3·5
England, S.E.	Margate	–	60	50	bc.o	o	1·4
	Ramsgate	–	59	50	c.o	o	2·5
	Hastings	–	66	50	bc.o	o.bc.	3·3
	Eastbourne	–	60	45	bcf	bc.o	2·4
	Seaford	–	71	44	bc	bc	4·5
	Brighton						
	Worthing	–	65	45	o.c	bc.	7·7
	Littlehampton	–	65	45	o.b	b.	7·5
	Bognor						
	Bournemouth	–	62	48	c	c.	9·0
England, S.W.	Weymouth	–	64	48	g.bc.b	b.bcg	8·4
	Torquay	–	62	46	bc.b	b.	8·1
	Paignton						
	Penzance	0·3	57	50	c	c.or	2·0
	Newquay	2	57	44	cp	cp.o	0·0
	Bude	2	60	42	c.bcpt	c	1·6
	Ilfracombe	0·4	58	43	c.bc.c	c.op.o	1·0
	Weston-super-Mare	–	69	46	bc.b	b.bcu	7·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h G.M.T. Yesterday. %	Humidity. 9h G.M.T. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9h G.M.T. To-Day.						
Greenwich (Royal Obsy.)	47	97	8·7	71	49	48	2	b.	bc.	c.o.or
City (Bunhill Row)	*	*	8·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	44	93	10·0	70	54	47	2	bc	bc.op	o.po.e
Camden Sq. (Brit. Rainfall)	50	93	6·3	75	52	49	2	op.	p.	*
Hampstead (Reservoir)	*	97	6·8	68	50	41	3	bc	bc	omror
Richmond Park	*	*								
Kew. (See front page.)	*	*	8·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	45	91	8·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1991 Joules	347 Milliwatts.	81 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 14h.	0·4	61	50	48	cl	c	bc.	*
Darwen to 21h. G.M.T.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 20h. ,,	*							*
Teignmouth to 21h. ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 18h G.M.T.)	–	71	51	51	c.2	bc.	bc.	*

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

25th-26th May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 46 / 3. 45	11. 50 / 11. 50	19. 54 / 19. 56
Greenwich	3. 58 / 3. 57	11. 57 / 11. 57	19. 56 / 19. 57
Wick	3. 29 / 3. 28	12. 9 / 12. 8	20. 49 / 20. 51
Valencia	4. 37 / 4. 36	13. 38 / 13. 38	20. 39 / 20. 40

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 70° at some English stations. Thunderstorms occurred in some southern and western localities, amd thunder at Nairn. Rain fell in most regions, but not heavily in this country.

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. 147. Friday, 26th May.

	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
								‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1015·7	50	SSE	4	bc	1012·5	-½	50	+2	ESE	5	-	o	5	-	51	46	om	bc	bc.o	*
	Deerness (Orkney)	1010·8	48	ESE	5	c	1007·1	*	48	-1	ESE	6	-	f	5	4	50	47	om	m.c	c.orf	0·5
	Stornoway ...	1006·0	54	ESE	6	oq	1002·9	+3	49	-1	S	7	-	bcq	5	7	58	47	cq	c.oq	o.bq.fq	4·9
	Castlebay (Barra Isd.)	1002·2	54	E	2	op	998·5	0	49	-	SSW	5	-	om	6	8	56	46	r.o	op	opr.om	0·0
	Glasgow ...	1002·5	48	ENE	5	omr	1008·3	+4	48	-1	SSW	3	SW	bc	*	4	53	43	c.omp	omqr	r.op.bc	1·5
	Eskdalemuir ...	1002·3	49	ENE	5	o	1009·8	+2	45	-3	SSW	3	-	c	*	4	55	41	c.o	o.or.o	o	0·5
	Malin Head ...	999·2	49	NNW	2	omr	1004·1	+5	48	.0	W	6	NW	cq	4	21	51	43	omr	omr	cqp	0·0
	Blacksod Point	1004·6	52	NW	3	bc	1006·2	+2	48	+1	NW	3	NW	bc	3	4	54	44	bc	bc	cp.bc	*
	Valencia ...	1007·4	52	NW	3	bc	1009·7	+2	47	-2	SW	1	SW	bcp	3	1	54	41	bcvp	bcvp	bc.b.bcp	13·8
	Roche's Point	1007·1	53	WSW	3	c	1010·6	*	49	-1	S	1	W	bc	2	1	59	40	bc.c	cp	cp.b.bc	*
	Birr Castle ...	1005·8	48	W	1	c	1009·2	*	45	-2	SW	1	S	bc	*	3	55	40	c	cph	bc	1·8
	Donaghadee ...	999·5	52	SW	3	om	1008·1	+4	48	+1	SW	3	SW	bcm	3	28	53	43	ofr	ofr	omp.cq	*
	Liverpool (Bidston)	1003·8	54	WSW	2	o	1010·7	+2	49	-4	SE	1	SE	bc	2	7	59	43	or	o.c	o.bc	0·6
	Holyhead ...	1003·7	50	WSW	5	opdq	1010·0	+3	49	-1	WSW	4	-	b	3	15	56	46	fr.or.c	c.opd.o	op.c.bc	0·6
	Pembroke (St. Ann's)	1007·1	51	W	4	bc	1011·5	+1	50	+1	S	2	SE	bc	3	3	52	48	o.or	or.cp	bc	2·0
	Scilly (St. Mary's)	1009·6	54	WNW	4	bcv	1011·3	0	52	+2	SW	2	-	bv	4	1	56	48	bc	bc.bv	b.bcp.b	11·0
	Falmouth ...	1008·7	55	NW	4	b	1011·8	+1	51	+2	W	1	-	b	*	1	57	42	opg.bc	bc.b	bv.bc	7·8
	Jersey (St. Aubin)	1008·9	55	W	4	c	1014·2	*	54	0	W	3	W	b	3	-	58	45	o.c.o	o.bc.c	b	5·8
	Portland Bill ...	1007·0	54	W	4	bc	1013·0	+3	52	0	SSW	2	NW	b	3	-	55	49	c.bc	bc	bc.b	*
	Dungeness ...	1007·6	55	SW	3	bc	1012·4	+3	54	0	NW	4	NW	bc	4	0·3	59	45	or.c	c.bc	bc	*
	Dover	1008·9	53	SSW	4	c	1012·4	+4	54	-1	NNW	4	-	b	2	1	58	46	r.o.c.b	b.bc.c	c.bc.b	6·2
	Wick	1010·0	47	ESE	4	o	1006·3	+2	47	0	SE	4	-	w	4	2	48	46	omq	omq	r.fe.m	*
	Nairn	1006·8	52	E	5	oqu	1005·8	*	54	0	S	1	-	bc	1	0·1	61	45	c.bc.c	c.oq	qu.od	1·6
	Aberdeen ...	1008·2	48	SE	4	o	1008·0	+3	51	+1	SW	3	S	b	3	3	52	46	om.o	om.o	d.rm.ob	0·1
	Leith	1004·0	48	E	2	r	1008·3	+2	51	+1	SW	1	SW	c	2	3	53	45	oge	or.mr	r.ac	*
	Tynemouth ...	1003·7	48	SE	2	ofd	1010·3	+4	48	-2	SW	2	S	cm	3	1	51	45	omq	ofd	cm	*
	Spurn Head ...	1003·2	55	SSE	4	bc	1011·6	+2	51	-3	NW	4	-	cm	4	-	56	48	f	f.bc	bcm	0·1
	Yarmouth ...	1004·9	58	S	5	bc	1011·3	+4	51	-2	NW	3	-	c	2	Trace	61	50	o.fo.d	d.fo.bc	bcm.oe	4·5
	Clacton-on-Sea	1006·3	60	SSW	4	bc	1012·4	+3	52	-3	WNW	3	-	bc	2	-	63	48	ogm.bc	bc	bc.c.bc	6·1
	Nottingham ...	1003·8	60	S	4	bc	1011·8	*	49	-4	SW	1	SW	b	*	1	65	43	c.or	c.bc	bc.c	4·6
	Benson (Oxon.) ...	1005·6	57	SW	3	c	1012·7	+3	51	-3	SW	2	-	b	*	0·1	62	37	c	c	b	*
	Sth Farnborough	1005·9	60	SW	3	bc	1012·6	+2	50	-5	SW	3	S	bv	*	-	63	40	o.c.oc	bc	bc.c.b	7·1
	London (Kew Obsy.)	1006·1	65	SW	4	bcv	1013·5	+3	51	-5	SW	2	S	c	*	1	65	46	or.m.od.d	o.sv.bcv	bcv.ou.c	7·7
NORTHERN EUROPE.	Spitsbergen ...	1026·0	34	—	0	o	1026·6	0	34	0	-	0	*	o	*	*	39	34				
	Vardö	1027·9	34	NW	2	o	1030·0	+2	37	+5	NW	3	-	bc	3	*	37	28				
	Bodö	1021·2	46	E	4	bc	1023·8	+2	46	-6	E	4	-	b	2	-	52	43				
	Christiansund	1021·3	50	NE	2	b	1020·6	0	46	-4	SE	4	-	b	3	-	57	43				
	Skudesnaes ..	1016·4	54	N	2	b	1015·3	0	55	+3	E	4	-	c	2	-	57	48				
	Færder (Xtiania Fjord)																					
	The Scaw (Skagen)	1018·9	55	E	?	b	1018·4	0	50	-2	ESE	3	-	o	3	-	55	48				
	Blaavands Huk	1013·0	55	SE	6	o	1012·3	0	52	+4	SE	4	-	o	3	1	59	48				
FRANCE, &c.	The Helder ...	1006·4	63	SSW	2	c	1010·1	+2	55	0	WSW	1	-	o	0	5	66	52				
	C. Gris Nez ...	1007·8	55	WSW	2	o	1011·9	+4	52	-3	WNW	4	*	bc	3	1	59	50				
	La Hève	1009·4	54	N	3	o	1013·6	*	51	-	WNW	3	*	bc	3	-	63	50				
	Brest (St. Mathieu)	1011·8	55	NW	4	bc	1013·5	0	54	+5	S	3	*	bc	3	-	59	46				
	Rochefort (Ile d'Aix)	1011·1	57	WNW	4	c	1015·4	+3	57	0	N	2	*	c	*	1	64	54				
	Biarritz	1013·3	57	WNW	4	o	1017·5	+3	54	0	SW	4	*	o	4	30	57	50				
	Paris	1009·0	59	WSW	2	r	1013·6	+3	52	-7	NW	1	-	o	*	2	66	50				
	Belfort	1009·9	766	W	3	o	1011·7	*	57	-6	-	0	*	o	*	8	75	54				
	Lyons	1008·2	68	S	3	o	1015·1	*	48	-18	-	0	*	r	*	19	75	48				
	Nice	1012·7	61	E	3	bc	1010·7	-3	63	-3	E	1	*	c	3	Trace	72	57				
	Perpignan ..	1010·1	59	N	3	r	1013·3	+3	57	-9	NW	4	SW	4	*	2	77	52				
	Sanguinaire ...	*	72	NW	4	m	*	*	68	+4	S	3	*	c	2	-	77	61				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1018·0	57	WNW	5	o	1016·6	-3	57	+5	S	4	-	o	2	20	63	50				
	Madrid (8 a.m.)	1013·2	59	WNW	3	bc	1020·3	+2	50	-4	WNW	2	-	b	*	1	61	43				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1028·0	*	WSW	4	o	1028·4	0	63	0	SW	4	*	b	1	-	72	63				
	Madeira (Funchal)	1024·0	66	N	4	c	1026·3	+1	59	-2	N	3	*	b	3	-	68	59				
	Gibraltar	1018·9	63	W	4	b	1021·3	*	57	-2	NW	5	*	b	3	-	71	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1016·0	+1	70	+4	SE	1	-	b	0	-	72	61				
	Limassol (6 a.m.)	*	*	*	*	*	1011·3	0	75	+2	W	1	-	bc	1	-	82	54				
	Alexandria (6 a.m.)	1015·1	68	N	3	b	1014·6	+1	70	-2	N	3	-	b	2	-	75	64				
	Cairo (Helwan) (6 a.m.)	1012·3	73	NE	3	b	1013·2	+1	68	0	N	2	NW	b	0	-	86	61				
	YESTERDAY'S REPORTS	..24th.., 8 P.M. G.M.T.					..25th.., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice												*									
	Turin	1013·9	64	-	0	c	1014·4	0	63	0	-	0	*	o	*	6	68	61				
	Pesaro	1014·4	70	NE	1	b	1014·9	0	68	-2	-	0	*	b	1	-	77	59				
	Leghorn	1015·0	70	-	0	b	1015·0	0	59	-9	-	0	*	b	1	-	75	59				
	Rome	1016·6	68	-	0	b	1016·2	0	64	-2	-	0	*	b	*	r	79	54				
	Viesti	1016·1	70	S	1	m	1015·6	0	70	0	-	0	*	b	1	-	73	63				
	Brindisi	1017·6	68	NE	2	b	1017·2	0	70	+4	SSE	1	*	b	3	-	72	61				
	Cagliari	1013·5	59	SE	3	b	1015·0	0	61	+7	SE	4	*	c	3	-	77	52				
	Palermo	1016·2	64	-	0	b	1015·7	0	70	0	-	0	*	bc	1	-	73	61				
	Tripoli	1013·4	64	E	1	b	?1015·6	0	70	+7	E	1	*	b	3	5	72	61				
	Algiers												*									

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ..6h.40m..

Wind at	11000 ft	SSW	23 m.p.h.
..	10000	SSW	21 ..
..	9000	SSW	18 ..
..	8000	SWbyS	16 ..
..	7000	SW	13 ..
..	6000	SW	12 ..
..	5000	WSW	10 ..
..	4000	W	9 ..
..	3000	W	12 ..
..	2000	W	11 ..
..	1000	W	7 ..
..	Surface	W	3 ..

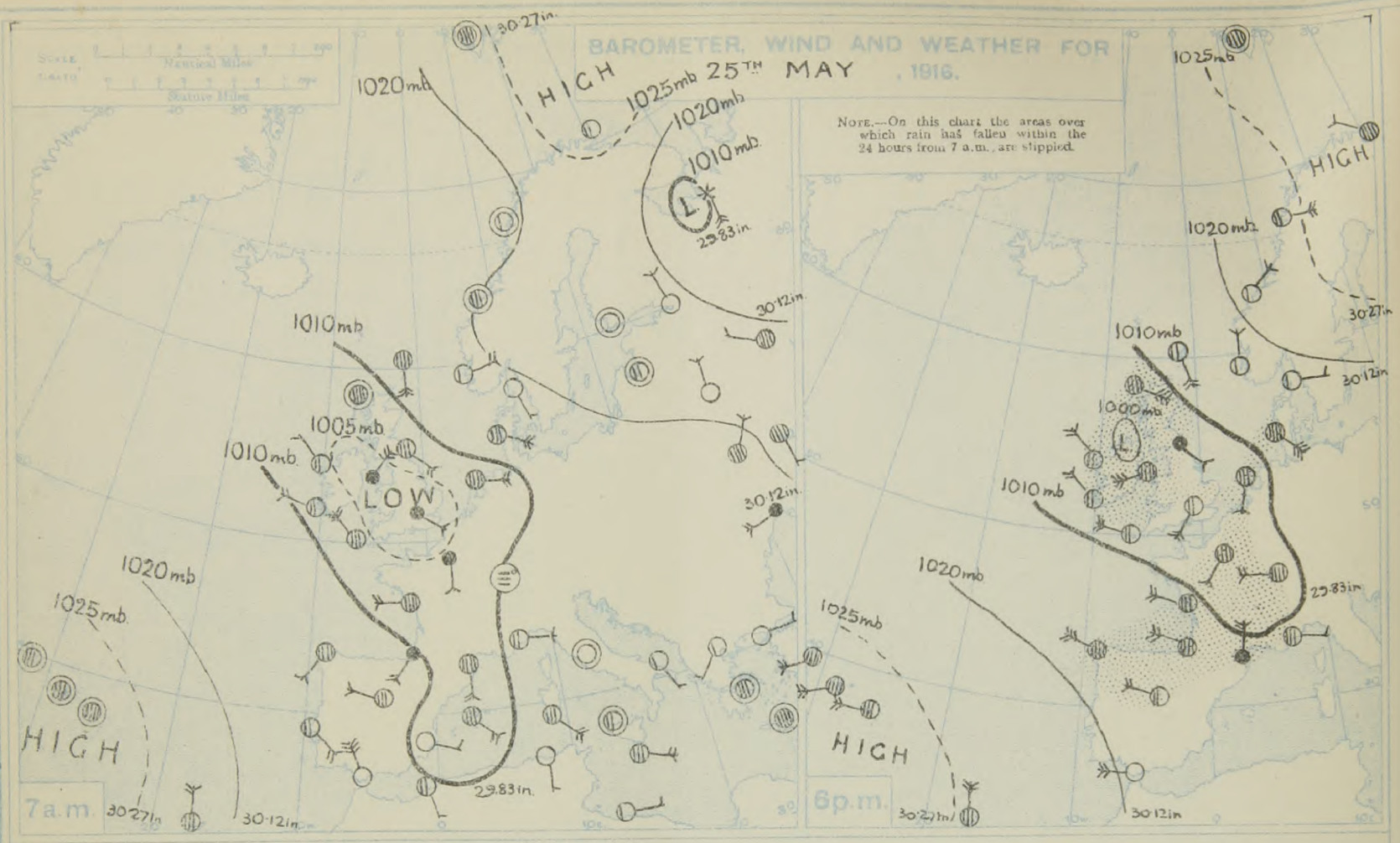
Aberdeen: 7h.

Wind at	4000 ft	SSE	25 m.p.h.
..	3000	SSE	15 ..
..	2000	SW	28 ..
..	1000	SW	30 ..
..	500	SW	30 ..
..	Surface	SW	12 ..

Falmouth: 7h. 30m.

Wind at	2000 ft	WSW	21 m.p.h.
..	1000	WSW	20 ..

* 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} South-Easterly and Southerly winds, fresh to moderate; changeable, some showers; cool.

1, 2 {a b} Southerly and South-Westerly winds, light or moderate; fair generally; moderate temperature.

3 North-Westerly to Westerly or South-Westerly winds, light or moderate; fair generally; moderate temperature.

4 {a b} Light variable or Southerly winds; fair; warmer.

5 Wind mainly between West and South, light; fair; moderate warmth.

6 {a b} Southerly winds, moderate or fresh; some showers, fair intervals; cool.

7 {a b}, 8 {a b}, 9 {a b}, 10 {a b} Wind light or moderate from some Southerly point; fair generally; moderate temperature.

Western Channel and Bay 11 Southerly and South-Westerly winds, light or moderate; sea moderate or slight; fair.

FURTHER OUTLOOK.

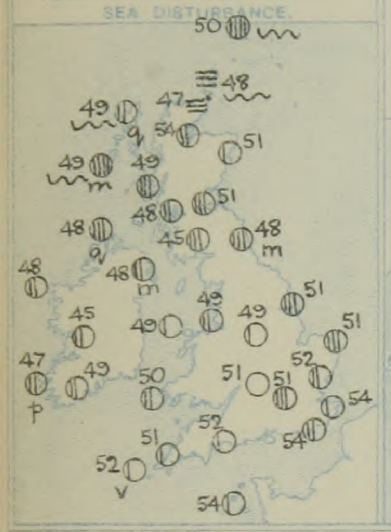
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 26TH MAY, 1916.

GENERAL INFERENCE.

There are no indications of the immediate approach of any new depression, and generally fair weather is probable during the ensuing 24 hours.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

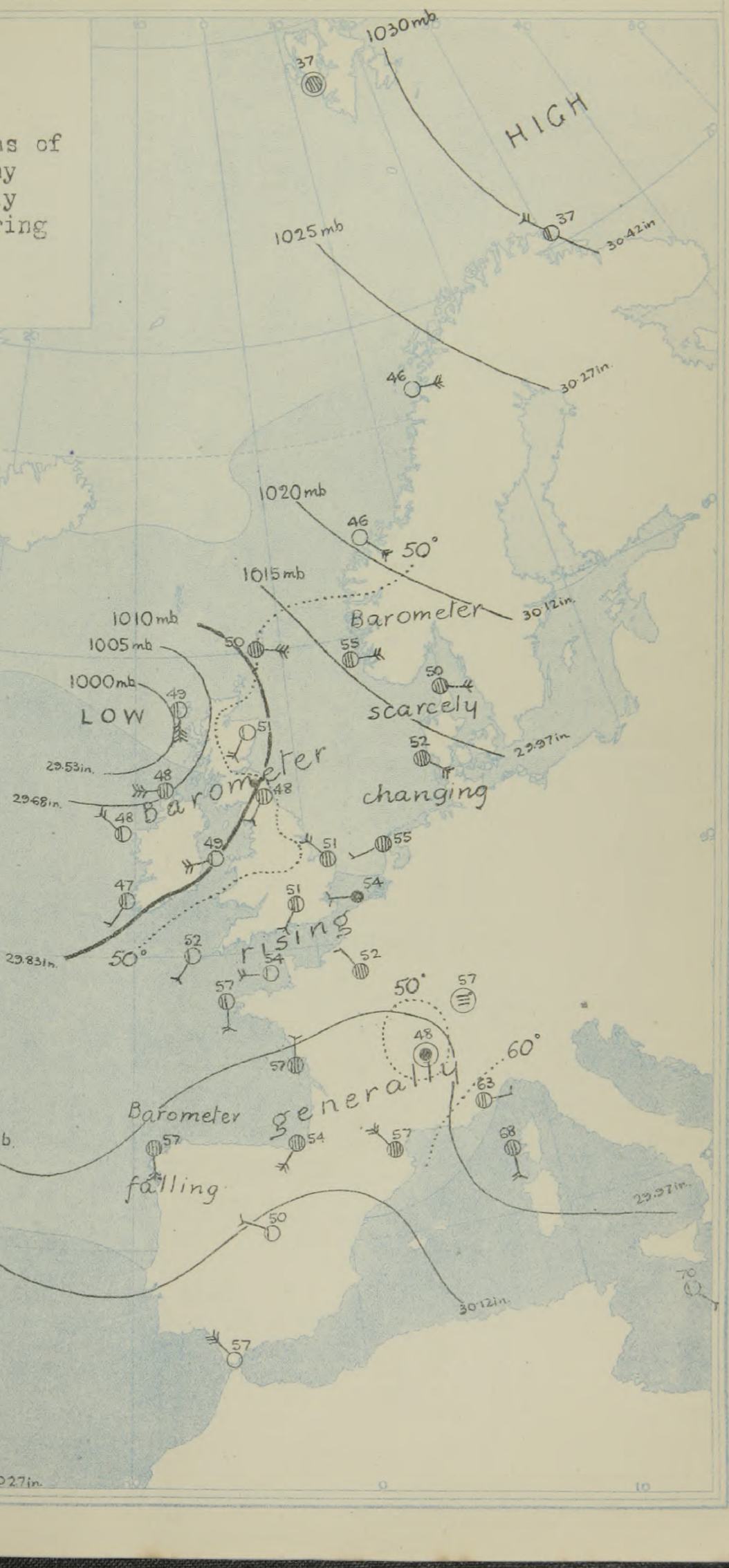
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈



Issue No. 19,909

DAILY WEATHER REPORT.

Friday, 26th May, 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 8 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	1009.7	32	N	4	5	1010.7	+5	32	-4	S	4	*	S	*	-	*	28
Gorki	1017.0	45	N	1	b	?	+4	46	+3	N	2	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	.	1022.6	?	43	+2	SW	2	*	bc	*	-	*	*
Hango	1022.0	41	-	0	bc	1023.4	+3	41	0.	-	0	*	b	*	-	*	32
Riga	1020.3	46	NNE	1	c	1022.9	+2	54	+2	-	0	*	bc	*	-	*	41
Petrograd	1017.9	43	NNE	2	0	1023.1	+4	43	+2	NNW	2	-	b	*	-	48	36
Moscow	1015.3	50	WNW	2	c	1020.3	+3	48	-6	WNW	2	*	b	*	-	*	41
Kiev	1018.1	50	ESE	2	0	1018.1	0	50	+5	NE	2	*	0	*	-	*	45
Kharkov	1019.4	50	WSW	1	0	1020.6	+1	52	+4	S	1	*	0	*	-	*	46
Kishinev	1016.6	57	-	0	0	1018.3	?	57	+5	NW	1	*	0	*	8	*	34
Elisabetgrad ...	1017.3	55	SE	2	c	1016.6	+1	54	+2	SSE	1	*	0	*	-	*	48
Nicolaiev	1017.3	63	NNW	3	r	1017.3	*	59	+9	SW	3	*	0	*	1	*	45
Odessa	1016.7	61	SSW	3	0	1017.9	+3	57	+2	WSW	3	*	T	*	11	*	37
Tarkhankout ...	1016.1	59	S	2	b	1018.7	?	59	+7	SSE	2	*	0	*	-	*	57
Soukhoum	1021.2	67	NE	2	0	1021.5	0	50	-5	-	0	*	bc	*	3	*	52

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h G.M.T.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	59	48	o	o	1·3
	Banff	-	55	48	bc.c	cq	1·5
	St. Andrews						
	Carnoustie	0·1	50	46	o	od	0·0
England, N.E.	Harrogate	3	58	46	o	r.od.	0·0
	Skegness	-	65	52	ofe	fe.bc.	2·8
England, N.W.	Morecambe	8	60	51	.	.	0·0
	Blackpool						
	Southport	1	59	49	or	r,or.c.	1·2
Midlands.	Buxton	2	58	46	bc.r	bcr	1·2
	Leamington Spa	11	64	51	or	bc	4·0
	Malvern	16	60	52	m.c	c.bc.	3·0
	Ross-on-Wye	25	63	63	fr.o	bc.b.bc	4·2
Wales.	Rhyl	33	58	43	r	r.bc.c.	1·4
	Colwyn Bay	28	60	51	r	bc.c	1·7
	Llandudno	25	56	49	r	r.c.	0·2
	Aberystwyth	38	51	49	r.o	o.or.	0·0
	Tenby	5	53	49	-	-	0·0
England, E.	Lowestoft	-	60	52	of	ofp.bc.	2·8
	Felixstowe	0·1	64	53	omp	bcw.	4·5
	Walton-on-Naze	-	62	53	o.c. bc	bc.b	5·0
	Southend-on-Sea	-	66	53	o.c	c.bc.	2·1
England, S.E.	Margate	0·2	65	53	or.c	b.bc	3·8
	Ramsgate	0·3	65	53	dag	c	4·4
	Hastings	2	60	53	b.or.c.	b.bc.	4·3
	Eastbourne	-	59	53	-	-	6·7
	Seaford	2	62	53	r.c	bc	5·3
	Brighton						
	Worthing	3	60	54	o.bc	b.	5·8
	Littlehampton	6	64	51	o.b	b.	6·2
	Bognor						
	Bournemouth	5	60	52	o.b	b.	8·2
England, S.W.	Weymouth	7	59	52	o.bc.	bc.	7·5
	Torquay	5	59	50	c.bc	bc.	5·6
	Paignton						
	Penzance	6	57	49	or.bc	bc.	6·5
	Newquay	5	54	48	op	bc	4·3
	Bude	2	60	49	op.r.cr	r.c.bc.	2·1
	Ilfracombe	3	63	48	cp.c	c.bc.b	1·5
	Weston-super-Mare ...	29	57	50	r.c.bc.	b.bc.b	3·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h G.M.T. Yesterday.	Humidity. 9h G.M.T. 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 6h G.M.T. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	59	59	6·5	66	47	37	0·3	o od	c.bc	b.bc
City (Eastcheap, Fish Street Hill)	*	*	6·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	61	69	6·7	65	45	39	-	p.bc	bc	bc
Camden Sq. (Publ. Rainfall)	50	56	7·0	69	45	42	0·3	or.bc	bc.b	*
Hampstead (Reservoir) ...	*	70	6·6	63	42	40	1	-	-	bc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	7·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	52	55	6·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1532 Joules	26·4 Milliwatts.	90 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 14h G.M.T.	8	54	49	48	r	r	u	*
Darwen to 21h G.M.T.								
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 20h ,,	*							*
Teignmouth to 21h G.M.T.								
Plymouth ,,								
S. Kensington (Museum Grounds to 9h G.M.T.)	2	70	54	55	bc bm	or.c.	c.bc	*

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

26th & 27th May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 45 4. 44	11. 50 11. 50	19. 56 19. 57
Greenwich	3. 57 3. 56	11. 57 11. 57	19. 57 19. 58
Wick	3. 28 3. 26	12. 9 12. 9	20. 51 20. 53
Valencia	4. 26 4. 25	12. 35 12. 38	20. 49 20. 51

NOTES ON YESTERDAY'S WEATHER.

Rain fell in most places; 28 mm. at Donaghadee, and a thunderstorm occurred at Ross-on-Wye. Bright sunshine duration was moderate or slight, and temperature remained below 65° at nearly all 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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Printed at the Meteorological Office, South Kensington, London, S.W. By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 148. Saturday, 27th May.

	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp °F	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
								‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1012.2	48	SE	4	or	1012.5	-1	48	-2	-	0	-	om	0	21	50	46	or	or	orm	*
	Deerness (Orkney)	1010.5	50	ESE	3	o	1011.8	*	51	+3	ESE	2	SE	b	0	2	52	43	f.o.c	c.o	oc.bcb	0.4
	Stornoway ...	1009.0	54	SSW	6	bcq	1011.7	+1	50	+1	-	0	-	bcz	0	-	55	41	bc.cq	c.bcq	b.bcz	6.0
	Castlebay (Barra Isd.)	1009.0	51	S	4	bc	1011.0	+1	48	-1	SE	3	-	opm	3	0.1	52	46	om.op	o.bc	bc.opm	7.7
	Glasgow ...	1011.0	53	SW	2	b	1013.0	+1	48	0	E	1	S	b	*	-	59	40	bc	bc.b	bz	11.4
	Eskdalemuir ...	1011.6	53	SSW	4	bv	1013.5	0	47	+2	-	0	-	b	*	-	57	30	c	bc.bcv	bv	11.2
	Malin Head ...	1009.5	50	ENE	2	cmp	1010.3	0	47	-1	SSW	3	SW	cp	3	8	54	45	bcp	cmp	cq.p	6.7
	Blacksod Point	1008.4	52	W	3	bcv	1009.8	+1	48	0	SW	2	W	bc	2	4	54	45	bcm	bcv	bcp.cp	*
	Valencia ...	1010.1	54	W	3	b	1011.0	+1	49	+2	NE	1	W	b	3	-	56	43	bc	bc	bc.b	12.4
	Roche's Point	1012.2	51	SE	2	b	1011.5	*	44	-5	NW	2	-	f	2	1	56	42	c.op	op c.b	bc.bf	*
	Birr Castle ...	1009.9	50	SW	1	c	1011.5	*	48	+3	S	1	S	c	*	5	58	42	c	opr	or.o	9.4
	Donaghadee ...	1010.0	53	SW	4	bcm	1012.4	+2	48	0	SSW	3	S	cm	2	0.4	57	45	bcm	bcm	bcmp	*
	Liverpool (Bidston)	1012.2	54	SSE	1	o	1012.2	0	51	+2	ESE	1	-	b	1	4	55	45	b.bcp	c	op	8.5
	Holyhead ...	1011.7	53	SW	4	bc	1011.4	0	50	+1	E	2	-	c	1	Trace	56	42	b.bc.b	b bc b	bvw.bc	15.0
	Pembroke (St. Ann's)	1012.4	52	SSW	2	b	1010.5	0	50	0	SE	4	SE	A	3	-	56	47	bc	bc	0.c	14.1
	Scilly (St. Mary's)	1010.4	55	SE	3	c	1010.5	0	51	-1	NW	3	NW	c	4	9	57	49	bc.cp	cp	cq.p.cq	7.7
	Falmouth ...	1011.0	51	SSE	2	r	1009.9	+1	52	+1	SE	1	-	c	*	1	59	47	bc.c	c.og o	o,c.od	7.7
	Jersey (St. Aubin)	1012.6	59	ESE	3	bc	1011.3	*	54	0	S	3	-	o	3	Trace	62	52	b	b.bc	op.o	12.5
	Portland Bill ...	1013.6	53	SSW	1	b	1011.3	-1	54	+2	ESE	3	SE	c	2	-	58	50	bc.b	bc.b	bc.c	*
	Dungeness ...	1013.3	55	WSW	4	bc	1012.3	0	51	-3	NW	2	NW	bc	2	-	59	38	bc	bc	bc	*
	Dover	1013.2	55	SW	4	b	1011.9	0	55	+1	-	0	-	bz	2	-	61	40	b.bc	bc.c.b	bz	10.1
	Wick	1009.9	49	SE	3	o	1011.4	+1	50	+3	-	0	-	b	2	-	52	42	omq	om	om.c.bm	*
	Nairn	1009.2	58	WSW	1	bc	1012.1	*	49	-5	-	0	-	b	0	0.3	62	37	q.c.bc	c.bcv	w.g.bc	8.0
	Aberdeen ...	1010.9	53	S	4	b	1013.3	+1	51	0	-	0	-	bm	2	-	58	39	bc.c	c.bc.b	bm	6.7
	Leith	1010.2	60	E	1	bc	1012.5	+1	48	-3	W	1	-	b	2	-	62	41	c.bc	b	bc.b	*
	Tynemouth ...	1012.4	49	SSE	1	om	1013.1	0	50	+2	NW	1	-	bm	3	1	54	42	bcm	cmp	bc	*
	Spurn Head ...	1012.9	54	ESE	4	cm	1012.7	-1	48	-3	NNE	2	-	fe	3	0.1	60	48	bc	bcm	bcf	8.6
	Yarmouth ...	1013.4	54	SE	3	bc	1012.3	0	51	0	N	1	-	b cm	1	-	60	45	c.bc	bc	bc.b	6.7
	Clacton-on-Sea	1012.7	57	SSE	3	c	1012.0	0	54	+2	NW	1	-	c	1	-	63	44	bcv	bcv.c	cw	8.4
	Nottingham ...	1011.9	59	NW	3	b	1012.9	*	47	-2	SE	1	-	bmw	*	-	65	36	bc.c	c.b	b	11.7
	Benson (Oxon.) ...	1011.8	60	SSW	1	b	1012.4	0	50	-1	-	0	-	b	*	-	63	33	bc	bc	b	*
	Sth Farnborough	1012.0	62	SW	3	b	1012.0	0	51	+1	-	0	S	bz	*	-	66	33	b.bc	bc.b	b	14.4
	London (Kew Obsy.)	1012.6	54	SSW	3	bc	1012.7	0	48	-3	SSW	1	S	bm	*	-	66	41	c.bc.c	c.bc	bo.b bm	11.0
NORTHERN EUROPE.	Spitsbergen ...	1023.8	34	S	7	o	1023.0	0	36	-1	N	2	*	o	*	*	37	34				
	Vardö	1020.3	36	E	1	b	1028.7	0	39	+2	NW	1	-	o	2	*	39	32				
	Bodö	1025.1	48	E	4	b	1025.0	0	50	+4	E	2	-	b	2	-	52	43				
	Christiansund	1017.3	48	NE	3	b	1015.1	0	52	+6	E	2	-	b	3	-	54	45				
	Skudesnaes ..	1014.0	54	-	0	bc	1013.9	+2	52	-3	-	0	-	o	2	5	59	52				
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)	1016.3	52	S	2	r	1015.7	0	52	+2	E	2	-	c	2	2	59	50				
	Blaavands Huk	1011.4	64	SE	4	o	1010.3	-2	52	0	E	2	-	o	1	-	66	48				
FRANCE, &c.	The Helder ...	1012.3	55	NW	2	c	1010.4	-2	52	-3	NNW	3	-	r	2	8	59	50				
	C. Gris Nez ...	1013.7	54	SW	4	c	1012.2	0	54	+1	SW	4	*	c	0	-	57	48				
	La Hève	1013.1	57	NNW	2	b	1014.0	*	50	-1	ESE	3	*	m	2	-	72	48				
	Brest (St. Mathieu)	1011.3	54	S	3	bc	1011.8	+1	54	+3	WNW	4	*	c	3	-	59	52				
	Rochefort (Ile d'Aix)	1015.1	57	SSW	4	c	1013.0	0	58	+1	WNW	3	*	c	*	5	64	52				
	Biarritz	1015.5	59	ENE	3	c	1015.4	0	55	+1	SSW	3	*	o	4	4	64	52				
	Paris	1013.5	59	NNE	1	o	1012.4	0	50	-2	ENE	1	S	b	*	-	63	45				
	Belfort	1013.7	50	W	2	r	1011.0	*	50	-7	W	2	*	o	*	11	66	50				
	Lyons	1014.6	54	-	0	o	1012.2	*	52	+4	NNW	3	*	o	*	-	57	48				
	Nice	1008.2	57	SW	2	c	1006.7	0	57	-6	-	0	*	c	3	63	68	48				
	Perpignan ..	1013.2	59	WNW	4	c	1013.0	0	59	+2	NW	4	NW	c	*	-	68	50				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1016.7	59	W	3	o	1014.0	-4	59	+2	SSW	4	-	o	2	8	61	50				
	Madrid (8 a.m.)	1015.9	63	SW	3	bc	1017.5	+1	55	+5	-	0	-	o	*	?	66	50				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1028.8	*	SW	5	b	1027.3	0	64	+1	WSW	4	*	o	2	-	72	64				
	Madeira (Funchal)	1025.9	64	N	3	bc	1025.6	0	59	0	N	3	-	b	3	-	66	59				
	Gibraltar	1022.0	61	NW	5	b	1020.6	*	62	+5	NW	4	*	b	3	-	72	56				
	Malta (8 a.m.) ...	*	*	*	*	*	1015.8	0	64	-6	WSW	1	-	r	1	-	75	63				
	Limassol (6 a.m.)	*	*	*	*	*	1009.3	0	77	+2	-	0	-	b	2	-	84	52				
	Alexandria (6 a.m.)	1013.7	70	NW	3	b	1013.3	0	72	0	-	0	-	b	0	-	77	66				
	Cairo (Helwan) (6 a.m.	1011.7	77	N	2	b	1013.5	+2	68	0	-	0	-	b	0	-	88	59				
YESTERDAY'S REPORTS		....25th...., 8 P.M. G.M.T.					....26th...., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1013.6	70	SSE	1	b	1013.3	0	68	-	NE	1	*	c	-	-	75	61				
	Turin	1013.4	63	-	0	c	1012.9	0	59	-4	N	3	*	o	*	-	73	57				
	Pesaro	1013.9	68	-	0	b	1013.4	0	70	+2	E	1	*	b	2	-	77	57				
	Leghorn	1014.6	70	-	0	b	1013.4	0	66	+7	-	0	*	c	4	-	75	59				
	Rome	1015.3	68	-	0	b	1014.6	0	68	+4	-	0	*	c	*	-	79	57				
	Viesti	1015.0	68	SSE	2	b	1013.7	0	66	-4	SSE	1	*	b	3	5	73	57				
	Brindisi	1017.2	63	SE	1	b	1016.1	0	64	-6	-	0	*	m	0	-	75	59				
	Cagliari	1012.2	59	SE	4	b	1015.0	0	66	+5	SW	3	*	o	4	1	75	55				
	Palermo												*									
	Tripoli	1014.8	66	-	0	b	1014.6	0	72	+2	-	0	*	b	2	-	73	63				
	Algiers	1012.4	70	WNW	5	c	1015.7	0	64	-	WSW	4	*	bc	3	-	82	64				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 6h 25m

Wind at 10000 ft. SSE 6 mph
" " 9000 SSE 8 "
" " 8000 SE by S 7 "
" " 7000 SE by E 8 "
" " 6000 NE by N 1 "
" " 5000 WSW 2 "
" " 4000 W by S 2 "
" " 3000 E by S 4 "
" " 2000 ESE 8 "
" " 1000 ESE 3 "
" " Surface SE 1 "

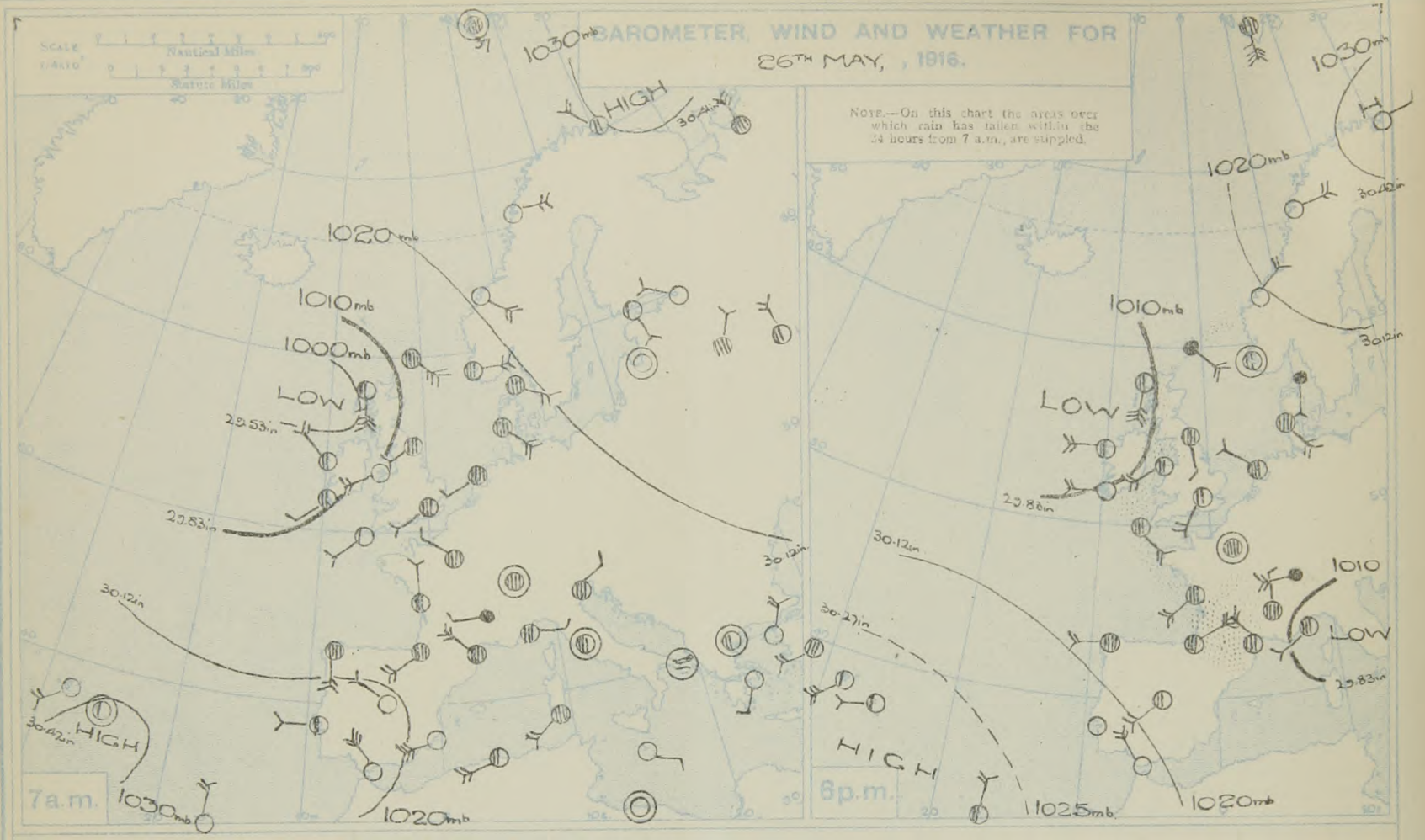
Aberdeen: 7h.
Wind at 5000 ft. S by W 9 mph
" " 4000 SSW 11 "
" " 3000 SW 13 "
" " 2000 S by W 6 "
" " 1000 S by W 5 "
" " 500 SSE 2 "
" " Surface Calm "

NOTE:

Nice: 26th Thunderstorm 21h.

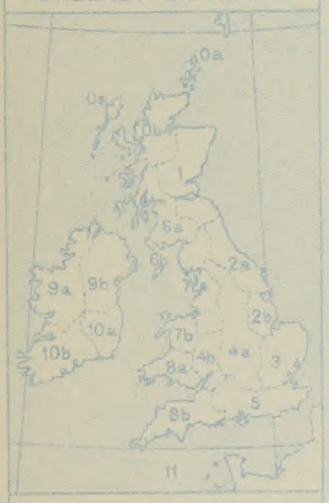
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 26TH MAY, , 1916.



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 .

0 {a, b}, 1 } Light variable winds; fair generally; some mist on coast; warmer.

2 {a, b}, 3, 4 {a, b}, 5 } Wind between North and West or variable, light to moderate; fair generally to-day, less so to-morrow; moderate warmth.

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

7 {a, b} } Light or moderate winds between South East and North East, fair to showery, some mist on coast; moderate temperature.

8 {a, b} } Wind between North and West or variable, light or moderate, some showers; moderate temperature.

9 {a, b}, 10 {a, b} } Wind light or moderate, direction variable, fair generally, some showers, mist or fog locally on coast. moderate temperature.

11 } North Westerly or Westerly winds, light or moderate; sea moderate to smooth; mostly fair, some mist or fog.

FURTHER OUTLOOK.

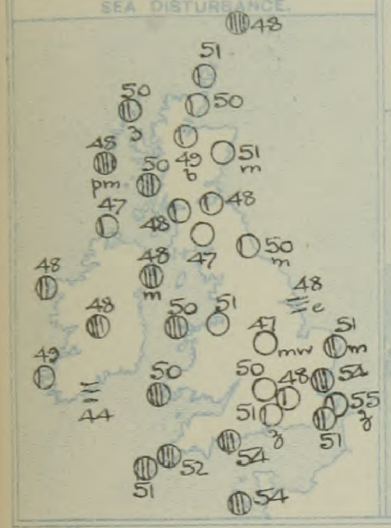
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 27TH MAY, 1916.

GENERAL INFERENCE.

The shallow depression in the South-West appears likely to have little effect on the weather at present but that over Holland may extend Westward and cause less fine conditions in the East and South-East of this country.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

1025mb
1020mb
1015mb
1010mb
1010mb
1015mb
1020mb
1015mb
1010mb
1015mb
40°
50°
50°
50°
HIGH
LOW
LOW
HIGH
L
30.27in
30.12in
29.97in
30.12in
29.83in
29.97in
30.12in
30.27in
Barometer falling
Barometer rising
Barometer falling
Barometer rising
Scarcely changed
Scarcely changed

Scale 1:8·10°
Nautical Miles
Statute Miles

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

Issue No. 1991 0

DAILY WEATHER REPORT.

Saturday, 27th May, 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	1021·3	28	NNW	4	0	1022·6	?	28		N	5	*	0	*	-	*	28
Gorki	1023·4	43	NNE	1	b	1022·0	+2	43		NE	2	*		*	-	*	*
Veliki Luki ...	-	-	-	-	-	-	-	-	-	-	-	*	0	*	-	*	*
Hangö	1025·7	43	-	0	b	1027·1	0	43		SSE	2	*	b	0	-	*	32
Riga	1023·7	42	NW	2	bc	1023·7	0	54		-	0	*	-	1	-	*	39
Petrograd	1021·9	45	NW	2	bc	1026·0	0	46		NNW	2	E	b	*	-	52	37
Moscow	1021·8	46	?	2	0	1022·4	+1	41		N	3	*	bc	*	-	*	34
Kiev												*		*		*	
Kharkov												*		*		*	
Kishinev												*		*		*	
Elisabetgrad ...												*		*		*	
Nicolaiev							*					*				*	
Odessa												*				*	
Tarkhankout ...												*				*	
Soukhoum	1019·3	59	-	0	bc	1017·2	?	63		-	0	*	b	*	-	*	?

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h. G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	57	45	c	bc.	8·0
	Banff	3	61	48	bc	bc.	4·3
	St. Andrews	6	62	46	*	*	8·2
	Cemacstie.	6	54	47	rg. c.	c*.	6·7
Eng. N.E.	Harrogate	3	59	41	b. bc.	bc. b	7·3
	Skegness	-	60	46	bc. c	bc. o.	9·5
Eng. N.W.	Morecambe	-	59	43			11·3
	Blackpool						
	Southport	-	59	41	b. b c. c	c. bc.	6·8
Midlands.	Buxton						
	Leamington Spa	-	62	41	bc	bc	12·0
	Malvern	-	61	45	bc	bc. c.	10·5
	Ross-on-Wye	-	64	42	bc. b	b	11·2
Wales.	Rhyl	0·3	57	41	bc. o. c.	bcp. bc.	6·6
	Colwyn Bay	2	58	45	bcp	bc.	8·5
	Llandudno	8	55	42	p	p.	5·5
	Aberystwyth	8	54	46	r. o. c	c. bc.	7·0
	Tenby	-	60	45			11·9

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	-	59	50	c. bc. c.	c. o. c.	5·5
	Felixstowe	-	64	48	bc	bc.	7·7
	Walton-on-Naze	-	61	48	b. bc	b. bc	7·5
	Southend-on-Sea	-	66	46	bc. c	bc. c-y.	8·0
England. S.E.	Margate	-	60	50	bc. c. b.	c.	6·7
	Ramsgate	-	61	46	bc	bc. o.	7·8
	Hastings	-	60	45	bc. b	b	11·6
	Eastbourne	-	59	46	b g	b.	11·6
	Seaford	-	59	43	b	b	11·7
	Brighton						
	Worthing	-	60	43	bc	b.	11·6
	Littlehampton	-	58	42	bc. b	b.	12·4
	Bognor						
	Bournemouth	-	61	40	b	b	12·7
England. S.W.	Weymouth	-	60	42	b	b	13·0
	Torquay	-	68	42	bc. b	bc.	11·6
	Paignton						
	Penzance	1	59	43	bc	bc.	6·0
	Newquay	-	58	41	b	b. bc c.	9·3
	Bude	2	60	41	bcp. bc	b.	9·4
	Ilfracombe	1	57	44	bcp. bc	bc. c.	9·8
	Weston-super-Mare ...	0·3	61	42	b	b. bcp. b.	10·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h. G.M.T. Yesterday. %	Humidity. 9h. G.M.T. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9h. G.M.T. To-day.						
Greenwich (Royal Obsy.) ...	46	62	13·3	68	39	41	-	b	b. bc.	b bc.
City (Bunhill Row)	*	*	9·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	50	65	11·6	65	41	35	-	b.	bc. bc	o m. z.
Camden Sq. (Brit. Rainfall)	46	60	9·6	69	43	41	-	b. bc	bc	*
Hampstead (Reservoir) ...	*	64	11·8	63	43	36	-	b.	bc	b m.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	11·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	45	59	10·8							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2083 Joules	36·1 Milliwatts.	90 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 14h. G.M.T	44	57	45	40	c	bc	cp.	*
Darwen to 21h. "								
Manchester "				*				
Birmingham "					*			
Oxford to 20h "	*							*
Teignmouth to 21h "								
Plymouth "								
S. Kensington (Museum Grounds to 18h. G.M.T	-	66	46	44	bc.	bcc.	bc. b	*

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

27th & 28th May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 44 / 3. 42	11. 50 / 11. 50	19.56 / 19.57
Greenwich	3. 56 / 3. 54	11. 57 / 11. 57	19.58 / 20. 0.
Wick	3. 26 / 3. 24	12. 9 / 12. 9	20. 53 / 20. 55
Valencia	4. 35 / 4. 34	12. 28 / 12. 28	20. 41 / 20. 42

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 60° in many places. Rain fell in the west and north of these Islands, but in most localities there was much 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.

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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. 149.

Sunday, 28th May,

	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 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·4	49	–	0	f	1013·8	−1	48	0	NE	2	–	fr	2	2	54	46	om	f	fr	*
	Deerness (Orkney)	1011·8	52	ESE	3	c	1011·8	*	50	−1	E	2	SE	c	1	–	58	47	b.bc.c	c	ef.cw	13·4
	Stornoway ...	1011·4	52	ESE	3	c	1011·2	0	51	+1	–	0	–	0	0	–	56	46	bc.c	c	ez·0	6·6
	Castlebay (Barra Isd.)	1011·8	51	SE	3	c	1011·8	0	49	+1	–	0	S	bc	1	0·1	52	47	omp.bc	c.bc.	c.o.bc	10·2
	Glasgow ...	1010·8	56	ENE	1	ct	1011·5	0	50	+2	E	1	S	cm	*	5	62	46	bz.bc.c	c.otp.c	thr.cp	8·5
	Eskdalemuir ...	1010·9	54	ENE	2	bc	1010·9	0	52	+5	–	0	SW	bz	*	3	64	44	bv.bcv	bc.optl	opt.oz	10·3
	Malin Head ...	1010·3	51	E	1	c	1010·9	0	52	+5	NW	2	–	bc	2	3	55	46	cg	cp	bc	2·5
	Blacksod Point	1011·0	53	NW	3	bv	1011·6	0	49	+1	NW	2	NW	bcv	2	0·4	55	45	bcv	bcv	bo.bcv	*
	Valencia ...	1011·7	54	W	3	b	1013·1	+1	50	+1	–	0	NW	b	3	–	55	40	bc.c.bc	bc.b	b.bc.c.b	14·2
	Roche's Point	1011·6	56	SW	2	c	1013·2	*	49	+5	NW	2	–	b	2	1	58	44	f.bc	bcp.c	c.b	*
	Birr Castle ...	1010·0	52	W	1	c	1012·2	*	47	−1	E	1	–	c	*	10	60	40	otp	cp	cp.c	6·6
	Donaghadee ...	1011·0	52	NE	3	cm	1011·7	+3	48	0	WNW	2	–	bcm	1	–	56	45	cm	cm	c.bcmw	*
	Liverpool (Bidston)	1010·5	55	WNW	2	bc	1011·4	0	52	+1	WNW	1	–	b	1	–	65	49	b	bc.o	b	9·4
	Holyhead ...	1010·0	54	N	2	opq	1011·3	+1	51	+1	N	2	–	bc	1	0·4	58	46	c.o.ep	o.c.o	c.o.bc.	4·8
	Pembroke (St. Ann's)	1011·3	55	W	2	bc	1013·0	0	52	+2	–	0	–	b	2	–	56	51	c	bc.	bc	8·0
	Scilly (St. Mary's)	1011·7	55	NW	3	bcv	1013·4	0	52	+1	NW	1	–	bv	3	–	58	47	cv	bcv	bcv.bv	7·5
	Falmouth ...	1010·5	56	SSE	1	cp	1012·4	+1	53	+1	NW	2	–	b	*	1	59	46	bc.c	cp.o.c	c.bv.	2·7
	Jersey (St. Aubin)	1011·1	60	N	2	b	1012·9	*	55	+1	NW	2	–	b	2	–	62	47	o.c.bc.b	b.	bv	12·2
	Portland Bill ...	1011·5	54	SSE	1	b	1012·2	0	53	−1	SW	1	NW	b	2	–	58	50	c.bc	bc.b	bv	*
	Dungeness ...	1011·6	57	SW	1	bc	1011·9	0	55	+4	NNW	1	–	b	1	–	60	42	bc	bc.	bc.b	*
	Dover	1011·4	56	–	0	bc	1011·9	+1	52	−3	–	0	–	m	2	–	62	40	z.b.bc	bc.	bczw	9·7
	Wick	1011·5	51	–	0	bc	1012·1	0	49	−1	SSW	2	–	bc	3	–	65	46	bcm	bcm	bcm	*
	Nairn	1011·1	55	–	0	otl	1011·0	*	49	0	–	0	–	cw	1	6	63	42	b.bc	bc.ct	thr c	11·3
	Aberdeen ...	1011·8	56	ESE	2	b	1011·8	0	45	−6	W	1	SE	bm	2	–	63	43	bm.b	b.	bmw	14·1
	Leith	1011·3	58	E	1	0	1011·4	0	50	+2	E	1	SE	c	2	1	62	47	b	bc.cp.o	o.cp.c	*
	Tynemouth ...	1012·2	53	ESE	2	bcm	1011·3	0	46	−4	NNW	1	–	f	2	–	56	44	bc	bcm.	bcm	*
	Spurn Head ...	1012·7	52	SE	3	0	1011·0	0	52	+4	SE	1	–	bc	2	Trace	56	46	bc	c.o.	o.c	6·0
	Yarmouth ...	1011·5	52	NE	1	bc	1012·2	0	51	0	–	0	–	bc	0	–	58	42	bcm	bc.	bc.bcm	2·6
	Clacton-on-Sea	1011·6	56	E	2	c	1011·8	0	57	+3	W	2	–	bc	2	–	61	50	c.bc.c	c.bcr	c.bc.	6·9
	Nottingham ...	1010·4	61	E	3	b	1011·5	*	49	+2	S	1	–	bm	*	–	69	50	b	b	b.	12·3
	Benson (Oxon.) ...	1009·9	65	SW	1	b	1012·0	0	53	+3	SW	1	–	b	*	–	69	37	b	b.	b	*
	Sth Farnborough	1009·9	65	SW	3	b	1011·8	+1	55	+4	–	0	–	bvw	*	Trace	69	37	b.	b.bc.b	bw	14·4
	London (Kew Obsy.)	1010·0	67	SW	2	bc	1012·5	+1	52	+4	WSW	1	–	b	*	–	68	44	bm.bc.	bc.c.bc.c	bc.c.b	9·2
NORTHERN EUROPE.	Spitsbergen ...	1023·4	34	N	3	0	1021·6	0	32	−4	–	0	*	0	*	*	39	30	UPPER AIR. Falmouth. Pilot balloon Ascent at 8 a.m. today			
	Vardö	1027·8	36	NW	3	0	1026·9	0	39	0	NW	H	–	0	H	*	39	30				
	Bodö	1024·3	59	E	1	b	1024·4	0	54	+4	E	H	–	b	2	–	57	45	3,000 feet	N by W	5 miles per hour	
	Christiansund	1014·9	57	NE	1	b	1015·7	0	59	+7	SE	2	–	b	2	–	64	45	2,000 "	NW	11 " "	
	Skudesnaes ..	1012·2	54	N	H	0	1012·8	0	59	+7	E	H	–	b	1	–	55	50	1,000 "	NW by N	10 " "	
	Færder (X'tania Fjord)																		Surface	NW	8 " "	
	The Scaw (Skagen)	1013·2	57	ENE	1	c	1013·5	0	54	+2	E	H	–	b	H	–	64	50				
	Blaavands Huk	1008·0	68	ESE	5	bc	1007·7	0	54	+2	ESE	3	–	0	2	2	73	50				
FRANCE, &c.	The Helder ...	1009·1	52	NW	H	0	1010·0	+1	53	+1	NW	H	S	bc	2	3	54	52				
	C. Gris Nez ...	1011·0	54	SW	2	bc	1011·8	+1	56	+2	ENE	1	*	bc	0	–	63	48				
	La Hève	1011·1	57	WNW	1	c	1012·7	*	55	+5	S	1	*	m	1	–	70	52				
	Brest (St. Mathieu)	1011·7	55	SW	3	b	1014·4	+1	59	+5	NNW	2	*	b	0	–	63	52				
	Rochefort (Ile d'Aix)	1011·4	60	NNW	3	bc	1012·4	0	55	−3	NNE	3	*	b	*	–	64	50				
	Biarritz	1010·4	59	E	2	r	1010·9	0	57	+2	W	5	*	r	H	6	63	55				
	Paris	1010·3	61	E	1	c	1011·0	+1	57	+7	–	0	–	b	*	–	68	50				
	Belfort	1011·5	52	W	H	0	1012·0	*	50	0	–	0	*	m	*	?	55	45				
	Lyons	1011·0	57	–	0	0	1010·9	*	65	+3	N	2	*	b	*	–	66	46				
	Nice	1007·1	59	SW	1	bc	1006·1	0	56	−1	–	0	*	c	0	Trace	68	54				
	Perpignan ...	1010·3	61	SW	1	0	1010·0	0	61	+2	NW	2	W	0	*	–	73	55				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1011·9	63	WSW	6	0	1015·1	0	55	−4	E	2	–	0	1	18	66	50				
	Madrid (8 a.m.)	1015·1	60	W	1	r	1014·0	0	61	+6	–	0	–	bc	*	5	68	54				
	Lisbon (7 a.m.)	1020·2	63	WNW	H	0	1018·0	0	61		WSW	3	–	0	5	–	64	59				
	Azores (Horta, 8 a.m.)	1026·9	*	SW	5	m	1024·6	0	64	0	WSW	H	*	0	2	–	70	64				
	Madeira (Funchal)	1024·2	68	N	3	b	1023·7	0	61	+2	N	2	c	bc	2	–	68	61				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1013·9	0	66	+2	NW	2	W	bc	1	2	68	59				
	Limassol (6 a.m.)	*	*	*	*	*	1013·0	0	77	0	W	2	–	b	2	–	88	57				
	Alexandria (6 a.m.)	1012·6	70	NNW	1	b	1013·1	+2	73	+1	–	0	–	b	0	–	81	66				
	Cairo (Helwan) 6 a.m.	1011·7	81	N	3	b	1012·3	+1	72	+4	NW	1	–	b	0	–	90	64				
	YESTERDAY'S REPORTS	...26th..., 8 P.M. G.M.T.					...27th May..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1009·3	70	–	0	0	1006·0	0	61	−7	NE	1	E	r	2	80	73	52				
	Turin	1009·4	55	–	0	0	1007·7	0	55	−4	–	0	–	r	*	23	73	54				
	Pesaro	1009·6	63	–	0	r	1007·6	0	64	−6	SSW	1	S	0	2	1	78	63				
	Leghorn	1009·9	61	–	0	0	1006·8	0	61	−5	–	0	SE	c	H	–	73	57				
	Rome	1011·4	64	–	0	r	1009·0	0	68	0	SW	1	–	0	*	13	77	61				
	Viesti	1012·3	64	S	2	b	1009·7	0	64	−2	N	1	–	c	3	1	73	61				
	Brindisi	1014·0	64	SE	2	b	?	0	64	0	W	2	SW	0	3	–	68	59				
	Cagliari	1011·6	75	SE	4	c	1012·4	0	59	−7	W	H	W	c	5	19	75	50				
	Palermo	1013·5	68	–	0	0	1013·9	0	63		–	0	SW	0	1	6	77	57				
	Tripoli																					
	Algiers	1017·1	64	WNW	3	b	1016·3	+1	66	+2	WSW	H	–	bc	H	?	75	59				

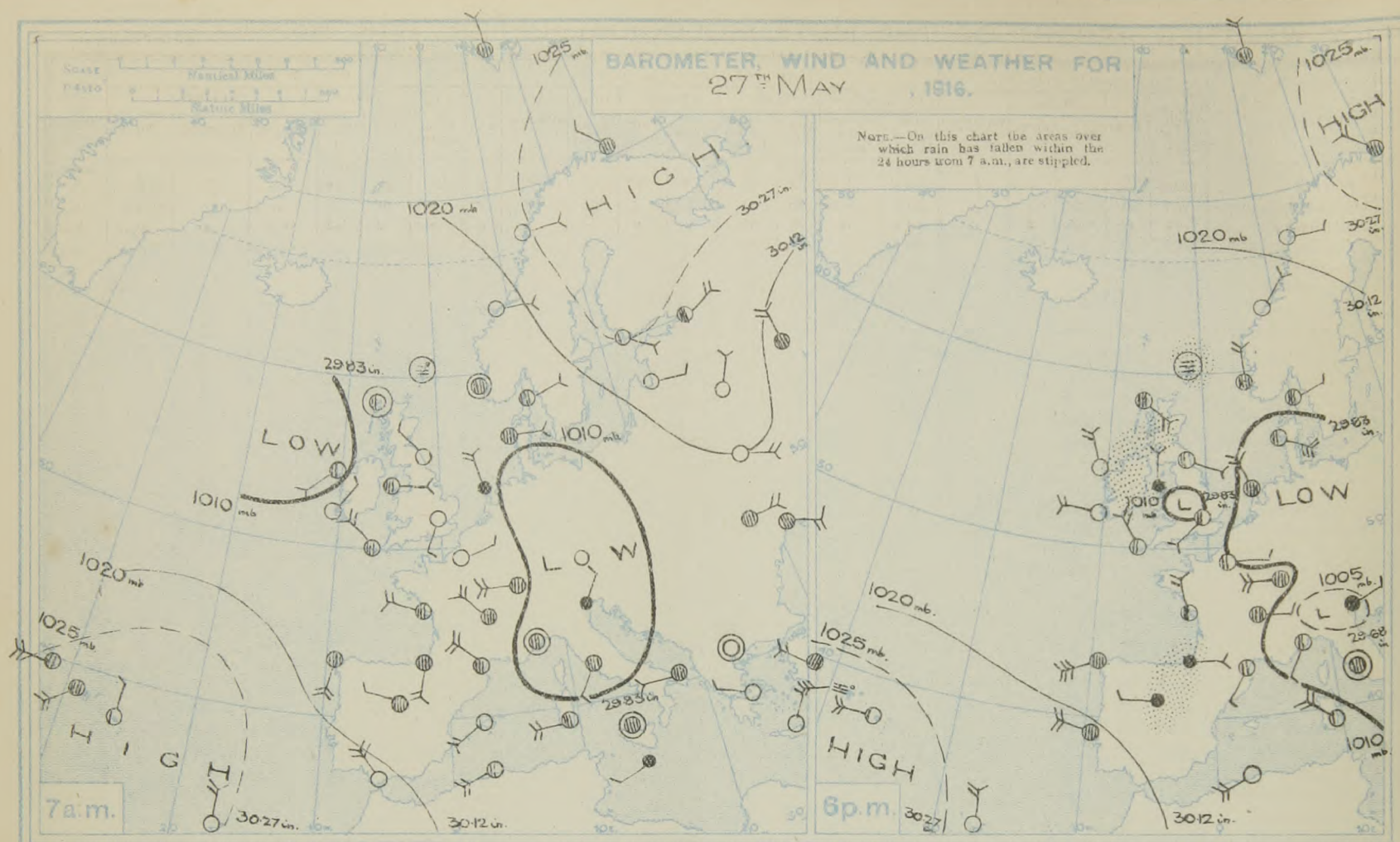
RAINFALL.

Equivalents of Millimetres in Inches.

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

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

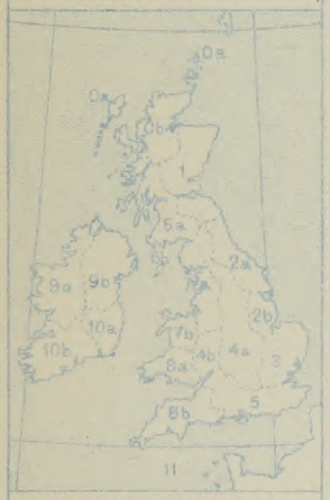
BAROMETER, WIND AND WEATHER FOR 27TH MAY, 1916.



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

FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 {a b} 1 2 {a b} 3 4 {a b} 5 — Light variable winds; fair generally, some mist or fog locally on coast; moderate temperature.

6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} — Wind light, variable or North-Westerly; fair or fine; moderate temperature.

Western Channel and Bay 11 — Wind between North and West, light; sea slight or smooth, fair.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 28TH MAY, 1916.

GENERAL INFERENCE.

There are no definite indications of any change in the general situation.

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 ≈.

1025 mb. 1020 mb. 1015 mb. 1010 mb. 1005 mb.

HIGH

Stationary

Barometer Falling Slowly

LOW

1015 mb. 1020 mb. 1010 mb.

HIGH

30·12 in. 30·27 in. 29·97 in. 29·83 in. 29·68 in. 29·97 in.

Scale 1 : 9·10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for MAY.

Issue No. 19911

DAILY WEATHER REPORT.

Sunday, 28th May 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	26th at 9 A.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.								
Archangel	1024.4	36	NNE	2	0	-	-	-	-	-	-	*	-	-	-	*	-
Gorki	1016.6	39	N	1	b	1018.3	?	46		NNE	2	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Hangö	1024.3	46	-	0	0	1025.1	0	46		ESE	2	*	b	*	-	*	36
Riga	1021.7	54	-	0	b	1022.1	0	57		E	1	*	b	*	-	*	43
Petrograd	1024.0	48	-	0	c	1024.6	0	39		ENE	3	N	c	*	-	54	36
Moscow	1019.9	41	NNE	2	c	1018.7	0	37		N	3	*	0	*	-	*	36
Kiev	1020.7	50	E	2	b	1020.0	0	52		ESE	3	*	b	*	-	*	43
Kharkov	1018.1	50	N	2	0	1019.7	+1	50		E	1	*	b	*	-	*	41
Kishinev	1017.9	61	SE	2	0	1017.9	+1	57		E	3	*	0	*	2	*	54
Elisabetgrad ...	1019.8	59	NNE	3	b	1019.4	0	52		NNW	2	*	0	*	-	*	45
Nicolaiev	1018.3	59	-	0	b	1018.7	*	?		?	?	*	?	?	-	*	50
Odessa	1018.7	63	ESE	1	0	1018.1	+1	59		ESE	3	*	0	*	-	*	59
Tarkhankout ...	1018.9	59	-	0	b	1018.0	?	64		SE	1	*	b	*	-	*	[illegible]
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	-

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h G.M.T.

STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
	mm.§	°F.	°F.			Hr.
Scotland.						
Oban	-	58	45	bc	bc	6.3
Banff	-	62	38	b	b	12.2
St. Andrews						
Carnoustie	-	56	?	b	b	12.5
Eng. N.E.						
Harrogate	-	64	39	b	b.bcc	8.8
Skegness	-	58	43	o.bc	o	8.0
Eng. N.W.						
Morecambe						
Blackpool						
Southport	-	64	40	bc.c.bc	c.o.r.c	12.2
Midlands.						
Buxton						
Leamington Spa	-	67	40	b	b.bc	11.5
Malvern						
Ross-on-Wye	-	65	35	m.b	b.bc	6.6
Wales.						
Rhyl						
Colwyn Bay						
Llandudno	2	59	42	bc.cp	bc.cp	5.3
Aberystwyth	0.3	57	45	r.o.c	c.o	1.3
Tenby	0.3	60	46	-	.	3.4

STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
	mm.§	°F.	°F.			Hr.
England, E.						
Lowestoft	-	61	41	bcm	bc	3.2
Felixstowe	-	61	45	b.bc	bc	5.6
Walton-on-Naze	-	63	46	c.bc	bc	6.0
Southend-on-Sea	-	60	47	b	c	6.0
Margate	-	61	43	bc.b	o.c	6.8
Ramsgate	-	61	42	bc.b	b	11.1
Hastings	-	59	39	b.	b.bc	12.1
Eastbourne						
Seaford						
Brighton	-	59	38	b	b	12.5
Worthing	-	62	39	b	b	12.6
Littlehampton	-	60	41	b	bv.	12.3
Bognor	-	61	41	b	b	13.3
Bournemouth	-	62	44	b	b	12.4
England, S.W.						
Weymouth						
Torquay	1	60	51	c.bc.b	b.bc	8.1
Paignton	-	59	48	bc	bc	10.8
Penzance	1	60	50	c.bc	bc	5.0
Newquay	*					
Bude	1	61	48	bc.p.	bc.b.p	8.3
Ilfracombe						
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
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.) ...	55	55	8.6	64	41	41	-	b.bc	bc.c	bc.b
City (Bunhill Row)	*	*	2.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	66	63		66	47	36	-	bcu	bc.b	bc
Camden Sq. (Brit. Rainfall)	?	59	2.6	66	45	43	-	b.c	c	*
Hampstead (Reservoir) ...	*	63	6.4	63	45	46	-	b.c.p	bcm	bm
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	9.2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	44	58	7.6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1430 Joules	24.8 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 14h. G.M.T.	1	55	47	43	c	cr	c.p.	*
Darwen to 21h. "								
Manchester "	1	67	43	*	bc.c.bc	b.c.o	ocdl.c	7.2
Birmingham "	-	67	45	39	*	bc	c	11.1
Oxford to 20h. G.M.T.	*	68	40	34	bc.b	b.bc	bc.b	*
Teignmouth to 21h.								
Plymouth "	-	62	50	-	c.bg	c.bvg	bcv.	10.8
S. Kensington (Museum Grounds to 8 p.m.)	-	69	44	?	b.bz	bz.cz	cz.c	*

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

28th & 29th May 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 42 / 3. 41	11. 50 / 11. 50	19. 58 / 19. 59
Greenwich	3. 54 / 3. 53	11. 57 / 11. 57	20. 0 / 20. 1
Wick	3. 24 / 3. 22	12. 9 / 12. 9	20. 55 / 20. 57
Valencia	4. 38 / 4. 35	12. 38 / 12. 38	20. 43 / 20. 43

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station, Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
	Benson. 23rd. 7.15h.		Benson. 24th. 7.10h.		Eskdalemuir 24th. 7.25h.		Benson. 26th. 7.14h.		Eskdalemuir. 27th. 7h.		Benson. 27th. 7.8h.			
Heights in Kilometres 5									0	+8	-2	+6		
4									-1	+4	-2	+5		
3	+10	+2	+4	+8	+2	+8	+3	+9	+1	+2	-1	+3		
2	+2	-1	0	+8	+1	+10	+3	+4	+1	+4	-3	+1		
1	+4	-3	-0	+5	+2	+8	+3	+1	+2	+3	-3	+2		
0.5	+2	-2	-2	+7	+1	+3	+4	+1	0	+1	-3	+1		
0	+1	-1	-2	+4	-2	+7	+1	0	0	0	0	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. 150. Monday 29th May 1916.

	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Baron. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours, *
BRITISH ISLANDS.	Lerwick ...	1011·4	48	NE	4	or m.	1014·2	+1	49	+1	-	0	-	om	0	16	49	46	for	or m.	om.	
	Deerness (Orkney)	1010·8	53	NW	2	bc	1015·2	*	51	+1	W	2	W	o	1	-	54	44	c. o	o c. bc.	bc c o	6·0
	Stornoway ...	1012·2	51	SE	3	c	1015·6	+1	49	-2	S	1	-	c	1	5	57	40	oc	cp.	bc. cp	3·4
	Castlebay (Barra Isd.)						1016·3	+1	50	+1	SW	3	SW	bc	3	Trace	54	43			bc	4·5
	Glasgow ...	1011·6	58	W	3	b	1010·4	+3	48	-2	W	2	-	b	*	0·4	61	41	cmp. c	bcv.	bm	9·8
	Eskdalemuir ...	1011·2	59	NW	2	c	1016·2	+3	49	-3	-	0	-	bw	*	-	62	31	bc	bc	b. bw.	12·4
	Malin Head ...	1012·5	53	NW	2	bcv	1016·1	+2	50	-2	SW	3	-	bcv.	2	-	56	45	bc	bcv	bcv	11·5
	Blacksod Point	1014·2	52	NW	3	bcv	1017·3	+2	51	+2	WNW	3	NW	bc	8	-	55	44	bcv	bcv.	bcv. bc	*
	Valencia ...	1014·9	54	NW	3	b	1018·9	+2	52	+2	NW	1	N	bcv	2	-	56	41	bcv	bc. bv	cv.	15·0
	Roche's Point	1014·4	55	W	2	c	1018·2	*	51	+2	NW	2	-	b	2	1	59	48	b. bcc	bc. cp	cp. b.	*
	Birr Castle ...	1013·4	57	W	1	c	1019·0	*	49	+2	N	1	W	c	*	-	61	38	c	c	c	6·9
	Donaghadee ...	1012·8	60	NNW	2	bcpv	1017·1	+2	49	+1	NNW	2	-	cv	2	5	56	45	bcm. p	bcm. p	bcm. cv.	*
	Liverpool (Bidston)	1012·7	52	W	2	c	1016·8	+2	50	-2	WSW	1	-	b	1	-	56	45	c	c	b	6·1
	Holyhead ...	1013·0	55	NNW	3	b	1016·8	+2	47	-4	WSW	3	-	bcf	2	Trace	57	41	bc. c b	b. bc. b	b. b. fg	13·4
	Pembroke (St. Ann's)	1013·4	54	WNW	2	bf	1015·4	+1	51	-1	NE	1	NE	b	1	-	70	51			b	14·5
	Scilly (St. Mary's)	1015·1	56	NW	1	bcv	1017·8	+1	53	+1	-	0	N	b	1	-	59	46	bcv	bcv.	bcv f	14·5
	Falmouth ...	1014·0	56	NW	1	b	1017·0	+2	51	-2	NW	3	-	b	*	-	60	43	bcq	bc. b.	bcw	9·9
	Jersey (St. Aubin)	1013·6	58	NNW	3	b	1015·6	*	56	+1	NE	3	-	o	2	-	62	50	b	b	b. o	14·0
	Portland Bill ...	1012·9	54	WSW	2	b	1015·8	+2	54	+1	-	0	SW	c	2	-	57	49	bc. b	b. bc.	b bcw	*
	Dungeness ...	1012·7	57	SW	3	b	1015·8	+2	58	+3	NW	1	-	b	0	-	62	42	b bc.	bc. b.	b.	*
	Dover						1015·9	+3	59	+7	WNW	1	-	b	2	-	63	43			r. b	13·4
	Wick	1011·3	50	SSW	2	bc	1015·6	+2	49	0	WNW	2	-	c	1	-	52	45	bcm. bc	bc	bc. o. c	*
	Nairn	1011·4	54	-	0	o	1015·9	*	50	+1	-	0	-	bc	1	5	57	45	c. bc t	u t r. bc	g c bc.	5·7
	Aberdeen ...	1011·6	54	ENE	2	bc	1016·2	+2	53	+6	NE	1	-	c	2	-	60	41	bm. b	b bc.	bc. b. bc	11·7
	Leith	1011·3	55	SSW	1	c	1015·8	+2	50	0	W	1	-	b	2	2	60	42	co t r	ogcp. c	cm c b	
	Tynemouth ...	1011·6	54	-	0	omq	1015·7	+2	52	+6	WNW	2	W	bcm	2	3	54	46	bcm	omp.	bcm	*
	Spurn Head ...	1011·9	55	S	3	c t r	1014·5	+1	52	0	WNW	2	-	r	2	0·1	60	49	bc	bc t r	bc f	9·0
	Yarmouth ...	1012·4	59	WNW	2	bc	1015·8	+1	55	+4	N	1	-	b	1	-	60	47	bc	bc t	bcm. bc	9·7
	Clacton-on-Sea	1012·1	63	S	2	bc	1015·9	+3	57	0	W	2	-	b	1	-	64	47	bc	bcv	bcv. bw	13·3
	Nottingham ...	1011·6	60	WNW	4	b	1016·0	*	50	+1	SW	1	-	bm	*	-	68	43	b bc	bc. b	b	10·6
	Benson (Oxon.) ...	1011·9	62	SSW	2	bc	1016·2	+1	52	-1	-	0	S	b	*	-	67	39	b	bc.	b	*
	Sth Farnborough	1012·1	64	WSW	4	b	1015·8	+1	53		WNW	3	SW	bcw	*	Trace	69	39	b. bc	bc. b	b bcw	11·6
	London (Kew Obsy.)	1012·2	68	S	2	bv	1016·5	+2	54	+2	SW	1	W	bm	*	-	69	45	b bcv. cv	cbc. bv	bv. bm	12·2
NORTHERN EUROPE.	Spitsbergen ...	1023·9	34	WNW	2	o	1027·0	+1	34	+2	S	1	*	o	*	*	39	30				
	Vardö	1020·4	39	NW	1	b	1019·5	+3	36	-3	NE	3	-	o	3	*	41	34				
	Bodö	1022·9	55	E	1	b	1021·6	0	55	+1	E	2	-	b	2	-	59	48				
	Christiansund	1014·1	63	ENE	2	b	1016·3	+1	61	+2	-	0	-	c	2	-	66	48				
	Skudesnaes ..	1010·4	61	ESE	4	o	1015·4	+2	52	-7	E	5	-	o	2	-	61	52				
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1013·9	59	SE	1	b	1019·0	+1	50	-4	E	4	-	bc	0	-	64	48				
	Blaavands Huk	1009·5	57	SE	2	r	1013·7	0	50	-4	SE	2	-	o	1	1	59	48				
FRANCE, &c.	The Helder ...	1012·6	54	W	2	bc.	1015·8	+2	50	-3	-	0	S	b	0	-	57	43				
	C. Gris Nez ...												*									
	La Hève							*					*									
	Brest (St. Mathieu)	1014·9	56	NNW	3	bc	1017·0	+2	53	-6	N	2	*	c	1	-	59	48				
	Rochefort (Ile d'Aix)	1012·8	61	WNW	3	bc	1013·2	0	58	+3	NW	3	*	o	*	-	64	55				
	Biarritz	1013·0	59	NNW	3	o	1013·0	0	59	+2	-	0	*	c	2	1	63	55				
	Paris														*							
	Belfort	1013·5	52	-	0	o	1011·9	*	50	0	-	0	*	r	*	1	55	50				
	Lyons	1011·0	61	NNE	1	b	1012·8	*	54	-1	N	2	*	o	*	-	67	50				
	Nice	1007·1	55	-	0	c	1008·0	0	62	+6	-	0	*	b	2	1	66	50				
	Perpignan ..	1009·7	66	NW	4	c	1010·9	0	66	+5	WNW	3	-	o	*	-	75	57				
	Sanguinaire ...	*	63	W	4	=	*	*	57	-	E	4	*	c	4	-	75	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1013·2	61	W	4	f	1019·1	+3	59	+4	NE	1	-	o	1	3	64	54				
	Madrid (8 a.m.)	1011·3	63	-	0	o	1012·3	+1	57	-4	-	0	-	r	*	16	68	54				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1024·2	*	NW	4	c.							*									
	Madeira (Funchal)	1021·6	64	N	2	o	1020·4	0	63	+2	N	2	-	b	2	-	68	63				
	Gibraltar	1015·9	66	NW	5	b	1014·2	*	65	-	NW	2	*	o	2	-	76	62				
	Malta (8 a.m.) ...	*	*	*	*	*	1012·8	+1	68	+2	SW	2	W	bc	1	-	72	63				
	Limassol (6 a.m.)	*	*	*	*	*	1010·7	+2	77	0	-	0	-	b	1	-	83	55				
	Alexandria (6 a.m.)	1011·9	73	NW	2	b	1008·8	0	77	+4	ENE	4	-	b	2	-	79	66				
	Cairo (Helwan) 6 a.m.	1010·6	82	NE	3	b	1011·5	+1	77	+5	-	0	-	b	0	-	93	70				
	YESTERDAY'S REPORTS	...27th..., 8 P.M. G.M.T.					...May...28th..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1004·7	61	-	0	r	1004·9	0	61	0	-	0	*	o	3	7	*	*				
	Turin	1004·9	59	-	0	o	1006·0	0	57	+2	-	0	*	m	*	7	*	*				
	Pesaro	1009·7	61	-	0	b	1005·9	0	61	+3	SSE	1	*	c	3	5	73	55				
	Leghorn	1006·4	61	-	0	o	1006·2	0	63	+2	-	0	*	bc	5	47	*	*				
	Rome	1008·4	57	-	0	o	1008·2	0	64	-4	-	0	*	b	*	18	70	55				
	Viesti	1007·7	63	S	1	o	1006·0	0	57	-7	-	0	*	o	0	3	*	*				
	Brindisi	1009·9	59	SE	2	b	1007·7	0	61	-3	NW	2	*	b	3	48	73	57				
	Cagliari	1011·1	70	NW	4	b	1015·6	0	59	0	S	3	*	bc	3	-	72	50				
	Palermo	-	-	-	-	-	1011·9	0	66	+3	N	2	*	o	3	-	75	59				
	Tripoli	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	*				
	Algiers	1015·1	66	SW	3	bc	1013·0	0	70	+4	WSW	4	*	b	3	-	75	61				

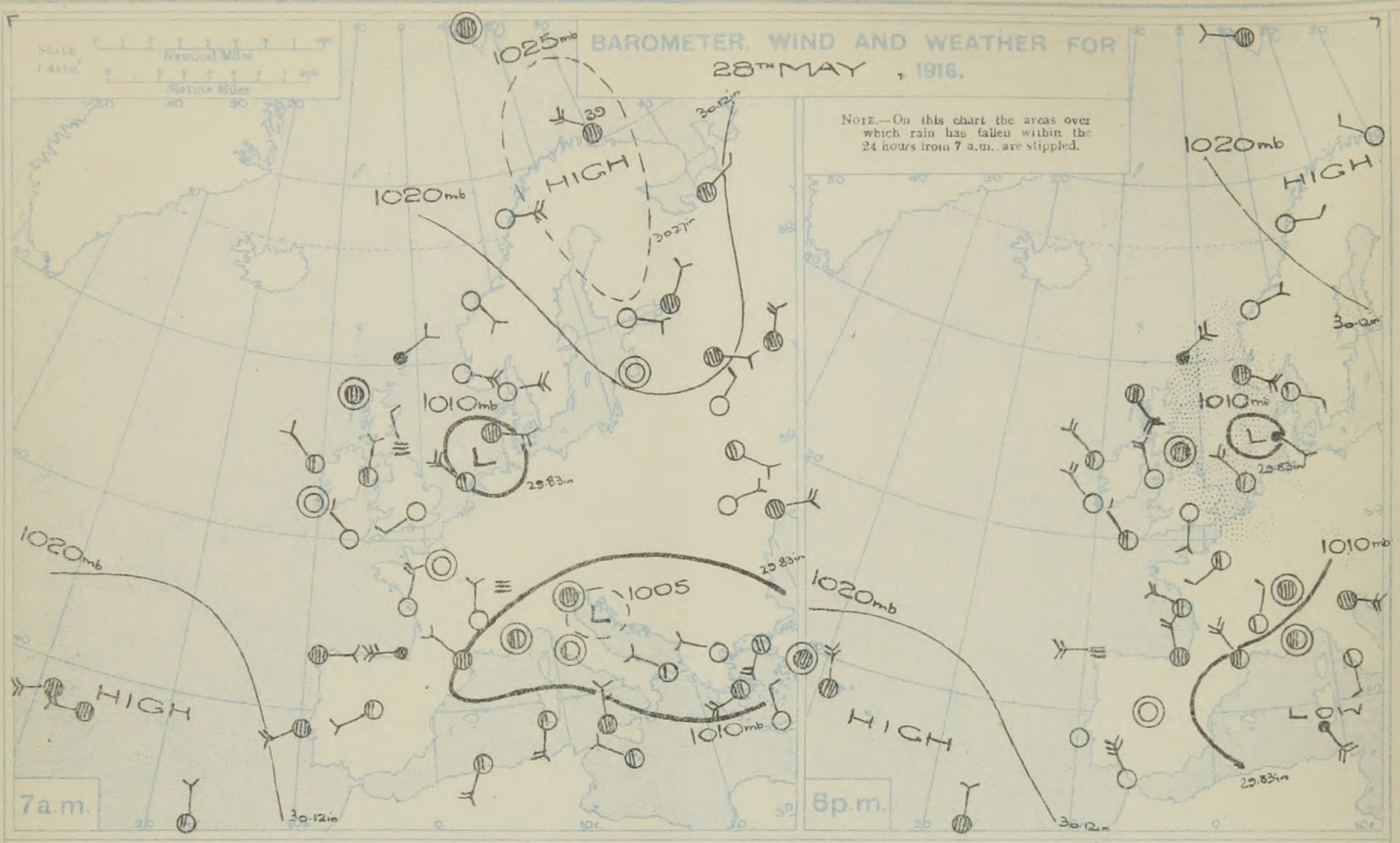
RAINFALL.

Equivalents of Millimetres in Inches.

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

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

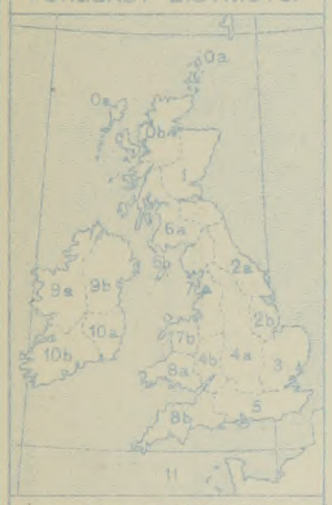
BAROMETER, WIND AND WEATHER FOR 28TH MAY, 1916.



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

0 {a, b} 1 Wind light variable or between East and North-East, fair generally, but local thunderstorms cool.

2 {a, b} 3 4 {a, b} 5 Light variable airs, fair generally, but local thunderstorms; rather warm.

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

7 {a, b} 8 {a, b} Light winds between North and West or variable; fair generally, but local thunderstorms, moderate temperature.

9 {a, b} 10 {a, b} Light winds between West and North or variable; fair generally; moderate temperature.

11 Light variable or Northerly winds; sea slight; fair or bright generally.

FURTHER OUTLOOK.

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

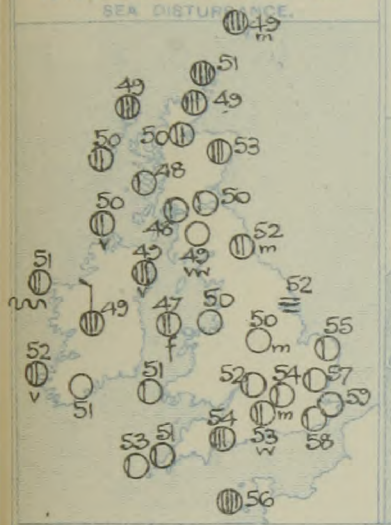
NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 29TH MAY, 1916.

GENERAL INFERENCE.

Very quiet conditions seem likely to continue generally, but local thunderstorms may be 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 : 10 : 0 — Nautical Miles — Statute Miles

Normal Temperature of the Sea

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

Scale of Tints for MAY.

HIGH 1025mb

30.27in

LOW

30.12in

1020mb

1020mb

1015mb

60°

LOW 50°

1015mb

29.27in

30.12in.

50°

Barometer 1015mb

rising LOW

29.27in

rising generally.

29.27in

29.83in

60°

1020mb

Barometer steady

LOW

1010mb

HIGH

1015mb

Issue No. 19,912

DAILY WEATHER REPORT.

Monday, 29th May, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	27th at 9 A.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	1023·1	34	-	0	b.	-	-	-	-	-	-	*	-	-	-	*	-
Gorki	1015·9	46	-	0	b	1019·5	+1	31·4	-12	NE	1	*	b	*	-	*	*
Veliki Luki ...	1020·0	41	NNW	2	b	-	-	-	-	-	-	*		*	-	*	*
Hangö	1022·7	46	ESE	2	0	1024·7	+1	41	-5	ESE	2	*	b	*	-	*	39
Riga	1019·1	54	ENE	1	b	1021·2	0	50	-7	-	0	*	b	*	-	*	41
Petrograd	1023·5	39	ENE	2	0	1023·5	0	39	0	NNE	2	-	0	*	-	41	37
Moscow	1018·6	36	NNW	2	0	1017·5	0	34	-3	NNE	3	*	0	*	-	*	32
Kiev	1016·8	52	SW	1	bc	1014·9	-2	32	0	-	0	*	0	*	-	*	46
Kharkov	1017·2	48	SW	2	b	1015·9	-1	48	+2	W	1	*	0	*	-	*	41
Kishinev	1014·1	59	-	0	bc	1012·8	0	57	0	E	2	*	0	*	-	*	46
Elisabetgrad ...	1016·6	54	SW	1	bc	1014·9	-1	52	0	-	0	*	0	*	-	*	45
Nicolaiev	1015·8	55	ESE	2	0	1013·7	*	55	?	E	2	*	0	0	7	*	50
Odessa	1015·1	61	S	3	b	1013·1	0	61	+2	ESE	3	*	0	*	-	*	57
Tarkhankout ...	1015·9	57	-	0	b	1012·3	?	64	0	S	2	*	b	0	-	*	50
Soukhoum	"	"	.	.	-	-	-	-	-	-	-	*	-	-	-	*	-

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	55	46	bcp	b.	5·0
	Banff	3	56	44	bc	bc. or.	8·1
	St. Andrews						
	Carnoustie	0·2	62	49	c.op	bc	8·6
Eng. N.E.	Harrogate	6	65	40	b	c. othr	6·4
	Skegness	-	60	48	b	b. bc. b.	11·6
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	58	46	bc	bc. o.	6·7
Midlands.	Buxton	-	63	39	bc	bc	8·0
	Leamington Spa	-	67	43	bc	bc. b.	11·3
	Malvern						
	Ross-on-Wye						
Wales.	Rhyl	2	56	43	bcp	p.c.	3·7
	Colwyn Bay	6	52	45	bc	bc	8·0
	Llandudno	3	58	47	bc	bc.	10·1
	Aberystwyth	3	56	47	r.o.c	c. bc	3·5
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	64	58	bc	bc	7·8
	Walton-on-Naze	-	63	50	b	b	12·4
	Southend-on-Sea	-	70	48	b	b. bc. cv	9·0
England, S.E.	Margate	0·3	67	46	b	bcp. b	11·9
	Ramsgate	1	63	44	b	b. ptr	10·2
	Hastings	-	62	47	b	b.	12·3
	Eastbourne	-	63	43	b	b.	12·5
	Seaford						
	Brighton						
	Worthing	-	62	43	b	b	12·8
	Littlehampton	-	60	42	b	b	12·7
	Bognor						
	Bournemouth	-	62	46	c. b	b.	9·8
England, S.W.	Weymouth						
	Torquay	-	64	45	bc	bc.	?
	Paignton						
	Penzance						
	Newquay	-	56	44	b	b	11·0
	Bude	-	65	50	b	b	11·0
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h G.M.T. Yesterday. %	Humidity. 9h G.M.T. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. 24 hours ended 9h G.M.T. To-day. °F.	Rainfall. To-day. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	49	48	12·8	71	48	29	-	b.	c. bc. b	b
City (Bunhill Row)	*	*	13·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	56	57	.	68	45	36	-	bc	bc. bcm	b.
Camden Sq. (Brit. Rainfall)	-	48	9·9	74	46	44	-	-	-	*
Hampstead (Reservoir) ...	*	49	12·7	66	44	43	-	b	b.	bc.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	12·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	48	48	12·6							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2106 Joules	36·3 Milliwatts.	90 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	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.
	mm.§							
Dublin to 15h. G.M.T.	1	60	44	42	c. b	bc	oph. b.	*
Darwen to 21h. "								
Manchester "	Trace	66	45	*	cor. c.	c. bc. cd	c. bc	66
Birmingham "					*			
Oxford to 20h. "	*							*
Teignmouth to 21h. Plymouth "								
S. Kensington (Museum Grounds to 18h. G.M.T.)	*	69	47	?	c. b.	b. c.	c. bv.	*

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

29th & 30th May ... 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 41 3. 40	11. 50 11. 50	19. 59 20. 0
Greenwich	3. 53 3. 52	11. 57 11. 57	20. 1 20. 2
Wick	3. 22 3. 20	12. 9 12. 9	20. 57 20. 58
Valencia	4. 33 4. 32	13. 28 13. 28	20. 43 20. 44

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 70° at a few stations. Thunderstorms occurred at some English stations and thunder was heard at Nairn. Bright sunshine was very prevalent over the Kingdom 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. 151.

Tuesday, 30th May.

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1017·9	54	W	2	bc	1019·4	c	47	-2	-	0	-	f	0	-	56	43	o m c.	bc	bc f.	*
	Deerness (Orkney)	1017·9	53	S	3	c	1018·6	*	48	-3	SSE	3	-	f	2	?	58	47	c	c	c f	3·9
	Stornoway ...	1017·8	56	W	1	bc	1017·9	0	50	+1	SSW	4	-	bc	3	4	56	41	c p	c bc p	bc p	3·7
	Castlebay (Barra Isd.)	1018·5	53	SW	3	b	1018·9	0	49	-1	SSW	3	-	o	3	-	54	46	bc	bc b	bc. o	1·4·0
	Glasgow ...	1017·8	56	W	2	b	1020·0	+1	48	0	W	1	-	bz	*	-	61	40	b bc	bc b	b m x	1·5·5
	Eskdalemuir ...	1017·9	57	NW	2	bv	1019·4	0	50	+1	-	0	-	b	*	0·3	60	35	bv c p	bc p bc	b b x	9·6
	Malin Head ...	1018·7	54	NW	3	bcv	1019·7	0	48	-2	SW	2	SW	bc	2	-	56	45	bcv	bcv	bc q	11·3
	Blacksod Point	1020·0	53	NW	3	bcv	1020·3	0	48	-3	WNW	3	NW	bc	2	0·2	56	45	bcv	bc	bc b c p.	*
	Valencia ...	1021·4	54	NW	3	b	1022·5	0	51	-1	W	2	NW	c	2	0·2	55	44	bc c v b	bv	b v b c c	12·8
	Roche's Point	1020·8	55	W	2	bc	1023·2	*	50	-1	NW	2	N	bc	2	-	60	45	bc c	c bc	bc b bc	*
	Birr Castle ...	1019·0	59	W	1	c	1021·3	*	48	-1	S	1	-	c	*	-	62	39	c	c	c	12·3
	Donaghadee ...	1019·1	50	NNE	3	bcv	1020·5	+1	50	+1	WNW	1	-	bc m	1	-	56	44	bcv	bcv.	bcv p	*
	Liverpool (Bidston)	1018·5	55	W	2	b	1019·4	0	52	+2	W	2	-	b	2	-	59	47	b	c	b	13·5
	Holyhead ...	1018·5	55	NW	1	b	1020·1	0	51	+4	NW	2	-	bc	1	-	56	48	b f	b f	b b w	10·5
	Pembroke (St. Ann's)	1019·8	56	N	2	b	1020·3	+1	53	+2	N	3	-	b	2	-	59	44	b	b	b	11·3
	Scilly (St. Mary's)	1019·2	57	N	4	bv	1021·0	+1	54	+1	N	3	N	bc	3	-	60	50	bv	bv	c bc	13·8
	Falmouth ...	1018·1	58	NNW	4	b	1019·3	+1	52	+1	NNW	3	-	bc	*	-	61	47	bc	bc b	bc	12·5
	Jersey (St. Aubin)	1016·5	60	NE	2	b	1018·1	*	56	0	W	3	-	o	2	-	66	54	o b bc	bc b	b o	9·9
	Portland Bill ...	1017·5	55	W	2	bc	1017·8	+1	54	0	N	3	-	bc	2	-	58	52	c bc	c bc.	bc c.	*
	Dungeness ...	1016·8	61	SW	1	bc	1016·4	0	54	-4	S	3	S	o	4	-	64	52	b bc	b bc	bc. o	*
	Dover	1016·6	61	-	0	c	1017·5	+2	55	-4	S	2	-	o	2	1	64	50	b	b bc c	c o p.	10·0
	Wick	1018·0	50	SE	1	o	1018·0	0	49	0	WSW	1	-	bc	2	1	54	47	bc p	bc o	o g bom	*
	Nairn	1017·2	51	-	0	r g c	1018·5	*	50	0	W	1	-	bc	1	4	61	39	b bc	bc ch p.	p c w.	9·4
	Aberdeen ...	1018·9	50	ESE	2	o	1019·4	0	50	-3	SW	2	-	bc	2	-	57	48	c bc	c bc o	o m bc	5·5
	Leith	1017·4	52	SE	1	o	1019·2	+1	49	-1	W	1	-	b	2	-	60	42	b	o c o	o c b c b	*
	Tynemouth ...	1017·6	55	ENE	1	b o m	1019·5	+1	50	-2	NNW	2	-	b m	2	-	58	46	b m	b o m	b m	*
	Spurn Head ...	1016·2	54	ESE	2	bc	1019·0	+1	49	-3	ENE	2	-	f	3	0·2	62	47	b o m	bc	b o m	10·6
	Yarmouth ...	1017·3	56	ESE	1	bc	1017·7	+1	50	-5	ENE	2	-	c	2	-	63	49	b bc	bc	bc b	10·7
	Clacton-on-Sea	1016·0	62	SSE	2	c	1017·5	+2	56	-1	ESE	2	-	c	2	-	65	53	b b o z	bc c z	c z. v	12·1
	Nottingham ...	1016·3	62	N	1	c	1018·7	*	51	+1	NNE	1	N	r m	*	0·4	68	50	bc. c	c m	c. o	5·4
	Benson (Oxon.) ...	1016·1	63	N	1	bc	1017·9	0	52	0	NNW	2	-	b	*		68	45	b	b	b z.	*
	Sth Farnborough	1015·7	67	W	1	b	1017·0	+1	54	+1	WNW	1	-	c	*	-	70	50	bc. b	bc. o b	bc	12·7
	London (Kew Obsy.)	1016·0	70	W	1	c v.	1017·4	+1	53	-1	NW	1	-	o m	*	-	70	49	b m b bcv	bcv. c v.	c v. b o m	12·2.
NORTHERN EUROPE.	Spitsbergen ...	1027·8	34	-	0	0	1028·0	0	32	-2	S	1	*	0	*	*	34	28				
	Vardö	1022·6	30	N	3	0	1023·1	0	28	-8	N	3	-	o	3	*	36	28				
	Bodö	1018·9	55	-	0	b	1017·5	0	57	+2	E	1	-	b	2	-	67	45				
	Christiansund	1018·4	54	WNW	2	b	1020·4	0	54	-7	SE	2	-	c	2	-	63	48				
	Skudesnaes ..	1019·4	48	-	0	0	1019·4	0	54	+2	-	0	-	o	1	3	52	48				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1020·2	55	-	0	c	1021·1	0	50	0	NE	2	-	r	2	Trace	63	48.				
	Blaavands Huk	1016·7	54	SE	1	0	1018·0	0	46	-4	E	1	-	o	1	1	55	45				
FRANCE, &c.	The Helder ...	1016·8	57	NNE	3	b.	1016·8	0	52	+2	NNE	3	-	o	3	-	63	50				
	C. Gris Nez ...	1015·7	57	NW	2	b	1016·7	+2	54	-	SSW	1	*	r	1	1	68	54				
	La Hève	1016·3	57	NNE	1	c	1017·3	*	55	-	S	2	*	b	1	-	64	52				
	Brest (St. Mathieu)	1017·7	57	N	4	c	1020·0	+2	54	+1	N	4	*	o	2	-	61	48				
	Rochefort (Ile d'Aix)	1013·9	62	WSW	2	o	1016·6	+2	55	-3	E	3	*	o	*	-	64	? 54				
	Biarritz	1014·0	63	NNW	2	b c	1017·0	+2	59	0	WSW	3	*	o	2	-	66	57				
	Paris	1015·5	55	E	2	r	1016·3	+1	52	-	N	1	-	o	*	9	68	50.				
	Belfort	1014·6	51	-	0	f	1016·6	*	52	+2	W	4	*	f	*	2	54	46.				
	Lyons	1014·3	54	NNW	3	o	1016·2	*	51	-3	-	0	*	o	*	-	57	46				
	Nice	1009·7	61	-	0	b	1013·3	+3	62	0	-	0	*	o	2	-	70	54				
	Perpignan ..	1010·3	68	W	3	o	1014·6	+4	64	-2	NW	4	-	o	*	-	79	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna (7 a.m.)	1014·7	64	N	4	b c	1021·5	+3	57	-2	NE	4	-	b c	1	-	64	52.				
	Madrid (8 a.m.)	1010·1	64	-	0	0	1014·7	+2	55	-2	NE	2	-	o	*	3	66	52.				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1025·1	*	NE	2	c.							*									
	Madeira (Funchal)	1019·1	68	N	3	c	1020·3	+2	61	-2	N	2	*	b	2	-	72	61				
	Gibraltar	1013·2	63	W	4	b	1011·8	*	62	-3	NW	3	*	b	1	-	72	61				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·1	±3	70	+2	ENE	1	W	b	0	-	77	63				
	Limassol (6 a.m.)	*	*	*	*	*	1008·3	0	75	-2	W	1	-	b	1	-	82	63				
	Alexandria (6 a.m.)	1009·8	78	NW	4	b	1013·1	+3	72	-5	WNW	5	N	b c	3	-	104	68				
	Cairo (Helwan) (6 a.m.	1007·8	91	NW	1	b	1012·2	+4	72	-5	NNW	4	NE	b	1	-	104	68.				
	YESTERDAY'S REPORTS	....29th...., 8 P.M. G.M.T.					...May...29th..., 7 A.M. G.M.T.															
MEDITERRANEAN.	Venice	1005·9	61	-	0	0	1007·3	0	61	0	-	0	*	r	3	11	*	*				
	Turin	1005·3	63	-	0	2 r	1008·9	+2	61	+4	-	0	*	o	*	Trace	*	*				
	Pesaro	1006·8	63	-	0	b	1007·7	+2	63	+2	SW	1	*	c	2	·40	80	57				
	Leghorn	1007·0	?	W	1	f	1006·8	+2	63	0	:	0	*	b c	3	5	*	*				
	Rome	1008·2	63	-	0	b	1009·0	0	64	0	N	1	*	b	*	1	72	50				
	Viesti	1007·1	61	SW	1	b	1008·2	b	66	+9	-	0	*	b c	2	-	*	*				
	Brindisi	1006·9	66	SE	3	b	1009·2	0	63	+2	SW	1	*	b	2	-	68	54				
	Cagliari	1011·1	68	NNE	3	r	1011·4	0	59	0	N	3	*	b	3	12	70	?				
	Palermo	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-				
	Tripoli	1012·6	68	SSE	1	b	1010·8	0	81	-	?	1	*	b	1	-	*	*				
	Algiers	1012·6	70	WSW	4	c	1011·7	0	72	+2	SW	3	*	c	2	-	79	63				

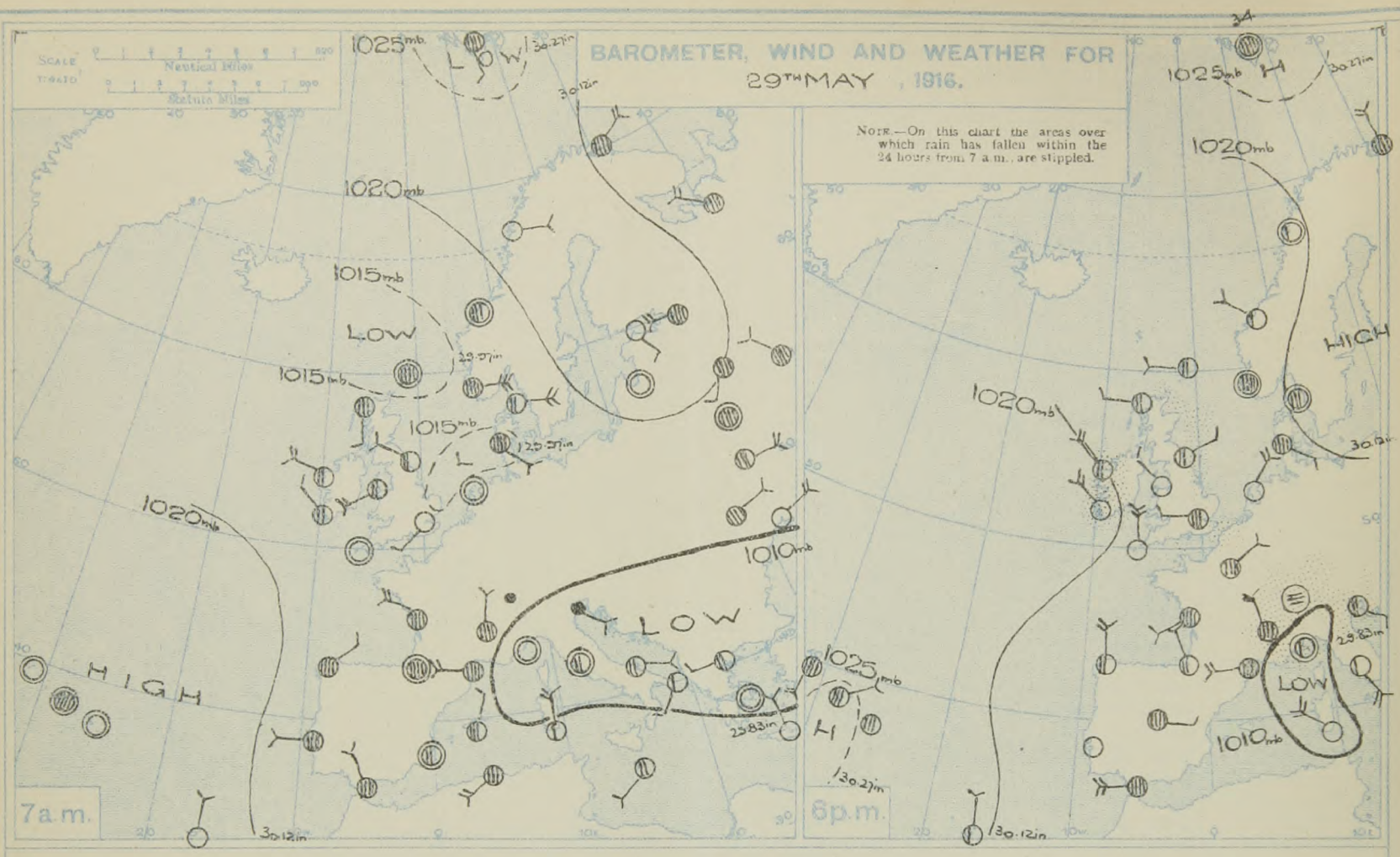
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ....6 A.M.

9,000 feet.	N.	6 m.p.h.
8,000 "	NNE.	6 "
7,000 "	N.	3 "
6,000 "	N.	5 "
5,000 "	NNW.	8 "
4,000 "	NW.	10 "
3,000 "	WNW	9 "
2,000 "	W.	7 "
1,000 "	W.	7 "
Surface.	WNW.	4 "

Falmouth 7 a.m.

6,000 feet.	S by W.	3 m.p.h.
5,000 "	S by E.	2 "
4,000 "	S by E.	3 "
3,000 "	NNE	2 "
2,000 "	N.	20 "
1,000 "	NNW	29 "
Surface.	NNW.	13 "

* 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.

0 (a, b) 1 — Variable or light Southerly and South-Westerly winds; fair, some fog locally, rain later; cool.

2 (a, b) — Light Northerly to North-Westerly or variable winds; fair generally; cool.

3 4 (a, b) 5 — Light winds between North-East and North-West or variable; fair generally, some rain and mist locally; cool.

6 (a, b) — Westerly to South-Westerly or Southerly winds, light or moderate; fair generally; cool.

7 8 9 10 (a, b) — Wind mainly between North and North West, light or moderate; fair generally; cool.

11 — Northerly and North Westerly winds, light; sea slight; fair generally.

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., TUESDAY, 30TH MAY, 1916.

GENERAL INFERENCE.

A very small depression over Kent may cause less fair weather in its vicinity, but there are no indications of any great change in conditions prevailing over our area as a whole.

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. ⊤ₖ, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈

Scale 1 : 2 × 10⁶
Nautical Miles 0 1 2 3 4 5 300
Statute Miles 0 1 2 3 4 5 300

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

HIGH
32
1025mb
30·27in
30°
40°
28
50°
1020mb
51
54
Stationary
50
30·12in
47
55
50
1020mb
48
50
46
52
Barometer
48
51
50
52
53
55
54
56
52
1015mb
52
51
60°
55
62
57
59
64
29·83in
L
1010mb
55
63
61
30·12in
29·97in

Issue No. 19913. **DAILY WEATHER REPORT.** Tuesday, 30th May, **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	28.10 at 9 A.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	29.4 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	.	.	-	-	.	1016·7	+1	36	-	NW	3	*	o	*	-	*	30.
Gorki	.	.	-	-	-	1016·8	?	39	+5	-	o	*	o	*	.	*	*
Veliki Luki ...	.	.	-	-	-	1020·0	?	41	-	SSW	1	*	o	*	-	*	*
Hangö	.	.	-	-	-	1021·4	+2	48	+7	-	o	*	b	*	.	*	37
Riga	.	.	-	-	-	1021·6	o	46	-4	-	o	*	bc	*	-	*	39
Petrograd	.	.	-	-	-	1020·8	-1	45	+6	W	3	-	o	*	.	46	37
Moscow	.	.	.	-	-	1019·1	o	37	+3	NNW	2	*	o	*	-	*	34
Kiev	1013·1	55	E	3	b	1014·3	o	52	o	ESE	3	*	c	*	-	*	46.
Kharkov	1013·9	48	NW	1	b	1014·9	+1	48	o	E	2	*	b	*	2	*	41
Kishinev	1011·0	61	SE	2	b	1011·7	o	55	-2	E	2	*	o	*	-	*	50
Elisabetgrad ...	1012·8	55	SW	1	o	?	o	55	+3	SW	1	*	c	*	-	*	46
Nicolaiev	1011·5	59	ENE	2	o	1011·9	*	55	o	E	3	*	b	*	-	*	?
Odessa	1011·3	63	SE	4	b	1011·1	+1	61	o	ESE	3	*	bc	*	-	*	57
Tarkhankout ...	1011·0	59	E	2	b	1010·4	?	59	-5	ESE	4	*	bc	*	-	*	55
Soukhoum	1011·0	63	-	o	b	1009·9	?	63	-	NE	2	*	c	*	-	*	?

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h. G.M.T.

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 18h.gm.t.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban						
Scotland.	Banff	4	56	44	bc	bc.or	4·0
Scotland.	St. Andrews	0·2	56	39	*	*	10·3
Scotland.	Carnoustie ...	-	56	48	b	bc.qr	7·6
Eng. N.E.	Harrogate	2	63	43	bc.b	bc.qp.v.	8·1
Eng. N.E.	Skegness	-	63	43	bc	bc.	11·5
Eng. N.W.	Morecambe	-	63	43			12·0
Eng. N.W.	Blackpool						
Eng. N.W.	Southport	-	58	47	b	b.bc.	12·7
Midlands.	Buxton						
Midlands.	Leamington Spa	-	66	42	bc	bc.	8·2
Midlands.	Malvern	-	65	48.	b.bc	bc.	8·5
Midlands.	Ross-on-Wye	-	67	40	b	b.	8·4
Wales.	Rhyl	-	56	38	bc	c.bc.	9·0
Wales.	Colwyn Bay	-	57	42	b	bc	10·0
Wales.	Llandudno	-	58	42	b	b.	10·5
Wales.	Aberystwyth	-	54	48	o.c	bc.o	4·0
Wales.	Tenby	-	64	51			9·6
England. E.	Lowestoft	-	62	48.	b.bc.	bc.c	12·0
England. E.	Felixstowe	-	65	48.	bc	bc.	11·3
England. E.	Walton-on-Naze	-	64	48	b	bc	4·2
England. E.	Southend-on-Sea	-	70	48.	b	b.bc.c	11·7
England, S.E.	Margate	-	68	49	b	b.bc.	10·0
England, S.E.	Ramsgate	-	62	45	b	bc.	9·1
England, S.E.	Hastings	-	66	47	b	b.bc.	10·6
England, S.E.	Eastbourne	-	66	46.	b.bc.	bc.or.	8·6
England, S.E.	Seaford	-	63	44	bc	c	7·6
England, S.E.	Brighton						
England, S.E.	Worthing	-	65	44	bc.c	bc.	8·3
England, S.E.	Littlehampton	-	64	44	b.o	b.	9·3.
England, S.E.	Bognor						
England, S.E.	Bournemouth	-	66	39.	c.bc	bc.	8·0
England, S.W.	Weymouth	-	65	43.	bc	b.bc.	6·0
England, S.W.	Torquay	-	64	46	bc	bc.	8·2
England, S.W.	Paignton						
England, S.W.	Penzance	-	63	46	b	bc.b.	10·5
England, S.W.	Newquay	-	56	40	b	b.	11·8
England, S.W.	Bude	-	59	37	w.bc	b	11·5
England, S.W.	Ilfracombe	-	57	41	b	b.	11·2
England, S.W.	Weston-super-Mare ...	-	62	49.	bc.b.	b.bc.	11·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h.gm.t. Yesterday. %	Humidity. 9h.gm.t. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9h.gm.t To-Day.)	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	46	70	13·1	75	47	42	.	b	b.bc.b	bzc.o
City (Bunhill Row)	*	*	12·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	40	69		72	50	43	-	bc	bc.bcm	z.m.
Camden Sq. (Brit. Rainfall)	38	63	9·4	74	51	47	-	b.	b.bc.	*
Hampstead (Reservoir) ...	*	75	12·8	69	48	39	-	bc	bm	bcm.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	12·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	40	68	12·1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1430 Joules	24·8 Milliwatts.	71 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 14h. gm.t								*
Darwen to 21h. "								
Manchester "				*				
Birmingham "								
Oxford to 20h. "	*							*
Teignmouth to 21h. "								
Plymouth "								
S. Kensington (Museum Grounds to 18h.gm.t)	-	72	47	?	bv.b	c.b.bc	bcc	*

NOTES ON YESTERDAY'S WEATHER.

The temperature rose to 70° in the South-east of England. A little rain fell in a few localities, but generally the day was very bright.

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

30th & 31st May. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 40 / 3. 39	11. 50 / 11. 50	20. 0 / 20. 1
Greenwich	3. 52 / 3. 51	11. 57 / 11. 57	20. 2 / 20. 3
Wick	3. 20 / 3. 19	12. 9 / 12. 9	20. 58 / 20. 59
Valencia	4. 32 / 4. 31	13. 38 / 13. 38	20. 44 / 20. 45

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. 152

Wednesday, 31st May

	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 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.				‡	°F.	°F.								°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1019·5	49	S	2	o	1016·0	-1	49	+2	S	1	-	cm	1	0·3	52	45	fcm.	om	om.c	
	Deerness (Orkney)	1017·6	50	SSE	3	om	1015·2	*	50	+2	W	3	SW	bc	1	-	55	46	f.c bc	bc.c om.	ac.bc	6·7
	Stornoway ...	1016·9	51	SW	4	cp.	1014·7	-2	49	-1	S	3	-	bc	3	6	53	41	cp	cp	bc	4·9
	Castlebay (Barra Isd.)	1018·4	52	SW	4	bc													o bc	bc.		
	Glasgow ...	1018·0	37	W	3	b	1017·4	-2	49	+1	SW	1	-	omg	*	0·1	59	44	bz.bc	bc.b.	b.bc.o.p	12·6.
	Eskdalemuir ...	1018·1	55	W	2	bcv.	1018·3	0	47	+3	-	0	N	o	*	1	59	37	b.bc.cv.	o.p.bcv.	bc.c o	8 5
	Malin Head ...	1018·7	52	W	2	b	1014·2	-5	47	-1	SW	3	SW	cmr	2	2	56	47	bc.p.	bc.	cmr	8 5
	Blacksod Point	1020·1	50	W	3	cg	1011·7	-2	52	+4	W	5	W	cmr	4	7	55	47	bc	bc.p	cg.cmr.	*
	Valencia ...	1022·5	53	WSW	3	o	1019·0	0	54	+3	SSW	4	-	o.p.	4	1	57	40	cv.	c. ov.	o.o.p.c.	5·1
	Roche's Point	1022·8	55	WSW	2	o	1022·0	*	53	+3	SW	4	-	r	4	0·3	58	50	bc	c.p. c	or	*
	Birr Castle ...	1021·3	55	W	2	c	1017·4	*	53	+5	S	3	-	o	*	1	57	47	c.p.	c.p.	c.o.	4·2.
	Donaghadee ...	1019·0	50	NNE	3	bcm	1017·9	0	49	+1	SW	2	-	omr	1	1	60	47	bcm	bcm	cmp	*
	Liverpool (Bidston)	1020·1	55	W	2	b	1020·1	0	53	+1	SW	1	W	b	2	-	59	50	b	b	c	13·7
	Holyhead ...	1020·2	56	WSW	3	cv	1019·9	-1	52	+1	SSW	4	-	cv	3	-	58	50	b.bc.b	b.bc.c	c.o.c	13·9
	Pembroke (St. Ann's)	1021·7	55	WNW	2	b	1022·6	0	51	+2	WSW	3	s	c	3	-	68	51	b	b	c	14·1
	Scilly (St. Mary's)	1023·3	54	NNW	5	cv	1024·8	-0	54	0	NW	2	NW	bcv	3	-	60	49	bc	bc	c.bcv.	14·3
	Falmouth ...	1021·8	57	NNW	2	b	1023·8	+1	54	+2	W	2	-	b	*	-	63	46	b	b	bc	13·0
	Jersey (St. Aubin)	1019·7	60	NW	3	b	1023·6	*	55	-1	NW	2	-	b	1	-	61	49	o	o b	b	8·7
	Portland Bill ...	1018·6	56	W	3	bc	1022·2	+2	54	0	NW	3	-	b	2	-	65	51	bc.b	bc.b	b.bc	*
	Dungeness ...	1019·2	56	SW	2	c	1020·4	+1	50	-4	-	0	-	f	0	0·2	60	46	bc	bc	b.ow.f	*
	Dover	1019·0	57	S	1	o	1020·9	+1	53	-2	-	0	-	m	2	0·3	61	47	p.o	c.o.	o.bc.bz	1·1
	Wick	1017·2	52	W	1	c	1014·9	-1	50	+1	W	1	W	o	1	-	54	44	bc	bc.cm	om.c.	*
	Nairn	1016·3	51	W	3	cpg	1015·6	*	50	0	W	2	-	bc	1	1	60	40	bcg	cu.bcg.	d.g.u.p	12·2.
	Aberdeen ...	1017·1	51	SE	3	bc	1016·5	0	52	+2	W	1	SW	bc	2	-	57	42	bc.b	c.bc	bc.b	7·9
	Leith	1017·4	60	W	1	bc	1017·5	-1	49	0	W	1	W	c	2	-	62	42	b	bc	bc	*
	Tynemouth ...	1018·9	51	S	2	om	1018·8	0	51	-1	W	2	W	om	2	-	56	47	bm	cm.	cm.	*
	Spurn Head ...	1020·0	49	N	2	om	1020·3	0	51	+2	WNW	5	-	bcg	4	0·1	51	47	f.cmf	f.cm.	cm.	0·0.
	Yarmouth ...	1019·1	53	ENE	1	c	1020·3	+1	51	+1	NNW	1	-	bm	1	1	56	47	a.c.p	o.c.	or.bc.f	1·8.
	Clacton-on-Sea	1018·6	58	ESE	2	bc	1020·9	0	55	-1	WNW	2	-	bc	1	-	60	50	cv.o.c	c.bc	c.bcz	3·2.
	Nottingham ...	1018·7	58	SSE	1	c	1021·0	*	52	0	SW	1	W	bm	*	0·1	60	47	r.o	o.c	c.p.o	0·3.
	Benson (Oxon.) ...	1018·1	60	NNW	1	c	1022·3	+2	51	-3	WNW	1	-	b	*	-	66	41	bcz	c	b	*
	Sth Farnborough	1017·9	60	SW	1	bc	1021·3	+2	54	0	WNW	1	N	bcz	*	-	69	44	bcz	bc.o.bc	bc.o.bc	8·7.
	London (Kew Obsy.)	1018·8	61	SSW	1	c	1021·9	+2	52	-1	W	1	W	cm	*	-	64	46	o.m.cu.m²	o.m.c.	c.o.f.cm	5·5
NORTHERN EUROPE.	Spitsbergen ...	1028·0	30	SE	4	o	1025·1	-2	34	+2	ESE	4	*	o	*	*	34	28.				
	Vardö	1026·9	28	N	8	o	1030·4	0	32	+4	NE	1	-	o	2	*	28	25				
	Bodö	1020·0	48	SW	1	f	1020·6	0	52	-5	E	4	-	b	2	-	57	43				
	Christiansund	1020·6	54	-	0	c	1016·2	-3	50	-4	-	0	-	c	2	4	57	45				
	Skudesnaes ..	1018·6	52	N	4	c	1015·5	0	50	-4	N	1	-	o	1	-	55	48				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1016·9	52	NE	2	o	1015·7	-1	52	-2	ESE	3	-	o	3	1	54	50.				
	Blaavands Huk	1016·2	52	N	2	r	1016·2	+1	50	+4	NW	2	-	o	2	1·4	54	46				
FRANCE, &c.	The Helder ...	1017·3	54	N	3	o	1020·7	+1	50	-2	W	1	-	o	1	1	54	50.				
	C. Gris Nez ...	1018·0	58	NNE	2	o	1020·2	+1	55	+1	WSW	3	*	o	2	-	61	48				
	La Hève	1019·6	60	NW	2	m	1021·7	*	55	0	WNW	2	*	o	2	-	66	52				
	Brest (St. Mathieu)	1022·3	37	NNW	4	b	1026·3	+2	57	+3	NNW	2	*	b	1	-	59	50				
	Rochefort (Ile d'Aix)	1018·9	66	NNE	4	tlr	1023·7	+2	60	+5	E	3	*	b	*	-	75	54				
	Biarritz	1019·3	58	W	4	o	- ?	+2	61	+2	-	0	*	c	2	-	61	57				
	Paris	1018·9	59	NNE	2	b	1022·7	+2	54	+2	-	0	-	b	*	-	64	45				
	Belfort	1018·0	55	W	4	r	1022·1	*	54	+2	-	0	*	m	*	?	61	46.				
	Lyons	1017·1	59	NW	3	c	1021·2	*	55	+4	N	2	*	o	*	-	66	50.				
	Nice	1014·1	61	-	0	bc	1014·7	0	64	+2	S	1	*	bc	0	-	70	54				
	Perpignan ..	1014·9	70	NW	3	b	1017·7	+1	63	-1	NW	4	-	o	*	-	75	59				
	Sanguinaire ...	*	68	NW	3	o	*	*	67	-	E	3	*	b	2	-	79	54				
SOUTHERN STATIONS.	Corunna (7 a.m.)	1023·1	59	NNW	5	c	1026·9	+2	57	0	NE	4	-	b	1	-	61	?54				
	Madrid (8 a.m.)	1012·4	66	NE	3	c	1019·7	+3	57	+2	NE	1	-	b	*	1	68	46.				
	Lisbon (7 a.m.)																					
	Azores (Horta, 8 a.m.)	1023·1	*	SSW	5	b							*									
	Madeira (Funchal)	1020·7	66	NE	2	o	1021·2	0	59	-2	NE	2	N	bc	2	-	68	59				
	Gibraltar	1014·5	65	W	4	r	1015·6	*	63	+1	W	4	*	b	2	Trace	75	60				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·3	+1	66	-4	E	5	-	o	5	-	72	64				
	Limassol (6 a.m.)	*	*	*	*	*	1009·0	0	73	-2	WSW	4	-	b	2	-	84	61				
	Alexandria (6 a.m.)	1014·4	70	NW	3	b	1014·4	+1	72	0	NW	3	-	b	1	-	79	66				
	Cairo (Helwan) (6 a.m.)	1012·8	75	N	5	b	1013·6	-1	72	0	N	1	-	b	0	-	93	61				
	YESTERDAY'S REPORTS			....29th..., 8 P.M. G.M.T.							...May...30th...., 7 A.M. G.M.T.											
MEDITERRANEAN.	Venice	1010·2	64	-	0	bc	1012·6	0	63	+2	-	0	*	c	1	Trace	*	*				
	Turin	1009·4	64	-	0	tlr	1013·0	0	57	-4	-	0	*	o	*	-	*	*				
	Pesaro	1010·4	66	-	0	c	1013·0	0	66	+3	-	0	*	b	1	-	72	57				
	Leghorn	1010·7	66	-	0	b	1012·9	0	64	+1	-	0	*	bc	4	-	*	*				
	Rome	1011·4	64	SSE	3	b	1013·7	0	68	+4	-	0	*	b	*	-	73	55				
	Viesti	1011·0	63	NNW	1	b	1013·6	0	66	0	-	0	*	bc	1	-	*	*				
	Brindisi	1010·6	66	W	3	c	1009·3	0	64	+1	SW	2	*	b	3	-	73	61				
	Cagliari	1009·6	70	NW	4	b	1012·4	0	59	0	SE	2	*	c	3	-	73	56.				
	Palermo	1012·9	64	-	0	b	1014·2	0	70	-	-	0	*	bc	1	-	79	54				
	Tripoli	*	-	-	-	-	1009·7	0	73	-8	E	1	*	b	4	-	*	*				
	Algiers	1011·0	68	NNE	2	o	1011·3	+3	66	-6	N	3	*	o	2	1	81	63.				

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at ...6.44am.

6,000	feet.	S.W. by W. 11 m.p.h.
5,000	"	W.S.W. 13 "
4,000	"	W.S.W. 16 "
3,000	"	W. by S. 14 "
2,000	"	W. by N. 8 "
1,000	"	N.W. 11 "
Surface.	"	W. by N. 5 "

Falmouth 7 a.m.

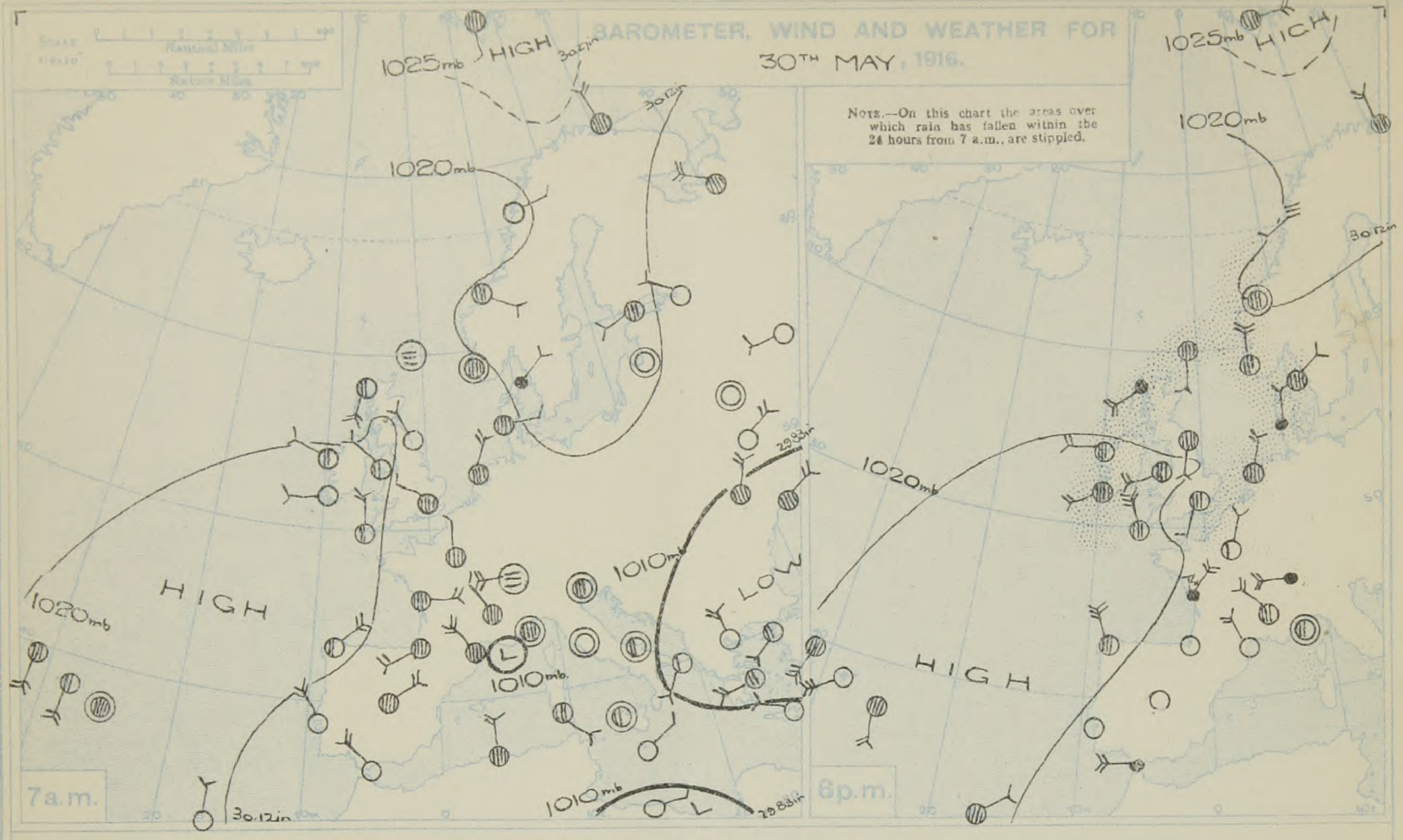
3,000	feet.	W. by N. 14 m.p.h.
2,000	"	W.N.W. 13 "
1,000	"	W.N.W. 12 "
Surface.		W by N. 9 "

Aberdeen. 7 a.m.

8,000	feet.	S.W. 19 m.p.h.
7,000	"	S.W. 11 "
6,000	"	S.S.W. 14 "
5,000	"	S.W. 9 "
4,000	"	W.S.W. 11 "
3,000	"	S.W. 5 "
2,000	"	W.N.W. 5 "
1,000	"	N.W. 5 "
500	"	N.W. 3 "
Surface.		Calm. 0 "

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

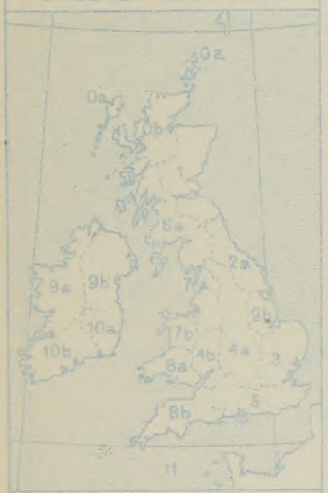
BAROMETER, WIND AND WEATHER FOR 30TH MAY, 1916.



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 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 — Wind freshening somewhat from the South or South-West; cloudy, some rain; normal temperature.

2 a b, 3, 4 a b, 5 — Light or moderate winds from between West and South-West; fair, slight showers possible later; normal temperature.

6 a b, 7 a b — Moderate or fresh Southerly to South-Westerly winds; cloudy, some rain; normal temperature.

8 a b — Moderate winds from West or South-West; fair, some showers; normal temperature.

9 a b, 10 a b — Moderate orfresh winds from South-West or West; cloudy, some rain; normal temperature.

11 — Light or moderate Northerly or North-Westerly winds; slight sea; fair.

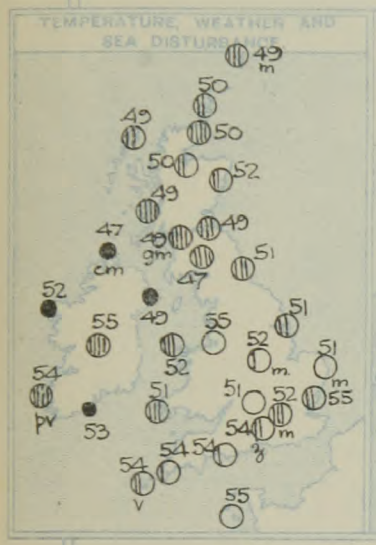
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 31ST MAY, 1916.

GENERAL INFERENCE.

The depression approaching our North-West coasts will cause unsettled weather over Scotland, but will not be felt much in the South of the country.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

Scale of Nautical Miles and Statute Miles

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

1025mb
1030mb
HIGH
40°
50°
1020mb
30·42in
30·27in
30·12in
1015mb
LOW
Barometer falling
Barometer rising
29·97in
30·12in
30·27in
HIGH
70°
1015mb
LOW
60°
1025mb
1020mb

Issue No. 19,914. **DAILY WEATHER REPORT.** Wednesday, 31st May, **1916.**

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	29th at 9 PM. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	30th 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 0–6.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	°F.								
Archangel	1009·3	37	NW	3	0	1010·9	0	32	-4	NNW	4	*	0	*	-	*	28
Gorki	1018·3	40	-	0	b	1018·6	+2	45	+6	-	0	*	b	*	-	*	*
Veliki Luki ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	-	*	*
Hangö	1021·3	50	WNW	3	b	1021·2	0	46	-2	WSW	2	*	c	*	-	*	37
Riga	1021·1	48	-	0	b	1022·6	0	55	+9	-	0	*	b	*	-	*	41
Petrograd	1017·0	50	WNW	3	b	1015·1	0	54	+9	WNW	2	-	b	*	-	55	45
Moscow	1017·0	45	W	2	0	1014·1	+2	48	+11	W	2	*	b	*	-	*	41
Kiev	1015·0	50	NE	5	r	1016·7	+2	43	-9	NE	3	*	?	*	10	*	41
Kharkov	1014·9	52	NE	2	0	1016·0	+2	46	-2	NE	3	*	b	*	-	*	41
Kishinev	1010·6	59	SSE	2	bc	1009·6	+1	54	-1	NNE	3	*	0	*	-	*	54
Elisabetgrad ...	1011·8	59	ENE	2	r	1009·9	+1	48	-7	NNE	3	*	0	*	-	*	48
Nicolaiev	1009·7	63	ENE	4	bc	1009·3	*	57	+2	ENE	3	*	0	*	-	*	62
Odessa	1010·0	63	SSE	2	0	1006·7	0	63	+2	SE	2	*	0	*	-	*	59
Tarkhankout ...	1010·3	59	E	1	r	1013·0	?	61	+2	E	1	*	0	*	1	*	57
Soukhoum	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	*	

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h. G.M.T.

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h.GMT
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	54	42	c	b	8·1
	Banff	7	53	45	bcpr	c.or	1·8
	St. Andrews						
	Carnoustie	1	57	51	b	b	10·4
Eng. N.E.	Harrogate	2	60	45	c.bc	otp.bc	3·6
	Skegness	-	53	47	og	ogu	0·0
Eng. N.W.	Morecambe	-	62	45			12·3
	Blackpool						
	Southport	-	59	49	b	b	12·2
Midlands.	Buxton						
	Leamington Spa	-	64	49	o	o	3·0
	Malvern	-	67	50	c.bc	bc.c	9·0
	Ross-on-Wye	-	69	45	m.b	b.bc.	8·2
Wales.	Rhyl	-	57	42	bc	bc.	12·0
	Colwyn Bay	-	58	46	b	bc.	13·0
	Llandudno	-	58	42	b	b	13·0
	Aberystwyth	-	57	45	c.b.	b.bc.	12·0
	Tenby						

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h.GMT
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft	0·3	55	49	op	op.c.	1·2
	Felixstowe	-	62	50	o	bc.	2·8
	Walton-on-Naze	-	62	54	c	bc.	4·1
	Southend-on-Sea	-	64	54	op	o	0·2
England, S.E.	Margate	-	62	52	c	bc.	2·7
	Ramsgate	-	62	52	o	c.	2·9
	Hastings	-	61	54	o	bc.o.c.	2·6
	Eastbourne	-	60	51	o.bc	o.c.bc.o	2·1
	Seaford	Trace	64	44	c	bc	3·6
	Brighton	2.	61	51	o.c	c.or	3·2
	Worthing	1	64	50	bc.c	otd	3·5
	Littlehampton	1	62	50	o.b.bc	op.	3·2
	Bognor	1	63	51	bc	o tr.	2·9
	Bournemouth	-	68	49	bc	bc.	8·5
England. S.W.	Weymouth	-	71	51	b.b.bc	bcm.	9·4
	Torquay	-	67	50	bc	bc.	8·3
	Paignton						
	Penzance	-	64	49	b	b	12·0
	Newquay	-	57	48	b	b.	11·4
	Bude	-	60	42	b	b	9·2
	Ilfracombe	-	58	44	b	b	9·0
	Weston-super-Mare ...	-	63	48	bc.b	b	10·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 15h.GMT Yesterday.	Humidity. 9h.GMT 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.) ...	84	78	3·6	68	44	34	11	c.oz	ogtlrh	o.c.m.
City (Bunhill Row)	*	*	1·9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	69	72	2·6	65	47	41	1	b.lro	abom	o.
Camden Sq. (Brit. Rainfall)	62	66	2·7	67	48	46	-	bz.c.	c.o.c	*
Hampstead (Reservoir) ...	*	72	3·7	62	45	42	-	bc	c.	bc.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	5·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	62	71	2·3							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1094 Joules	18·8 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 14h. GMT	-	60	45	41	bc	bc	c	*
Darwen to 21h. "								
Manchester "				*				
Birmingham "					*			
Oxford to 20h. "	*							*
Teignmouth to 21h. "								
Plymouth "	-	67	49	-	bcvq	bcvq	bcvq	11·5
S. Kensington (Museum Grounds to 18h.GMT)	-	69	52	42	c. b.	bz.oz	to bc	*

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

31st May & 1st June. 1916.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 39 4. 38	11. 51 11. 51	20. 1 20. 4
Greenwich	3. 51 4. 51	11. 57 11. 57	20. 3 20. 6
Wick	3. 19 4. 17	12. 9 12. 10	20. 59 21. 2
Valencia	4. 31 5. 29	12. 38 12. 39	20. 45 20. 48

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 69° at South Farnborough, but generally not much above 60°. Showers fell in the North West, little rain elsewhere. Sunshine was very variable up to 14 hours at a few 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.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

MAY, 1916.

Corrections and additions for the month of May 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 on 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	1010·8	55	NE	2	b	1008·9	0	53	+3	ENE	3	–	bc	3	–	61	50	b bcm	bm	bml.bcm	11·3
	Spitzbergen	1015·4	7	NW	4	b	1015·3	−1	−4	−31	–	0	*	b	*	*	27	−13	.	.	.	.
	Vardö	1014·1	28	N	5	o	1015·1	0	25	−7	WSW	4	–	b	2	*	34	27	.	.	.	.
	Horta	1009·5	59	NNW	3	bc	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	Scilly	1009·5	55	E	2	bcm	1010·0	0	52	−1	E	3	–	om	3	0·2	59	49	bcm	bcm	bcmp	9·7
	Lisbon	1009·5	59	SSW	4	o	1009·5	+1	61	+4	E	3	–	o	2	–	64	57	.	.	.	.
	Horta	.	.	.	.	.	1013·5	+2	56	+1	N	4	*	o	2	–	64	55	.	.	.	.
3	Scilly	1010·5	52	–	0	om	1008·8	−1	49	−3	NW	1	NW	m	2	–	55	48	om	om	f m	0·0
	Lisbon	1006·0	64	SSW	3	o	1006·7	−2	59	−2	ESE	2	–	c	5	–	66	59	.	.	.	.
	Gibraltar	1008·1	61	E	4	m	1005·1	*	61	+4	E	4	*	c	1	–	72	57	.	.	.	.
	Horta	.	.	.	.	.	1015·4	0	57	+1	–	0	*	o	1	1	64	55	.	.	.	.
	Funchal	1002·7	64	NW	2	o	1005·0	+2	57	−4	WNW	3	W	c	3	–	66	57	.	.	.	.
4	Lisbon	999·7	57	SSE	4	c	997·0	−1	59	0	SSW	5	–	o	3	6	61	55	.	.	.	.
	Horta	.	.	.	.	.	1012·2	−2	55	−2	NNE	4	*	o	2	–	64	55	.	.	.	.
	Funchal	1005·9	64	NW	4	c	1007·4	0	59	+2	NW	3	–	bc	2	–	66	57	.	.	.	.
	Alexandria	1015·7	68	–	0	b	1015·7	+1	68	.	–	0	–	b	0	–	78	63	.	.	.	.
	Cairo	1012·4	75	NE	5	b	1014·0	+4	72	.	N	2	–	b	*	–	91	61	.	.	.	.
5	Sanguinaire	*	67	SE	4	m	*	*	59	.	SW	5	*	m	5	–	68	55	.	.	.	.
	Horta	.	.	.	.	.	1009·5	0	55	0	NE	6	*	c	3	–	61	55	.	.	.	.
	Funchal	1007·7	63	NW	3	c	1010·4	0	57	−2	W	3	–	c	4	–	66	57	.	.	.	.
6	Sanguinaire	*	61	SW	3	m	*	*	61	+2	ESE	4	*	m	3	–	66	55	.	.	.	.
	Lisbon	1010·3	66	SW	5	bc	1010·0	−1	54	−3	NE	3	–	o	4	f	60	54	.	.	.	.
7	Paris	1003·1	50	S	3	r	1006·1	–	52	−5	SSE	1	–	o	*	3	66	50	.	.	.	.
8	Paris	1004·6	54	S	3	o	1010·3	–	46	−6	SW	4	–	c	*	2	63	43	.	.	.	.
	Lisbon	1021·9	52	NW	3	b	1021·2	0	55	+1	NNE	5	–	bc	4	–	60	47	.	.	.	.
	Horta	.	.	.	.	.	1027·9	0	56	+1	–	0	*	o	1	–	63	55	.	.	.	.
10	Paris	1012·0	54	SSW	3	o	1016·4	–	46	−2	NW	2	–	o	*	1	63	46	.	.	.	.
	Lisbon	1020·0	57	NNW	4	o	1019·3	+1	60	+6	NNW	4	–	b	5	–	64	54	.	.	.	.
11	Paris	1019·4	55	NW	2	o	1020·8	–	52	+6	–	0	–	o	*	–	63	46	.	.	.	.
	Corunna	1022·1	57	NE	4	b	1019·8	−1	50	−4	SE	2	–	b	1	–	59	45	.	.	.	.
	Lisbon	1019·0	56	NW	5	b	1017·0	0	62	+2	NNW	4	–	b	5	–	66	52	.	.	.	.
12	Paris	1018·3	61	WSW	1	o	1017·3	*	59	+7	–	0	–	b	*	–	68	48	.	.	.	.
	Lisbon	1016·4	55	NNW	5	bc	1018·0	+2	61	−1	NNW	4	–	b	5	–	68	55	.	.	.	.
13	Lyons	1012·6	64	NNW	2	b	1013·5	*	55	+3	W	3	*	o	*	–	70	50	.	.	.	.
	Lisbon	1019·1	58	NW	3	b	1019·0	+1	61	0	NNW	5	–	b	5	–	66	55	.	.	.	.
	Horta	.	.	.	.	.	1026·7	+1	59	−2	–	0	*	c	0	–	72	57	.	.	.	.
14	Lisbon	1018·3	61	NNW	5	b	1018·7	0	57	−4	NW	2	–	b	2	–	64	54	.	.	.	.
15	Madrid	1015·0	73	–	0	bc	1018·7	+2	59	+2	NE	1	–	bc	*	–	74	50	.	.	.	.
	Lisbon	1017·2	68	WNW	4	b	1015·9	0	57	0	N	2	–	b	2	1	73	54	.	.	.	.
16	Lisbon	1014·0	68	NW	4	b	1013·0	+2	68	+11	SSW	3	–	o	2	–	81	63	.	.	.	.
	Horta	.	.	.	.	.	1014·1	−2	64	+1	SSW	6	*	o	3	–	70	63	.	.	.	.
17	Dover	.	.	.	.	.	1025·6	+4	54	−2	W	1	–	m	1	–	58	47	.	.	bcm	9·8
	Lisbon	1014·4	65	W	3	o	1016·3	+3	65	−3	NNE	1	–	or	*	1	71	62	.	.	.	.
	Horta	.	.	.	.	.	1004·3	+2	62	−2	SW	7	*	o	5	14	68	61	.	.	.	.
18	Madrid	1015·5	81	SE	3	b	1023·7	+2	64	−2	ENE	1	–	b	*	–	84	57	.	.	.	.
	Lisbon	1019·3	64	SW	1	b	1021·6	+3	64	−2	N	2	–	o	*	1	76	61	.	.	.	.
	Horta	.	.	.	.	.	1009·2	+1	62	0	SW	7	*	bc	4	1	66	59	.	.	.	.
19	Lisbon	1020·4	69	NW	4	b	1022·3	+2	74	+10	W	1	–	b	2	–	79	65	.	.	.	.
	Horta	.	.	.	.	.	1017·0	+4	59	−3	WSW	5	*	o	4	1	66	59	.	.	.	.
	Alexandria	1016·7	70	NNW	5	c	1016·3	+1	70	−2	NNW	4	W	bc	3	–	79	66	.	.	.	.
	Cairo	1015·4	77	N	3	bc	1014·3	+1	70	−3	N	3	NW	c	*	–	93	66	.	.	.	.
20	Lisbon	1021·6	69	NNW	5	b	1020·7	0	73	−1	S	2	–	b	*	–	90	62	.	.	.	.
	Horta	.	.	.	.	.	1010·3	−2	63	+4	SSW	8	*	o	6	1	66	59	.	.	.	.
22	Lisbon	1018·7	81	NNW	4	bc	1022·9	+2	63	−8	NNW	4	–	b	5	–	81	61	.	.	.	.
	Horta	1027·3	61	SSE	2	c	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
23	Corunna	1026·9	61	N	5	f	1022·0	0	59	+2	N	4	–	o	1	–	61	57	.	.	.	.
	Lisbon	1019·3	70	NNW	5	b	1018·4	+1°	63	0	NW	2	–	o	3	–	75	59	.	.	.	.
	Malta	.	.	.	.	.	1022·3	+1	64	−2	NW	3	–	o	1	–	70	61	.	.	.	.
24	Le Hève	1018·6	64	NE	2	b	1012·8	*	52	−3	ESE	3	*	c	2	–	68	50	.	.	.	.
	Sangcinaire	*	68	WSW	2	m	*	*	66	+2	E	1	*	m	1	–	77	63	.	.	.	.
	Lisbon	1014·7	63	WNW	4	bc	1017·1	+2	57	−6	WNW	4	–	bc	5	–	68	55	.	.	.	.
	Horta	.	.	.	.	.	1028·2	0	61	0	NNE	2	*	bc	1	–	73	59	.	.	.	.
25	Castlebay	.	.	.	.	.	1005·8	0	48	−1	–	0	–	r	1	6	53	47	.	.	b.omp.r	5·9
	Le Hève	1005·9	56	SE	2	c	1005·2	*	54	v+2	WSW	3	*	o	2	–	63	52	.	.	.	.

REPORTS FOR MAY, 1915.

DATE	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0–12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0–12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
	Lisbon	1019·3	70	NNW	5	bc	1018·4	+1	63	+6	NW	2	c	o	3	–	75	59	.	.	.	.
	Horta	.	.	.	.	.	1027·0	0	63	+2	—	0	–	c	0	–	73	63	.	.	.	.
26.	Lisbon	1020·4	61	NNW	4	bc	1022·4	0	66	+3	W	2	–	bc	3	–	64	57	.	.	.	.
27	Sanguinaire	*	61	SW	5	m	*	*	55	–3	SW	4	*	r	5	8	66	50	.	.	.	.
	Lisbon	1020·0	61	WNW	4	c	1021·0	+1	59	–7	WNW	2	–	o	3	2	63	57	.	.	.	.
29.	Dover	1012·8	59	SW	4	bv	.	.	.	.	.	.	.	.	.	.	.	.	b	bv	.	:
	C. Gris Nez	1013·6	58	WSW	1	b	1015·7	–	56	0	SW	2	*	b	0	–	63	50	.	.	.	.
	La Hève	1013·3	59	N	2	bc	1015·3	*	51	–4	NE	2	*	o	2	–	63	46	.	.	.	.
	Paris	1012·3	68	–	0	bc	1015·3	–	55	–2	NNE	1	–	b	*	–	68	46	.	.	.	.
	Lisbon	1015·3	64	SW	3	r	1014·0	0	61	0	W	2	–	bc	3	–	66	59	.	.	.	.
	Horta	.	.	.	.	.	1024·0	0	64	0	–	0	*	o	1	1	73	64	.	.	.	.
30	Lisbon	1015·1	61	NW	3	o	1014·4	+1	68	+7	NNW	4	–	bc	5	–	69	58	.	.	.	.
	Horta	.	.	.	.	.	1021·5	0	63	–1	SSW	4	*	bc	2	–	73	63	.	.	.	.
31	Castlebay	.	.	.	.	.	1014·1	.	49	0	SE	4	–	c	4	0·2	53	45	.	.	bc. 0. 0p	0·1
	Lisbon	1016·6	61	NNW	5	b	1017·7	+2	67	0	NNE	5	–	b	5	–	72	58	.	.	.	.
	Horta	.	.	.	.	.	1021·7	0	64	+1	SSW	5	*	bc	3	–	72	64	.	.	.	.

Corrections.

1.	Birr Castle	.	.	.	.	.	?1013·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Jersey	.	.	.	.	.	1008·9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Lyons	.	.	.	.	.	1013·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2.	Glasgow	.	.	.	.	.	1019·3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Birr Castle	.	.	.	1	.	.	.	.	.	.	.	.	b	.	.	.	.	.	.	.	.	.
	Nottingham	.	50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3.	Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.
	Liverpool	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.	50	46	.	.	.	.	.
4.	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	.	.	.	.	.	.
	Liverpool	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	.	.	.	.	.
	Dover	.	.	.	.	.	1004·8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Aberdeen	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1·9
	Nice	.	.	.	.	.	.	.	71	+8	.	.	.	b	.	.	.	.	.	.	.	.	.
5	Liverpool	.	.	.	.	.	.	.	45	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.	.
	Dover	.	.	SSW	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	cd. g	.	.
6.	Dover	.	64	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Skagen	.	.	.	.	.	1000·2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
7	Roche's Point	.	.	.	.	.	998·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8.	Deerness	1001·7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Falmouth	.	.	NW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Benson	.	.	.	.	bcv	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9.	Castlebay	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Eskdalemuir	.	.	.	.	.	1007·5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Birr Castle	1007·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Liverpool	.	.	.	.	.	.	.	41	–1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.	.
	Spurn Head	.	47	.	.	.	.	.	.	.	.	.	.	.	.	5	.	.	.	.	.	.	.
10.	Castlebay	.	.	.	.	b.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11.	Pembroke	.	.	.	.	.	1015·1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
13	Lerwick	.	47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Skagen	1017·5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Coruna	1016·4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14.	Dover	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.	.	.	.	.	.	.	.
	Clacton-on-Sea	.	.	WNW	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15.	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	47	.	.	.	.	.
	Benson	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	?45	.	.	.	.	.
	La Hève	1014·6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16.	Glasgow	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	bc. p. c	bc.	.	.	.
	Malin Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	46	.	.	.	.	.
	Holyhead	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10·3

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. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
17.	Deerness								45	+1												
	Pembroke															0.4						
	Nairn				2														q. bep			
	Paris															No Rain	68	46				
19.	Pembroke																	51				
20.	Castlebay						1018.4															
	Falmouth								58	+1												
21.	Deerness															1						
	Spurn Head																	50				
	Corunna			N																		
22.	Glasgow													og								
	Liverpool		55												3	2		51		op	or	
	South Farnborough																	53				
23.	Malin Head			WSW																		
	Spurn Head								50	-6				cm								
24.	Glasgow					ogd																
	Roche's Point																	49				
	Pembroke																?58					
	Scilly																	47				
	Nairn	1010.3																				
	Clacton-on-Sea								55	+4												
25.	Deerness															No Rain						
	Castlebay		51																			
	Holyhead															22						
	Nairn																		p.c.			
	Madrid															0.1						
26.	Valencia																					12.8
	South Farnborough												1									
27.	Malin Head															9						
	Spurn Head																	45				
28.	Dover								55	0												
	Nottingham																	40				
29.	Pembroke						1017.7										?60					
	South Farnborough			SSW																		
30.	Deerness															No Rain						
	Castlebay														2							
	Donaghadee															2						
31.	Valencia																	50				
	Roche's Point																		b.o	cp.o		
	Biarritz						1022.6															

LONDON OBSERVATIONS.

	STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.		STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.
		%	%	Hr.			%	%	Hr.
1.	City			11.7	23	Richmond Park			1.6
	Westminster			12.1	24	City			5.6
2.	Richmond Park			11.5		Richmond Park			7.6
6	" "			0.7	25	" "			9.1
7	Hampstead			1.0	26	" "			7.4
8	Westminster			3.0	27	" "			9.9
	Hampstead			4.0	28	Westminster			6.8
9	"			0.0		Richmond Park			10.5
10	"			0.0	29	Westminster			11.9
	Richmond Park			0.0		Richmond Park			13.3
11	Camden Square			6.8	30	Westminster			11.9
13	City			0.4		Richmond Park			12.3
16	Richmond Park			7.3	31	" "			6.1
18	" "			10.3					
19	" "			10.7					
20	City			12.3					
	Richmond Park			13.2					
21	" "			14.0					
22	Westminster			13.7					
	Richmond Park			13.5					

GALES

Duration and Extreme Force in British Islands

Date.	ADDITIONS.	Date.	CORRECTIONS.
		6.	Malin Head 6th 2a.m.-7a.m NNE 8
		8.	Scilly 7th 4p.m - 10p.m NW 8 Ex Squalls NW 9