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

SECOND QUARTER, APRIL TO JUNE.

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

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

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

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

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

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

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

Issue No. 20,280 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Friday, 1st JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Thursday 31st MAY 1917.

Temperature ranged from 52° at Deerness and Wick to 70° at Southend and Yarmouth. Rain fell in the north and west, 31 mm. at Eskdalemuir. Many western localities had no sunshine, eastern districts considerable records, Dover 13¼ hours.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Thursday 31st MAY UP TO 17 H.

	STATIONS.	Sunshine for 30TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 31st
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	3·0	–	11	54	47	or .	o	0·0
	Banff	3·9	–	2	59	40	6c.or	o.r.o	2·1
	Montrose	?	–	–	58	46	c	o	1·3
	St. Andrews								
	Carnoustie				56	50	6c.o	r	1·6
N.E.	Harrogate	10·9	–	–	61	45	c.6c	c.o	2·1
	Skegness	10·5	–	–	69	44	6c	6c.o	9·8
N.W.	Morecambe	12·3	–	1	61	43			0·8
	Southport	12·0	–	1	60	42	o.c.o	or	0·9
	Leamington Spa								
	Malvern								
	Ross-on-Wye	10·3	–	–	62	47	o	o	0·8
	Rhyl	8·2	–	–	60	43	6c.c	c	0·0
	Colwyn Bay		–	–	60	45	–	–	0·0
	Llandudno		*	*	60	45	c	c	0·0
	Aberystwyth		*	*	59	48	o.c	c.o	0·0
England, E.	Lowestoft	5·8	–	–	64	48	6c.c.6c	6c	10·1
	Felixstowe	10·5	–	–	69	48	6cm	6cm	9·5
	Walton-on-Naze								
	Southend-on-Sea	7·7	–	–	70	51	6v	6	10·7
England, S.E.	Margate	4·0	–	–	69	54	6c	6	9·0
	Hastings	4·4	*	*	62	53	6c.6	6	11·9
	Eastbourne	5·5	–	–	60	54	6	6c.6	10·2
	Seaford	6·5			62	50	6c	6	10·5
	Brighton								
	Worthing	6·6	–	–	62	49	6	6	11·1
	Littlehampton				62	51	–	–	9·5
	Bognor								
	Bournemouth	8·5	*	*	59	46	6c	c	3·1
England, S.W.	Weymouth		*	*	59	47	6c	6c	2·6
	Torquay	12·4	–	–	65	47	o.c	o	0·2
	Paignton								
	Penzance	7·2	–	–	60	48	o.c	o	0·1
	Newquay	4·4	–	–	60	45	c.oq	oq	0·0
	Bude		–	–	60	51	o	o	0·0
	Ilfracombe	10·0	–	–	61	50	o.c	o.c.o	0·0
	Weston-s-Mare	7·0	*	*	61	48	c.o.6c	c.o	0·5

REPORTS FROM FOREIGN STATIONS FOR Thursday 31st MAY

STATIONS.	Evening of 30TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 31st: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.					‡	°F.	°F.					°F	°F
Archangel	999·8	55	NW	3	o	1016·0	o	?	?	SE	2	o	1	*	46
Gorki						1012·6	o	66	+8	S	1	6	–	*	55
Velieki Luki	1013·6	68	SSE	1	6	1013·5	*	70	+2	S	2	6	–	*	61
Hangö	1005·1	52	SSW	2	6c	1004·9	+1	46	−4	SW	3	6	–	*	43
Riga	1010·0	63	SSW	1	o	1012·6	+3	61	?	SSW	1	o	11	*	55
Petrograd	1007·1	72	SSW	3	6c	1006·6	+1	63	+2	WSW	4	o	–	79	61
Moscow	1016·8	73	SSW	3	6	1017·7	+1	68	+9	SW	3	6	–	*	59
Kiev	1019·8	70	SE	2	6	1020·1	+2	68	o	S	1	6	–	*	61
Kharkov	1022·3	64	E	1	6	1025·3	+2	63	+2	–	o	6	–	*	48
Kishinev	1019·9	70	N	1	c									*	
Elisabetgrad	1020·4	68	ESE	1	6									*	
Nicolaiev							*							*	
Odessa	1020·0	73	WSW	2	6									*	
Tarkhankout							*							*	
Soukhoum														*	
Venice	1016·1	64	SE	1	o	1017·7	*	64	o	SW	1	6	–	66	63
Pesaro	1016·1	66	ESE	1	o	1018·5	*	64	+1	S	1	6c	2	72	61
Rome	1018·8	64	SE	1	o	1019·1	*	66	−2	W	1	6c	–	79	61
Viesti	1017·1	66	SSE	2	c	1019·8	*	70	+4	W	1	r	–	72	64
Brindisi	1019·4	66	S	3	6	1018·1	*	64	o	SE	2	6	–	79	63
Cagliari	1014·6	72	NW	4	6	1018·1	*	59	−2	NW	3	6	–	78	50
Palermo	1018·2	66	–	o	o	1018·3	*	66	−13	–	o	c	–	88	57
Tripoli						1015·9	*	68	+2	WSW	1	o	–	?	?
Algiers	1018·6	64	NE	2	6	1018·3	+2	63	+2	E	2	6	–	73	57
Hernösand	998·2	59	–	o	6c	999·4	*	59	+2	S	2	6c	*	*	*
Stockholm	1001·4	63	SW	2	o	1003·1	*	61	o	SW	4	c	*	*	*
Wisby	1005·5	59	SSW	4	o	1008·3	*	59	−9	SW	4	6	*	*	*

ICELAND.	Morning of 31st: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1018·1	30	o	NE	3	o
Reykjavik	1008·2	36	−1	N	4	6
Vestmanna						
Seydisfjord	1011·9	32	−2	NE	2	o
Thorshavn	1007·0	43	−3	SE	3	o

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

1st and 2nd JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 38	11·51	8·4
	3 37	11·51	8·5
Greenwich	3·51	11·58	8·5
	3·50	11·58	8·6
Wick	3·17	12·10	9·2
	3 16	12·10	9·4
Valencia	4·29	12·39	8·48
	4·28	12·39	8·50

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

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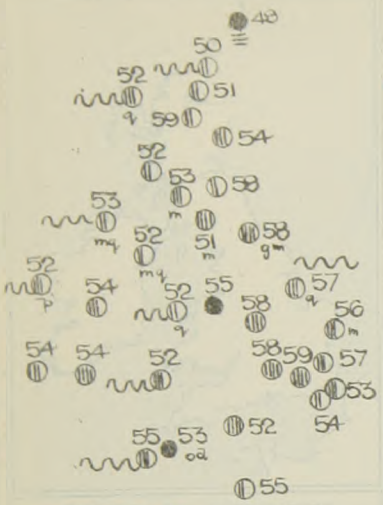
‡ The barometric change is expressed in half-millibars.

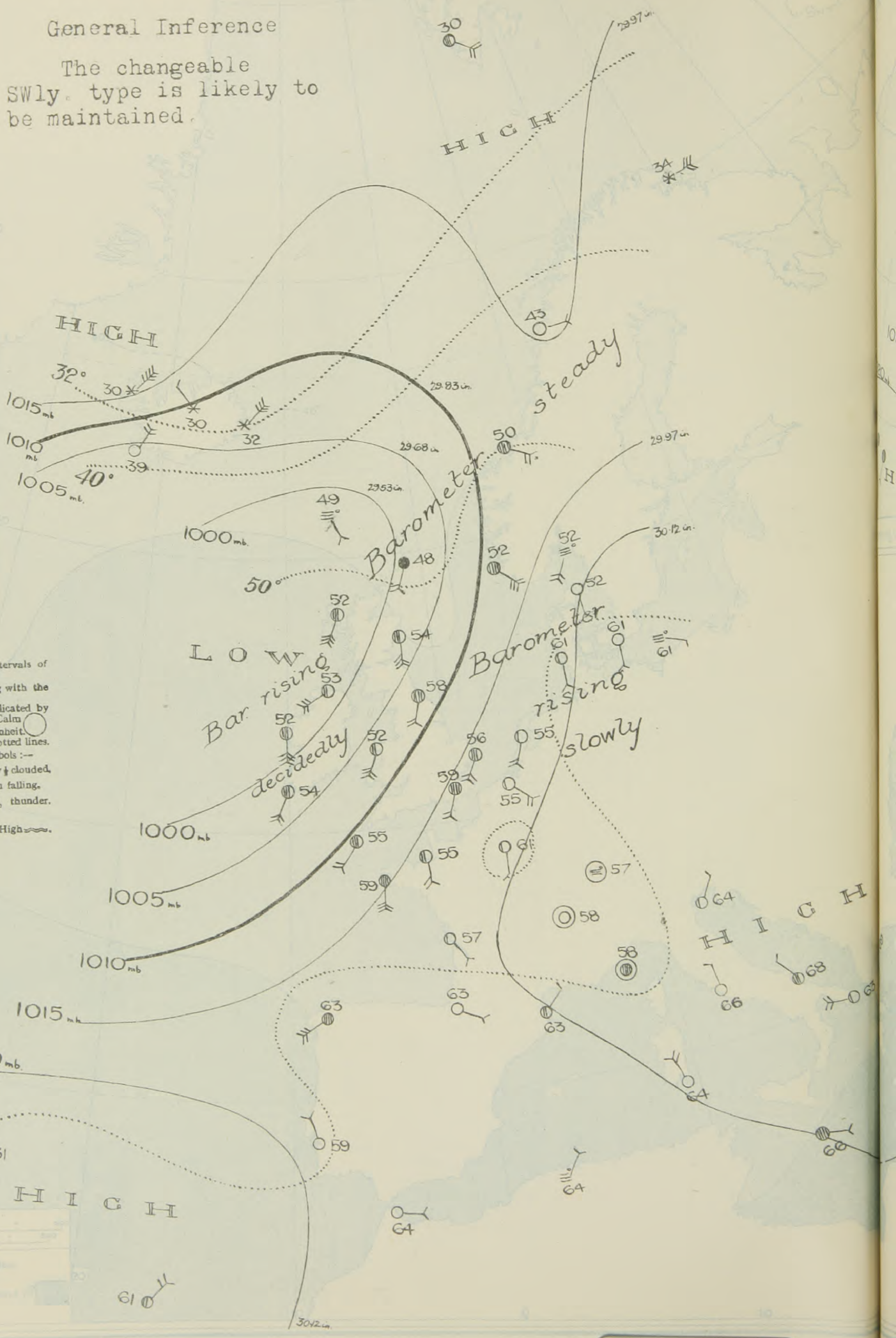
nted at the Meteorological Office, South Kensington, London, S.W.7.
WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

THE MORNING OF FRIDAY, 1ST JUNE, 1917.

General Inference

The changeable SWly. type is likely to be maintained.





EXPLANATION.

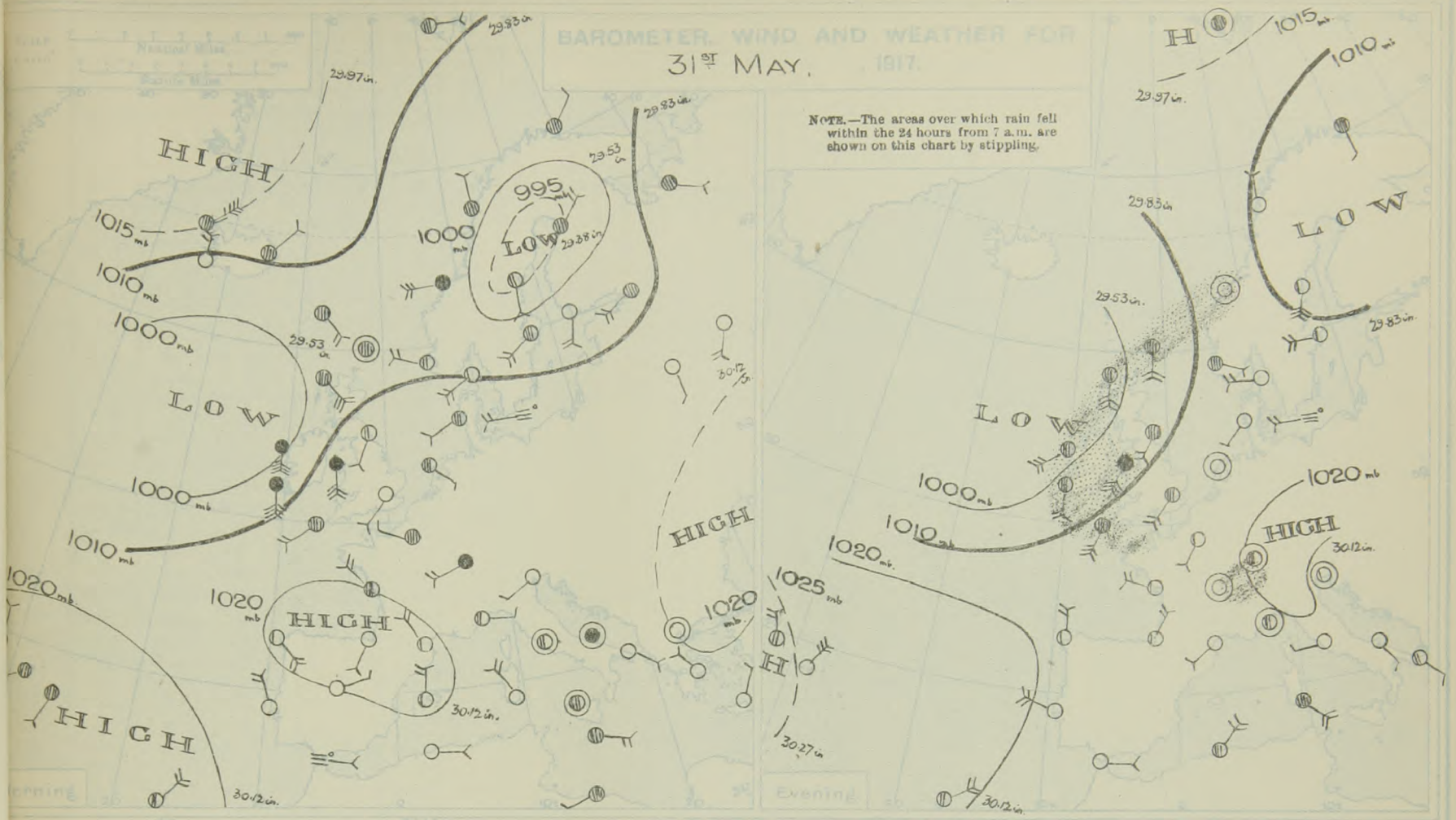
BAROMETER.—Isobars are drawn for intervals of five millibars.

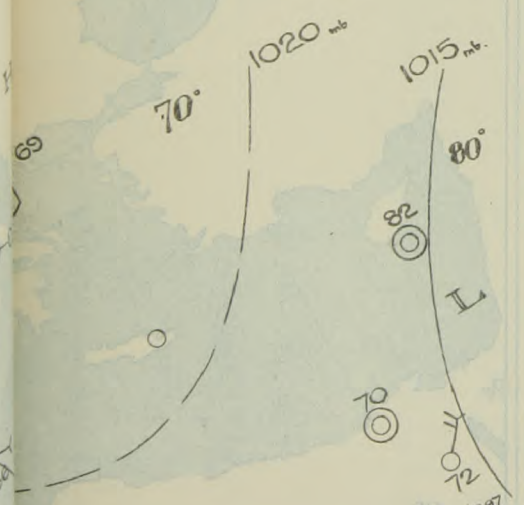
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.





Forecasts 18h. Friday to 18h. Saturday

0 a, b, 1 — Squally, fresh to strong S.-SW. wind; cloudy to dull, some rain, local coast mist or fog; moderate temperature.

2 a, b, 3, 4 a, b, 5 — Moderate S.-SW. breeze; fair to dull, local showers; moderate temperature.

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

11 — Squally, fresh to strong SW. wind; rough sea; cloudy to dull, some rain, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 152. Friday, 1st JUNE.

	STATIONS.	EVENING OF 31st MAY. Baron. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 1st JUNE. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 31st May.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1004·2	51	S	4	om	1000·3	0	48	−1	SSW	3	–	fd	2	2	53	48	c.o	om	fd	*
	Deerness (Orkney)	1001·3	49	SE	6	rf	998·6	*	50	+1	S	6	SW	bc	5	4	52	49	bc.c.or	orf	rf.c.bc	4·2
	Stornoway ...	998·3	54	S	5	cq	996·8	0	52	+3	SSW	6	–	cq	5	14	55	49	c.orq	or.cq	c.or.cq	2·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1003·6	56	SSW	4	om	1003·4	+1	53	+1	SSW	4	S	cm	*	5	56	51	omp	omdr	omp.oc	0·0
	Eskdalemuir ...	1005·9	52	SSW	6	orm	1006·0	+4	51	+1	SSW	6	–	om	*	31	54	49	o.odm	od.orm	orm	0·0
	Malin Head ...	1000·0	57	WSW	2	c	997·0	0	53	0	SW	5	SW	bcmq	5	4	59	50	omqp	bc	bcmq	3·0
	Blacksod Point	997·5	55	SW	5	cp	996·9	+8	52	−1	S	6	S	cp	6	10	58	49	bc	cp	op.orl	*
	Valencia (Cahirciveen)	1000·3	65	S	4	c	1002·8	+4	54	−1	SSW	4	SW	c	4	4	60	52	op.c	c.bc.o.c	c.op.c	3·9
	Roche's Point	1003·8	56	SW	4	r	1005·4	*	54	0	SW	3	–	o	4	14	55	53	rf	rf.rm	or	*
	Birr Castle ...	1002·2	59	SW	2	o	1001·7	*	54	−2	S	2	S	c	*	3	61	51	od	od.o	odp.c	0·0
	Donaghadee ...	1002·7	54	SSW	4	cmqp	1002·6	+2	52	+1	SSW	4	S	bcmq	4	4	55	50	omrq	omqp	ompq	*
	Liverpool (Bidston)	1006·8	58	S	3	o	1008·3	+2	55	+5	SE	3	SE	cr	3	2	59	50	od	o	or	0·0
	Holyhead ...	1006·9	54	SSW	6	orqm	1005·6	+2	52	+1	SSW	5	–	bcqf	5	10	54	51	o.opdm	orqm	or.odm	0·0
	Pembroke (St. Ann's)	1009·5	52	S	5	r	1009·3	+3	52	0	S	3	S	c	5	5	53	49	opd.cd	cp.op	or.c	0·0
	Scilly (St. Mary's)	1011·3	57	SSW	5	om	1010·5	+1	55	0	SW	3	SW	c	5	5	58	51	cm	cm.om	om.cm	0·0
	Falmouth ...	1012·4	56	SW	4	o	1011·1	+2	53	−2	SW	3	–	od	*	9	59	52	oq.oe.o	o.oe	o.or	0·1
	Jersey (St. Aubin)	1016·9	58	S	2	b	1016·7	*	55	+2	S	3	S	bc	3	–	60	52	o.b	b	o.c.bc	9·3
	Portland Bill ...	1015·3	53	SSW	4	c	1014·3	0	52	+1	S	4	S	o	4	–	55	50	c	c	c.o	*
	Dungeness ...	1016·3	54	SW	4	b	1015·7	0	54	0	SW	4	–	bc	3	–	60	52	bc.b	b.bc	bc.o.c	*
	Dover	1015·8	54	SW	5	bc	1016·9	0	53	−4	S	4	SW	c	4	–	63	49	b	bc	bc.c	13·2
	Wick	1000·6	50	SSE	4	m	999·3	−1	51	+2	SSE	4	–	bc	4	1	52	47	c.omd	omp	og.bcm	*
	Nairn	999·8	53	S	5	cqu	1000·0	*	54	+7	SW	2	–	bc	2	–	63	51	cg	cqu	cgq	1·0
	Aberdeen ...	1001·6	52	SSE	4	o	1002·7	0	54	+4	S	5	S	c	2	0·4	55	50	o	op	op.c	1·2
	Leith	1003·3	58	SW	3	o	1004·0	+1	58	+4	SSW	2	SW	bc	2	1	60	53	c.od.o	o.cq.o	ou.q.bc	*
	Tynemouth ...	1005·9	61	SW	3	om	1007·3	0	58	+4	SSW	3	–	omq	3	–	63	53	om	om	omq	*
	Spurn Head ...	1012·7	61	W	4	c	1012·5	0	57	+5	SSW	6	–	cq	5	–	69	52	cm	cm	cq	3·0
	Yarmouth (Gorleston)	1012·7	62	SSW	5	b	1015·8	0	56	+3	SSW	4	–	bcm	3	–	70	53	bcmq	bmq	om.bcm	11·1
	Clacton-on-Sea	1014·6	65	SW	3	b	1016·6	0	57	+2	S	4	–	c	3	–	67	55	c.bc2.b	b	b.bc.c	12·0
	Nottingham ...	1011·8	61	SW	3	o	1012·2	*	58	+7	SW	4	SW	o	*	–	63	51	c.o	c.o	o	2·2
	Benson (Oxon.) ...	1014·3	58	SW	4	o	1014·1	+1	56	+4	SSW	4	–	o	*	–	63	51	c	o	o	*
	Sth Farnborough	1015·2	58	SW	4	o	1015·0	+1	57	+1	SSW	3	–	o	*	–	66	53	b.o	o.c.o	o	7·7
	London (Kew Obsy.)	1015·2	61	SW	4	c	1015·7	+2	59	+3	SSW	3	S	o	*	–	66	63	b.bc.c	cr.c	c.o	10·8
NORTHERN EUROPE.	Spitsbergen ..	1015·2	32	–	0	o	1018·6	+2	30	+2	SE	4	*	c	*	*	32	23				
	Vardö	1006·8	34	S	1	o	1011·1	+3	34	−2	E	5	–	S	3	*	37	32				
	Bodö	1009·9	37	N	2	b	1015·6	0	43	+2	E	2	–	b	2	–	43	36				
	Christiansund ...	1012·6	46	–	0	b	1011·0	0	50	+5	ESE	3	–	o	3	1	48	43				
	Skudesnaes ..	1013·2	50	SE	2	c	1012·6	+1	52	–	SE	5	–	o	4	–	52	48				
	Færder (Xtania Fjord)	1011·2	55	WSW	6	b	1019·0	+3	52	0	SSW	4	–	m	2	–	55	50				
	The Scaw (Skagen)	1013·0	55	W	4	b	1020·0	+3	52	−2	S	2	–	b	2	–	57	43				
	Blaavands Huk	1017·1	57	SW	1	b	1019·0	*	61	+7	S	2	–	b	*	–	61	48				
	Copenhagen ...	1016·4	63	NNW	2	b	1022·4	+3	61	+4	S	2	–	b	*	–	64	52				
	Bornholm ...	1015·8	52	W	3	m	1022·6	+3	61	+9	ESE	1	–	m	0	–	61	50				
FRANCE, &c.	The Helder ...	1015·4	63	–	0	b	1018·3	+1	55	+5	SSW	3	SW	b	1	–	64	50				
	C. Gris Nez ...	1016·8	55	SW	4	b	1017·5	0	59	+5	S	3	*	bc	2	–	59	50				
	La Hève	1009·0	58	WSW	3	bc	1016·4	*	54	–	S	4	*	b	2	–	63	?				
	Brest (St. Mathieu)	1016·8	57	SSW	4	o	1015·5	0	58	+4	S	5	*	o	4	–	63	52				
	Rochefort (Ile d'Aix)	1019·9	63	WNW	3	b	1018·4	+1	57	−2	SSE	2	*	b	*	–	72	54				
	Biarritz	1017·9	63	NNE	3	b	1017·4	0	63	+8	ESE	2	*	b	2	–	66	54				
	Paris	1017·8	66	WSW	2	b	1019·6	0	61	0	S	1	–	b	*	–	73	46				
	Belfort	1020·4	59	–	0	c	1022·2	*	57	+4	–	0	*	m	*	4	60	51				
	Lyons	1018·6	65	–	0	b	1020·7	*	58	−2	–	0	*	b	*	–	70	50				
	Nice	1019·5	58	–	0	c	1022·3	+3	55	−1	–	0	*	c	3	Trace	68	54				
	Perpignan ...	1018·6	70	SW	2	b	1019·8	+1	63	+1	NE	1	*	bc	*	–	73	50				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1019·4	63	N	3	b	1018·4	0	63	+9	SW	5	–	c	2	–	63	54				
	Madrid														*	–						
	Lisbon	1016·7	68	WNW	4	b	1019·6	+1	59	−2	NNW	2	–	b	2	–	73	57				
	Azores (Horta) ...	1025·1	*	NNW	3	bc	1025·1	+1	55	−6	–	0	*	b	1	5	68	55				
	Madeira	1020·2	64	NE	4	bc	1021·9	0	61	0	NE	3	–	bc	3	–	68	61				
	Gibraltar	1018·9	66	E	2	b	1018·9	*	64	+5	E	2	*	b	4	–	74	58				
	Malta	*	*	*	*	*	1020·0	+1	66	−2	ESE	2	–	o	2	–	70	64				
	Limassol	*	*	*	*	*	1015·2	0	52	+7	–	0	–	b	0	–	84	55				
	Alexandria ...	1016·4	68	–	0	b	1017·8	+1	70	0	–	0	–	b	0	–	75	64				
	Cairo (Helwan) ...	1014·3	75	NE	4	b	1015·9	+2	72	+6	NE	3	–	b	*	–	88	63				

GALES.
Duration and Extreme Force in British Islands.

ESKDALEMUIR

Extreme: SSW 8; 1st at 4h.
Gusts, 24 m/s.

LONDON OBSERVATIONS.

	Humidity. 15 h. 31st May	Humidity. 9 h. 1st June	Sunshine for 31st May	24 Hours ended 9 h. 1st JUNE. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	60	70	11.7	70	53	47	—	b	b.bc	c.o.c
CITY (Bunhill Row)	*	*	11.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	56	72	11.0	68	55	53	–	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	54	68	10.1	72	55	52	–	b	bc	*
HAMPSTEAD (Reservoir)	*	78	11.1	65	51	42	–	c	bc	c
S. KENSINGTON (Museum Grounds)	*	59	10.6	68	54	50	Trace	bc	bc	c.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 31st MAY.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
2314	30.7	86

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

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

Issue No. 20,281. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Saturday 2nd June

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Friday 1st June 1917.

Temperature maintained a moderate level over the country generally. Showers fell in the west, and Malin Head had a thunderstorm. Sunshine was again very variable, none in places, 11·3 hours at Deerness

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Friday 1st June UP TO 17 H.

	STATIONS.	Sunshine for 31st	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 1st
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·0	2	1	60	51	7cp	0	2·7
	Banff	2·1	–	–	67	54	c.7c	7c.c	7·5
	Montrose	1·3	3	*	65	53	7	c	6·0
	St. Andrews		1	–	66	53	7	c	7·7
	Carnoustie		*	*	61	55	7c	0	8·2
Eng. N.E.	Harrogate	2·1	–	6	62	55	0.c	0p	0·1
	Skegness	9·8	–	–	68	54	7c.0	7c.0	2·3
Eng. N.W.	Morecambe	0·8	4	0·3	62	52			0·7
	Southport	0·9	1	0·2	62	54	0r.0	0.c	0·5
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0·8	–1	6	58	54	0r	7c.7	0·0
Wales.	Rhyl	0·0	3	0	63	52	p.c	c.7c	2·7
	Colwyn Bay		–	–	63	45	7c	7c	2·2
	Llandudno		*	*	62	53	c.c	c	1·7
	Aberystwyth		*	*	59	53	r.0.c	7c.c	3·0

	STATIONS.	Sunshine for 31st	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 1st
			Mm	Mm.	F.	F.			Hr.
England. E.	Lowestoft	12·1	–	–	62	53	0.c	c.0.c	1·9
	Felixstowe	11·3	–	–	64	55	7c	7c	5·2
	Walton-on-Naze		–	–	62	55	7c	7c	5·7
	Southend-on-Sea	12·5	–	–	69	55	7c.c.0	7c.c.0	2·8
England. S.E.	Margate	11·1	–	–	68	51	c	c	2·3
	Hastings	14·2	*	*	62	52	7c.7	7	7·7
	Eastbourne	11·8	–	–	65	53	0.7c	7c	7·6
	Seaford	11·0	–	–	64	52	7	7.7c	8·1
	Brighton	11·0	–	–	62	53	7	7	10·3
	Worthing	12·4	–	–	64	52	7c	7c.7	11·1
	Littlehampton		–	–	70	54	–	–	8·5
	Bognor								
	Bournemouth	3·1	*	*	59	53	0	0	0·0
England. S.W.	Weymouth		*	*	60	53	0.c	c.or	0·0
	Torquay	0·2	1	5	59	54	or	0.c.7c	1·5
	Paignton								
	Penzance		11	1	58	53	or.c	7c	3·0
	Newquay	0·0	7	2	60	51	p	p.7q	4·2
	Bude								
	Ilfracombe	0·0	12	5	62	52	r.0	r.7c	3·0
	Weston-s-Mare	0·5	*	2	61	53	r.c	r.7c	1·5

REPORTS FROM FOREIGN STATIONS FOR Friday 1st June

	STATIONS.	Evening of 31st May: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 1st June: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel						1000·6	0	55	?	S	3	7c	6	*	50
	Gorki	1018·3	66	WSW	1	0									*	
	Velieki Luki						1017·9	*	59	–11	–	0	0	13	*	54
	Hangö						1019·0	+5	48	+2	WNW	2	7	–	*	43
	Riga						1020·4	+4	59	–2	N	1	7	–	*	54
	Petrograd	1009·5	56	W	4	0	1013·5	+5	52	–11	WNW	5	7	–	?	50
	Moscow	1015·8	68	S	2	0	1016·7	0	64	–4	W	2	c	1	*	59
	Kiev	1019·8	72	S	3	7	1021·6	+1	68	0	W	3	7	–	*	61
	Kharkov						1024·6	+1	63	0	–	0	7	–	*	48
	Kishinev														*	
	Elisabetgrad	1021·1	68	SE	2	7c									*	
	Nicolaiev							*							*	
	Odessa	1021·2	68	SSW	2	7									*	
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1019·5	64	–	0	7	1021·3	*	64	0	NE	1	7	Trace	70	59
	Pesaro	1019·9	66	S	1	7c	1021·9	*	66	+2	NW	1	7	–	75	57
	Rome	1019·7	64	W	1	7	1021·3	*	66	0	N	1	7	–	75	55
	Viesti	1019·1	66	SSE	1	7	1022·1	*	68	–2	NW	1	c	–	73	64
	Brindisi	1019·3	?	SW	1	7c	1020·2	*	63	–1	WNW	4	7	–	77	63
	Cagliari	1016·6	70	SE	4	0	1020·6	*	64	+5	NW	3	7	–	77	55
	Palermo						1020·5	*	66	0	–	0	0	–	79	61
	Tripoli						1017·3	*	68	0	NE	1	c	–	72	63
	Algiers	1018·1	64	NE	4	c	1017·9	+1	64	+1	NNE	2	m	–	70	61
SWEDEN.	Hernösand	1007·9	54	SSW	6	7	1019·8	*	52	–7	W	2	7	*	*	*
	Stockholm	1011·1	63	W	4	7	1020·7	*	63	+2	SSE	2	7	*	*	*
	Wisby	1013·1	55	WSW	2	7	1022·0	*	54	–5	W	2	7	*	*	*

ICELAND.	Morning of 1st June: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1015·1	30	0	NE	7	S
Reykjavik	1009·6	39	+3	NNE	4	7
Vestmanna						
Seydisfjord	1007·4	32	0	NE	6	S
Thorshavn	997·5	49	+5	SSE	2	m

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

2nd and 3rd June 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	3·37 / 3·36	11·51 / 11·51	8·5 / 8·6
Greenwich	3·50 / 3·49	11·58 / 11·58	8·6 / 8·7
Wick	3·16 / 3·15	12·10 / 12·10	9·4 / 9·6
Valencia	4·28 / 4·27	12·39 / 12·39	8·50 / 8·51

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

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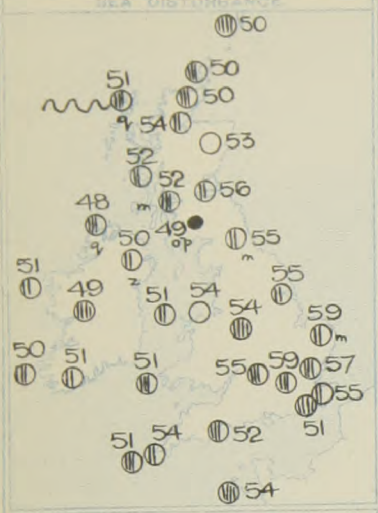
‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 2nd JUNE, 1917.

TEMPERATURE WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

General Inference

No change of importance is indicated.

EXPLANATION.

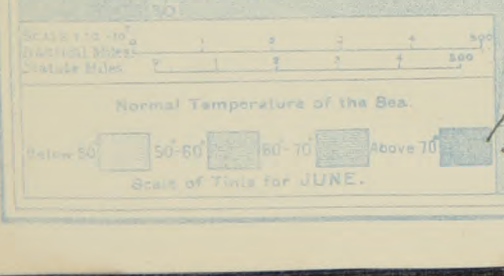
BAROMETER.—Isobars are drawn for intervals of five millibars.

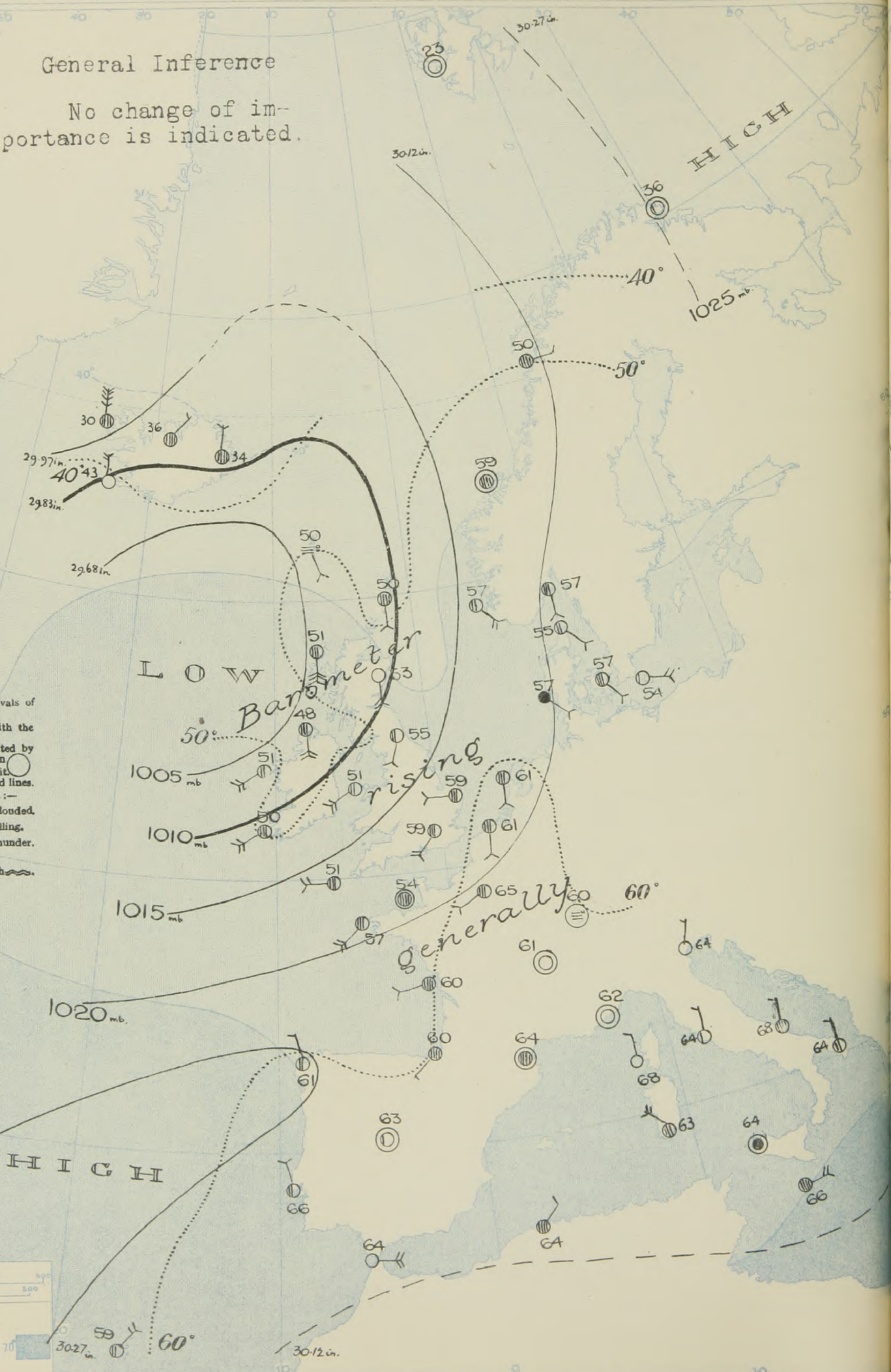
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

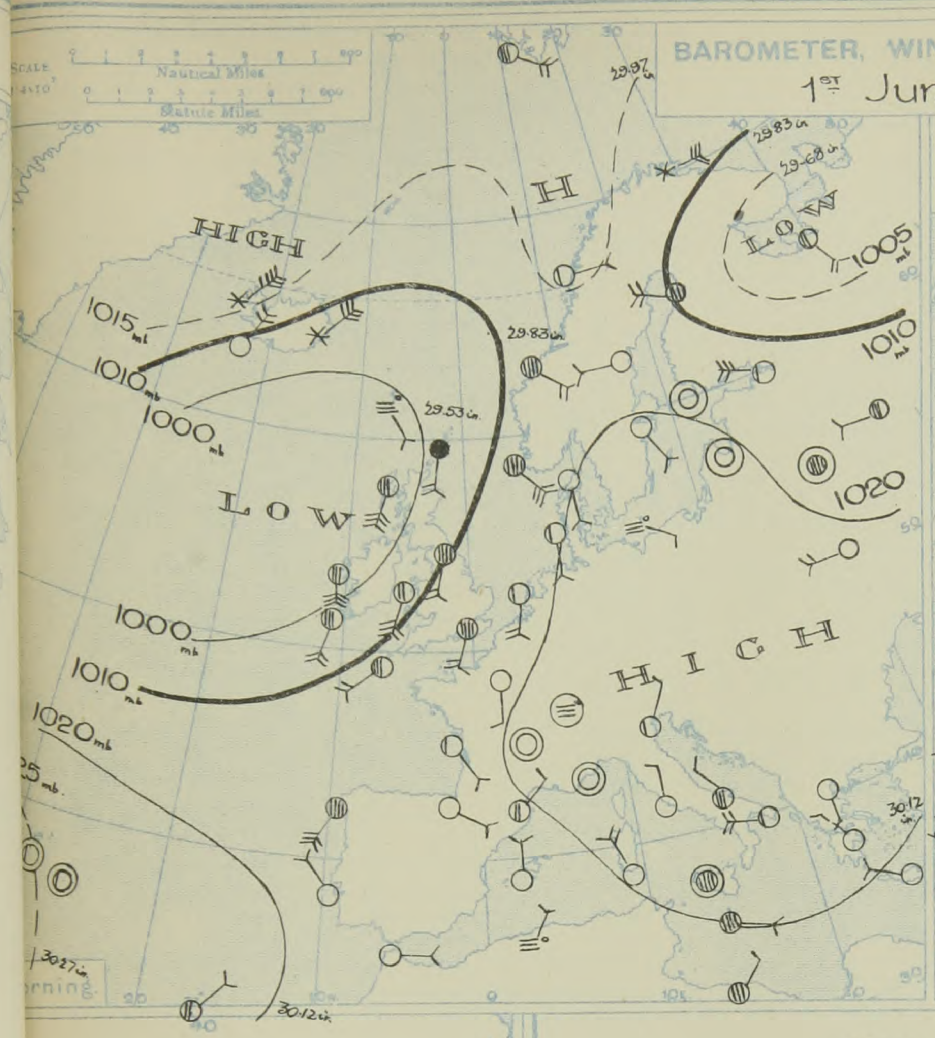
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊤R, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

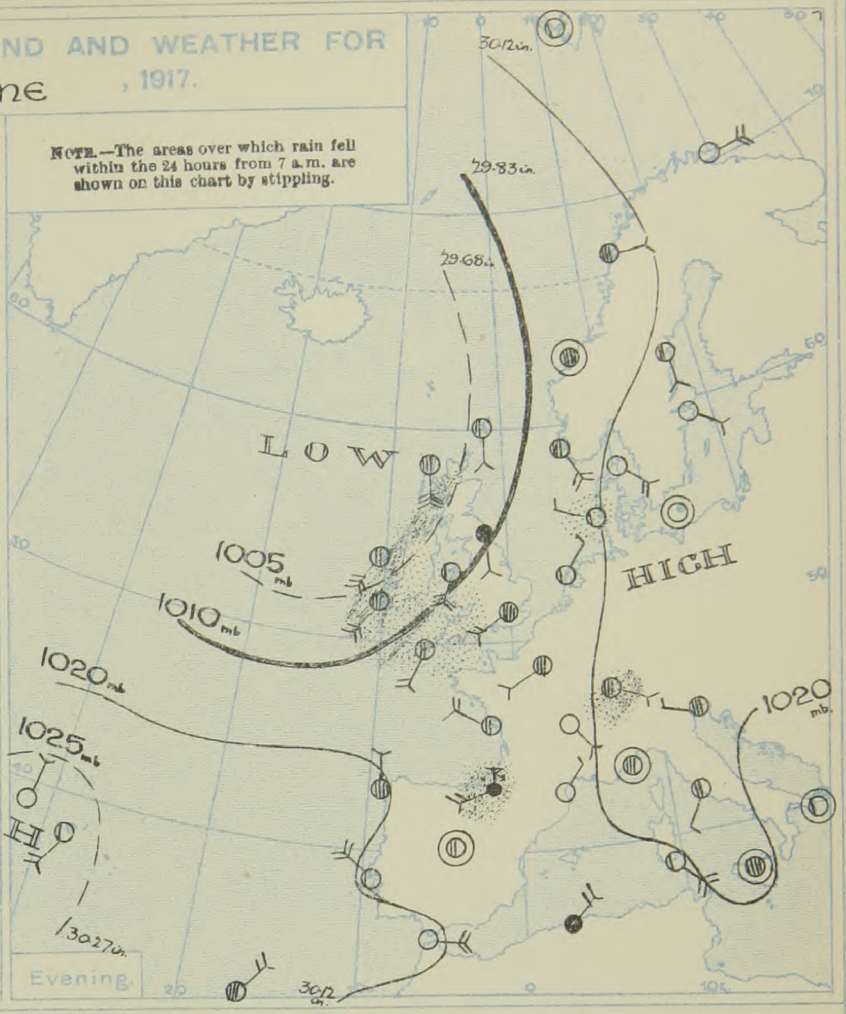


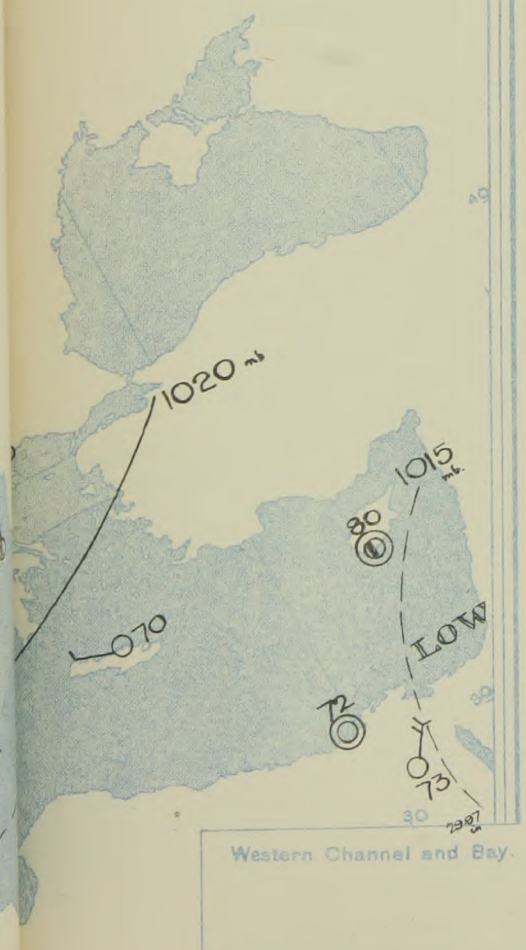


BAROMETER, WIND AND WEATHER FOR 1st June, 1917.



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





Western Channel and Bay.

Forecasts 18h. Saturday to 18h. Sunday

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

Light to moderate breeze between S. and W; generally fair to fine; moderate temperature.

11

Moderate SW. breeze; sea moderate; variable cloud, local mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 153. Saturday, 2nd JUNE.

	STATIONS.	EVENING OF 1st June. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 2nd June. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for 1st June.
			°F.						°F	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1005·2	52	S	2	bcm	1008·9	+1	50	+2	S	2	-	cim	2	-	55	48	f.bcm	bcm	cm	*
	Deerness (Orkney)	1004·4	53	SE	4	bc	1007·4	*	50	0	S	4	SW	c	4	-	58	48	bc	bc	bc.c	11·3
	Stornoway ...	1001·9	56	S	6	cq	1005·7	+2	51	-1	S	6	-	cq	5	-	58	47	oq	o.cq	c.o cq	7·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1006·3	57	S	5	bc	1009·8	+2	52	-1	SSW	3	-	cim	*	1	62	49	cm.op	c.op.bc	bc.c.op	6·2
	Eskdalemuir ...	1008·5	53	SSW	3	o	1011·6	+2	49	-2	SSW	5	-	op	*	5	59	47	om.c	bc.c.o	op.oq.o	7·8
	Malin Head ...	1002·8	53	SW	3	c	1008·9	+2	48	-5	S	4	SW	cq	4	2	60	46	bcq	cptl	cq	6·6
	Blacksod Point	1001·5	54	SSW	5	bc	1006·1	+4	51	-1	SW	4	S	bc	4	3	56	48	omr	bc	cp.bcp	*
	Valencia (Cahirciveen)	1006·8	53	SW	4	c	1011·1	+4	50	-4	SW	4	SW	c	4	4	58	46	cp	c.bcp	bc.cpq	9·3
	Roche's Point	1007·9	56	SSW	4	c	1012·4	*	51	-3	SSW	2	W	bc	3	2	59	48	op.c	c	c.bc.cp	*
	Birr Castle ...	1004·8	55	SW	2	c	?1010·0	*	49	-5	?SSW	2	-	o	*	3	61	47	cp	cp	c.op	5·1
	Donaghadee ...	1005·6	54	SSW	4	bcqp	1009·3	+2	50	-2	SW	4	SW	bcz	3	1	60	46	bmqp	bcqp	bcmp	*
	Liverpool (Bidston)	1009·8	63	S	3	b	1013·7	+2	54	-1	S	1	-	b	2	4	64	49	or	bc	bp.bc	2·1
	Holyhead ...	1008·7	55	SSW	5	bq	1012·5	+2	51	-1	SW	4	SW	bc	3	trace	58	49	c.o.c	c.o.bc.b	c.bc.bw	7·4
	Pembroke (St. Ann's)	1010·9	53	S	4	bc	1014·2	+2	51	-1	SSW	3	SW	c	3	1	54	49	c.bc	bc	bcpcp	7·5
	Scilly (St. Mary's)	1012·1	57	SSW	3	bc	1016·5	+1	51	-4	W	3	W	c	4	1	60	49	cm.bcm	bcm	bcp.cp	9·9
	Falmouth ...	1012·9	57	SSW	4	cz	1016·8	+3	54	+1	SW	3	-	bc	*	2	60	49	or.o.c	cq.bc.c	c.bc.c	3·2
	Jersey (St. Aubin)	1015·7	63	SW	3	o	1019·6	*	54	-1	?	3	-	o	3	1	64	50	bc.c.o	o.c.o	opo	4·7
	Portland Bill ...	1014·5	52	SSW	3	c	1016·5	+4	52	0	SSW	3	SW	c	3	2	55	50	or	rf.c	cbc	*
	Dungeness ...	1015·4	56	SW	2	bc	1018·5	+4	51	-3	SW	2	-	o	1	-	61	51	bc	bc	bc.o	*
	Dover	1016·3	60	-	0	c	1019·2	+3	55	+2	SW	4	W	bc	2	-	61	49	c.bc.c	c.bc.c	bc	4·2
	Wick	1004·6	52	SE	2	bc	1007·8	+3	50	-1	S	2	-	c	3	0·4	60	48	bcm	bcm	bcm	*
	Nairn	1003·6	62	SW	2	cg	1008·0	*	54	-5	-	0	-	bc	1	0·2	66	46	bc.cq	cq	cp	4·8
	Aberdeen ...	1006·9	57	SSE	4	c	1009·9	+2	53	-1	S	3	S	b	2	-	63	50	bcq	bcq.c	bc.b	10·3
	Leith	1006·7	61	S	4	c	1009·6	+1	56	-2	SW	2	SW	bc	1	-	62	51	b	b.bcq.c	cq,bbc	*
	Tynemouth ...	1009·6	57	S	2	omd	1012·4	+2	55	-3	SSW	2	S	bcm	3	1	62	51	omp	omqp	cm	*
	Spurn Head ...	1012·9	63	SSW	5	cq	1016·1	+1	55	-2	WSW	4	-	bc	4	-	67	53	cq	cq	c	0·4
	Yarmouth (Gorleston)	1014·9	61	SSW	4	c	1017·3	+2	59	+3	W	2	-	bcm	2	-	70	54	cmq	cmq	bcm	0·0
	Clacton-on-Sea	1015·7	63	S	3	c	1018·0	+2	57	0	W	3	W	c	2	-	65	56	c	c.bc.c	c	7·1
	Nottingham ...	1012·6	61	SSW	4	c	1015·7	*	54	-4	SW	3	SW	o	*	trace	65	49	o.c	op.c	cp.b	0·1
	Benson (Oxon.) ...	1013·7	61	SSW	4	o	1016·2	+3	55	0	SW	4	-	c	*	trace	64	50	o	o	op.c	*
	Sth Farnborough	1014·5	62	SSW	3	o	1017·4	+3	56	-1	SW	4	SW	bc	*	trace	64	50	o	o	c.or.bc	0·7
	London (Kew Obsy.)	1015·0	65	SW	3	ov	1018·1	+3	59	0	SW	3	-	c	*	-	67	52	o	o ov	or.b.oc	1·9
NORTHERN EUROPE.	Spitsbergen ...	1023·0	27	-	0	b	1023·8	+1	23	-7	-	0	*	b	*	*	32	14				
	Vardö	1022·6	34	E	4	b	1025·0	0	36	+2	-	0	-	b	2	*	36	32				
	Bodö	1015·6	52	E	2	c	1019·1	+3	50	+7	E	1	-	o	1	?	52	43				
	Christiansund ...	1012·4	59	-	0	o	1017·1	+2	59	+9	-	0	-	o	2	-	64	50				
	Skudesnaes ...	1016·2	54	SSE	4	c	1016·8	0	57	+5	SE	3	-	bc	4	-	54	48				
	Færder (Y'landsFjord)	1021·8	55	SSE	2	o	1022·7	+1	57	+5	S	2	-	c	1	-	57	52				
	The Scaw (Skagen)	1021·2	57	SSE	3	b	1022·4	+1	55	+3	SE	2	S	bc	2	-	59	52				
	Blaavands Huk	1019·8	63	WNW	1	b	1019·5	*	57	-4	SE	2	-	p	*	Trace	66	52				
	Copenhagen ...	1002·7	63	S	3	b	1022·7	0	57	-4	SE	2	-	c	*	-	66	54				
	Bornholm ...	1023·4	59	-	0	b	1022·7	0	54	-7	ESE	3	-	b	0	-	61	46				
FRANCE, &c.	The Helder ...	1017·3	64	NE	1	b	1017·0	0	61	+6	S	2	SW	c	0	-	68	56				
	C. Gris Nez ...	1016·6	60	WSW	1	o	1019·1	+3	53	-6	WSW	3	*	c	2	-	64	52				
	La Hève	1017·8	61	SW	3	bc	1019·8	*	54	0	WSW	3	*	b	2	-	68	50				
	Brest (St. Mathieu)	1016·7	59	SW	3	bc	1020·4	+3	57	-1	SW	4	*	c	3	-	59	54				
	Rochefort (Ile d'Aix)	1017·5	63	NW	3	bc	1022·6	+3	60	+3	WSW	2	*	o	*	-	79	57				
	Biarritz	1018·4	61	WSW	3	tlr	1023·0	+2	60	-3	SW	1	*	o	4	13	72	57				
	Paris	1016·7	72	SW	1	bc	1020·6	+2	65	+4	SW	2	SW	c	*	-	77	55				
	Belfort	1021·4	59	E	2	c	1023·9	*	60	+3	-	0	*	m	*	1	73	50				
	Lyons	1017·9	68	SSE	2	b	1022·4	*	61	+3	-	0	*	b	*	-	76	?53				
	Nice	1021·5	60	-	0	c	1016·8	+2	62	+4	-	0	*	b	1	-	72	54				
	Perpignan ...	1019·4	72	NE	1	b	1023·1	+3	64	+1	-	0	-	o	*	-	75	54				
	Sanguinaire ...	1021·4	67	N	2	m	1022·8	*	68	-	N	1	*	b	2	-	75	61				
SOUTHERN STATIONS.	Corunna	1020·6	57	N	2	o	1026·1	+4	61	-2	NNW	1	-	bc	1	4	64	52				
	Madrid	1018·1	77	-	0	bc	1022·2	+6	63	-	-	0	-	b	*	?	79	55				
	Lisbon	1019·6	66	NW	4	b	1022·4	+1	66	+7	NNW	2	-	bc	*	-	73	59				
	Azores (Horta) ...	1026·9	*	SW	3	b	1024·8	0	59	+4	SSW	5	*	b	2	-	68	55				
	Madeira	1022·0	68	NE	3	c	1023·5	0	59	-2	NE	3	-	bc	3	-	68	59				
	Gibraltar	1021·7	64	E	4	b	1022·3	*	64	0	E	4	*	b	3	-	71	62				
	Malta	*	*	*	*	*	1021·2	+2	66	0	E	3	-	o	2	-	72	64				
	Limassol	*	*	*	*	*	1015·1	+1	80	-2	-	0	-	b	0	-	90	55				
	Alexandria ...	1017·6	68	-	0	b	1017·8	+1	72	+2	-	0	-	b	0	-	77	66				
	Cairo (Helwan) ...	1014·6	77	NE	5	b	1015·5	+2	73	+1	NE	3	-	b	*	-	91	64				

GALES.
Duration and Extreme Force in British Islands.

ESKDALEMUIR

Gusts: 20 m/s, 1st, (Morning)

NOTE

SOLAR HALO was observed at:-

DEERNESS
This morning, 2nd, at 7h.

CLACTON
Yesterday, at 17h.

KEW
Yesterday, at 13h.

LONDON OBSERVATIONS.	Humidity. 15 h. 1st	Humidity. 9 h. 2nd	Sunshine for 1st	24 Hours ended 9 h. 2nd. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	63	64	3.8	68	50	42	-	c.o	c.bc	c.o
CITY (Bunhill Row)	*	*	1.7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	59	59	3.3	68	53	49	-	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	58	54	3.3	70	52	49	-	c	c	*
HAMPSTEAD (Reservoir)	*	93	2.7	64	49	39	-	bc	bc	bc
S. KENSINGTON (Museum Grounds)	*	61	1.2	66	53	48	-	bc	bc.c	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 1st June.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1422	24.3.	67.5.

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

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

Issue No. 20,282. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Sunday 3rd June

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Saturday 2nd JUNE 1917.

Temperature rose to 65° and above at some southern stations, but remained below 60° over large areas in the west and north. Showers fell in various localities, mostly in the west, but over the Kingdom generally there was much bright sunshine.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Saturday 2nd JUNE UP TO 17 H.

	STATIONS.	Sunshine for 1st	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 2nd
			Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	2·7	1	3	56	48	c.bc	p	7·2
	Banff	7·6	–	–	64	50	bc	bc.c	7·2
	Montrose	6·9	*	*	63	52	b	b	8·8
	St. Andrews								
	Carnoustie				61	53	b	bc.o.c	9·0
Eng. N.E.	Harrogate	0·3	2	–	62	50	c.bc	c.o	5·5
	Skegness				66	52	o.bc	o.bc.o	7·6
Eng. N.W.	Morecambe								
	Southport	2·4	–	0·4	61	51	c.b.bc	c.or.ob	6·8
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	1·4	–	1	60	51	c.bc	bc.b	4·6
Wales.	Rhyl								
	Colwyn Bay								
	Llandudno		*	*	59	50	bc	c	9·0
	Aberystwyth		*	*	55	51	r.o.c	b.bc	4·5

	STATIONS.	Sunshine for 1st	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 2nd
			Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft								
	Felixstowe	5·3	–	–	68	56	bc	bc9	10·2
	Walton-on-Naze								
	Southend-on-Sea	3·9	–	–	67	54	bc.c	c.bc.v	9·5
England, S.E.	Margate	2·3	–	–	67	50	bc.b	b	8·6
	Hastings	7·7	*	*	62	51	o.bc.b	b	8·0
	Eastbourne	9·1	–	–	62	52	b	b	9·8
	Seaford				65	47	bc	bc	6·1
	Brighton		–	–	60	52	o.c	c.bc	5·0
	Worthing	11·7	trace	–	62	53	bc	bc.b	6·3
	Littlehampton				58	52	–	–	7·1
	Bognor								
	Bournemouth	0·0	22	*	61	51	c.	bc	7·0
England, S.W.	Weymouth		*	*					
	Torquay	1·5	trace	–	59	53	o.c	c.bc.b.bc.c	4·8
	Paignton				52	48	bc	p.bc	7·0
	Penzance	4·3	1	–	60	51	o.bc	bc	6·0
	Newquay								
	Bude		5	1	60	49	o	b	5·7
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Saturday 2nd JUNE

	STATIONS.	Evening of 1st: Barom. Millibars at M.S.L.	Temp. F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 2nd: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max. F.	Temp. Min. F.
RUSSIA 7 a.m. and 9 p.m. Local Time	Archangel	1011·7	43	NW	5	0	1019·1	+5	43	-12	N	2	0	1		39
	Gorki	1021·2	54	–	0	bc	1025·5	+1	59		E	1	b	30		50
	Velieki Luki	1023·0	57	–	0	b	1026·4		55	-4	–	0	b	–		48
	Hangö	1025·0	52	WNW	1	b	1027·5	+2	52	+4	WNW	1	b	–		39
	Riga	1024·6	57	NE	1	b	1025·7	-1	64	+5	ESE	1	b	–		52
	Petrograd	1022·1	52	NW	3	b	1027·0	+2	55	+3	NNW	1	b	–	61	48
	Moscow	1018·0	64	WNW	3	b	1021·9	+2	55	-9	N	3	b	1		52
	Kiev	1021·3	72	W	2	bc	?	0	70	+2	NW	2	b	–		61
	Kharkov						1020·0	+1	64	+1	W	1	o	–		57
	Kishinev	1021·1	72	S	13	b	1022·1	+1	63		NW	1	b	–		57
	Elisabetgrad	1021·6	68	–	0	b	1021·9	0	72		NW	2	bc	–		59
	Nicolaiev	1023·4	82	N	2	bc	1023·4		70		N	2	b	–		61
	Odessa	1022·9	72	W	2	b	1023·4	+1	70		NNW	2	b	–		64
	Tarkhankout															
	Soukhoum															
MEDITERRANEAN.	Venice	1020·7	61	NW	1	c	1023·0		64	0	NNE	1	b	trace	75	51
	Pesaro						1025·5		64	-2	N	2	bc	–	72	51
	Rome	1021·8	66	SW	1	bc	1023·9		64	-2	N	1	b	–	77	55
	Viesti	1019·9	68	NNW	1	bc	1023·7		68	0	N	1	o	–	81	63
	Brindisi	1019·1	70	SW	1	b	1021·8		64	+1	N	1	bc	–	72	63
	Cagliari	1019·4	70	SE	4	b	1020·6		63	-1	NW	3	c	–	77	52
	Palermo	1021·1	68	–	0	o	1023·1		64	-2	–	0	r	–	77	63
	Tripoli						1022·1		70	+2	NE	3	o	trace	73	68
	Algiers	1018·3	64	NE	3	r	1020·6	+2	64	0	NE	1	o	trace	70	63
SWEDEN.	Hernösand	1020·8	46	S	2	bc	1022·1		52	0	W	2	b			
	Stockholm	1022·8	66	SE	2	b	1025·3		66	+3	SSE	2	b			
	Wisby	1025·2	55	N	2	b	1024·3		63	+6	E	2	b			

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb. F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Weather
Isafjord	1018·3	30	0	N	8	0
Reykjavik	1009·5	43	+4	N	3	b
Vestmanna						
Seydisfjord	1011·0	34	+2	N	2	0
Thorshavn	1005·3	50	+1	SSE	2	m

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

3rd and 4th JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	3·36	11·51	8·6
	3·35	11·51	8·7
Greenwich	3·49	11·58	8·7
	3·48	11·58	8·8
Wick	3·15	12·10	9·6
	3·14	12·10	9·7
Valencia	4·27	12·39	8·51
	4·26	12·39	8·52

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

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 3RD JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

General Inference

The secondary depression in the west will occasion some rain in places, but generally the conditions will be influenced by the continental anticyclone

HIGH

LOW

Barometer falling slightly

Bar. falling

rising

generally

HIGH

HIGH

1025mb

1020mb

1015mb

1020mb

1015mb

1025mb

1030mb

1025mb

30·42in.

30·12in

2997in.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

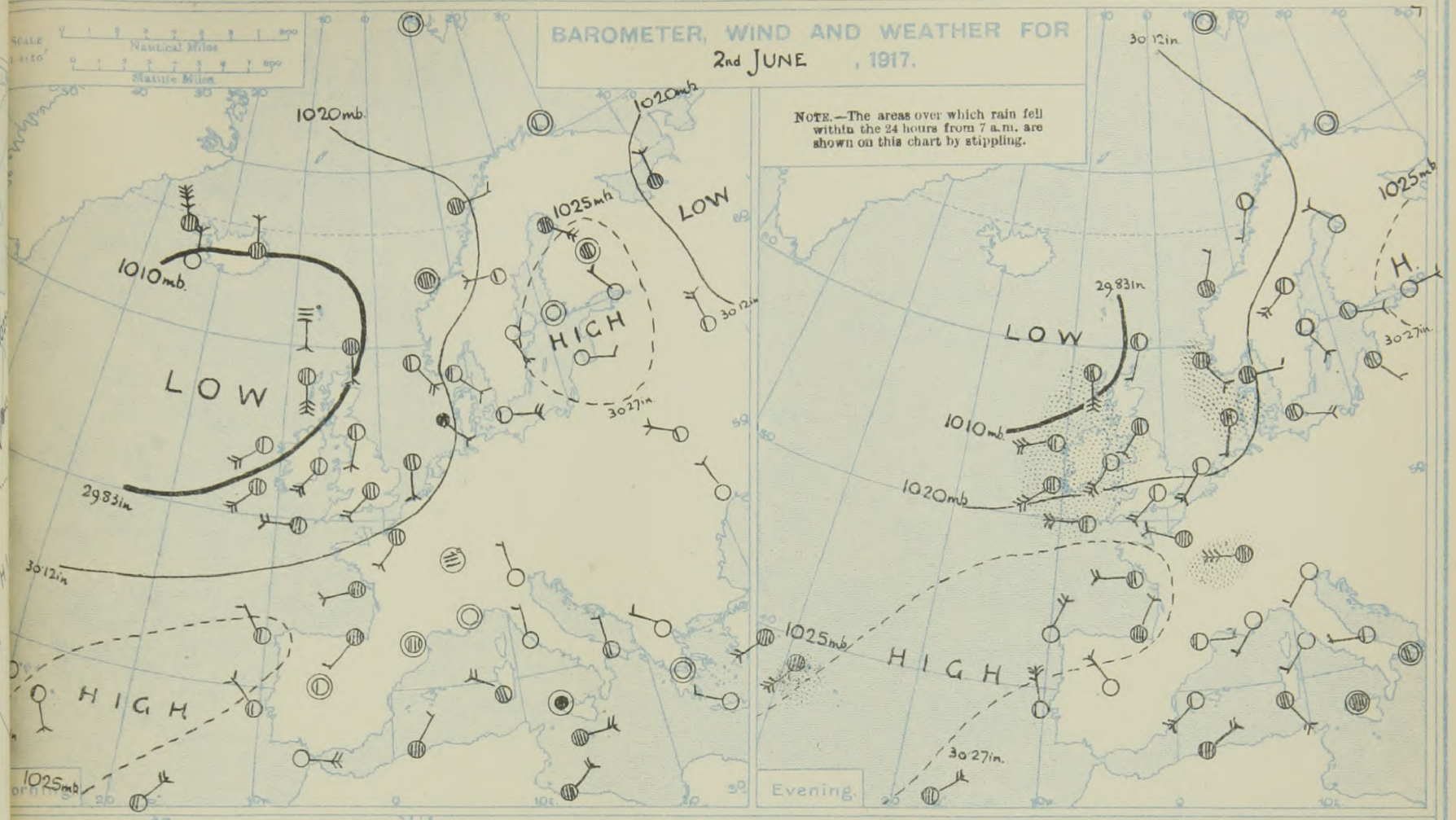
Scale 1:12·10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 2 3 4 500

Normal Temperature of the Sea

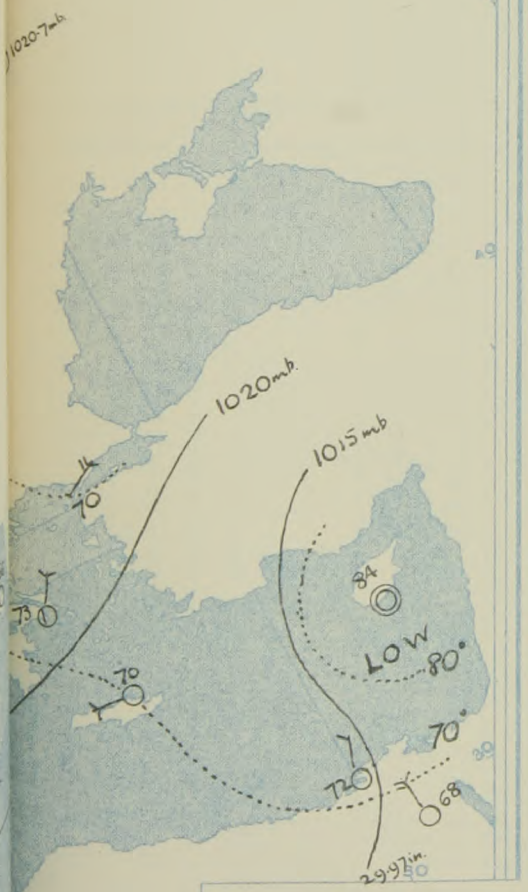
Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JUNE.

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



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



Western Channel and Bay.

Forecasts 18h. Sunday to 18h. Monday

0 a, b, 1 — S. to W. breeze, freshening somewhat; fair generally, some showers; moderate temperature.

2 a, b, 3 — Moderate to fresh W. breeze; fair to fine, local passing showers; moderate temperature.

4 a, b, c, 5 — Moderate SW. to W. breeze; fine to cloudy, some rain, coast mist or fog, moderate temperature.

6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b — S. to SW. breeze, freshening somewhat, cloudy, some showers, mist or fog; moderate temperature.

11 — Moderate to fresh SW. breeze; moderate sea, cloudy, some showers, mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 154 {Sunday 3rd June

	STATIONS.	EVENING OF 2nd				MORNING OF 3rd								24 HOURS ENDED 7 A.M. 3rd					Sunshine for 2nd
		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 ...	1011·4	52	SSW	1	bcm	1012·3	0	50	0	—	0	—	bm	?	—	54	47	om	bcm	bm	*
	Deerness (Orkney)	1010·6	53	S	3	c	1013·2	*	53	+3	WSW	3	—	bc	1	—	55	46	c.bc	bc.c	c.bc	8·0
	Stornoway ...	1009·5	54	S	6	cq	1012·2	+3	53	+2	SSW	5	—	bcq	4	0·3	57	49	cq	cq	cdp.bcq	8·7
	Castlebay (Barra Isd.)																					
	Glasgow ...	1013·0	55	SW	3	b	1018·9	+3	49	−3	SW	3	W	c	*	1	58	47	c.op	cp.bc	b.bc.cm	6·9
	Eskdalemuir ...	1014·4	52	SW	4	bc	1019·6	+3	48	−1	SW	4	W	bcw	*	—	58	43	o.c.bc	c.bc	bc.o.bc	11·4
	Malin Head ...	1010·9	53	WSW	3	cp	1015·7	+1	49	+1	SW	5	W	cq	6	2	57	47	bcp	cp	cq	8·0
	Blacksod Point	1012·7	53	WSW	5	bcp	1012·3	−3	48	−3	ESE	4	—	cmd	4	1	55	48	bcp	cq/p	bc.om	
	Valencia (Cahirciveen)	1018·6	55	SW	5	c	1016·2	+2	56	+6	S	4	—	o	4	9	57	48	cp.b.	bc.cp.cq	c.or.o	9·1
	Roche's Point	1019·0	55	WSW	4	c	1019·2	*	53	+2	SSW	3	—	rf	4	8	58	48	cpq	cp	c.bc.fd	
	Birr Castle ...	1015·5	53	SW	2	c	1016·5	*	50	+1	SE	2	—	o	*	4	59	45	cph	cph	c.op	4·0
	Donaghadee ...	1012·6	57	SSW	3	bcz	1018·1	+2	50	0	SW	3	SW	cmq	3	3	58	46	bcqp	cq/ph	cmqp	
	Liverpool (Bidston)	1016·7	56	SW	3	b	1022·8	+1	55	+1	SSW	2	S	b	2	1	59	47	bcp	op.b	b	5·5
	Holyhead ...	1016·4	53	SW	5	bq	1021·2	+1	51	0	SW	4	—	cg	3	Trace	56	49	bc.c.bc	bc.c.bc	bc.cp	12·6
	Pembroke (St. Ann's)	1019·8	52	SW	4	b	1023·7	+1	52	+1	S	4	—	or	4	3	54	48	bcprh	bc.b	b.bc.or	7·9
	Scilly (St. Mary's)	1023·6	56	W	4	bc	1025·7	+1	55	+4	SSW	4	SW	omp	5	1	57	48	c.bc	bc	bc.c.om	9·0
	Falmouth ...	1023·0	57	W	4	b	1025·8	+1	54	0	SSW	4	—	bcpq	*	2	58	47	cpq.bc	bcpq.b	bc.c	7·1
	Jersey (St. Aubin)	1024·4	58	W	4	b	1029·3	*	54	0	SW	3	—	b	2	—	60	48	op.o	o.c.b	bw	7·5
	Portland Bill ...	1021·4	53	WSW	5	b	1026·9	+4	52	0	SW	4	SW	bc	4	—	54	50	bc.c	c.bc	b.bc	
	Dungeness ...	1020·5	55	SW	4	b	1027·5	+3	52	+1	WSW	3	—	b	4	—	61	49	bc	bc	b	
	Dover	1021·5	55	SSW	4	b	1027·9	+4	56	+1	SW	3	W	b	2	—	60	46	bc.b	b	b	12·4
	Wick	1010·0	55	S	2	c	1013·2	+3	52	+2	SW	2	SW	c	2	—	56	44	cm.bc	bcz.	c.bcm.c	
	Nairn	1010·6	56	SW	2	bcq	1014·1	*	54	0	SW	3	—	cq	2	0·2	63	42	p.bc	bcqp	cg	4·8
	Aberdeen ...	1012·3	56	SSE	3	c	1015·5	+3	55	+2	SSE	1	NW	b	2	—	62	46	b	b.bc.c	bc.b	8·9
	Leith	1012·1	62	SW	2	bc	1018·3	+3	53	−3	SW	2	SW	bc	2	—	63	49	bcu.c	cp.bc	bcp.bc	*
	Tynemouth ...	1014·7	55	SW	2	cm	1020·0	+2	53	−2	W	3	W	bcq	2	1	61	47	bcmp	cmp	bcq	
	Spurn Head ...	1017·7	58	WSW	3	cp	†1023·2	†2	53	−2	W	5	—	bcq	4	2	68	47	bc	bc	bcq	4·4
	Yarmouth (Gorleston)	1018·0	64	WNW	3	bc	1025·2	+5	54	−6	WNW	4	—	bc	3	—	69	45	bcm	bcm	bcm	9·9
	Clacton-on-Sea	1019·8	62	SSW	4	bc	1026·6	+3	54	−3	W	4	W	bc	3	—	65	49	c.bc	bc	bc.cq.b	10·6
	Nottingham ...	1018·1	49	WSW	3	r	1023·8	*	52	−2	SW	2	W	c	*	4	63	44	o.c	c.or	r.c.b	4·1
	Benson (Oxon.) ...	1020·2	55	WSW	5	bc	1025·9	+3	53	−2	SW	3	—	b	*	0·1	64	44	bc	bcr	b	
	Sth Farnborough	1020·6	56	WSW	3	b	1026·9	+3	53	−3	SW	3	W	bc	*	1	65	43	bc.c.bc.o	o.bc.cp.ab	b.op.b	8·4
	London (Kew Obsy.)	1021·0	57	WSW	3	bv	1027·5	+2	53	−6	SW	3	NW	b	*	1	66	47	b.bcv.ov	ov.cv.or.cv	bv.bc.cp	8·8
NORTHERN EUROPE.	Spitsbergen ...	1022·6	27	—	0	b	1026·3	−2	25	+2	S	1	*	o	*	*	32	14				
	Vardö	1022·7	37	—	0	b	1021·0	0	37	+1	SSE	1	—	o	2	*	39	30				
	Bodö	1019·5	55	SSW	1	b	1016·4	0	54	+4	SE	1	—	b	1	—	57	48				
	Christiansund ...	1017·2	59	NNE	1	o	1016·5	−1	54	−5	—	0	—	b	2	—	63	52				
	Skudesnaes ..	1016·6	52	SE	2	o	1014·7	0	52	−5	SE	1	—	o	2	8	57	60				
	Færder (Xtania Fjord)	1019·5	66	—	0	bc	1015·7	−1	51	0	—	0	—	o	0	—	66	55				
	The Scaw (Skagen)	1019·9	55	E	1	o	1017·1	−2	55	0	—	0	—	o	0	—	59	54				
	Blaavands Huk	1019·0	66	SSW	1	c	1019·1	?	54	−3	W	3	—	o	?	1	70	52				
	Copenhagen ...	1020·2	64	WSW	2	b	1018·0	+1	57	0	W	2	—	r	*	2	70	54				
	Bornholm ...	1020·2	54	ESE	3	c	1017·6	−1	55	+1	SW	1	—	m	0	—	57	48				
FRANCE, &c.	The Helder ...	1019·3	59	SW	3	b	1023·9	+3	52	−9	SW	5	—	b	1	—	66	52				
	C. Gris Nez ...	1021·9	55	WSW	4	bc	1028·0	+3	52	−1	SW	4	*	b	3	—	59	50				
	La Hève	1024·6	56	W	3	b	?	*	51	−3	WSW	4	*	b	3	—	64	50				
	Brest (St. Mathieu)	1026·9	59	W	4	bc	1029·3	+1	57	0	SW	4	*	c	3	—	63	52				
	Rochefort (Ile d'Aix)	1026·7	63	W	3	c	1029·6	+1	56	−4	NE	3	*	b	*	—	68	52				
	Biarritz	1026·9	62	NNE	2	o	1028·0	0	59	−1	ENE	1	*	o	3	—	66	55				
	Paris	1023·7	64	WNW	2	o	1030·6	+3	57	−8	—	0	—	b	*	—	72	46				
	Belfort	1023·5	64	W	6	o	1030·3	*	59	−1	W	4	*	c	*	?	77	53				
	Lyons'	1023·5	66	NW	2	r	1028·8	*	61	0	NNW	2	*	bc	*	6	77	56				
	Nice	1023·8	66	SW	1	b	1024·8	+3	66	+4	—	0	*	b	1	—	75	56				
	Perpignan ...	1024·4	66	E	1	bc	1026·7	+2	68	+4	NW	3	—	b	*	—	73	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1028·2	63	NNE	3	b	1023·3	−2	61	0	—	0	—	b	1	—	63	50				
	Madrid	1018·7	79	NW	2	b	1026·0	−2	64	+1	ENE	1	—	b	*	—	81	55				
	Lisbon	1023·3	68	NNW	5	b	1022·3	0	59	−7	N	2	—	b	5	—	72	56				
	Azores (Horta) ...	1024·6	*	SW	5	o	1025·0	+2	58	−1	NNE	4	*	b	2	1	68	57				
	Madeira	1024·0	66	NE	3	c	1022·3	0	63	+4	NE	3	—	o	3	—	66	63				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1021·9	+3	68	+2	ENE	3	—	c	2	—	70	66				
	Limassol	*	*	*	*	*	1011·9	0	84	+4	—	0	—	b	2	—	90	64				
	Alexandria ...	1016·0	70	N	2	b	1015·1	+1	72	0	NNE	1	—	b	1	—	77	66				
	Cairo (Helwan) ...	1013·7	79	N	3	b	1013·9	+2	68	−5	N	3	—	b	*	—	73	63				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 7 h. 2nd	Humidity. 9 h. 3rd	Sunshine for 2nd	24 Hours ended 9 h. 3rd June. Temperature. Max.	Min.	Min. on Grass.	Rain fall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)										
CITY (Bunhill Row)	*	*	8·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park.)	52	63	8·0	66	48	44	1	bc	bc	bc.o.b
CAMDEN SQ. (British Rainfall) ...	46	59	8·6	71	57	45	2	bc	bc	*
HAMPSTEAD (Reservoir)	*	64	8·5	64	44	35	1	bcp	bc	bc
S. KENSINGTON (Museum Grounds)	*	65	8·2	61	48	43	1			

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 2nd June

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

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

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

Issue No. 20283. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Monday 4TH JUNE.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON SUNDAY 3RD JUNE 1917.

Moderate temperature ruled. Rain fell in most districts, 19 mm. at Blacksod. Sunshine was very variable, none in places, 14 7 hours at Dover.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR SUNDAY 3RD JUNE UP TO 17 H.

	STATIONS.	Sunshine for 2ND	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 3RD
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	9·1	–	9	54	48	c	r.o	2·2
	Banff	7·2	–	1	61	44	bc	cp.r	5·1
	Montrose	10·0	*	1	60	47	o	?	5·8
	St. Andrews								
	Carnoustie		–	–	61	48	–	–	5·5
Eng. N.E.	Harrogate	6·1	–	2	57	45	o	or	0·2
	Skegness		0·4	–	63	42	bc.o	od	5·8
Eng. N.W.	Morecambe								
	Southport	9·2	–	9	56	60	c.bc.o	r.o	2·2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl		–	1	60	44	bc.c	p.c.bc	1·7
	Colwyn Bay		–	–	58	49	cp	cp	1·4
	Llandudno		*	*	62	50	cp	r	3·9
	Aberystwyth		*	*	56	50	r.o	c.o	0·0

	STATIONS.	Sunshine for 2ND	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 3RD
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft								
	Felixstowe	10·6	–	–	67	48	bc	bc	9·6
	Walton-on-Naze								
	Southend-on-Sea		–	–	66	48	bc.c	c.bc.bv	8·7
England, S.E.	Margate	10·3	*	*	62	47	b	b	10·0
	Hastings	10·2	*	*	59	47	b	b	13·5
	Eastbourne	11·8	–	–	61	50	b	b	11·9
	Seaford								
	Brighton	6·7	–	–	59	48	bv	bv	11·7
	Worthing	8·6	–	–	61	44	b	b	12·0
	Littlehampton								
	Bognor								
	Bournemouth	7·8	*	*	62	48	b	b	11·5
England, S.W.	Weymouth		*	*					
	Torquay		–	–	61	48	b	c.bc.c	6·1
	Paignton								
	Penzance								
	Newquay								
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR SUNDAY 3RD JUNE

	STATIONS.	Evening of 2ND: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 3RD: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	1025·0	43	NNW	4	b	1025·0	0	43	0	SW	2	0	–	*	39
	Gorki														*	
	Velieki Luki														*	
	Hangö	1024·2	55	ESE	2	bc									*	
	Riga	1022·0	68	SE	1	c									*	
	Petrograd	1025·6	63	E	2	b	1025·1	0	59	+4	SSE	2	b	–	68	50
	Moscow	1022·9	55	NNE	1	b	1022·7	0	54	−1	NNE	2	b	–	*	48
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout														*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1022·2	70	SW	1	b		*								
	Pesaro	1023·1	66	SSE	1	b	1024·5	*	68	+4	N	1	b	?	?	?
	Rome	1024·7	66	SW	1	b	1024·5	*	66	+2	N	1	b	–	77	55
	Viesti	1023·1	68	W	1	b	1023·3	*	68	0	WNW	1	b	2	73	63
	Brindisi	1023·1	66	?	1	bc	1021·9	*	66	+2	NW	1	b	–	70	64
	Cagliari	1020·7	74	SE	3	c	1022·1	*	63	0	NW	3	c	–	69	52
	Palermo	1023·7	66	–	0	0	1022·5	*	68	+4	–	0	0	–	68	52
	Tripoli						1017·7	*	75	+5	E	2	c	–	?	64
	Algiers	1022·4	64	–	0	0	1023·9	+2	64		NNE	3	0	Trace	72	63
SWEDEN.	Hernösand	1020·8	70	SW	4	b	1019·4	*	52	0	NW	2	b	*	*	*
	Stockholm	1022·7	63	SE	2	b	1018·1	*	61	−5	E	2	0	*	*	*
	Wisby	1022·7	61	SE	2	b	1016·8	*	52	−11	NNW	2	r	*	*	*

ICELAND.	Morning of 3RD: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1023·7	28	−2	N	7	c
Reykjavik	1015·9	39	−4	–	0	b
Vestmanna						
Seydisfjord	1026·6	34	0	N	2	0
Thorshavn	1012·1	50	0	–	0	f

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

4TH and 5TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·35	11·51	8·7
	3·34	11·51	8·8
Greenwich	3·48	11·58	8·8
	3·47	11·58	8·9
Wick	3·14	12·10	9·7
	3·13	12·10	9·8
Valencia	4·26	12·39	8·52
	4·25	12·39	8·53

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

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‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

THE MORNING OF MONDAY, 4TH JUNE, 1917.

General Inference

A changeable type of conditions is likely to prevail.

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.

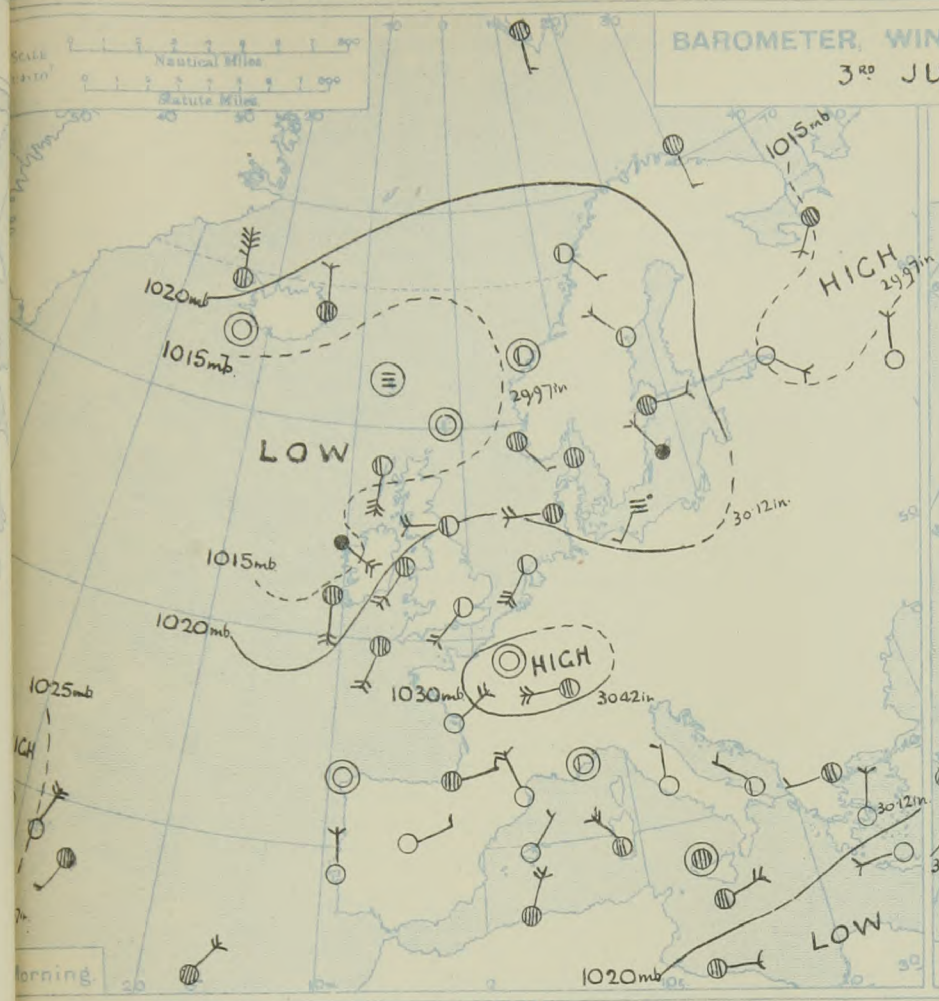
SEA DISTURBANCE.—Rough ~~. High ≈.

1010mb. LOW 1010mb. 1015mb. 1015mb. 1020mb. HIGH 40° 40° 50° 50° 60° 70° 1025mb. 1020mb. 1025mb. 1020mb. 1015mb. 1020mb. 1020mb. 1025mb. 29·83in. 30·12in. 29·97in. 30·27in. 30·12in. 30·27in. 30·12in. 30·12in. Barometer falling. Bar. rising. Barometer HIGH. LOW. HIGH. 34 43 46 48 49 50 52 53 54 55 56 57 58 59 60 61 63 64 66 70 71 72

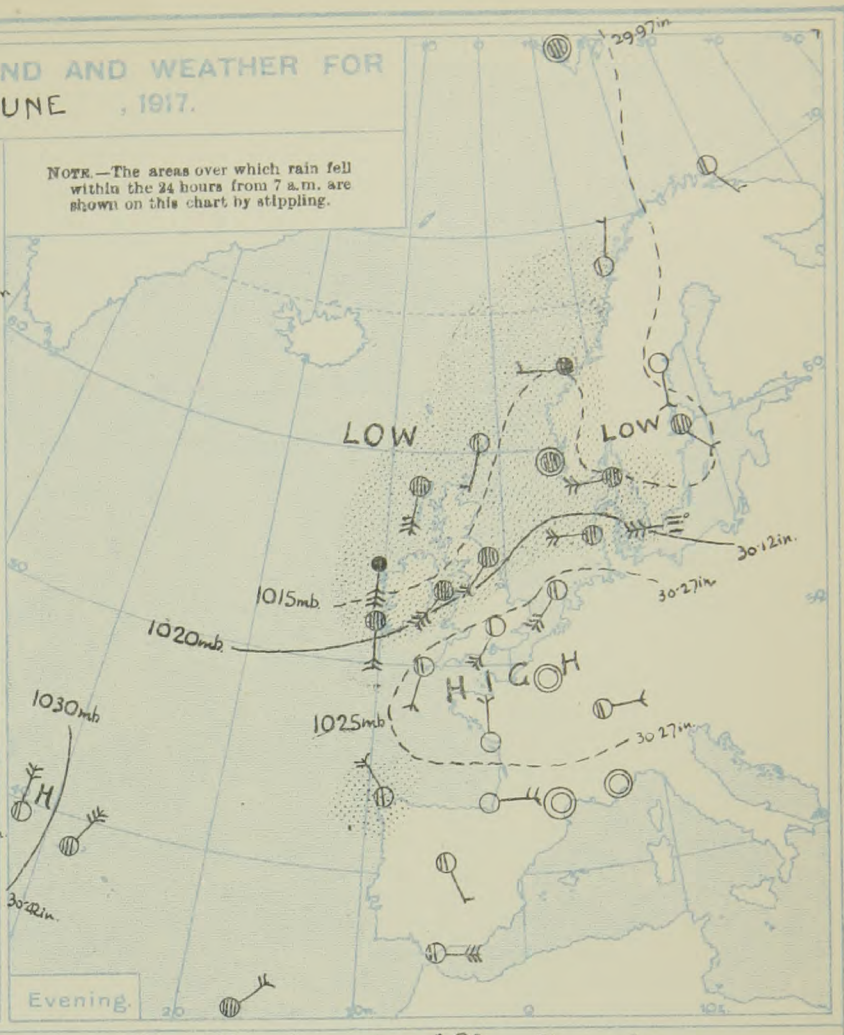
Normal Temperature of the Sea.
Below 50° 50°-60° 60°-70° Above 70°

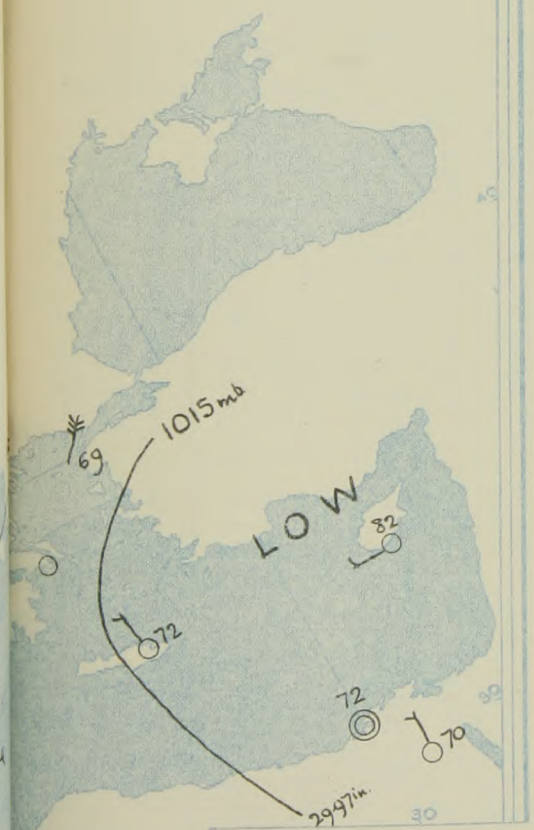
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 3RD JUNE, 1917.



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





Forecasts 18h. Monday to 18h. Tuesday

0 a b 1 } Light variable breezes; becoming SW. or S. and freshening; dull to fair, some rain and mist; moderate temperature.

2 a b 3 4 a b c } Light SW. breeze, backing S. and SE, freshening; fine at first, doubtful later, probably some rain and tendency for thunder; moderate temperature.

5 } Freshening S. to E. breeze; fine at first, probably becoming less settled, with some rain and thunder locally; moderate temperature.

6 a b } Same as Nos. 0 and 1

7 a b } Moderate S. to SE. breeze; changeable, some rain, mist or fog; moderate temperature.

8 a b } Same as No. 5

9 a b 10 a b } Same as No. 7

11 } Moderate S. to E. and variable breezes; sea moderate; changeable, some rain and thunder; moderate temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 155. {Monday, 4th June

	STATIONS.	EVENING OF 3rd					MORNING OF 4th									24 HOURS ENDED 7 A.M.						Sunshine for 3rd
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1014·0	50	SSW	1	bc	1013·0	0	49	−1	W	1	—	om	1	0·3	59	49	bm	bc	om	
	Deerness (Orkney)	1013·5	50	E SE	3	o	1014·2		50	−3	WNW	4	NW	c	0	3	58	47	bc.c.o	op.o	or.c	4·7
	Stornoway ...	1012·8	49	SSW	5	opq	1014·7	+1	49	−4	SSW	1	—	bc	1	3	54	45	c.opq	opq	bc	1·2
	Castlebay (Barra Isd.)																					
	Glasgow ...	1013·2	56	SSW	3	omr	1016·1	0	49	+6	E	1	—	omr		11	56	48	c.odp	omd	omp.or	2·3
	Eskdalemuir ...	1016·2	51	SW	6	orm	1017·7	0	49	+1	SSW	5	—	om		21	54	47	bc.c.or	omr	omr.om	2·6
	Malin Head ...	1010·3	56	SW	6	omp	1013·5	0	52	+3	SW	2	—	omr	2	12	57	47	omr	omp	omr	0·0
	Blacksod Point	1013·2	53	S	6	omr	1013·4	+2	53	+5	S	3	—	om	4	19	56	48	omqr	omqp	omr.or	
	Valencia (Cahirciveen)	1018·7	57	S	4	o	1017·1	0	54	−2	S	5	—	od	4	6	58	54	orp	op.o	o	0·0
	Roche's Point	1021·5	54	SSW	4	om	1019·9		52	−1	SW	3	SW	bc	4	1	58	50	fd.om	om	om.bc	
	Birr Castle ...	1017·6	60	SSE	2	c	1017·4		55	+5	S	2	S	c		4	60	49	or	or.cp	o.c	2·4
	Donaghadee ...	1013·9	59	SW	5	ompq	1016·1	+2	54	+4	SSW	3	SW	omr	3	3	60	50	omrq	ompq	ogmp	
	Liverpool (Bidston)	1020·7	57	SSW	5	o	1021·4	+1	56	+1	SSW	3	SW	b	3	5	58	53	b.or	or	o.c.b	1·8
	Holyhead ...	1019·6	53	SW	6	oqf	1020·5	0	52	+1	SW	5	SW	bcqf	4	13	53	50	a.orm	or.of	op.bc	0·2
	Pembroke (St. Ann's)	1024·0	53	S	4	o	1022·8	0	50	−2	S	2	—	f	3	2	53	49	orf.ofp	o	o.c.bfe	0·0
	Scilly (St. Mary's)	1025·9	58	SSW	2	bc	1022·3	−1	56	+1	SSE	1	S	b	4	—	61	50	om	c.bc	bc.b	6·5
	Falmouth ...	1025·8	59	SW	2	b	1021·4	−2	56	+2	SE	2	—	b		—	61	48	cq.acq	cq.c.b	b.bW	4·7
	Jersey (St. Aubin)	1027·7	63	SE	2	b	1023·0		60	+6	E	2	—	b	2	—	63	58	b	b	b	14·5
	Portland Bill ...	1027·3	53	SSW	4	bc	1023·3	−2	55	+3	ENE	2	—	b	2	—	55	50	bc	bc	bc.b	
	Dungeness ...	1028·1	54	WSW	3	b	1025·7	−1	55	+3	SSW	2	—	b	2	—	58	50	b.bc	bc	b	
	Dover	1027·9	52	SSW	3	b	1025·3	−1	58	+2	S	2	—	b	2	—	59	49	b	b	b	14·7
	Wick	1013·2	50	SW	2	r	1014·7	+2	50	−2	WNW	1	—	o	2	3	58	46	cmp	c.omp	omp	
	Nairn	1011·3	49	E	1	r	1015·4		49	−5	—	0	—	og	1	8	59	46	cg	r.c.o	or	4·0
	Aberdeen ...	1014·6	50	SSE	3	omd	1015·9	+3	52	−3	NW	1	—	o	2	1	64	49	bc.c.o	odmr	or.o	6·3
	Leith	1012·3	60	SW	2	c	1016·3	+1	53	0	NW	1	W	r	1	2	61	51	bc.c.o	op.ur	cr.qr	
	Tynemouth ...	1017·4	58	SW	3	ompq	1018·9	+1	57	+4	WSW	3	SW	bcm	3	1	58	53	cm	omp	bcm	
	Spurn Head ...	1023·4	56	WSW	5	orq	1023·0	0	56	+3	WSW	2	—	bc	3	1	63	52	cqr	rq	eqr	3·2
	Yarmouth (Gorleston)	1024·8	64	WSW	4	bc	1024·3	0	59	+5	WSW	3	—	b	2	—	66	51	bcqr	bqr	bcq.bc	9·2
	Clacton-on-Sea	1026·5	62	W	3	c	1025·6	0	58	+4	SW	3	—	b	2	—	66	51	bc	bc.c	c.bc.b	10·3
	Nottingham ...	1023·5	58	SW	4	o	1022·6		56	+4	SW	2	—	b		0·1	59	51	cp.o	op	o.c	1·7
	Benson (Oxon.) ...	1025·5	61	SSW	4	c	1023·0	−1	58	+5	S	3	—	b		—	63	46	c	c	bcv	
	Sth Farnborough	1026·2	61	SSW	4	b	1023·9	−2	58	+5	SSE	4	—	bw		—	65	43	bc.o	o.b	bw	10·8
	London (Kew Obsy.)	1026·4	66	SW	4	bv	1024·4	−2	57	+4	SSE	1	—	bm		—	67	46	bv.bc.c.o	o.cv.c.cv.bv	bv.b.bm	10·1
NORTHERN EUROPE.	Spitsbergen ...	1014·1	30	—	0	c	1008·3	−2	34	+9	S	1		o			34	25				
	Vardö	1017·9	39	SSE	1	bc	1015·0	−2	43	+6	S	1	—	b	1		41	28				
	Bodö	1011·7	57	NE	1	b	1010·4	0	46	−8	SW	4	—	o	2	3	59	46				
	Christiansund ...	1015·0	50	W	1	r	1014·9	0	48	−6	—	0	—	f	2	5	57	48				
	Skudesnaes ...	1016·8	50	—	0	o	1013·7	−3	50	−2	SE	4	—	o	3	—	52	48				
	Færder (X'tiania Fjord)	1013·3	54	SW	2	c	1014·1	+1	54	−3	WSW	6	—	b	3	Trace	64	52				
	The Scaw (Skagen)	1016·7	52	W	4	o	1017·6	0	54	−1	WSW	4	—	o	4	16	57	48				
	Blaavands Huk	1022·7	54	W	4	c	1020·7	?	54	0	WSW	3	—	o	?	Trace	55	50				
	Copenhagen ...	1020·2	57	W	5	c	1021·3	0	55	−2	W	3	—	o		3	63	50				
	Bornholm ...	1019·8	52	W	6	m	1021·1	+1	52	−3	W	5	—	m	†	3	55	46				
FRANCE, &c.	The Helder ...	1026·9	55	SW	5	bc	1024·8	0	55	+3	W	3	—	b	1	—	59	52				
	C. Gris Nez ...	1028·6	56	SW	3	b	1025·6	−1	62	+10	S	2		b	2	—	62	48				
	La Hève	1028·8	60	—	0	b	1025·7		54	+3	ESE	1		b	2	—	66	54				
	Brest (St. Mathieu)	1027·7	61	S	3	b	1021·5	−2	63	+6	ESE	3		bc	2	—	66	52				
	Rochefort (Ile d'Aix)	1025·5	68	N	2	b	1021·1	−1	60	+4	E	3		b		—	77	55				
	Biarritz	1021·6	76	E	3	b	1018·7	0	72	+13	ESE	1		b	2	—	77	59				
	Paris	1028·3	66	SW	1	b	1025·2	−2	63	+6	ESE	1		b		—	72	46				
	Belfort	1028·7	65	E	2	bc	1027·9		58	−1	E	5		m		—	75	47				
	Lyons	1026·1	68	NNE	2	b	1024·6		61	0	—	0		b		—	75	53				
	Nice	1022·6	66	—	0	b	1023·5	+1	71	+5	—	0		b	0	—	77	59				
	Perpignan ...	1023·7	77	—	0	b	1023·1	0	70	+2	—	0	—	b		—	77	55				
	Sanguinaire ...	1023·7	68	NW	3	bc	1023·7		66		E	1		bc	2	—	81	63				
SOUTHERN STATIONS.	Corunna	1020·7	70	NW	3	b	1017·9	−2	59	−2	SE	1	—	c	2	?	72	55				
	Madrid	1020·7	79	SSE	1	bc	1021·2	−1	64	0	NE	2	—	bc		—	81	67				
	Lisbon																					
	Azores (Horta) ...	1027·8		NNE	5	c	1029·1	+1	57	−1	NNE	4		o	2	—	64	55				
	Madeira	1020·7	66	NE	3	o	1020·3	−1	61	−2	NE	4	—	b	4	—	66	61				
	Gibraltar	1021·3	65	E	6	bc	1017·6		64		E	6		bc	4	—	67	63				
	Malta						1019·4	+1	66	−2	ESE	3	—	o	2	—	72	66				
	Limassol						1010·6	0	82	−2	W	1	—	b	0	—	86	63				
	Alexandria ...	1014·1	70	N	2	b	1014·6	0	72	0	—	0	—	b	0	—	79	66				
	Cairo (Helwan) ...	1012·2	82	N	4	b	1012·8	+1	70	+2	N	1	—	b		—	93	64				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 3rd	Humidity. 9 h. 4th	Sunshine for 3rd	24 Hours ended 9 h. 4th June. Temperature. Max.	Temperature. Min.	Min. on Grass	Rainfall.	Weather. Morning	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)										
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	67	81	9·7	68	48	36	—	bc.o	oe	bc.o.b
CAMDEN SQ. (British Rainfall) ...	—	70	9·2	69	48	46	—	—	—	
HAMPSTEAD (Reservoir)	*	52	8·8	64	46	35	—	bc	bc	b
S. KENSINGTON (Museum Grounds)	*	58	9·9	68	50	43	—	bc.b	c.bc	bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 3rd June

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1844	31·4	86

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

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

Issue No. 20,284. # DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. { Tuesday 5TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Monday 4TH JUNE 1917.

Many English stations had maximum temperatures of 70° or over, and twelve to fourteen hours of bright sunshine, but in Ireland and Scotland there was none and considerable rain.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Monday 4TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 3RD	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 4TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	2·2	24	12	53	47	r	o	0·0
	Banff	5·1	[illegible]	0·4	52	48	cd	d	0·0
	Montrose	5·8	1	1	60	45	o	o	0·3
	St. Andrews		2	2	58	49	o	c	0·2
	Carnoustie		*	*	56	48	og	c	0·2
Eng. N.E.	Harrogate	0·3	1	–	68	52	b.bc.b	b	11·7
	Skegness	5·8	–	–	73	52	b	bc	9·6
Eng. N.W.	Morecambe		4	–	62	52	b	b	12·0
	Southport	2·2	–	–	62	52	b.bc	b	10·2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	1·2	–	–	73	47	b	b	12·6
Wales.	Rhyl	2·0	–	–	66	53	c.bc.b	b	11·0
	Colwyn Bay		–	–	67	53	bc	b	11·0
	Llandudno		*	*	64	53	b	b	9·6
	Aberystwyth		*	*	59	52	r.c.b	b.bc	11·5

	STATIONS.	Sunshine for 3RD	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 4TH
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft		–	–	69	51	bc.b	b	12·3
	Felixstowe	9·9	–	–	66	51	b	b	12·7
	Walton-on-Naze								
	Southend-on-Sea	10·7	–	–	74	50	bv	bv	11·4
England, S.E.	Margate	12·0	–	–	71	50	b	b	12·0
	Hastings	14·6	*	*	69	49	b	b	13·7
	Eastbourne	?	–	–	63	49	b	b	11·0
	Seaford	13·7	–	–	73	47	b	b	12·3
	Brighton	13·8	–	–	66	46	b	b	12·4
	Worthing	14·4	–	–	68	47	b	b	12·5
	Littlehampton		–	–	64	58	b	b	13·4
	Bognor								
	Bournemouth	12·0	*	*	65	48	b	b	13·7
England, S.W.	Weymouth		*	*	64	50	b	bz	12·0
	Torquay	8·5	–	–	64	47	b	b	11·8
	Paignton								
	Penzance		1	–	63	53	b	b	12·0
	Newquay		–	–	67	47	b	b	11·6
	Bude		–	–	67	49	b	b	12·5
	Ilfracombe		–	–	65	55	b	b	13·0
	Weston-s-Mare		*	*	73	48	b	b	11·5

REPORTS FROM FOREIGN STATIONS FOR Monday 4TH JUNE

	STATIONS.	Evening of 3RD: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 4TH: Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					F	F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel															
	Gorki	1016·8	72	ENE	1	0										
	Velieki Luki															
	Hangö	1014·0	55	E	3	r										
	Riga	1014·9	61	–	0	r										
	Petrograd	1017·6	64	E	2	b										
	Moscow	1021·5	54	ENE	1	b										
	Kiev															
	Kharkov															
	Kishinev															
	Elisabetgrad															
	Nicolaiev															
	Odessa															
	Tarkhankout															
	Soukhoum															
Mediterranean.	Venice	1022·6	70	–	0	b	1024·7		72		ENE	1	m	–	77	68
	Pesaro	1024·1	68	S	1	b	1024·5		68	0	NW	1	b	–	79	57
	Rome	1023·5	68	WSW	1	b	1022·3		70	+4	N	1	b	–	81	61
	Viesti	1022·6	68	NW	4	bc	1022·1		73	+5	NW	4	bc	–	75	66
	Brindisi	1021·3	66	NW	3	b	1019·3		68	+2	SSE	4	b	–	78	64
	Cagliari	1020·7	70	SSE	4	0	1020·7		63	0	SW	3	0	2	77	54
	Palermo	1023·1	68	–	0	0	1021·3		70	+2	ESE	1	0	–	75	61
	Tripoli						1018·3		77	+2	SE	1	bc	?	?	?
	Algiers															
Sweden.	Hernösand	1015·5	57	S	2	b	1010·9		52	0	–	0	c			
	Stockholm	1013·2	55	SE	2	0	1011·9		55	–6	W	4	0			
	Wisby	1014·0	62	NW	2	0	1014·7		50	–2	WSW	2	0			

Morning of 4TH: Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	F			
Isafjord	1022·4	32	+4	W	2	o
Reykjavik	1017·2	41	+2	SW	2	c
Vestmanna						
Seydisfjord	1019·9	32	–2	NE	2	o
Thorshavn	1011·8	52	+2	E	3	m

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

5TH and 6TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	3·34 / 3·34	11·51 / 11·51	8·8 / 8·9
Greenwich	3·47 / 3·47	11·58 / 11·58	8·9 / 8·9
Wick	3·13 / 3·12	12·10 / 12·10	9·8 / 9·9
Valencia	4·25 / 4·25	12·39 / 12·39	8·53 / 8·54

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

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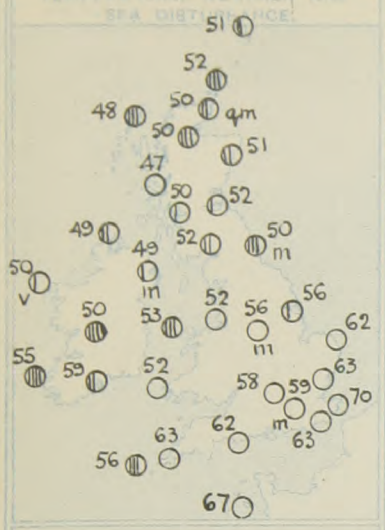
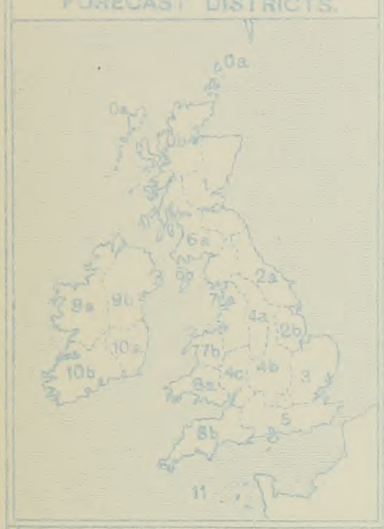
‡ The barometric change is expressed in half-millibars.

THE MORNING OF TUESDAY, 5TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.



General Inference

Anticyclonic conditions will continue, but there is a chance of low pressure developing over the Bay of Biscay and giving rise to thunderstorms in the south.

EXPLANATION.

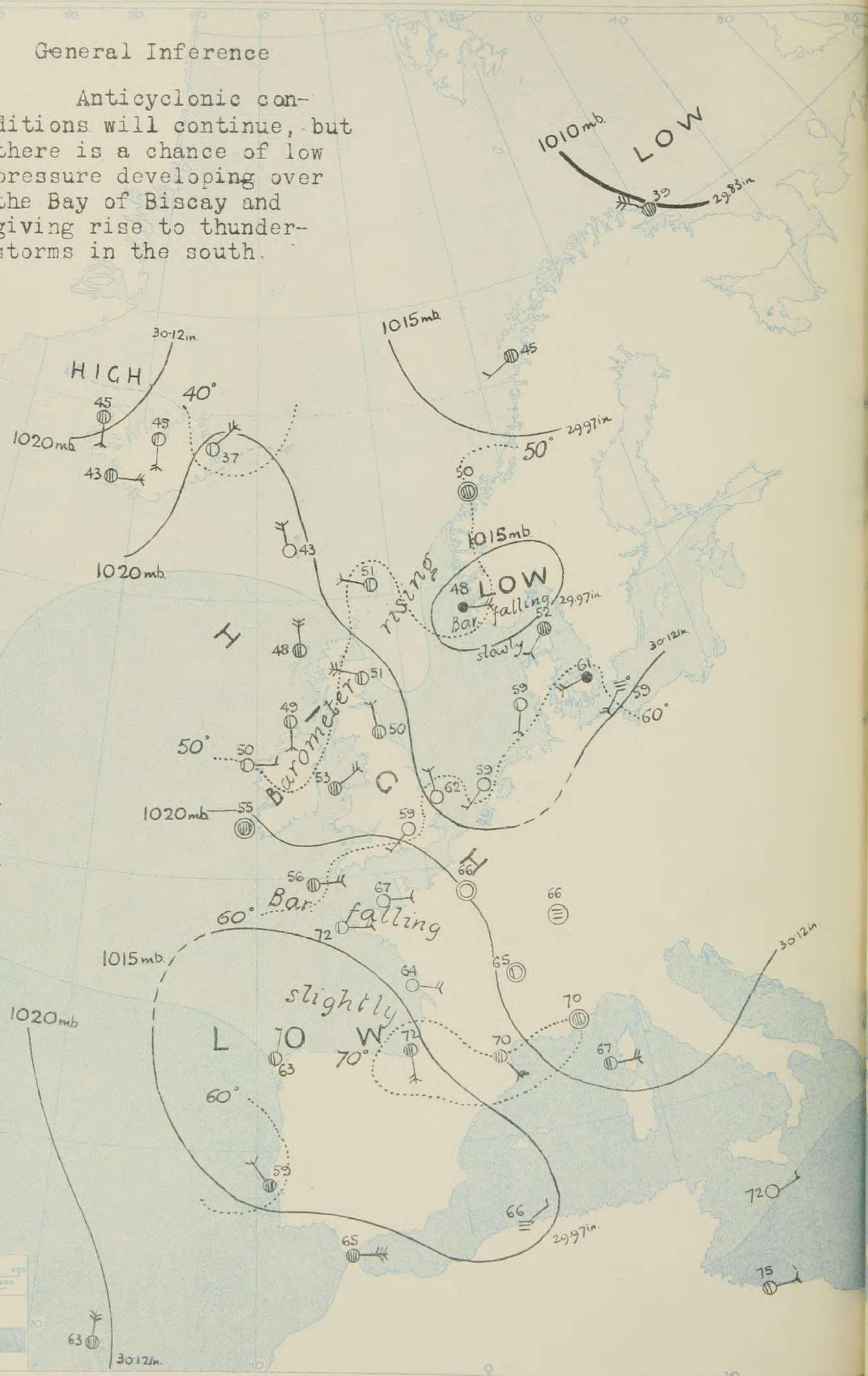
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

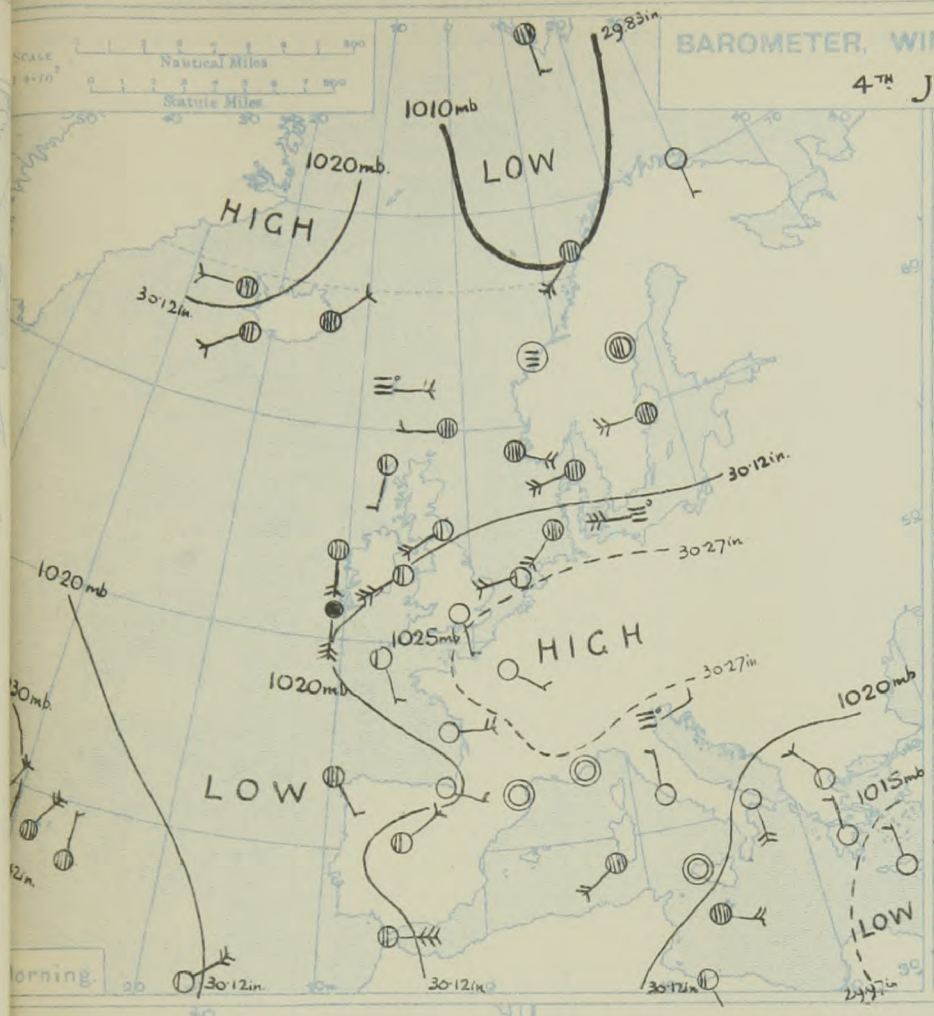
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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.

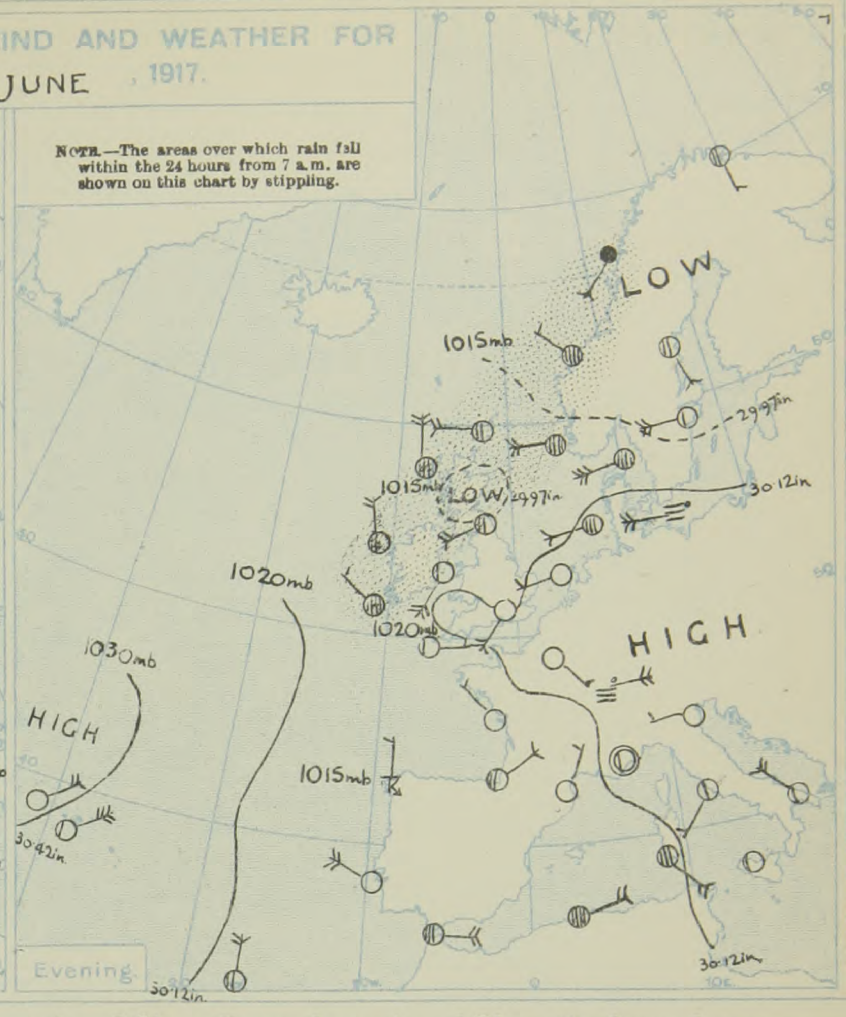
SEA DISTURBANCE.—Rough ~~. High ≈.

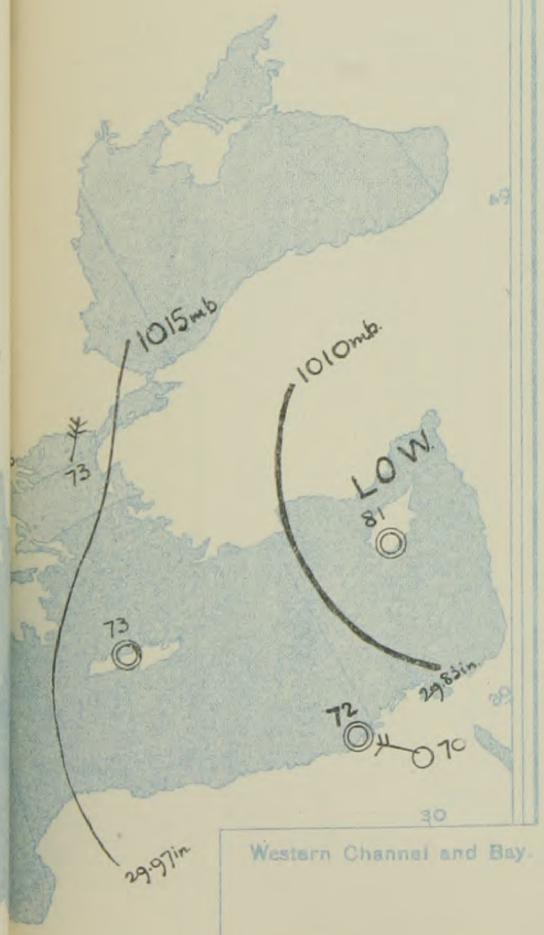


BAROMETER, WIND AND WEATHER FOR 4TH JUNE, 1917.



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





0 (a, b), 1	Wind becoming light and indefinite; fair to fine; normal temperature.
2 (a, b), 3, 4 (a, b, c), 5	Wind remaining light and indefinite; fine at first, perhaps local thunder later; warm.
6 (a, b), 7 (a, b)	Wind becoming light and indefinite; fine; normal temperature.
8 (a, b)	No material change of wind; fine, tendency to thunder later; rather warm.
9 (a, b), 10 (a, b)	Light variable airs; fair generally, perhaps thunder later; normal to rather warm temperature.
11	Light E. to variable breezes; fair generally; tendency to thunder; warm.

FURTHER OUTLOOK.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 156 {Tuesday / 5th June

	STATIONS	EVENING OF 4th					MORNING OF 5th								24 HOURS ENDED 7 A.M.						Sunshine for 4th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1015·5	64	W	3	bc	1017·8	+2	51	+2	WNW	2	NW	bc	2	2	56	47	o. c	c. bc	bcp	
	Deerness (Orkney)	1015·2	51	S	2	c	1018·3	*	52	+2	NW	5	NW	c	4	–	57	47	c	c	c	2·8
	Stornoway ...	1015·7	53	NNW	4	c	1022·7	+4	48	−1	N	4	–	c	4	8	54	45	bc. op	op. c	c	2·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1015·2	55	SW	4	smw	1021·8	+4	50	+1	N	1	E	b	*	8	55	44	omr	omr. op	op. bc. b	0·1
	Eskdalemuir ...	1017·4	50	SSW	4	omd	1021·6	+4	52	+3	NNE	3	–	bc	*	2	52	43	omo. or	or. omd	cdme	0·0
	Malin Head ...	1015·9	51	NW	4	cv	1022·9	+2	49	−3	S	2	NE	bc	2	4	58	47	bcp	bcp	bc	0·9
	Blacksod Point	1019·2	53	NNW	3	bcv	1021·8	+2	50	−3	E	1	–	bv	1	3	56	44	cmp	bc	bv. bv	*
	Valencia (Cahirciveen)	1019·6	54	NW	1	o	1019·8	0	55	+1	–	0	SE	o	2	3	57	53	ord. o	od	o	0·0
	Roche's Point	1019·5	54	SW	3	o	1020·3	*	59	+7	SE	2	E	bc	2	0·1	59	51	c. o. bc. c	c. om. o	o. bc	*
	Birr Castle ...	1017·6	59	SW	2	o	1021·6	*	50	−5	NE	2	–	o	*	0·3	61	46	c	cp. o	o, c. o	0·4
	Donaghadee ...	1016·3	58	SW	3	bcmp	1021·9	+3	49	−5	NW	3	–	bm	1	3	59	46	omp	cmp	bcm	
	Liverpool (Bidston)	1018·6	62	WSW	3	b	1021·9	+2	52	−4	W	1	–	b	1	–	66	50	b	b	b	14·0
	Holyhead ...	1018·9	55	SW	4	b	1021·9	+1	53	+1	NE	3	N	c	2	Trace	57	50	bcf. b	bc. b	o. c	12·5
	Pembroke (St. Ann's)	1020·9	56	–	0	b	1020·7	0	52	+2	NE	1	–	b	1	–	58	47	bc. b	b	b. bc bw	12·1
	Scilly (St. Mary's)	1019·8	62	E	1	b	1018·0	−1	56	0	E	3	S	c	4	–	66	53	b	b	b. bc. c	13·6
	Falmouth ...	1019·5	61	SSE	1	b	1018·1	0	63	+7	NE	2	–	b	*	–	63	52	b	b	b	14·8
	Jersey (St. Aubin)	1019·0	75	N	2	b	1018·0	*	67	+7	E	2	–	b	2	–	76	57	b	b	bw	15·0
	Portland Bill ...	1020·4	56	ENE	2	b	1019·6	0	62	+7	ENE	2	–	b	2	–	62	53	b	b	b	
	Dungeness ...	1020·7	61	E	2	b	1019·5	+1	63	+8	NE	1	–	b	1	–	70	48	b	b	b	
	Dover	1020·8	65	SE	1	b	1020·2	0	70	+12	NW	1	–	b	2	–	70	50	b	b	b	14·5
	Wick	1016·4	48	SE	1	o	1020·0	+3	50	0	NW	4	NW	bcmq	2	1	52	46	om. c	c. omp	o. c. bcm	*
	Nairn	1014·5	50	E	1	ogm	1021·6	*	50	+1	–	0	–	c	1	11	54	45	og	odg	r. c	0·0
	Aberdeen ...	1013·7	59	SSW	3	c	1020·9	+4	51	−1	WNW	4	–	bc	2	3	60	45	od m	odm. o. c	c. or. bc	1·1
	Leith	1014·9	58	SW	1	c	1020·7	+2	52	−1	NW	1	NW	b	1	3	61	48	rm. c. o	od. o. c	cu. c. b	
	Tynemouth ...	1017·0	63	SW	3	bcmq	1021·3	+3	50	−7	NNW	2	N	cm	3	–	65	48	bcmq	bcq	cm	
	Spurn Head ...	1019·3	70	WSW	3	bc	1020·5	+1	56	0	NNW	4	–	b	3	–	73	54	bcq	bc	bc	8·1
	Yarmouth (Gorleston)	1020·3	59	S	4	b	1019·4	0	62	+3	NNW	2	–	b	2	–	70	53	bc. b	b	b	11·3
	Clacton-on-Sea	1020·7	62	ESE	2	b	1020·3	0	63	+5	WNW	2	–	b	1	–	64	53	b	b	b	15·0
	Nottingham ...	1018·3	69	SW	2	b	1020·7	*	56	0	SW	1	–	bm	*	–	74	50	b	b	b. bc	14·2
	Benson (Oxon.) ...	1019·3	70	S	2	b	1020·1	+2	58	0	NNW	1	–	b	*	–	73	45	b	b	b	
	Sth Farnborough	1019·3	70	SSW	3	b	1020·2	+1	60	+2	NNW	1	–	bw	*	–	73	44	b.	b.	bw.	15 2
	London (Kew Obsy.)	1019·8	75	SW	3	bv	1020·8	+2	59	+2	SW	1	–	bm	*	–	75	50	bmd. b	bv	bv. b bmw	15 0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1010·0	45	S	1	bc	1011·3	0	39	−4	NW	5	–	o	3	*	45	37				
	Bodö	1014·9	45	SW	2	r	1013·2	0	45	−1	SW	1	–	c	1	?	46	41				
	Christiansund ...	1013·5	50	NW	1	o	1015·7	+2	50	+2	–	0	–	c	2	2	54	46				
	Skudesnaes ..	1016·2	48	W	3	o	1013·7	−1	48	−2	E	3	–	r	2	6	52	46				
	Færder (X'iania Fjord)	1012·4	55	SW	6	b	1013·3	0	54	0	WSW	6	W	3	3	–	56	52				
	The Scaw (Skagen)	1017·9	52	WSW	5	o	1016·2	−1	52	−2	SW	2	–	o	2	–	59	50				
	Blaavands Huk	1021·7	55	WSW	2	c	1017·9	?	59	+5	SSW	2	–	b	?	–	59	50				
	Copenhagen ...	1020·4	64	WNW	3	c	1019·1	−1	61	+6	WSW	3	–	r	*	–	64	55				
	Bornholm ...	1020·4	54	W	4	m	1019·8	−1	59	+7	SW	3	–	m	1	–	59	48				
FRANCE, &c.	The Helder ...	1022·3	61	WSW	1	b	1018·9	0	59	+4	SW	1	–	b	0	–	63	52				
	C. Gris Nez ...	1020·8	64	NE	3	b	1020·0	+1	64	+2	NE	2	*	b	0	–	73	54				
	La Hève	1022·7	75	E	1	b	1019·9	*	64	+10	ESE	2	*	m	1	–	77	54				
	Brest (St. Mathieu)	1019·3	72	NW	1	b	1015·7	−1	72	+9	E	3	*	b	3	–	79	61				
	Rochefort (Ile d'Aix)	1017·2	72	NW	1	b	1016·2	−1	64	+4	ESE	3	*	b	*	–	88	59				
	Biarritz	1015·3	75	NE	2	bc	1013·9	0	72	0	S	3	*	c	2	–	84	68				
	Paris	1019·8	75	E	1	b	1019·9	0	66	+3	–	0	–	b	*	–	81	64				
	Belfort	1022·1	72	E	4	m	1022·4	*	66	+8	–	0	*	m	*	–	77	55				
	Lyons	1019·3	78	–	0	b	1020·6	*	65	+4	–	0	*	b	*	–	83	59				
	Nice	1021·6	70	–	0	b	1021·2	+1	70	−1	–	0	*	c	0	–	77	61				
	Perpignan ...	1019·9	72	NE	1	b	1019·4	+1	70	0	SE	3	–	c	*	–	79	55				
	Sanguinaire ...	1021·2	73	N	3	bc	1020·4	*	67	+1	E	3	*	bc	1	–	82	63				
SOUTHERN STATIONS.	Corunna	1016·8	61	N	1	tl	1014·0	+1	63	+4	NNE	1	NE	bc	1	–	64	55				
	Madrid														*							
	Lisbon	1012·7	70	WNW	4	b	1014·7	+2	59		NW	2	–	o	5	–	79	67				
	Azores (Horta) ...	1029·7	*	NE	5	b	1030·3	0	56	−1	NNW	4	*	b	1	–	63	54				
	Madeira	1019·9	66	N	3	bc	1020·7	0	63	+2	N	4	–	o	3	–	68	61				
	Gibraltar	1016·6	65	E	4	c	1015·9	*	65	+1	E	5	*	o	3	–	66	64				
	Malta	*	*	*	*	*	1018·0	+2	72	+6	ENE	1	–	b	1	–	77	66				
	Limassol	*	*	*	*	*	1009·5	+1	81	−1	–	0	–	b	2	–	88	56				
	Alexandria ...	1013·6	70	N	2	b	1013·5	+1	72	0	–	0	–	b	0	–	81	66				
	Cairo (Helwan) ...	1011·4	82	NNE	3	b	1012·0	+1	70	0	NW	3	–	b	*	–	91	63				

RAINFALL

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS

	Humidity. 15 h. 4th	Humidity. 9 h. 5th	Sunshine for 4th	24 Hours ended 9 h. 5th June. Temperature. Max.	Temp. Min.	Temp. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	44	57	15·3	76	47	34	–	b	b	b. bz
CITY (Bunhill Row)	*	*	14·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	44	57	14·9	74	50	44	–	bc	b	b. bcm
CAMDEN SQ. (British Rainfall) ..	40	57	11·6	79	52	48	–	b	b	*
HAMPSTEAD (Reservoir)	*	58	14·3	73	52	36	–	b	b	b
S. KENSINGTON (Museum Grounds)	*	60	15·1	75	54	45	–	b	b	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 4th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
2509	42·7	(?) 81·5

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

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

Issue No. 20285. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Wednesday, 6TH JUNE.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Tuesday 5TH JUNE. 1917.

The thermometer rose to 80° at South Farnborough, but at most stations the maxima did not reach 70°. A great deal of bright sunshine was recorded generally. Thunderstorms occurred in the night in Ireland and the South of England.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Tuesday 5TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 4TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 5TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·0	2	–	61	42	b.	bc	11·9
	Banff	0·0	11	1	56	46	b	b	9·2
	Montrose	0·3	*	*	59	42	b	b	9·1
	St. Andrews	0·5	–	–	61	41	b	b	10·4
	Carnoustie		*	*	60	53	b	b	10·7
Eng. N.E.	Harrogate	13·4	–	–	62	48	b	bc. c	9·1
	Skegness	11·5	–	–	63	51	bc	bc. o	7·9
Eng. N.W.	Morecambe	14·5	–	–	67	51	b	b	12·5
	Southport	13·2	–	–	61	50	b	b	12·5
Midlands.	Leamington Spa								
	Malvern		–	–	74	50	b	b	12·3
	Ross-on-Wye	14·8	–	–	73	45	b	b	12·5
Wales	Rhyl	14·0	–	–	58	49	b. bc	bc. b. bc	10·2
	Colwyn Bay		–	–	56	49	bc	bc	10·0
	Llandudno		*	*	56	49	b	b	10·8
	Aberystwyth		*	*	75	45	c. b	bc. c	12·5
England, E.	Lowestoft	14·9	–	–	64	53	b	bc	11·8
	Felixstowe	15·0	–	–	70	52	b	b	12·7
	Walton-on-Naze	15·0	–	–	68	54	b	bb2	12·4
	Southend-on-Sea	13·8	–	–	74	53	b	b	12·5
England, S.E.	Margate	14·1	–	–	66	56	b	b	12·0
	Hastings	15·4	*	*	73	56	b	b	12·8
	Eastbourne	13·5	–	–	68	50	b	b	12·6
	Seaford	14·6			80	50	b	b	12·2
	Brighton	14·9	–	–	70	50	b	b	12·2
	Worthing	15·1			72	49	b	b	12·6
	Littlehampton				60	49	b	b	12·5
	Bognor								
	Bournemouth	15·3	*	*	75	45	b	b	13·2
England, S.W.	Weymouth		*	*	72	52	bz	b	12·0
	Torquay	14·2	–	–	69	51	b	b	12·4
	Paignton								
	Penzance	14·1	–	–	73	54	b	bc	12·0
	Newquay	14·0	–	–	75	52	bq	bq	11·6
	Bude	14·7	–	–	77	49	b	b	12·3
	Ilfracombe	15·9	–	–	71	50	b	b	11·5
	Weston-s-Mare	15·0	*	*	77	49	b	b	11·5

REPORTS FROM FOREIGN STATIONS FOR Tuesday 5TH JUNE

	STATIONS.	Evening of 4TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 5TH: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1017·3	57	NNW	1	b	1019·1	+1	55		SE	2	b	–		45
	Gorki	1015·3	55	–	0	o	1015·3		54		NW	2	o	1		50
	Velieki Luki	1014·7	55	–	0	o										
	Hangö	1013·6	46	WSW	1	o	1013·5	0	48		–	0	b	–		45
	Riga	1016·7	54	–	0	o	1017·2	+1	59		SSW	2	b	3		50
	Petrograd	1012·7	61	S	2	o	1014·1	+1	54		WNW	2	o	–	70	52
	Moscow	1015·1	63	WSW	1	bc	1015·4	o	61		SE	1	bc	–		52
	Kiev															
	Kharkov															
	Kishinev															
	Elisabetgrad															
	Nicolaiev															
	Odessa															
	Tarkhankout															
	Soukhoum															
Mediterranean.	Venice	1022·1	75	WSW	1	b	1022·7		72	o	ENE	1	b	—	81	66
	Pesaro	1023·4	68	S	1	b	1023·4		68	o	NW	2	b	—	77	57
	Rome	1021·1	73	SW	1	b	1020·7		73	+3	N	1	b	–	84	63
	Viesti	1066·4	72	NW	4	bc	1020·0		75	+2	WNW	1	b	–	77	66
	Brindisi	1020·6	68	NW	3	b	1016·6		68	o	NW	4	b	–	72	68
	Cagliari	1019·4	73	SE	3	c	1019·3		63	o	SE	3	o	–	79	54
	Palermo	1020·9	68	–	0	b	1019·0		70	o	–	o	b	–	77	59
	Tripoli						1015·8		75	-2	E	2	bc	Trace	88	66
	Algiers	1016·7	66	ENE	3	o	1014·7	o	66		NE	1	m	Trace	68	61
Sweden.	Hernösand	1010·1	55	SSE	2	bc	1010·4		54	+2	NW	2	c			
	Stockholm	1012·2	64	W	4	b	1013·6		55	o	WSW	2	o			
	Wisby	1016·6	57	WSW	2	b	1016·4		55	+5	WSW	2	b			

Iceland.	Morning of 5TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1020·4	45	+6	S	2	c
Reykjavik	1019·3	43	+2	E	3	c
Vestmanna						
Seydisfjord	1020·7	37	+5	NE	3	b
Thorshavn	1022·6	43	-9	NNW	3	b

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

6TH and 7TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·34 / 3·33	11·51 / 11·51	8·9 / 8·10
Greenwich	3·47 / 3·46	11·58 / 11·58	8·9 / 8·10
Wick	3·12 / 3·11	12·10 / 12·10	9·9 / 9·10
Valencia	4·25 / 4·24	12·39 / 12·39	8·54 / 8·55

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

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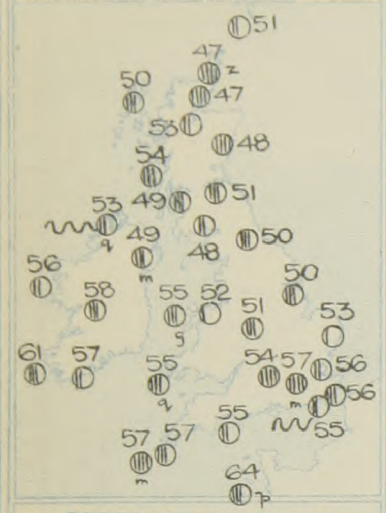
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Wednesday, 6th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

General Inference

No great change is probable in the general situation, but the anticyclone is likely to move slowly eastward.

EXPLANATION.

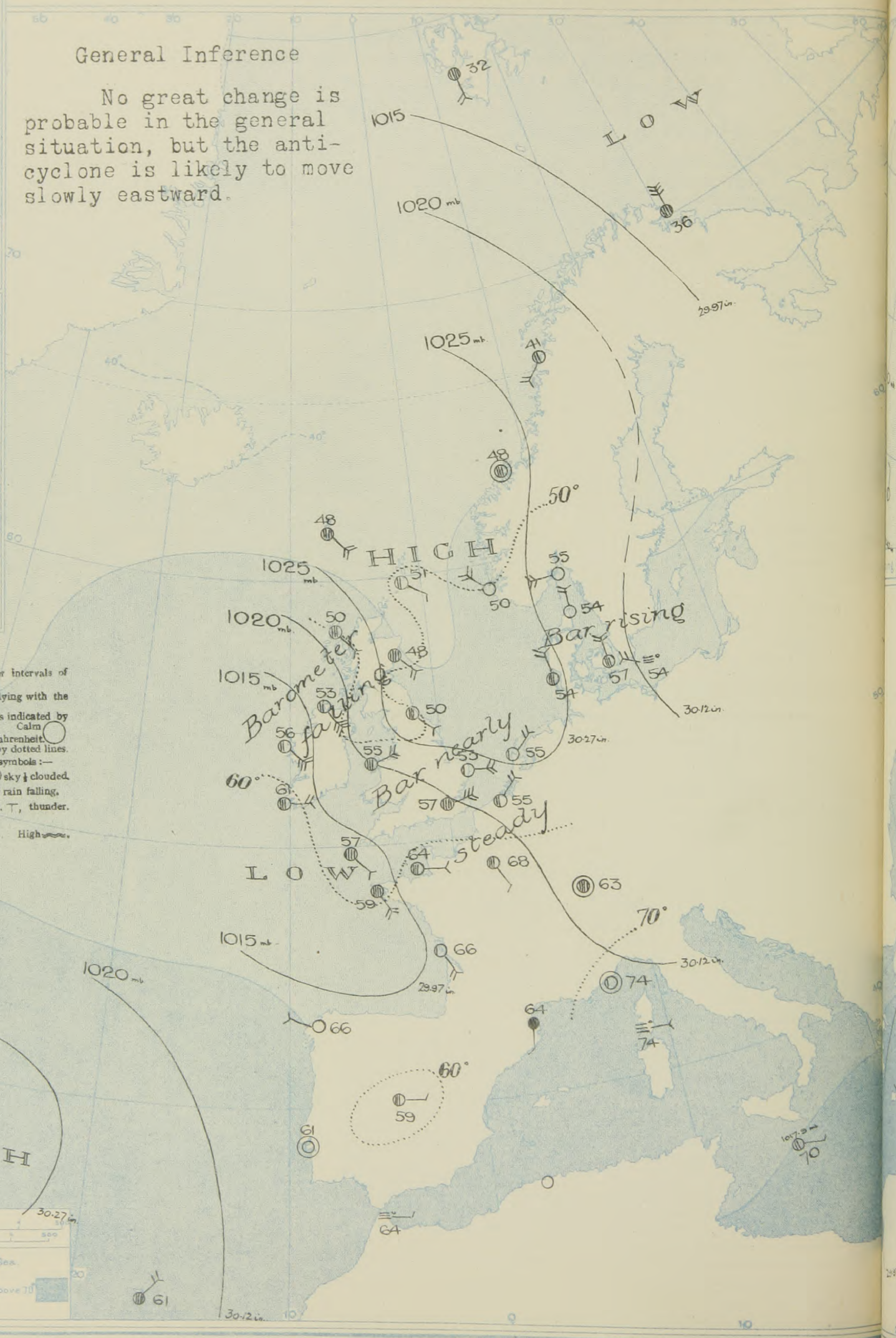
BAROMETER.—Isobars are drawn for intervals of five millibars.

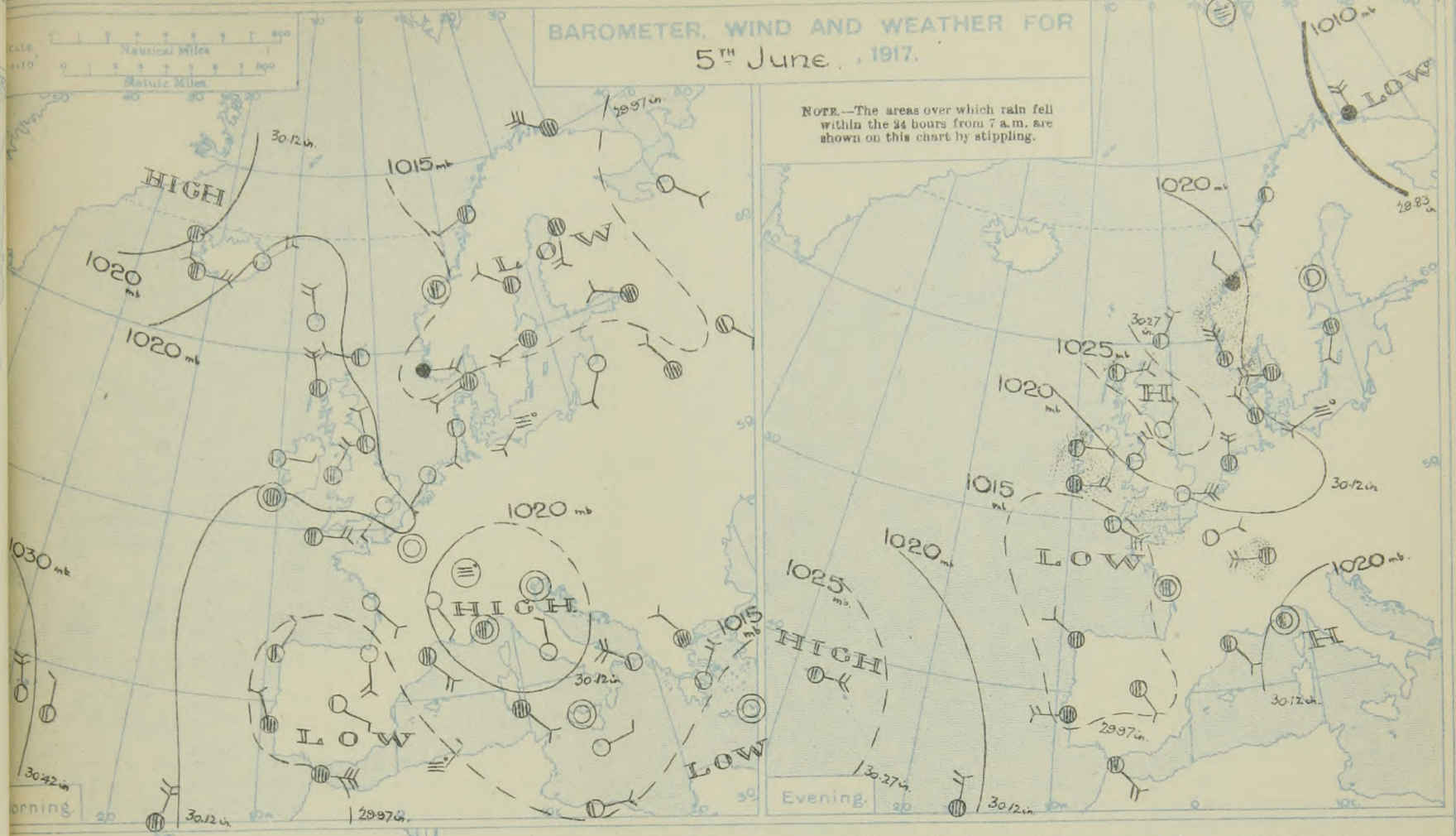
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

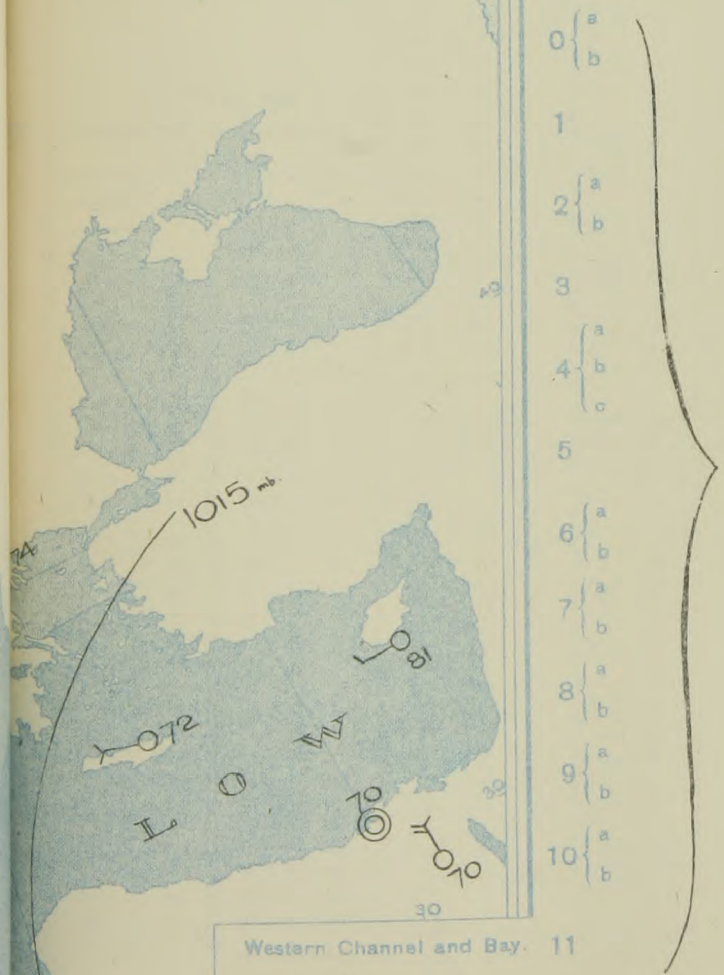
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.





Forecasts 18h. Wednesday to 18h. Thursday



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11

Moderate or fresh E. or SE. breeze; fair generally, thunder locally; normal temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 157. Wednesday. 6th June

	STATIONS.	EVENING OF 5th					MORNING OF 6th								24 HOURS ENDED 7 A.M.					Sunshine for 5th
		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 ...	1024·2	52	NNE	3	bc	1027·2	0	51	0	ESE	1	—	bc	1	—	58	44	bc	bc	bc	*
	Deerness (Orkney)	1025·4	50	N	3	bc	1025·7	*	47	-5	SE	4	—	oz	3	2	56	42	c	c.bc	bc.c.o	5·0
	Stornoway ...	1025·2	50	ENE	3	bc	1022·3	-1	50	+2	SE	2	—	c	1	0·3	52	48	c	c.bc	bc.cp	4·9
	Castlebay (Barra Isd.)																					
	Glasgow ...	1023·2	60	ENE	4	bz	1024·4	0	49	-1	E	3	s	c	*	—	64	45	b	bz	bbc.c	14·4
	Eskdalemuir ...	1023·8	57	E	4	bz	1025·0	0	48	-4	NE	3	w	bc	*	—	62	39	bc.bcg	bcg.bg	b.bc	11·0
	Malin Head ...	1022·5	52	NE	3	c	1015·7	-1	53	+4	SE	6	SE	bcq	5	—	55	48	bc	bc	bcq	10·5
	Blacksod Point	1018·7	56	E	2	bc	1012·5	-4	56	+6	ESE	5	SE	bcm	4	4	59	50	bc	bc	bc.ctl	*
	Valencia (Cahirciveen)	1015·5	63	E	3	qp	1012·2	+2	61	+6	E	3	S	c	3	6	65	55	oc	ccp	ptl.cl.bc	1·2
	Roche's Point	1017·8	60	ENE	4	bc	1015·0	*	57	-2	E	4	S	bc	4	0·1	62	55	bc	bc	bcm	*
	Birr Castle ...	1018·9	65	NE	1	c	1015·1	*	58	+8	SE	1	—	c	*	1	65	49	c.o	c	cp	4·1
	Donaghadee ...	1021·7	52	N	2	bcm	1021·2	+1	49	0	SE	3	SE	cm	2	—	53	48	bm	bcm	cm.ogm	*
	Liverpool (Bidston)	1020·9	53	ENE	4	m	1022·3	0	52	0	ESE	3	E	b	3	—	64	48	b	bm	cm	10·9
	Holyhead ...	1020·6	58	NE	3	bz	1018·7	+1	55	+2	ENE	4	—	cg	3	—	61	62	c.bcb	b	b.bc.c	11·8
	Pembroke (St. Ann's)	1016·5	67	E	3	bc	1016·2	0	55	+3	SE	5	E	cq	4	8	70	52	b	b	bc.tlr	14·1
	Scilly (St. Mary's)	1014·7	62	ESE	5	bc	1014·6?	-1	?57	+1	SE	2	S	om	4	—	65	54	c.bc	b.bc	bcl.cf	12·1
	Falmouth ...	1015·6	66	ENE	4	bz	1014·9	+2	57	-6	E	4	—	c	*	trace	68	54	b	b	b.bcp	14·3
	Jersey (St. Aubin)	1015·3	73	E	4	b	1016·5	*	64	-3	E	2	—	cp	2	10	81	60	b	b	tlrh.c	13·2
	Portland Bill ...	1017·7	59	ENE	3	bc	1017·7	0	55	-7	ENE	4	S	bc	3	7	64	52	bc	b.bc	bctlr	*
	Dungeness ...	1018·8	59	ENE	7	b	1019·4	-1	55	-8	E	6	E	bc	5	—	62	55	b	b	c.ofe	*
	Dover	1021·6	58	N	4	b	1021·7	0	56	-14	NE	4	—	c	4	—	73	48	b	b	b.bc.c	14·7
	Wick	1025·6	50	NE	3	c	1025·9	0	47	-3	SSE	3	—	o	3	trace	54	45	bcmcq	opq.c	c.bc.mo	*
	Nairn	1025·0	55	ENE	2	bc	1024·0	*	53	+3	-	0	—	bc	1	—	58	43	cg	c.bc	bcw	5·7
	Aberdeen ...	1025·5	56	N	2	bc	1027·0	+1	48	-3	SE	3	—	o	2	—	60	42	bcc	c.bc	bc.b.o	11·1
	Leith	1024·2	61	E	2	b	1024·9	0	51	-1	SE	2	NW	c	2	—	63	48	b	b	b.bc.cu	*
	Tynemouth ...	1025·7	54	NNE	1	b	1026·7	0	50	0	SE	2	SE	c	3	—	60	47	bm	b	c	*
	Spurn Head ...	1024·9	53	NE	4	bc	1026·4	0	50	-6	ESE	4	—	c	4	—	62	49	bcq	bc	b.c	8·4
	Yarmouth (Gorleston)	1023·1	53	NE	4	bc	1024·6	+1	53	-9	E	4	—	b	4	—	67	50	b	b.bc	bc	14·2
	Clacton-on-Sea	1022·5	58	ENE	3	bc	1022·8	0	56	-7	ENE	4	E	bc	3	—	65	51	b.bc.b	b.bc	bc.obc	14·1
	Nottingham ...	1023·0	57	ENE	4	b	1024·2	*	51	-5	E	2	E	c	*	—	68	47	bc.o	o.c.b	bc.oc	7·3
	Benson (Oxon.) ...	1019·0	75	ENE	4	c	1020·2	-1	54	-4	E	3	—	o	*	—	77	51	b	bc	bc	*
	Sth Farnborough	1018·5	74	E	4	b	1020·3	-1	55	-5	ENE	3	—	or	*	0·4	80	52	b	bz	b.or	13·9
	London (Kew Obsy.)	1020·5	66	E	5	bz	1021·3	-1	57	-2	ENE	5	—	om	*	—	76	52	bm.bz	bc.bcz.bz	bz.bcbz	12·0
NORTHERN EUROPE.	Spitsbergen ...	1012·4	28	—	0	m	1013·2	0	32		S	3	*	o	*	*	32	25				
	Vardö	1009·1	37	N	4	r	1014·3	+3	36	-3	N	6	—	o	5	*	41	37				
	Bodö	1017·9	43	SW	2	bc	1023·4	0	41	-4	SW	3	—	bc	2	—	46	39				
	Christiansund ...	1020·4	48	NNW	1	r	1027·1	+3	48	-2	—	0	—	c	2	1	50	46				
	Skudesnaes ...	1020·7	46	NNW	5	c	1026·4	+3	50	+2	NW	4	—	b	2	5	52	45				
	Færder (X'landa Fjord)	1012·7	54	NNE	2	o	1023·8	+5	55	+1	W	4	—	b	1	—	55	52				
	The Scaw (Skagen)	1013·5	52	W	4	o	1022·7	+6	54	+2	N	3	—	b	3	2	61	50				
	Blaavands Huk	1020·6	54	NNW	4	c	1025·2	?	54	-5	NNW	3	—	c	?	—	61	48				
	Copenhagen ...	1016·0	66	NW	4	c	1021·6	+4	57	-4	N	4	—	c	*	—	73	52				
	Bornholm ...	1016·8	59	WSW	3	m	1019·5	+3	54	-5	WNW	3	—	m	1	—	70	46				
FRANCE, &c.	The Helder ...	1022·6	55	N	4	c	1025·5	+1	54	-5	ENE	5	SW	b	2	—	66	54				
	C. Gris Nez ...	1020·4	59	NE	5	b	1020·4	-1	59	-5	E	4	*	o	3	—	70	52				
	La Hève	1017·1	72	NE	3	bc	1016·2	*	63	-1	NE	3	*	o	2	1	82	63				
	Brest (St. Mathieu)	1014·1	71	SE	4	bc	1016·2	+2	59	-12	SSE	4	*	o	3	—	81	57				
	Rochefort (Ile d'Aix)	1015·3	73	—	0	c	1015·9	+1	66	+2	SSE	3	*	b	*	—	84	63				
	Biarritz												*									
	Paris	1017·6	75	ENE	2	b	1018·9	+1	68	+2	SSE	1	—	c	*	—	86	61				
	Belfort	1019·5	77	W	4	c	1022·9	*	63	-3	—	0	*	o	*	36	86	58				
	Lyons							*					*		*							
	Nice	1020·3	72	—	0	c	1019·8	+1	74	+4	—	0	*	b	0	—	79	63				
	Perpignan ...	1019·0	73	SE	2	c	1018·9	+2	64	-6	S	1	S	r	*	Trace	79	61				
	Sanguinaire ...	1019·8	74	N	1	c	1019·1	*	74		E	2	*	m	1	6	84	61				
SOUTHERN STATIONS.	Corunna	1014·9	64	NW	2	o	1017·3	+2	66	+3	WNW	2	-	b	2	?	66	59				
	Madrid	1012·2	77	SSE	2	c	1018·4	+2	59		E	6	—	c	*	?	79	57				
	Lisbon	1014·7	68	W	3	o	1016·6	+1	61	+2	—	0	—	b	5	—	73	59				
	Azores (Horta) ...	1029·7	*	E	4	bc	1027·8	-1	61	+5	WSW	5	*	o	2	—	66	56				
	Madeira	1021·0	64	N	3	o	1022·1	0	61	2	NE	3	N	o	3	—	66	61				
	Gibraltar	1017·3	66	SE	3	b	1016·9	*	64	-1	E	1	*	m	2	—	69	63				
	Malta	*	*	*	*	*	1019·9?	+1	70	-2	ESE	1	—	bc	2	—	77	66				
	Limassol	*	*	*	*	*	1011·3	+1	81	0	W	1	—	b	2	—	86	61				
	Alexandria ...	1013·9	70	—	0	b	1013·6	0	70	-2	—	0	—	b	0	—	81	66				
	Cairo (Helwan) ...	1011·5	82	N	3	b	1012·8	+1	70	0	N	3	—	b	*	—	91	64				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 5th	Humidity. 9 h. 6th	Sunshine for 5th	24 Hours ended 9 h. 6th: Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	49	83	14·4	78	51	48	—	b	b	b.o
CITY (Bunhill Row)	*	*	13·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	51	81	13·2	79	52	50	—	bc	bc	o
CAMDEN SQ. (British Rainfall) ...	45	74	11·3	82	51	50	—	b	b	*
HAMPSTEAD (Reservoir)	*	80	14·2	75	47	39	—	bc	bc	o
S. KENSINGTON (Museum Grounds)	*	78	13·1	79	64	52	—	bz	bz	bbc.od

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 5th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1715	29·1	53·5

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

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

Issue No. 20,286. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.** 191[illegible]

Thursday 7TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Wednesday 6TH JUNE 191[illegible]

Thunderstorms occurred in Wales and Southern England during the night. Some rain fell at most stations except along the east coast, 14 mm. at Holyhead. Sunshine records were good, Yarmouth experiencing twelve hours.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Wednesday 6TH JUNE UP TO 7 h.

	STATIONS.	Sunshine for 5TH	Rainfall. Night, 7 h.-7 h.	Rainfall. Day, 7 h.-7 h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6th		STATIONS.	Sunshine for 5TH	Rainfall. Night, 7 h.-7 h.	Rainfall. Day, 7 h.-7 h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6TH	
			Mm.	Mm.	°F.	F.			Hr				Mm.	Mm.					Hr	
Scotland	Oban	13·1	–	–	62	47	c.bc	0p	4·0		Lowestoft	12·8	–	–	58	40	bc	bc	11·2	
	Banff	12·1	–	–	57	40	bc	bc	8·6		Felixstowe	13·8	–	–	62	50	bc	bc.b	10·6	
	Montrose	10·4	*	*	58	36	bc	bc	0·9		Walton-on-Naze									
	St. Andrews	15·1	–	–	55	39	0	c	4·7		Southend-on-Sea	14·4	–	–	65	51	o.c.bc	bc.b	6·8	
	Carnoustie		*	*	53	41	0	0f.c	2·4											
Eng. N.E.	Harrogate	9·5	–	–	60	42	c.bc.b	bc.c	5·0		Margate	13·9	–	–	60	49	c	b	7·1	
	Skegness	7·9	–	–	63?	50	o.bc	0	5·5		Hastings	15·6	,	*	73	51	b.o.bc	b	6·7	
Eng. N.W.	Morecambe	14·0	–	–	65	51			4·5		Eastbourne	14·[illegible]	–	–	65	52	b	b	7·6	
	Southport	14·2	–	0.3	66	48	c.o	or.c.bc	3·0		Sexford	13·9			77	51	r.c	o	6·8	
Midlands.	Leamington Spa										Brighton	10[illegible]	–	–	79	54	o.c	c.b	5·2	
	Malvern	14·3	0·3	1	69	48	o.c.bc	bc.b	3·0		Worthing	14·8	.2	–	77	54	c.b	b	6·1	
	Ross-on-Wye	14·5	2	–	70	48	d.r.bc	bc	4·3		Littlehampton	*	*	*	74	55	–	–	5·6	
											Bognor									
											Bournemouth	13·7	1	.	72	54	c.bc	bc	9·0	
Wales.	Rhyl	12·0	–	–	67	49	c.bc	c.o.bc	1·7		Weymouth		.		65	55	c.bc.b	bc.bcz	7·5	
	Colwyn Bay				69	52	b	bc	3·6		Torquay									
	Llandudno				69	52	c	r.b	3·7		Paignton	*	*	*	66	50	b	b	12·44	
	Aberystwyth		*	*	71	54	r.o.c	b.bc	5·0		Penzance	13·8	–	–	61	56	bc.c	o	3·1	
											Newquay	13·2	2	–	64	57	bq	bc.o	5·1	
											Bude									
											Ilfracombe	14·4	7	–	73	54	b	b	10·6	
											Weston-s-Mare	13·0	4	.	74	52	c.bc	b.bc	5·0	

REPORTS FROM FOREIGN STATIONS FOR Wednesday 6TH JUNE.

STATIONS.	Evening of 5TH: Barom. Mill. reduced to M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12	Weather.	Morning of 6TH: Barom. Mill. reduced to M.S.L.	Change in 3 hours.	Temp. Dew Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F						F.						°F	°F
Archangel	1015·4	61	ESE	2	r	1015·0	–3	59	+4	SE	3	c	–	*	48
Gorki	1018·9	57	–	0	b	1020·6	0	59	+5	–	0	b	–	*	45
Velikie Luki	1018·3	61	–	0	b	1017·0	.	63		SSE	3	b	–	*	52
Hango	1014·9	48	SSW	1	0	?		48	0	ESE	2	f	–	*	45
Riga	1017·3	57	–	0	b	1011·0	–1	59	0	SSW	3	r	3	*	55
Petrograd	1014·9	63	S	3	bc	1013·7	–1	55	+1	S	2	bc	–	63	50
Moscow	1017·0	61	NE	1	bc	1017·9	0	59	–2	NE	1	b	–	*	52
Kiev	1017·5	52	NW	2	0	1017·3	+2	57		N	2	0	3	*	52
Kharkov	1014·1	55	NW	2	0	1015·9	+3	55		NE	4	0	–	*	50
Kishinev	1019·8	61	NNW	3	0									*	
Elisabetgrad														*	
Nicolaiev							*							*	
Odessa														*	
Tarkhankut							*							*	
Soukhoum														*	
Venice	1020·2	77	NW	1	b	1020·3	*	75	+2	ENE	1	b	–	86	66
Pesaro						1020·9	*	70	+2	NW	1	b	–	77	57
Rome	1019·5	73	S	1	c	1019·8	*	73	0	N	1	b	–	84	64
Viesti	1020·3	70	WNW	1	b	1020·3	*	72	–3	WNW	1	b	–	77	66
Brindisi	1019·1	68	NW	2	b	1020·1	.	70	+2	NW	2	b	–	77	68
Cagliari	1017·7	75	SE	3	c	1017·7	*	66	+3	SE	3	c	–	77	55
Palermo	1018·6	73	–	0	b	1018·7	*	68	+2	–	0	b	–	79	59
Tripoli						1014·7	*	77	+2	NE	2	c	–	81	64
Algiers	1014·4	68	ENE	1	0	1015·4	+1	68	+2	W	3	m	–	75	64
Heruösand	1013·2	61	–	0	b	1018·1	*	52	–2	NNW	6	b	*	*	*
Stockholm	1012·0	61	SSW	2	0	1016·6	.	54	–1	N	6	b	*	*	*
Visby	1014·7	63	SW	2	bc	1015·0	.	48	–6	N	4	bc	*	*	*

ICELAND	Morning of 6TH: Barom. Mill. reduced to M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12	Rainfall. Millimetres.
		°F				
Isafjord	1015·9	48	+3	SW	2	0
Reykjavik	1017·0	48	+5	ESE	3	c
Vestmanna						
Seydisfjord	1019·0	48	+11	–	0	c
Thorshavn	1027·3	48	+5	SE	4	0

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE AND SUNSET FOR STATIONS IN THE BRITISH ISLANDS.

7TH and 8TH JUNE 191[illegible]	Sunrise	Noon.	Sunset
	h. m.	h. m.	h. m.
Yarmouth	3·33	11·51	8·10
	3·33	11·52	8·11
Greenwich	3·46	11·58	8·10
	3·46	11·59	8·11
Wick	3·11	12·10	9·10
	3·10	12·11	9·11
Valencia	4·24	12·39	8·55
	4·24	12·40	8·56

NOTE.—The information relating to weather is indicated by the following letters:—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling rain; f, fog; g, gloomy; h, hail; l, lightning; m, misty; o, overcast sky; p, passing showers; q, squalls; r, rain; s, snow; t, thunder; u, ugly threatening sky; v, visibility unusual transparent; w, dew; x, hoar frost; z, dust-fall, or rime.

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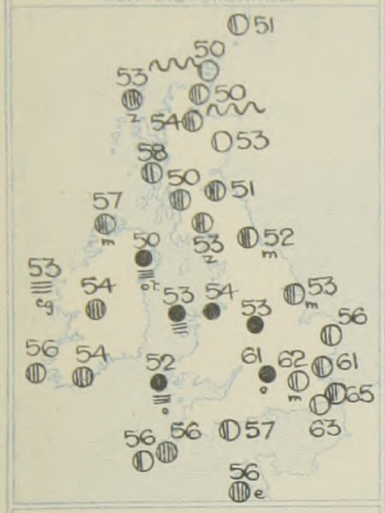
* The barometric charge is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

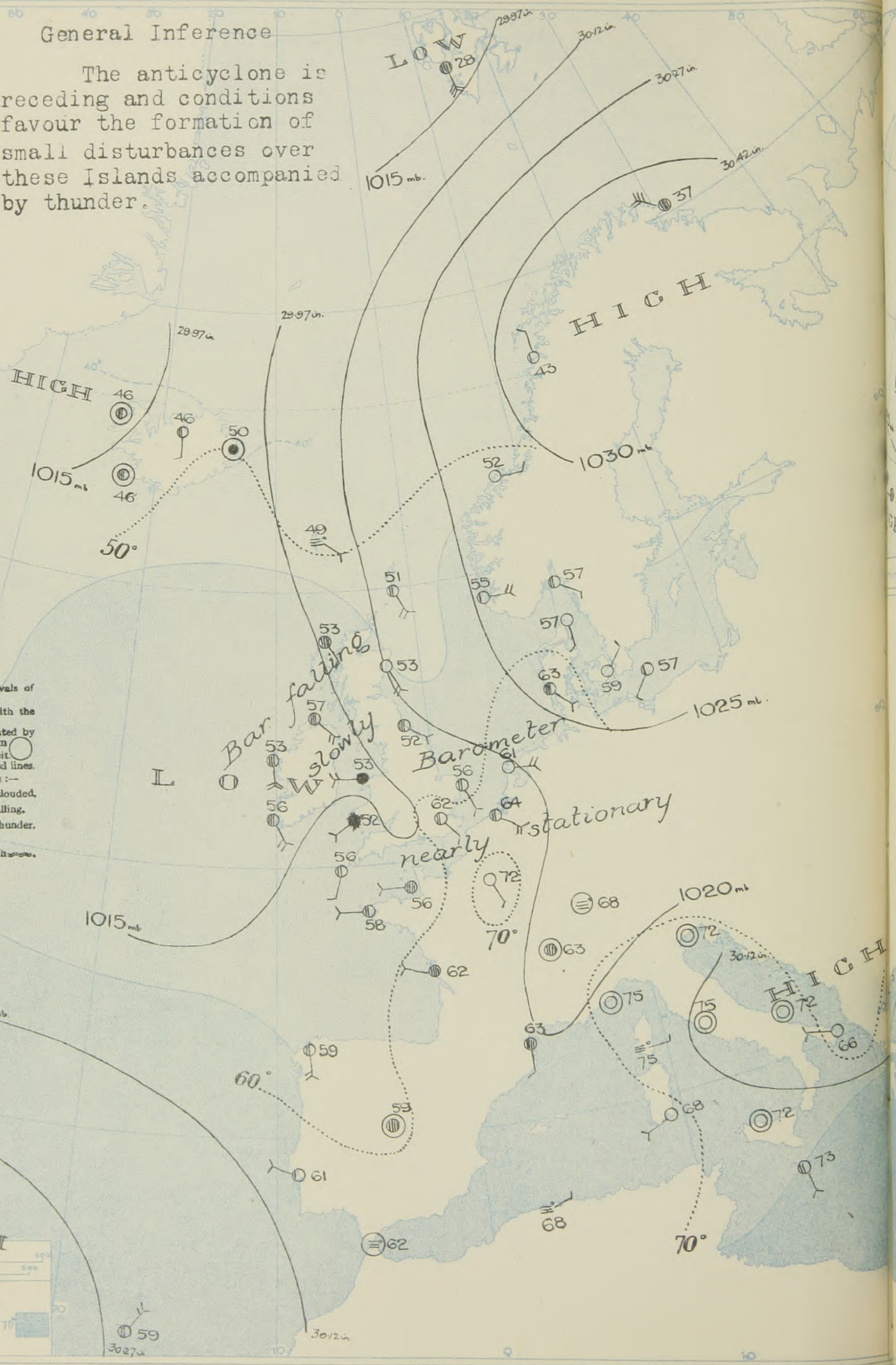


FORECAST DISTRICTS.

THE MORNING OF Thursday, 7th JUNE, 1917.

General Inference

The anticyclone is receding and conditions favour the formation of small disturbances over these Islands accompanied by thunder.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

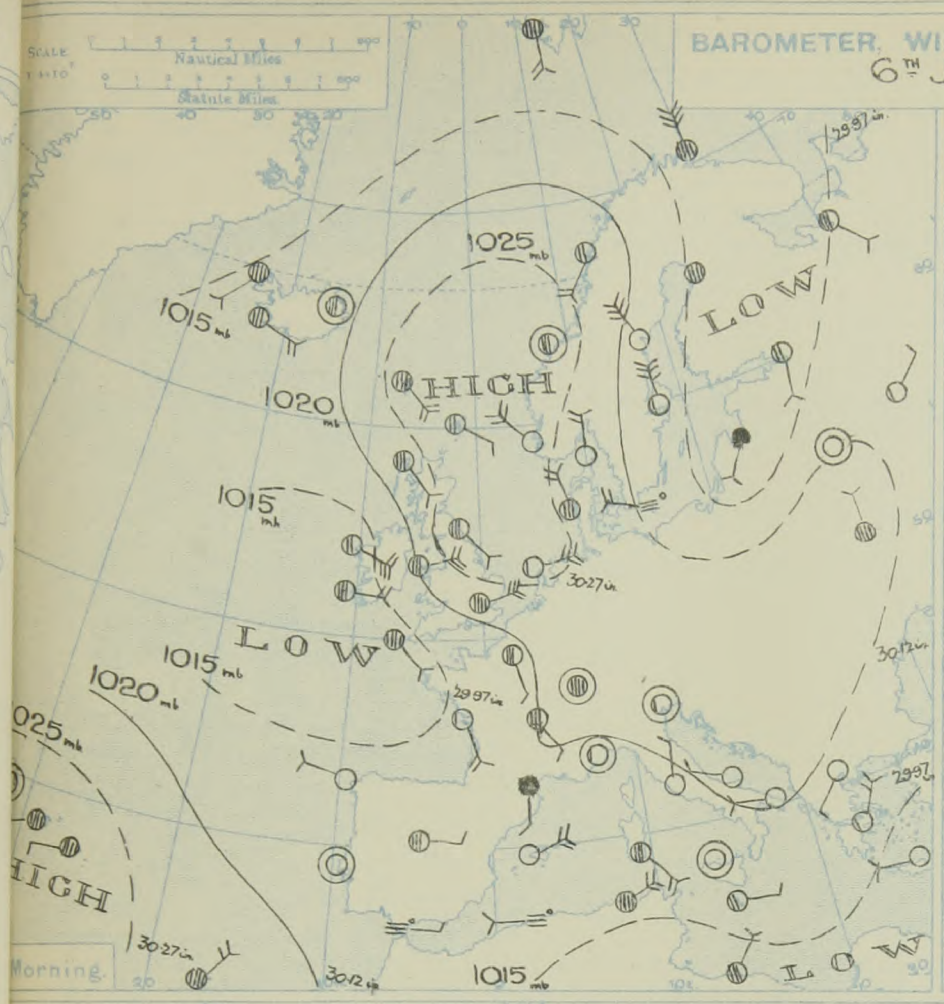
Scale 1:12 – 0 – 1 – 2 – 3 – 4 – 500
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

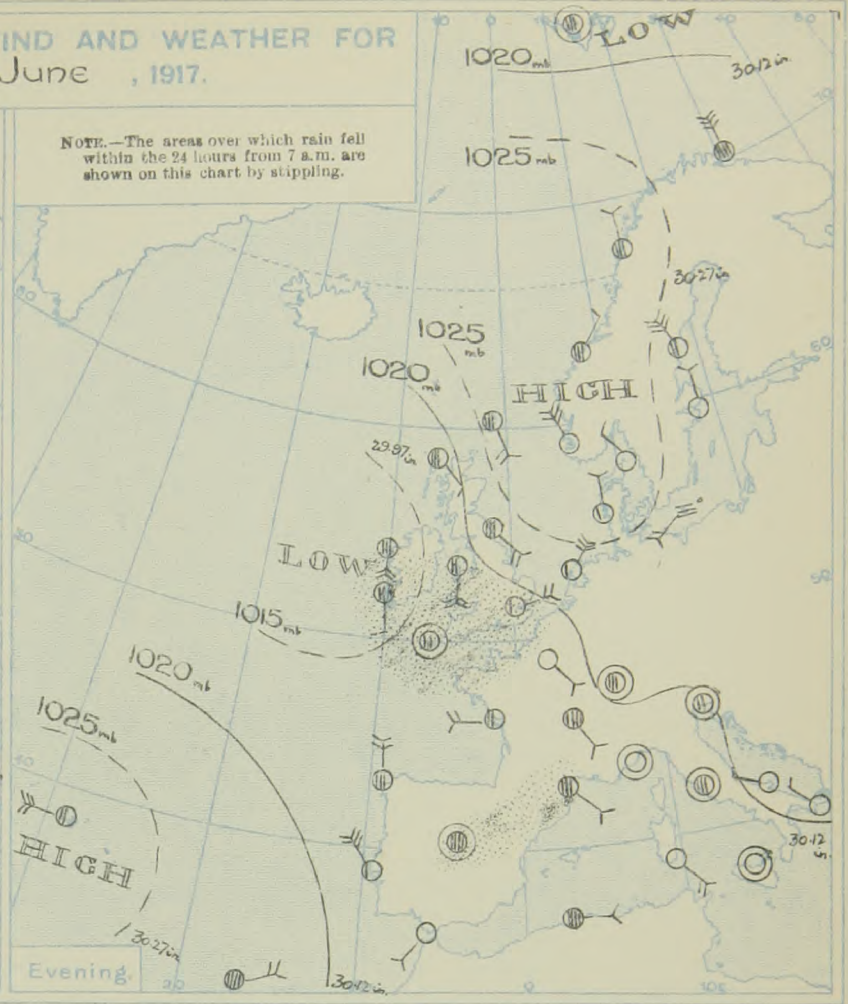
Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JUNE.

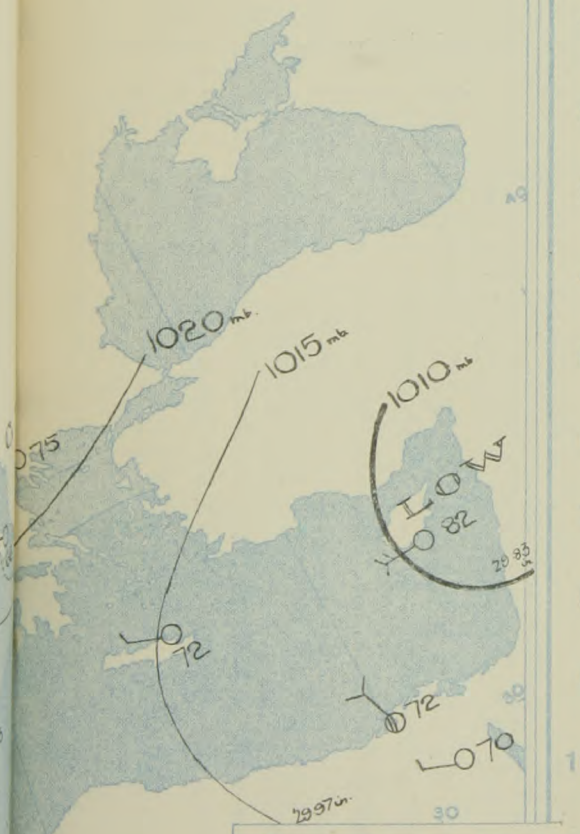
BAROMETER, WIND AND WEATHER FOR 6TH June, 1917.



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



Forecasts 18h. Thursday to 18h. Friday



0 a, b		
1		
2 a, b		
3	Light or moderate breezes, mainly from SE. and S; changeable, showery, local thunderstorms; normal temperature.	
4 a, b, c		
5		
6 a, b		
7 a, b		
8 a, b	Light or moderate breezes from between S. and W; sea smooth, changeable, showery, local thunderstorms, some fog at sea.	
9 a, b	Same as Nos. 0. to 7.	
10 a, b		
11	Same as No. 8	

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 158 { Thursday. 7th June

	STATIONS.	Evening of 6th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 7th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 a.m.: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 6th
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1025·8	52	ESE	3	c	1023·0	0	51	0	SSE	3	–	bc	3	–	59	49	bc	bc. c	bc	*
	Deerness (Orkney)	1022·3	50	SE	6	c	1019·3	*	50	+3	SE	6	SW	b	5	–	52	47	o.c.bc	bc. c	c.bc	6·1
	Stornoway ...	1017·2	59	SE	1	c	1015·5	−1	53	+3	SSE	1	–	oz	0	–	60	50	bv	bcr	c.oz	5·6
	Castlebay (Barra Isd.)																					
	Glasgow ...	1020·0	SH	ENE	4	omg	1017·5	−2	50	+1	ENE	3	S	c	*	1	59	47	cbc.c.o	omdp	omc p	3·9
	Eskdalemuir ...	1021·2	55	E	2	o	1017·8	−2	53	+5	NNE	2	S	cz	*	–	62	43	bc.byz	cyz. oz	cz.bcz	6·6
	Malin Head ...	1014·4	56	NE	6	bcmq	1013·5	−1	57	+4	SE	3	SE	cm	3	–	57	52	mq	bcmq	cm	3·8
	Blacksod Point	1010·8	59	S	4	cmg	1010·8	−2	53	−3	S	4	S	cfg	3	1	66	52	cmptl	bmq	ofe.om	*
	Valencia (Cahirciveen)	1013·0	56	S	1	o	1012·1	−1	56	−5	SSE	3	SW	c	3	0·3	65	54	cz	c. o	odp. c	4·3
	Roche's Point	1014·8	54	SE	3	f	1014·7	*	54	−3	S	2	–	o	2	0·2	57	53	omf	b	fd. om	*
	Birr Castle ...	1013·2	60	SE	1	c	1013·5	*	54	−4	SE	1	–	o	*	2	61	53	o.c. o	o. c	c. op	4·1
	Donaghadee ...	1016·7	52	ESE	3	egf	1014·7	o	50	+1	SE	3	–	ofrt	2	0·3	55	49	ogm	ogq	of	*
	Liverpool (Bidston)	1018·2	64	ESE	4	c	1015·7	−0·	54	+2	E	2	E	r	2	4	65	52	bc. o	o.bc	o. r	3·1
	Holyhead ...	1016·4	71	S	4	bcg	1014·7	−1	53	−2	W	3	–	fr	1	14	71	53	cpopb	b bc cb	cftlr	5·8
	Pembroke (St Ann's)	1016·9	57	ESE	2	e	1017·0	+2	52	−3	SW	2	–	ofr	2	9	63	51	bcq	bcq. c	btrf	8·5
	Scilly (St. Mary's)	1017·2	59	–	0	c	1016·9	0	56	−1	SSW	1	SW	bc	3	1	61	54	f	ome	om. opf	0·4
	Falmouth ...	1016·5	57	SE	2	om	1016·6	+2	56	−1	SW	3	–	o	*	8	61	54	bc.b.o	o.ol	or. o	3·5
	Jersey (St. Aubin)	1016·6	63	WNW	2	ot	1017·8	*	56	−8	W	2	–	ofe	1	1	80	52	pcb	btlr	c.ofe	6·8
	Portland Bill ...	1017·2	56	ENE	3	bc	1015·6	−1	57	+2	ENE	1	–	bc	2	1	58	53	bc	bc. c	bcp	*
	Dungeness ...	1017·7	61	NE	4	b	1016·1	0	63	+8	–	o	–	b	1	0·4	66	55	c.b	bc	cltp. b	*
	Dover	1018·6	65	NE	5	bc	1016·6	0	65	+9.	S	1	–	c	1	2	66	56	bc. b	bc	bc.cpr	9·0
	Wick	1021·3	49	SSE	5	c	1018·8	+1	50	+3	SE	5	SW	c	5	–	51	46	o.bcm	bcm. c	cmq	*
	Nairn	1019·0	68	S	1	bc	1017·8	*	54	+1	SSE	1	–	c	1	–	72	47	bc	bc	bcr.o	9·0
	Aberdeen ...	1024·6	50	SE	4	c	1021·0	−1	53	+5	SSE	3	–	b	2	–	54	48	o. c	o. c	c.o.bc	2·5
	Leith	1020·9	63	E	2	o	1018·1	−1	51	0	SE	1	SE	c	2	–	59	49	c.bc. c	c bc.c.o	o.c.o.c	*
	Tynemouth ...	1023·7	51	SE	3	cq	1019·3	−2	52	+2	ESE	2	E	cm	3	–	54	48	bc	cq	cm	*
	Spurn Head ...	1023·4	52	ESE	4	cq	1018·3	−2	53	+3	ESE	3	–	cm	4	–	57	49	cq	cq	cp	5·0
	Yarmouth (Gorleston)	1021·3	SH	E	5	b	1017·8	0	56	+3	SSE	2	–	bc	4	–	56	53	bc	bc	bc	11·8
	Clacton-on-Sea	1019·8	62	ENE	4	c	1016·6	−1	61	+5	E	2	–	c	1	0·2	62	56	bc	bc. c	curp. c	11·3
	Nottingham ...	1020·4	59	E	3	bc	1016·9	*	53	+2	NNE	1	S	r	*	6	63	50	c. o	op. c	cp	4·7
	Benson (Oxon.) ...	1018·0	64	E	3	bc	1015·3	o	61	+7	SE	2	–	or	*	0·4	72	53	c	bc	bcl. o	*
	Sth Farnborough	1017·7	66	ENE	3	bc	1015·9	o	63	+8	SE	2	–	cm	*	2	70	54	op. c	c. bc	bc.alopr	5·2
	London (Kew Obsy.)	1018·5	67	ENE	4	bz	1016·8	+1	62	+5	SE	1	S	bcm	*	1	68	57	bz	chir. op. o	bc.bz c.m. om	4·9
NORTHERN EUROPE.	Spitsbergen ...	1016·8	30	–	o	c	1013·1	−3	28	−4	S	5	*	o	*	*	34	27				
	Vardö	1023·4	34	N	6	o	1031·3	+5	37	+1	NW	5	–	o	3	*	37	34				
	Bodö	1029·9	41	N	2	c	1031·5	+1	43	+2	N	1	–	b	1	–	45	37				
	Christiansund ...	1029·0	54	NE	1	c	1027·7	o	52	+4	E	1	–	b	2	–	54	45				
	Skudesnaes ..	1026·3	54	NNW	5	b	1026·5	o	55	+5	E	3	–	b	2	–	54	45				
	Færder (X'ianiaFjord)	1025·2	57	WSW	3	b	1027·7	+1	57	+2	ESE	1	–	bc	1	–	61	52				
	The Scaw (Skagen)	1026·6	59	NW	1	b	1027·3	+1	57	+3	S	1	–	b	1	–	63	46				
	Blaavands Huk	1026·7	61	N	2	b	1026·6	?	63	+9	SE	2	NW	c	?	–	64	46				
	Copenhagen ...	1025·1	63	N	3	b	1026·7	o	59	+2	NE	1	–	b	*	–	64	50				
	Bornholm ...	1024·7	57	SW	3	m	1026·6	+1	57	+3	SW	1	–	b	o	–	64	50				
FRANCE, &c.	The Helder ...	1022·4	61	NE	6	b	1019·8	−1	61	+7	E	3	SW	b	1	–	63	54				
	C. Gris Nez ...	1017·7	67	E	4	c	1016·8	o	67	+8	S	1	*	bc	1	15	66	59				
	La Hève	1018·0	77	W	4	tlr	1017·1	*	61	−2	SE	2	*	bc	1	4	82	61				
	Brest (St. Mathieu)	1017·2	58	NW	3	o	1018·9	+2	58	−1	W	2	*	bc	2	1	64	55				
	Rochefort (Ile d'Aix)	1016·6	66	W	3	bc	1019·1	+3	62	−4	WNW	2	*	o	*	–	73	61				
	Biarritz												*									
	Paris	1017·0	79	SE	2	bc	1018·4	+1	72	+4	SSE	1	–	b	*	–	84	63				
	Belfort	1020·3	75	–	o	c	1022·0	*	68	+5	–	o	*	m	*	–	83	60				
	Lyons	1019·3	70	SSE	2	o	1020·8	*	63	·	–	o	*	o	*	–	84	60				
	Nice	1019·7	72	–	o	b	1019·7	+1	75	+1	–	o	*	b	o	–	81	63				
	Perpignan ...	1018·3	72	SE	2	c	1019·9	+2	63	−1	S	1	*	o	*	2	77	57				
	Sanguinaire ...	1018·9	77	W	3	m	1019·0	*	75	+1	E	1	*	m	1	–	84	63				
SOUTHERN STATIONS.	Corunna	1018·9	63	N	4	c	1019·4	+1	59	−7	S	3	SW	bc	2	–	68	52				
	Madrid	1015·3	68	–	o	o	1019·8	+2	59	o	–	o	–	o	*	3	70	54				
	Lisbon	1017·3	66	NW	5	b	1019·3	+1	61	o	WNW	2	–	b	5	–	70	59				
	Azores (Horta) ...	1027·5	*	WSW	5	bc	1025·6	o	62	+1	WSW	5	*	r	3	1	68	63				
	Madeira	1023·3	66	NE	3	o	1024·2	o	59	−2	NE	3	N	bc	3	–	66	59				
	Gibraltar	1017·6	64	SW	2	b	1017·9	*	62	−2	–	o	*	m	2	–	73	60				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1009·9	o	82	+1	W	3	–	b	2	–	91	59				
	Alexandria ...	1014·4	70	N	2	b	1013·7	+1	72	+2	NNW	2	NW	b	1	–	81	68				
	Cairo (Helwan) ...	1011·7	84	N	4	b	1013·2	+1	70	o	NW	1	–	b	*	–	93	64				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 6th	Humidity. 9 h. 7th	Sunshine for 6th	24 hours ended 9 h. 7th: Temperature. Max.	Temp. Min.	Temp. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	62	70	5·8	72	54	46	1	o	c. bc	bc. or. cd
CITY (Bunhill Row)	*	*	4·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	61	78	4·4	70	58	54	1	op bc	bc	rm
CAMDEN SQ. (British Rainfall) ..	57	69	4·8	72	56	54	1	o. c	c. bc	*
HAMPSTEAD (Reservoir)	*	74	4·9	67	57	45	1	o. bcp	b. c	cp
S. KENSINGTON (Museum Grounds)	*	81	4·3	70	59	55	1	od. o	b. bc. bz	bc. o. or. o. c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 6th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
? 1369	23·2	? 73

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

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

Issue No. 20287 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Friday 8TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Thursday 7TH JUNE 1917.

The day was rather warm in the south-east of England, and some local thunderstorms occurred in the morning. There was much fog and some rain in the north and west, but sunshine records were again good.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Thursday 7TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 6TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 7TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	4·0	–	1	63	54	bc	p.b	1·9
	Banff	8·6	–	–	62	48	bc	bc .c	6·5
	Montrose	0·9	*	7*	54	44	bc	o	3·0
	St. Andrews	4·7	–	4	55	47	o	p	0·0
	Carnoustie		*	*	54	48	or.	r	0·1
Eng. N.E.	Harrogate	6·3	5	3	65	45	tlro	c.o	1·6
	Skegness	6·0	1	5	67	53	r.or	b.o	3·5
Eng. N.W.	Morecambe	6·0	4	1	63	54			2·0
	Southport	4·6	18	–	63	51	r.o.c	bc.c.b	4·5
Midlands.	Leamington Spa								
	Malvern	3·0	11	7	70	53	tlr. o	c.bc.b	6·0
	Ross-on-Wye	6·5	8	–	72	54	c.tlr.b	bc.c	5·6
Wales.	Rhyl	2·7	1	–	66	54	bc	c.p	2·2
	Colwyn Bay		–	–	66	55	c	b	5·5
	Llandudno		*	*	65	55	c	c.b	4·0
	Aberystwyth		*	*	65	53	r.o.c	b.bc	4·0
England, E.	Lowestoft	15·1	–	–	69	55	c	c	9·5
	Felixstowe	11·7	–	–	68	55	bc	bc	10·1
	Walton-on-Naze	11·7	Trace	–	69	57	b bc	b.bc.b	8·9
	Southend-on-Sea	8·0	2	–	80	56	bc.b	b	8·0
England, S.E.	Margate	8·7	1	–	78	55	bc.b	b	9·3
	Hastings	8·7	7*	*	68	59	tlr. bc	b	9·1
	Eastbourne	9·2	17	–	68	58	o.bc.b	b	10·6
	Seaford	8·3			74	57	bc	o	10·5
	Brighton								
	Worthing	7·7	4	–	68	58	b	b	9·5
	Littlehampton				66	58	b	b	10·0
	Bognor								
	Bournemouth	9·0	*	*	71	54	c.bc	b	9·0
England, S.W.	Weymouth		*	*	66	54	c.bc	bz	9·0
	Torquay		1	–	66	54	c.bc.b	b bc	8·3
	Paignton								
	Penzance	3·1	7	–	62	57	c.bc	bc	10·0
	Newquay	5·1	11	–	66	53	b	b	9·8
	Bude		6	–	65	54	b	b	9·0
	Ilfracombe	10·6	3	–	62	53	f. b	b	7·6
	Weston-s-Mare	5·0	1	*	67	53	bc. b	b	7·0

REPORTS FROM FOREIGN STATIONS FOR Thursday 7TH JUNE

	STATIONS.	Evening of 6TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 7TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1015·5	+3	59	0	ESE	3	bc	–	*	54
	Gorki						1014·7		50	– 9	NW	2	c	4	*	50
	Velieki Luki	1011·5	55	S	2	o		*							*	
	Hangö	1015·3	50	NNW	4	c	1025·6		45	– 3	NNW	6	b	1	*	41
	Riga	1017·2	50	WNW	5	o									*	
	Petrograd	1008·2	55	SSE	3	r	1008·4	+2	55	0	SE	3	bc	2	68	52
	Moscow	1014·7	66	SW	2	bc	1013·1	+1	63	+4	WSW	2	c	–	*	57
	Kiev	1018·0	61	S	2	o	1016·2	+1	59	0	NNW	5	bc	–	*	57
	Kharkov	1018·4	55	–	0	b	1017·5	0	57	0	–	0	b	9	*	46
	Kishinev														*	
	Elisabetgrad						1017·1	–1	59		N	1	b	1	*	?
	Nicolaiev	1018·1	66	–	0	b	1017·7	*	63		–	0	b	–	*	52
	Odessa	1019·4	68	NNE	2	c	1017·5	–1	68		NE	2	b	–	*	61
	Tarkhankout	1020·8	63	W	3	b		*							*	
	Soukhoum														*	
Mediterranean.	Venice	1019·0	77	SW	1	b	1019·8	*	72	–3	E	1	c	–	86	66
	Pesaro	1020·2	72	S	1	b	1020·7	*	70	0	N	1	b	–	81	59
	Rome	1023·9	75	W	1	c	1020·3	*	75	+2	N	1	b	–	84	66
	Viesti	1020·9	72	WNW	1	b	1021·5	*	72	0	E	1	b	–	79	66
	Brindisi	1020·3	68	SSW	1	b	1020·2	*	66	–4	NW	2	b	–	70	66
	Cagliari	1016·3	75	SE	3	b	1016·5	*	68	+2	WSW	2	b	–	79	57
	Palermo	1018·9	73	–	0	b	1019·8	*	72	–6	–	0	b	–	82	61
	Tripoli						1016·0	*	73	–4	S	2	bc	4	82	64
	Algiers	1015·8	66	E	2	o	1015·9	+2	68	0	ENE	1	m	9	73	?63
Sweden.	Hernösand	1023·5	52	NNW	6	bc	1027·3	*	50	–2	NE	4	b	*	*	*
	Stockholm	1022·7	57	N	2	b	1026·0	*	50	–4	NE	4	b	*	*	*
	Wisby	1024·3	52	NW	2	b	1025·9	*	48	0	NE	4	b	*	*	*

Morning of 7TH

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1015·7	46	–2	–	0	c
Reykjavik	1011·0	46	–2	–	0	c
Vestmanna						
Seydisfjord	1013·6	50	+2	–	0	r
Thorshavn	1018·5	49	+1	SE	2	m

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

8TH and 9TH JUNE 1917.	Sunrise.	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3·33 / 3·33	11·52 / 11·52	8·11 / 8·12
Greenwich	3·46 / 3·46	11·59 / 11·59	8·11 / 8·12
Wick	3·10 / 3·9	12·11 / 12·11	9·11 / 9·12
Valencia	4·24 / 4·24	12·40 / 12·40	8·56 / 8·57

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

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 8TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

General Inference

There are no indications of any important change in the general situation. Quiet conditions will continue for the present.

LOW

1010mb

Barometer steady

Barometer rising

HIGH

1025mb

1020mb

1015mb

1030mb

29.83in.

29.97in.

30.12in.

30.27in.

30.42in.

EXPLANATION.

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

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

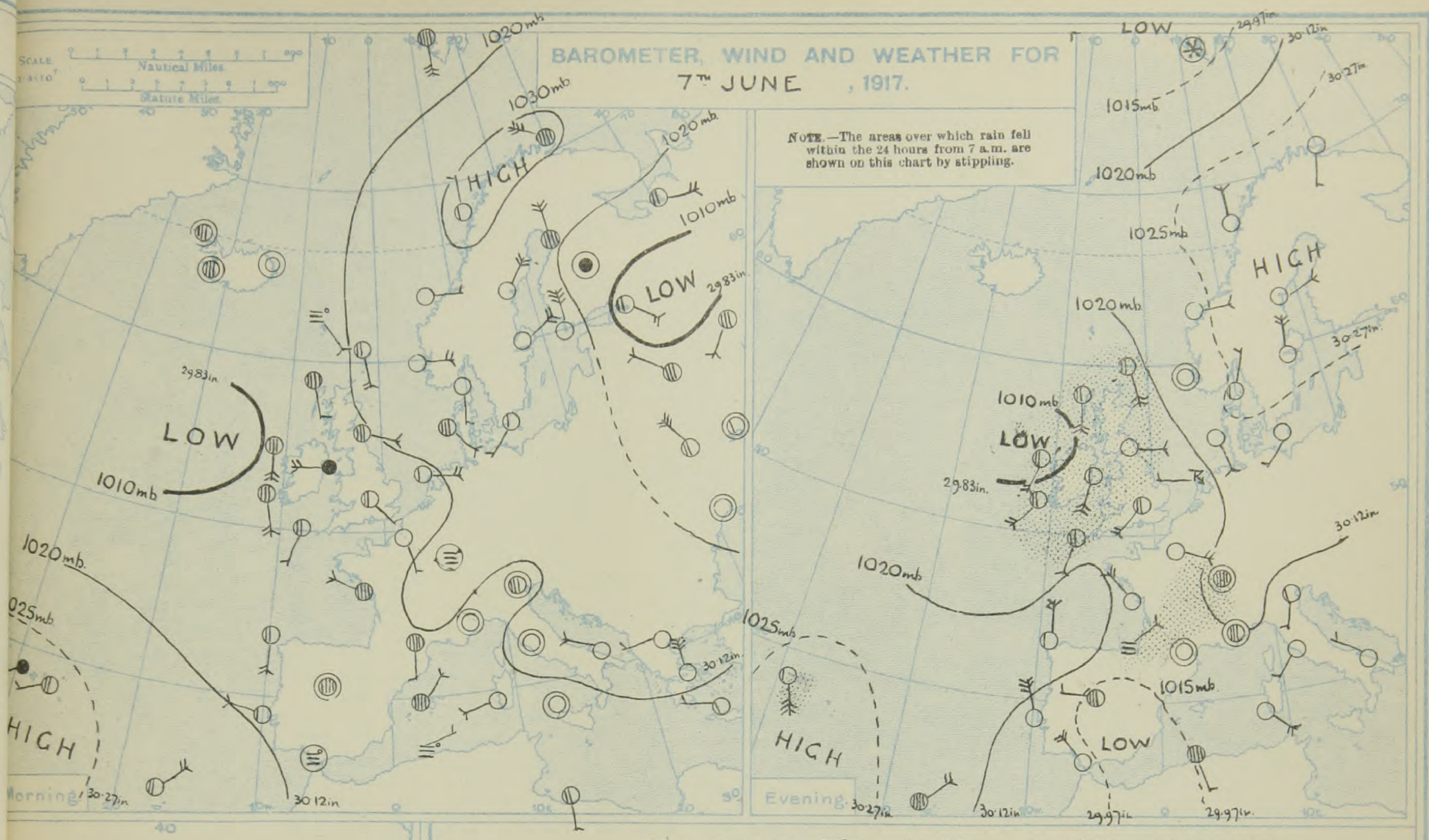
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

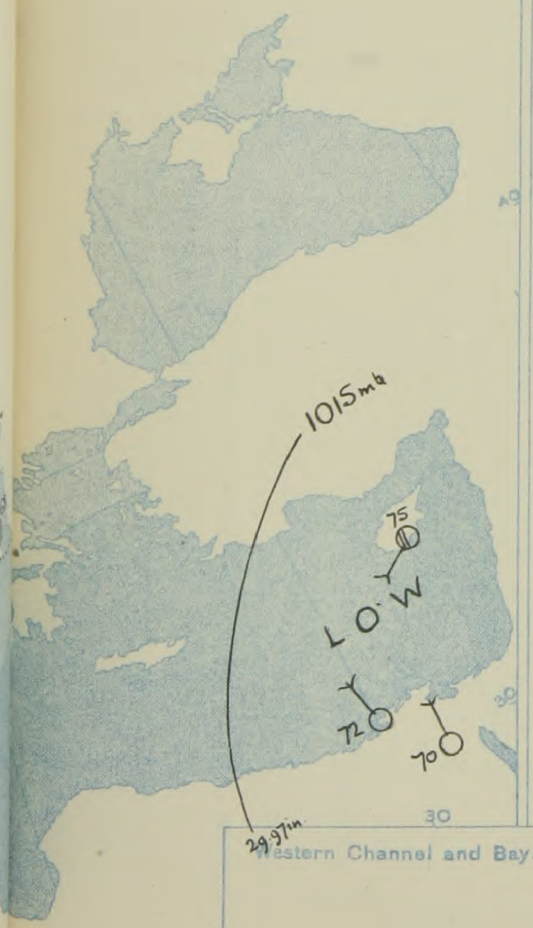
WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. • rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ~~.

Scale 1:13,410,000
Nautical Miles 0 100 200 300
Statute Miles 0 100 200 300 400 500

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





Forecasts 18h. Friday to 18h. Saturday

0 a, b } Light to moderate S. or SW. breezes; fair generally, local showers, some mist or fog; normal temperature.

1
2 a, b
3
4 a, b, c
5 } Light variable breezes, fair generally, but local showers, perhaps thunder; rather warm.

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

8 a, b } Same as 1-5

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

11 Same as Nos. 1-5. Sea smooth.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 150. Friday. 8th June

	STATIONS	EVENING OF 7th					MORNING OF 8th								24 HOURS ENDED 7 A.M.					Sunshine for 7th
		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 ...	1019·7	54	SSE	4	bc	1017·4	0	51	0	S	2	—	f	2	3	58	50	bc	bc	orf	*
	Deerness (Orkney)	1015·9	51	SE	5	mr	1015·6	*	48	−2	SE	3	—	f	2	1	55	46	bc	bc.cmr	of	9·0
	Stornoway ...	1011·6	56	S	4	bc	1013·7	+1	54	+1	SW	3	—	bc	3	2	65	50	o.czp	or.bc	b.bc	3·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1014·8	59	SSW	1	cm	1016·0	0	56	+6	S	4	—	cm	*	6	60	49	c.omr	omr.c	bc.b.bc	2·2
	Eskdalemuir ...	1015·6	59	SSW	4	bcv	1018·2	+2	52	−1	SSE	1	—	or	*	7	60	50	c.o.olr	obm.bc	bc.o.or	2·0
	Malin Head ...	1009·0	60	SW	4	bcq	1012·5	0	50	−7	SSE	4	SW	bcq	3	8	60	48	onr	bcq	bcq	1·5
	Blacksod Point	1008·8	55	SSW	3	bc	1010·1	−1	51	−2	SSW	5	SW	bcp	5	4	61	50	cq	omr	bc	*
	Valencia (Cahirciveen)	1012·7	57	SW	3	bc	1016·8	+2	54	−2	SSW	3	SW	c	4	4	59	49	c.edp	or.c.bc	bc.b.bcc	2·9
	Roche's Point	1013·9	55	SSW	4	o	1018·3	*	54	0	SW	2	—	o	2	0·4	60	48	om.bc.c	c.of.om	md.c.o	*
	Birr Castle ...	1011·3	60	SE	1	o	1016·9	*	52	−2	S	1	S	bc	*	3	65	44	c	c.o	op.bc	3·2
	Donaghadee ...	1013·0	56	SSW	4	c gm	1015·7	+3	52	+2	S	3	—	ogm	2	17	61	48	ofrem	bcm	of.omp	*
	Liverpool (Bidston)	1016·4	63	NW	1	b	1018·5	+1	57	+3	ESE	2	E	bc	1	1	65	52	op	b	b.bc	7·2
	Holyhead ...	1016·2	57	SSW	4	b	1017·4	+1	53	0	S	4	—	fe	3	4	60	52	frr.c	c.bc.b	b.fe.p	7·4
	Pembroke (St. Ann's)	1017·4	55	S	2	b	1019·1	+1	52	0	WNW	2	—	o	2	9	57	51	fr.fb	d	fr.o	7·0
	Scilly (St. Mary's)	1017·7	59	SSW	2	bc	1020·2	+1	55	−1	NW	1	—	om	3	0·4	62	54	bc.cm	cm.bcm	ompd	13·0
	Falmouth ...	1018·4	60	SSW	1	bc	1019·2	+1	58	+2	SSW	1	—	o	*	—	64	55	c.bc	bc	bc.o	10·0
	Jersey (St. Aubin)	1019·2	63	ESE	2	b	1020·9	*	58	+2	NNE	1	—	o	1	—	67	53	flc.b	b	o.bw.o	7·8
	Portland Bill ...	1018·3	55	WSW	3	b	1020·1	+1	55	−2	E	1	SW	bc	2	—	58	52	bc	bo	b.bc	*
	Dungeness ...	1017·6	56	SW	3	bc	1019·1	0	61	−2	WSW	1	—	b	1	—	66	56	bc	bc	bc.b.c	*
	Dover	1017·9	58	S	2	b	1019·7	+1	67	+2	NW	2	—	b	2	—	72	?	b	b	b	12·2
	Wick	1015·4	49	SE	3	r	1016·1	0	49	−1	SSE	2	—	fe	2	2	51	45	bcq.bc	bc.omr	omr.fe	*
	Nairn	1013·7	64	S	3	bc	1014·6	*	60	+6	—	0	—	bc	0	1	66	49	cpg	bcp	bcw	6·7
	Aberdeen ...	1016·7	51	SE	1	omp	1017·4	+1	55	+2	S	2	S	bm	2	3	58	49	bc.c.op	or.o	opm.bm	7·0
	Leith	1014·5	54	—	0	bc	1016·4	0	55	+4	E	1	—	o	1	6	56	49	or.o	o.c.o.bc	bc.cm.o	*
	Tynemouth ...	1016·1	53	E	2	bm	1018·7	+1	57	+5	ESE	1	—	bm	3	1	57	50	omp	bcm	bm	*
	Spurn Head ...	1017·4	59	SSE	3	cm	1019·9	+1	56	+3	W	1	—	cm	3	11	61	52	cm	bcm	c	4·0
	Yarmouth (Gorleston)	1015·9	64	S	3	bc	1017·4	+1	64	+8	NW	2	—	bcm	2	—	70	56	b	bc	bcm	10·3
	Clacton-on-Sea	1016·7	66	SSE	2	bc	1019·9	+2	63	+2	WNW	2	SE	bc	1	—	68	58	b.bcz	bcz	bcz	9·5
	Nottingham ...	1016·0	70	SW	2	b	1019·9	*	58	+5	SW	1	SW	b	*	2	74	51	or	o.c.b	b	3·7
	Benson (Oxon.) ...	1016·8	73	WNW	3	c	1020·5	+1	62	+1	—	0	W	bc	*	0·1	76	47	c	c	bc	*
	Sth'Farnborough	1016·5	74	SW	4	bc	1020·5	+2	59	−4	WNW	2	S	bcw	*	—	78	47	c.o.bc.c	c.bc	bc.bw.	9·9
	London (Kew Obsy.)	1016·7	74	SW	3	bc	1020·7	+2	60	−2	WSW	1	SW	bm	*	Trace	78	54	bcm.c	c.cp.c.bc	bc.bm	7·9
NORTHERN EUROPE.	Spitsbergen ...	1012·8	30	—	0	S	1014·9	+1	32	+4	W	6	*	o	*	*	36	25				
	Vardö	1027·1	36	SSW	1	b	1031·1	−4	39	+2	SSE	5	—	bc	3	*	39	34				
	Bodö	1028·8	45	N	2	b	1024·4	0	54	+11	E	2	—	b	2	—	?	?				
	Christiansund ...	1024·6	59	E	2	b	1024·0	0	61	+9	—	0	—	b	2	—	61	50				
	Skudesnaes ..	1023·5	59	—	0	b	1023·7	0	61	+6	ESE	4	—	b	2	—	61	50				
	Færder (X'tania Fjord)	1025·0	59	W	1	b	1027·9	+1	59	+2	E	1	—	b	1	—	61	55				
	The Scaw (Skagen)	1025·1	59	NNE	1	b	1026·7	+2	57	0	ESE	3	—	b	3	—	61	55				
	Blaavands Huk	1022·1	70	SSE	2	b	1022·6	?	61	−2	ESE	3	—	b	?	—	72	50				
	Copenhagen ...	1023·8	64	S	2	b	1025·7	+1	57	−2	SE	3	—	b	*	—	68	52				
	Bornholm ...	1023·8	61	SW	1	b	1025·0	+1	55	−2	ENE	3	—	b	1	—	63	48				
FRANCE, &c.	The Helder ...	1017·6	73	W	1	tkr	1019·4	0	63	+2	—	0	SW	bc	0	—	79	61				
	C. Gris Nez ...	1018·1	59	SSW	4	b	1020·2	+1	57	−10	SSW	2	*	b	2	—	68	52				
	La Hêve	1019·5	64	NNW	3	b	1021·1	*	56	−5	N	3	*	m	2	—	70	54				
	Brest (St. Mathieu)	1020·7	64	SSW	3	b	1021·6	+1	61	+3	S	1	*	c	2	—	70	57				
	Rochefort (Ile d'Aix)	1019·3	64	NW	3	o	1019·5	+1	62	0	NNW	3	*	o	*	—	72	61				
	Biarritz	1017·7	64	NE	2	f	1019·4	+1	63		—	0	*	f	1	11	75	61				
	Paris	1018·4	75	NW	2	tkr	1020·6	+1	64	−8	NNE	1	—	o	*	Trace	84	59				
	Belfort	1020·3	72	—	0	o	1021·1	*	67	−1	E	2	*	m	*	1	85	58				
	Lyons	1018·0	74	—	0	b	1019·1	*	69	+6	—	0	*	b	*	4	82	58				
	Nice	1020·0	72	—	0	c	1018·0	−1	74	−1	—	0	*	b	0	—	81	63				
	Perpignan ...	1017·5	74	E	2	b	1018·0	0	70	+7	—	0	—	b	*	—	79	55				
	Sanguinaire ...	1019·0	74	WSW	3	m	1019·4	*	76	+1	E	2	*	b	1	—	86	68				
SOUTHERN STATIONS.	Corunna	1020·7	64	N	3	b	1021·6	+2	64	+5	SSW	1	—	b	1	—	66	55				
	Madrid	1014·9	72	W	1	c	1017·6	+1	63	+4	NNE	2	—	c	*	—	73	54				
	Lisbon	1018·4	66	NNW	5	b	1019·1	+1	63	+2	NNW	2	—	b	5	—	70	59				
	Azores (Horta) ...	1026·0	*	S	5	b	1027·8	0	59	−3	NNW	3	*	b	1	1	70	57				
	Madeira	1024·2	64	NE	3	o	1023·0	0	63	+4	NE	3	—	o	3	—	64	59				
	Gibraltar	1018·3	67	NW	4	b	1018·3	*	63	+1	NW	3	*	m	1	—	71	61				
	Malta	*	*	*	*	*	1018·4	+2	70		ESE	2	—	f	1	—	75	66				
	Limassol	*	*	*	*	*	1010·3	0	75	−7	WSW	2	S	bc	3	—	91	61				
	Alexandria ...	1013·1	72	NNW	2	b	1013·0	0	72	0	NNW	2	—	b	1	—	81	68				
	Cairo (Helwan) ...	1011·5	81	NW	3	b	1012·4	+1	70	0	N	2	—	b	*	—	91	66				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

24 HOURS ENDED 9 h. ... 8th June

	Humidity. 15 h. 7th	Humidity. 9 h. 8th	Sunshine for 7th	Temperature. Max.	Temperature. Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	57	65	10·8	83	54	40	—	bc	bc	b.bc
CITY (Bunhill Row)	*	*	7·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	66	75	8·4	79	54	48	—	bc	bc	b
CAMDEN SQ. (British Rainfall) ..	53	65	8·8	83	54	51	—	b	bc	*
HAMPSTEAD (Reservoir)	*	69	8·0	76	51	42	—	bc	bc	bc
S. KENSINGTON (Museum Grounds)	*	56	8·2	79	55	48	—	o.c.bc	cp.bc	b.bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ... 7th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1675	28·4	82·6

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

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

Issue No. 20,288. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Saturday 9TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Friday 8TH JUNE 1917.

The temperature exceeded 70° in the South-East of England. Some showers fell in different parts of the country, but the amounts of rain recorded were slight. Sea fog was widely distributed.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Friday 8TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 7TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h. 8TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	4·1	1	Trace	61	51	o.bc	p.o	4·1
	Banff	6·5	–	–	70	50	bc	bc.c	5·8
	Montrose	3·0	*	*	58	44	b	o	3·4
	St. Andrews	1·2	Trace	1	65	42	o	p	1·5
	Carnoustie		*	*	59	52	bc.o.c	c.op	1·9
Eng. N.E.	Harrogate	2·3	–	–	70	49	b	bc.c	8·2
	Skegness	3·5	0·2	–	72	56	bc	bc	7·4
Eng. N.W.	Morecambe	4·8	3	2	65	49			1·5
	Southport	7·6	–	–	65	50	o.c.bco	op.c.bc	3·4
Midlands.	Leamington Spa								
	Malvern	8·0	–	–	69	54	b.bc	bc.c	0·3
	Ross-on-Wye	7·5	–	–	71	47	bc.b	c.bc	8·2
Wales.	Rhyl	4·9	–	Trace	64	53	c	cp.bc	2·1
	Colwyn Bay		*	*	65	55	bc	b	5·0
	Llandudno		*	*	63	53	cp	b	6·3
	Aberystwyth		*	*	59	54	o.c	bc.o	1·0

	STATIONS.	Sunshine for 7TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h. 8TH
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	11·4	–	–	70	57	bz	c.o.cz	7·5
	Felixstowe	11·1	–	–	75	58	bc	bc.c	6·3
	Walton-on-Naze	10·7	–	–	71	58	b.bc	bc.c	6·0
	Southend-on-Sea	9·2	–	–	75	56	o.cz	oz	4·7
England, S.E.	Margate	11·1	–	–	72	57	b.c.b	bc.c	6·8
	Hastings	10·3	*	*	71	54	o.bc	b.bc	5·8
	Eastbourne	12·2	0·1	0·1	68	53	bc.obc	c.r.obc	2·4
	Seaford	12·7			64	50	o	r	2·1
	Brighton	10·7	–	0·2	62	52	o	o.p.o	2·8
	Worthing	11·1	–	–	66	51	bc.c	c.bc	2·8
	Littlehampton				63	55	o	bc	2·5
	Bognor								
	Bournemouth	10·2	*	*	68	54	c.b	c.b	10·7
England, S.W.	Weymouth		*	*	65	52	z.bc	bc	6·0
	Torquay								
	Paignton								
	Penzance	11·9	2	–	63	57	c	bc	2·3
	Newquay	12·0	–	1	61	53	cp.b	bc.b	4·0
	Bude	10·2	–	5	60	54	r	c	1·0
	Ilfracombe	9·1	–	3	64	54	f.b.c.r	f.r.o.bc	2·5
	Weston-s-Mare	9·4	*	*	68	52	b.bc	bc.r.c	5·0

REPORTS FROM FOREIGN STATIONS FOR Friday 8TH JUNE

	STATIONS.	Evening of 7TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 8TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1023·5	+2	48	−10	NW	2	bc.	–	*	41
	Gorki	1016·8	48	NW	1	0	1016·8		50	0	NW	1	b	–	*	39
	Velieki Luki						1018·3	*	46		–	0	0	–	*	39
	Hangö	1019·0	46	NNE	3	0	1023·2	+4	50	+5	NNW	2	0	–	*	41
	Riga	1018·0	45	NNW	3	r	1019·1	+4	48	−6	E	2	0	6	*	43
	Petrograd	1015·3	55	ENE	2	bc	1019·5	+2	55	−7	NE	3	0	–	64	52
	Moscow	1012·0	61	NE	2	bc	1013·1	+1	57	−2	ENE	2	0	–	*	57
	Kiev						1017·5	−1	54	−3	WNW	2	b	–	*	45
	Kharkov	1014·7	?	NW	1	?	1015·3	+1	52	−5	NW	1	0	4	*	48
	Kishinev						1018·4	+1	54		NW	1	b	–	*	50
	Elisabetgrad	1017·5	59	NNW	2	b	1017·8	0	55	−4	NW	2	bc	–	*	43
	Nicolaiev	1016·7	66	NW	2	b	1018·2	*	59	−4	NW	2	b	–	*	52
	Odessa	1018·4	66	N	3	b	1018·0	0	59	−9	NNE	2	b	–	*	54
	Tarkhankout						1018·7	*	68		–	0	b	–	*	55
	Soukhoum														*	
Mediterranean.	Venice	1017·8	79	SSW	1	b	1017·5	*	72	0	NE	1	m	–	82	68
	Pesaro	1018·2	73	S	1	b	1018·2	*	73	+3	?	1	b	–	82	63
	Rome	1019·1	75	SW	1	b	1018·5	*	75	0	NW	1	b	–	88	66
	Viesti	1019·7	75	S	1	b	1019·1	*	73	+1	NE	1	b	–	82	68
	Brindisi	1019·1	73	NW	1	b	1016·5	*	68	+2	–	0	b	–	75	64
	Cagliari	1016·3	77	SE	3	b	1016·6	*	72	+4	SE	2	b	–	81	59
	Palermo						1018·7	*	70	−2	–	0	f	–	82	61
	Tripoli						1015·7	*	?		E	3	?	?	?	?
	Algiers	1015·0	68	SSE	1	0	1015·3	+1	68	0	ESE	1	m	–	81	66
Sweden.	Hernösand	1028·6	45	ENE	2	b	1030·3	*	52	+2	NE	2	b	*	*	*
	Stockholm	1025·6	52	N	4	b	1027·0	*	50	0	NNE	4	0	*	*	*
	Wisby	1025·0	50	NE	4	b	1025·1	*	45	−3	NNE	6	0	*	*	*

Morning of 8TH						
ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1014·3	52	+6	–	0	b
Reykjavik	1009·1	48	+2	–	0	c
Vestmanna						
Seydisfjord	100·83	48	−2	–	0	r
Thorshavn	1015·1	51	+2	–	0	f

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

9TH and 10TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·33 / 3·32	11·52 / 11·52	8·12 / 8·12
Greenwich	3·46 / 3·45	11·59 / 11·59	8·12 / 8·13
Wick	3·9 / 3·9	12·11 / 12·11	9·12 / 9·13
Valencia	4·24 / 4·23	12·40 / 12·40	8·57 / 8·57

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

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‡ The barometric change is expressed in half-millibars.

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THE MORNING OF SATURDAY, 9TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

GENERAL INFERENCE

As the anticyclone to the South-West spreads over the country, the weather may be expected to become fine and warm.

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 50° 50°-60° 60°-70° Above 70°
Scale of Tints for JUNE.

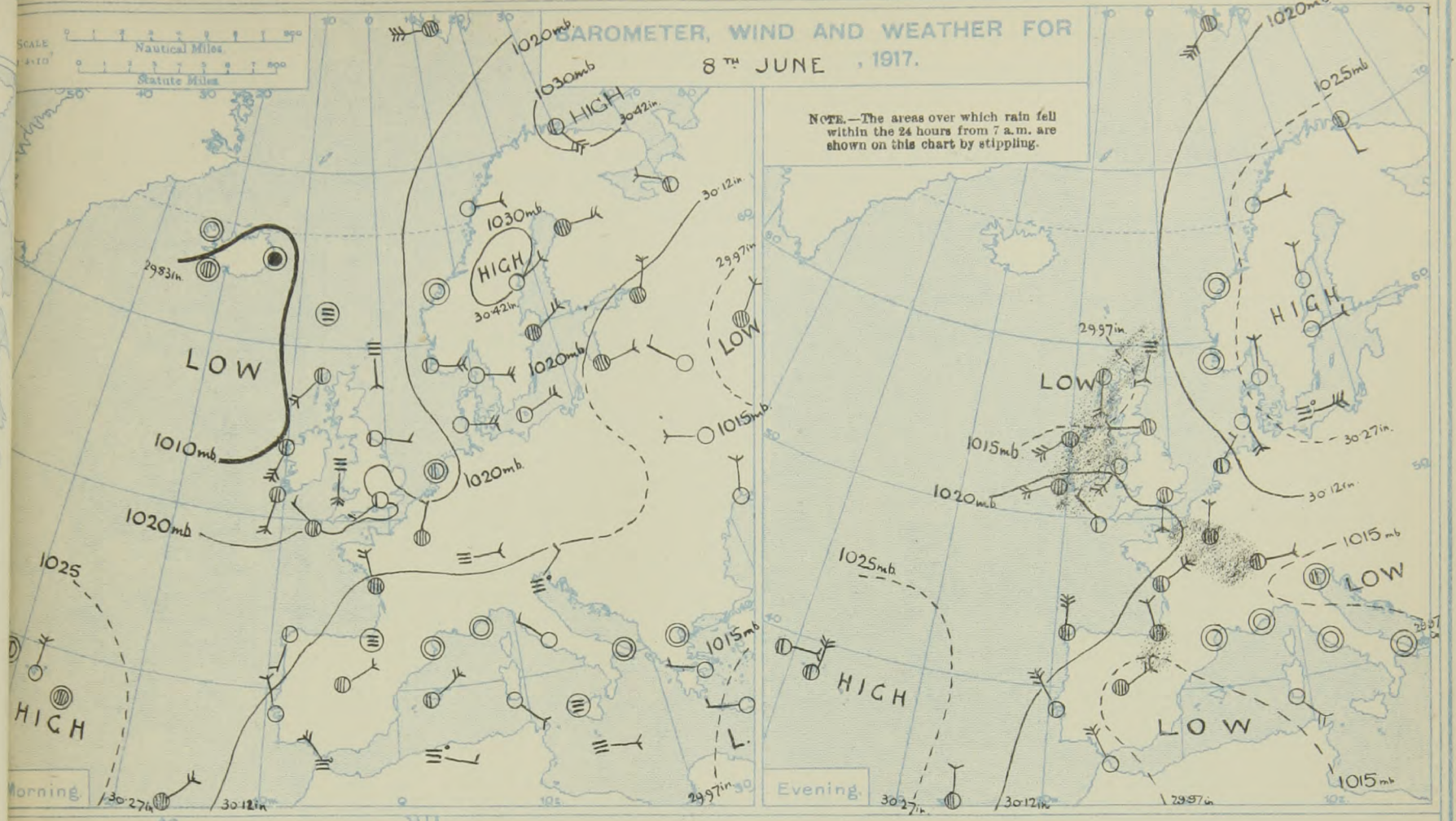
1020mb
1025mb
1015mb
1010mb
1020mb
1025mb
1020mb
1015mb

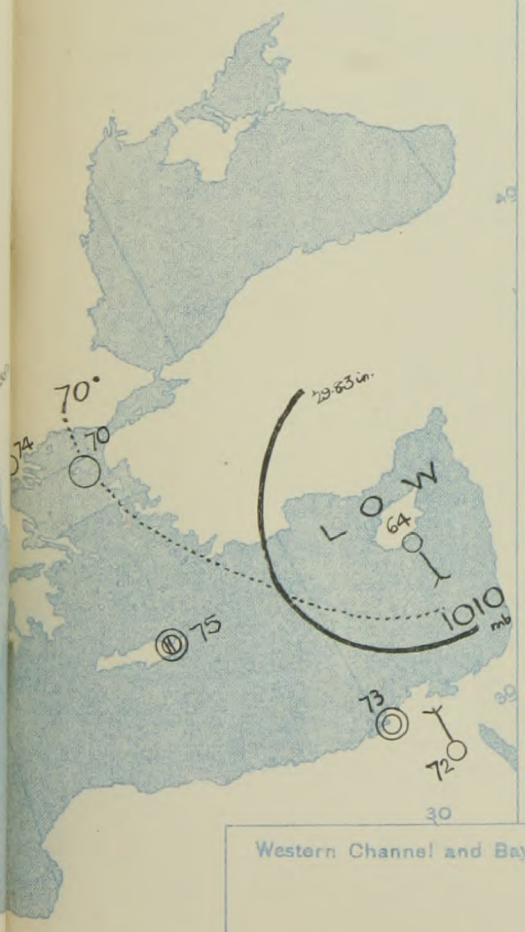
LOW
LOW
HIGH
HIGH

Barometer rising generally

29.83in.
29.97in.
30.12in.
30.27in.
30.12in.
29.97in.
30.27in.

50°
60°
60°
70°





Western Channel and Bay.

Forecasts 18h. Saturday to 18h. Sunday

0 {a, b} Moderate to fresh SW. breezes; fair, some showers; moderate temperature.

1 Light or moderate SW. breeze; fair, some showers, sea fog; moderate temperature.

2 {a, b}, 3, 4 {a, b, c}, 5 Light variable breezes; fine; rather warm.

6 {a, b}, 7 {a, b} Light variable breezes; fair, some showers; rather warm.

8 {a, b} Light variable breeze; fine; rather warm.

9 {a, b}, 10 {a, b} Light SW. to variable breezes; fair, some showers; rather warm.

11 Same as No. 8; sea smooth.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 160. Saturday 9th June

	STATIONS	EVENING OF 8th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 9th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 8th Hours.
BRITISH ISLANDS.	Lerwick ...	1018·1	49	SSW	2	f	1016·0	−1	49	−2	S	2	—	f	2	2	52	49	fe.bcm	bc.on	fr	
	Deerness (Orkney)	1015·6	53	SSE	5	bc	1015·6	*	54	+6	SSW	3	SW	b	3	trace	56	47	f.c.b	b.bc	bc.cr.b	6·6
	Stornoway ...	1014·0	57	S	3	bc	1015·2	+4	52	−2	W	6	—	0q	5	3	60	50	bc	bc	c.opq	11·7
	Castlebay (Barra Isd.)																					
	Glasgow ...	1016·7	62	SW	3	bc	1020·6	+3	53	−3	WSW	3	W	bc	*	1	62	50	omr.on	be.b	bc.bbc	4·6
	Eskdalemuir ...	1018·1	57	SSW	4	bc	1022·0	+3	52	0	SSW	3	W	c	*	0·4	58	44	od.om	od.o.bc	bc.om.c	3·0
	Malin Head ...	1014·4	57	SSW	5	bcq	1019·6	+3	53	+3	W	4	SW	c	3	1	61	50	c.cq	bcmp	cq	9·1
	Blacksod Point	1015·9	53	SW	5	cqp	1020·1	+2	53	+2	SSW	3	—	0q	3	1	57	51	bcp	cp	0q.om	*
	Valencia (Cahirciveen)	1021·0	56	WSW	4	c	1023·1	0	54	0	S	2	SW	0	3	0·2	59	52	cp	c	c.o	2·3
	Roche's Point	1020·7	58	WSW	3	0	1023·9	*	54	0	SW	2	—	0	2	0·1	60	49	0.cp.bc	bc.c.o	c.o	*
	Birr Castle ...	1018·3	59	S	1	c	1023·0	*	55	+3	SW	1	—	c	*	1	?	51	c.o	o.cp	c	7·2
	Donaghadee ...	1016·7	60	SSW	4	bc	1021·3	+2	54	+2	W	3	—	bcm	2	—	62	48	bcz	bcz	bcm	*
	Liverpool (Bidston)	1019·8	60	W	1	b	1023·3	+2	55	−2	WSW	1	W	bc	1	—	68	49	bc	bc	b.bc	8·3
	Holyhead ...	1019·4	59	SW	4	b	1023·3	+1	53	0	SW	3	—	b	2	trace	59	50	fe.c.b	b.be.b	c.be.b	9·3
	Pembroke (St. Ann's)	1021·8	55	W	2	b	1024·0	+2	56	+4	—	0	—	b	0	0·2	58	50	b.c.bc	be.b	b	7·8
	Scilly (St. Mary's)	1022·8	60	NW	1	b	1025·1	+1	55	0	—	0	—	b	3	—	62	49	c	c.bc	b	6·6
	Falmouth ...	1021·7	59	NNW	1	bc	1024·0	+1	58	0	NW	2	—	b	*	—	64	46	o.c	c.bc.c.b	bw	4·5
	Jersey (St. Aubin)	1021·2	63	NNE	2	b	1023·8	*	55	−3	NE	2	—	ofe	1	—	69	53	o.c.bc	bc.c.o.b	b.ofe	6·2
	Portland Bill ...	1020·6	55	SW	1	b	1023·5	+1	56	+1	N	1	—	b	2	—	58	51	bcm	b.bc	bcf.b	*
	Dungeness ...	1019·6	60	WSW	3	c	1020·2	+1	63	+2	N	3	—	b	2	—	65	53	bc.c	c.bc	c.b	*
	Dover	1019·5	68	WNW	2	c	1020·3	0	65	−2	NW	4	—	b	4	—	71	52	b.bc	bc.c	b	7·3
	Wick	1015·7	53	SW	2	ofe	1016·2	+1	52	+3	SW	3	—	bc	3	0·4	57	47	f	f	op.bcm	*
	Nairn	1014·6	65	W	2	bc	1017·5	*	55	−5	SW	2	—	cq	2	—	69	49	cq	cq.bc	bcq	7·5
	Aberdeen ...	1017·2	55	SSE	2	om	1018·9	+2	58	+3	SSW	3	SW	b	2	trace	64	49	bm.bc	bc.opm	o.c.b	7·2
	Leith	1016·0	67	SW	1	bc	1020·1	+1	56	+1	WSW	1	W	c	2	—	68	52	o.c.bc.c	c.bc.b	bc.cv.c	*
	Tynemouth ...	1017·5	64	W	2	cm	1022·1	+2	56	−1	W	2	—	b	3	—	64	50	bm		cm	*
	Spurn Head ...	1019·2	60	SE	3	cm	1022·5	+2	56	0	NW	2	—	b	3	—	64	53	bcm	bcm	bcm	4·4
	Yarmouth (Gorleston)	1018·8	61	ENE	1	c	1021·6	+5	60	−4	NNE	5	—	bcm	4	—	73	58	bcm	bcm.cm	om.bcm	7·8
	Clacton-on-Sea	1019·2	68	—	0	0	1021·8	+4	63	0	N	3	—	b	2	—	71	58	bc.c.oz	oz	o.bz	4·8
	Nottingham ...	1018·9	67	W	3	c	1022·7	*	56	−2	SW	1	—	b	*	—	73	50	b	bc.c	c.o	10·0
	Benson (Oxon.) ...	1018·9	71	SW	1	b	1022·8	+2	55	−7	—	0	—	b	*	—	73	44	c	b	b	*
	Sth Farnborough	1019·4	68	WSW	3	c	1022·7	+2	57	−2	NW	2	—	b	*	—	72	47	bc.o	o.c	c.bo	6·2
	London (Kew Obsy.)	1019·6	72	SSW	2	c	1023·1	+2	59	−1	NNW	1	—	bm	*	—	73	53	bm.o	o.c	c.bc.bmw	5·1
NORTHERN EUROPE.	Spitsbergen ...	1017·7	30	SW	6	c	1019·0	+1	34	+2	S	1	*	b	*	*	34	27				
	Vardö	1028·7	39	S	1	bc	1023·3	−3	43	+4	S	1	—	o	2	*	41	34				
	Bodö	1026·1	57	E	2	b	1021·3	0	59	+5	E	1	—	b	1	—	59	48				
	Christiansund ...	1024·0	63	—	0	b	1022·7	−1	57	−4	—	0	—	b	2	—	64	50				
	Skudesnaes ...	1022·9	57	—	0	b	1023·1	0	59	−2	SE	4	—	c	3	—	63	52				
	Færder (X'lania Fjord)	1026·4	63	WSW	1	b	1026·7	0	59	0	S	2	—	o	1	—	63	67				
	The Scaw (Skagen)	1026·3	59	N	2	b	1026·6	+2	57	0	S	2	S	bc	2	—	63	55				
	Blaavands Huk	1022·4	70	SSE	3	b	1023·9	?	57	−4	SE	4	—	bc	?	—	73	48				
	Copenhagen ...	1025·7	57	SSE	2	b	1027·4	0	54	−3	SE	4	—	o	*	—	64	52				
	Bornholm ...	1025·5	48	E	5	m	1027·4	0	46	−9	ESE	4	—	m	1	—	55	43				
FRANCE, &c.	The Helder ...	1018·7	70	NE	1	bc	1019·8	+1	63	0	NNE	3	—	r	1	Trace	72	61				
	C. Gris Nez ...	1019·9	58	W	4	0	1021·9	+1	61	+4	—	0	*	b	0	—	64	54				
	La Hève	1021·6	57	N	1	c	1021·6	*	52	−4	NW	3	*	f	2	7	63	50				
	Brest (St. Mathieu)	1022·0	61	N	2	c	1024·6	+1	57	−4	NNE	3	*	o	2	—	70	55				
	Rochefort (Ile d'Aix)	1019·7	65	NW	4	bc	1020·8	+1	64	+2	NE	4	*	c	*	—	68	59				
	Biarritz	1019·4	66	NNW	2	o	1020·7	0	64	+1	NW	2	*	o	2	1	68	61				
	Paris	1018·9	68	N	2	o	1021·6	+2	61	−3	N	2	—	o	*	1	73	57				
	Belfort	1017·6	73	E	2	c	1019·7	*	68	+1	—	0	*	m	*	2	84	59				
	Lyons	1017·2	70	WNW	2	c	1018·6	*	67	−2	NNW	1	*	b	*	—	76	59				
	Nice	1015·8	72	—	0	b	1016·3	+1	71	−3	SW	1	*	b	1	—	82	63				
	Perpignan ...	1016·0	77	—	0	b	1017·2	+1	72	+2	NW	3	—	b	*	—	81	63				
	Sanguinaire ...	1017·0	76	N	3	m	1016·0	*	73	−3	E	1	*	m	1	—	91	69				
SOUTHERN STATIONS.	Corunna	1021·1	66	N	5	c	1021·1	0	66	+2	NE	2	—	b	1	—	68	59				
	Madrid	1013·1	75	NE	3	0	1017·6	+2	64	+1	NE	1	—	c	*	—	79	57				
	Lisbon	1017·0	68	NW	5	b	1016·8	0	61	−2	NNW	3	—	b	5	—	73	59				
	Azores (Horta) ...	1028·4	*	N	4	bc	1026·7	−1	62	+3	WSW	4	*	ba	1	—	72	59				
	Madeira	1021·6	66	N	2	c	1021·1	−1	63	0	NE	2	N	bc	2	—	68	61				
	Gibraltar	1016·6	68	NW	4	b	1016·2	*	65	+2	E	5	*	b	2	—	75	62				
	Malta	*	*	*	*	*	1014·4	0	72	+2	ESE	1	SW	c	1	—	75	68				
	Limassol	*	*	*	*	*	1009·0	+1	64	−1	S	2	—	b	2	—	90	63				
	Alexandria ...	1012·4	70	N	3	c	1012·8	+1	73	+1	—	0	—	b	1	—	77	68				
	Cairo (Helwan) ...	1010·3	81	NW	3	b	1011·9	+1	72	+2	N	2	—	b	*	—	91	66				

NOTE

SOLAR HALO was observed at BENSON Yesterday, 8th, morning.

LONDON OBSERVATIONS.	Humidity. 15 h. 8th	Humidity. 9 h. 9th	Sunshine for 8th	24 Hours ended 9 h. 9th: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	60	64	5·2	74	53	41	—	bc	bc.c	c.o.bz
CITY (Bunhill Row)	*	*	3·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	61	69	3·6	70	54	47	—	bc	b	b
CAMDEN SQ. (British Rainfall) ...	55	59	2·2	75	55	52	—	0	o.c	*
HAMPSTEAD (Reservoir)	*	65	4·2	68	52	40	—	c.o	c.	b.
S. KENSINGTON (Museum Grounds)	*	62	3·3	72	55	50	—	o	ez.	c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 8th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1405	23·7	44

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

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

Issue No. 20,289 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Sunday, 10th JUNE.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Saturday, 9th JUNE, 1917.

Large amounts of bright sunshine were recorded everywhere except in Ireland. The day was warmer than of late in the north, where the maximum was generally 60° or over.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Saturday, 9th JUNE. UP TO 17 H.

	STATIONS.	Sunshine for 8th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 9th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	4·5	1	1	58	49	0	0	3·6
	Banff	5·8	–	–	70	47	bc.b	b	10·8
	Montrose	4·4	–	–	68	42	b	b	8·5
	St. Andrews								
	Carnoustie	*	*	*	68	57	b	b	12·0
Eng. N.E.	Harrogate	10·3	–	–	69	45	b	b.bc.c	9·6
	Skegness	*	–	–	62	51	bc	b	10·3
Eng. N.W.	Morecambe								
	Southport	6·7	–	–	60	46	b	b	?
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	9·1	–	–	71	43	b	b	11·4
Wales.	Rhyl								
	Colwyn Bay	*	*	*					
	Llandudno	*	*	*	60	48	bc	bv	10·4
	Aberystwyth	*	*	*	58	48	bc.b	b.bc	10·0

	STATIONS.	Sunshine for 8th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 9th
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft								
	Felixstowe	6·3	–	–	71	58	b.bc	bc.b	12·3
	Walton-on-Naze	6·0	–	–	69	58	b	b	11·6
	Southend-on-Sea	4·7	–	–	73	56	bc.bc	bc.b	10·1
England, S.E.	Margate	6·8	–	–	64	59	b	b	11·0
	Hastings	5·8	–	–	72	57	bc.b	b	10·6
	Eastbourne	2·4	–	–	71	57	bz	bz	10·8
	Seaford	2·2	–	–	70	52	b	bc.b	10·9
	Brighton	2·9	–	–	68	55	b.bc	bc.bv	10·4
	Worthing		–	–	72	52	b	b.bc.c	12·0
	Littlehampton								
	Bognor								
	Bournemouth	12·1	–	–	73	49	b	b	13·2
England, S.W.	Weymouth	*	*	*					
	Torquay	*	–	–	67	47	bc.b	b	12·2
	Paignton								
	Penzance	4·5	–	–	65	47	bc	bc.b	8·3
	Newquay								
	Bude	2·8	–	–	61	44	b	b	12·0
	Ilfracombe								
	Weston-s-Mare								

REPORTS FROM FOREIGN STATIONS FOR Saturday, 9th JUNE

	STATIONS.	Evening of 8th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 9th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1022·7	50	NNE	1	bc									*	
	Gorki	1015·0	?	N	2	?	1015·7	0	59	+9	N	1	b	+	*	39
	Velieki Luki	1018·1	55	–	0	0	1020·8	*	57	+11	–	0	bc	2	*	46
	Hangö	1025·0	57	NW	2	b	1026·3	+1	55	+5	–	0	b	–	*	45
	Riga	1023·5	52	N	1	0	1024·8	0	48	0	NNW	3	0	–	*	46
	Petrograd	1021·5	64	NNE	3	b	1023·4	+1	57	+2	ENE	2	b	–	72	54
	Moscow	1015·9	59	NE	2	b	1017·5	+1	61	+4	N	1	b	–	*	55
	Kiev	1014·9	55	NW	3	0	1014·7	0	55	+1	N	3	b	–	*	46
	Kharkov	1014·9	50	NW	1	b	?	+1	57	+5	–	0	b	–	*	43
	Kishinev	1019·3	66	SSE	2	0	1021·2	+1	54	0	N	3	0	1	*	52
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa	1015·3	66	SW	3	0									*	
	Tarkhankout						1012·7	*	59	-9	NE	2	r	2	*	59
	Soukhoum														*	
Mediterranean.	Venice	1013·9	79	–	0	bc	1016·5	*	73	+1	NE	1	b	–	84	66
	Pesaro	1015·6	77	–	0	b	1016·1	*	75	+2	ENE	1	bc	–	86	66
	Rome	1016·9	73	–	0	b	1016·1	*	72	-3	–	0	b	–	88	63
	Viesti	1016·3	75	–	0	b	1015·8	*	75	+2	NW	1	b	–	86	68
	Brindisi	1016·1	73	–	0	b	1014·3	*	70	+2	–	0	b	–	77	70
	Cagliari	1015·9	77	SE	3	b	1013·3	*	75	+3	SE	2	b	–	81	59
	Palermo						1016·1	*	70	0	–	0	0	–	87	76
	Tripoli						1011·8	*	73	–	E	2	b	–	81	68
	Algiers															
Sweden.	Hernösand	1029·3	52	N	2	b	1038·9	*	54	+2	–	0	b	*	*	*
	Stockholm	1027·4	57	ENE	2	b	1027·7	*	55	+5	N	2	b	*	*	*
	Wisby	1026·6	48	N	2	b	1027·9	*	50	+5	NNW	2	b	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1015·8	48	-4	E	4	bc
Reykjavik	1010·3	52	+4	E	1	0
Vestmanna						
Seydisfjord	1015·0	45	-3	–	0	f
Thorshavn	1015·1	54	+3	–	0	f

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

10th and 11th JUNE, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 32	11.52	8.12
	3.32	11.52	8.13
Greenwich	3.45	11.59	8.13
	3.45	11.59	8.13
Wick	3.9	12.11	9.13
	3.8	12.11	9.14
Valencia	4.23	12.40	8.58
	4.23	12.40	8.58

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

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‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

THE MORNING OF Sunday, 10th JUNE, 1917.

General Inference.

The anticyclone is practically stationary. Fine and quiet conditions are likely to continue for the present.

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.

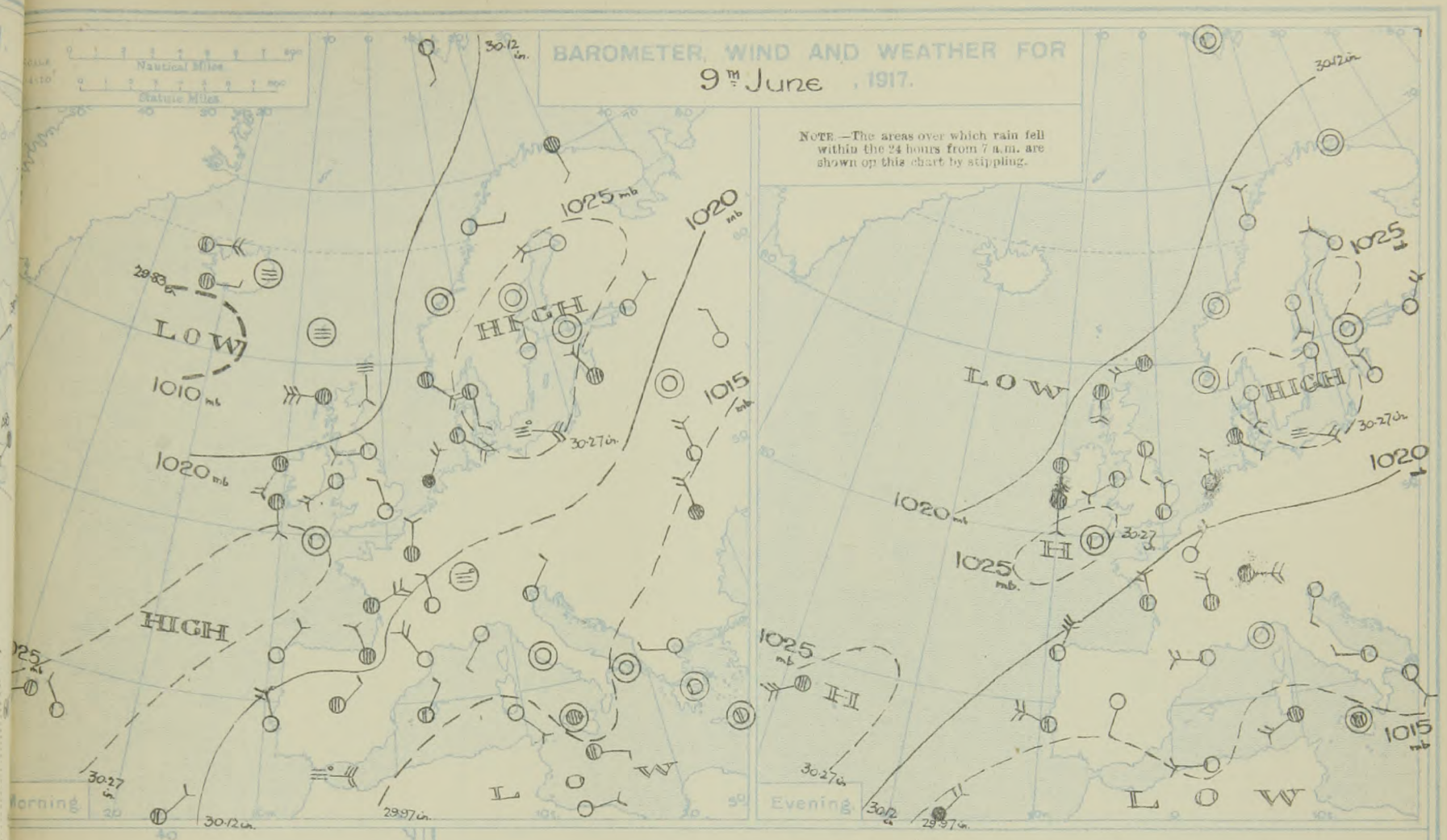
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

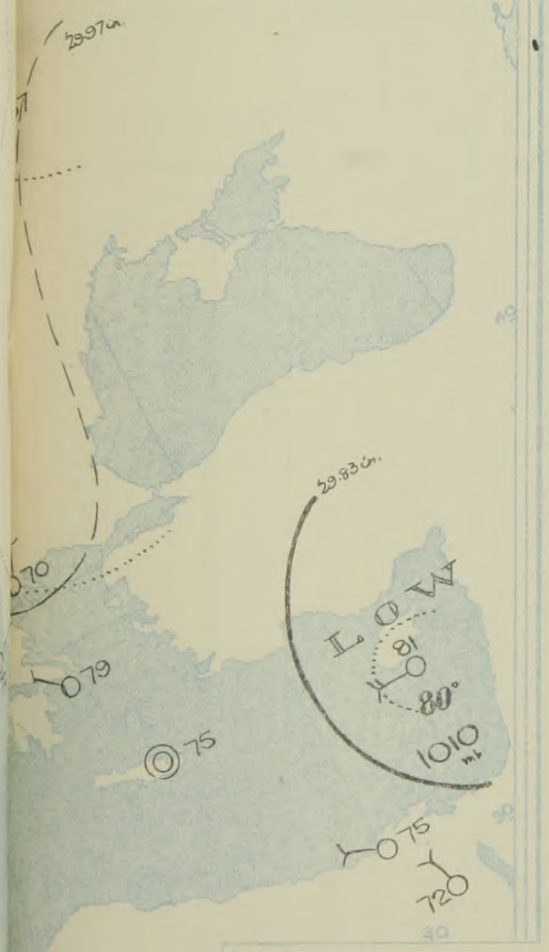
SEA DISTURBANCE.—Rough ~~ High ≈≈.

Normal Temperature of the Sea.

Scale of Tints for ISOTHS.

29·97 in.
30·12 in.
30·27 in.
1025 mb.
1020 mb.
1015 mb.
1010 mb.
29·83 in.
LOW
HIGH
Bar. rising
Barometer almost stationary
Bar. rising slowly
32°
40°
50°
60°
70°





Western Channel and Bay.

Forecasts 18h. Sunday to 8h. Monday.

0a, 0b, 1 — Light or moderate Southerly breezes; fair generally; warm.

2a, 2b — Light variable breezes; fine; warm.

3, 4a, 4b, 4c, 5 — Light or moderate North-Easterly breezes; fine; warm.

6a, 6b, 7a, 7b, 8a, 8b — Same as No. 2.

9a, 9b, 10a, 10b — Light or moderate Southerly breezes; fair generally; normal temperature.

11 — Light variable breezes; sea slight; fine; rather warm.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 161. {Sunday, 10th JUNE

	STATIONS.	EVENING OF 9th				MORNING OF 10th								24 HOURS ENDED 7 A.M.					Sunshine for 9th
		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 ...	1020·8	52	WSW	3	om	1026·2	+1	51	+2	SSW	2	–	om	2	–	59	48	f.om	om	om	*
	Deerness (Orkney)	1021·3	58	WNW	5	bc	1023·7	*	53	–1	SE	4	SW	bc	3	–	60	49	b.bc	bc	bc	11·3
	Stornoway ...	1021·3	56	S	4	o	1022·4	o	54	+2	SE	2	–	c	1	–	60	51	o.c.o	o.c.o	o.c	2·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1023·4	61	WSW	1	bz	1024·6	+1	52	–1	WSW	1	S	bz	*	–	62	45	cm.o	c.b.o.bz	b.bc.o.b	4·7
	Eskdalemuir ...	1023·9	59	S	3	b	1024·8	o	55	+3	–	o	–	bw	*	–	62	38	c.o	o.c.c.bv	bv.b.bw	7·0
	Malin Head ...	1022·0	57	S	1	c	1022·6	o	55	+2	S	2	S	c	2	0·2	59	51	c	c	c	0·8
	Blacksod Point	1020·7	55	S	4	cg	1019·8	o	54	+1	S	4	S	c	4	–	57	51	bc	cg	cg	*
	Valencia (Cahirciveen)	1023·0	57	S	2	apd	1022·2	+1	55	+1	S	2	SW	o	4	0·1	60	52	o	o	od.o	0·2
	Roche's Point	1024·4	57	WNW	1	o	1023·9	*	55	+1	SSW	1	–	o	1	0·1	62	53	o.c	c.og	o	*
	Birr Castle ...	1022·4	62	SW	1	c	1022·9	*	55	o	S	1	–	o	*	–	62	48	c.o	o.c	c.o	1·7
	Donaghadee ...	1022·1	56	SSE	3	bcm	1023·9	+2	51	–3	SE	2	SE	bcz	1	Trace	60	47	om	bcm	bcmw	*
	Liverpool (Bidston)	1024·6	58	WNW	1	b	1024·5	o	57	+2	E	1	–	b	1	–	61	51	b	b	b	213·8
	Holyhead ...	1024·4	60	SW	2	b	1023·9	+1	53	o	SW	3	–	b	2	Trace	62	48	b	b	bw	14·2
	Pembroke (St. Ann's)	1025·1	57	WNW	1	b	1024·0	–2	54	–2	NW	1	–	b	1	–	59	46	b	b	bw	14·6
	Scilly (St. Mary's)	1025·1	60	–	o	bv	1024·0	+1	57	+2	–	o	–	bv	4	–	62	49	b.bc	bc.bv	bv	12·2
	Falmouth ...	1024·1	61	NNW	1	b	1023·3	+1	57	–1	N	1	–	b	*	–	65	48	b.bc	bc.b	b	10·3
	Jersey (St. Aubin)	1023·3	60	NW	2	b	1021·9	*	57	+2	NE	2	–	o	1	–	64	54	o.fe.b	b	b.o	10·8
	Portland Bill ...	1023·2	57	NW	3	b	1022·8	o	59	+3	ENE	2	NE	bc	2	–	60	55	b	b	b.bc	*
	Dungeness ...	1022·0	61	E	4	b	1021·7	–1	58	–5	NE	2	–	b	1	–	70	59	b	b	b.bc	*
	Dover	1022·9	62	NE	4	b	1022·4	o	56	–9	N	4	N	bc	3	–	72	50	b	b	b.bc	13·2
	Wick	1022·2	53	NE	1	bc	1023·3	o	51	–1	S	1	–	bc	2	–	67	48	bcm.o	o.bcm	bcm	*
	Nairn	1022·1	64	SW	2	bc	1023·6	*	53	–2	–	o	–	cg	o	–	68	44	bcq	bc	bcw	10·2
	Aberdeen ...	1022·8	60	NE	2	b	1024·7	+1	59	+1	E	1	–	b	2	–	69	47	b.bc	bc	bw	14·9
	Leith	1022·8	60	W	1	b	1024·1	o	52	–4	NW	1	–	b	1	–	65	49	c.o.cu.c	b	b.bz.b	*
	Tynemouth ...	1023·9	59	SSW	1	bcm	1025·3	o	56	o	SSW	1	–	bm	2	–	63	50	cm	cm	cm	*
	Spurn Head ...	1024·3	58	E	2	b	1025·9	o	55	–1	E	2	–	b	2	–	64	51	b	b	b	13·0
	Yarmouth (Gorleston)	1023·6	61	NE	3	b	1023·6	o	54	–6	NE	3	–	bcm	3	–	68	49	bcm	bcm.b	b.bcm	13·6
	Clacton-on-Sea	1022·9	63	ENE	4	b	1023·1	o	58	–5	NNE	3	–	bc	2	–	69	49	b.bcz	bcz.b	b.bc	13·8
	Nottingham ...	1022·9	68	NE	1	b	1024·7	*	57	+1	E	1	–	b	*	–	73	46	b	b	b	12·5
	Benson (Oxon.) ...	1022·3	72	NW	1	b	1023·2	+1	61	+6	E	1	–	b	*	–	74	52	b	bg	bc.b	*
	Sth Farnborough	1021·4	71	ENE	1	c	1023·2	+1	58		NNE	1	SE	czw	*	–	75	51	b.bcz	bc.c	c.o.czw	10·6
	London (Kew Obsy.)	1022·1	72	N	2	bcz	1023·8	+1	61	+2	ENE	2	N	bz	*	–	74	53	bm.bz.cz	cz.bcz	bz	8·9
NORTHERN EUROPE.	Spitsbergen ...	1018·6	32	–	o	b	1017·9	o	27	–7	S	1	*	b	*	*	34	18				
	Vardö	1021·6	45	–	o	bc	1018·3	–2	46	+3	–	o	–	o	2	*	46	34				
	Bodö	1021·3	55	N	2	b	1020·7	+5	55	–4	SSW	5	–	c	3	–	66	57				
	Christiansund ...	1022·6	59	–	o	c	1025·3	+1	54	–3	W	6	–	c	3	–	63	52				
	Skudesnaes ..	1024·8	54	–	o	c	1026·3	o	61	+2	–	o	–	b	2	3	59	50				
	Færder (X'tiania Fjord)	1025·5	59	WSW	1	bc	1026·4	+1	59	o	SW	1	–	bc	1	–	61	55				
	The Scaw (Skagen)	1026·3	57	S	2	b	1026·3	+2	57	o	S	1	–	b	1	–	59	55				
	Blaavands Huk	1023·7	63	SE	1	o	1024·8	*	63	+6	E	1	–	b	*	–	70	50				
	Copenhagen ...	1025·6	57	S	2	b	1026·3	o	55	+1	ENE	1	–	b	*	–	59	55				
	Bornholm ...	1025·5	46	ESE	3	f	1026·0	+1	46	o	ESE	3	–	f	o	–	56	41				
FRANCE, &c.	The Helder ...	1021·3	64	N	3	b	1021·3	o	63	o	NE	3	–	c	1	1	66	57				
	C. Gris Nez ...	1022·0	69	NE	4	b	1022·6	+1	51	–10	NE	3	*	m	2	Trace	66	51				
	La Hève	1022·9	57	NNW	2	b	1021·6	*	56	+4	S	1	*	o	1	–	63	55				
	Brest (St. Mathieu)	1023·7	64	N	4	b	1021·9	o	61	+4	N	2	*	b	2	–	70	50				
	Rochefort (Ile d'Aix)	1019·3	68	NNW	3	bc	1018·7	+1	64	o	ENE	3	*	c	*	–	75	61				
	Biarritz												*									
	Paris	1019·8	72	N	3	bc	1020·3	+1	66	+5	NNE	2	–	o	*	–	79	59				
	Belfort	1018·3	70	E	4	o	1019·7	*	61	–7	E	4	*	m	*	9	82	58				
	Lyons	1016·4	72	NNW	3	o	1017·9	*	67	o	NNW	1	*	bc	*	–	81	61				
	Nice	1016·0	72	–	o	c	1016·7	+1	72	+1	SW	1	*	b	o	–	80	63				
	Perpignan ...	1015·7	79	W	3	b	1017·1	+1	73	+1	W	1	–	b	*	–	86	45				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1018·6	70	NNE	6	b	1018·9	+1	64	–2	–	o	–	b	1	–	73	57				
	Madrid	1016·6	68	–	o	o	1018·3	+1	66	+2	ENE	1	NE	b	*	?	77	57				
	Lisbon	1015·1	70	WNW	4	bc	1015·7	+2	64	+3	NW	3	–	bc	5	–	77	61				
	Azores (Horta) ...	1023·9	*	SW	5	c							*									
	Madeira	1014·6	66	NE	2	r	1022·1	o	61	–2	NE	2	N	bc	2	–	66	61				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1014·0	+1	72	o	ESE	1	–	b	1	–	75	68				
	Limassol	*	*	*	*	*	1007·8	o	81	+17	W	3	–	b	3	–	91	57				
	Alexandria ...	1012·2	72	N	2	b	1012·0	+1	75	+2	WNW	2	–	b	2	–	81	68				
	Cairo (Helwan) ...	1010·9	84	N	4	b	1011·3	+1	72	o	NNW	2	–	b	*	–	93	64				

RAINFALL

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 9th	Humidity. 9 h. 10th	Sunshine for 9th	24 Hours ended 9 h. 10th. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	50	51	8.5	77	48	35	–	cz	bc.b	c
CITY (Bunhill Row)	*	*	7.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	58	56	8.1	74	55	49	–	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	49	47	8.0	78	52	49	–	b	bc	*
HAMPSTEAD (Reservoir)	*	50	10.2	72	51	40	–	b	bc	bc
S. KENSINGTON (Museum Grounds)	*	49		75	55	46	–	b	b	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 9th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1709	28.9	72.0

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

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

Issue No. 20290. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Monday 11TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON SUNDAY 10TH JUNE 1917.

Maxima of 70° or over were recorded at several stations, even as far north as Eskdalemuir. Sunshine records were generally very good. Practically no rain fell except 11 mm in a thunderstorm that occurred at Dungeness.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR SUNDAY 10TH JUNE... UP TO 17 H.

	STATIONS.	Sunshine for 9TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h. 10TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	3·6	–	–	64	50	c	6	6·2
	Banff	12·4	–	–	69	44	6	6	13·0
	Montrose	10·4	*	*	68	40	6	6	12·1
	St. Andrews								
	Carnoustie		*	*	61	54	6	6	12·3
Eng. N.E.	Harrogate	9·6	–	–	70	44	6	6	11·4
	Skegness	10·3	–	–	59	46	6	dc. o	9·0
Eng. N.W.	Morecambe		–	–	73	46	c. 6	6	11·5
	Southport								
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl	11·8	–	–	63	43	6c	6. c. 6c	10·7
	Colwyn Bay		–	–	63	46	6c	6c	11·3
	Llandudno		*	*	64	46	6	6	12·5
	Aberystwyth		*	*	60	45	c 6 6	6c. c	12·0

	STATIONS.	Sunshine for 9TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17h. 10TH
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft								
	Felixstowe	14·2	–	–	64	46	6. 6c	6c	8·8
	Walton-on-Naze								
	Southend-on-Sea	8·3	–	–	72	50	6. 6c	6c. c oz	6·4
England. S.E.	Margate	13·0	–	–	57	53	om. c	o	0·5
	Hastings	11·0	*	*	68	53	6c. 6	6. 6c	7·5
	Eastbourne	10·9	–	–	70	54	z	z	7·5
	Seaford								
	Brighton	10·7	–	–	75	56	c	c	10·3
	Worthing	12·0	–	–	75	54	6c. 6	6. 6c	9·3
	Littlehampton		–	–	68	50			12·5
	Bognor								
	Bournemouth	14·7	*	*	74	50	6. 6c	6c	8·5
England. S.W.	Weymouth		*	*					
	Torquay	14·6	–	–	67	51	6	6	12·4
	Paignton								
	Penzance								
	Newquay		–	–	60	48	6	6	12·0
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR SUNDAY 10TH JUNE

	STATIONS.	Evening of 9TH: Barom. Millibars at M.S.L.	Temp. F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 10TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	1024·0	48	NW	3	0	1025·7	0	48	–	W	2	0	–	*	41
	Gorki						1020·4	0	59	0	E	1	6	–	*	50
	Velieki Luki	1021·0	63	SW	2	6		*							*	
	Hangö	1024·6	59	–	0	6	1024·8	0	55	0	–	0	6	–	*	48
	Riga	1024·0	54	NNW	2	6	1024·6	0	61	+13	NNW	1	6	–	*	48
	Petrograd	1022·9	52	NNE	3	6	1024·7	0	61	+4	E	2	6		68	50
	Moscow	1018·4	63	–	0	6c	1018·7	0	61	0	NNE	2	6	–	*	52
	Kiev	1015·9	54	NW	3	c	1015·0	0	57	+2	NE	3	6	7	*	46
	Kharkov	1014·3	59	ENE	1	6	1014·3	0	55	–2	N	1	0	–	*	48
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa	1013·5	55	NNE	3	0									*	
	Tarkhankout														*	
	Soukhoum							*							*	
MEDITERRANEAN.	Venice	1017·1	73	–	0	6	1023·6	*	72	–1	ENE	1	m	–	81	70
	Pesaro	1016·9	73	–	0	6	1017·5	*	70	–5	–	0	6	–	81	63
	Rome	1016·1	72	–	0	c	1016·3	*	72	0	N	1	6	–	86	63
	Viesti	1016·5	75	WNW	1	6	1016·9	*	77	+2	NW	1	6	–	81	68
	Brindisi	1016·9	72	SSE	2	6	1015·0	*	72	+2	NW	2	6	–	79	60
	Cagliari	1014·6	77	WSW	3	0	1014·5	*	75	0	WSW	2	6c	–	81	59
	Palermo	1014·9	73	–	0	0	1015·7	*	73	+3	–	0	c	–	81	64
	Tripoli							*								
	Algiers	1015·3	68	WNW	2	6	1016·0		68		WSW	2	c	–	75	64
SWEDEN.	Hernösand	1025·3	64	S	2	6	1023·0	*	50	–4	S	2	6	*	*	*
	Stockholm	1025·6	57	S	2	6	1025·9	*	66	+11	S	2	6	*	*	*
	Wisby	1025·6	52	W	2	6	1026·1	*	55	+5	WSW	2	6	*	*	*

ICELAND.	Morning of 10TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0–12.	Weather
Isafjord	1013·3	45	–3	N	3	6c
Reykjavik	1006·9	52	0	E	3	c
Vestmanna						
Seydisfjord	1014·6	48	+3	–	0	r
Thorshavn	1015·9	58	+4	S	3	0

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

11TH and 12TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·32 3·32	11·52 11·52	8·13 8·13
Greenwich	3·45 3·45	11·59 11·59	8·13 8·14
Wick	3·8 3·8	12·11 12·11	9·14 9·15
Valencia	4·23 4·23	12·40 12·40	8·58 8·68

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

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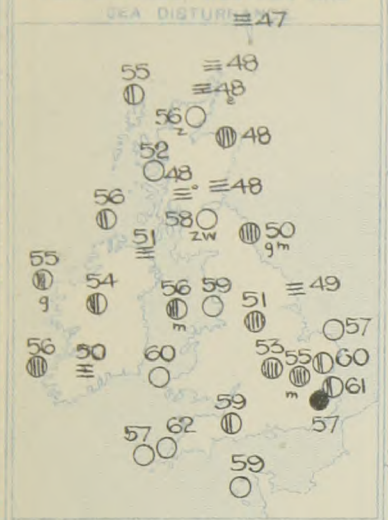
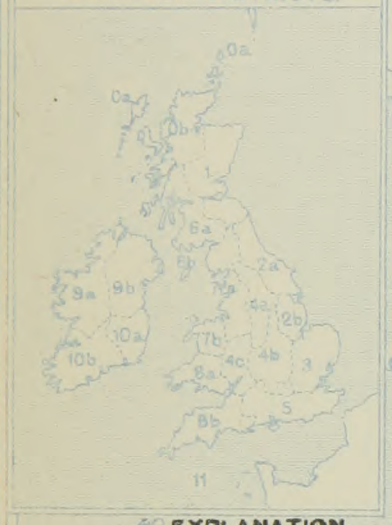
‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.



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 1:22 000 000
Nautical Miles 0 1 2 3 4 390
Statute Miles 0 1 2 3 4 500

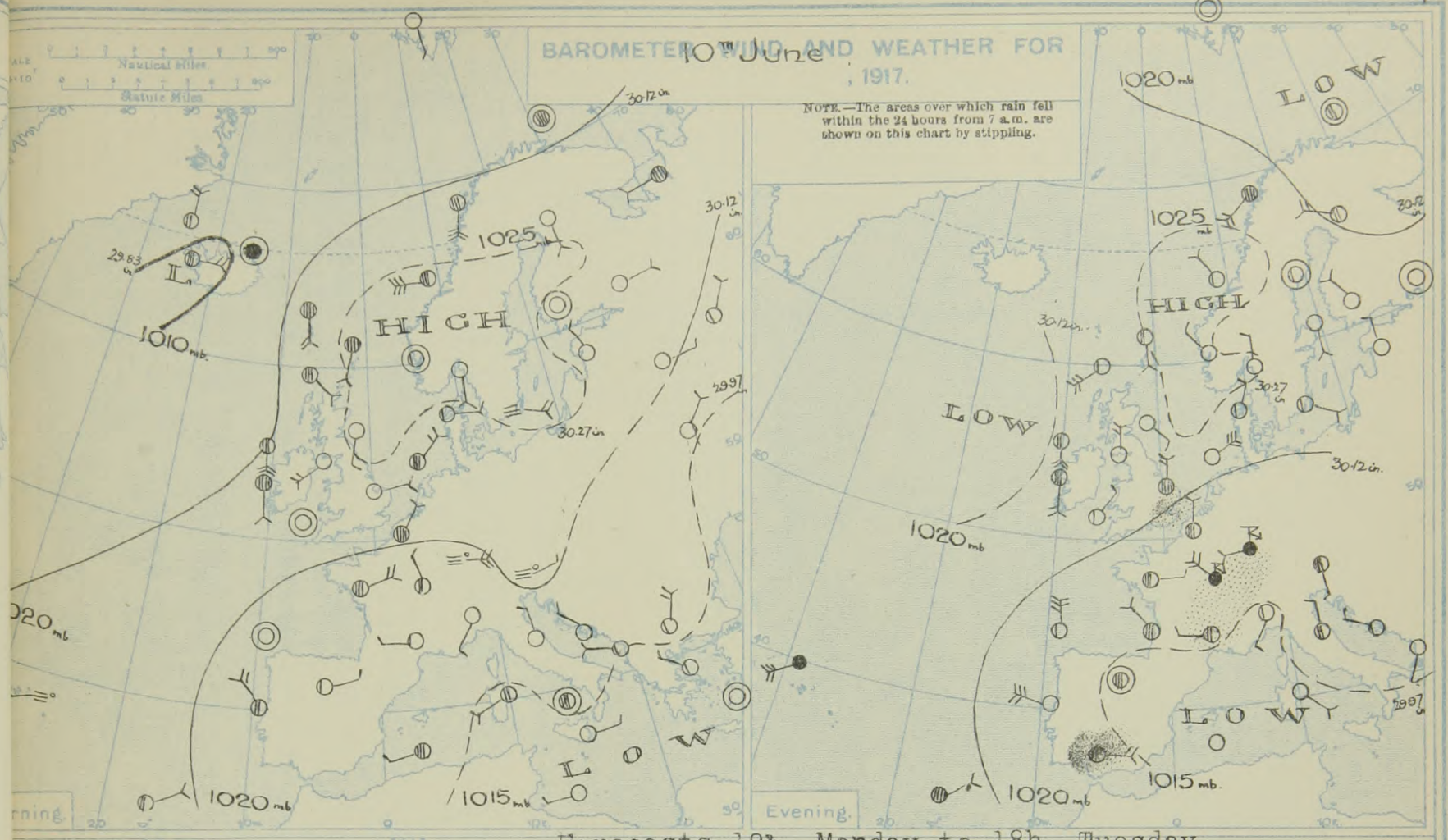
Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JUNE.

THE MORNING OF Monday, 11th JUNE, 1917.

General Inference

A small disturbance that has formed over NE. France may give rise to local thunderstorms in the SE. There are no indications of any change in the general situation.

1020 mb
32
LOW
39?
30·12 in.
1025 mb
45
30·12 in.
29·97 in.
45
50°
57
52
52
29·83 in.
LOW
1010 mb
52
54
HIGH
47
61
61
63
55
48
Barometer
1015 mb
56
almost
50
stationary
55
57
63
30·12 in.
56
1020 mb
55
Bar. falling
LOW
1015 mb.
57
59
62
29·97 in.
62
64
66
65
64
71
75
73
68
61
66
74
73
LOW
29·97 in.
75
73
64
1015 mb
63
73
63
68
67
70°
1015 mb.
59
60°
1020 mb



Forecasts 18h. Monday to 18h. Tuesday

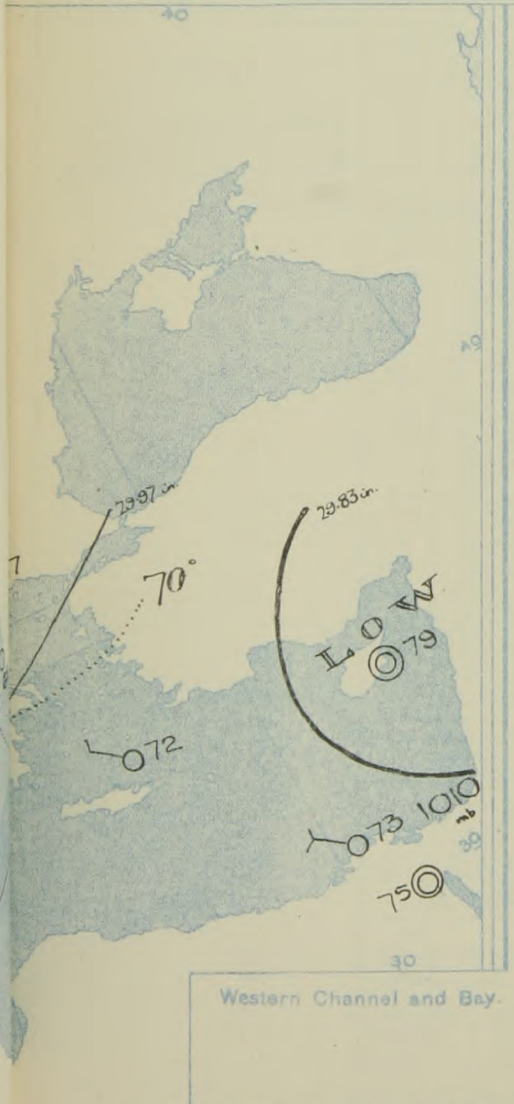
0 a b
1 Light SE. breezes; fair or fine; rather warm.

2 a b
3 Light to moderate E. or NE. breezes; fair generally, local thunderstorms; warm.

4 a b c
5 Moderate to fresh N. breezes; fair generally, but local thunderstorms; warm.

6 a b
7 a b Light variable breezes; fair or fine, mist at sea; warm.

8 a b
9 a b
10 a b
11 Light variable breezes; sea slight; fair or fine.



FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 162. Monday, 11th JUNE.

	STATIONS.	EVENING OF 10th					MORNING OF 11th									24 HOURS ENDED 7 A.M.					Sunshine for 10th
		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.	Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1025·0	55	S	2	bc	1025·3	0	47	−4	SE	2	–	f	2	–	59	47	bc	bc	bc f	*
	Deerness (Orkney)	1022·7	54	SE	5	b	1023·0	*	48	−5	SE	4	–	f	3	–	56	47	bc	bc. b	b.bc.c f	12·4
	Stornoway ...	1022·1	60	SW	5	b	1021·1	−1	55	+1	E	1	–	bc	0	–	62	45	c	c. b	b.bc	3·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1022·2	67	WNW	1	bcz	1023·1	+1	48	−4	E	3	–	m	*	–	69	47	b	bc. c o. cz	bcm. me	11·7
	Eskdalemuir ...	1022·0	67	SSW	3	bz	1022·0	0	58	+3	N	1	–	bzw	*	–	70	45	b. bc	bc. bz	b z	13·7
	Malin Head ...	1021·7	61	SSE	2	c	1021·2	0	56	+1	S	1	S	bc	1	–	63	51	c	c	bc	3·0
	Blacksod Point	1020·8	56	S	4	bc	1019·0	0	55	+1	S	3	S	cg	3	–	54	53	c	bc	cg	*
	Valencia (Cahirciveen)	1021·7	54	S	3	c	1020·4	0	56	+1	SSE	2	S	o	3	–	62	53	o	o. c. bc	c. o. c	2 6
	Roche's Point	1023·3	58	S	1	c	1021·4	*	50	−5	NNW	1	–	bf	1	0·2	61	48	o	o. c	bc. bf	*
	Birr Castle ...	1022·1	58	SSW	1	o	1021·3	*	54	−1	SSW	1	S	c	*	–	62	46	o	o	o. c	0·0
	Donaghadee ...	1021·4	60	SSE	2	bz	1021·0	0	51	0	SSE	1	–	bf	0	–	60	46	bz	bz	bcm f	*
	Liverpool (Bidston)	1022·5	57	W	2	b	1021·2	−3	59	+2	W	1	–	b	1	–	72	53	b	b	b w	13·1
	Holyhead ...	1022·8	57	N	3	bz	1020·5	−1	56	+3	NE	2	–	cm	0	–	60	51	b	bz	bc. o bc	14·5
	Pembroke (St. Ann's)	1022·2	62	NNW	2	b	1020·1	−1	60	+6	–	0	–	b	1	–	63	48	b	b	b	15·1
	Scilly (St. Mary's)	1022·0	59	NE	1	bv	1020·2	0	57	0	–	0	–	b	4	–	61	53	bv	bv	bv	15·0
	Falmouth ...	1021·1	66	NW	1	b	1019·4	0	62	+5	N	1	–	b	*	–	69	54	b	b	b	14·8
	Jersey (St. Aubin)	1020·2	68	E	3	c	1018·1	*	59	+2	NW	2	–	b	1	–	70	49	o. c	cv. bc	o. c. b	4·2
	Portland Bill ...	1020·6	60	NW	3	b	1018·1	−3	59	0	NW	1	–	bc	2	–	66	56	bc	bc. b	bc. c	*
	Dungeness ...	1020·0	56	NE	3	bc	1017·1	−1	57	−1	NE	4	–	or	3	11	69	54	bf. c	c	ct. tr	*
	Dover	1019·8	57	NNW	4	c	1017·6	0	61	+5	N	4	N	bc	2	0·1	66	54	bc. c	c. bc c	cptlr	6·2
	Wick	1022·2	53	SE	3	bc	1022·7	0	48	−3	SE	2	–	f	3	–	57	46	bcm	bcm	bcmfz	*
	Nairn	1021·3	66	–	0	b	1021·9	*	56	+3	E	1	–	bz	1	–	67	45	bc	bcg	bcm	12·2
	Aberdeen ...	1024·1	58	S	4	b	1024·5	+1	48	−11	SE	1	–	o	2	–	63	47	b	b	bm. on	15·1
	Leith	1022·3	57	NE	1	b	1023·2	+1	48	−4	NE	2	–	f	3	–	67	47	b.bz. b	b	bcm. cf	*
	Tynemouth ...	1024·2	57	SE	1	bm	1023·9	0	50	−6	SE	2	–	ogm	2	–	59	49	bm	bm	ogm	*
	Spurn Head ...	1024·4	51	ENE	3	f	1023·0	−1	49	−6	NE	3	–	f	3	–	60	47	f	f	b	7·0
	Yarmouth (Gorleston)	1021·8	55	NE	4	o	1019·9	0	57	+3	NE	3	–	b	3	–	68	54	bcm. om	om	bcm. b	0·0
	Clacton-on-Sea	1020·5	66	NNE	2	c	1018·7	0	60	+2	NNE	3	–	bc	2	–	67	54	bcz	bc. cz	cz. c bc	8·0
	Nottingham ...	1022·2	63	E	3	b	1022·0	*	51	−6	NE	2	NE	o	*	–	72	47	b	b	b	12·8
	Benson (Oxon.) ...	1020·8	70	NNE	3	bc	1019·2	+1	53	−8	NNE	3	–	o	*	–	73	52	b	bc	c	*
	Sth Farnborough	1019·6	70	NNW	2	c	1018·8	−1	54	−4	NE	2	–	om	*	Trace	73	54	c	c. o c	c bc opom	8·5
	London (Kew Obsy.)	1020·4	69	N	3	oz	1019·4	0	55	−7	NNE	2	–	om	*	–	72	54	bz. oz. cz	cz. oz	az. o. on	6·3
NORTHERN EUROPE.	Spitsbergen ...	1019·2	32	–	0	b	1020·6	0	32	+5	–	0	*	b	*	*	37	16				
	Vardö	1016·2	45	–	0	bc	1017·6	+3	?	–	–	0	–	o	2	*	52	34				
	Bodö	1021·8	46	SW	4	o	1027·2	+3	45	−10	SW	3	–	r	2	–	50	43				
	Christiansund ...	1028·8	52	NW	2	b	1027·4	−1	54	0	NNE	2	W	b	2	–	54	48				
	Skudesnaes ..	1025·0	52	NW	1	b	1026·0	+1	61	0	SE	1	–	b	1	–	61	46				
	Færder (X'lania Fjord)	1024·8	61	WSW	2	b	1027·9	+1	61	+2	NNE	1	–	m	0	–	63	57				
	The Scaw (Skagen)	1025·8	61	N	1	bc	1026·7	+1	63	+6	NNE	1	–	b	1	–	63	50				
	Blaavands Huk	1024·2	66	NNE	1	b	1025·6	*	66	+3	E	2	–	b	*	–	66	50				
	Copenhagen ...	1024·7	64	SW	2	b	1026·0	+1	59	+4	SW	1	–	b	*	–	66	54				
	Bornholm ...	1024·6	54	ESE	2	b	1026·0	+1	55	+9	ESE	3	–	b	0	–	59	45				
FRANCE, &c.	The Helder ...	1020·4	66	NE	5	b	1018·8	0	63	0	E	3	–	b	2	–	66	63				
	C. Gris Nez ...	1019·8	54	NE	4	m	1017·4	−2	55	+4	NNE	3	*	o	2	6	55	52				
	La Hève	1020·3	61	NE	1	bc	1018·0	*	54	−2	NNW	3	*	m	2	3	68	52				
	Brest (St. Mathieu)	1020·3	64	NE	3	bc	1019·0	0	64	+3	E	1	*	b	3	–	70	55				
	Rochefort (Ile d'Aix)	1016·8	73	E	1	c	1016·2	0	64	0	ESE	2	*	o	*	–	82	63				
	Biarritz	1016·4	68	NNW	2	c	1016·7	0	66	–	WSW	2	*	o	2	1	73	63				
	Paris	1017·6	70	N	2	bc	1016·4	+1	62	−4	–	0	–	o	*	–	72	55				
	Belfort	1017·9	64	WSW	2	clr	1017·1	*	62	+1	WSW	2	*	o	*	9	82	59				
	Lyons	1016·4	67	NW	4	clr	1015·9	*	65	−2	–	0	*	o	*	3	89	60				
	Nice	1014·4	70	SW	1	b	1014·0	+1	71	−1	S	1	*	b	0	–	80	63				
	Perpignan ...	1015·9	68	W	1	bc	1015·6	+2	74	−1	E	1	SW	b	*	5	84	?59				
	Sanguinaire ...	1016·2	77	N	3	m	1015·8	*	73	–	E	2	*	m	1	–	88	64				
SOUTHERN STATIONS.	Corunna	1017·0	68	N	5	b	1017·8	+2	61	−3	N	1	–	f	1	?	70	59				
	Madrid	1014·3	75	–	0	c	1017·4	+2	64	−2	–	0	–	b	*	–	77	59				
	Lisbon	1015·4	70	NW	5	bc	1018·3	+1	63		NNW	4	–	b	*	–	86	61				
	Azores (Horta) ...	1024·7	*	SW	5	r									*							
	Madeira	1023·5	66	NE	2	o	1024·7	0	59	−2	NE	3	–	b	3	–	66	59				
	Gibraltar	1018·3	68	E	3	bc	1017·6	*	67		NW	4	*	b	3	†	75	64				
	Malta	*	*	*	*	*	1015·4	+2	73		E	1	–	b	0	–	75	68				
	Limassol	*	*	*	*	*	1006·2	+1	79	−2	–	0	–	b	2	–	84	61				
	Alexandria ...	1011·8	73	NNW	1	b	1012·2	+2	75	0	–	0	–	b	1	–	80	70				
	Cairo (Helwan) ...	1010·6	80	NNW	3	b	1011·2	+2	73	+1	NW	2	–	b	*	–	91	64				

NOTE

SOLAR HALO was observed at Greenwich during Yesterday (10th) afternoon.

LONDON OBSERVATIONS.

	Humidity. 15 h. 10th	Humidity. 9 h. 11th	Sunshine for 10th	24 Hours ended 9 h. 11th. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	52	77	7.5	75	52	51	–	c	c	c. o b o
CITY (Bunhill Row)	*	*	5.5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	54	77	5.7	74	53	–	–	bc	b	bc
CAMDEN SQ. (British Rainfall) ..	–	55	5.5	78	53	52	–	–	–	*
HAMPSTEAD (Reservoir)	*	78	6.4	71	49	42	–	bc	bc	c. o
S. KENSINGTON (Museum Grounds)	*	70	6.3	–	55	54	–	bc	bc. c	c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 10th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1722	29.9	71

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

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

Issue No. 20,291 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Tuesday 12th June.

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Monday 11th June. 1917.

Temperature exceeded 75° at some English and Welsh Stations, but remained low along the North-East coast of Britain, where there was a good deal of fog. Thunder occurred locally in the South-East of England during the evening, but generally the weather was fair or bright, with many hours of sunshine.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Monday 11th June. UP TO 17 H.

	STATIONS.	Sunshine for 10th	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 11th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	8·9	–	–	71	49	b	b	11·4
	Banff	15·8	–	–	64	47	b	b	9·4
	Montrose	12·1	–	–	62	43	o	o	0·0
	St. Andrews		–	–	53	47	of	of	
	Carnoustie	*	*	*	55	47	o	o.c	0·1
Eng. N.E.	Harrogate	13·4	–	–	70	44	om.c.b	b.	8·3
	Skegness	9·0	–	–	61	50	bc.b	b.	8·8
Eng. N.W.	Morecambe		–	–	78	?			12·0
	Southport	13·3	–	–	63	49	b.bc	c.o.c	9·5
Midlands.	Leamington Spa								
	Malvern		–	–	74	52	b.	b.	12·0
	Ross-on-Wye	11·6	–	–	74	51	b.	b.	10·4
Wales.	Rhyl	10·8	–	–	78	47	c.bc	bc.c	6·6
	Colwyn Bay	*	*	*	68	51	bc	bc	11·3
	Llandudno	*	*	*	69	53	b.	b.	11·8
	Aberystwyth	*	*	*	66	54	c. b	c	11·0
England, E.	Lowestoft								
	Felixstowe	9·0	–	–	70	52	b.	b.bc	11·9
	Walton-on-Naze		–	–	66	54	b.	b.bc	11·2
	Southend-on-Sea	6·4	–	–	77	53	b.bc	b.	9·5
England, S.E.	Margate	0·5	–	–	62	54	bc.b	b.	9·8
	Hastings	7·5	21	–	73	55	tkr. bc	b.	5·7
	Eastbourne	7·5	21	Trace	73	55	o.c	bc.b.	5·6
	Seaford	*	*	*	73	55	o.c	bc	5·9
	Brighton	10·4	11	–	74	55	o. bc	bc	8·2
	Worthing	9·8	5	–	74	55	o.c	bc.b	5·1
	Littlehampton	*	–	–	72	60	–	–	6·5
	Bognor								
	Bournemouth	9·7	–	–	74	56	c.	b	6·0
England, S.W.	Weymouth	*	*	*	72	57	c.bc	bx	5·0
	Torquay	13·7	–	–	70	56	b.	b.bc.b	11·4
	Paignton								
	Penzance		–	–	75	56	b.	b.	11·5
	Newquay	14·0	–	–	63	48	b.	b.	10·3
	Bude								
	Ilfracombe		1	–	70	48	bx.	bx	6·6
	Weston-s-Mare		–	–	73	49	b.bc.b	b	9·0

REPORTS FROM FOREIGN STATIONS FOR Monday 11th June.

	STATIONS.	Evening of 10th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 11th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time	Archangel	1018·3	57	–	0	b									*	
	Gorki	1019·9	57	–	0	b	1019·0	?	63	+14	E	1	b	1	*	50
	Velieki Luki	1020·8	63	SW	1	0	1021·6	*	61		–	0	b	–	*	54
	Hangö	1024·0	57	–	0	b	1024·8	0	59	+14	–	0	b	–	*	48
	Riga	1023·9	57	WNW	1	b	1024·4	0	63	+2	NNW	1	b	–	*	54
	Petrograd	1023·0	61	–	0	b	1022·6	+1	59	−2	WSW	2	b	–	68	52
	Moscow	1018·7	64	NE	1	bc	1020·2	+1	61	0	–	0	b	–	*	62
	Kiev	1015·9	50	NNE	4	bc	1016·2	+2	57	0	N	3	b	–	*	50
	Kharkov	1013·7	57	–	0	0	1013·1	0	59	+14	NE	2	o	2	*	55
	Kishinev	1020·2	59	NW	3	bc	1013·0	0	57		W	2	c	2	*	62
	Elisabetgrad	1012·4	57	NNE	2	0	1012·0	0	55		NNE	3	0	5	*	54
	Nicolaiev	1010·3	59	NNE	4	bc	1010·7	*	57		NNE	4	c	12	*	54
	Odessa														*	
	Tarkhankout	1008·4	59	SW	7	0	1008·3	*	67		NNW	4	0	20	*	54
	Soukhoum														*	
Mediterranean.	Venice	1015·9	73	–	0	c	1015·9	*	66	−6	E	2	r	Trace	79	66
	Pesaro	1016·9	70	–	0	b	1015·4	*	70	0	–	0	bc	–	79	59
	Rome	1015·7	72	N	1	bc	1014·9	*	75	+3	–	0	b	–	86	63
	Viesti	1016·5	75	WNW	1	b	1015·8	*	73	−4	–	0	f	–	77	66
	Brindisi	1016·5	72	SSW	1	b	1014·6	*	68	−4	NW	1	b	–	73	64
	Cagliari	1014·6	77	SE	2	b	1014·9	*	75	0	WSW	2	b	–	81	59
	Palermo						1014·9	*	73	0	–	0	b	–	82	64
	Tripoli						1014·6	*	64		WNW	1	f	–	73	63
	Algiers	1014·8	68	ENE	3	c	1017·1	+5	68	0	WSW	3	o	–	77	66
Sweden.	Hernösand	1024·7	70	–	0	b	1027·1	*	63	+13	–	0	b	*	*	*
	Stockholm	1022·4	72	S	2	b	1026·4	*	64	−2	NNE	2	bc	*	*	*
	Wisby	1025·2	55	WNW	2	b	1026·6	*	59	+4	WSW	2	b	*	*	*

Morning of 11th

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1013·6	45	0	–	0	c
Reykjavik	1009·8	52	0	SE	3	c
Vestmanna						
Seydisfjord	1014·9	52	+4	–	0	c
Thorshavn	1021·9	52	−6	–	0	m

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

12th & 13th June 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·32	11·52	8·13
	3·32	11·53	8·14
Greenwich	3·45	11·59	8·14
	3·45	12·0	8·15
Wick	3·8	12·11	9·15
	3·8	12·12	9·16
Valencia	4·23	12·40	8·58
	4·23	12·41	8·59

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

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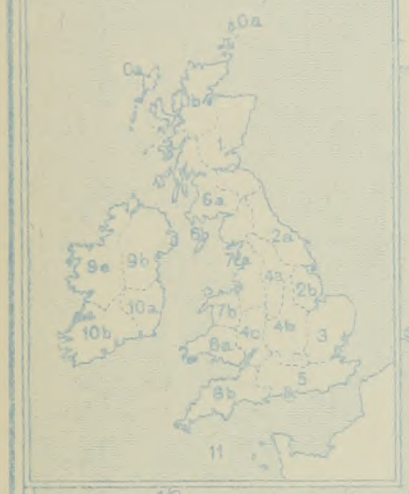
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Tuesday, 12th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.



EXPLANATION.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

General Inference

Little change is probable in the general distribution of pressure. A depression far out on the Atlantic will approach nearer the British Isles.

LOW

1020 mb

30.12 in.

40°

1025 mb

50°

Stationary

HIGH

Barometer

Bar. falling slowly

60°

Bar. rising slowly

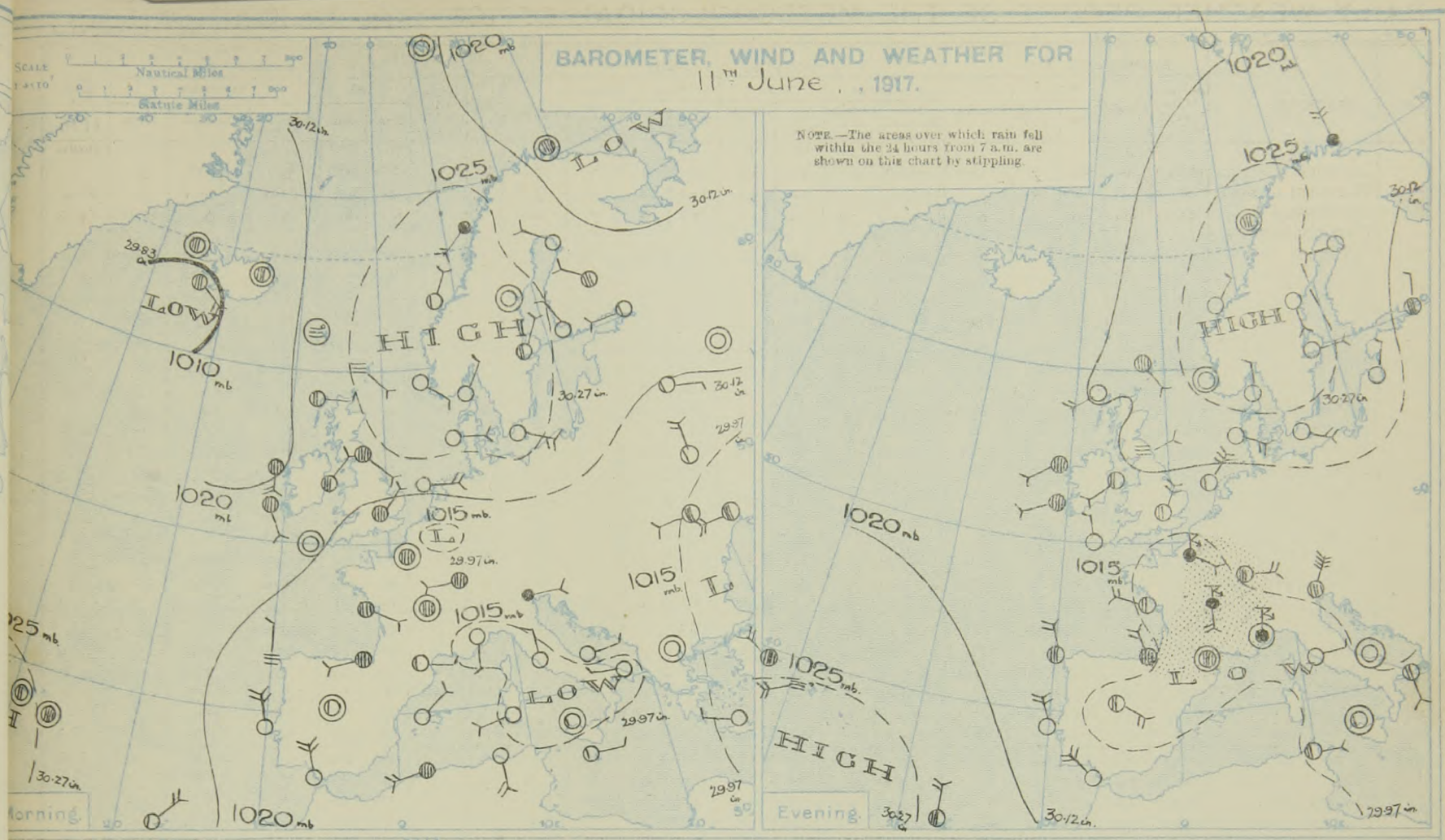
29.97 in.

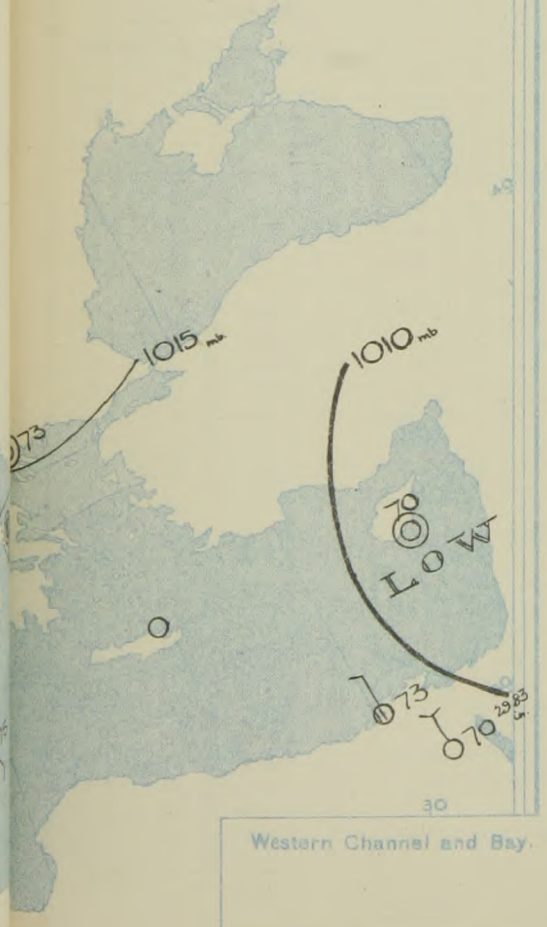
1020 mb

HIGH

Scale 1:23·10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 600

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





Forecasts 18h. Tuesday to 18h. Wednesday

0 (a, b), 1 — E. or SE. winds, light; fair generally, but mist or fog on coast. Moderate temperature.

2 (a, b), 3, 4 (a, b, c), 5 — E. or NE. winds, light; fair or bright; temperature rather high.

6 (a, b) — NE. and E. winds, light; cloudy; warm.

7 (a, b), 8 (a, b) — Wind mainly between E. and SE, light; fair generally, some coastal mist or fog locally; warm.

9 (a, b), 10 (a, b) — Variable to SE. winds, light; cloudy to overcast, mist locally; moderate temperature.

11 — Wind becoming SE. or E. light to moderate; sea smooth or slight; fair, some mist.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 163. Tuesday, 12th JUNE.

	STATIONS.	EVENING OF 11th				MORNING OF 12th								24 HOURS ENDED 7 A.M.					Sunshine for 11th.
		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 ...	1023·9	50	SSE	2	om	1023·7	0	49	+2	S	1	–	f	1	–	52	47	f	f.om	f	*
	Deerness (Orkney)	1021·3	49	SE	4	f	1021·3	*	49	+1	SSE	3	–	f	2	–	51	47	f.m	m.f	f	0·0
	Stornoway ...	1020·1	65	SW	3	b	1019·4	-2	56	+1	NE	3	–	cz	3	–	67	50	b	b	bc.cz	12·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1020·8	56	ENE	2	0	1020·9	0	48	0	E	3	–	m	*	–	63	47	bmz	bz.omu	o.c.ome	5·6
	Eskdalemuir ...	1019·4	67	NE	2	b	1019·9	0	58	0	NE	1	–	bw	*	–	73	48	bz	bcz	b	14·1
	Malin Head ...	1019·0	56	S	4	c	1017·5	*	54	-2	NE	1	E	cm	1	–	60	52	c	c	c.m	3·7
	Blacksod Point	1019·4	53	SW	2	ogp	1015·9	-3	53	-2	NNE	1	–	eg	1	1	54	52	c,	og	cgp.cg	*
	Valencia (Cahirciveen)	1019·2	56	WSW	2	o	1015·6	-2	55	-1	–	0	S	c	0	0·1	60	52	o	o	op.c.o	0·0
	Roche's Point	1019·2	59	SSW	2	c	1016·4	*	56	+6	SW	1	SW	cm	1	0·3	63	49	bc.o	o.c	o.cmw	*
	Birr Castle ...	1018·0	66	SW	1	c.	1015·7	*	54	0	SW	1	–	m	*	–	69	46	c	c	f	7·4
	Donaghadee ...	1018·4	60	ESE	1	bf	1017·6	-1	50	-1	NNE	2	–	cf	2	–	61	49	bm	bf	of	*
	Liverpool (Bidston)	1019·6	70	ENE	1	m	1017·1	0	64	+5	E	1	–	b	1	–	75	56	b	b	bm	12·2
	Holyhead ...	1018·2	69	SW	2	bcm	1016·3	0	60	+4	SSW	2	–	bcm	1	–	64	52	bcm	bcm	bcmw	11·2
	Pembroke (St. Ann's)	1017·3	67	N	2	bc	1016·3	0	60	0	ENE	2	–	b	1	–	71	51	b.bc	bc	b	12·9
	Scilly (St. Mary's)	1017·9	61	NNW	1	b	1016·4	-1	57	0	–	0	–	bm	3	–	66	53	b	b	bm.bcm	13·6
	Falmouth ...	1016·4	69	N	2	bz	1015·1	0	63	+1	NNE	1	–	b	*	–	74	54	b.bc	b	b	13·5
	Jersey (St. Aubin)	1016·4	67	SE	1	b	1015·3	*	58	-1	W	1	–	bm	0	–	74	52	bc.b	b	bmw	10·8
	Portland Bill ...	1016·6	60	WNW	3	b	1015·2	0	60	+1	ENE	3	–	b	2	–	63	56	bc.c	c.bc	c.bc.b	*
	Dungeness ...	1015·1	58	NE	3	bc	1014·9	0	59	+2	NE	1	–	c	1	0·1	61	53	cp.o	o.bc	c.b.bc	*
	Dover	1015·7	66	N	2	b	‡1015·6	6	66	+5	NE	2	NE	b	2	–	74	53	c.bc.b	b	b	9·1
	Wick	1020·8	51	SE	3	me	1021·0	0	50	+2	SSE	1	–	bfe	2	–	53	46	fe.bcm.b	bcm	bcm.fe	*
	Nairn	1018·9	60	–	0	bcz	1020·9	*	54	-2	–	0	–	bz	0	–	62	44	bcz	bcz	bcw	12·4
	Aberdeen ...	1022·8	51	SSE	3	om	1022·2	0	49	+1	–	0	–	m	2	–	56	46	o	o.bc.o	omf	2·8
	Leith	1021·0	50	E	2	f	1020·8	0	49	+1	E	1	–	f	2	Trace	51	47	f.m	m.f	f	
	Tynemouth ...	1022·1	52	ENE	2	f	1020·7	0	48	-2	N	3	–	f	3	–	54	47	om	om	f	*
	Spurn Head ...	1020·3	57	NE	4	bcm	1018·4	0	55	+6	ENE	3	–	bc	4	–	59	48	cm	bcm	b	10·3
	Yarmouth (Gorleston)	1016·8	60	ENE	4	b	1016·6	+1	59	+2	–	0	–	bcm	2	–	65	53	b	b.bc	bcm.b	11·5
	Clacton-on-Sea	1016·4	64	ENE	3	b	1016·6	0	60	0	NE	2	E	c	2	–	71	52	bc.b	b.bc	bc.bw	13·5
	Nottingham ...	1018·3	68	NE	3	b	1017·9	*	53	+2	NE	2	NE	o	*	–	73	51	o.c.b	b	b	10·9
	Benson (Oxon.) ...	1016·0	74	NNE	3	b	1016·0	+1	56	+3	NNE	1	–	o	*	–	77	52	bc	b	b	*
	Sth Farnborough	1015·1	70	NNW	2	b	1016·0	+1	57	+3	ENE	3	–	om	*	–	78	53	o.b	b.bc.b	bc.c.om	6·5
	London (Kew Obsy.)	1015·0	75	NNE	4	bcu	1016·4	+1	59	+4	NNE	1	E	bm	*	–	77	55	om.o.c	c.bc	ct.bzbm	7·2
NORTHERN EUROPE.	Spitsbergen ...	1019·9	34	N	1	b	1016·6	-1	36	+4	S	2	*	b	*	*	41	28				
	Vardö	1022·2	41	N	4	r	1021·0	0	39	—	S	4	–	o	2	*	41	39				
	Bodö	1028·8	48	–	0	c	1027·4	-1	54	+9	E	1	–	b	1	–	48	43				
	Christiansund ...	1026·2	63	NE	1	b	1026·7	0	61	+7	–	0	–	b	2	–	66	54				
	Skudesnaes ..	1025·9	68	–	0	b	1025·1	0	66	+5	SE	3	–	b	1	–	68	55				
	Færder (X'tiania Fjord)	1025·2	66	WSW	1	b	1023·9	0	63	+2	NNE	1	–	b	1	–	70	61				
	The Scaw (Skagen)	1025·5	64	N	1	b	1025·5	0	64	+1	SE	1	–	b	0	–	66	59				
	Blaavands Huk	1022·8	75	SE	3	b	1023·6	*	68	+2	E	2	–	b	*	–	80	48				
	Copenhagen ...	1024·8	64	NNW	2	b	1025·6	0	59	0	E	2	–	b	*	–	72	55				
	Bornholm ...	1024·6	57	ESE	3	b	1025·6	+1	59	+4	NE	2	–	b	0	–	59	50				
FRANCE &c.	The Helder ...	1016·2	70	NE	5	b	1017·5	0	64	+1	E	3	S	b	1	Trace	72	63				
	C. Gris Nez ...	1015·3	57	NE	4	b	1015·6	0	60	+5	NE	4	*	c	2	–	59	54				
	La Hève	1016·2	54	NNW	2	m	1015·2	*	54	0	NNW	1	*	f	1	–	63	54				
	Brest (St. Mathieu)	1017·0	68	NNW	3	b	1016·6	0	58	-6	NW	1	*	m	2	–	72	55				
	Rochefort (Ile d'Aix)	1014·2	72	NW	3	bc	1014·8	+1	63	-1	NW	1	*	o	*	–	80	61				
	Biarritz	1015·4	67	NNW	3	o	1016·3	+1	64	-2	WSW	3	*	o	3	10	76	63				
	Paris	1014·0	62	SW	3	tlr	1014·6	+1	64	+2	–	0	–	o	*	30	75	57				
	Belfort	1015·2	63	E	3	c	1016·4	*	61	-1	ENE	4	*	m	*	1	72	47				
	Lyons	1014·2	61	S	3	tlr	1015·0	*	62	-3	–	0	*	r	*	19	81	59				
	Nice	1014·4	61	–	0	tlr	1014·6	+2	70	-1	–	0	*	c	1	8	79	59				
	Perpignan ...	1012·2	73	–	0	o	1014·4	+2	72	-2	W	2	–	b	*	1	79	61				
	Sanguinaire ...	1015·5	75	NW	8	m	1014·6	*	72	-1	E	2	*	m	2	–	86	64				
SOUTHERN STATIONS.	Corunna	1018·4	64	NNW	3	c	1018·7	+1	64	+3	SW	2	–	o	1	–	66	61				
	Madrid	1012·8	73	ESE	3	bc	1016·8	+1	63	-1	–	0	–	b	*	Trace	79	55				
	Lisbon	1018·4	66	NNW	4	b	1019·1	0	66	-2	WNW	1	–	bc	*	–	72	59				
	Azores (Horta) ...	1025·0	*	WSW	4	m	1019·6	-1	63	+4	SW	6	*	r	3	–	68	63				
	Madeira	1024·7	66	N	3	c	1023·4	-1	61	+2	N	3	–	b	3	–	66	61				
	Gibraltar	1017·9	68	NW	4	b	1018·3	*	66	-1	W	5	*	b	3	–	75	64				
	Malta	*	*	*	*	*	1014·4	+3	75	+2	SSE	1	*	c	0	–	80	68				
	Limassol	*	*	*	*	*	1008·6	0	70	-9	–	0	–	b	2	–	64	57				
	Alexandria ...	1011·9	72	NW	2	b	1012·3	0	73	-2	N	1	NW	bc	1	–	82	68				
	Cairo (Helwan) ...	1010·2	82	N	2	b	1011·8	+1	70	-3	N	2	–	b	*	–	93	66				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h.	Humidity. 9 h.	Sunshine for	24 Hours ended 9 h. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	44	71	9·1	80	55	42	–	c	c.b	c.cm.
CITY (Bunhill Row)	*	*	7·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	41	64	6·9	74	56	53	–	bc	bc	b
CAMDEN SQ. (British Rainfall) ..	41	65	8·4	84	54	52	–	c.b	b	*
HAMPSTEAD (Reservoir)	*	72	9·8	77	50	43	–	bc	bc	bc
S. KENSINGTON (Museum Grounds)	*	70	7·4	81	57	52	–	c.	c.bc	bc

SOUTH KENSINGTON.

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

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1668	28·1	75·5

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

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

Issue No. 20,292 DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. WEDNESDAY 13 JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON TUESDAY 12 JUNE 1917.

Temperature rose to between 75° and 80° in many parts of the kingdom and touched 80° at Kew. Much bright sunshine was recorded generally, but a few localities reported passing thunderstorms, and others experienced slight rain.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR TUESDAY 12 JUNE UP TO 17 H.

	STATIONS.	Sunshine for 11TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 12TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	12·9	-	-	78	52	hc	b	10·0
	Banff	12·2	-	-	72	45	b	b	11·5
	Montrose	0·0	-	-	59	41	b	b	8·1
	St. Andrews		-	-	57	45	of	of	6·7
	Carnoushie	✕	✕	✕	63	48	bc	bc	8·8
Eng. N.E.	Harrogate	10·6	-	-	75	47	bcm.b	b	8·1
	Skegness	11·3	-	-	65	50	bc	bc	8·9
Eng. N.W.	Morecambe	13·0	-	-	78	58			10·7
	Southport	10·2	-	-	77	50	b	b. bc. c	11·0
Midlands.	Leamington Spa								
	Malvern	14·0	-	-	74	53	b	b	12·0
	Ross-on-Wye	12·7	-	-	74	49	b. bc	b	11·1
Wales.	Rhyl	7·3	-	-	78	52	c. bc	b	12·0
	Colwyn Bay	✕	✕	✕	72	53	bc	bc	11·8
	Llandudno	✕	*	*	70	54	b	b	11·7
	Aberystwyth	✕	*	*	74	55	c. bc	c. bc	10·5
England. E.	Lowestoft	12·5	Jr	-	62	54	c	bc. b	6·7
	Felixstowe	13·5	-	-	71	49	bc. c	b	7·9
	Walton-on-Naze	13·0	-	-	69	53	bcz.c	bc.b. bc	6·5
	Southend-on-Sea	11·5	-	-	77	54	bz	b	7·7
England. S.E.	Margate	11·8	-	-	65	55	bc. b	b	7·7
	Hastings	7·9	-	-	74	56	b	b	12·4
	Eastbourne	7·6	-	-	69	55	b	b	11·6
	Seaford	7·3	✕	✕	77	54	b	b	11·4
	Brighton	6·9	-	-	70	56	b	b	12·0
	Worthing	6·1	-	-	72	55	b	b	11·9
	Littlehampton								
	Bognor								
	Bournemouth	6·0	-	-	75	54	b	b	13·0
England. S.W.	Weymouth	✕	*	*	71	57	bcz	bz	11·7
	Torquay	13·5	-	-	67	58	b	b	12·3
	Paignton								
	Penzance	13·5	-	-	71	55	b	b	10·5
	Newquay	12·2	-	-	70	52	b	b	10·2
	Bude		-	-	72	51	b	ct	9·5
	Ilfracombe	10·0	-	-	74	55	bz	bz	8·5
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR TUESDAY 12 JUNE

	STATIONS.	Evening of 11: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 12: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Gorki	1018·3	63	-	0	b	1017·7	?	63	0	-	0	b	-	*	50
	Velieki Luki	1018·7	64	SW	2	b	1018·1	*	63	+2	WSW	3	b	-	*	55
	Hangö						1026·3	+2	59	0	-	0	b	-	*	48
	Riga	1022·0	57	NNE	1	b	1022·3	-1	61	-2	NNE	1	b	-	*	52
	Petrograd	1018·4	63	NNE	2	b	1021·5	+2	57	-2	NNE	2	b	-		52
	Moscow	1017·6	64	NNW	1	b	1014·6	-1	64	+3	NW	1	bc	-	*	52
	Kiev	1015·3	63	ENE	3	bc	1015·0	0	59	+2	ENE	3	0	-	*	55
	Kharkov	1013·2	59	E	1	r	1017·3	-2	59	0	-	0	0	3	*	54
	Kishinev														*	
	Elisabetgrad	1011·9	755	NNE	3	r									*	
	Nicolaiev	1009·6	59	NNE	3	0	1009·9	*	57	0	ENE	3	0	9	*	54
	Odessa	1010·9	61	NNE	4	0	1011·0	+1	59		ENE	3	0	4	*	55
	Tarkhankout						1007·8	*	59	+2	N	4	c	3	*	57
	Soukhoum														*	
Mediterranean.	Venice	1015·3	68	NNE	1	c	1015·4	*	68	+2	ENE	1	0	1	73	64
	Pesaro	1014·6	72	-	0	0	1015·5	*	70	0	-	0	b	-	79	61
	Rome	1014·9	72	E	1	b	1015·0	*	73	-2	NE	1	bc	-	86	63
	Viesti	1015·1	72	-	0	b	1015·3	*	75	+2	-	0	0	-	75	68
	Brindisi	1014·9	72	S	2	bc	1014·9	*	68	0	-	0	c	-	75	64
	Cagliari						1013·9	*	75	0	SE	3	c	-	81	67
	Palermo	1014·7	73	-	0	b	1014·9	*	73	0	-	0	b	-	83	71
	Tripoli						1024·2	*	88	+24	?	?	b	-	90	64
	Algiers															
Sweden.	Hernösand	1026·0	68	S	2	b	1027·1	*	66	+3	N	2	b	*	*	*
	Stockholm	1025·8	70	E	2	b	1027·3	*	70	+6	ESE	2	b	*	*	*
	Wisby	1025·1	66	NNE	2	b	1025·9	*	55	-4	N	2	b	*	*	*

Morning of 12

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1012·3	45	0	N	1	f
Reykjavik	1010·3	53	+1	SE	2	r
Vestmanna						
Seydisfjord	1013·5	61	+9	S	4	b
Thorshavn	1022·3	54	+2	-	0	m

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

13-14 JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 32	11 53	8 14
	3 31	11 53	8 14
Greenwich	3 45	12 0	8 15
	3 44	12 0	8 16
Wick	3 8	12 12	9 16
	3 7	12 12	9 17
Valencia	4 23	12 41	8 59
	4 22	12 41	8 59

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

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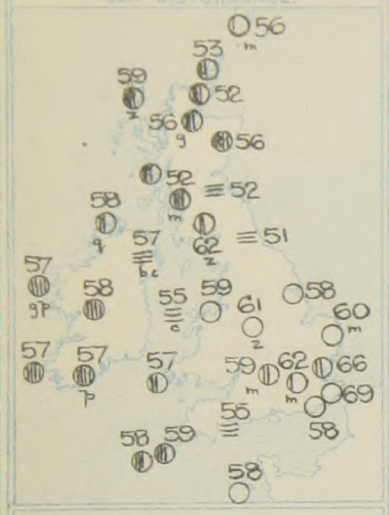
‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

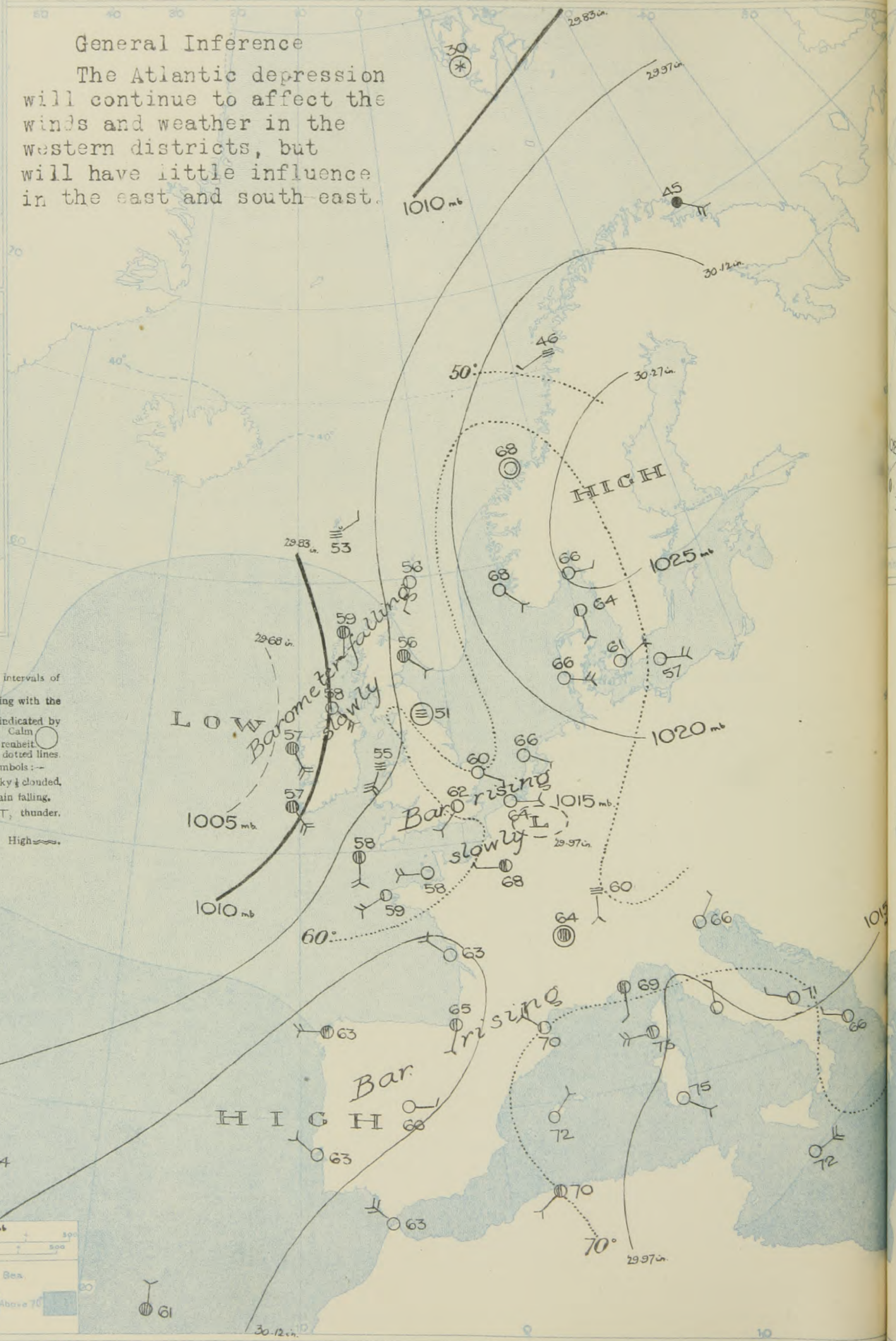


FORECAST DISTRICTS.

THE MORNING OF Wednesday, 13th JUNE, 1917.

General Inference

The Atlantic depression will continue to affect the winds and weather in the western districts, but will have little influence in the east and south 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 ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

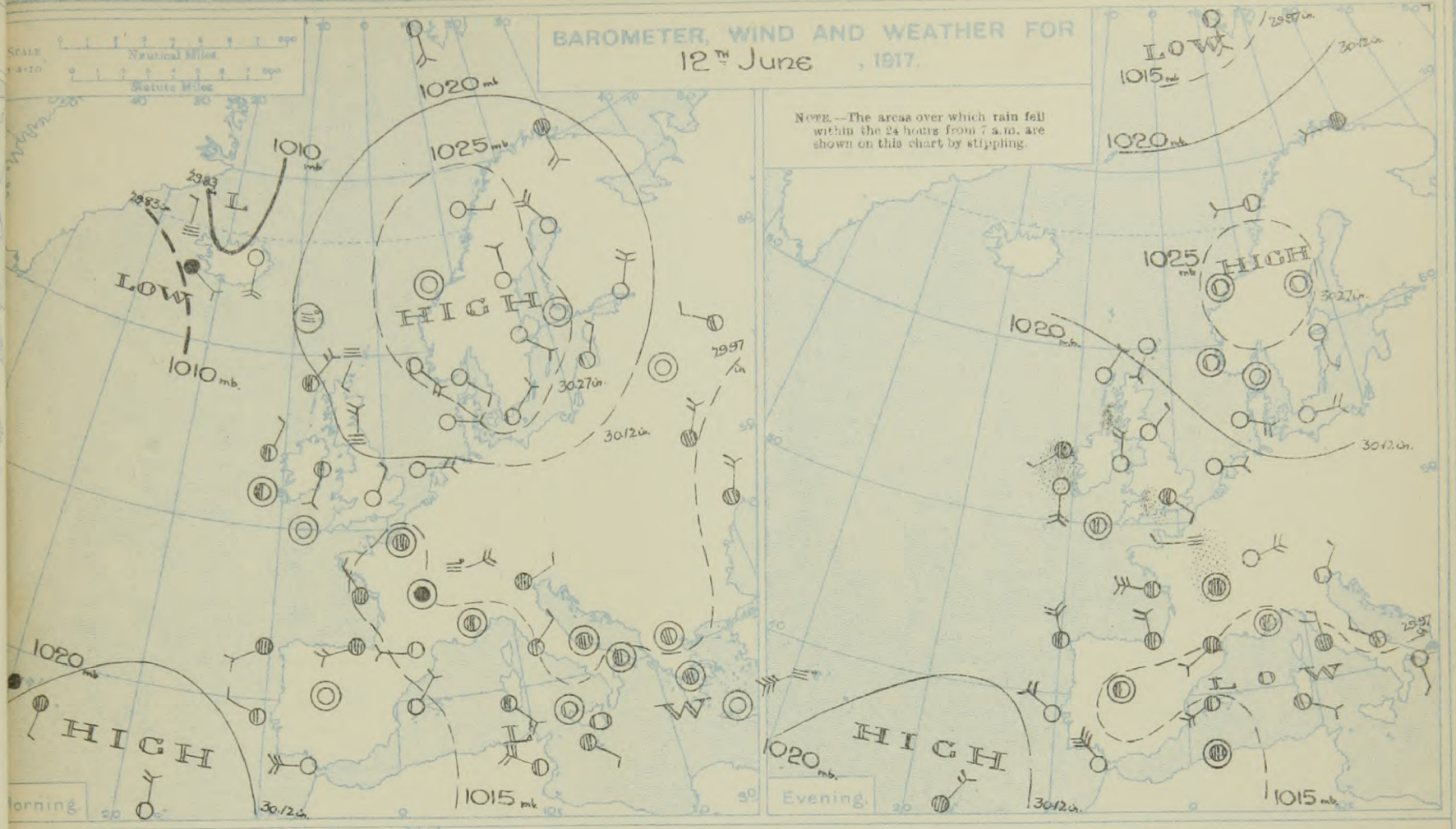
SEA DISTURBANCE.—Rough ~~. High ≈≈.

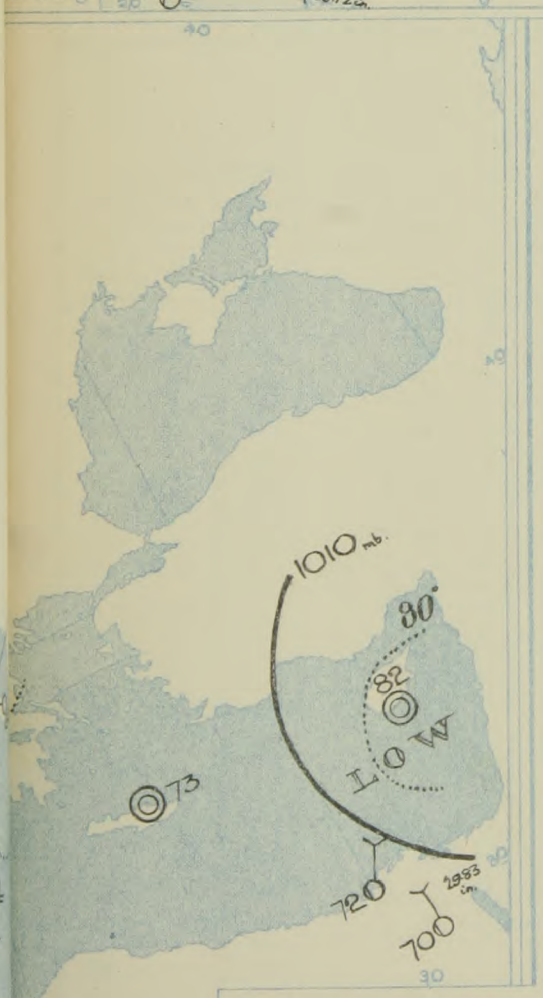
Scale 1:12:10
Nautical Miles 0 100 200 300 400 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

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

Scale of Tints for JUNE.





Forecasts 18h. Wednesday to 18h. Thursday

0 (a, b), 1, 2 (a, b) — S. and SE. winds, moderate or light; fair generally, but perhaps thunder locally, coast fog; rather warm.

3, 4 (a, b, c), 5 — Wind mainly between SE. and SW. light; fine generally, perhaps thunder locally, some fog on coast. High temperature.

6 (a, b), 7 (a, b), 8 (a, b), 9 (a, b), 10 (a, b) — Wind mainly S, light or moderate, fresh in places; cloudy, some showers, perhaps thunder locally, some coast mist or fog. Moderately warm.

11 — S. and SW. winds, light to fresh; sea slight to moderate; cloudy, some showers and mist.

FURTHER OUTLOOK.

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

20 AB

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 104 {Wednesday, 13th JUNE.

	STATIONS	EVENING OF 12th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 13th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 12th Hours.
BRITISH ISLANDS.	Lerwick ...	1021·7	57	SSW	2	bm	1017·7	-1	56	+7	SSW	1	–	bm	1	–	63	49	f.bm	bm	bc	*
	Deerness (Orkney)	1017·9	56	ESE	5	bc	1015·2	*	53	+4	SE	4	SW	bc	3	–	60	49	f.c.bc.b	b.bc	bc	12·0
	Stornoway ...	1015·4	64	NE	2	bz	1011·0	-2	59	+3	S	1	–	cx	0	–	73	51	bcz	bz	bcx	10·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1014·9	61	E	3	c t l r	1014·3	0	52	+4	E	2	S	c m	*	3	68	48	b m z	b z . t l r	c t . o m . c	6·7
	Eskdalemuir ...	1015·1	67	ESE	4	bcz	1014·6	-1	62	+4	NNW	1	–	bcz	*	–	72	52	bw.b.bc	bc	c.b.bcz	12·3
	Malin Head ...	1012·3	60	E	3	bcm	1010·0	*	58	+4	SE	3	SE	bcq	3	–	61	50	cmp	cm	bc	6·7
	Blacksod Point	1011·1	56	SW	1	cx	1006·2	-3	57	+4	SSE	4	–	ogp	4	2	66	51	cx	cpt	bc.omn	*
	Valencia (Cahirciveen)	1012·4	61	S	4	b	1007·6	-3	57	+2	SSE	4	S	o	3	1	64	55	c.o.c	c.bc.b	bc.cp	6·7
	Roche's Point	1014·5	58	SW	3	c	1012·1	*	57	+1	S	3	–	op	3	1	62	54	c.om	o.c	bc.op	*
	Birr Castle ...	1012·6	64	S	1	c	1011·1	*	58	+4	S	2	–	o	*	–	74	51	xt	ct	o	6·1
	Donaghadee ...	1013·2	64	SE	2	bcf	1012·7	+1	57	+7	NNW	2	–	bcf	2	–	65	49	bcf	bcf	bcm.om	*
	Liverpool (Bidston)	1013·4	74	ESE	2	b	1015·0	+1	59	-5	WSW	1	–	b	1	–	77	58	b	b	bcm	11·7
	Holyhead ...	1013·3	63	N	3	bz	1014·9	+1	55	-5	SSW	5	SW	cfqg	4	–	71	52	bc.b	bc.b	b.bc.c	10·4
	Pembroke (St. Ann's)	1014·9	61	–	0	b	1016·6	0	57	-3	SE	2	E	bc	1	–	63	53	b	b	bc	11·7
	Scilly (St. Mary's)	1016·0	60	–	0	bc	1016·5	-1	58	+1	S	3	SW	c	3	–	64	54	b	b.bc	bc.c	10·7
	Falmouth ...	1014·6	63	NNW	1	bz	1017·1	0	59	-4	SW	3	–	c	*	–	70	52	b.bc	b.bc.c	bc	10·7
	Jersey (St. Aubin)	1015·0	64	WNW	3	o	1016·7	*	58	0	W	3	–	b	2	–	71	55	bm.b	b.bc.c.o	bcm.bw	9·8
	Portland Bill ...	1014·5	57	W	1	bc	1016·6	+2	55	-5	–	0	–	f	2	–	63	54	b.bc	b.bc	bcf	*
	Dungeness ...	1013·9	61	E	4	c	1015·9	+1	58	-1	NNE	1	–	b	1	1	66	54	bc	bc	c.p.c.b	*
	Dover	1014·1	70	NNE	3	bc	1015·5	+2	69	+3	–	0	–	bm	2	–	77	56	b	b.bc	bc	12·0
	Wick	1017·7	53	SSE	1	bc	1014·4	-2	52	+2	SSE	3	–	c	3	–	56	49	bm	bm.bcm	bc.o.cm	*
	Nairn	1015·4	60	E	1	bz	1013·2	*	56	+2	–	0	–	cg	1	–	65	48	c	bcx.c)	bcw	12·6
	Aberdeen ...	1018·9	59	SSE	2	b	1015·7	-1	56	+7	SSE	2	–	o	1	–	63	49	m.bm.b	b.bc	bm.om	11·0
	Leith	1015·9	58	E	1	bc	1014·6	-1	52	+3	SE	1	–	f	2	–	59	48	f.om.c	c.bc.b	bcx.bf	*
	Tynemouth ...	1017·6	58	NE	1	bm	1016·0	-1	51	+3	–	0	–	f	2	–	61	47	f	bm	f	*
	Spurn Head ...	1017·2	57	ESE	4	bc	1016·5	0	?58	+3	ESE	1	–	b	3	–	63	52	bc	bc	b	9·4
	Yarmouth (Gorleston)	1015·1	63	ENE	2	b	1016·1	0	60	+1	ESE	1	–	bm	2	–	66	56	bm.b	b	bm	9·5
	Clacton-on-Sea	1014·7	65	E	3	b	1016·0	+1	66	+6	E	1	E	bc	1	–	70	56	c.bc	bc.bz	b.bcxw	9·2
	Nottingham ...	1014·7	70	E	1	b	1015·9	*	61	+4	SE	1	–	b	*	–	77	53	o.c.bc	bct.b	b.bc	6·4
	Benson (Oxon.) ...	1014·1	66	–	0	c	1015·4	+3	59	+3	–	0	–	bcm	*	1	76	52	bc.b	p.t l r	o.b.bc	*
	Sth Farnborough	1013·7	67	NNW	1	bc	1015·5	+1	61	+4	WSW	1	–	cm	*	1	79	52	o.b.cz	c.bcp.bc	bcpm.o.	5·6
	London (Kew Obsy.)	1014·0	76	SE	1	cx	1016·1	+2	62	+3	SW	2	S	bm	*	–	80	55	bm.cx	cx.bcx.cx	bmm.f	9·4
NORTHERN EUROPE.	Spitsbergen ...	1012·2	32	S	2	b	1006·0	-3	30	-6	–	0	*	S	*	*	37	27				
	Vardö	1022·6	41	W	2	o	1018·6	-2	45	+6	SE	3	–	p	2	*	43	37				
	Bodö	1024·0	52	W	2	b	1024·8	0	46	-8	WSW	1	–	f	2	–	57	45				
	Christiansund ...	1025·4	63	–	0	b	1022·6	-2	68	+7	–	0	–	b	2	–	66	55				
	Skudesnaes ..	1024·7	75	–	0	b	1022·6	0	68	+2	SE	2	–	b	2	–	73	57				
	Færder (X'ianiaFjord)	1023·4	70	WSW	1	b	1025·8	0	66	+3	E	1	SW	b	1	–	73	63				
	The Scaw (Skagen)	1024·3	70	–	0	b	1023·5	0	64	0	S	2	–	b	3	–	73	57				
	Blaavands Huk	1021·6	75	SE	3	b	1021·9	*	66	-2	ESE	3	–	b	*	–	80	50				
	Copenhagen ...	1023·8	68	SW	2	b	1024·2	0	61	+2	ENE	2	–	b	*	–	73	57				
	Bornholm ...	1023·4	55	E	3	b	1023·8	0	57	-2	ESE	3	–	b	0	–	63	52				
FRANCE, &c.	The Helder ...	1015·8	73	E	2	b	1017·0	+1	66	+2	ESE	2	–	b	0	–	80	66				
	C. Gris Nez ...	1014·2	62	NE	3	o	1015·9	+1	60	0	SSW	2	*	b	0	–	66	55				
	La Hève	1016·0	64	N	3	m	1017·6	*	54	0	W	3	*	f	1	–	66	54				
	Brest (St. Mathieu)	1017·1	61	NW	3	o	1019·4	+1	59	+1	SW	3	*	b	2	–	64	55				
	Rochefort (Ile d'Aix)	1016·2	66	WNW	5	c	1020·8	+3	63	0	NW	2	*	b	*	–	73	61				
	Biarritz	1017·4	71	NNW	3	c	1021·0	+2	65	+1	SSW	2	*	bc	3	–	72	59				
	Paris	1013·4	69	–	0	o	1017·0	+2	68	+4	W	1	–	c	*	1	72	59				
	Belfort	1015·0	66	ENE	4	c	1018·8	*	60	-1	S	2	*	f	*	–	77	58				
	Lyons	1015·5	63	–	0	o	1018·3	*	64	+2	–	0	*	o	*	30	77	59				
	Nice	1014·4	67	–	0	c	1015·1	+1	69	-1	S	1	*	c	0	–	79	61				
	Perpignan ...	1015·0	69	SW	2	o	1018·8	+3	70	-2	NW	3	–	b	*	Trace	82	64				
	Sanguinaire ...	1014·4	73	W	4	bc	1015·3	*	73		E	2	*	m	2	–	84	66				
SOUTHERN STATIONS.	Corunna	1020·3	64	NNW	4	c	1023·4	+2	63	-1	W	3	–	c	2	?	68	56				
	Madrid	1014·3	77	–	0	bc	1020·3	+3	66	+3	E	1	–	b	*	–	79	53				
	Lisbon	1019·6	72	WNW	3	b	1021·6	+1	63	+2	NW	2	–	b	*	–	73	59				
	Azores (Horta) ...	1017·1	*	SW	7	m	1015·6	-1	59	+4	–	0	*	r	1	6	68	59				
	Madeira	1022·8	64	NNE	3	o	1022·0	-2	61	0	N	2	–	o	2	?	68	61				
	Gibraltar	1019·6	66	NW	6	b	1018·9	*	63	-3	NW	4	*	b	3	–	77	62				
	Malta	*	*	*	*	*	1011·6	+1	72	-3	ENE	4	–	b	4	–	80	70				
	Limassol	*	*	*	*	*	1008·4	0	82	+12	–	0	–	b	2	–	84	55				
	Alexandria ...	1012·3	72	NNW	3	b	1012·3	0	72	-1	NNE	2	N	b	1	–	79	68				
	Cairo (Helwan) ...	1010·3	77	NW	3	b	1011·0	+1	70	0	N	2	–	b	*	–	88	64				

LONDON OBSERVATIONS.

	Humidity. 15 h. 12th %	Humidity. 9 h. 13th %	Sunshine for 12th Hours.	24 Hours ended 9 h. 13th. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	45	59	11·6	80	54	44	–	b c	c.b	b.bm
CITY (Bunhill Row)	*	*	9·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	40	62	9·7	79	58	52	–	b	b	b
CAMDEN SQ. (British Rainfall) ..	50	62	9·0	83	57	53	–	b	bc.b	*
HAMPSTEAD (Reservoir)	*	67	10.0	?77	57	44	–	bc	bc	b
S. KENSINGTON (Museum Grounds)	*	61	9·7	75	61	52	–	c.bc.b	b	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 12th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1760	29.6	70.5.

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

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,293 DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. THURSDAY 14TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON WEDNESDAY 13TH JUNE 1917.

Temperature again exceeded 75° in many parts of Britain, reaching 80° at Richmond (Kew Obs.) and 81° at South Farnborough. The night minima were high in England. Thunderstorms occurred in Scotland and the north and east of England, but the quantity of rain appears to have been slight. Bright sunshine was less abundant than of late except in the south-east.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR WEDNESDAY 13TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 12TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 13TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	12·0	-	-	68	50	c	o	0·2
	Banff	13·5	-	Tr	70	52	bc	bc. c. r	6·3
	Montrose	9·8	-	4	59	42	bc	o	1·2
	St. Andrews	8·8	-	1	66	51	of	otbr	0·8
	Carnoustie	*	*	*	61	53	c	c. r tbr	2·0
Eng. N.E.	Harrogate	9·3	-	Tr	75	52	b. bc	c. otbr	5·2
	Skegness	10·6	-	-	69	51	bc	b. ot	8·6
Eng. N.W.	Morecambe	10·7	-	-	69	61			7·4
	Southport	13·7	-	-	72	57	b. bc. c	c. o. c	6·0
Midlands.	Leamington Spa								
	Malvern	14·0	-	-	73	57	by	by	9·0
	Ross-on-Wye	12·1	-	-	74	52	bm	bc. c	7·0
Wales.	Rhyl	12·8	-	-	71	56	bc	bc. c	4·0
	Colwyn Bay	*	*	*	69	57	bc	bc.	5·6
	Llandudno	*	*	*	70	54	bc	c	7·2
	Aberystwyth	*	*	*	68	56	c. b	c. o	4·5

	STATIONS.	Sunshine for 12TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 13TH
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	9·1	-	-	69	55	bc. b	b. bc	12·1
	Felixstowe	10·0	-	-	72	55	bc	bc	11·0
	Walton-on-Naze	8·9	-	-	70	57	bcy. bc	bc. c	8·5
	Southend-on-Sea	9·8	-	-	83	58	b. bc	bc. c. o	8·0
England. S.E.	Margate	9·7	-	-	78	57	b	b. bc. c	9·3
	Hastings	13·6	-	-	72	58	b	b	11·9
	Eastbourne	13·2	-	-	68	58	b	b	11·9
	Seaford	13·8					bcm	f. b	5·0
	Brighton	14·4	-	-	65	58	cy. f	f. cv	4·4
	Worthing	14·0	-	-	68	56	bm	b	8·5
	Littlehampton								
	Bognor								
	Bournemouth	14·1			70	53	bc	b. bc	10·0
England. S.W.	Weymouth	*	*	*	68	52	bcy. b	by	8·5
	Torquay	13·3	-	-	68	57	c. bc. b	b. bc. c. o	8·4
	Paignton								
	Penzance	12·0	-	-	63	52	o. c	o	1·0
	Newquay	2·1	-	-	66	49	c	o	2·1
	Bude								
	Ilfracombe								
	Weston-s-Mare		-	-	71	56	bc. b	bc. c	6·0

REPORTS FROM FOREIGN STATIONS FOR 13TH JUNE

	STATIONS.	Evening of 12TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 13TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1023·1	+1	41		NNW	2	o	-	*	34
	Gorki	1015·8	63	-	o	b	1016·8	?	59	-4	E	3	b	-	*	52
	Velieki Luki	1018·3	57	WNW	3	b	1020·7	*	57	-6	NNW	2	b	-	*	46
	Hangö	1022·3	61	NW	2	b	1025·6	+3	55	-4	-	o	b	-	*	50
	Riga	1022·0	61	-	o	b	1024·0	+1	66	+5	-	o	b	-	*	55
	Petrograd	1022·0	59	NNE	2	b	1025·5	+3	55	-2	NE	3	o	-		50
	Moscow	1014·3	59	NNE	3		1016·8	+1	48	-16	NNW	4	o	-	*	45
	Kiev	1013·3	66	N	2	b	1012·6	-1	64	+5	NNW	2	b	-	*	57
	Kharkov	1011·7	64	SE	2	o	1009·7	-1	61	+2	NW	1	c	-	*	54
	Kishinev														*	
	Elisabetgrad	1012·6	61	ESE	2	o									*	
	Nicolaiev							*							*	
	Odessa	1012·3	59	N	3	o									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015·5	68	-	o	b	1015·5	*	66	-2	-	o	b	4	72	63
	Pesaro	1015·7	72	-	o	c	1015·8	*	70	o	-	o	bc	·14	77	64
	Rome	1014·6	72	N	1	o	1014·5	*	?		N	1	b	-	84	63
	Viesti	1015·5	73	-	o	bc	1015·4	*	71	-4	-	o	b	-	75	66
	Brindisi	1014·3	72	-	o	b	1013·4	*	66	-2	-	o	b	2	77	68
	Cagliari	1014·6	79	ESE	2	bc	1014·6	*	75	o	SE	2	b	-	81	59
	Palermo						1012·3	*	72	+1	-	o	o	·40	81	66
	Tripoli						1009·5	*	72	-1·6	W	3	b	1	?	?
	Algiers	1016·2	70	-	o	o	1018·4		70		SW	2	c	-	75	66
Sweden.	Hernösand	1025·8	64	-	o	b	1025·6	*	64	-2	SSE	2	b	*	*	*
	Stockholm	1024·4	72	S	2	b	1025·1	*	70	o	NNE	2	b	*	*	*
	Wisby	1024·6	59	N	2	b	1024·8	*	59	+4	NNW	2	b	*	*	*

Morning of 13TH

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather
		°F	°F			
Isafjord	1012·2	46	+1	-	o	c
Reykjavik	1009·2	50	-3	E	1	r
Vestmanna						
Seydisfjord	1012·6	52	-9	-	o	c
Thorshavn	1013·8	53	-1	NE	1	m

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

14TH & 15TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·31 / 3·31	11·53 / 11·53	8·14 / 8·15
Greenwich	3·44 / 3·44	12·0 / 12·0	8·16 / 8·16
Wick	3·7 / 3·7	12·12 / 12·12	9·17 / 9·17
Valencia	4·22 / 4·22	12·41 / 12·41	8·59 / 9·0

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

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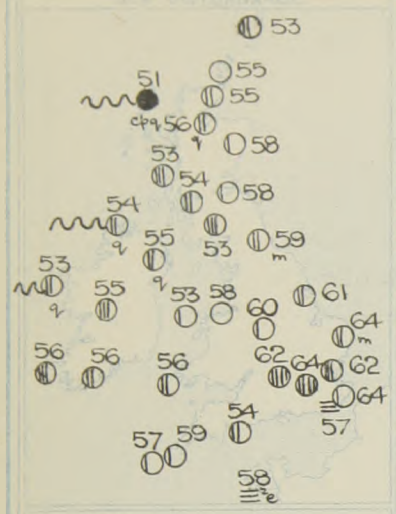
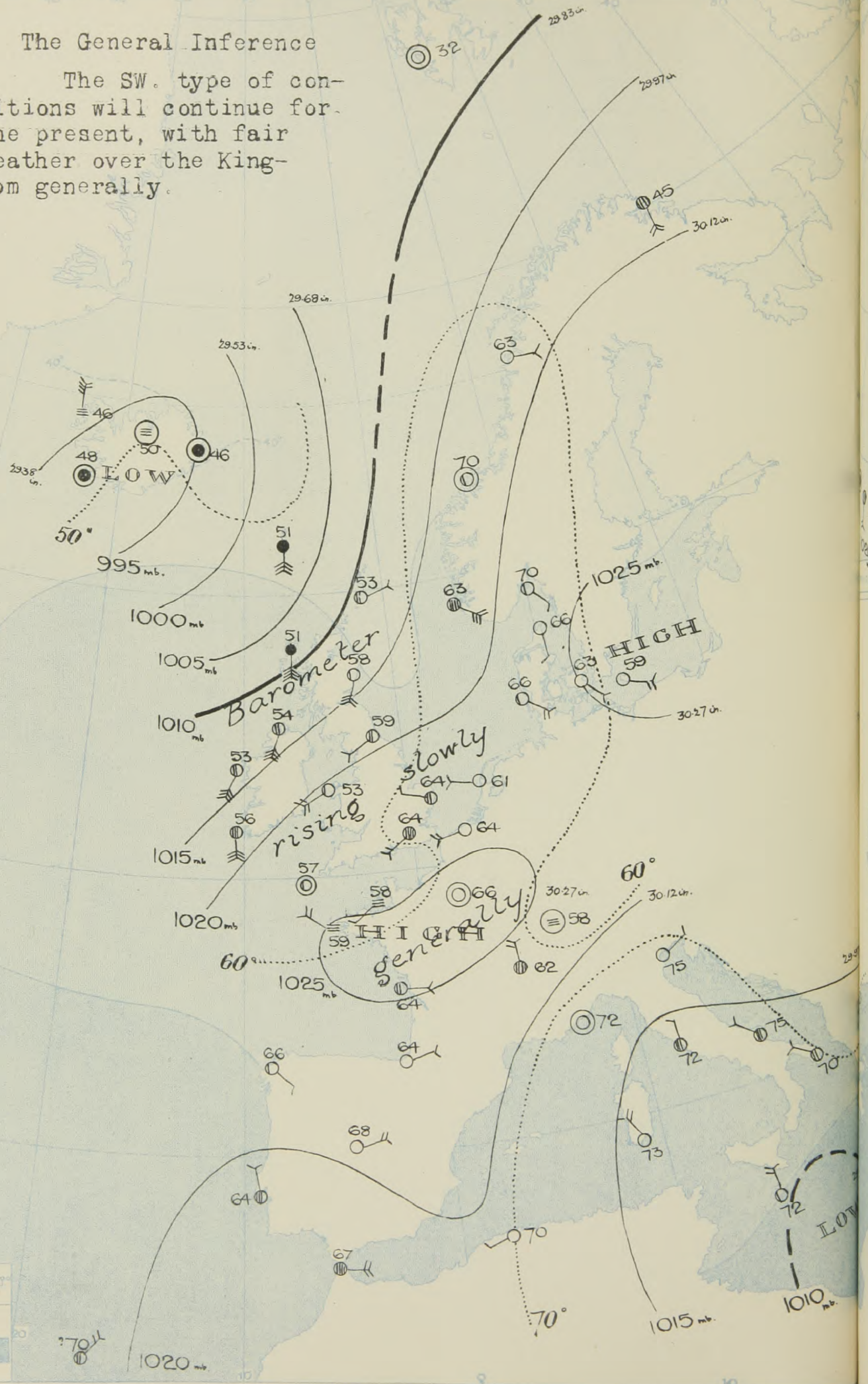
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Thursday, 14th JUNE, 1917.

The General Inference

The SW. type of conditions will continue for the present, with fair weather over the Kingdom generally.





EXPLANATION.

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

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

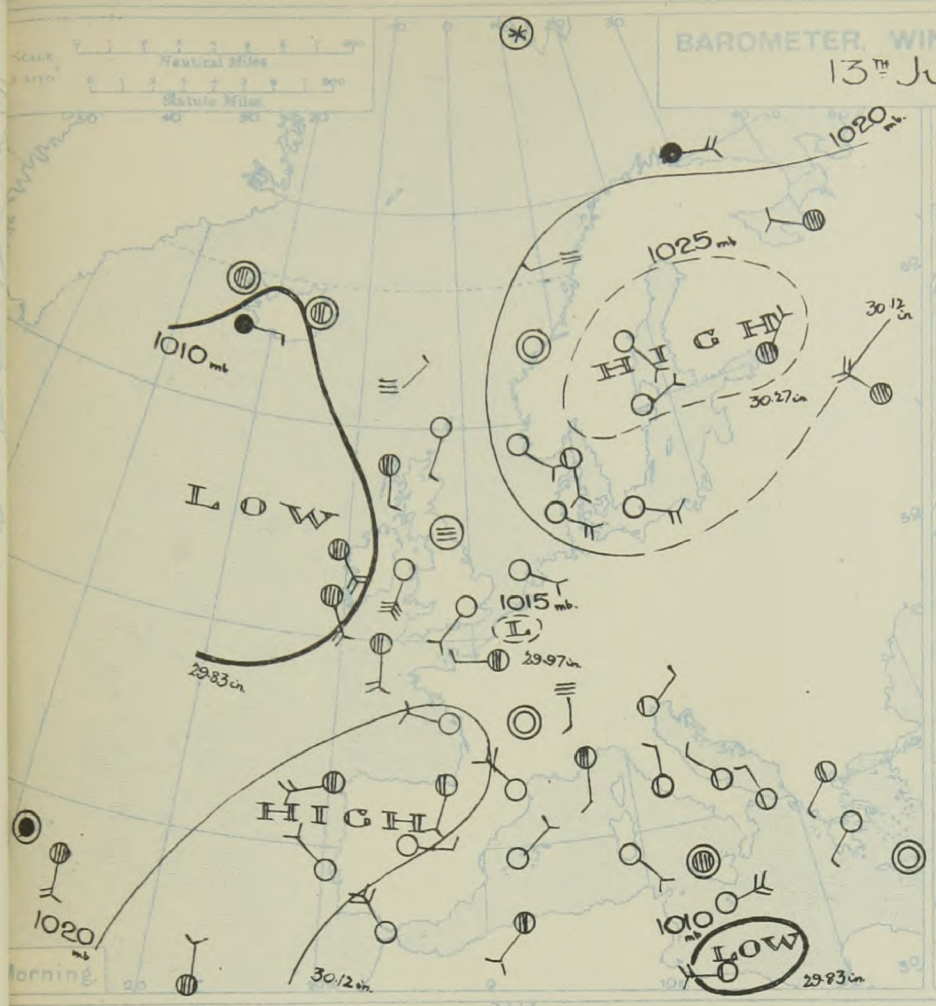
TEMPERATURE.—Given in degrees **Fahrenheit**.
Isotherms shown by dotted lines.

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

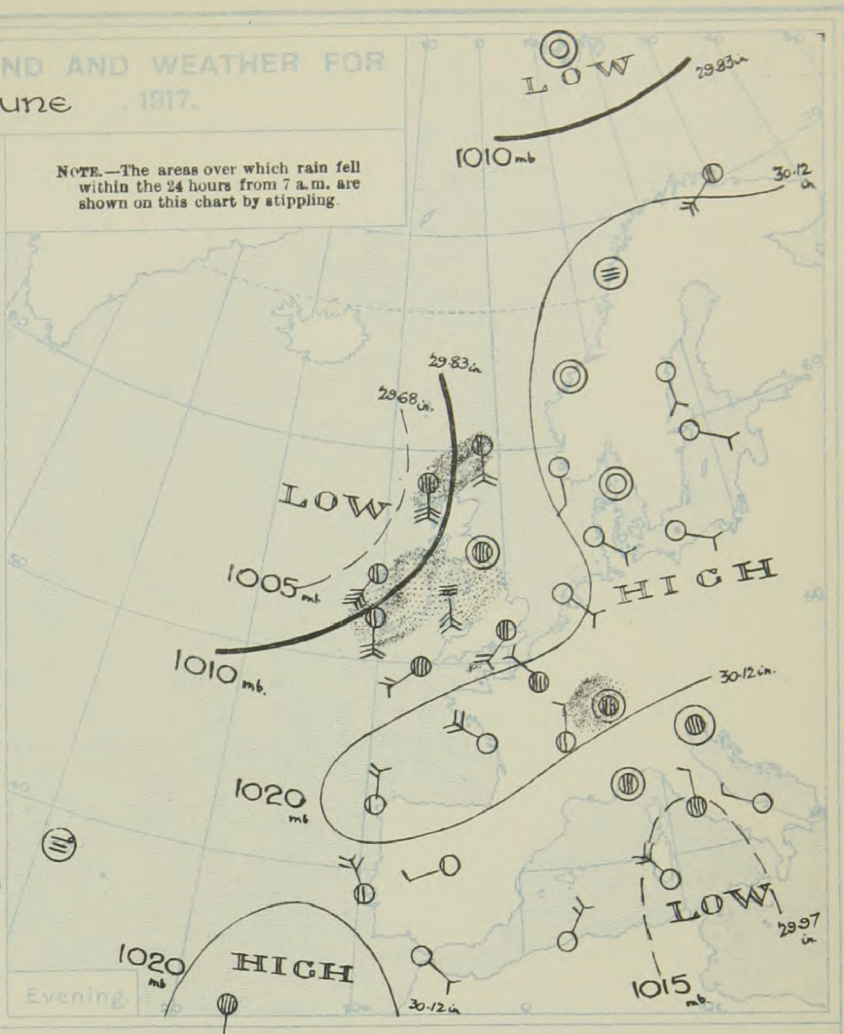
SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

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

BAROMETER, WIND AND WEATHER FOR 13TH June 1917.



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



Forecasts 18h. Thursday to 18h. Friday

0 a, b, 1 — S. and SW. winds, light or moderate; some local showers, but fair generally; moderate temperature.

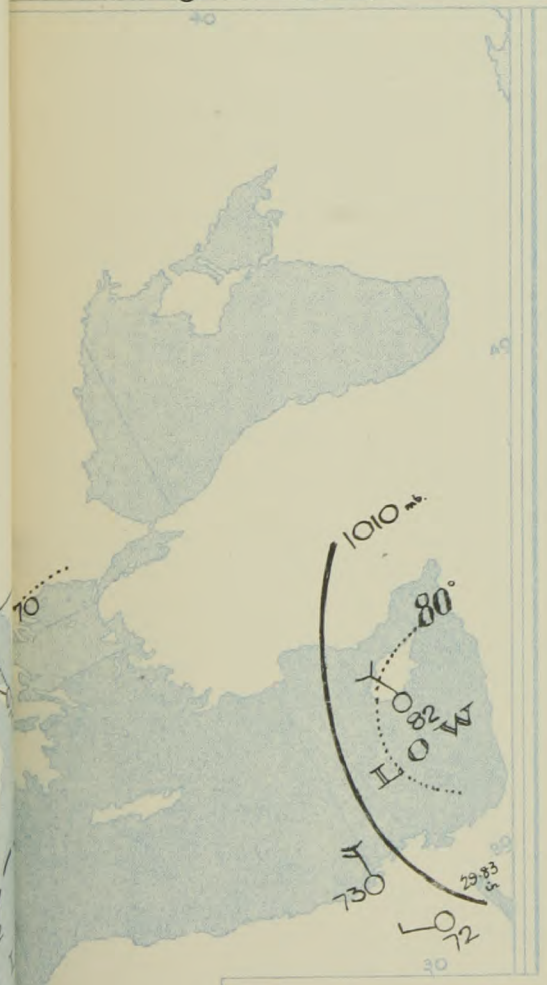
2 a, b, 3, 4 a, b, c, 5 — S. or SW. winds, light or moderate; fair generally; rather warm.

6 a, b — Same as Nos. 0 and 1

7 a, b, 8 a, b — SW. winds, moderate or light; fair generally, coastal fog or mist; moderate temperature.

9 a, b, 10 a, b — S. and SW. winds, moderate or fresh; fair generally, but showers locally; moderate temperature.

11 — Wind between SW. and SE, light; sea slight; some mist or fog, otherwise fair.



FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 165. Thursday, 14th JUNE.

	STATIONS.	EVENING OF 13th					MORNING OF 14th								24 HOURS ENDED 7 A.M.						Sunshine for 13th
		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 ...	1013·9	56	S	4	bcm	1010·5	0	53	−3	ENE	2	S	bc	2	1	61	50	bcz	bcm	op.bcm	*
	Deerness (Orkney)	1010·1	52	SE	5	or	1010·1	*	55	+2	S	5	–	b	4	2	57	50	bc	bc.or.bt	or.c.b	5·5
	Stornoway ...	1005·5	60	S	6	qq	1006·0	−1	51	−8	S	7	–	cpq	5	2	67	51	c.oz	opq	bc.cpq	3·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1011·6	62	S	4	omq	1017·0	+5	54	+2	SSW	4	W	bc	*	–	67	51	c.omu	om.c.ou	o.c.b.bc	3·8
	Eskdalemuir ...	1013·9	59	S	5	od	1015·9	+4	53	+9	SSW	4	–	c	*	0·1	68	49	bcz.c.o	o.od	o.od.o.c	6·9
	Malin Head ...	1006·7	60	SW	6	bcmq	1012·3	*	54	−4	SSW	6	SW	bcq	6	3	62	51	cmq	bcmqp	bcq	3·3
	Blacksod Point	1006·5	57	SSW	7	bc	1013·3	+5	53	−4	SSW	6	SW	bcq	6	3	60	49	cmqp	bcqp	bcqp	*
	Valencia (Cahirciveen)	1013·1	58	S	5	bc	1019·6	+2	56	−1	S	3	SW	c	4	4	61	54	or.cp	c.bc	bc.c	6·7
	Roche's Point	1015·1	58	SW	4	bc	1021·0	*	56	−1	SW	3	W	bc	3	2	62	51	or.om	om.c.bc	bc	*
	Birr Castle ...	1010·8	63	S	2	c	1019·4	*	55	−3	S	2	S	c	*	0·4	68	48	o.c	cp	c	3·9
	Donaghadee ...	1009·6	57	SSW	5	omq	1017·4	+3	55	−2	WSW	4	SW	bcqz	3	1	62	51	omq	cmq	bcmp	*
	Liverpool (Bidston)	1015·6	67	SSW	3	c	1022·0	+2	58	−1	SSW	2	–	b	1	–	73	52	b.bc	c.bc	o.b	6·1
	Holyhead ...	1014·7	57	S	5	fe	1020·8	+2	53	−2	SW	4	–	b	3	1	64	51	c.bc.c	c.opdf	fe.b.bc	3·8
	Pembroke (St. Ann's)	1016·6	57	SSW	4	c	1022·5	+3	56	−1	SW	2	W	bc	3	0·3	58	52	bc.c	cpd	c.bc	1·9
	Scilly (St. Mary's)	1015·1	60	SW	3	om	1023·6	+1	57	−1	–	0	W	b	3	0·1	64	53	om	om	bc.b	1·0
	Falmouth ...	1013·5	61	SW	4	o	1023·7	+2	59	0	WSW	1	–	b	*	Trace	64	49	c.o	o	od.bc.b	1·9
	Jersey (St. Aubin)	1021·1	65	SW	3	b	1024·9	*	58	0	SW	1	–	fe	0	–	69	57	b.o.b	b	c.ofe	1·9
	Portland Bill ...	1019·5	57	WSW	2	c	1022·9	+3	54	−1	WSW	2	–	bc	3	0·3	57	52	f.bc	bc.c	cfr.bc	*
	Dungeness ...	1017·4	58	SW	5	bc	1022·7	+3	57	−1	SW	3	–	f	2	–	65	55	bm	bcm	bcmj	
	Dover	1018·6	63	SE	2	b	1023·7	+3	64	−5	W	2	W	b	2	–	73	56	bc	bz	b	10·7
	Wick	1009·6	52	SE	3	omp	1011·0	+1	55	+3	SW	4	–	bc	3	2	58	51	cm	otl.op	o.c.bcm	*
	Nairn	1008·1	69	S	2	cz	1011·4	*	56	0	SSW	3	–	bcq	2	–	72	49	bcz	cz	c.bc	1·5
	Aberdeen ...	1012·5	56	SSW	1	opq	1014·4	+2	58	+2	SSW	5	–	b	2	0·4	63	53	om.bc	bc.opt	op.bc	4·2
	Leith	1011·6	65	SW	1	c	1016·8	+2	58	+6	W	2	W	b	2	–	67	51	f.o.c.bc	c.ogp.e	cque.b	*
	Tynemouth ...	1014·2	66	–	0	om	1019·3	+3	59	+8	SW	2	W	bcm	2	5	66	50	bcm	om.clr	bcm	
	Spurn Head ...	1016·2	65	SE	4	clr	1022·2	+2	61	+3	W	3	–	bc	3	4	67	57	bc	c.tlrq	bclt	9·3
	Yarmouth (Gorleston)	1016·8	62	SSE	3	bc	1022·4	+3	64	+4	WNW	1	–	bcm	2	–	64	57	bm	bcm	om.bcm	13·7
	Clacton-on-Sea	1017·3	66	SSE	2	o	1023·5	+3	62	−4	W	2	NW	c	2	–	72	57	bcz	bc.ctz	o.cz	9·3
	Nottingham ...	1016·4	70	SW	3	c	1022·3	*	60	−1	W	3	W	b	*	–	79	57	b.bc	c	c.bc	8·2
	Benson (Oxon.) ...	1017·6	71	SW	3	bc	1022·7	+4	62	+3	W	1	–	o	*	0·3	79	59	b	bc	b.opc	
	Sth Farnborough	1018·9	72	WSW	3	c	1022·9	+3	64	+3	WSW	3	W	o	*	–	81	59	c.b.bc	bc.b.cv	c.bc.bo	10·3
	London (Kew Obsy.)	1018·4	73	SW	3	cv	1023·6	+3	64	+2	SW	3	–	o	*	–	80	60	bm.bz.c	c.bc	cv.bc.o	9·4
NORTHERN EUROPE.	Spitsbergen ...	1005·0	32	–	0	b	1005·7	+3	32	+2	–	0	*	b	*	*	36	25				
	Vardö	1018·5	45	SW	4	bc	1018·4	0	45	0	S	4	–	o	3	*	45	37				
	Bodö	1023·6	48	–	0	f	1019·0	−3	63	+17	E	2	–	b	2	–	68	45				
	Christiansund ...	1021·6	68	–	0	b	1017·0	−1	70	+2	–	0	–	b	1	–	72	63				
	Skudesnaes ..	1020·7	68	S	1	b	1017·8	−1	63	−5	SE	5	–	o	3	–	70	57				
	Færder (X'tania Fjord)	1023·6	68	SE	1	b	1023·9	0	70	+4	SSE	1	–	b	0	–	68	63				
	The Scaw (Skagen)	1024·2	68	–	0	b	1023·9	0	66	+2	S	1	–	b	*	–	70	66				
	Blaavands Huk	1021·2	73	SSE	2	b	1022·0	*	66	0	SE	3	–	b	*	–	79	54				
	Copenhagen ...	1022·6	70	S	2	b	1025·2	0	63	+2	SE	2	–	b	*	–	73	57				
	Bornholm ...	1023·6	59	ESE	2	b	1025·9	+2	59	+2	ESE	3	–	b	0	–	61	50				
FRANCE, &c.	The Helder ...	1017·6	79	SE	2	b	1021·4	+3	61	−5	W	2	–	b	0	–	79	61				
	C. Gris Nez ...	1019·6	58	S	5	c	1024·0	+3	57	−3	SSW	3	*	f	2	–	61	54				
	La Hève	1020·7	63	NW	3	b	1024·0	*	59	+5	WNW	1	*	m	1	–	64	52				
	Brest (St. Mathieu)	1022·2	62	SSW	4	o	1025·1	+2	59	0	NW	3	*	f	3	–	66	55				
	Rochefort (Ile d'Aix)	1023·8	67	WNW	3	b	1025·2	+2	64	+1	E	2	*	bc	2	–	73	59				
	Biarritz	1023·0	70	NNE	2	b	1025·0	+1	64	−1	ENE	2	*	b	2	–	73	57				
	Paris	1021·1	68	WNW	2	o	1025·6	+2	66	−2	–	0		bc	*	–	73	54				
	Belfort	1020·8	63	–	0	o	1024·6	*	58	−2	?	?	*	f	*	6	74	57				
	Lyons	1019·4	71	N	1	bc	1023·1	*	62	−2	NNW	3	*	o	*	–	74	61				
	Nice	1018·6	63	–	0	c	1016·0	+1	73	+4	–	0	*	b	0	–	75	57				
	Perpignan ...												*		*							
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1023·9	66	N	3	b	1023·5	0	63	0	SE	1	NW	b	1	–	68	55				
	Madrid	1017·4	80	WSW	1	b	1021·2	+2	68	+2	ENE	3	–	b	*	–	82	61				
	Lisbon	1019·4	70	NW	4	b	1018·7	0	64	+1	NNW	2	–	c	*	–	77	63				
	Azores (Horta) ...	1014·3	*	–	0	m							*									
	Madeira	1021·4	68	S	2	o	1021·1	0	70	+9	NE	3	W	bc	3	–	70	61				
	Gibraltar	1019·6	68	SE	2	b	1018·5	*	67	+4	E	4	*	b	3	–	78	62				
	Malta	*	*	*	*	*	1010·7	0	72	0	N	3	–	b	3	–	73	70				
	Limassol	*	*	*	*	*	1007·9	0	82	0	NNW	2	–	b	2	–	90	59				
	Alexandria ...	1011·9	72	N	2	b	1012·3	+1	73	+1	N	3	–	b	2	–	79	70				
	Cairo (Helwan) ...	1009·9	80	N	3	b	1011·0	+1	72	+2	NW	1	–	b	*	–	88	66				

GALES.
Duration and Extreme Force in British Islands.

Blacksod Point

S-SSW, 8, 13rh; 12h – 14h.

NOTE

SOLAR HALO of 22°

was observed at SOUTH FARNBOROUGH, 4 3m (Afternoon).

LONDON OBSERVATIONS.	Humidity. 15 h. 13th	Humidity. 9 h. 14th	Sunshine for 13th	24 Hours ended 9 h. 14th. Temperatures. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	48	77	10.3	85	58	47	–	b	b,c	c.o
CITY (Bunhill Row)	*	*	6·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	46	75		80	60	56	–	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	44	73	8·3	84	60	57	–	b	b,c	*
HAMPSTEAD (Reservoir)	*	82	10·2	78	57	47	–	b	bc	bc
S. KENSINGTON (Museum Grounds)	*	73	8·8	81	61	55	–	b	bc.c	c.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 13rh..

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1885	31·7	72·5

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

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

Issue No. 20,294 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { FRIDAY 15 JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON THURSDAY 14 JUNE 1917.

Temperature rose to 79° at Southend-on-Sea, 78° at Richmond (Kew Observatory) and to above 75° in many places. Heavy rain (32 mm) fell at Blacksod Point, and smaller quantities at some other extreme Western Stations, but generally the weather was dry and the sunshine records were high in most districts.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR THURSDAY 14 JUNE UP TO 17 H.

	STATIONS.	Sunshine for 13TH	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 14TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0·2	4	–	68	52	c	bc	8·7
	Banff	6·3	–	–	67	53	c.bc	bc.c	8·5
	Montrose	1·2	–	–	64	50	b	b	11·5
	St. Andrews	0·8	–	–	67	52	b	b	10·7
	Cornoussie	*	*	*	67	58	b	b	12·3
Eng. N.E.	Harrogate	5·7	–	–	68	50	b	b	11·7
	Skegness	8·6	Trace	–	70	54	bc	bc	9·0
Eng. N.W.	Morecambe	7·6	1	–	65	55			11·4
	Southport	6·5	Trace	–	65	52	bc.b	b	12·0
Midlands.	Leamington Spa								
	Malvern	9·4	–	–	71	54	bc. b	b	11·0
	Ross-on-Wye	7·6	–	–	73	53	b	b	12·0
Wales.	Rhyl	4·0	–	–	68	52	c.bc	b	12·0
	Colwyn Bay	*	*	*	68	53	bc	b	11·2
	Llandudno	*	*	*	66	54	b	b	12·1
	Aberystwyth	*	*	*	67	54	o.c.b	b.bc	11·5
England. E.	Lowestoft	12·1	–	–	71	58	bc .c	c.bc	8·5
	Felixstowe	11·0	–	–	71	57	bc.	bc.b	11·4
	Walton-on-Naze								
	Southend-on-Sea	8·0	–	–	79	57	o.c.bc	bc	7·5
England, S.E.	Margate	9·3	–	–	72	57	bc	bc	5·5
	Hastings	12·1	–	–	65	56	bc.b	bc.b	6·4
	Eastbourne	12·4	–	–	66	56	b	b	5·5
	Seaford	5·5	–	–	63	55	f	f	0·4
	Brighton	5·1	–	–	63	57	f	c.f	3·5
	Worthing	9·6	–	–	67	58	o.b	b	7·0
	Littlehampton		–	–	66	55			8·1
	Bognor								
	Bournemouth	10·2	Trace	–	70	58	b	b	12·0
England, S.W.	Weymouth	*	*	*	69	56	b.f	bc.f	11·0
	Torquay	8·4	Trace	–	70	56	bc .b	b	12·2
	Paignton								
	Penzance	10	–	–	65	51	bc	b	12·0
	Newquay	2·1	1	–	63	50	b	b	11·7
	Bude		1	–	64	50	b	b	10·5
	Ilfracombe		Trace	–	66	54	b.f	b	5·6
	Weston-s-Mare	6·5	2	–	67	51	b. bc	b	10·0

REPORTS FROM FOREIGN STATIONS FOR THURSDAY 14 JUNE

	STATIONS.	Evening of 13: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 14: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Gorki														*	
	Velieki Luki						1025·3	*	54	−3	SSW	1	b	–	*	45
	Hangö														*	
	Riga	1024·3	59	–	0	b	1027·1	+1	68	+2	E	1	b	–	*	54
	Petrograd	1025·0	59	–	0	b										
	Moscow	1019·4	52	NE	1	b	1020·8	+1	52	+4	NNE	2	b	–	*	43
	Kiev	1014·1	61	N	2	c	1018·0	+4	54	−10	NE	3	c	2	*	54
	Kharkov	1011·4	59	NNE	1	o									*	
	Kishinev	1019·3	61	–	0	o	1012·6	+1	61		NW	3	o	6	*	54
	Elisabetgrad	1012·0	63	NW	3	b	1021·7	+2	59		ENE	3	o	2	*	54
	Nicolaiev	1011·7	64	W	2	bc	1012·1	*	61		NNE	2	b	–	*	55
	Odessa	1013·0	63	NW	2	o	1012·8	+1			NE	3	o	1	*	59
	Tarkhankout	1014·7	55	–	0	bc		*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015·1	73	–	0	o	1017·0	*	75	+9	NE	1	b	–	77	68
	Pesaro	1015·3	70	–	0	b	1016·1	*	72	−2	NW	1	c	–	79	61
	Rome	1014·6	70	N	1	o	1013·7	*	72		N	1	c	Trace	86	66
	Viesti	1015·5	72	WNW	1	b	1014·6	*	75	+4	NW	2	c	–	79	68
	Brindisi						1012·9	*	70	+4	NW	2	bc	–	72	68
	Cagliari	1014·6	79	NW	4	bc	1013·3	*	73	−2	NW	3	b	–	81	57
	Palermo						1012·5	*	77	+5	–	0	bc	3	84	66
	Tripoli						1013·4	*	70	+2	NW	2	o	–	99	66
	Algiers	1019·8	70	NNE	3	b	1019·9	0	70	0	WSW	1	b	–	77	64
Sweden.	Hernösand	1023·0	64	S	2	b	1022·0	*	66	+2	–	0	b	*	*	*
	Stockholm	1024·0	72	SE	2	b	1025·6	*	72	+2	SSW	2	b	*	*	*
	Wisby	1024·2	63	W	2	b	?	*	61	+2	WNW	2	b	*	*	*

Morning of 14

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	997·6	46	0	N	7	f
Reykjavik	993·4	48	−2	–	0	r
Vestmanna						
Seydisfjord	995·0	46	−6	–	0	r
Thorshavn	1002·3	51	−2	–	0	r

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

15-16 JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·31	11·53	8·15
	3·31	11·53	8·15
Greenwich	3·44	12·0	8·16
	3·44	12·0	8·16
Wick	3·7	12·12	9·17
	3·7	12·12	9·18
Valencia	4·22	12·41	9·0
	4·22	12·41	9·0

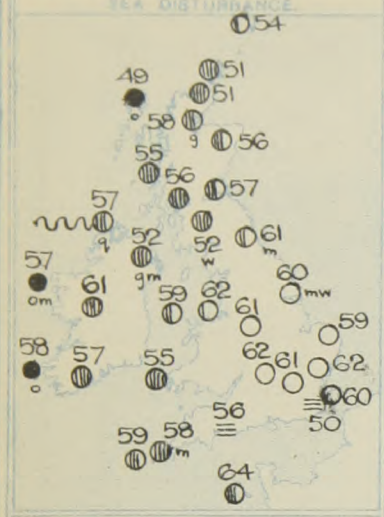
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain;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

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

‡ The barometric change is expressed in half-millibars.

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

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

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

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

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

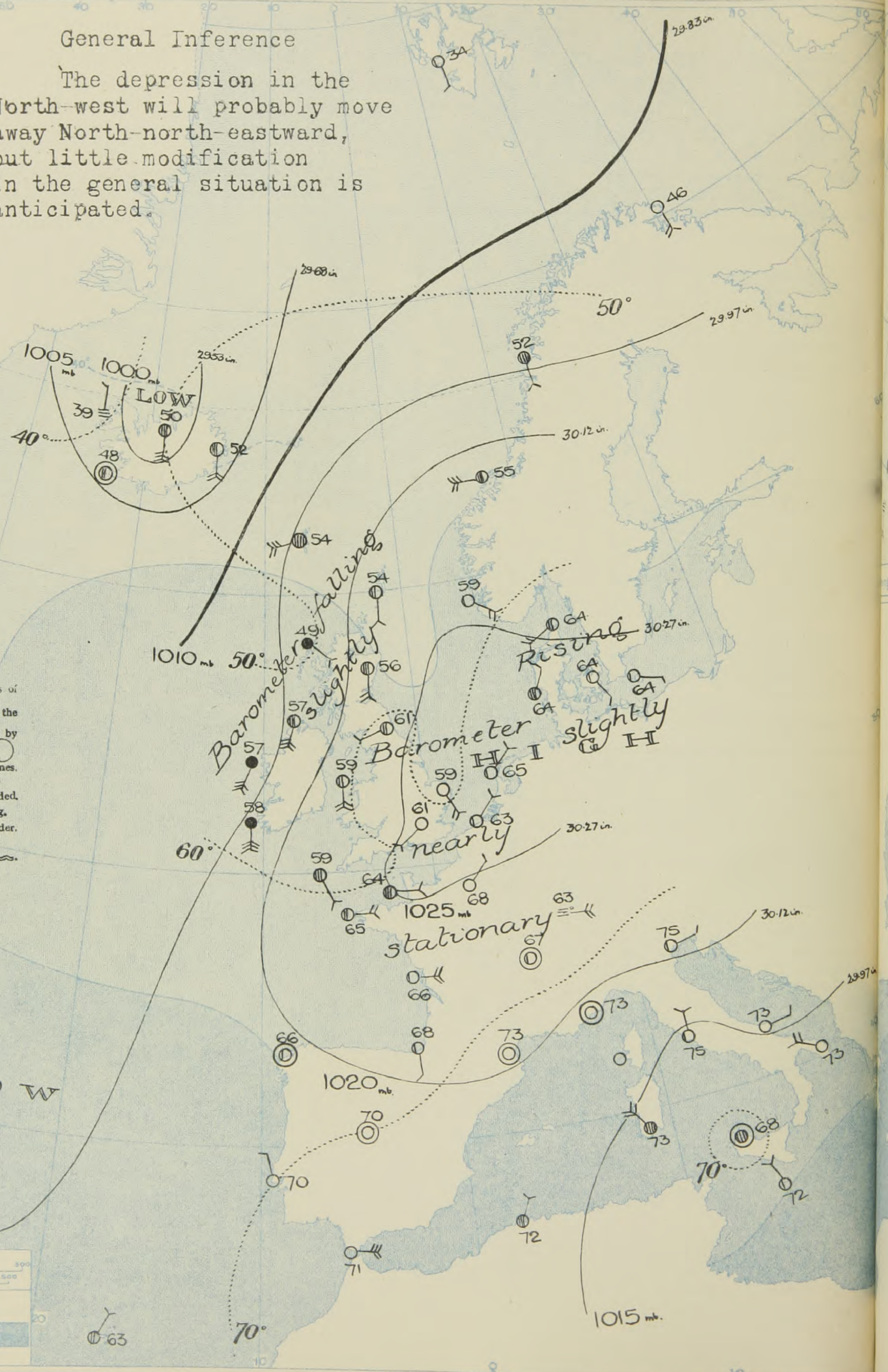
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◑ sky ¼ clouded. ◍ sky ¾ clouded. ◉ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

THE MORNING OF FRIDAY, 15TH JUNE, 1917.

General Inference

The depression in the North-west will probably move away North-north-eastward, but little modification in the general situation is anticipated.



Scale 1 : 2 : 10°
Nautical Miles 0 1 2 3 4 300
Statute Miles 0 1 2 3 4 500

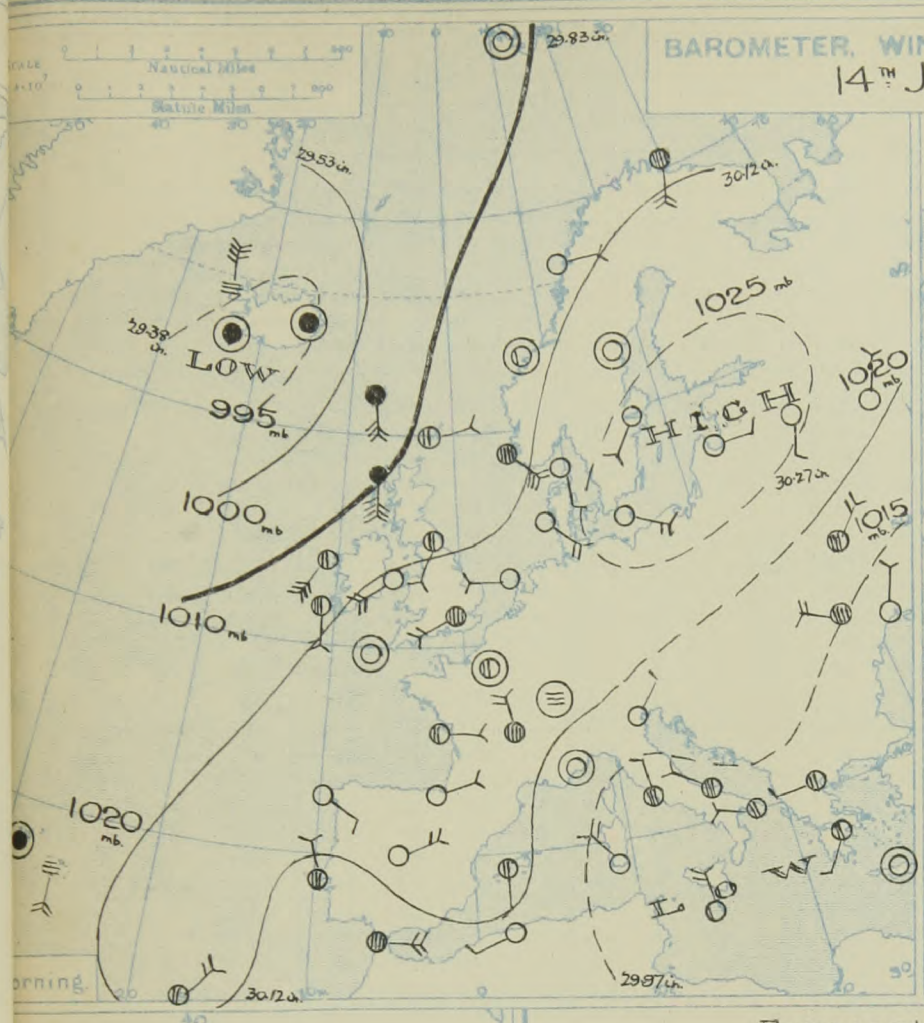
Normal Temperature of the Sea

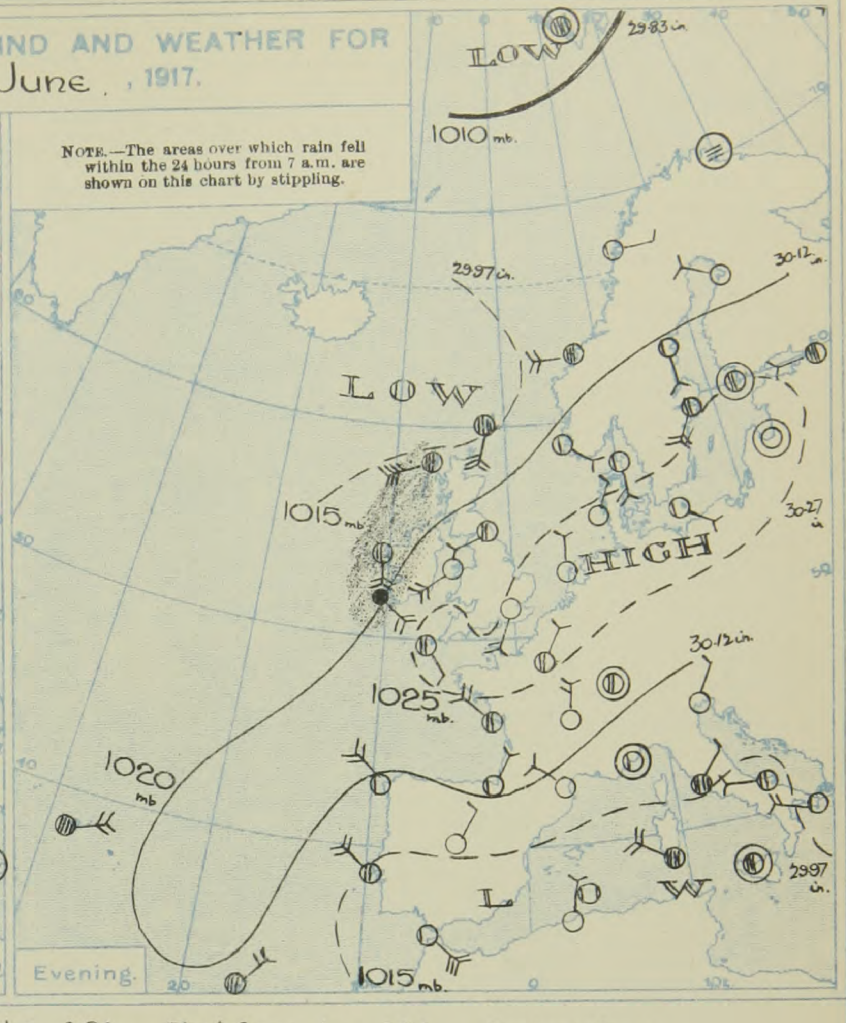
Below 50° | 50°-60° | 60°-70° | Above 70°

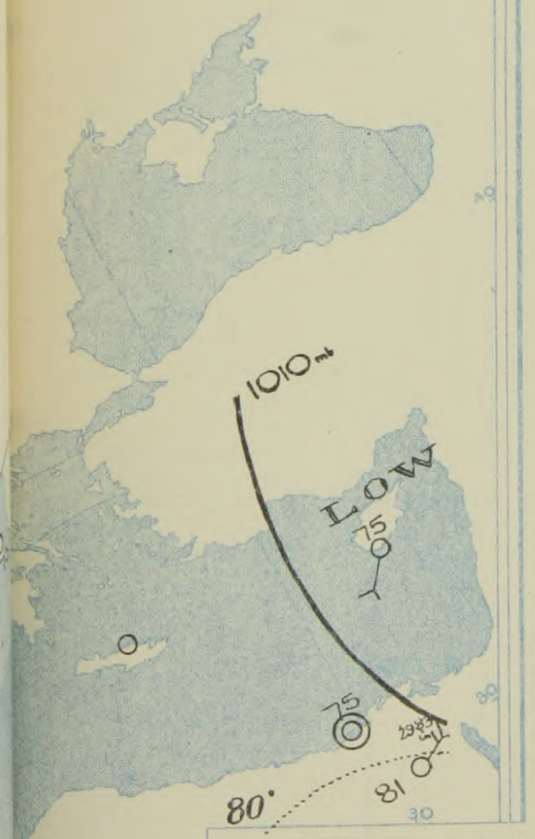
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 14th June , 1917.

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







Forecasts 18h. Friday to 18h. Saturday

0 a, b, 1 — S. winds, moderate or light; variable sky, some local showers; moderate temperature.

2 a, b, 3, 4 a, b, c, 5 — Wind variable or S. light; fair, sea fog locally; temperature high.

6 a, b — S. and SW. winds, moderate; variable sky, some showers; moderate temperature.

7 a, b, 8 a, b — Wind mainly S. light; fair generally; sea fog locally; moderate temperature.

9 a, b, 10 a, b — Same as No. 6

11 — SE. and S. winds, light; sea smooth or slight; fair.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 166. Friday, 15th JUNE.

	STATIONS.	EVENING OF 14th					MORNING OF 15th									24 HOURS ENDED 7 A.M.					Sunshine for 14h
		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 ...	1014·9	55	SSW	5	omq	1021·5	+1	54	+1	S	2	S	bc	2	–	60	50	bcm.o	om	bc	*
	Deerness (Orkney)	1016·9	56	W	5	bc	1020·6	*	51	-4	SE	3	-	o	2	–	60	48	b.bc.c.o	o.c.bc	bc.c.o	7·0
	Stornoway ...	1016·6	57	WSW	7	cq	1017·4	-3	49	-2	SE	2	–	or	2	8	58	48	orq	or.cq	bq.or	2·9
	Castlebay (Barra Isd.)																					
	Glasgow ...	1021·9	61	SW	4	bcz	1022·3	-1	56	+2	SE	1	SW	o	*	–	62	52	bcrq	bcrq	bcrco	13·0
	Eskdalemuir ...	1023·5	57	S	5	c	1024·6	0	52	-1	–	0	–	ow	*	–	61	41	c.bc	bc.c	c.bc	11·6
	Malin Head ...	1020·4	56	W	3	bc	1015·2	*	57	+3	SSW	5	SW	cq	5	3	60	53	bcq	bcq	cq	11·0
	Blacksod Point	1019·4	56	S	4	bcz	1011·4	0	57	+4	SSW	5	o–	oinr	4	32	60	51	bcz	bcz	omr.or	*
	Valencia (Cahirciveen)	1019·8	57	SE	4	od	1015·6	-1	58	+2	S	6	c–	or	4	8	61	56	c.o	od	ro.or	3·6
	Roche's Point	1023·4	55	SSE	3	o	1019·8	*	57	+1	S	4	–	o	4	–	62	56	bc.c	bc.c.o	om	*
	Birr Castle ...	1021·0	63	S	2	o	1017·6	*	61	+6	SE	3	–	o	*	–	65	48	c	c.o	o	8·2
	Donaghadee ...	1021·4	60	SSW	4	cm	1020·3	+1	52	-3	SSE	3	–	ogm	3	–	63	52	bcm	bcm	cm.ogm	*
	Liverpool (Bidston)	1024·8	63	WNW	1	b	1023·5	o	62	+4	ESE	1	–	b	1	–	66	55	b	b	b	14·3
	Holyhead ...	1024·0	59	SW	4	b	1022·7	-1	59	+6	S	4	–	bc	3	–	61	53	b.bc.b	b.bc.b	bc.c.bc	13·8
	Pembroke (St. Ann's)	1025·4	59	SSE	1	bc	1023·8	o	55	-1	SSE	3	–	o	3	0·2	60	51	bc	bc	bc.c	14·6
	Scilly (St. Mary's)	1025·2	62	SSE	1	bc	1023·2	-1	59	+2	SSE	2	S	c	4	–	65	57	bc	bc	bc.c	14·2
	Falmouth ...	1025·6	62	SSE	1	b	1024·0	o	58	-1	SSE	2	–	om	*	–	65	54	b.bc	bc.b	b.bc.om	14·1
	Jersey (St. Aubin)	1026·0	65	SSE	2	b	1024·7	*	64	+6	E	2	–	c	1	–	64	57	fc.bc.b	b	c	9·2
	Portland Bill ...	1025·3	58	W	1	b	1025·1	o	56	+2	NW	1	–	f	2	–	59	54	b.bc	b.bc	cf	*
	Dungeness ...	1024·7	59	SW	3	b	1025·5	o	50	-7	–	o	–	f	1	–	64	49	fb	fb	b.bf	*
	Dover	1024·9	60	SE	3	b	1025·9	o	60	-4	S	1	–	b	4	–	73	48	bc	b	bf	13·3
	Wick	1018·5	60	WSW	4	o	1020·5	-1	51	-4	S	1	–	o	2	–	62	48	bc.omq	omq	o.bc.om	*
	Nairn	1019·0	62	WSW	6	bcq	1019·5	*	58	+2	S	2	–	cg	2	–	69	50	bcq	bq	bc	12·4
	Aberdeen ...	1019·9	66	SW	4	bc	1022·7	-1	56	+2	S	3	SW	c	2	–	70	54	bq	bq.bc	bc.c	12·9
	Leith	1020·8	66	W	1	c	1022·3	o	57	-1	E	2	SE	c	1	–	67	54	b.bc.b	b	c.bcz.c	*
	Tynemouth ...	1023·4	66	WSW	2	bc	1024·8	o	61	+2	WSW	1	W	bcm	2	–	67	51	bc	bc	bcm	*
	Spurn Head ...	1024·8	62	SSE	4	bc	1026·1	o	60	-1	S	1	–	bm	2	–	62	53	bc	bc	bm.bmw	10·1
	Yarmouth (Gorleston)	1025·4	60	SSE	3	bc	1026·4	+1	59	-5	SSE	3	–	b	3	–	71	56	bcm	bcm	bcm	5·3
	Clacton-on-Sea	1024·9	64	SE	3	b	1025·7	o	62	o	SSE	2	–	b	2	–	71	58	c.bcz	bc.bz	bc.bcw	11·8
	Nottingham ...	1024·4	70	W	1	b	1024·7	*	61	+1	E	1	–	b	*	–	74	48	b	b	b	13·3
	Benson (Oxon.) ...	1024·1	73	NW	2	b	1024·5	+1	62	o	–	o	–	b	*	–	76	45	bc	b	b	*
	Sth Farnborough	1024·3	71	SW	3	bc	1024·7	o	63	-1	SW	2	–	bw	*	–	77	51	c.bc	bc.b.bc	bc.bw	10·1
	London (Kew Obsy.)	1024·8	76	SSW	3	bz	1025·4	o	61	-3	SW	2	–	b	*	–	78	52	o.c.b.bcz	bc.b.bw	bz.b	11·0
NORTHERN EUROPE.	Spitsbergen ...	1009·8	34	–	o	o	1007·6	-1	34	+2	S	1	*	b	*	*	37	30				
	Vardö	1019·0	43	–	o	f	1011·5	-4	46	+1	S	?3	–	b	3	*	48	41				
	Bodö	1011·5	68	E	1	b	1014·7	o	52	-11	S	2	–	o	2	–	72	50				
	Christiansund ...	1016·4	59	W	4	c	1021·6	+2	55	-15	W	5	–	c	3	–	75	54				
	Skudesnaes ...	1023·0	57	SE	2	b	1026·2	+2	59	-4	SE	3	–	b	2	Trace	63	52				
	Færder (X'laniaFjord)																					
	The Scaw (Skagen)	1023·6	64	S	3	b	1024·4	+2	64	-2	SW	3	–	bc	3	–	68	55				
	Blaavands Huk	1025·6	66	NNE	1	b	1028·0	*	64	-2	NNE	1	–	c	*	–	73	55				
	Copenhagen ...	1025·5	68	SSE	2	b	1027·1	+1	64	+1	SSE	1	–	b	*	–	72	59				
	Bornholm ...	1026·2	63	SE	2	b	1027·1	+1	64	+5	ESE	1	–	b	9	–	64	55				
FRANCE, &c.	The Helder ...	1025·5	66	N	2	b	1026·2	+1	65	+4	NE	2	SE	b	1	–	68	59				
	C. Gris Nez ...	1025·9	59	S	2	f	1026·3	+1	59	+2	SW	1	*	f	0	1	63	52				
	La Hève	1026·6	60	NNE	1	b	1026·3	*	?	—	–	0	*	bc	1	–	72	61				
	Brest (St. Mathieu)	1026·7	67	SSW	1	b	1023·8	+1	65	+6	E	3	*	bc	5	–	72	57				
	Rochefort (Ile d'Aix)	1023·9	69	NW	3	bc	1021·6	-1	66	+2	E	4	*	b	*	–	77	61				
	Biarritz	1021·8	71	NNE	3	b	1020·3	0	68	+4	S	1	*	b	2	–	72	61				
	Paris	1025·0	72	NNE	2	b	1024·6	o	68	+2	NE	1	–	b	*	–	77	57				
	Belfort	1023·0	71	–	o	bc	1024·0	*	63	+5	E	4	*	m	*	–	77	57				
	Lyons	1021·0	72	N	3	b	1021·6	*	67	+5	–	o	*	b	*	–	74	60				
	Nice												*									
	Perpignan ...	1018·8	77	NW	2	b	1020·2	+1	73	—	—	o	–	b	*	–	82	61				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1019·8	72	NW	4	b	1018·9	+1	66	+3	—	o	SW	b	1	–	75	59				
	Madrid	1015·9	84	NNE	1	b	1019·1	+1	70	+2	–	o	–	b	*	–	86	61				
	Lisbon	1014·7	79	WNW	4	bc	1016·0	+1	70	+6	NNW	1	–	b	*	–	88	64				
	Azores (Horta) ...	1017·5	*	ENE	4	o	1016·2	+1	58	+1	NNE	6	*	r	3	1	68	57				
	Madeira	1019·9	68	NE	3	c	1019·4	o	63	-7	NNE	2	–	bc	2	–	90	63				
	Gibraltar	1017·3	70*	SE	5	b	1017·3	*	71	+4	E	5	*	b	4	–	79	67				
	Malta	*	*	*	*	*	1011·9	+1	72	-10	NNW	2	–	b	2	–	75	68				
	Limassol	*	*	*	*	*	1009·6	+3	75	-7	SW	2	–	b	0	–	84	52				
	Alexandria ...	1012·2	73	–	o	b	1011·9	+1	75	+2	—	o	–	b	o	–	82	68				
	Cairo (Helwan) ...	1009·6	86	N	2	b	1011·0	+2	81	+9	ENE	3	–	b	*	–	91	70				

GALES.
Duration and Extreme Force in British Islands.

NAIRN

SW, 8; 14h, 10h – 14h.

ABERDEEN

Gusts, 18 m/s; 14h, Afternoon.

NOTE

SOLAR HALO was observed at ESKDALEMUIR Yesterday, 14th. at 18h and to-day, 15th. at 7h

LONDON OBSERVATIONS.	Humidity. 15 h. 14h	Humidity. 9 h. 15h	Sunshine for 14h	24 Hours ended 9 h. 15th. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	44	51	10.8	62	50	38	–	o.c	c.bc	bc.b
CITY (Bunhill Row)	*	*	6.1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	45	57	8.8	78	60	47	–	bc	bc	b
CAMDEN SQ. (British Rainfall) ...	46	54	7.7	82	54	52	–	bc	b	*
HAMPSTEAD (Reservoir)	*	?64	8.2	76	53	41	–	bc	b	b
S. KENSINGTON (Museum Grounds)	*	73	5.7	79	57	46	–	c.bc	b	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 14th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1627	27.3	84.5

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

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

Issue No. 20,295 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { SATURDAY 16 JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON FRIDAY 15 JUNE 1917.

Temperature exceeded 75° in many localities, and touched 82° at Richmond (Kew Observatory). Rain was experienced in some parts of Ireland and Western Scotland, but generally there was much bright sunshine - more than 14 hours at some southern stations.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR FRIDAY 15 JUNE UP TO 17 H.

	STATIONS.	Sunshine for 14TH	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17h 15TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	9·7	1	1	63	51	bc	c.or	2·0
	Banff	10·5	Trace	-	68	50	o.c	c	0·7
	Montrose	13·2	-	-	67	47	b	b	5·2
	St. Andrews	13·5	-	-	74	50	b	b	6·6
	Carnoustie	*	*	*	62	55	b	cv	7·0
Eng. N.E.	Harrogate	13·5	-	-	77	48	b.bc	b.bc	9·9
	Skegness	10·8	-	-	68	55	b	bc	11·3
Eng. N.W.	Morecambe	14·4	-	-	71	51			7·8
	Southport	15·0	-	-	75	49	bc.c	c.o.c	7·7
Midlands.	Leamington Spa								
	Malvern	11·4	-	-	75	52	bc	bc	12·0
	Ross-on-Wye	14·3	-	-	76	47	bcm	bc	11·0
Wales.	Rhyl	15·0	-	-	73	49	b.bc	c.bc.c	5·0
	Colwyn Bay	*	*	*	72	52	b	bc	7·0
	Llandudno	*	*	*	72	48	c	c	5·7
	Aberystwyth	*	*	*	67	50	c.b	c.o	10·0
England, E.	Lowestoft	10·9	-	-	68	55	bc	bc.b	12·4
	Felixstowe	12·4	-	-	69	58	b	b.bc	12·6
	Walton-on-Naze								
	Southend-on-Sea	9·7	-	-	78	56	cv	cv	11·7
England, S.E.	Margate	7·7	-	-	73	49	b	b	12·0
	Hastings	9·1	-	-	69	51	bc	b	11·1
	Eastbourne	8·3	-	-	63	46	b.bc.b	b	9·9
	Seaford	0·5	-	-	69	52	m.b	b	10·2
	Brighton								
	Worthing	9·5	-	-	70	52	b	b	10·7
	Littlehampton		-	-	66	49			
	Bognor								
	Bournemouth	13·5	-	-	69	48	b.bc	bc	12·0
England, S.W.	Weymouth	*	*	*	68	50	bc.b	b.bcy	10·0
	Torquay	14·9	-	-	66	55	o.c.bc.b	b.bc	6·7
	Paignton								
	Penzance	14·0	-	-	67	57	b.bc	bc	10·0
	Newquay	13·7	-	-	71	49	b	b	9·3
	Bude	12·8	-	-	75	50	b	b	8·5
	Ilfracombe	13·9	-	-	69	54	b	b	9·1
	Weston-s-Mare	12·3	-	-	76	52	c.bc	b.bc	6·0

REPORTS FROM FOREIGN STATIONS FOR FRIDAY 15 JUNE

	STATIONS.	Evening of 14TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 15TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1017·7	55	NE	3	c	1019·1	+1	54		SW	3	c	-	*	46
	Gorki	1023·7	55	-	0	b	1026·7	+1	59		-	0	b	-	*	45
	Velieki Luki	1024·8	61	-	0	b	1026·4	*	68	+14	SW	2	b	-	*	50
	Hangö	1025·9	59	-	0	bc	1025·1		55		SSW	3	b	-	*	50
	Riga	1026·4	61	-	0	b	1027·9	+1	68	0	-	0	b	-	*	54
	Petrograd	1023·3	63	W	2	c	1024·3	+2	63		WSW	3	c	-	72	54
	Moscow	1022·0	59	N	2	b	1021·9	-1	50	-2	W	2	b	-	*	50
	Kiev	1021·6	55	NE	2	bc	1023·1	+2	57	+3	NE	3	bc	-	*	50
	Kharkov	1018·9	55	NE	3	b									*	
	Kishinev	1016·8	63	N	1	0	1018·1	+3	52	-9	NW	2	0	1	*	50
	Elisabetgrad	1018·1	59	NNE	3	o	1019·9	+2	55	-4	NE	3	0	-	*	54
	Nicolaiev	1015·5	63	NNE	4	c	1016·3	*	57	-4	NNE	3	0	4	*	55
	Odessa	?	57	ENE	3	r	1016·6	+1	55		NNE	3	r	33	*	54
	Tarkhankout						1015·3	*	61		E	2	0	-	*	59
	Soukhoum														*	
Mediterranean.	Venice	1018·1	73	NNE	1	bc	1020·1	*	75	0	ENE	1	b	-	82	66
	Pesaro	1017·5	65	NNE	1	tbr	10197	*	73	+1	NE	2	bc	-	79	66
	Rome	10154	68	NE	1	0	1014·3	*	75	+3	N	2	b	3	84	64
	Viesti	1013·8	73	W	2	bc	1015·5	*	73	-2	E	1	b	-	81	70
	Brindisi	1016·7	73	E	3	b	1012·2	*	73	+3	E	3	b	-	73	66
	Cagliari	1013·3	77	E	4	o	1013·5	*	73	0	E	4	o	6	81	59
	Palermo	1012·1	73	-	0	c	1012·6	*	68	-9	-	0	o	-	84	61
	Tripoli						10149	*	70	0	W	1	c	-	73	66
	Algiers	1018·9	70	NNE	2	b	1018·1		72	+2	SW	0	b	-	79	66
Sweden.	Hernösand	1017·6	70	S	2	b	1018·6	*	68	+2	NW	2	bc	*	*	*
	Stockholm	1023·8	68	SSW	4	bc	1023·4	*	72	0	SW	2	b	*	*	*
	Wisby	1025·7	57	SSW	2	b	1026·6	*	66	+5	WSW	4	b	*	*	*

Morning of 15TH

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather
		°F	°F			
Isafjord	1003·7	39	-7	N	1	f
Reykjavik	1004·8	48	0	-	0	bc
Vestmanna						
Seydisfjord	1002·3	52	+6	S	4	c
Thorshavn	1015·1	54	+3	WSW	5	0

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

16 AND 17 JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·31 / 3·31	11·53 / 11·54	8·15 / 8·16
Greenwich	3·44 / 3·44	12·0 / 12·1	8·16 / 8·17
Wick	3·7 / 3·7	12·12 / 12·13	9·18 / 9·18
Valencia	4·22 / 4·22	12·41 / 12·42	9·0 / 9·1

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

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 16TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

General Inference.

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

EXPLANATION.

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

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

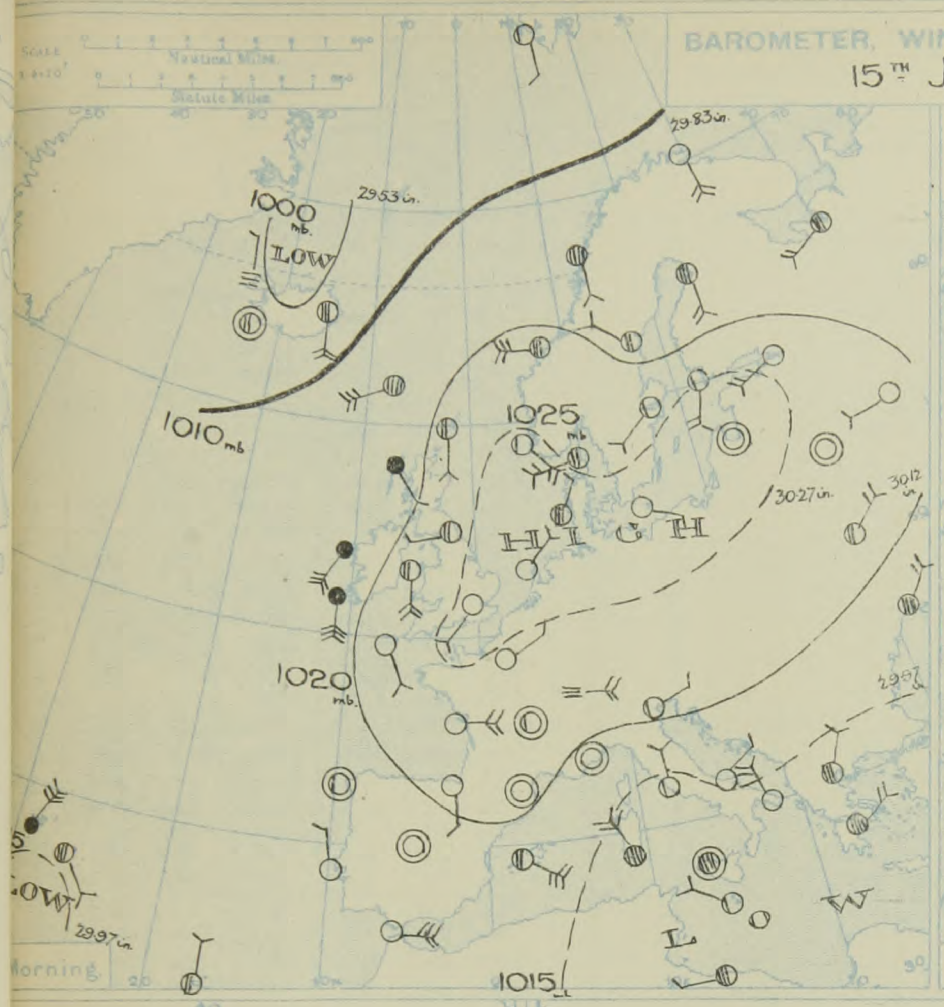
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines

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

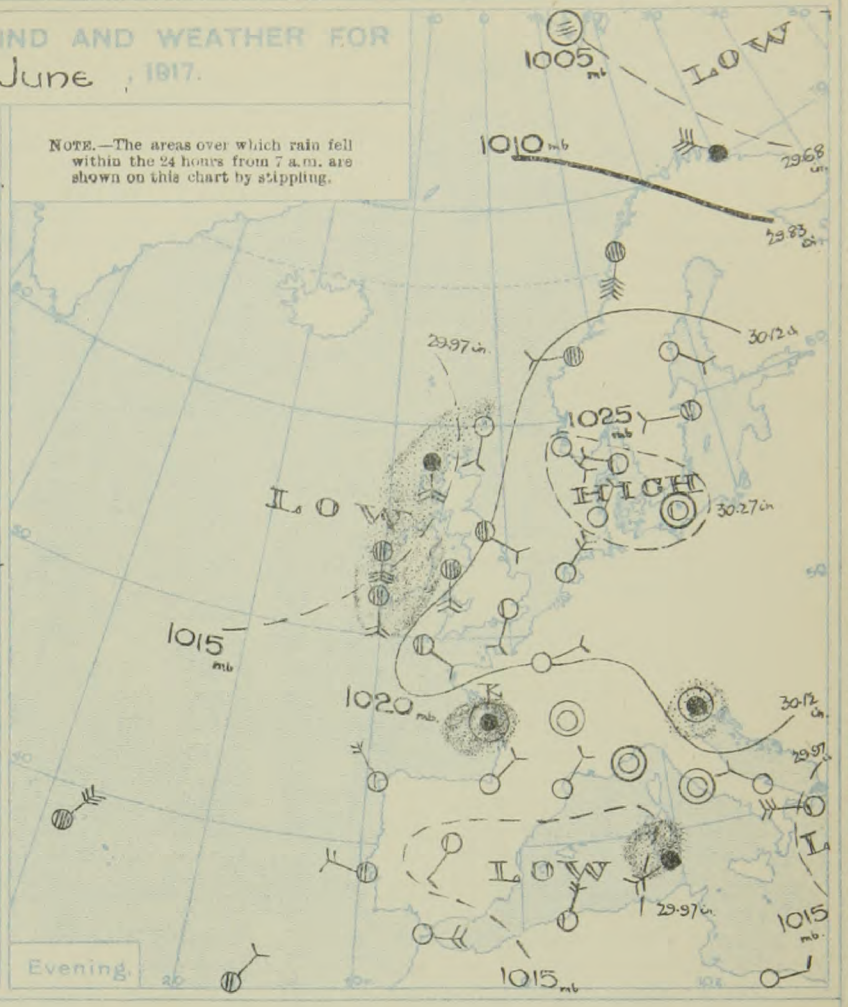
SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

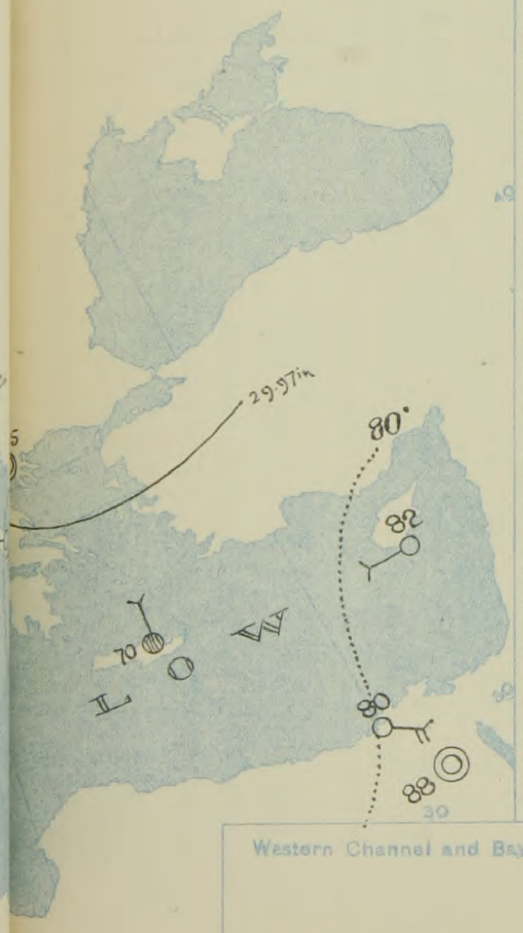
Normal Temperature of the Sea.
Below 50° 50°–60° 60°–70° Above 70°
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 15TH June, 1917.



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





Western Channel and Bay.

FURTHER OUTLOOK.

Forecasts for 6 p.m. Saturday to 6 p.m. Sunday.

0 (a, b) 1 — Wind South-West or West, moderate or light; fair; warm.

2 (a, b) 3 4 (a, b, c) — Wind light, mainly between South and South-West or variable; fine; warm.

5 — Wind mainly between East and North, light; fine, very warm, local haze.

6 (a, b) — Southerly and South-Westerly winds, moderate or light; variable sky, local showers and mist; moderate temperature.

7 (a, b) 8 (a, b) — Wind Southerly, light or moderate; mostly fair, some mist or fog on coast; moderate temperature.

9 (a, b) 10 (a, b) — Same as No. 6.

11 — North-Easterly or Easterly winds, light; fair; sea smooth.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 167. {Saturday, 16th JUNE.

	STATIONS	EVENING OF 15th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 16th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for 15th.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·2	53	SSW	2	bc	1014·9	0	51	−3	S	2	–	om	2	1	56	49	bc.cm	o bcm	omp	*
	Deerness (Orkney)	1014·9	54	S	4	omq	1014·2	*	55	+4	S	3	SW	bc	1	1	56	51	o.c.bc	bc.c.om	o.cr.bc	1·9
	Stornoway ...	1014·1	54	S	4	opq	1012·8	+2	54	+5	SSW	6	–	oq	5	8	58	49	or.opq	opq	opq	0·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1017·7	64	SSW	4	bc	1018·4	+1	56	0	SSW	2	–	c	*	1	70	54	o.c.oz	o.c.bcz	bc.opm	3·7
	Eskdalemuir ...	1019·6	61	SSW	4	b	1019·3	+2	55	+3	SSW	4	–	orm	*	1	68	51	cw.cm	bcz.b	b.o.orm	9·0
	Malin Head ...	1013·0	58	SW	6	omrq	1015·0	*	55	−2	SW	4	W	cmq	3	4	63	52	cq	omrq	cmq	0·1
	Blacksod Point	1011·2	55	S	6	cmpq	1014·4	+3	54	−3	S	3	S	bc	4	10	57	52	ompq	omqp	omr.bc	*
	Valencia (Cahirciveen)	1015·2	59	S	4	c	1017·7	+3	56	−2	S	4	–	o	4	18	59	54	or	or.c	c.o.opr	1·5
	Roche's Point	1018·3	57	SSW	3	r	1020·1	*	56	−1	SSW	3	–	o	3	1	61	53	om	or	orm	*
	Birr Castle ...	1016·3	57	SSW	1	r	1018·2	*	56	−5	S	1	S	c	*	10	65	51	cp.od	c.od.or	o.c	1·7
	Donaghadee ...	1017·7	56	WSW	2	omp	1017·7	+2	56	+4	SSW	2	–	bcm	1	0·2	63	51	bcmq	bcmpq	ogmp	*
	Liverpool (Bidston)	1020·2	66	NNW	1	c	1020·7	0	65	+3	SSE	1	S	bc	1	–	74	59	b.bc	c.o	c.bc	7·7
	Holyhead ...	1018·5	60	S	4	og	1020·1	+1	56	+3	SSW	4	–	fe	3	–	65	52	bc.c.bc	bc.c.bc	c.of.fe	4·0
	Pembroke (St. Ann's)	1020·9	59	SSE	2	bc	1021·5	+2	55	0	S	1	–	f	2	–	61	54	bc	bc	c.of	8·5
	Scilly (St. Mary's)	1021·2	66	SE	1	bc	1021·5	0	60	+1	–	0	–	bc	3	–	67	56	c.bc	c.bc	bcm.c	12·1
	Falmouth ...	1021·1	64	SE	2	bz	1021·2	0	59	+1	NNE	2	–	om	*	–	66	57	om.bc	bc.b	bz.om	7·7
	Jersey (St. Aubin)	1021·4	74	ENE	2	b	1020·6	*	68	+4	E	1	–	b	1	–	78	63	c.b	b	b	10·5
	Portland Bill ...	1022·6	58	E	2	bc	1021·4	0	61	+5	E	2	–	b	2	–	62	55	f.bc	bc	bc.b	*
	Dungeness ...	1022·9	62	SE	1	b	1021·1	+1	67	+17	NNE	1	NE	b	0	–	67	61	f.bc	bz	b.bc	*
	Dover	1022·9	65	SE	2	b	1021·6	0	71	+11	N	2	–	b	2	–	74	52	b	b	b	13·1
	Wick	1015·2	57	SSE	2	o	1014·4	0	53	+2	SSW	3	–	bc	3	–	60	49	omg	omg	og.bcm	*
	Nairn	1014·3	71	S	3	cqu	1015·1	*	62	+4	SW	1	–	bc	1	–	73	51	cg	bc.cq	cq	3·5
	Aberdeen ...	1016·1	60	S	3	b	1017·1	+1	63	+7	S	3	–	b	2	–	64	53	bc.c	c.o.c.b	bc.b	5·4
	Leith	1017·1	71	SW	2	bc	1017·9	0	59	+2	SW	1	–	o	1	1	76	57	c.bc.b	c.bc	bc.cpo	*
	Tynemouth ...	1023·8	61	SE	2	cm	1019·8	0	63	+2	SSE	1	–	bcm	2	–	63	55	bcm	cm	bcm	*
	Spurn Head ...	1021·7	60	SSE	4	bcm	1022·6	0	63	+3	WSW	1	–	bc	2	–	63	57	bc	bc	bc	12·0
	Yarmouth (Gorleston)	1023·3	61	SE	3	b	1022·5	0	60	+1	NW	1	–	bm	1	–	64	57	b	b	bcm	14·6
	Clacton-on-Sea	1022·9	65	ESE	3	b	1022·5	0	67	+5	NNW	2	–	bc	1	–	68	58	b	b	b.bcz	14·6
	Nottingham ...	1021·0	74	S	3	b	1021·8	*	65	+4	SW	1	SW	b	*	–	60	56	b	b	b	12·2
	Benson (Oxon.) ...	1021·1	76	S	1	b	1021·6	+1	69	+7	–	0	SE	b	*	1	80	49	bc	b	b	*
	Sth Farnborough	1021·4	76	SW	2	b	1021·7	+1	68	+5	–	0	S	bzw	*	–	80	50	b.bc	bc.b.c.b	bmzw	14·4
	London (Kew Obsy.)	1021·5	81	SSW	2	b	1022·6	+1	66	+5	–	0	SW	bm	*	–	82	56	b.bv	bv	bv.bmw.b	14·1
NORTHERN EUROPE.	Spitsbergen ...	1005·0	32	–	0	f	1006·6	+2	34	0	S	1	*	b	*	*	36	27				
	Vardö	1006·4	45	NW	6	r	1005·5	−3	43	−3	SW	2	–	o	2	*	46	39				
	Bodö	1017·0	50	SSW	8	o	1018·2	0	50	+2	SW	4	–	o	2	–	50	46				
	Christiansund ...	1023·4	59	N	2	o	1018·3	−1	64	+9	S	1	–	o	3	–	59	54				
	Skudesnaes ..	1025·1	61	SSE	2	b	1022·2	0	61	+2	SE	3	–	b	2	–	63	52				
	Færder (X'tania Fjord)	1024·0	64	SW	4	c	1024·6	0	64	–	SSW	4	W	b	2	–	68	63				
	The Scaw (Skagen)	1026·6	64	W	2	b	1025·5	0	64	0	SE	1	–	b	0	–	66	52				
	Blaavands Huk	1025·4	66	NNE	2	b	1023·8	*	68	+4	SSE	1	–	bc	*	–	70	54				
	Copenhagen ...	1025·9	73	–	0	b	1026·4	+1	68	+4	WSW	2	–	b	*	–	75	61				
	Bornholm ...	1026·3	66	–	0	b	1027·1	+1	68	+4	N	1	–	b	0	–	72	61				
FRANCE, &c.	The Helder ...	1023·5	68	NE	4	b	1022·2	0	68	+3	ENE	1	–	b	1	–	70	64				
	C. Gris Nez ...	1022·8	63	NE	2	b	1021·9	+1	64	+5	NE	3	*	b	2	–	70	55				
	La Hève	1021·9	64	NNE	1	b	1021·0	*	51	–	NE	1	*	b	0	–	77	63				
	Brest (St. Mathieu)	1021·6	71	N	2	b	1019·9	−1	64	−1	NNW	3	*	b	?	–	80	?				
	Rochefort (Ile d'Aix)	1017·8	83	–	0	tlr	1018·8	+1	69	+3	ESE	2	*	bc	*	–	93	64				
	Biarritz	1016·6	72	NE	2	b	1019·2	+2	70	+2	SW	2	*	b	2	–	82	64				
	Paris	1017·9	80	ENE	2	b	1021·2	+1	72	+4	–	0	–	b	*	–	84	59				
	Belfort							*					*		*							
	Lyons	1018·6	79	–	0	b	1021·2	*	70	+3	ESE	1	*	b	*	–	82	59				
	Nice	1015·3	76	–	0	b	1021·3	+1	74	+1	–	0	*	b	0	–	82	63				
	Perpignan ...	1018·2	79	NE	2	b	1020·7	+3	70	−3	–	0	–	b	*	–	82	57				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1019·5	68	NW	3	b	1019·7	0	64	−2	NNE	–	1	c	5	–	72	61				
	Madrid	1014·6	82	SW	1	b	1019·9	+1	72	+2	E	3	SE	bc	*	–	86	64				
	Lisbon	1015·2	80	WNW	3	bc	1016·4	+1	73	+3	–	0	–	b	2	–	93	70				
	Azores (Horta) ...	1017·2	*	NNE	6	o	1021·0	+1	59	+1	NNE	5	*	bc	3	–	61	59				
	Madeira	1018·4	70	NNE	2	bc	1018·4	0	64	+1	NNE	2	–	o	2	–	72	64				
	Gibraltar	1019·3	69	E	4	b	1018·9	*	70	+1	SE	6	*	b	4	–	76	68				
	Malta	*	*	*	*	*	1017·7	+5	72	0	–	0		b	0	–	75	68				
	Limassol	*	*	*	*	*	1013·6	+1	82	+7	W	2	–	b	0	–	64	63				
	Alexandria ...	1013·0	75	NE	2	b	1012·4	+1	80	+5	SE	3	–	b	1	–	85	70				
	Cairo (Helwan) ...	1011·2	86	NE	4	b	1012·3	+2	88	+7	–	0	–	b	*	–	99	77				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 15th	Humidity. 9 h. 16th	Sunshine for 15th	24 Hours ended 9 h. 16th. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F	mm.			
GREENWICH (Royal Observatory)	39	57	15·2	63	54	44	–	b	b.bc	bz.bcz
CITY (Bunhill Row)	*	*	12·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	44	72	13·6	80	58	51	–	b	b	b
CAMDEN SQ. (British Rainfall) ..	38	54	11·7	65	58	54	–	b	b	*
HAMPSTEAD (Reservoir)	*	56	14·5	76	58	44	–	b	b	b
S. KENSINGTON (Museum Grounds)	*	53	14·3	81	61	56	–	bc.b	b	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 15th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
2366	39.7	81.

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

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

Issue No. _____ **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { SUNDAY 17 JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON SATURDAY 16 JUNE 1917.

Fine, warm weather prevailed, with large sunshine records, and temperature ranging up to 84° about London, and 86° at Benson. Thunderstorms occurred in various parts of England, very severe in the London district, with rain and hail up to 44 mm. at Richmond, and 72 mm. at Camden Square.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR SATURDAY 16 JUNE UP TO 17 H.

	STATIONS.	Sunshine for 15TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 16TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	2·0	11	1	60	50	bc	op.r	2·3
	Banff	2·2	-	-	71	54	bc	bc	4·6
	Montrose	6·8	-	-	70	49	b	b	
	St. Andrews								
	Carnoustie	*	*	*	71	63	b	b	10·3
Eng. N.E.	Harrogate	10·2	-	-	76	55	b. bc	b. bc	9·7
	Skegness		-	-	76	57	bc	bc	11·7
Eng. N.W.	Morecambe								
	Southport	8·8	-	-	69	56	c.o. c. bc	b. bc. c	7·0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	12·8	-	-	82	53	b. bc	b	10·6
Wales.	Rhyl								
	Colwyn Bay								
	Llandudno		*	*					
	Aberystwyth	*	*	*	66	60	o.c. b	c. bc	6·0
England, E.	Lowestoft								
	Felixstowe	14·5	-	-	72	57	bcm	bcm	11·9
	Walton-on-Naze								
	Southend-on-Sea	14·3	-	-	78	61	by	b. bcz. u	7·3
England, S.E.	Margate	14·0	-	-	71	60	b	b	11·3
	Hastings	13·7	-	-	79	60	b	b	11·0
	Eastbourne	12·4	-	-	73	57	by	b	10·5
	Seaford								
	Brighton								
	Worthing	13·2	-	-	79	55	b	b	10·2
	Littlehampton		-	-	77	56			12·5
	Bognor								
	Bournemouth	12·5	-	-	77	51	b	b	13·4
England, S.W.	Weymouth		*	*					
	Torquay								
	Paignton								
	Penzance	12·0	-	-	71	53	b	c	
	Newquay		-	-	73	60	b	b	8·0
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR SATURDAY 16 JUNE

	STATIONS.	Evening of 15 TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 16 TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1009·5	- 1	57	+ 3	E	4	c	3	*	55
	Gorki	1025·5	64	-	0	b	1027·3	+ 2	64	+ 5	-	0	b	-	*	50
	Velieki Luki						1025·6	*	68	0	SW	2	b	-	*	57
	Hangö	1022·9	55	WSW	2	c	1025·1		54	- 1	-	0	o	-	*	50
	Riga	1025·7	64	-	0	b	1027·1	- 1	70	+ 2	-	0	b	-	*	57
	Petrograd	1021·0	66	W	2	bc	1022·4	+ 3	63	0	WNW	3	bc	-	70	59
	Moscow	1021·9	66	NW	3	o	1021·6	0	64	+14	NW	2	bc	-	*	55
	Kiev	1024·4	63	NE	2	b	1025·2	+ 1	66	+9	NE	2	b	-	*	54
	Kharkov	1023·3	55	-	0	b	1025·1	+ 1	66		-	0	c	-	*	
	Kishinev	1018·6	55	NW	2	r	?	?	59	+7	NE	2	o	10	*	50
	Elisabetgrad	1022·0	63	E	2	c	1023·9	+ 2	64	+9	ENE	3	bc	-	*	
	Nicolaiev	1020·3	63	SE	3	c	1022·4	*	61	+4	ENE	3	bc	8	*	57
	Odessa	1019·8	63	SE	2	o	1021·6		61	+6	ESE	3	o	3	*	59
	Tarkhankout	1018·9	63	NE	2	b	1020·2	*	66	+5	E	2	c	-	*	61
	Soukhoum														*	
Mediterranean.	Venice	1020·6	75		0	b	1022·6	*	75	0	E	1	b	-	82	70
	Pesaro	1020·6	75	NE	3	b	1022·3	*	72	-1	NE	2	b	-	79	57
	Rome	1017·3	73	-	0	b	1019·3	*	72	-3	-	0	b	-	84	64
	Viesti	1017·3	73	WNW	2	b	1019·5	*	75	-2	NE	1	b	-	81	68
	Brindisi	1016·6	73	E	5	b	1014·3	*	72	-1	E	4	b	-	79	62
	Cagliari	1016·3	72	WSW	4	r	1016·3	*	72	-1	E	4	o	12	77	55
	Palermo						1018·7	*	68	0	-	0	o	14	77	63
	Tripoli	1015·9	70	E	1	b	1018·3	*	73	+3	NE	1	b	-	75	64
	Algiers	1018·0	72	NNE	3	b	1019·9	+1	72	0	ENE	3	bc	-	79	66
Sweden.	Hernösand	1021·9	66	SSE	2	b	1024·0	*	72	+4	SW	2	b	*	*	*
	Stockholm	1022·4	75	W	2	bc	1023·8	*	63	-9	S	2	b	*	*	*
	Wisby	1024·0	66	SSW	4	b	1025·7	*	63	-3	SW	2	b	*	*	*

Morning of 16 TH

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	F			
Isafjord	1011·3	39	0	-	0	f
Reykjavik	1008·8	45	- 3	-	0	o
Vestmanna						
Seydisfjord	1007·0	46	- 6	S	4	c
Thorshavn	1008·7	55	+ 1	S	3	r

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

17 AND 18 JUNE 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3·31 / 3·31	11·54 / 11·54	8·16 / 8·16
Greenwich	3·44 / 3·44	12·1 / 12·1	8·17 / 8·18
Wick	3·7 / 3·7	12·13 / 12·13	9·18 / 9·19
Valencia	4·22 / 4·22	12·42 / 12·42	9·1 / 9·1

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

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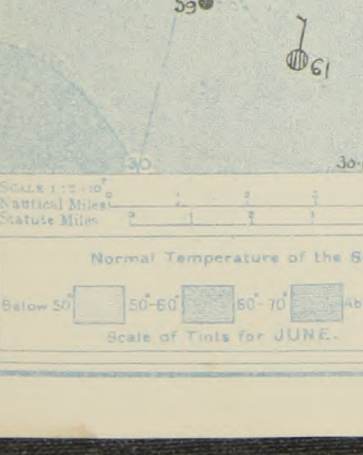
‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 17TH JUNE, 1917.

TEMPERATURE WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.



General Inference

The pressure changes in the immediate future are likely to be slow and generally downward, without, however bringing about any radical alteration in the general distribution.

EXPLANATION.

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

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

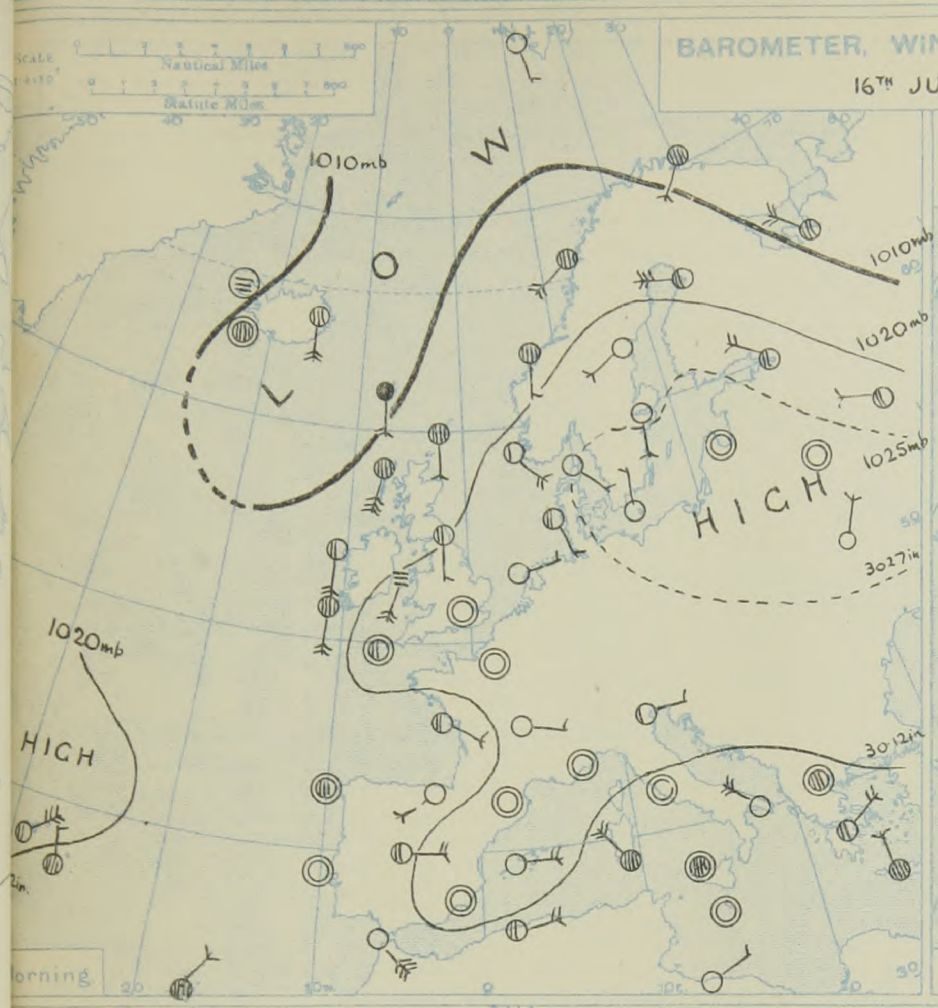
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

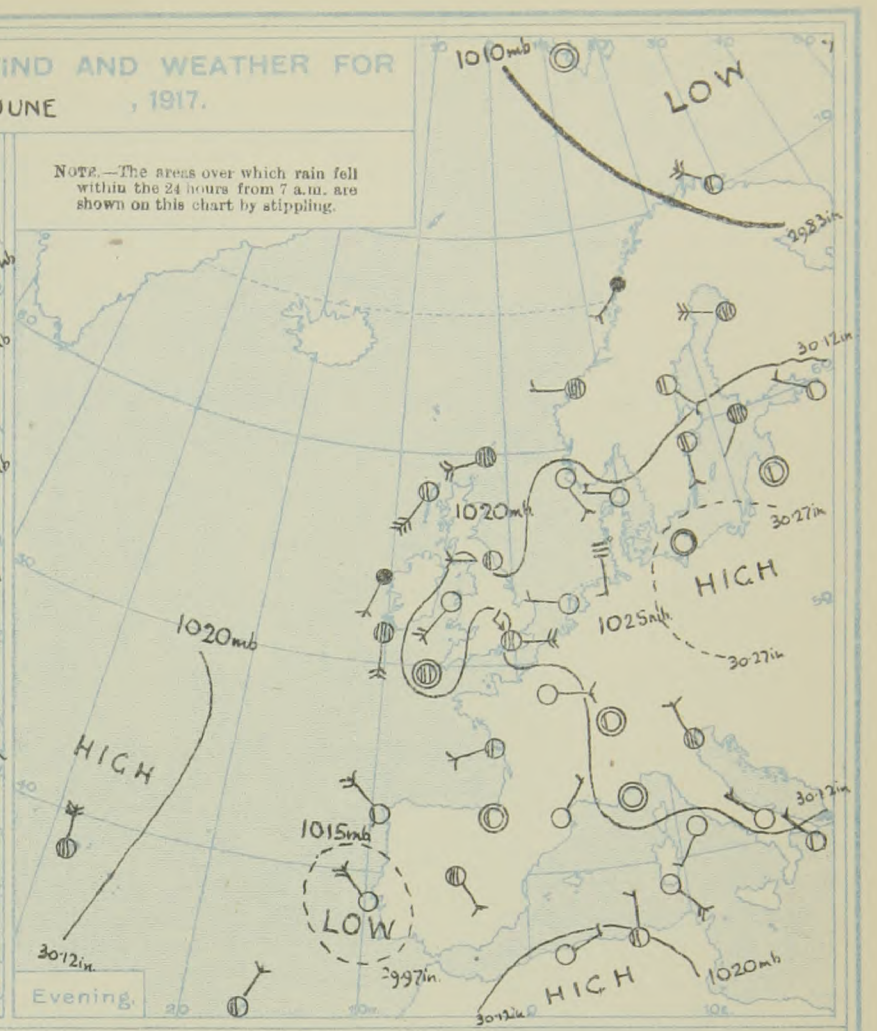
Scale 1 : 7 : 10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

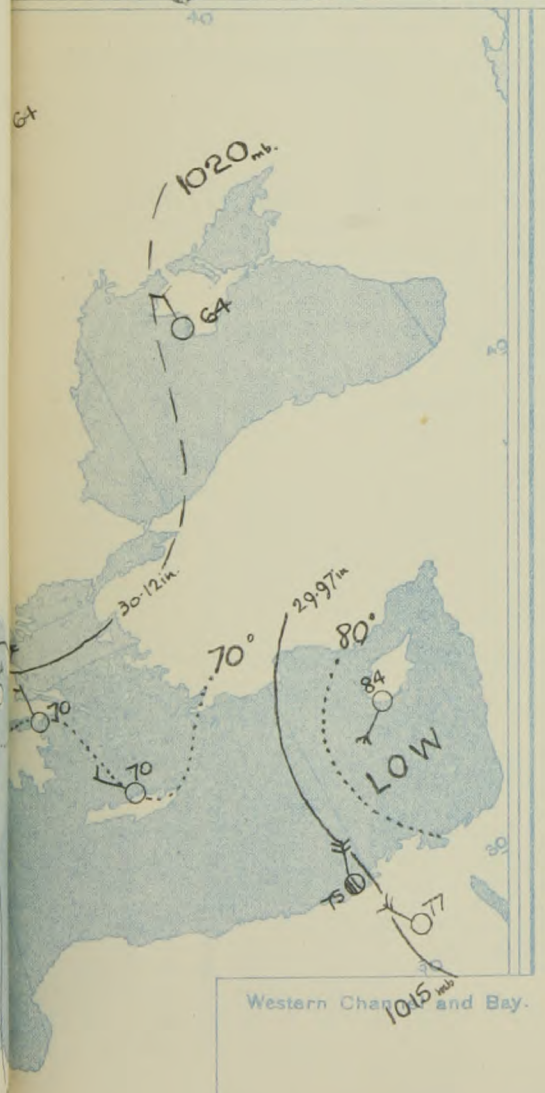
Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 16TH JUNE, 1917.



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





Forecasts 18h. Sunday to 18h. Monday

0 {a, b} Wind between SW. and W., light or moderate; fair generally, thunderstorms locally; warm.

1, 2 {a, b}, 3, 4 {a, b, c}, 5 Wind mainly between NE. and E., light; fair generally, but thunderstorms locally; temperature high.

6 {a, b} Same as No. 0 and 1.

7 {a, b}, 8 {a, b} Wind N., light or variable, mostly fair, dull at times. Local thunderstorms. Moderate temperature.

9 {a, b}, 10 {a, b} Wind between SW. and NW., light or moderate; fair generally, moderate warmth.

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

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 168 { Sunday. 17th June

	STATIONS	EVENING OF 16th					MORNING OF 17th								24 HOURS ENDED 7 A.M.					Sunshine for 16th
		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 ...	1016·8	57	WSW	4	0	1015·0	0	54	+3	SW	3	SW	c	3	–	61	51	om.bc	bc.o	c	*
	Deerness (Orkney)	1016·6	60	W	2	c	1015·9	*	54	-1	SSW	2	–	o	1	–	63	51	bc.c	c.bc.c	c.bc.bo	6·0
	Stornoway ...	1015·3	57	SW	6	bcq	1016·6	+1	52	-2	WNW	2	–	odp	1	0·3	59	52	op.cq	c.bcg	c.odp	4·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1018·9	64	SW	4	bc	1019·4	0	56	0	WSW	1	W	c	*	–	66	50	bc.b.bc	bcz	bc.c.bc	10·3
	Eskdalemuir ...	1020·2	61	SSW	4	bc	1019·8	-1	52	-3	–	0	SW	bcω	*	1	63	36	orm.c	c.bc.b	b.bl.bc	7·5
	Malin Head ...	1018·2	60	NNW	2	bc	1019·5	0	54	-1	SW	2	SW	c	2	–	64	52	bcq	bcp	c	6·0
	Blacksod Point	1018·4	55	SSW	2	omd	1019·5	0	54	0	S	1	–	c	1	0·2	61	52	bc	bcm	czq	*
	Valencia (Cahirciveen)	1019·6	58	S	4	0	1020·6	0	55	-1	–	0	S	bc	2	0·2	62	51	o.c.o	o.c.od.o	c.o.sw	1·4
	Roche's Point	1021·2	60	S	3	c	1021·3	*	52	-4	NNW	1	–	f	2	0·2	63	50	o.c	c.bc	b.ofe	*
	Birr Castle ...	1018·7	65	S	1	0	1020·6	*	55	-1	E	1	–	o	*	–	68	48	oz.c	z.o	o	4·5
	Donaghadee ...	1018·4	63	SSW	4	bz	1019·3	0	57	+1	NNW	1	–	bcm	1	–	66	50	bcz	bczq	bm.bcm	*
	Liverpool (Bidston)	1020·5	64	NW	1	bc	?1019·7	0	59	-6	WSW	1	–	b	1	2	70	56	bc.b	bc.o	orlr	9·0
	Holyhead ...	1020·7	61	SW	3	b	1019·7	-1	56	0	N	2	–	b	0	Trace	64	50	b.bc.b	b	b.bω	11·0
	Pembroke (St. Ann's)	1021·2	60	WNW	1	bc	1019·2	0	57	+2	N	2	N	bc	2	–	63	53	f.bcf	bc	bc	5·5
	Scilly (St. Mary's)	1021·1	63	–	0	cm	1019·6	0	59	-1	NNE	2	N	b	3	–	66	58	bc.cm	bcmf	bc.b	10·5
	Falmouth ...	1019·8	63	NNW	2	czt	1017·8	0	61	+2	NNW	3	–	b	*	–	71	58	om.b	b.bc.ct	ct.b	7·1
	Jersey (St. Aubin)	1018·2	77	ENE	2	0	1017·4	*	66	-2	W	1	–	b	0	–	83	60	b	b.o	o.bm	10·5
	Portland Bill ...	1019·2	64	E	3	b	1017·4	-2	64	+3	E	3	E	bc	2	–	67	60	b	b.bc	bm.bc	*
	Dungeness ...	1019·9	64	NE	6	b	1018·7	0	63	-4	NE	2	–	b	1	–	71	57	bc	bc	c.b	*
	Dover	1020·4	76	ENE	2	b	1018·9	0	74	+3	S	1	–	o	2	–	79	59	b	b	b.bc.b	13·4
	Wick	1016·6	61	SW	3	bc	1016·0	0	54	+1	WSW	1	–	o	2	–	67	50	bcm	bcm	bc.c.om	*
	Nairn	1017·1	64	WSW	2	bc	1017·1	*	57	-5	–	0	–	c	1	–	68	51	bcq	cq	bc.c	7·2
	Aberdeen ...	1018·3	70	SW	3	bc	1017·6	-1	61	-2	SSW	1	SW	o	2	–	70	54	bc.b	c.bc	bc.c.o	10·8
	Leith	1018·6	70	WSW	1	c	1018·6	0	57	-2	NW	1	W	bc	1	0·3	71	52	op.o.bc	bcu.c	c.cz.bc	*
	Tynemouth ...	1019·8	72	W	2	bcm	1019·4	0	61	-2	–	0	SW	cm	2	2	72	55	cm	bcm	cm.rp	*
	Spurn Head ...	1021·4	?	SE	4	bc	1020·7	0	64	+1	SSE	1	–	b	2	–	77	58	bc	bc	bc	11·6
	Yarmouth (Gorleston)	1021·2	62	SE	1	b	1020·6	0	63	+3	ENE	2	–	bc	2	–	72	57	b	bm	bcm	13·7
	Clacton-on-Sea	1020·5	69	ESE	2	bc	1019·4	0	65	-2	ENE	2	E	bc	1	–	73	60	bcz	bcz	bcz	12·2
	Nottingham ...	1019·7	79	S	1	b	1018·9	*	69	+4	S	1	S	b	*	0·2	83	61	b.bc	bc.b	bclr	12·4
	Benson (Oxon.) ...	1019·6	83	S	1	bc	1018·6	+1	65	-4	–	0	–	bm	*	–	86	54	b	bc	ctl.bm	*
	Sth Farnborough	1018·8	79	SE	2	bc	1018·4	0	61	-7	ENE	1	–	of	*	1	85	55	bz	bptl.bcz	t.bc.of	12·3
	London (Kew Obsy.)	1020·2	67	E	4	cgl	1019·0	+1	64	-2	NE	1	–	f	*	44	85	61	bm.bz	cz.c.otlrh	ctl.bmf	9·8
NORTHERN EUROPE.	Spitsbergen ...	1008·4	34	–	0	b	1007·5	-1	36	+2	–	0	*	o	*	*	39	28				
	Vardö	1007·3	45	NW	4	bc	1008·8	0	39	-4	–	0	–	o	4	*	45	41				
	Bodö	1013·1	50	SW	2	r	1009·1	0	50	0	SW	2	–	o	2	?	50	46				
	Christiansund ...	1015·7	55	W	1	0	1015·3	0	54	-10	W	4	–	o	3	6	66	54				
	Skudesnaes ...	1020·3	61	SE	2	b	1019·0	-1	63	+2	SE	3	–	b	2	–	64	55				
	Færder (X'landa Fjord)	1018·9	66	SSW	4	bc	1018·9	0	64	0	SW	4	–	b	2	–	68	63				
	The Scaw (Skagen)	1022·3	72	W	1	b	1020·8	0	66	+2	–	0	–	b	0	–	73	59				
	Blaavands Huk	1022·9	73	S	1	m	1021·1	?	?72	+4	S	1	W	c	3	–	75	57				
	Copenhagen ...	1024·3	73	SW	2	b	1022·7	-1	72	+4	WSW	2	–	b	*	–	79	64				
	Bornholm ...	1025·2	72	–	0	b	1023·8	0	73	+5	SW	2	–	m	0	–	73	63				
FRANCE, &c.	The Helder ...	1020·4	75	WNW	1	b	1018·5	0	72	+4	SE	1	N	b	0	–	73	64				
	C. Gris Nez ...	1019·9	63	ENE	3	bc	1018·7	-1	76	+12	SSE	2	*	b	0	–	68	57				
	La Hève	1018·6	75	NNE	1	m	1019·5	*	70	+19	ENE	3	*	m	2	–	86	66				
	Brest (St. Mathieu)	1019·0	59	NNW	4	m	1018·3	-1	61	-3	N	1	*	m	2	–	72	57				
	Rochefort (Ile d'Aix)	1018·0	77	WSW	2	bc	1017·5	0	69	0	ESE	4	*	b	*	–	93	66				
	Biarritz	1016·8	75	–	0	b	1011·9	-1	73	+3	ESE	3	*	b	1	–	77	63				
	Paris	1019·1	81	E	2	b	1019·5	0	72	0	SSE	1	–	b	*	–	88	61				
	Belfort	1021·0	79	–	0	b	1022·6	*	67		–	0	*	m	*	–	84	56				
	Lyons	1019·4	78	–	0	b	1021·0	*	70	0	SSE	1	*	b	*	–	87	61				
	Nice	1021·2	70	–	0	b	1022·4	0	70	-4	E	1	*	b	2	1	79	55				
	Perpignan ...	1019·5	81	NE	1	b	1020·8	-1	72	+2	–	0	–	b	*	–	91	56				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1017·5	66	NW	3	b	1019·1	0	73	+9	SE	1	SW	bc	1	–	70	61				
	Madrid	1016·3	82	SE	2	c	1020·0	D	70	-2	E	3	–	b	*	–	84	61				
	Lisbon	1014·6	82	WNW	3	b	1014·3	+1	72	-1	N	2	–	b	2	–	88	70				
	Azores (Horta) ...	1022·4	*	NNE	5	c	1023·9	+1	59	0	NNE	4	*	r	2	2	66	57				
	Madeira	1017·9	68	NNE	2	bc	1019·1	-1	64	0	N	2	–	c	2	–	68	64				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1021·0	+2	73	+1	NE	3	–	c	2	10	75	68				
	Limassol	*	*	*	*	*	1013·3	0	84	+2	WSW	2	–	b	0	–	90	66				
	Alexandria ...	1014·4	77	–	0	b	1016·2	+2	75	-5	N	4	NW	c	2	–	104	70				
	Cairo (Helwan) ...	1011·8	99	NNE	4	b	1014·7	+4	77	-11	NW	3	–	b	*	–	110	73				

LONDON OBSERVATIONS.

	Humidity. 15 h. 16th	Humidity. 9 h. 17th	Sunshine for 16th	24 Hours ended 9 h. 17th. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	51	70	9·8	83	59	47	–	bc	bc.dl	bc.bcf
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	55	70	7·8	83	62	59	7	b.bc	bc.dlhm	b
CAMDEN SQ. (British Rainfall) ...	46	63	8·3	88	61	57	72	b	b.dlr	*
HAMPSTEAD (Reservoir)	*	79	10·5	82	56	51	35	bc.dlh	c	bm
S. KENSINGTON (Museum Grounds)	*	71	8·0	75	63	57	24	b.bc	cz.dtrg	dlr.or.c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 16th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1489	25·0	66

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

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

Issue No. 20297 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Monday 18TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Sunday 17TH JUNE 1917.

Temperature rose to the high value of 89° at Richmond (Kew Observatory), Benson, and South Farnborough and to nearly as high in many other parts of Englnad. Thunderstorms were experienced at stations scattered over a wide area, the heaviest rain measurement being 13 mm. at Spurn Head. Bright sunshine was very prevalent in Great Britain.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Sunday 17TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 16TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon	Sunshine to 17 h. 17TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	2·3	trace	–	58	52	r. o	6c	3·3
	Banff	6·1	–	trace	63	52	6c. c	c r. 6c. c	1·5
	Montrose	8·0	*	*	70	43	6	o	2·0
	St. Andrews								
	Carnoustie	*	*	*	72	59	6c	6	8·2
Eng. N.E.	Harrogate	11·0	–	–	79	57	6. 6c. 6	6c. c	6·0
	Skegness		–	–	72	59	6	6. o	10·1
Eng. N.W.	Morecambe								
	Southport	8·8	–	–	65	59	6	6c. c	10·2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl	10·2	–	–	66	51	6c. c	6c. 6	7·7
	Colwyn Bay	*	*	*	65	56	6c	6	7·2
	Llandudno	*	*	*	66	55	c. 6	6	8·8
	Aberystwyth	*	*	*	63	55	o. c 6	6c. c	9·0

	STATIONS.	Sunshine for 16TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 17TH
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	12·6	–	–	73	59	6m	6m	11·7
	Felixstowe								
	Walton-on-Naze								
	Southend-on-Sea	7·6	–	–	88	59	6	6 2. c	10·3
England, S.E.	Margate								
	Hastings	12·9	*	*	82	63	6	6	12·3
	Eastbourne	11·7	–	–	76	60	6	6	12·0
	Seaford								
	Brighton		–	–	74	62	6	6	7·6
	Worthing	11·3	–	–	79	61	6	6	12·3
	Littlehampton								
	Bognor								
	Bournemouth	13·8	*	*	79	58	6	6	12·7
England, S.W.	Weymouth		*	*					
	Torquay		–	–	73	60	6	6. 6c. c	10·8
	Paignton								
	Penzance								
	Newquay		–	–	61	56	6	6	8·4
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Sunday 17TH JUNE

	STATIONS.	Evening of 16TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 17TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1011·1	59	WSW	2	0	1010·3	+2	55	–2	NW	2	6c	–	*	52
	Gorki	1024·6	63	–	0	6									*	
	Velieki Luki							*							*	
	Hangö	1022·3	56	?	0	0	1018·7	+2	57	+3	WSW	1	6c	–	*	50
	Riga	1023·9	70	–	0	6									*	
	Petrograd	1021·5	64	WSW	1	6	1018·6	–2	64	+1	WSW	3	6c	–	70	59
	Moscow	1019·9	68	WSW	2	6	1021·3	+1	63	–1	NNW	3	6	–	*	54
	Kiev	1024·7	66	?	?	6c	1024·2	+1	64	–2	N	1	6c	2	*	57
	Kharkov	1023·0	68	WNW	2	6c									*	
	Kishinev														*	
	Elisabetgrad	1023·3	63	ENE	1	6									*	
	Nicolaiev							*							*	
	Odessa	1024·2	61	SE	2	0									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1021·8	63	NNW	2	c	1022·3	*	73	–2	NE	1	6	–	82	66
	Pesaro	1022·7	66	S	1	6	1022·7	*	70	–2	NNW	1	6	–	77	55
	Rome	1019·8	72	SW	1	6	1021·5	*	72	0	N	1	6	–	84	63
	Viesti	1020·5	70	NW	1	6	1020·5	*	72	–3	?	?	6	–	79	66
	Brindisi	1019·8	70	NW	1	6	1018·6	*	64	–8	NW	1	6	–	73	63
	Cagliari	1019·9	77	SE	3	6	1020·2	*	73	+1	SE	2	6	2	79	57
	Palermo						1021·7	*	72	+4	–	0	6	9	72	57
	Tripoli						1020·9	*	68	–5	ESE	1	0	2	75	68
	Algiers															
Sweden.	Hernösand	1015·9	61	SSE	2	6c	1018·4	*	75	+3	WSW	4	6	*	*	*
	Stockholm	1020·6	71	S	2	6c	1014·9	*	68	+5	W	2	6	*	*	*
	Wisby	1022·7	73	SSW	2	6	1021·5	*	70	+7	SW	2	6	*	*	*

ICELAND.	Morning of 17TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1004·6	43	+4	–	0	8
Reykjavik	1001·9	46	+1	–	0	0
Vestmanna						
Seydisfjord	1003·0	43	–3	NE	2	8
Thorshavn	1011·8	51	–4	W	3	6c

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

18TH and 19TH JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	3·31	11·54	8·16
	5·31	11·54	8·17
Greenwich	3·44	12·1	8·18
	3·44	12·1	8·18
Wick	3·7	12·13	9·19
	3·7	12·13	9·19
Valencia	4·22	12·42	9·1
	4·22	12·42	9·2

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

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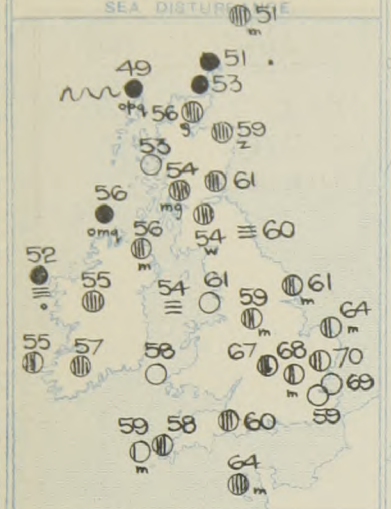
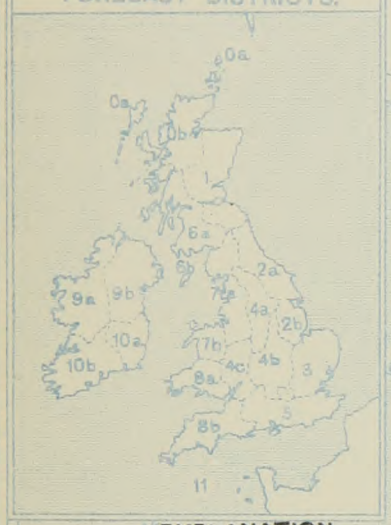
‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.



EXPLANATION.

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

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

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

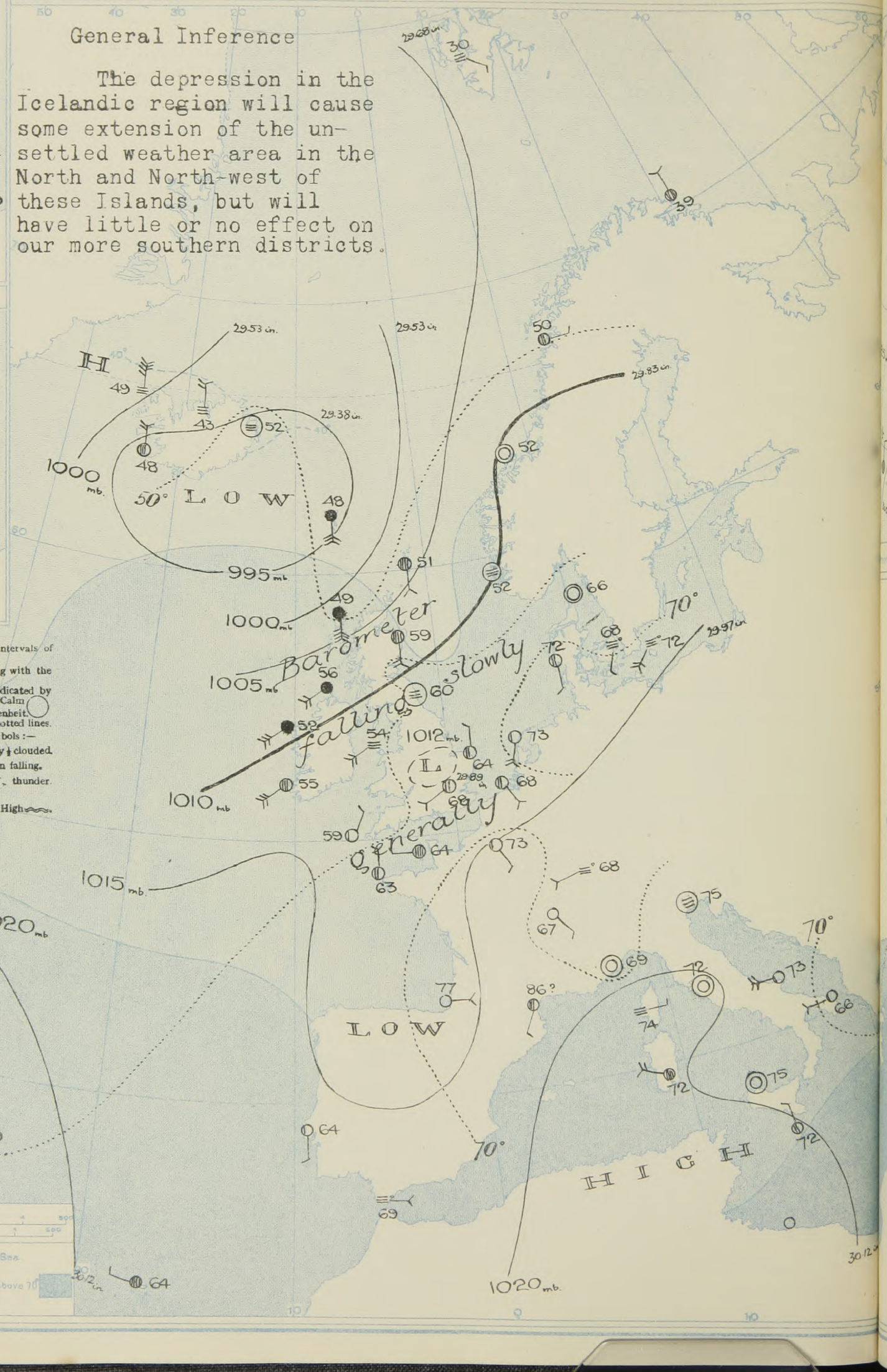
WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

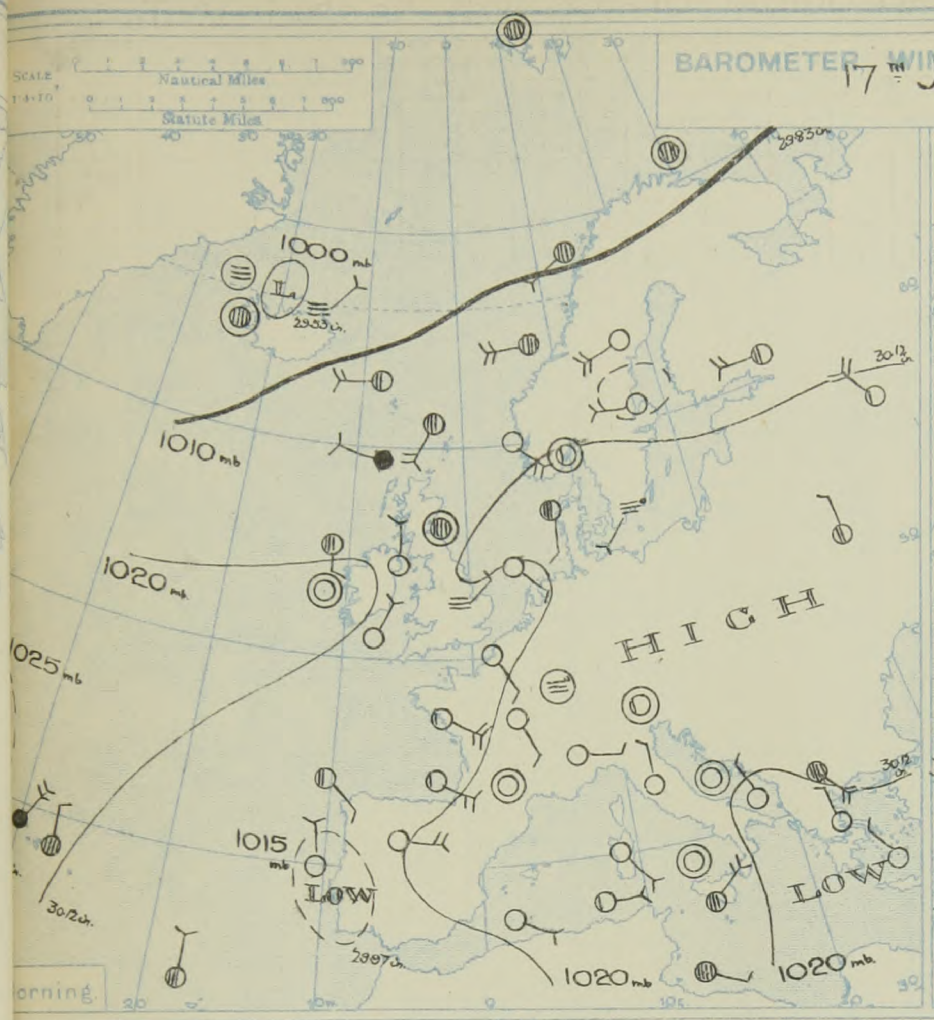
THE MORNING OF Monday. 18th JUNE, 1917.

General Inference

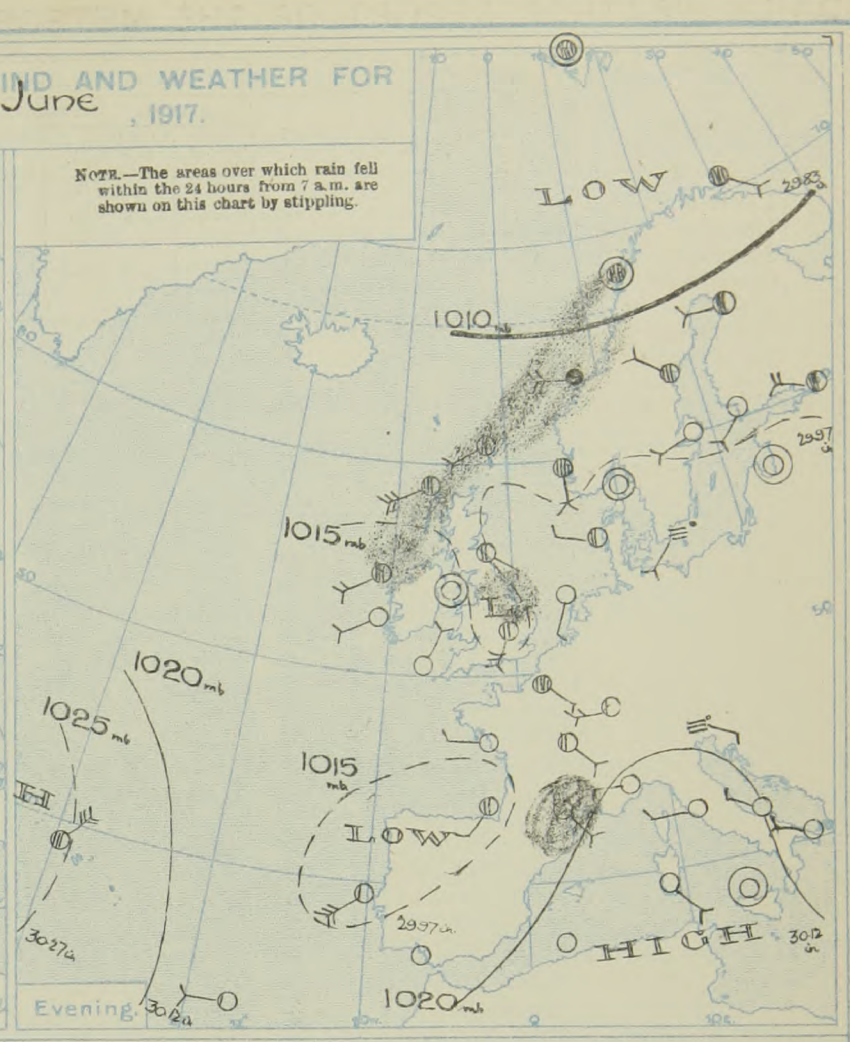
The depression in the Icelandic region will cause some extension of the unsettled weather area in the North and North-west of these Islands, but will have little or no effect on our more southern districts.

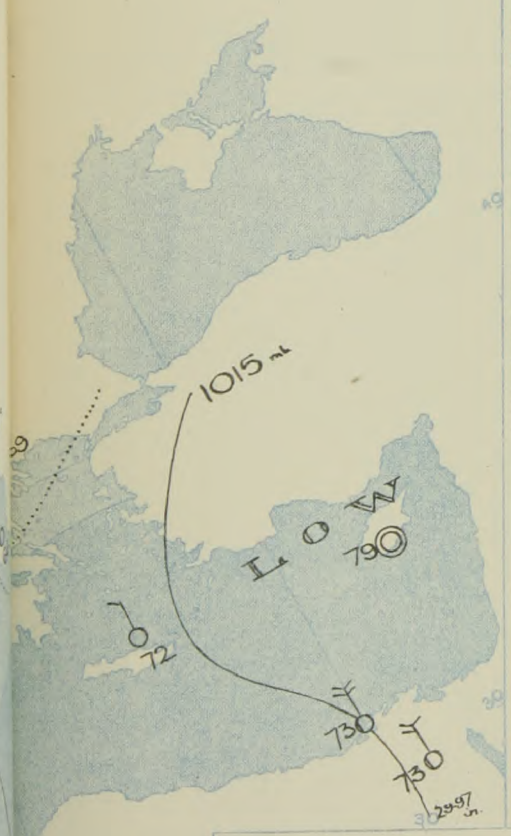


BAROMETER, WIND AND WEATHER FOR 17th June, 1917.



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





Forecasts 18h. Monday to 18h. Tuesday

0 {a, b} S. to W. winds, moderate or fresh; cloudy. some rain; moderate temperature.

1

2 {a, b} S. and SW. winds, light or moderate; fair to dull, local thunderstorms; warm.

3

4 {a, b, c} Wind SW. or variable, light; fair, but local thunderstorms still probable; warm.

5

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

7 {a, b} Wind SW. light to moderate; fair generally; moderate temperature.

8 {a, b} Wind N. to NW. or W, light; fair, local thunderstorms; moderate temperature.

9 {a, b} SW. winds, moderate or fresh; changeable, some rain; moderate temperature.

10 {a, b}

11 Variable light winds; sea smooth; fair generally, but local thunderstorms.

FURTHER OUTLOOK.

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

AB

20

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 160 { MONDAY 18th June.

	STATIONS.	EVENING OF 17th: Barom Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	MORNING OF 18th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for 17th Hours.
BRITISH ISLANDS.	Lerwick ...	1013·9	53	WSW	2	bc	1004·4	−3	51	−3	S	2	—	om	2	1	57	45	c.om	bc	cmp	*
	Deerness (Orkney)	1014·2	54	ESE	2	bc	1004·4	*	51	−3	S	5	—	r	2	2	58	49	o.c	c.bc	bc.c.or	1·9
	Stornoway ...	1013·5	57	WSW	5	cq	1002·2	−4	49	−3	S	7	—	opq	5	3	60	48	o.c	cq	opq	5·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1015·9	63	W	2	bc	1009·4	−2	54	−2	SW	4	—	omq	*	—	66	54	c.bc.cg	c.bc	c.o.bc.c	7·6
	Eskdalemuir ...	1015·0	66	WNW	4	b	1010·5	−3	54	+2	SW	4	—	ow	*	Trace	71	41	bc	bc	bw.ow	14·2
	Malin Head ...	1016·7	57	NW	1	cg	1006·6	?	56	+2	SW	4	—	omqr	4	0·4	59	53	bc	cq	omq	3·0
	Blacksod Point	1017·3	56	SW	3	cz	1008·1	−4	52	−2	SW	5	—	ofr	4	8	60	50			om.omr	*
	Valencia (Cahirciveen)	1018·4	60	WSW	2	b	1014·0	−1	55	0	SW	3	SW	c	3	—	62	54	bc.c	c.bc.b	b.bc.c.c	9·6
	Roche's Point	1017·6	62	S	3	b	1013·1	*	57	+5	W	1	—	o	2	Trace	64	50	fe.b	b	b.ow	*
	Birr Castle ...	1017·0	68	SW	1	c	1012·5	*	55	0	SW	2	—	o	*	—	69	50	c	c	c.o	6·3
	Donaghadee ...	1015·8	57	SE	2	bcm	1010·4	0	56	+1	WSW	3	W	cm	2	—	63	52	bcm	bcm	bcm.ch	*
	Liverpool (Bidston)	1016·2	61	W	2	b	1012·5	−1	61	+2	SSE	1	~	b	1	—	65	55	b	b	bw	12·9+
	Holyhead ...	1016·7	63	—	0	b	1012·3	−1	54	−2	SW	4	~	f	3	—	64	51	bz	bz	b	14·5
	Pembroke (St. Ann's)	1016·5	64	N	3	b	1013·9	0	58	+1	—	0	-	b	0	—	69	51	bc.b	b	b	14·0
	Scilly (St. Mary's)	1017·5	62	NNE	2	b	1014·5	−2	59	0	NNE	1	~	bm	3	—	64	54	b	b	b.bmc	13·8
	Falmouth ...	1016·0	66	NNW	2	b	1013·1	−1	58	−3	N	3	-	c	*	—	71	54	b.bc	bc.bcz	b.bc.c	11·0
	Jersey (St. Aubin)	1016·0	70	SSW	1	b	1013·5	*	64	−2	W	1	-	om	0	—	80	61	bm.b	b	om	13·1
	Portland Bill ...	1015·4	60	SSW	1	bc	1013·1	0	60	−4	ENE	1	W	c	2	4	67	56	bc	bc	cf tlr	*
	Dungeness ...	1014·5	72	NE	2	b	1013·4	−1	59	−4	SW	3	-	b	1	—	72	56	b	b	bcl.b	*
	Dover	1016·9	78	—	0	bz	1012·7	0	69	−5	S	2	-	b	2	—	83	57	b	b	bz	13·6
	Wick	1014·1	52	NE	2	bc	1004·6	−4	53	−1	SSW	3	-	r	2	1	61	48	omq	o.cp.bc	bc.omr	*
	Nairn	1014·0	64	WSW	1	c	1004·9	*	56	−1	SW	2	-	og	1	—	67	53	cg	bc	bc.cg	3·4
	Aberdeen ...	1015·1	56	E	1	c	1007·1	−3	59	−2	S	3	-	oz	2	Trace	68	50	o.c.o	cp.c	bc.b.oz	2·2
	Leith	1014·6	66	W	1	bc	1007·8	−2	61	+4	SW	2	SW	c	2	—	69	55	bc.c.b	b	bc.bu.c	*
	Tynemouth ...	1015·0	63	SE	1	bcm	1011·0	+1	60	−1	-	0	-	f	2	—	66	54	cm	cm	bm	*
	Spurn Head ...	1015·4	67	S	4	tlr	1012·6	−1	61	−3	W	2	-	cm	2	13	69	57	bcm	tlr	thr.c	8·5
	Yarmouth (Gorleston)	1014·9	66	SSE	3	bc	1012·1	−2	64	+1	N	1	-	bcm	1	1	70	59	bcm.b	bm.bcm	bcm.tlp	12·4
	Clacton-on-Sea	1014·8	71	ENE	1	bc	1012·5	−1	70	+5	SW	2	-	bc	1	—	74	64	bcz	bcz	bc.zl	12·8
	Nottingham ...	1014·7	70	W	1	o	1011·9	*	59	−10	SW	1	SW	cm	*	2	87	55	bc.tlr	c.tlr	o.tlr.c	7·0
	Benson (Oxon.) ...	1013·2	84	SSW	4	b	1011·2	+2	67	+2	—	0	NE	b	*	—	89	58	b	bc		*
	Sth Farnborough	1013·7	82	SSW	2	b	1012·3	−1	72	+11	SW	3	W	cw	*	—	89	60	f.bz	b.bc.bz	bcw	10·2
	London (Kew Obsy.)	1014·0	86	SSW	3	bcz	1012·6	0	68	+4	SW	2	SW	bcm	*	—	89	61	f.bm.bcz	bz.bcz	bz.bc.c	10·9
NORTHERN EUROPE.	Spitsbergen ...	1006·9	32	—	0	o	1006·7	0	30	−6	SE	1	*	f	*	*	37	27				
	Vardö	1008·2	37	SE	2	o	1008·7	+1	39	0	N	2	—	o	3	*	39	36				
	Bodö	1007·9	48	—	0	o	1008·3	0	50	0	E	1	—	c	1	19	50	45				
	Christiansund ...	1012·6	52	W	4	r	1010·4	−1	52	−2	—	0	—	b	3	12	57	48				
	Skudesnaes ..	1013·9	59	S	2	o	1010·0	−3	59	−4	SE	2	—	f	2	—	64	52				
	Færder (X'lands Fjord)																					
	The Scaw (Skagen)	1015·4	68	—	0	b	1012·8	−2	66	0	—	0	—	b	0	—	70	59				
	Blaavands Huk	1015·3	70	WNW	1	bc	1012·7	?	72	0	S	1	—	bc	?	—	77	55				
	Copenhagen ...	1017·9	75	SW	2	b	1013·5	−1	68	−4	SSW	1	—	m	*	—	81	63				
	Bornholm ...	1019·7	77	SW	2	m	1014·4	−2	72	−1	SW	4	—	m	1	—	81	70				
FRANCE, &c.	The Helder ...	1015·8	79	SW	1	b	1013·9	−2	73	+1	SSW	3	S	b	1	—	81	66				
	C. Gris Nez ...	1015·1	82	SE	1	b	1013·3	−1	65	−11	SSW	4	*	b	2	—	88	59				
	La Hève	1016·6	65	—	0	b	1014·9	*	70	0	ESE	2	*	in	5	—	88	59				
	Brest (St. Mathieu)	1016·3	67	N	1	o	1013·5	−1	63	+2	N	1	*	bc	1	Trace	75	57				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1014·7	87	SW	1	bc	1013·3	−2	77	+4	E	2	*	b	1	—	91	64				
	Paris	1016·6	79	SSE	1	o	1015·1	−1	73	+1	SSE	1	SW	b	*	—	90	64				
	Belfort	1019·4	79	W	4	b	1019·7	*	68	+1	WSW	2	*	m	*	—	86	60				
	Lyons	1018·1	78	SSE	2	bc	1018·1	*	67	−3	SSE	1	*	b	*	—	87	58				
	Nice	1020·7	69	W	1	b	1019·7	0	69	−1	—	0	*	b	0	—	81	61				
	Perpignan ...	1017·9	77	SE	2	b	1017·7	−1	.86	+14	SSW	1	—	c	*	30	90	59				
	Sanguinaire ...	1021·0	72	N	1	bc	1020·7	*	74		E	1	*	m	1	—	84	66				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon	1014·7	66	SW	5	b	1016·4	0	64	−8	S	1	—	b	2	—	79	63				
	Azores (Horta) ...	1025·1	*	NNE	5	c	1025·9	+1	58	−1	—	0	*	o	2	1	64	55				
	Madeira	1018·6	72	W	2	b	1018·9	−2	64	0	WNW	1	N	o	1	—	72	64				
	Gibraltar	1018·3	70	E	4	m	1017·9	*	69		E	2	*	m	1	—	76	65				
	Malta	*	*	*	*	*	1020·6	+2	72	+1	N	1	—	bc	0	—	75	66				
	Limassol	*	*	*	*	*	1010·4	0	79	−5	—	0	—	b	0	—	82	59				
	Alexandria ...	1015·7	72	NNE	3	bc	1015·7	0	73	−2	N	4	N	b	3	—	86	70				
	Cairo (Helwan) ...	1013·0	86	N	3	b	1014·1	+1	73	−4	N	3	N	b	*	—	100	70				

LONDON OBSERVATIONS.

	Humidity. 15 h. 17th %	Humidity. 9 h. 18th %	Sunshine for 17th Hours.	24 Hours ended 9 h. 18th. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	31	62	11·4	93	59	—	—	bc	bc	bc
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	41	?	10·9	89	62	—	—	bm.bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	-	66	10·1	90	62	59	—	.	.	*
HAMPSTEAD (Reservoir)	*	77	10·4	86	63	51	—	bc	bc	bc
S. KENSINGTON (Museum Grounds)	*		9·7	84	66	57	-	bc.oz	c.bc	bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 17th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1516	25·4	59

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

RAINFALL

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,298 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Tuesday 19th June

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Monday 18th JUNE 1917.

Day temperature did not rise to the same high level as on Sunday, but 82° was reached at Nottingham and Farnborough. Thunderstorms were again experienced at several stations, 24 mm. of rain being measured at Yarmouth. Sunshine measurements were variable.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Monday 18th JUNE UP TO 17 H.

	STATIONS.	Sunshine for 17th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 12 h. 18th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	3·9	Trace	Trace	56	53	r.o.bc	bc.c	0·8
	Banff	1·5	1	–	66	50	r.o.c	c	1·3
	Montrose	3·3	*	*	70	45	b	b	1·0
	St. Andrews		–	–	64	53	o	c	2·2
	Carnoustie		–	–	62	58	o.c§p	c.o	2·0
Eng. N.E.	Harrogate	1·7	–	–	73	73	b	b	12·5
	Skegness	10·1	1	–	78	56	bc	o	5·6
Eng. N.W.	Morecambe	–	–	–	66	50	–	–	10·5
	Southport	13·2	–	–	66	50	b	b	11·5
Midlands.	Leamington Spa								
	Malvern		–	–	78	59	bc	bc.b	12·0
	Ross-on-Wye	11·4	–	–	80	55	b	b	12·3
Wales.	Rhyl	10·5	–	–	68	48	b	b	12·0
	Colwyn Bay								
	Llandudno	*	*	*	68	49	b	b	12·3
	Aberystwyth		*	*					
England. E.	Lowestoft	13·0	Trace	12	77	59	bc.c	c.o.tlr	6·7
	Felixstowe		–	2	80	61	bc	bc.tlr	9·2
	Walton-on-Naze								
	Southend-on-Sea	12·4	–	–	87	64	b	b.bc.c.o	6·0
England, S.E.	Margate		–	–	84	63	b	b.bc.c	9·7
	Hastings	15·1	*	*	79	59	b.bc	bc.b	7·4
	Eastbourne	14·5	–	–	78	60	b	bc.o.c	7·7
	Seaford	13·8	–	–	77	54	bc	bc	6·4
	Brighton	10·1	–	–	69	57	bc	bc	3·6
	Worthing	14·4	–	–	75	57	b.bc	bc.c	6·9
	Littlehampton		–	–	71	58			7·5
	Bognor								
	Bournemouth	12·7	*	*	74	59	tlr	b	5·0
England, S.W.	Weymouth		*	*	70	60	c.tlr	p.b.pez	3·5
	Torquay	11·3	Trace	–	78	64	o.c.bc.b	b	7·6
	Paignton								
	Penzance		–	–	72	56	b.bc	bc	9·4
	Newquay	10·3	–	–	64	50	§.b	b.o.c	6·6
	Bude								
	Ilfracombe		–	–	68	56	bz	bz	10·2
	Weston-s-Mare		*	*	70	59	bc.b		8·3

REPORTS FROM FOREIGN STATIONS FOR Monday 18th JUNE

	STATIONS.	Evening of 17th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 18th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
Russia. 7 a.m. and 9 p.m. Local Time.	Archangel	1006·0	54	E	3	0	1004·2	+2	54	–1	N	2	0	5	*	50
	Gorki	1020·2	70	–	0	b	1019·8		64	0	ESE	1	b	–	*	52
	Velieki Luki	1017·9	70	SSW	1	b	1017·1	*	73	0	SSW	1	b	–	*	61
	Hangö	1014·3	59	WSW	2	b	1012·8	–3	55	–2	WSW	2	bc	–	*	52
	Riga	1019·7	73	–	0	b	1017·9	–1	73	0	–	0	b	–	*	61
	Petrograd	1012·6	66	WNW	3	c	1013·1	+1	64	0	W	3	bc	–	79	61
	Moscow	1016·7	70	SW	2	b	1014·7	+1	66	+3	W	3	o	–	*	61
	Kiev	1021·1	64	NW	4	c	1019·7	0	66	+2	NNE	3	b	1	*	59
	Kharkov	1019·0	55	WNW	1	b	1019·1	0	63	0	–	0	b	–	*	57
	Kishinev														*	
	Elisabetgrad	1020·3	68	ESE	1	o	1018·3	–1	70	0	NW	2	bc	–	*	61
	Nicolaiev	1020·4	66	–	0	b	1019·3	*	64	0	–	0	b	–	*	59
	Odessa	1020·8	68	E	2	b	1019·0	0	66	0	NNE	2	c	–	*	61
	Tarkhankout						1017·5	*	73	0	–	0	bc	60?	*	59
	Soukhoum														*	
Mediterranean.	Venice	1019·5	75	SW	1	m	1018·5	*	75	+2	NE	1	m	–	81	68
	Pesaro						1019·0	*	72	+2	NW	1	b	–	79	57
	Rome	1020·7	68	W	1	b	1020·6	*	72	0	WSW	1	b	–	81	63
	Viesti	1020·9	70	WNW	1	b	1018·9	*	73	+1	WNW	4	b	–	77	66
	Brindisi	1017·9	68	NW	2	b	1018·5	*	66	+2	W	2	b	–	73	64
	Cagliari	1021·3	72	SE	2	b	1020·3	*	72	–1	NW	3	o	–	79	55
	Palermo	1021·1	75	–	0	b	1019·7	*	75	+3	–	0	b	–	79	55
	Tripoli							*								
	Algiers															
Sweden.	Hernösand	1013·6	52	NW	2	c	1008·6	*	57	–6	–	0	c	*	*	*
	Stockholm	1015·6	81	WSW	2	b	1011·5	*	73	+5	SW	2	bc	*	*	*
	Wisby	1016·8	73	SW	4	b	1014·1	*	72	+2	WSW	2	o	*	*	*

Morning of 18th

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1001·7	39	–4	N	7	8
Reykjavik	994·6	48	+2	N	3	c
Vestmanna						
Seydisfjord	995·0	52	+9		0	8
Thorshavn	994·1	48	–3	S	5	r

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

19th and 20th June 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·31 / 3·31	11·54 / 11·54	8·17 / 8·17
Greenwich	3·44 / 3·44	12·1 / 12·1	8·18 / 8·18
Wick	3·7 / 3·7	12·15 / 12·13	9·19 / 9·19
Valencia	4·22 / 4·22	12·42 / 12·42	9·2 / 9·2

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

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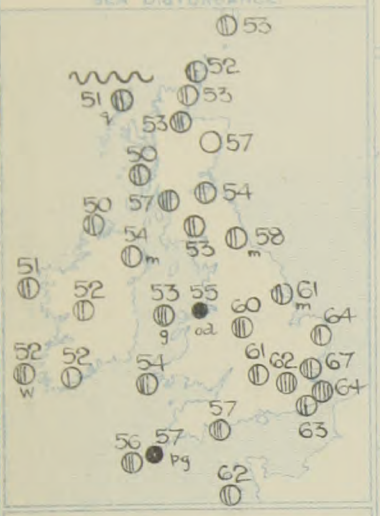
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Tuesday, 19th JUNE, 1917.

General Inference

No important change in the general conditions is expected.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈.

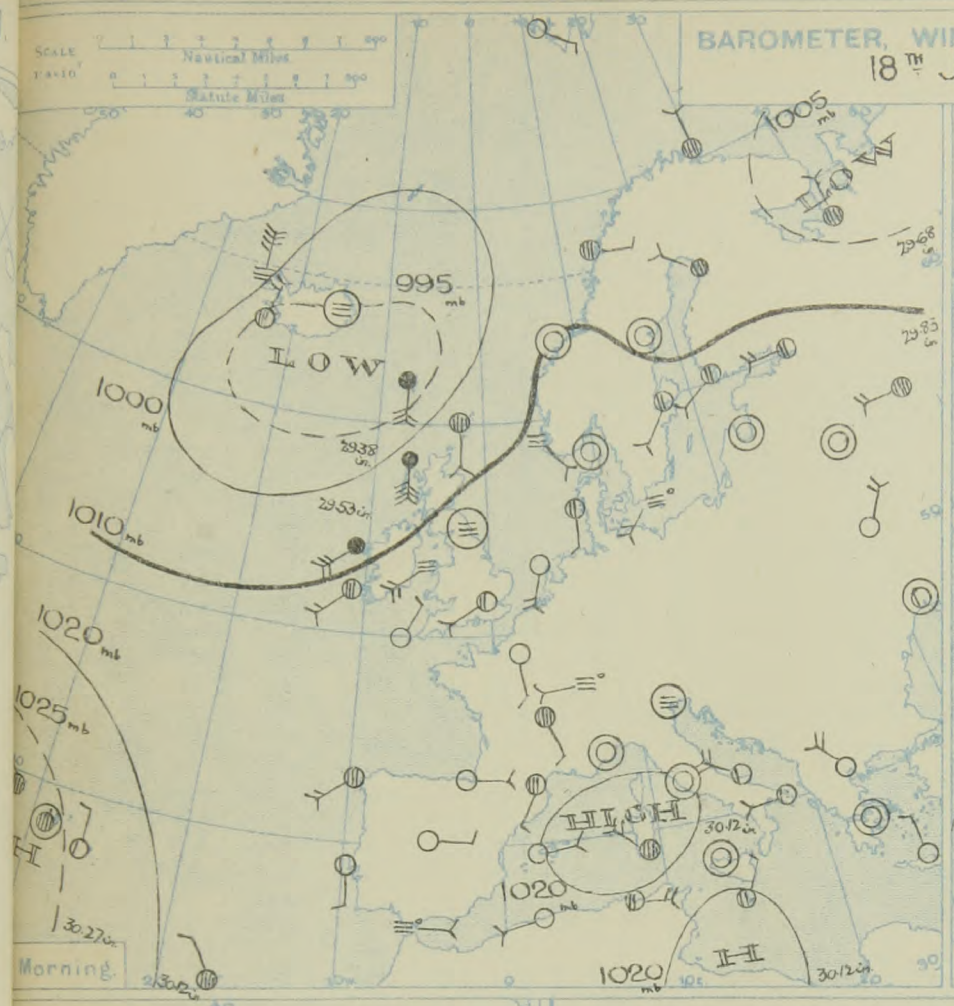
Normal Temperature of the Sea.

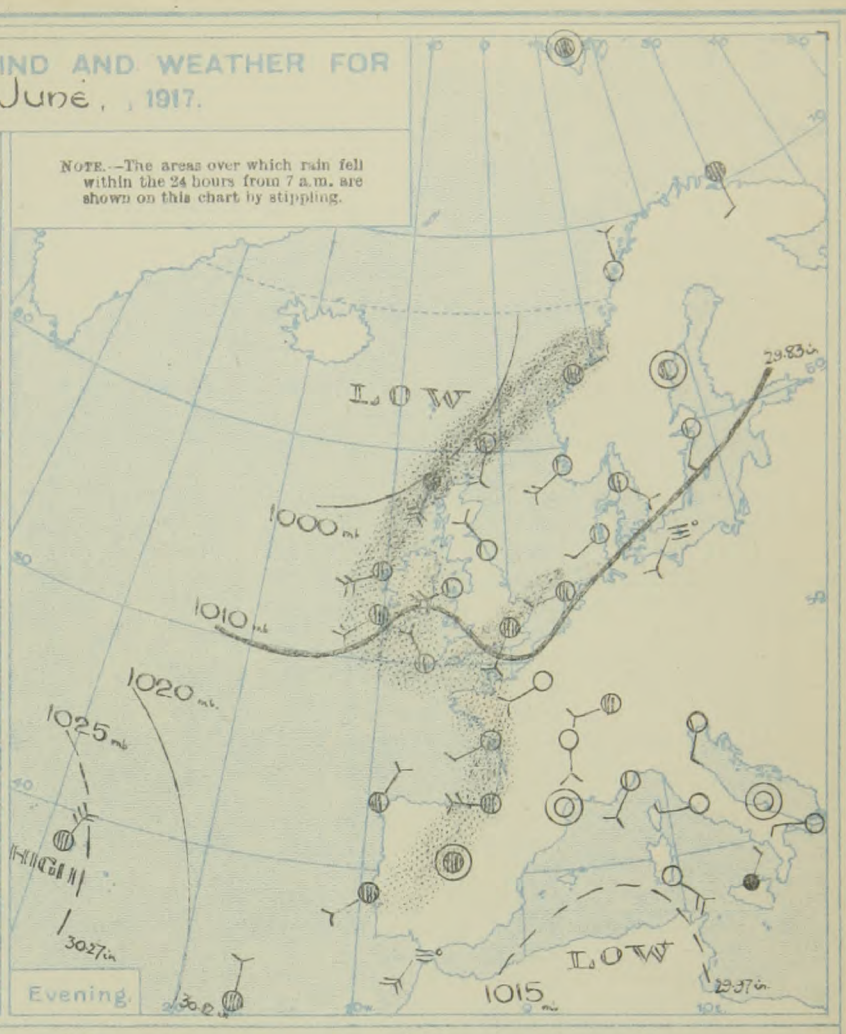
Below 50° | 50°-60° | 60°-70° | Above 70°

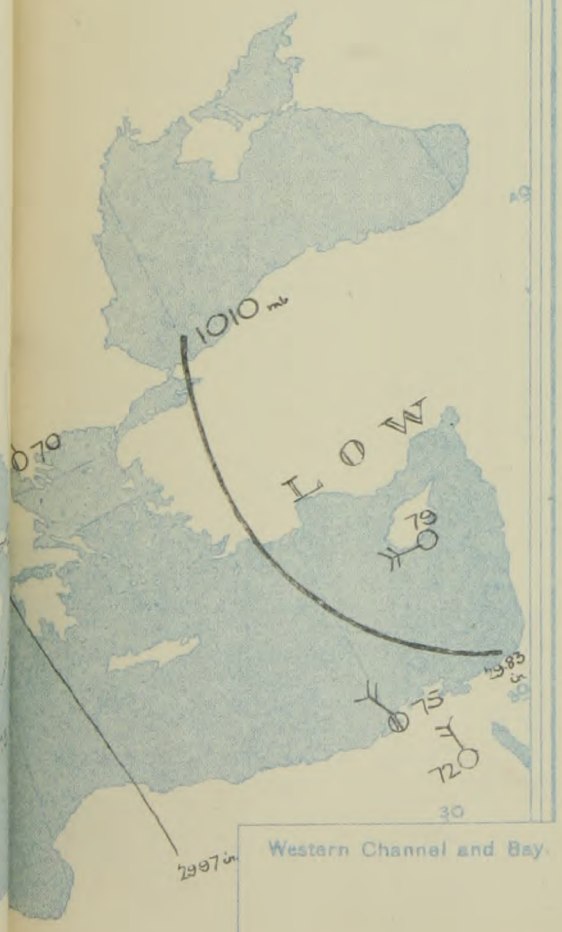
Scale of Tints for JUNE.

HIGH
LOW
Barometer
Changing
Bar. falling slightly
LOW
HIGH
LOW
Little
1010 mb
1005 mb
1000 mb
995 mb
1007·5 mb
1010 mb
1015 mb
1020 mb
1025 mb
29·83 in.
29·68 in.
29·76 in.
29·83 in.
29·38 in.
29·53 in.
29·97 in.
30·27 in.
30·12 in.
40°
50°
60°
70°

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







Forecasts 18h. Tuesday to 18h. Wednesday

0 (a, b) } Moderate SW. winds. Fair generally but some
1 } showers. Moderate temperature.

2 (a, b)
3
4 (a, b, c) } Light winds chiefly W. Fair but thunder-
5 } storms not imporbable. Hot.

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

7 (a, b) } Moderate SW. winds; fair generally, but
} some showers and perhaps thunder; rather warm.

8 (a, b) As Nos. 2, 3, 4 and 5.

9 (a, b)
10 (a, b) } Same as No. 7

11 { Light winds chiefly between SW. and NW;
smooth sea, fair, some thunder.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 170. Tuesday 19th June

	STATIONS.	EVENING OF 18th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 19th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 18th Hours.
BRITISH ISLANDS.	Lerwick ...	1000·9	53	SSW	3	bc	1008·5	0	53	+2	SSW	2	SW	bc	2	3	57	48	omp	bc	om.bc	*
	Deerness (Orkney)	1001·7	58	W	2	ba	1000·3	*	52	+1	W	3	W	bc	2	3	59	48	r. o	o.c.bc	bc	5·3
	Stornoway ...	1000·0	53	SSW	5	opqr	1099·8	0	51	+2	SW	6	–	bcq	5	11	57	48	or.cq	c.opqe	bcpq	1·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1005·7	57	SW	4	omr	1005·8	0	57	+3	SW	2	SW	c	*	0·3	60	47	op.om	o.cm	bcbm	1·6
	Eskdalemuir ...	1006·8	55	SW	4	o	1004·4	+1	53	−1	SW	2	–	bc	*	–	61	46	o	o	o.od.bc	0·9
	Malin Head ...	1004·0	56	WSW	2	bc	1002·9	?	50	−6	SW	3	SW	bc	3	9	58	48	omp	bc	bcp	1·6
	Blacksod Point	1006·1	54	WSW	4	bcl	1003·9	−1	51	−1	WNW	2	NW	bc	2	1	57	48	bc	bc	bc	*
	Valencia (Cahirciveen)	1009·7	56	SW	3	o	1007·0	−1	52	−3	SW	1	SW	cw	3	4	60	50	c. or	od	c.b.bcw	1·7
	Roche's Point	1010·4	60	SW	3	c	1007·5	*	52	−5	NW	1	SW	b	1	–	65	50	c. bc	bc. c	ob	10·2
	Birr Castle ...	1008·3	57	SW	1	o	1006·2	*	52	−3	SW	1	SW	bc	*	1	59	46	or	or. o	c. bc	2·2
	Donaghadee ...	1006·4	59	WSW	4	ogmr	1004·9	0	54	−2	SW	3	SW	bcm	2	1	62	47	cmp	cmq	bcm	*
	Liverpool (Bidston)	1008·0	61	WNW	1	b	1006·3	0	55	−6	WSW	2	W	od	1	0·3	66	54	b	b	o. od	13·5
	Holyhead ...	1008·6	58	WSW	4	b	1005·9	0	53	−1	WNW	4	NW	cg	3	–	63	53	bf cf	bf. b	bed.c	8·1
	Pembroke (St. Ann's)	1010·7	57	WSW	2	bc	1007·8	0	54	−4	–	0	W	c	0	7	61	53	b. bf	bf	bc. bc.p	9·1
	Scilly (St. Mary's)	1012·2	61	NW	2	bc	1008·7	−1	56	−3	–	0	NW	c	3	5	67	52	b	b	bcp.c	12·8
	Falmouth ...	1010·6	63	NNW	3	bz	1007·5	−2	57	−1	–	0	–	pq	*	2	74	55	b	d.bc	br.o	9·3
	Jersey (St. Aubin)	1010·9	68	WNW	3	b	1007·7	*	62	−2	NW	2	NW	bc	1	Trace	77	59	cp.b	bctl	bc	9·3
	Portland Bill ...	1010·0	60	SW	2	bc	1007·3	−2	57	−3	–	0	–	c	2	4	62	56	tlr	c.bc	bcl.c	*
	Dungeness ...	1009·0	64	SW	2	b	1006·7	−1	62	+3	SE	2	SE	bc	2	–	73	56	b	bc	b.bc	*
	Dover	?	65	NNE	1	c	1007·1	−4	64	−5	NW	1	NW	o	2	–	80	55	b	bc	oz	8·9
	Wick	1001·1	58	SSW	2	c	1000·6	+2	53	0	W	2	–	bc	2	2	62	49	omq	oq	bcz	*
	Nairn	1001·8	62	WSW	3	bc	1001·4	*	53	−3	W	1	–	c	1	–	65	46	c. bcq	bcq	bc	7·5
	Aberdeen ...	1003·4	62	SSW	3	c	1002·4	0	57	−2	SSW	3	–	b	2	–	66	51	oz.c	c.o.c	bc.b	1·5
	Leith	1005·2	62	SW	2	c	1003·1	0	54	−7	W	2	S	bc	2	–	64	51	c.o.c.bc	bc.c.o.c	cu.c.bc	*
	Tynemouth ...	1006·8	68	NW	2	b	1004·8	0	58	−2	W	1	W	bcm	2	–	73	53	bcm	bcm	bcm	*
	Spurn Head ...	1007·2	62	NNE	4	bcm	1006·0	0	61	0	NW	3	–	bcm	3	–	72	58	cm	bcm	bm	7·9
	Yarmouth (Gorleston)	1009·0	64	SSE	2	bc	1006·4	0	64	8	W	3	SW	bc	2	24	70	58	bm	bcptl	r.bc	6·6
	Clacton-on-Sea	1009·4	73	SSW	1	o	1006·8	0	67	−3	SW	3	SW	c	2	0·1	79	63	bcz	bc. ctp	o.c	8·7
	Nottingham ...	1007·0	78	W	2	b	1006·2	*	60	+1	W	2	SW	c	*	–	82	52	b	b	bc. c	11·3
	Benson (Oxon.) ...	1007·9	71	SSW	3	c	1006·3	−1	61	−6	SSW	1	SW	bc	*	7	73	56	otlr	tr		*
	Sth Farnborough	1008·3	72	SW	2	c	1006·7	+1	70	−2	W	2	S	cw	*	16	82	51	pc.oqtlr	tlr.o.bc	c.o.cw	4·9
	London (Kew Obsy.)	1008·6	72	SSW	2	o	1007·1	+1	62	−6	SW	2	SW	o	*	14	79	59	bcm.otlr	tlr. o	cobc.b	5·5
NORTHERN EUROPE.	Spitsbergen ...	1006·0	34	–	0	b	1007·1	+1	36	+6	–	0	*	0	*	*	34	28				
	Vardö	1010·4	39	S	1	o	1009·6	0	45	+6	–	0	–	f	2	*	45	36				
	Bodö	1008·0	50	N	1	b	1006·0	+1	57	+7	–	0	–	bc	0	?	57	46				
	Christiansund ...	1003·1	59	NE	1	o	1003·0	−1	61	+9	NE	1	–	b	3	1	61	52				
	Skudesnaes ..	1006·9	61	SW	3	b	1004·0	−1	57	−2	SE	5	–	m	3	–	64	55				
	Færder (X'tania Fjord)	1006·7	66	SSE	1	bc	1005·5	−1	64		SW	2	–	o	1	–	68	63				
	The Scaw (Skagen)	1006·7	68	SE	2	bc	1006·9	+1	66	0	–	0	–	o	0	–	70	59				
	Blaavands Huk	1009·6	73	SW	1	b	1008·4	?	64	−8	WSW	1	–	c	?	Trace	71	61				
	Copenhagen ...	1010·4	77	WSW	2	b	1008·6	+1	70	+2	W	2	–	m	*	–	82	64				
	Bornholm ...	1012·6	73	SW	2	m	1009·7	+1	73	+1	SSW	3	–	m	1	–	79	70				
FRANCE, &c.	The Helder ...	1009·7	66	WSW	1	c	1007·3	−1	66	−7	SSW	4	–	b	2	3	75	61				
	C. Gris Nez ...	1010·1	70	SSW	2	c	1006·9	−4	66	+1	SE	2	*	bc	2	2	82	59				
	La Hève	1010·1	72	WSW	2	tlr	1007·0	*	64	−6	ESE	3	*	m	2	–	86	64				
	Brest (St. Mathieu)	1011·4	64	NW	3	c	1007·0	−3	60	−3	NNW	1	*	bc	1	–	77	57				
	Rochefort (Ile d'Aix)	1010·9	79	SW	1	b	1009·7	+1	66		SSW	5	*	tlr	*	1	93	64				
	Biarritz	1011·8	71	W	3	c	1009·2	−1	70	−7	E	2	*	b	1	1	86	63				
	Paris	1010·4	81	W	2	b	1008·3	0	73	0	SSW	3	SW	b	*	–	88	64				
	Belfort	1011·7	76	WSW	2	c	1011·1	*	72	+4	W	2	*	m	*	–	88	59				
	Lyons	1012·7	78	S	2	b	1013·3	*	67	0	SSE	1	*	b	*	–	84	56				
	Nice	1016·4	70	SW	2	b	1016·7	0	71	+2	SW	1	*	b	1	–	79	59				
	Perpignan ...	1013·1	82	–	0	b	1012·3	0	70	−16	NE	1	SW	b	*	–	86	57				
	Sanguinaire ...	1018·6	76	NW	3	b	1016·7	*	70	−4	E	2	*	b	2	–	86	63				
SOUTHERN STATIONS.	Corunna	1013·0	66	NNE	2	c	1010·1	−1	66		–	0	S	c	1	?	70	59				
	Madrid	1010·9	79	–	0	o	1010·9	0	?86	+16	WSW	1	–	c	*	?	86	63				
	Lisbon	1013·9	68	SSW	4	c	1011·8	0	63	−1	SW	2	–	o	2	1	72	61				
	Azores (Horta) ...	1025·1	*	NNE	5	c	1024·7	−1	59	+1	NNE	4	*	o	2	–	64	59				
	Madeira	1017·6	72	N	2	o	1018·6	0	63	−1	NW	2	–	bc	2	–	73	63				
	Gibraltar	1015·2	68	SW	4	m	1014·5	*	66	−3	W	5	*	b	4	–	76	63				
	Malta	*	*	*	*	*	1017·5	+1	73	+1	WNW	1	–	b	0	–	79	66				
	Limassol	*	*	*	*	*	1006·6	0	79	0	W	4	–	b	4	–	86	64				
	Alexandria ...	1013·2	72	N	4	b	1013·5	+1	75	+2	NNW	3	NW	bc	2	–	84	68				
	Cairo (Helwan) ...	1011·3	79	N	3	b	1012·3	+2	72	−1	N	3	–	b	*	–	93	66				

GALES.
Duration and Extreme Force in British Islands.

NOTE

Solar Halo was observed at South Farnborough this morning at 6.10h.

LONDON OBSERVATIONS.	Humidity. 15 h. 18th %	Humidity. 9 h. 19th %	Sunshine for 18th Hours.	24 Hours ended 9 h. 19th. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	63	50	6·7	87	58	47	3	b.bc	or.tlr	c.o.dtl
CITY (Bunhill Row)	*	*	5·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	74	62	6·2	83	60	56	9	be.tlrh	bc	bc
CAMDEN SQ. (British Rainfall) ..	69	52	6·2	85	60	58	12	b	ortl	*
HAMPSTEAD (Reservoir)	*	58	5·9	78	57	48	16	betlrh	bc	bc
S. KENSINGTON (Museum Grounds)	*	64	5·6	72	59	55	10	otlrh	c	bc.c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 18th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
?1440	24·1	?73

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

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

Issue No. 20,393. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Wednesday 20th June.

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

Steady rain fell at Scilly, where 23 mm was measured. Thunderstorms were reported from a few stations in the south of the country. Temperature exceeded 70° in the south-east, and touched 75° at Southend.

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

	STATIONS.	Sunshine for	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h.
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0.8	Trace	-	58	50	bc	bc	10.6
	Banff	3.2	-	-	66	45	bc	bc	12.1
	Montrose	1.5	*	*	63	48	b	b	9.3
	St. Andrews	2.8	-	-	66	48	b	b.c	10.4
	Carnoustie	*	*	*	64	55	c.d	b	11.0
Eng. N.E.	Harrogate	15.0	-	1	63	51	bcp.c.o	or	1.1
	Skegness	3.7	-	-	70	58	bc	bc	4.7
Eng. N.W.	Morecambe	12.9	-	-	61	54	-	-	2.5
	Southport	13.5	-	2	59	54	o.c.o	or	0.1
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	14.0	-	4	66	50	b.bc.c	or	0.4
Wales.	Rhyl	14.6	-	3	58	49	bc.c	op	0.1
	Colwyn Bay	*	*	*	58	55	c	c	0.7
	Llandudno	*	*	*	59	55	c	c	0.1
	Aberystwyth	*	*	*	65	55	o.c	or	0.5
England. E.	Lowestoft	6.7	11	-	71	57	bc.c.o.c	c.o.c	5.0
	Felixstowe	9.2	Trace	-	73	62	bc	bc	4.8
	Walton-on-Naze								
	Southend-on-Sea	6.1	Trace	19	75	62	o	o.b.r	2.4
England. S.E.	Margate	9.8	-	-	74	62	c.bc.c	c	3.8
	Hastings	8.3	*	*	62	56	o.bc	bc.o	4.4
	Eastbourne	8.0	-	1	70	59	o.bc	or.bc.o	2.3
	Seaford								
	Brighton	4.0	-	6	65	56	c	r.b.r.o	3.0
	Worthing	15.5	-	1	71	57	bc.c	c.bc	3.7
	Littlehampton								
	Bognor								
	Bournemouth	5.5	*	*	68	55	r.c	bc	6.0
England. S.W.	Weymouth		*	*					
	Torquay	8.0	3	1	?75	56	bcp.o	o.c.p	0.5
	Paignton								
	Penzance	11.6	5	3	59	56	c.or	or	0.0
	Newquay	8.4	2	2	60	55	op	op	0.0
	Bude		-	2	61	56	m.d	m.d	0.0
	Ilfracombe	11.5	-	1	59	54	m.r	r	6.0
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Tuesday, 19th June

	STATIONS.	Evening of 19th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 19th: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1007.4	53	ENE	1	bc	1010.6	+3	45	-9	NE	1	b	1	*	37
	Gorki	1014.6	72	-	0	bc	1013.5	-	68	+4	-	0	bc	-	*	54
	Velieki Luki	1012.7	70	S	2	b	1013.1	*	73	0	-	0	b	-	*	61
	Hangö	1010.6	57	WSW	2	b	1010.6	+1	57	+2	SW	1	b	8	*	50
	Riga	1013.6	72	-	0	bc	1012.8	0	72	-1	-	0	b	-	*	64
	Petrograd	1008.2	66	WSW	2	bc	1011.1	+2	64	0	NW	1	b	-	75	59
	Moscow	1011.0	72	WNW	3	b	1009.9	-1	66	0	W	1	bc	-	*	55
	Kiev	1015.1	70	-	0	bc	1014.3	0	70	+4	NE	1	b	-	*	59
	Kharkov	1014.4	66	-	0	b	1014.4	0	66	+3	-	0	b	-	*	54
	Kishinev						?1020.2	+1	63		NW	2	bc	2	*	57
	Elisabetgrad	1014.9	64	NW	2	bc	1013.2	+1	68	-2	-	0	bc	-	*	55
	Nicolaiev	1013.9	68	NW	2	c	1012.8	*	64	0	-	0	bc	-	*	59
	Odessa	1014.0	68	ENE	4	o	1013.2	+1	68	+2	NNE	3	o	-	*	63
	Tarkhankout						1009.5	*	68	-5	NNE	2	c	2	*	59
	Soukhoum														*	
Mediterranean.	Venice	1015.4	75	SSW	1	b	1015.4	*	73	-2	E	1	m	Trace	81	68
	Pesaro	1016.2	75	SW	2	bc	1016.3	*	73	+1	S	1	b	-	81	66
	Rome	1018.2	73	W	1	b	1017.4	*	72	0	NE	1	b	-	84	63
	Viesti	1017.8	73	NW	1	b	1016.9	*	73	+2	-	0	m	-	79	68
	Brindisi	1016.3	70	NW	1	b	1016.2	*	70	+4	NW	1	b	-	70	68
	Cagliari	1015.9	81	SE	3	b	1016.2	*	73	+1	SE	3	b	-	81	59
	Palermo	1018.5	82	NE	2	r	1018.1	*	68	-7	-	0	b	-	77	55
	Tripoli						1019.7	*	75		ESE	1	b	-	77	66
	Algiers															
Sweden.	Hernösand	1009.2	55	-	0	bc	1007.3	*	59	+2	-	0	b	*	*	*
	Stockholm	1008.4	81	SSW	2	b	1008.7	*	79	+6	S	2	b	*	*	*
	Wisby	1010.6	68	SSW	2	b	1009.4	*	77	+5	SW	2	b	*	*	*

Morning of 19th

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1009.3	43	+4	NE	3	c
Reykjavik	1003.8	41	-7	NNE	4	o
Vestmanna						
Seydisfjord	998.3	39	-13	NE	6	r
Thorshavn	995.5	50	+2	W	4	o

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

20th & 21st June, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.31 / 3.31	11.54 / 11.54	8.17 / 8.17
Greenwich	3.44 / 3.44	12.1 / 12.1	8.18 / 8.18
Wick	3.7 / 3.7	12.13 / 12.13	9.19 / 9.19
Valencia	4.22 / 4.22	12.42 / 12.42	9.2 / 9.2

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

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF Wednesday, 20th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

General Inference

No material change in the general conditions is anticipated.

EXPLANATION.

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

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

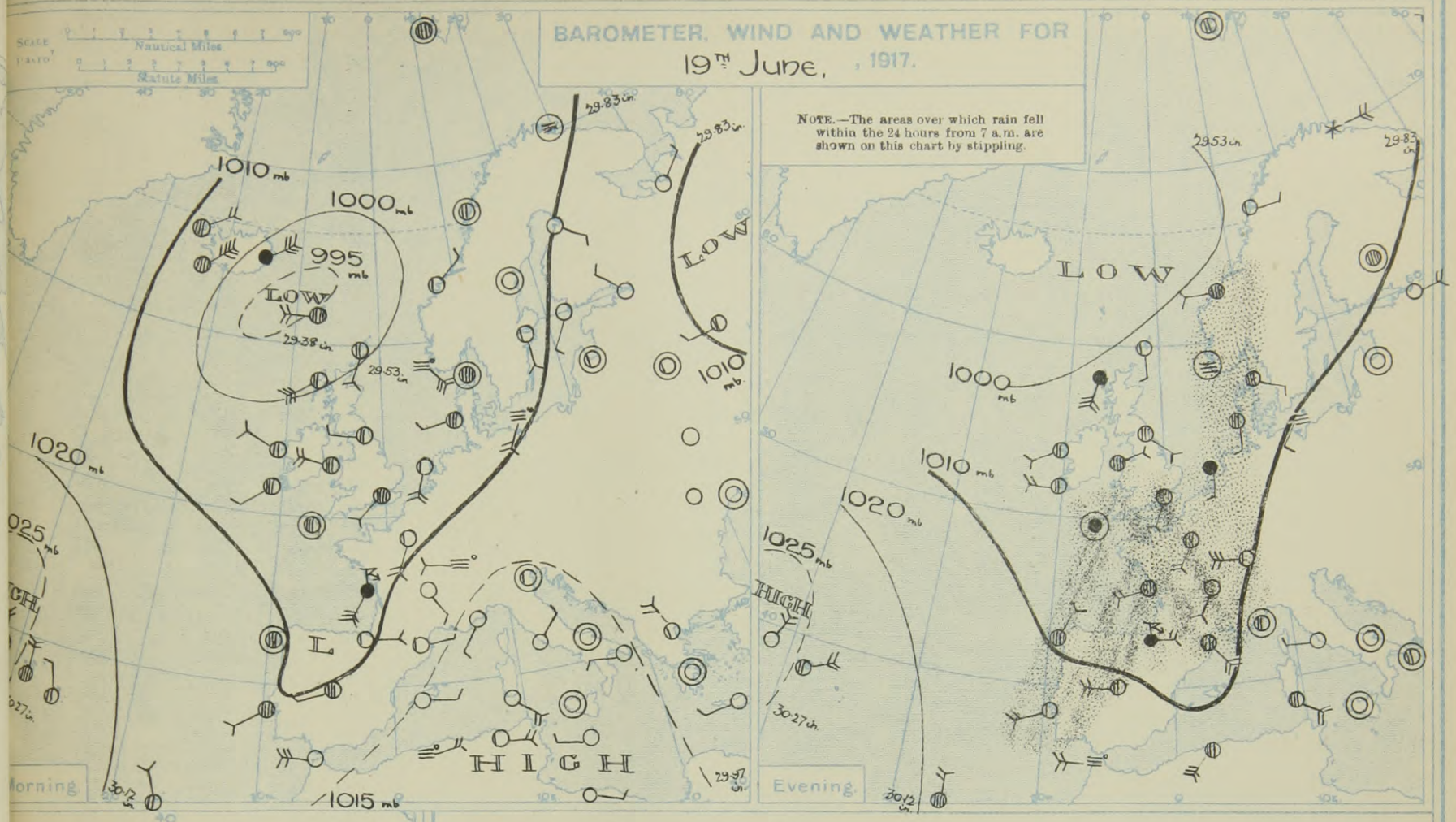
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

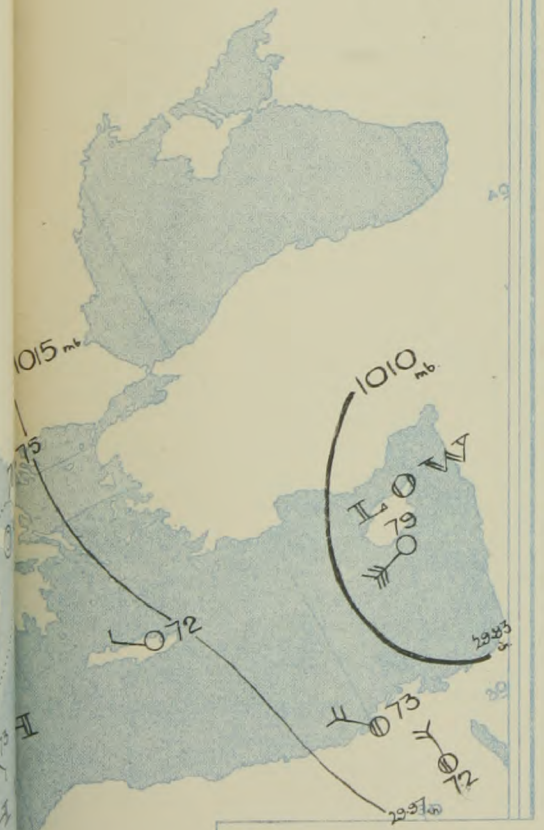
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. T, thunder.
K, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

Barometer changes slight and irregular

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





Western Channel and Bay.

Forecasts 18h. Wednesday to 18h. Thursday

0{a,b} 1 — Light indefinite winds. Unsettled; rather warm.

2{a,b} 3 — Light indefinite winds; unsettled, tendency for thunderstorms; rather warm.

4{a,b,c} 5 — Light or moderate S. winds, tendency for thunderstorms; rather warm.

6{a,b} — Same as Nos. 0, 1, and 2

7{a,b} 8{a,b} — Same as Nos. 3 and 4

9{a,b} 10{a,b} — Light indefinite winds; showery; rather warm.

11 — Light or moderate winds, indefinite direction; slight or moderate sea; tendency for thunderstorms.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 171. {Wednesday. 20th June.

	STATIONS.	EVENING OF 19th					MORNING OF 20th									24 HOURS ENDED 7 A.M.						Sunshine for 19th
		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 ...	1002·2	53	S	1	b	1003·7	0	52	−1	SE	2	-	om	2	0·2	58	49	bc	bc.b	bc.om	*
	Deerness (Orkney)	1002·7	52	SE	3	c	1003·7	*	52	0	NW	3	-	o	2	-	59	46	bc.b	b.bc.c	c.o	9.8
	Stornoway ...	1001·3	54	SSW	5	bcpq	1003·2	0	52	+1	SSW	2	-	bc	1	1	58	44	bcq	bcpq	b.bc	13·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1005·5	57	W	2	bc	1004·1	+1	51	−6	W	1	S	bcq	*	-	61	46	c.bc.c	c	bc.b.bc	6.8
	Eskdalemuir ...	1003·3	58	SW	3	o	1003·8	0	51	−2	-	o	SW	bcw	*	-	61	45	bc.c	c	o.c.bc	11·8
	Malin Head ...	1002·5	55	NW	4	bc	1004·1		50	0	WSW	2	S	bc	2	-	57	46	bc	bc	bc	14·0
	Blacksod Point	1003·5	55	WSW	2	bc	1004·8	0	50	−1	WNW	1	-	bc	1	-	57	46	bc	bc	bc	*
	Valencia (Cahirciveen)	1003·8	57	W	3	bc	1004·7	+2	52	0	NE	2	-	c	3	-	58	49	c.o.c	c.bc	c	5·1
	Roche's Point	1004·0	60	SSW	2	bc	1003·8	*	52	0	NNW	2	-	p	2	0·4	63	51	bc.o	o.bc	c.op	*
	Birr Castle ...	1003·2	60	W	1	c	1004·2	*	51	−1	NW	2	-	o	*	-	61	45	c	c	o	5·8
	Donaghadee ...	1003·0	58	SSW	3	bcm	1004·0	+2	50	−4	N	3	-	cm	2	-	62	47	bcm	bcm	cgm.cm	*
	Liverpool (Bidston)	1003·9	54	NNW	1	r	1003·2	0	55	0	-	o	-	o	1	2	59	52	o	or	op.o	0.1
	Holyhead ...	1003·7	57	ENE	2	og	1003·1	0	54	+1	ENE	3	-	bc	2	-	60	51	c.o	c.o	c.o.bc	1·8
	Pembroke (St. Ann's)	1004·0	58	—	0	or	1002·7	−1	58	−1	N	1	NE	c	1	6	61	53	c.op.fr	orf.or	o.c	0·4
	Scilly (St. Mary's)	1004·8	55	—	0	omr	1001·7	−1	54	−2	N	4	-	omr	4	23	58	53	cp.or	omr	cpomr	0·0
	Falmouth ...	1003·5	55	—	0	odm	1000·8	−1	55	−2	NW	1	-	r	*	8	58	52	od	or.od	d.bc.or	0.1
	Jersey (St. Aubin)	1004·9	68	W	2	b	1003·7	*	62	0	SE	2	SE	c	1	Trace	71	58	bc.b.op	o.bc.b	bc.c.bc	5·1
	Portland Bill ...	1004·3	58	NW	2	bc	1002·3	0	56	−1	SSE	3	-	o	3	-	61	54	cp	o.c.bc	bc.c.o	*
	Dungeness ...	1004·0	58	SE	1	o	1004·7	0	59	−3	WSW	1	-	om	0	0·2	71	55	bcp.o	o.c.o	cp.cf.m	*
	Dover	1004·3	59	SSW	1	o	1004·8	+1	60	−4	S	1	S	o	2	2	73	57	c.bc.c	c.bc.c.o	opr	5·5
	Wick	1002·0	51	SE	1	c	1003·5	+1	50	−3	NW	1	-	o	2	-	56	42	bcq	bc	c.bc.om	*
	Nairn	1001·6	62	W	1	bc	1004·1	*	50	−3	W	1	-	cg	1	-	66	40	bc	bc	bc.c	12·1
	Aberdeen ...	1002·0	61	S	4	b	1004·1	+1	52	−5	NE	1	-	o	2	-	64	48	b.bc	bcq.b	bc.c.o	12·6
	Leith	1002·8	61	NW	2	c	1003·3	0	52	−2	W	1	SW	c	1	-	65	49	bc.c.bc	b	c.bc.oc	*
	Tynemouth ...	1003·6	60	SE	2	om	1003·6	0	52	−6	N	1	-	ogm	2	1	67	50	cm	cm	omp	*
	Spurn Head ...	1003·8	58	SE	3	cm	1003·9	+1	57	−4	NW	1	-	bcm	2	-	67	56	bcm	bcm	bc	3·5
	Yarmouth (Gorleston)	1003·5	64	S	1	bc	1004·5	+2	60	−4	SW	2	-	bcm	2	1	71	58	bc	bcpt	bcmp	6·6
	Clacton-on-Sea	1004·2	65	SSW	2	c	1004·5	0	64	−3	S	2	SW	c	1	1	73	60	c.o	o.cbr	c.bc.c	3·2
	Nottingham ...	1003·3	63	W	1	o	1003·2	*	59	−1	S	1	S	c	*	4	71	55	cp.o	cp.o	op	1·6
	Benson (Oxon.) ...	1002·6	70	S	3	bc	1002·6	+1	60	−1	S	2	SW	bc	*	0·1	71	51	op.c	bc	cd.l	*
	Sth Farnborough	1002·8	68	SW	3	o	1002·8	0	62	−8	SE	2	SW	bcz	*	1	72	53	clp.o	o.c.o	bcg	2·3
	London (Kew Obsy.)	1002·8	71	SW	2	o	1003·9	0	62	0	ESE	1	SW	om	*	0·1	74	56	o.olp.o	ob.o	o.c.om	3·3
NORTHERN EUROPE.	Spitsbergen ...						1008·8	0	39	+3	—	0	*	bc	*	*	37	32				
	Vardö	?1007·0	41	E	4	s	1006·1	0	41	−4	E	4	—	bc	2	*	46	39				
	Bodö	1001·3	?55	E	1	b	1005·6	+1	50	−7	SW	1	—	o	1	1	57	48				
	Christiansund ...	1003·4	52	W	2	s	1006·7	+1	54	−7	—	0	—	o	3	3	64	50				
	Skudesnaes ..	1004·6	57	—	0	f	1004·7	−1	59	+2	—	0	—	bc	2	Trace	61	52				
	Færder (X'Iania Fjord)	1006·6	?	S	2	c	1005·2	0	64	0	SSE	4	SW	bc	2	10	64	61				
	The Scaw (Skagen)	1005·7	66	ESE	1	c	1006·0	+1	66	0	SW	1	—	c	0	2	70	63				
	Blaavands Huk	1006·9	73	S	1	c	1006·4	?	68	+4	SSW	3	SW	c	?	Trace	75	63				
	Copenhagen ...	1008·3	77	WSW	2	b	1008·6	−1	75	+5	SW	3	—	b	*	—	81	66				
	Bornholm ...	1010·1	73	SW	1	m	1010·0	−1	77	+4	SSW	2	—	m	0	—	79	68				
FRANCE, &c.	The Helder ...	1005·0	64	S	1	r	1005·7	+1	63	−3	S	2	—	r	1	2	77	59				
	C. Gris Nez ...	1004·7	62	SW	2	tlr	1004·8	+1	64	−2	S	3	*	c	2	1	72	59				
	La Hève	1005·5	64	WSW	4	tlr	1005·3	*	61	−3	SSW	3	*	tlr	2	4	72	59				
	Brest (St. Mathieu)	1005·5	66	S	3	bc	1001·9	−1	62	+2	S	5	*	o	4	1	77	55				
	Rochefort (Ile d'Aix)	1006·6	68	WSW	3	o	1005·9	0	64	−2	S	3	*	o	*	29	82	61				
	Biarritz	1006·7	62	E	3	tlr	1006·7	+3	64	−6	SW	3	*	r	3	82	77	59				
	Paris	1006·4	73	SW	3	bc	1006·7	+1	66	−7	S	2	S	c	*	4	82	63				
	Belfort	1009·7	76	W	6	b	1011·3	*	68	−4	W	3	*	c	*	1	86	59				
	Lyons	1009·2	70	SSW	2	b	1008·0	*	58	−9	—	0	*	o	*	—	81	63				
	Nice	1015·1	69	—	0	bc	1014·4	−3	60	−11	E	1	*	r	1	1	81	57				
	Perpignan ...	1008·2	72	SE	4	o	1005·9	−3	61	−9	E	1	S	tlr	*	25	86	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1009·2	64	NNE	2	o	1010·1	+2	59	−7	S	4	—	o	3	7	70	54				
	Madrid	1012·4	68	W	4	bc	1013·5	+2	57	−29	WSW	3	—	b	*	2	86	54				
	Lisbon	1012·6	68	WSW	3	b	1014·0	+2	63	0	SW	1	—	o	2	Trace	72	63				
	Azores (Horta) ...	1024·4	*	NE	4	bc	1025·1	+1	61	+2	NNE	5	*	o:	3	—	66	59				
	Madeira	1019·9	70	N	3	o	1019·0	0	64	+1	N	2	—	o	2	5	70	64				
	Gibraltar	1015·6	65	W	4	m	1016·6	*	62	−4	NW	2	*	m	3	—	77	60				
	Malta	*	*	*	*	*	1015·9	+1	73	0	SE	1	—	b	0	—	79	72				
	Limassol	*	*	*	*	*	1008·2	+1	79	0	W	6	—	b	5	—	84	57				
	Alexandria ...	1013·5	72	NW	3	b	1014·3	0	73	−2	NW	3	NW	bc	2	—	86	68				
	Cairo (Helwan) ...	1011·7	77	N	3	b	1013·6	+2	72	0	N	3	—	bc	*	—	88	66				

GALES.
Duration and Extreme Force in British Islands.

Note.

Solar Halo was observed at Holyhead this morning.

LONDON OBSERVATIONS.

	Humidity. 15 h. 19th	Humidity. 9 h. 20th	Sunshine for 19th	24 Hours ended 9 h. 20th. Temperature. Max.	Temp. Min.	Temp. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	58	68	3·5	70	53	43	2	o	or.c	c
CITY (Bunhill Row)	*	*	2·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	69	69	3·0	73	58	53	1	bcp.bc	b	bc
CAMDEN SQ. (British Rainfall) ..	58	65	2·0	77	56	55	2	o	bc	*
HAMPSTEAD (Reservoir) ..	*	77	4·3	71	55	45	Trace	c.op	bc	c.o
S. KENSINGTON (Museum Grounds)	*	76	3·6	72	57	54	—	opr.c	cz	c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 19th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1261	21·1	73·5

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

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

Issue No. 20,300 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Thursday 21st June

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

Rain fell generally, heavily at many stations. Day temperatures were high in the south-east but moderate or rather cool elsewhere. Sunshine measurements were variable, from almost zero in Wales up to 13·5 hours at Malin Head.

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

	STATIONS.	Sunshine for 19h	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 20th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	11.9	–	–	56	49	b.bc	bc.o	8.5
	Banff	12.1	–	–	58	53	bc	b.bc.	5.6
	Montrose	10.2	*	*	65	44	b	o	3.7
	St. Andrews	-							
	Cornoustie	*	*	*	63	54	o.cf	f.c	6.3
Eng. N.E.	Harrogate	1.1	2	1	61	51	o	p.obp	0.4
	Skegness	5.1	–	–	71	51	bc	bc	7.7
Eng. N.W.	Morecambe	2.5	1	4	63	52	-	-	3.6
	Southport	0.1	1	2	60	50	o.c.o	ogr	1.2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0.4	6	7	65	54	o	or.th	1.3
Wales.	Rhyl	0.1	1	7	58	51	cp	cp.op	0.3
	Colwyn Bay	*	*	*	59	50	c.o	or	0.5
	Llandudno	*	*	*	58	50	cr	r	0.7
	Aberystwyth	*	*	*	60	54	o.c.o	cr	0.0
England, E.	Lowestoft	5.2	–	–	68	59	bc	bc.b	10.0
	Felixstowe	5.1	1	–	70	60	bc	bc	10.2
	Walton-on-Naze								
	Southend-on-Sea	2.5	–	–	80	58	bc.c	b.bc.cg	6.6
England, S.E.	Margate	3.9	6	–	75	60	c.bc.b	b.bc.c	6.9
	Hastings	5.4	*	*	70	54	f.bc.b	b	8.6
	Eastbourne	2.3	1	–	65	54	b	o.bc.o	7.4
	Seaford		–	–	72	55	bc f.bc	bc.o	9.7
	Brighton	3.3	–	Trace	65	56	b	b.or	7.5
	Worthing	4.1	–	1	68	56	b	bc.or	8.6
	Littlehampton		*	*	71	56	-	-	8.6
	Bognor								
	Bournemouth	7.5	*	*	66	54	c.o	or	3.3
England, S.W.	Weymouth	-	*	*	66	55	3.c.bcp	p.f	1.1
	Torquay	1.1	1	1	63	54	c.o	op.c	2.3
	Paignton								
	Penzance	0.5	7	2	59	54	or	or.c.bc	0.0
	Newquay	0.0	5	5	57	51	r	d.o	0.0
	Bude	0.0	8	12	58	53	r	r	0.0
	Ilfracombe	0.0	7	19	62	54	r	r	0.0
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR 20th June

	STATIONS.	Evening of 19th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 20th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1003.0	54	NW	1	b									*	
	Gorki	1013.3	42	–	0	b	1016.3	*	68	0	–	0	b	–	*	54
	Velieki Luki							*							*	
	Hangö						1010.4	0	57	0	SW	1	b	–	*	50
	Riga	1012.6	45	–	0	b	1013.6	0	45	+3	SSW	1	b	–	*	66
	Petrograd	1012.0	66	E	3	b	1012.4	0	40	+6	WSW	2	b	–	77	61
	Moscow	1009.2	68	NE	3	b	1018.0	+3	63	–3	SE	2	b	–	*	54
	Kiev	1013.2	43	NE	1	bc	1014.7	+1	42	+2	N	2	b	–	*	66
	Kharkov	1012.0	63	SSW	1	thr	1013.1	+2	66	0	N	2	b	4	*	57
	Kishinev	1013.0	61	NW	2	b	1014.7	+1	61	–2	N	2	o	8	*	55
	Elisabetgrad	1012.0	68	–	0	bc	1013.0	+1	40	+2	NNW	2	bc	–	*	61
	Nicolaiev	1011.1	40	SW	4	c	1013.0	*	66	+2	–	0	bc	6	*	59
	Odessa	1012.6	40	W	2	o	1012.7	+1	63	–1	NNE	3	b.	1	*	63
	Tarkhankout							*							*	
	Soukhoum															
Mediterranean.	Venice						1015.5	*	43	0	NE	1	b	–	81	40
	Pesaro	1014.3	40	ESE	1	b	1017.0	*	43	0	SSW	2	b	–	82	63
	Rome	1016.9	43	W	1	b	1019.4	*	42	0	NE	1	o	–	86	64
	Viesti	1016.6	43	–	0	b	1018.2	*	47	+2	N	1	b	3	82	64
	Brindisi	1015.8	42	E	1	bc	1017.0	*	68	–2	S	1	b	–	45	63
	Cagliari	1014.6	49	SE	4	c	1013.5	*	40	–3	SE	5	o	2	81	57
	Palermo	1017.5	43	–	0	b	1018.5	*	40	+2	–	0	s	–	49	55
	Tripoli						1017.6	*	47	+2	NE	1	b	–	42	46
	Algiers	1008.4	64	SW	5	c	1015.1	0	43		WSW	5	b	–	90	70
Sweden.	Hernösand	1001.4	59	SSW	2	bc	1005.5	*	68	+9	–	0	b	*	*	*
	Stockholm	1006.7	45	SSW	2	c	1009.7	*	49	0	S	2	b	*	*	*
	Wisby	1007.4	45	S	4	o	1011.0	*	42	–5	WSW	2	bc	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1008.3	45	+2	–	0	0
Reykjavik	1003.4	48	+7	–	0	b
Vestmanna						
Seydisfjord	1005.0	44	+2	–	0	0
Thorshavn	1004.0	51	+1	NE	2	0

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

21st & 22nd June 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.34 / 3.32	11.54 / 11.55	8.14 / 8.18
Greenwich	3.44 / 3.45	12.1 / 12.2	8.18 / 8.19
Wick	3.4 / 3.8	12.13 / 12.14	9.19 / 9.20
Valencia	4.22 / 4.23	12.42 / 12.43	9.2 / 9.3

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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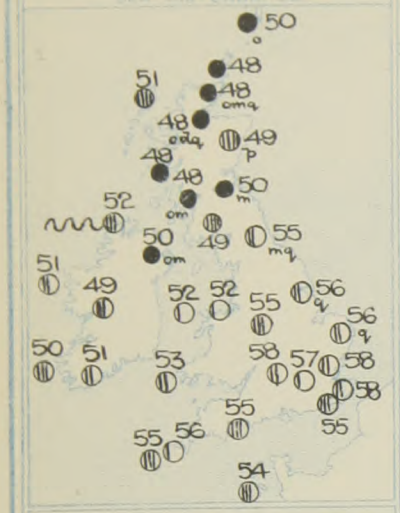
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Thursday, 21st JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

EXPLANATION.

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

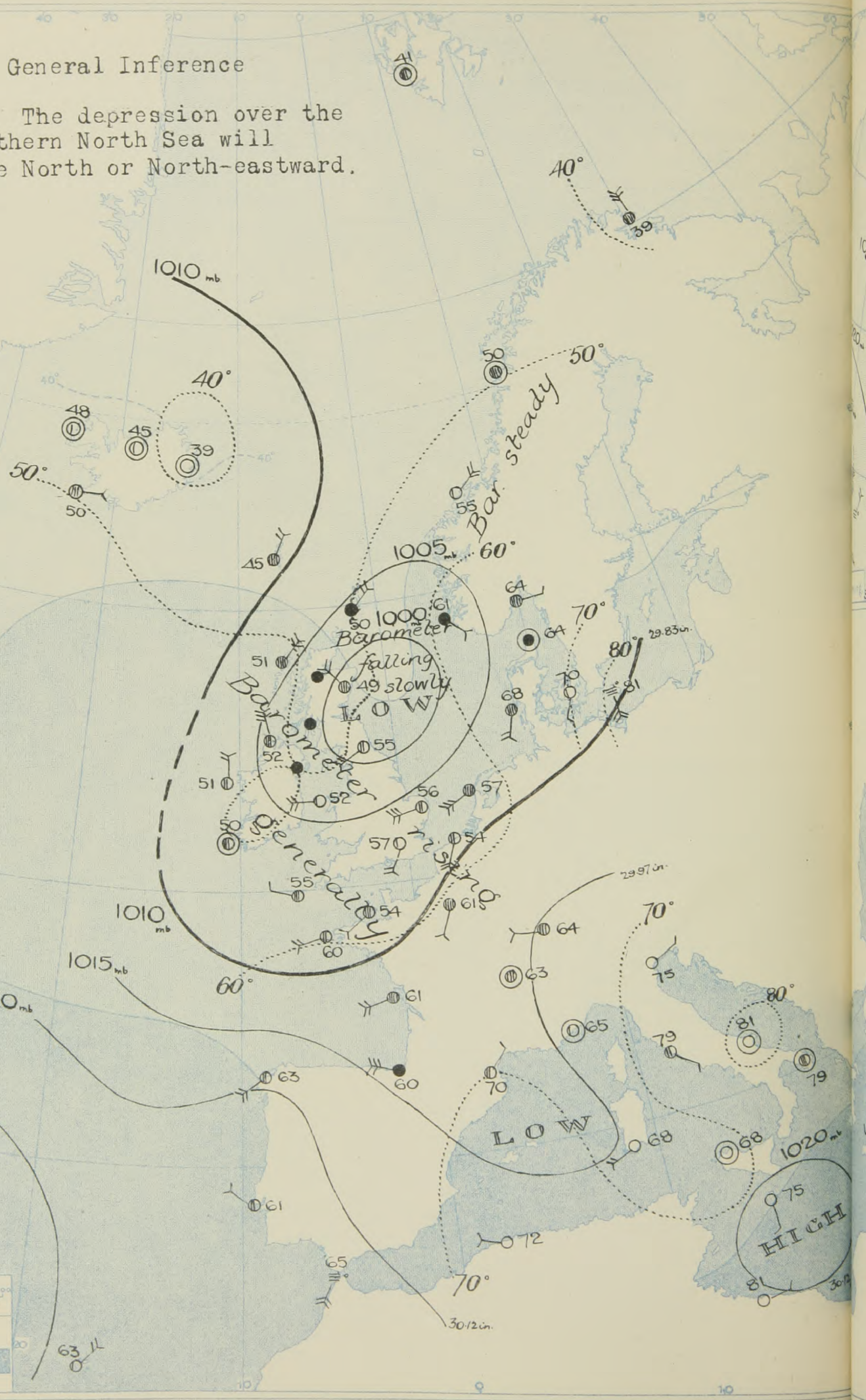
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

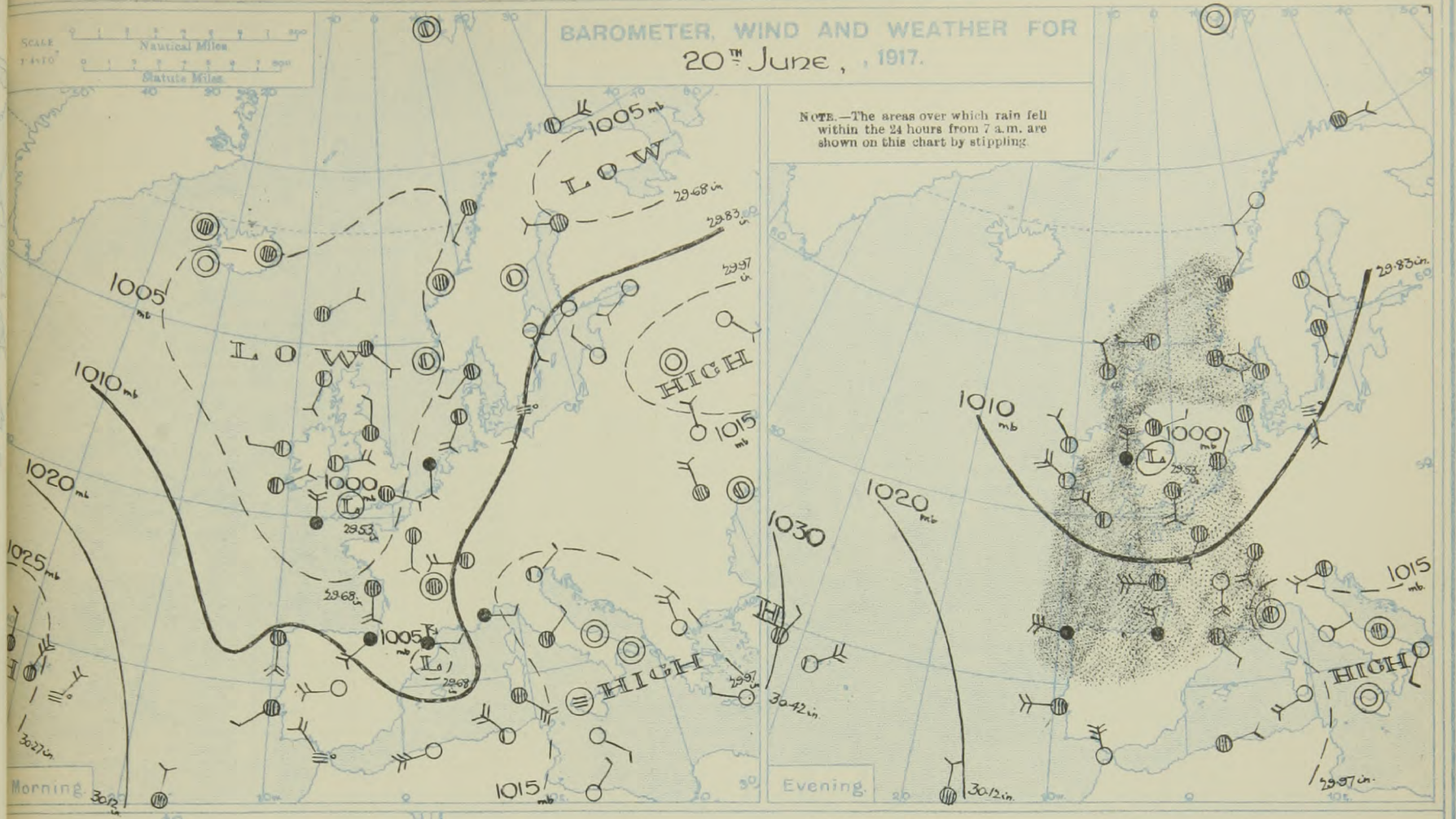
General Inference

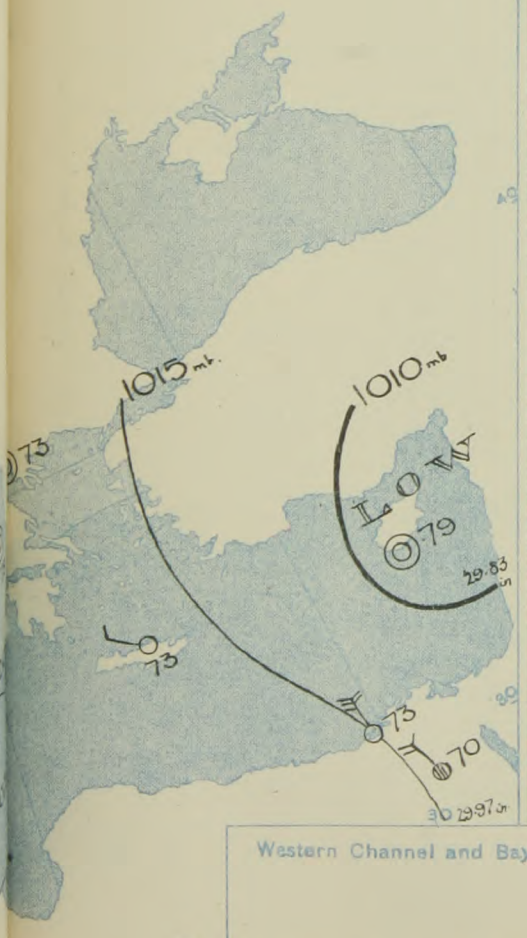
The depression over the Northern North Sea will move North or North-eastward.



Scale 1° = 10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 2 3 575

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





Western Channel and Bay.

Forecasts 18h. Thursday to 18h. Friday

0 {a b} 1	Moderate or fresh NW. winds; showery; cool.
2 {a b} 3 4 {a b c} 5	Moderate or fresh SW. or W. winds; fair; moderate temperature.
6 {a b}	Same as Nos. 0 and 1.
7 {a b} 8 {a b} 9 {a b} 10 {a b}	Moderate winds between W. and NW; fair generally; moderate temperature.
11	Moderate W. or NW. winds; slight sea; fair weather.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 172 { Thursday. 21st June

	STATIONS	EVENING OF 20th					MORNING OF 21st								24 HOURS ENDED 7 A.M.						Sunshine for 20th
		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 ...	1005·1	59	W	1	bc	1004·6	−1	50	−2	NE	3	−	or	3	3	61	48	om	ba	omr	
	Deerness (Orkney)	1005·4	52	ENE	3	c	1002·7	*	48	−4	N	4	−	r	3	9	59	46	o.c.bc	bc.c	c.or	6·4
	Stornoway ...	1004·5	57	NNW	2	bc	1005·4	0	51	−1	NE	4	−	o	?	1	58	46	bc	bcp	b.o	9·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1003·5	55	E	2	od	1000·1	0	48	−3	WNW	2	−	omr	*	27	64	47	bc.br	bct.oq	omr	6·9
	Eskdalemuir ...	1002·5	52	NE	4	or	998·5	+2	49	−2	WNW	4	−	o	*	18	64	48	c.o	o.or	or.o.or	5·2
	Malin Head ...	1004·2	56	N	3	bc	1003·6	*	52	+2	NNW	5	SW	c	5	−	57	49	bc	bc	c	13·5
	Blacksod Point	1005·0	55	NW	3	bcv	1006·5	+2	51	+1	N	3	N	bc	2	−	56	46	bcv	bcv	bc	*
	Valencia (Cahirciveen)	1006·4	55	NW	4	b	1007·2	+2	50	−2	−	0	NW	c	3	1	59	45	bc	bv	bc.cpc	10·7
	Roche's Point	1004·7	53	NNW	3	o	1006·6	*	51	−1	NW	1	NW	bc	1	2	60	46	op.o	oq	c.b.bc	*
	Birr Castle ...	1003·3	56	NW	2	o	1005·9	*	49	−2	WNW	1	W	c	*	0.1	63	44	o	o.c.op	op.c	2·6
	Donaghadee ...	1003·1	50	N	4	omr	1002·8	+2	50	0	NW	3	−	omr	2	11	54	47	om	om	omr	*
	Liverpool (Bidston)	999·6	54	WNW	2	r	1004·3	+3	52	−3	WSW	4	W	b	3	16	59	49	o	or	oq.b	0·2
	Holyhead ...	1001·4	50	N	5	omr	1004·3	+2	52	−2	W	4	−	b	3	11	59	49	bc.c.or	orm	or.c.bc	0·3
	Pembroke (St. Ann's)	1002·9	50	NW	3	or	1006·3	+3	53	0	WSW	2	W	bc	1	13	55	49	c.or	or	c.cpd	0·2
	Scilly (St. Mary's)	1005·9	56	NW	3	bcp	1007·3	+1	55	+1	WNW	1	W	c	3	10	60	50	omr.c	bcp	cp.cpl	2·1
	Falmouth ...	1004·8	54	NW	2	odm	1006·6	0	56	+1	SW	2	−	b	*	6	58	48	c.or	dq.bc.c	dm.bc.bl	1·1
	Jersey (St. Aubin)	1005·8	58	W	4	o	1007·8	*	54	−8	SW	2	SW	c	2	4	69	53	b.op.o	o.bcp.o.b	or.c	6·7
	Portland Bill ...	1002·1	54	WSW	5	c	1007·3	+2	55	−1	WSW	2	SW	c	2	1	61	51	bc.c	bcp	bc.c	*
	Dungeness ...	1003·7	61	−	0	p	1008·2	+3	55	−4	SW	4	SW	c	3	1	70	53	fm.bc	ber	bcr.c	*
	Dover ...	1002·5	62	SE	2	r	1008·9	+2	58	−2	SSW	4	NW	bc	4	3	71	51	r.b	cr	pr.c.bc	5·5
	Wick	1005·3	50	ENE	2	bc	1002·1	−2	48	−2	N	4	−	omq	3	9	54	47	omq.bc	bc	bc.orm	*
	Nairn	1004·1	58	E	1	cg	1002·7	*	48	−2	NE	3	−	odq	3	20	61	47	bc.cg	cg	rd.oq	4·2
	Aberdeen ...	1004·8	55	E	1	o	998·1	−3	49	−3	NW	4	−	op	3	21	59	48	o.c	bc.b.o	or.	4·5
	Leith	1002·7	54	NE	2	r	997·5	0	50	−2	W	1	−	rm	2	16	63	49	cz.bc.c	c.a.c.or	r	*
	Tynemouth ...	1002·5	55	ENE	1	cg	998·0	−2	55	+3	SW	3	SW	bcmq	3	5	59	51	cm	omr	omqr	*
	Spurn Head ...	1000·6	59	SE	5	cqr	1003·4	+3	56	−1	WSW	5	−	bcq	4	−	66	54	bc	bcq	bcq	8·8
	Yarmouth (Gorleston)	1002·5	63	S	4	bc	1006·0	+4	56	−4	WSW	5	−	bcq	4	4	65	54	bcm	bcm	or.bcq	9·3
	Clacton-on-Sea	1003·0	65	ESE	3	c	1008·0	+5	58	−6	SW	4	W	bc	4	3	69	54	c.bc	bc.o	otlr.c	9·8
	Nottingham ...	1000·4	65	S	3	r	1005·0	*	55	−4	WSW	3	W	c	*	1	74	51	c.o	c.op	opt.c	3·5
	Benson (Oxon.) ...	1001·3	65	S	5	o	1006·8	+4	58	−2	S	2	W	bc	*	−	74	51	bc	c	bc	*
	Sth Farnborough	1002·1	64	S	4	o	1007·3	+3	57	−5	SSW	3	S	bc	*	Trace	77	49	bc	bc.od.o	o.b.bc	8·3
	London (Kew Obsy.)	1002·2	68	S	3	ov	1008·3	+3	57	−5	SSW	3	S	b	*	−	75	53	pm.c.bc.cv	ov.cv.ov.cv.	ov.bc.b	7·3
NORTHERN EUROPE.	Spitsbergen ...	1008·6	37	−	0	b	1005·7	−1	41	+2	−	0	*	c	*	*	41	32				
	Vardö	1006·6	39	E	2	o	1007·0	0	39	−2	N	5	−	o	2	*	43	39				
	Bodö	1008·3	52	SW	2	b	1008·8	0	50	0	−	0	−	o	0	−	52	46				
	Christiansund ...	1007·8	55	NE	1	o	1007·4	0	55	+1	NE	4	−	b	3	Trace	57	55				
	Skudesnaes ..	1004·4	59	SE	2	o	1002·9	−3	61	+2	SE	2	−	r	2	1	64	57				
	Færder (X'tania Fjord)	1007·0	64	SW	3	r	1007·7	0	64	0	E	1	−	o	1	5	68	63				
	The Scaw (Skagen)	1007·3	64	NW	2	o	1007·8	−1	64	−2	−	0	−	r	0	6	70	61				
	Blaavands Huk	1007·5	70	S	1	c	1005·7	?	68	0	SSW	3	−	o	?	1	72	59				
	Copenhagen ...	1007·9	79	WSW	1	c	1007·5	0	70	−5	SSW	1	−	b	*	−	81	66				
	Bornholm ...	1009·5	84	S	3	m	1009·5	+1	81	+4	S	4	−	m	1	−	86	70				
FRANCE, &c.	The Helder ...	1005·2	68	NNE	1	c	1007·7	+5	57	−6	SW	5	−	o	2	6	68	57				
	C. Gris Nez ...	1004·2	61	S	1	r	1009·7	+2	57	−7	SW	5	*	bc	5	29	70	54				
	La Hève	1005·0	61	WSW	3	r	1009·3	*	56	−5	SSE	3	*	c	2	14	75	54				
	Brest (St. Mathieu)	1008·3	61	WNW	4	b	1009·3	+2	60	−2	WSW	3	*	bc	3	9	63	52				
	Rochefort (Ile d'Aix)	1010·1	67	W	5	c	1011·5	+1	61	−3	WSW	4	*	o	*	2	73	59				
	Biarritz	1011·5	?66	NNW	3	r	1014·3	?	60	−4	WNW	5	*	r	4	15	75	59				
	Paris	1005·7	70	SW	2	o	1012·0	+1	61	−5	SSW	2	−	o	*	Trace	79	55				
	Belfort	1012·2	61	SW	3	o	1015·7	*	64	−4	W	2	*	c	*	6	82	58				
	Lyons	1011·9	67	S	4	b	1013·2	*	63	+5	−	0	*	e	*	3	73	57				
	Nice	1015·4	60	−	0	c	1018·1	+3	65	+5	−	0	*	b	3	19	72	55				
	Perpignan ...	1011·7	75	SE	1	c	1013·0	0	70	+9	NE	1	−	bc	*	2	84	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1012·3	57	WNW	5	r	1020·0	+2	63	+4	SW	4	−	bc	2	10	66	54				
	Madrid														*							
	Lisbon	1016·2	68	W	4	o	1022·1	+4	61	−2	NW	2	−	bc	6	−	72	59				
	Azores (Horta) ...	1028·0	*	NE	4	b	1031·3	+1	61	0	−	0	*	o	1	−	68	59				
	Madeira	1020·6	70	N	2	o	1024·4	+1	63	−1	NE	3	N	b	3	−	70	63				
	Gibraltar	1017·6	67	NW	5	b	1021·0	*	63	+3	SSW	4	*	m	3	−	79	60				
	Malta	*	*	*	*	*	1020·8	+1	75	+2	S	1	−	b	0	−	81	68				
	Limassol	*	*	*	*	*	1009·7	+1	79	0	−	0	−	b	0	−	63	57				
	Alexandria ...	1014·6	72	NNW	5	c	1015·1	+1	73	0	N	5	−	b	3	−	79	70				
	Cairo (Helwan) ...	1013·0	77	NW	3	b	1014·6	+2	70	−2	NNW	3	−	c	*	−	86	64				

GALES.
Duration and Extreme Force in British Islands.

Note

Solar Halo was observed last night at Holyhead at 18h.

LONDON OBSERVATIONS.

	Humidity. 15 h. 20	Humidity. 9 h. 21st	Sunshine for 20th	24 Hours ended 9 h. 21st: Temperature. Max.	Temp. Min.	Temp. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	51	53	9·2	79	50	41	−	bc	bc.co	o.bc.b
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	57	67	7·7	74	52	49	−	bo	c	bc
CAMDEN SQ. (British Rainfall) ..	54	57	9·6	78	51	49	−	bc	bc.c	*
HAMPSTEAD (Reservoir)	*	62	7·9	73	49	40	−	bcp	c	bc
S. KENSINGTON (Museum Grounds)	*	63	8·1	75	55	48	−	c.ba	c.oxdr	c.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 20th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1775	29·8	? 88

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

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

Issue No. 29301 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** {Friday 22nd June

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

Rain fell generally, very heavily (47 mm) at Wick, where thunderstorms occurred in the evening and night. Temperature scarcely exceeded 55° in the North and 65° in the South.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Thursday, 21st June, UP TO 17 H.

	STATIONS.	Sunshine for 20th	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 21st
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	8.5	4	2	51	47	r	o	0.0
	Banff	5.6	26	9	49	48	or	or.o	0.0
	Montrose	3.7	*	*	56	43	o	o	0.0
	St. Andrews		8	1	57	48	o	c	1.2
	Carnwath	-	*	*	55	49	o	w.o.g.c	5.3
Eng. N.E.	Harrogate	0.4	1	-	62	49	c.bc.b	b.bc.c	7.1
	Skegness	8.7	-	1	66	54	bc	bc.op	6.2
Eng. N.W.	Morecambe	3.6	18	-	60	51	-	-	9.4
	Southport	1.2	6	-	60	50	o.c.bc	d.bc.c.bc	8.8
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	1.5	-	-	66	50	c.bct	bcp	6.1
Wales.	Rhyl	0.5	14	1	58	49	r	bcp.bc	0.0
	Colwyn Bay	-	*	*	61	49	bc	b	10.0
	Llandudno	-	*	*	61	50	bcp	b	9.8
	Aberystwyth	-	*	*	59	52	r.o.c	b.bc	6.0

	STATIONS.	Sunshine for 20th	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 17 h. 21st
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	10.0	1	2	65	54	bc	bc.or	6.6
	Felixstowe								
	Walton-on-Naze	3.8	1	2	68	53			6.5
	Southend-on-Sea	6.6	-	3	67	54	ov.c.bc	c.or.v	5.6
England, S.E.	Margate	6.9	3	10	63	52	bc.c	or	3.5
	Hastings	8.6	*	*	62	54	or.bc.c	or.bc.b	4.6
	Eastbourne	7.4	1	-	63	53	o.c.bc	bc.b	6.4
	Seaford	*	*	*	64	53	o.bc	o.bc	6.8
	Brighton	7.5	Trace	Trace	62	55	cp.c	cr	6.5
	Worthing	8.6	-	Trace	63	55	cr.bc	bc	4.5
	Littlehampton	*	*	*	66	55	-	-	4.5
	Bognor								
	Bournemouth	3.3	*	*	63	49	o.bc	bc	9.0
England, S.W.	Weymouth	-	*	*	64	50	c.bc	b.bc	7.5
	Torquay	3.2	1	-	65	49	o.c.bc	bc	6.9
	Paignton								
	Penzance	0.0	Trace	Trace	62	48	bc	bcp.c	6.2
	Newquay	0.0	Trace	-	60	47	b	b.bc	7.3
	Bude	0.0	6	-	62	51	bc	bc	7.4
	Ilfracombe								
	Weston-s-Mare		*	*	63	51	c.bcp	p.bc.c	3.5

REPORTS FROM FOREIGN STATIONS FOR Thursday, 21st June.

	STATIONS.	Evening of 20th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 21st: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1006.9	51	SSE	1	o	1007.3	0	57	-	W	1	o	2	*	55
	Gorki						1020.6	0	68	0	-	0	b	-	*	54
	Velieki Luki						1017.2	*	73	.	S	2	c	-	*	55
	Hangö	1011.9	61	SSW	1	b	1011.4	0	63	+6	SW	2	b	-	*	55
	Riga	1014.9	73	-	0	b	1016.7	0	77	+2	-	0	b	-	*	68
	Petrograd	1011.9	72	WNW	2	b	1013.5	0	72	+2	SW	2	b	-	86	64
	Moscow	1017.5	66	-	0	b	1017.6	0	70	+7	WSW	3	b	-	*	61
	Kiev	1015.8	73	NE	2	b	1017.2	+2	70	-2	SE	2	b	-	*	64
	Kharkov	1015.4	70	NE	2	b	1018.4	+2	63	-3	ENE	2	b	-	*	57
	Kishinev	1014.3	70	NE	1	o	1015.0	+2	64	+3	NW	3	c	2	*	55
	Elisabetgrad	1014.4	75	NE	3	o	1016.2	+2	70	o	E	2	bc	-	*	61
	Nicolaiev	1012.6	82	ENE	3	b	1015.2	*	68	+2	-	o	b	b	*	61
	Odessa	1015.7	66	ESE	2	r	1015.8	+1	68	+5	NNE	3	b	2	*	68
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1014.3	77	WSW	2	c	1016.3	*	75	+2	NE	1	b	-	84	70
	Pesaro	1016.4	75	S	1	o	1017.5	*	75	+2	S	1	o	Trace	88	63
	Rome	1017.6	75	E	1	c	1018.1	*	79	+7	SE	1	bc	-	82	70
	Viesti	1017.4	75	SSE	1	c	1017.0	*	81	+4	-	o	b	-	84	73
	Brindisi	1018.3	73	SW	1	b	1017.0	*	79	+11	SW	1	c	-	77	72
	Cagliari	1013.3	77	WSW	3	b	1015.6	*	68	-2	WSW	3	o	-	81	57
	Palermo	1018.1	75	-	o	b	1017.5	*	68	-2	-	o	b	-	82	57
	Tripoli						1019.9	*	81	+4	E	1	b	-	82	66
	Algiers	1015.4	70	ENE	2	c	1017.0	+4	72	-1	WNW	2	b	-	82	66
Sweden.	Hernösand	1006.3	64	SSE	2	bc	1007.7	*	64	-4	-	o	bc	*	*	*
	Stockholm	1008.4	73	S	2	o	1010.3	*	81	+2	SSW	2	b	*	*	*
	Wisby	1009.5	81	S	4	b	1010.9	*	82	+10	S	2	b	*	*	*

Iceland.	Morning of 21st: Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0–12.	Weather
Isafjord	1012.2	48	+3	-	o	b.
Reykjavik	1012.0	50	+2	E	2	c
Vestmanna						
Seydisfjord	1012.3	39	-2	-	o	b.
Thorshavn	1011.8	45	-6	NNE	3	o

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

22nd to 23rd June 1917.

	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.32	11.55	8.18
	3.32	11.55	8.18
Greenwich	3.45	12.2	8.19
	3.45	12.2	8.19
Wick	3.8	12.14	9.20
	3.8	12.14	9.20
Valencia	4.23	12.43	9.3
	4.23	12.43	9.3

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.

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

‡ The barometric change is expressed in half-millibars.

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

THE MORNING OF FRIDAY, 22ND JUNE, 1917.

General Inference

The Atlantic anti-cyclone is likely to spread slowly over this country.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

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

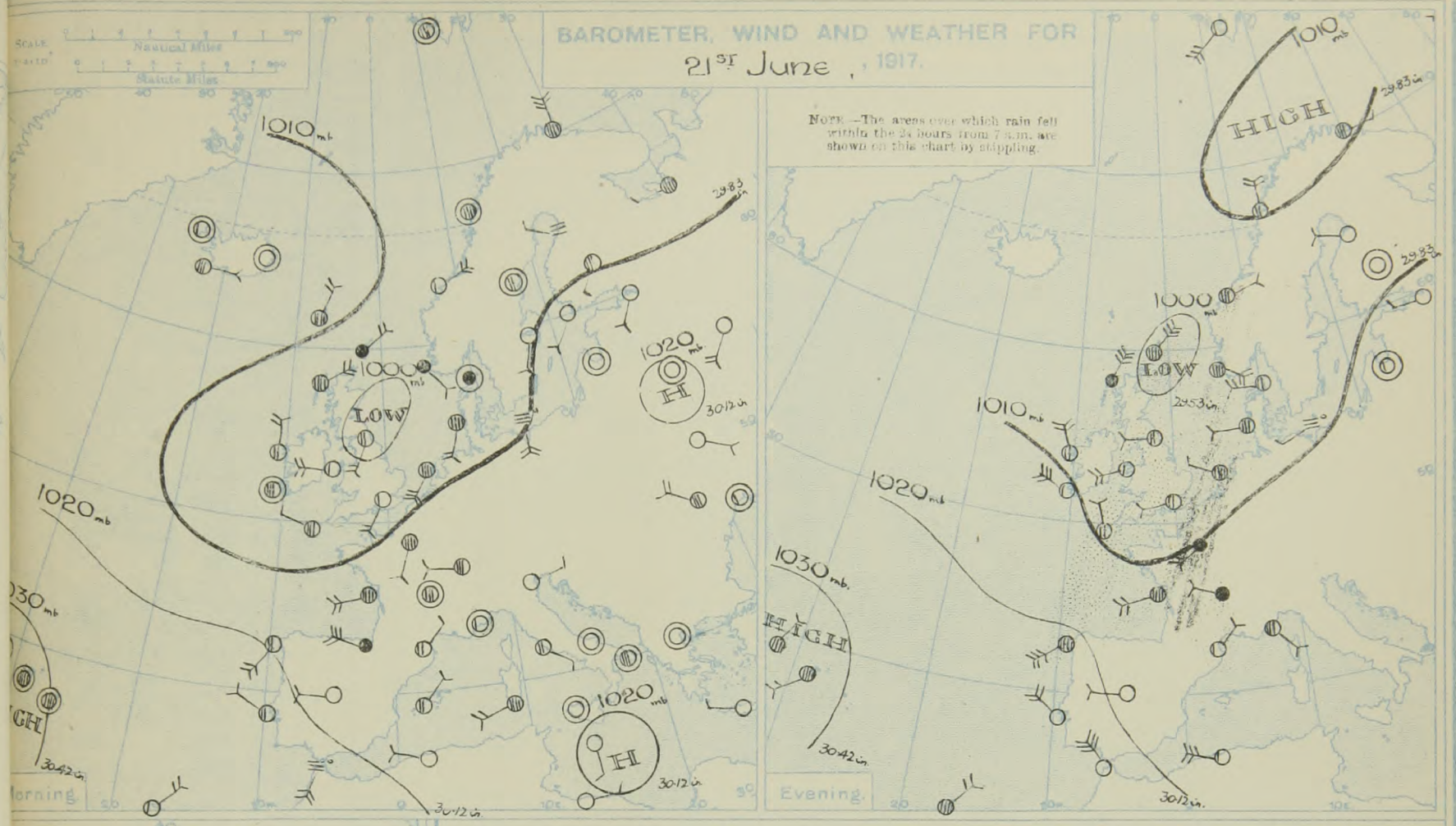
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

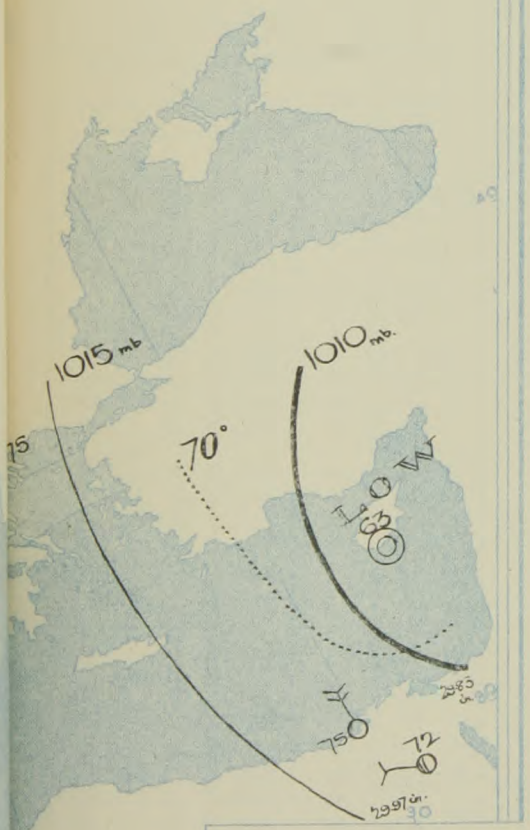
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈

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





Forecast 18h Friday to 18h. Saturday

0 (a, b), 1 — Fresh N. or NW. winds; Changeable, showery; cold.

2 (a, b) — Moderate NW. winds; fair generally, but some showers; cold.

3, 4 (a, b, c), 5 — Moderate NW. winds; fair generally. Temperature moderate or rather cool.

6 (a, b) — Same as No. 2

7 (a, b), 8 (a, b) — Moderate NW. winds; fair; rather cool.

9 (a, b), 10 (a, b)

11 — Moderate W. or NW. wind; moderate sea; fair to fine.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 173 { Friday 22nd June

	STATIONS.	EVENING OF 21st					MORNING OF 22nd								24 HOURS ENDED 7 A.M.						Sunshine for 21st
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	999·9	49	NE	6	om	1000·7	0	50	0	E	2	-	om	2	12	50	47	or	omr	om	*
	Deerness (Orkney)							*														
	Stornoway ...	1006·5	49	NNE	6	opq	1009·9	+2	47	−4	N	4	-	oq	4	2	52	45	opq	opq	oq	0.0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1003·5	49	WNW	1	omu	1009·4	+3	49	+1	W	1	N	o	*	6	52	46	omr	omr.op	omupc	0.0
	Eskdalemuir ...	1003·9	50	WSW	4	ov	1008·9	+4	50	+1	SE	1	-	c	*	0.1	54	41	o.or.o	op.o	ov.od.c	0.9
	Malin Head ...	1006·6	52	NW	4	ompq	1011·3	.	50	−2	N	5	NW	cq	5	9	54	48	om.c	ompq	cq	0.5
	Blacksod Point	1009·4	53	NNW	4	bc	1014·7	+3	50	−1	N	3	N	cg	3	1	56	48	bc	bc	bc.cp	*
	Valencia (Cahirciveen)	1010·6	56	NW	5	b	1015·7	+3	54	+4	NW	3	NW	c	4	-	58	49	c.bcv	bv	bv.bc.c	11.8
	Roche's Point	1008·9	56	NW	2	cp	1014·7	*	53	+2	NW	3	NW	b	2	4	62	47	bc	cgp	c.b	*
	Birr Castle ...	1007·1	60	W	1	c	1013·5	*	51	+2	WNW	1	-	c	*	-	61	45	c	c	c	7.1
	Donaghadee ...	1005·9	51	NW	3	omp	1011·3	+4	50	0	NW	3	NW	ogm	2	8	54	47	omp	cmp	cmq	*
	Liverpool (Bidston)	1006·6	58	WSW	1	b	1010·1	+1	51	−1	W	3	W	bc	2	1	59	49	bcp	bc	b.bc	8.2
	Holyhead ...	1006·4	57	WSW	4	bg	1011·7	+3	53	+1	NNW	4	N	c	3	-	61	50	bc.c.b	b.bc.b	b.o.c	11.5
	Pembroke (St. Ann's)	1007·9	55	WSW	2	bc	1012·7	+6	54	+1	WNW	2	NW	c	1	0.1	57	48	bc.b	b.bcv	b.bc	12.5
	Scilly (St. Mary's)	1008·8	54	NNW	2	bc	1013·8	+4	55	0	NNW	3	NW	bcpr	4	1	61	49	bc.c	c.bc	c.bcv.p	8.6
	Falmouth ...	1008·0	57	N	1	c	1013·1	+4	53	−3	WNW	2	-	cp	*	1	62	47	b.bc	bc.o	c.bc	7.1
	Jersey (St. Aubin)	1008·8	58	SW	2	oq	1013·0	*	56	+2	WSW	2	-	b	2	10	62	51	c.o.b	bc.o	ogr.bc	6.3
	Portland Bill ...	1007·3	56	WSW	3	b	1011·3	+5	55	0	WNW	4	-	b	3	1	58	52	c.bcp	bc	b.bc	*
	Dungeness ...	1006·3	58	SW	4	bc	1008·2	+2	52	−3	SW	1	SW	c	0	11	59	48	cr	r.c	cr.cf.c	*
	Dover	1007·3	59	-	0	c	1009·1	+2	49	−9	SSW	4	-	o	2	10	59	48	bc	br.c	c.bc.so	4.7
	Wick	998·9	47	NNW	5	tlr	1004·5	+3	46	−2	NNW	6	-	opqm	4	47	48	45	omrq	omtlr	or.tlp	*
	Nairn	1002·3	47	N	2	or	1007·2	*	47	−1	NW	1	-	c	1	24	48	46	r.odq	oqu	r.o	0.0
	Aberdeen ...	1000·7	51	W	4	c	1006·6	+3	51	+2	WNW	5	NW	cq	3	Trace	54	47	op	o.c	cq	1.3
	Leith	1002·0	50	W	1	o	1008·2	+2	51	+1	WNW	1	NW	c	2	3	53	42	mr.o	or.o	o.ou.c	*
	Tynemouth ...	1003·6	60	W	2	bc	1007·9	0	53	−2	NW	2	NW	bcm	3	-	62	49	cmq	bcm	cm	*
	Spurn Head ...	1006·4	55	SW	4	tlr	1008·2	0	54	−2	NW	5	-	bcq	4	3	66	51	cq	ctl	c	3.6
	Yarmouth (Gorleston)	1007·0	57	SSW	3	bc	1008·3	+1	53	−3	N	2	-	c	2	3	64	49	cq	bcpq	bc	8.7
	Clacton-on-Sea	1006·9	60	SSW	2	bc	1008·8	+1	56	−2	NW	2	NW	c	1	1	64	50	bc.c.o	or.c.bc	bc.cp.c	7.1
	Nottingham ...	1006·5	54	S	1	bc	1009·6	*	51	−4	W	1	-	bm	*	4	65	41	c.o	ctp	bc.c	4.5
	Benson (Oxon.) ...	1006·7	59	SW	1	bc	1010·0	+4	53	−5	NNW	3	-	b	*	1	65	41	ctr	bcv	bc	*
	Sth Farnborough	1007·0	59	NW	2	c	1009·5	+2	53	−4	NW	2	S	cgw	*	2	63	43	bc.or.o	opm.c	c.bc.cgw	5.7
	London (Kew Obsy.)	1001·4	62	WSW	2	bc	1002·2	+4	54	−3	NW	2	W	cm	*	0.3	66	49	bc.op.o	or.o.bc	bc.bmwc	6.4
NORTHERN EUROPE.	Spitsbergen ...	1006·0	64	SW	5	b	1004·4	−1	64	+23	—	0	*	bc	*	*	68	61				
	Vardö	1010·1	41	E	1	c	1009·7	0	41	+2	E	4	—	r	3	*	43	37				
	Bodö	1011·1	48	N	4	bc	1006·6	0	50	0	N	2	-	bc	2	—	52	50				
	Christiansund ...	1002·3	56	ENE	2	c	1006·7	+1	57	+2	—	0	-	f	2	1	59	52				
	Skudesnaes ...	1005·1	54	SSE	4	o	1005·6	0	59	−2	S	1	—	c	2	10	61	54				
	Færder (X'tania Fjord)	1006·0	64	SW	5	b	1004·4	−1	64	0	—	0	S	bc	2	—	68	61				
	The Scaw (Skagen)	1004·2	64	W	3	bc	1004·6	−3	63	−1	N	1	—	c	0	2	66	52				
	Blaavands Huk	1004·5	63	W	2	c	1004·8	?	55	−13	NE	1	—	r	?	10	70	50				
	Copenhagen ...	1008·8	73	NNW	3	bc	1001·7	−3	64	−6	NNW	1	—	tlr	*	15	79	64				
	Bornholm ...	1008·0	73	WSW	1	m	1001·9	−4	70	−11	SE	1	-	tl	0	—	86	63				
FRANCE, &c.	The Helder ...	1008·8	61	WNW	1	o	1006·6	+1	57	0	WNW	3	—	o	1	3	63	57				
	C. Gris Nez ...	1007·8	57	SW	3	c	1008·8	+1	53	−4	WSW	2	*	r	2	2	64	52				
	La Hève	1009·5	55	NNW	2	c	1009·7	*	50	−6	NW	5	*	r	3	4·5	63	52				
	Brest (St. Mathieu)	1008·8	54	WNW	3	o	1015·4	+2	59	−1	W	3	*	bc	3	4	61	52				
	Rochefort (Ile d'Aix)	1013·7	60	WSW	4	o	1011·1	+3	60	−1	W	4	*	o	*	6	68	55				
	Biarritz							*					*									
	Paris	1009·5	59	S	2	o	1011·3	o	54	−7	S	3	—	o	*	4	66	62				
	Belfort							*					*		*							
	Lyons	1016·3	54	WNW	2	r	1014·1	*	54	−9	SW	1	*	o	*	25	75	49				
	Nice	1016·0	68	SSE	2	c	1014·3	+1	51	−14	W	2	*	b	3	—	75	57				
	Perpignan ...	1017·7	66	NE	2	b	1020·6	+3	63	−7	—	0	-	o	*	6	82	55				
	Sanguinaire ...	1016·3	76	W	3	m	1019·5	*	72		NW	4	*	bc	4	—	86	64				
SOUTHERN STATIONS.	Corunna	1021·6	61	SW	6	o	1023·1	+1	61	−2	SW	5	—	o	2	3	66	57				
	Madrid	1018·1	70	W	2	b	1022·4	+1	59		ENE	1	—	b	*	—	72	50				
	Lisbon	1024·2	66	NW	4	b	1024·2	+1	66	−5	NW	2	—	o	5	—	70	57				
	Azores (Horta) ...	1031·8	*	SW	3	o	1031·5	+1	61	0	N	3	*	r	1	—	68	61				
	Madeira	1025·1	70	NE	3	o	1026·4	0	63	0	NE	3	—	bc	3	—	70	61				
	Gibraltar	1021·3	68	NW	6	b	1020·0	*	64	+1	W	4	*	b	3	—	79	62				
	Malta	*	*	*	*	*	1019·8	+1	75	0	NNW	2	—	b	0	—	81	70				
	Limassol	*	*	*	*	*	1008·3	0	63	−16	—	0	—	b	0	—	88	61				
	Alexandria ...	1014·0	72	NW	4	b	1013·2	+1	75	−2	N	4	N	b	2	—	81	70				
	Cairo (Helwan) ...	1012·6	77	NW	3	b	1013·0	+1	72	+2	NW	2	-	bc	*	—	88	68				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 21st	Humidity. 9 h. 22nd	Sunshine for 21st	24 Hours ended 9 h. 22nd. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	63	67	8·1	68	47	35	—	bc.o	op	bc.c
CITY (Bunhill Row)	*	*	7·9	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	78	71	8·1	67	49	44	Trace	bc.w	w	c
CAMDEN SQ. (British Rainfall) ...	64	64	5·5	68	48	48	Trace	o	o.bc	*
HAMPSTEAD (Reservoir)	*	66	6·9	62	46	36	Trace	bcp	bc	bc
S. KENSINGTON (Museum Grounds)	*	66	7·8	66	52	45	Trace	o.c.pr	o.cpbc	bc.b.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 21st

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1533	25·7	79·5

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

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

Issue No. 20,302. **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** Saturday, 23rd June.

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

Heavy rain fell at Dungeness and Dover, but over the country generally there was little precipitation. Thunder was heard at a few stations in the south-east. Sunshine measurements were moderate.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Friday, 22nd June, UP TO 17 H.

	STATIONS.	Sunshine for 21st	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 22nd
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	0.0	–	–	56	47	c.b	c.b	8.3
	Banff	0.0	5	–	59	45	c.bc	bc	5.2
	Montrose	0.0	*	*	61	43	b	b	5.6
	St. Andrews	1.2	Trace	-	62	46	b	c	7.8
	Carnoustie	·	*	*	62	52	b	b	9.7
Eng. N.E.	Harrogate	9.8	–	1	56	43	c.op	p.c	1.9
	Skegness	9.0	-	-	62	45	bc	bc	7.7
Eng. N.W.	Morecambe	12.9	1	-	58	50	-	-	3.4
	Southport	11.1	-	1	56	51	or.c.bc	c.bc	5.0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	7.2	Trace	1	67	42	d.cp	bc	10.0
Wales	Rhyl	2.8	-	-	56	45	bc	bc.c.bc	7.1
	Colwyn Bay	-	*	*	56	49	bc	b	7.2
	Llandudno	-	*	*	56	50	c	b	8.7
	Aberystwyth	-	*	*	57	45	r.o.c	b.bc	0.6
England. E.	Lowestoft	6.8	–	–	60	49	c.o	o.c	4.1
	Felixstowe	·	–	–	67	49	c.bc	bc	6.5
	Walton-on-Naze								
	Southend-on-Sea	8.0	–	–	66	51	bc.c	c.ow	5.6
England, S.E.	Margate	7.3	–	2	62	51	c.bc.cr	or	1.2
	Hastings	7.4	*	*	62	51	b.bc.c	tkr	0.6
	Eastbourne	8.5	Trace	2	62	52	o.bc.or	or.bc.o	2.3
	Seaford								
	Brighton								
	Worthing	7.5	–	2	64	49	bc.rh	bc.br.e	2.0
	Littlehampton								
	Bognor								
	Bournemouth	10.5	*	*	65	49	bc	bc	9.5
England, S.W.	Weymouth	–	*	*	67	48	bc.b	b.bcy	10.0
	Torquay	9.7	Trace	2	60	51	gp	b	
	Paignton								
	Penzance	7.6	2	1	58	47	cp	bc	7.6
	Newquay	10.1	Trace	2	60	51	gp	b	9.5
	Bude	1.0	2	–	61	50	b	b	12.0
	Ilfracombe	·	–	–	?	49	b	b	10.1
	Weston-s-Mare	–	*	*	63	49	bc.b	b	10.1

REPORTS FROM FOREIGN STATIONS FOR Friday, 22nd June

	STATIONS.	Evening of 21st. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 22nd. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Gorki														*	
	Velieki Luki	1016.3	44	SSE	1	0	1014.1	*	44	+1	S	1	b	–	*	64
	Hangö														*	
	Riga	1013.6	81	-	0	b	1013.7	+1	45	-2	SSE	1	b	–	*	68
	Petrograd	1012.7	45	W	1	b	1013.9	0	45	+3	SSE	2	b	–	86	64
	Moscow	1015.8	47	WNW	2	b	1017.3	+1	43	+3	WNW	2	b	–	*	66
	Kiev						1017.3	+1	40	0	S	1	b	–	*	?
	Kharkov						1020.2	+1	63	0	NE	1	b	–	*	48
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev	1016.0	42	-	0	bc	1017.6	*	68	0	NE	2	b	–	*	61
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice						1013.0	*	47	+2	W	1	b	–	45	59
	Pesaro						1015.4	*	45	0	S	1	b	–	82	70
	Rome	1018.7	43	E	1	b	1017.4	*	49	0	S	1	c	–	84	70
	Viesti	1016.6	47	-	0	b	1015.8	*	49	-2	N	1	m	–	86	42
	Brindisi	1017.0	41	S	1	b	1016.9	*	48	-11	SW	1	b	–	92	66
	Cagliari	1013.6	49	SSE	5	b	1012.6	*	49	+1	SW	1	o	–	81	57
	Palermo	1017.4	47	-	0	b	1019.7	*	45	+7	-	0	b	–	84	59
	Tripoli						1017.9	*	41	+10	S	1	b	–	91	43
	Algiers	1018.7	42	WNW	5	b	1020.3	+1	40	-2	W	1	b	–	86	64
Sweden.	Hernösand	1007.9	64	–	0	0	1005.6	*	42	+8	-	0	b	*	*	*
	Stockholm	1006.9	49	?	?	b	1005.7	*	40	-1	SE	2	b	*	*	*
	Wisby	1008.0	82	?	?	b	1005.6	*	47	-5	S	4	b	*	*	*

Iceland.	Morning of 22nd. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1001.6	43	-5	N	2	f
Reykjavik	999.6	41	-9	E	1	r
Vestmanna						
Seydisfjord	1002.3	43	+4	-	0	f
Thorshavn	1010.4	45	0	-	0	b

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

22nd & 23rd June 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.32	11.55	8.18
	3.32	11.55	8.18
Greenwich	3.45	12.2	8.19
	3.45	12.2	8.19
Wick	3.8	12.14	9.20
	3.8	12.14	9.20
Valencia	4.23	12.43	9.3
	4.23	12.43	9.3

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.

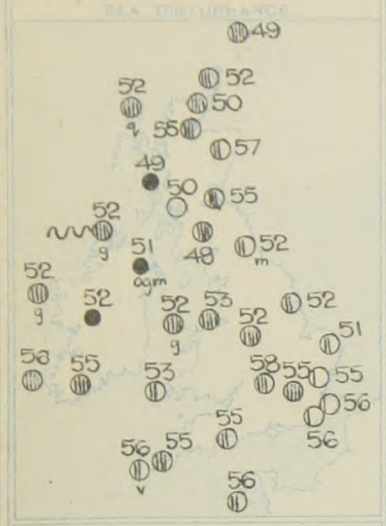
The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O.

‡ The barometric change is expressed in half-millibars.

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

THE MORNING OF SATURDAY, 23RD JUNE, 1917.

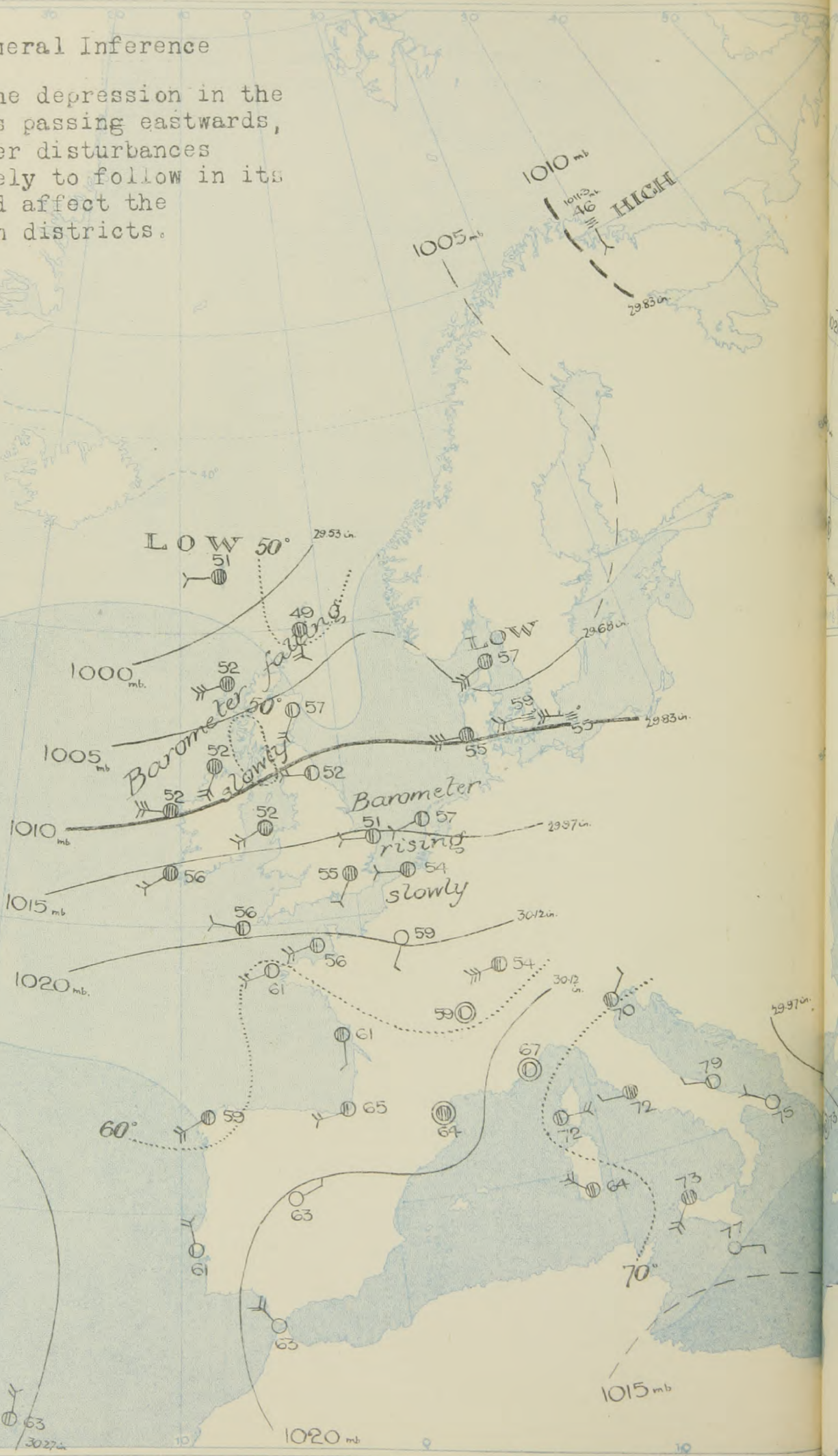
TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.

General Inference

The depression in the North is passing eastwards, but other disturbances are likely to follow in its rear and affect the northern districts.



EXPLANATION.

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

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

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

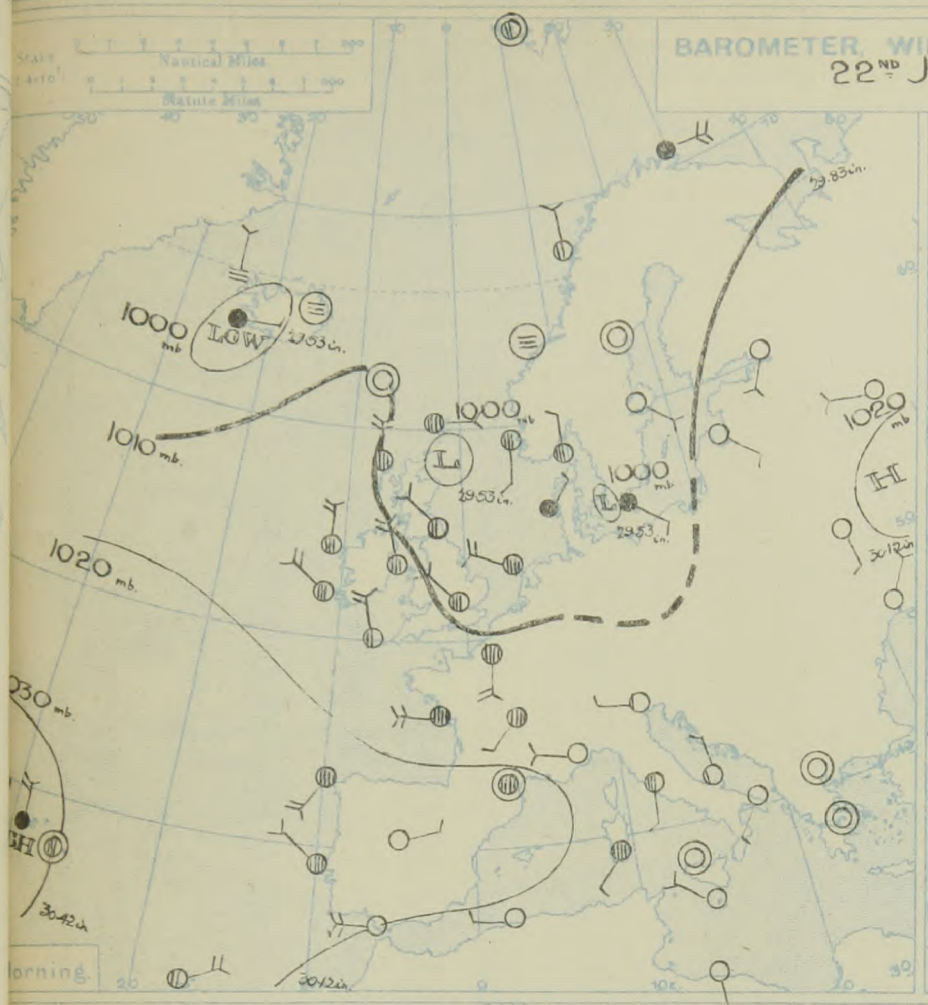
SEA DISTURBANCE.—Rough ~~ High ~~.

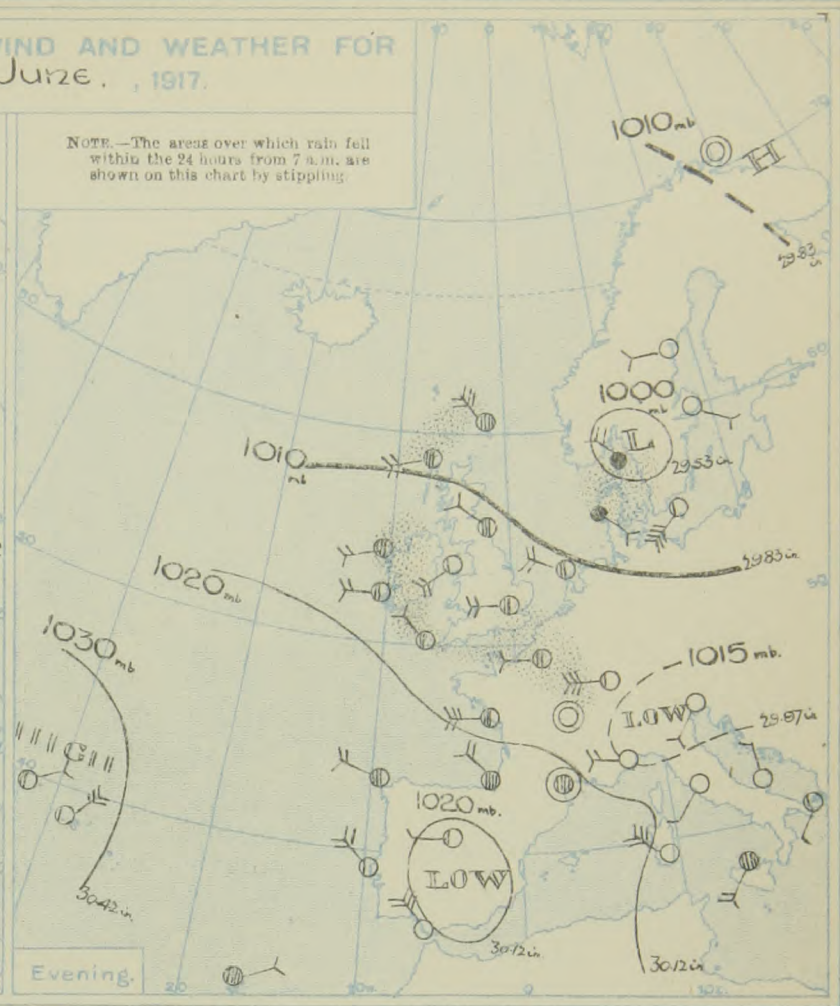
Scale 1 : 2 : 10
Nautical Miles 0 1 2 3 4 200
Statute Miles 0 1 2 3 4 200

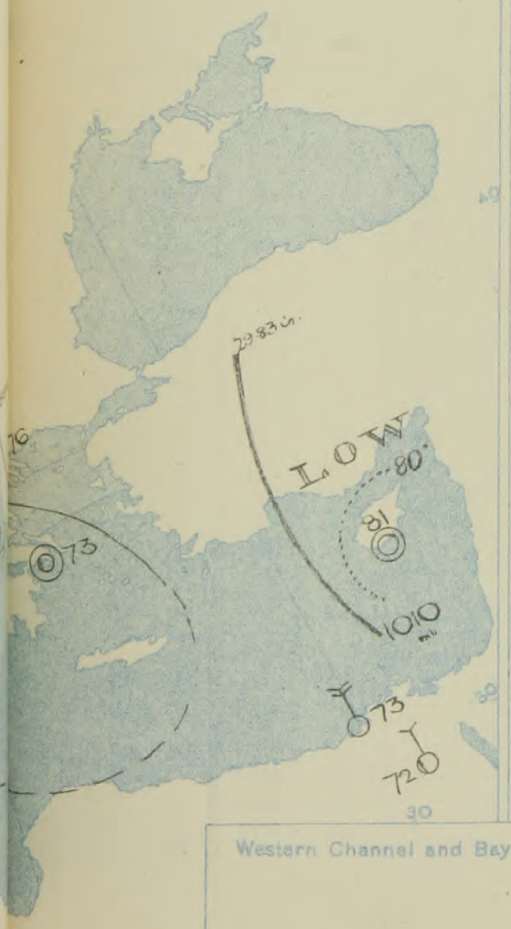
Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 22ND JUNE, 1917.

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







Western Channel and Bay.

Forecasts 18h. Saturday to 18h. Sunday

0 a, b; 1; 2 a, b	Moderate or fresh winds between SW. and W; unsettled, some rain at times; cold.
3; 4 a, b, c; 5	Moderate winds between SW. and W; fair generally, but some showers; cool.
6 a, b; 7 a, b	Same as Nos. 0, 1 and 2.
8 a, b	Moderate SW. or W. winds; fair generally but some showers; cold.
9 a, b; 10 a, b	Same as Nos. 0, 1 and 2.
11	Light or moderate W. or NW. winds; slight sea; fair.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 174. {Saturday 23rd June

	STATIONS	EVENING OF 22nd: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather	MORNING OF 23rd: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 22nd. Hours.
BRITISH ISLANDS.	Lerwick ...	1004·0	48	NW	6	om	1002·0	−1	49	−1	S	3	-	o	3	2	54	48	om	odm	odm	*
	Deerness (Orkney)	1007·8	50	NW	5	bc	1002·0	*	52	+6	S	4	SW	c	4	1	52	45	df.d.o	o c.bc	o.c.bc	3·7
	Stornoway ...	1009·8	53	WSW	4	cq	1002·1	−2	52	+5	WSW	5	-	oq	4	4	57	47	o.bc	bc.cq	opq	10·0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1011·4	55	W	4	b	1008·7	−3	50	+1	SW	3	-	o	*	-	57	46	o.c.bc	bc	b.bc.c	12·4
	Eskdalemuir ...	1010·4	52	W	4	bv	1010·7	−2	48	−2	SSW	2	-	o	*	-	60	39	c.o.c	c.bv	b.bc.o	7·5
	Malin Head ...	1013·2	63	NW	4	bc	1006·6	-	52	+2	SSW	4	-	ogq	5	0·4	55	49	bc	bc	ogp	6·6
	Blacksod Point	1014·8	54	WSW	3	cg	1009·8	−1	52	+2	W	5	-	og	4	1	57	49	cg	bc	cg.odm	*
	Valencia (Cahirciveen)	1015·7	58	W	3	bc	1015·5	−1	56	+2	SW	3	-	o	4	-	60	52	c.bc	b.bc	bc.c.o	11·4
	Roche's Point	1017·1	62	NW	3	c	1016·3	*	55	+2	WSW	3	-	o	3	2	62	50	cpg	cpg	o	*
	Birr Castle ...	1016·1	57	W	1	c	1012·8	*	52	+1	SW	2	-	r	*	1	59	50	c	cp	c.om	3·5
	Donaghadee ...	1013·9	51	N	2	bc	1010·2	−3	51	+1	SW	3	-	ogm	3	0·2	53	46	cqm	cgm	bcmog	*
	Liverpool (Bidston)	1014·4	54	W	3	b	1012·7	0	53	+2	SW	2	W	o	2	-	56	49	bc	bc	cd	9·1
	Holyhead ...	1014·7	57	SW	4	b	1013·6	−2	52	−1	SW	4	W	og	3	1	60	50	c.bc	bc.b	cp.o	11·5
	Pembroke (St. Ann's)	1016·7	54	WSW	3	c	1017·2	0	53	−1	SW	2	SW	bc	1	-	57	52	c	c	bc	12·3
	Scilly (St. Mary's)	1018·8	53	NW	2	bcv	1019·8	0	56	+1	WNW	2	W	bcv	4	0·1	61	53	bcv	bcv	bcv	13·2
	Falmouth ...	1017·9	60	WNW	4	b	1018·9	0	55	+2	WSW	3	-	c	*	2	63	48	bcp.bc	bc.b	b.bc.c	11·6
	Jersey (St. Aubin)	1017·3	60	NW	3	b	1020·3	*	56	0	WSW	4	W	bc	3	1	62	49	b	b	bwqp.b	14·1
	Portland Bill ...	1014·5	58	W	4	bc	1017·4	0	55	0	W	4	-	bc	3	-	59	51	bc	bc	bc	*
	Dungeness ...	1013·7	55	WSW	4	r	1016·8	+2	56	+4	NW	2	NW	b	2	20	67	45	c.tbr	r.tbr	bc	*
	Dover	1014·3	53	SW	4	o	1017·9	+3	56	+7	NW	1	W	b	2	26	60	46	c.or	or	b	4·2
	Wick	1008·6	50	NNW	5	c	1002·7	−4	50	+4	WSW	3	-	o	3	-	52	47	opmq	om.cg	bcq.o	*
	Nairn	1009·8	51	W	1	bc	1004·1	*	55	+8	-	0	-	c	1	-	58	45	cg	c.bc	bc	7·5
	Aberdeen ...	1009·2	56	NW	5	b	1005·7	−3	57	+6	SSW	3	W	bc	2	-	57	45	bcq.c.o	c.bcq.b	b.bc	10·3
	Leith	1009·6	61	WNW	1	bc	1007·6	−2	55	+4	WSW	2	W	c	2	-	61	46	c.bc.b	b	bc.b.w.c	*
	Tynemouth ...	1010·2	53	NW	2	cmp	1011·4	0	52	−1	W	3	W	bcm	2	-	60	44	c.bc.c	b	bcm	*
	Spurn Head ...	1012·5	54	ESE	1	c	1013·6	0	52	−2	W	4	-	bc	3	Trace	63	47	op	cmp	bc	3·2
	Yarmouth (Gorleston)	1011·7	57	SE	3	bc	1015·5	+2	51	−2	W	2	-	bc	2	-	66	45	c	cp	c.bc	5·4
	Clacton-on-Sea	1012·3	61	SW	3	c	1016·5	+2	55	−1	WNW	3	-	b	2	1	65	46	cg	cg	cg.op.b	6·3
	Nottingham ...	1013·1	57	WNW	4	b	1014·6	*	52	+1	W	2	W	o	*	-	60	44	bc.c	c.b	b	6·5
	Benson (Oxon.) ...	1014·3	52	W	1	o	1015·8	+1	58	+5	WSW	3	-	c	*	1	67	37	bc	pq.r	cvw	*
	Sth Farnborough	1013·5	62	NW	3	c	1016·6	0	56	+3	WSW	2	-	o	*	1	67	41	cp.c	cpb.c	cp.o.bc	6·7
	London (Kew Obsy.)	1014·1	60	W	4	bc	1017·0	0	55	+1	SSW	2	-	o	*	Trace	66	47	mq.c.o	cv.op.bc	bc.m.o	5·2
NORTHERN EUROPE.	Spitsbergen ...																					
	Vardö	1010·3	46	-	0	o	1011·3	−3	46	+5	S	2	—	f	2	*	45	37				
	Bodö																					
	Christiansund ...																					
	Skudesnaes ..																					
	Færder (X'tiania Fjord)																					
	The Scaw (Skagen)	999·9	59	NW	3	r	1001·0	+1	57	−6	SW	6	—	o	6	5	64	54				
	Blaavands Huk	1006·0	55	SSE	2	r	1009·9	?	55	0	W	5	—	o	?	18	57	52				
	Copenhagen ...	1004·3	59	WSW	6	c	1008·8	+2	59	−5	W	4	—	m	*	3	68	55				
	Bornholm ...	1005·9	63	WSW	7	b	1010·0	+3	55	−15	WNW	5	—	m	1	2	75	54				
FRANCE, &c.	The Helder ...	1010·3	57	WNW	4	bc	1013·7	+1	57	0	WSW	2	—	bc	1	—	61	55				
	C. Gris Nez ...	1014·1	55	SW	5	c	1017·5	+2	53	0	W	3	*	bc	2	11	57	52				
	La Hève	1016·3	58	WNW	5	bc	1019·0	*	55	+5	WNW	4	*	b	3	5	61	52				
	Brest (St. Mathieu)	1020·0	61	NW	3	bc	1022·4	+1	61	+2	WSW	3	*	b	3	—	63	55				
	Rochefort (Ile d'Aix)	1019·9	63	W	5	c	1022·4	+1	61	+1	S	1	*	c	*	—	70	59				
	Biarritz	1021·6	64	NW	3	o	1023·1	+1	65	—	WSW	3	*	bc	2	1	68	59				
	Paris	1016·7	63	W	2	bc	1019·9	+1	59	+5	SSW	1	—	b	*	Trace	66	48				
	Belfort	1019·0	61	W	6	b	1022·0	*	54	—	WSW	6	*	c	*	?5	65	50				
	Lyons	1019·3	64	—	0	c	1022·0	*	60	+6	—	0	*	b	*	—	73	52				
	Nice	1012·6	73	W	3	b	1016·3	0	67	+16	—	0	*	b	2	—	84	55				
	Perpignan ...	1020·7	66	—	0	o	1022·6	+2	64	+1	—	0	—	o	*	—	75	55				
	Sanguinaire ...	1020·8	70	NW	3	b	1020·2	*	72	0	E	3	*	bc	4	—	82	64				
SOUTHERN STATIONS.	Corunna	1022·9	63	WNW	3	c	1023·8	+1	59	−2	SW	4	—	c	2	?	64	54				
	Madrid	1017·0	75	W	1	b	1019·3	+1	63	+4	NE	1	—	b	*	—	77	55				
	Lisbon	1022·9	66	NW	4	b	1022·1	0	61	−5	NNW	3	—	b	5	—	72	59				
	Azores (Horta) ...	1031·4	*	NE	5	b	1031·1	0	62	+1	—	0	*	o	1	1	66	61				
	Madeira	1026·1	68	NE	2	o	1025·9	0	63	0	N	3	—	bc	3	—	68	63				
	Gibraltar	1020·0	67	NW	5	b	1019·3	*	63	−1	NW	4	*	b	3	—	82	60				
	Malta	*	*	*	*	*	1016·3	0	77	+2	ESE	1	—	b	0	—	86	72				
	Limassol	*	*	*	*	*	1007·7	0	81	+18	—	0	—	b	0	—	90	61				
	Alexandria ...	1011·5	73	N	4	b	1011·4	0	73	−2	N	4	-	b	2	-	81	70				
	Cairo (Helwan) ...	1010·0	79	NW	3	b	1011·1	+3	72	0	N	2	-	b	*	-	90	68				

RAINFALL

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 22nd %	Humidity. 9 h. 23rd %	Sunshine for 22nd Hours.	24 Hours ended 9 h. 23rd. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	47	63	4·6	68	45	30	—	c	c.or	or.o
CITY (Bunhill Row)	*	*	5·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	51	71	6·6	69	46	41	Trace	w.bc	bc	bcd.bc
CAMDEN SQ. (British Rainfall) ..	54	67	6·7	70	46	45	—	bc	bc.c	*
HAMPSTEAD (Reservoir)	*	70	7·9	64	44	34	1	c	bcp	bc
S. KENSINGTON (Museum Grounds)	*	69	7·3	68	48	41	—	bc.o.c	bc.c	c.b.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 22nd

Total. Joules.	Average Rate. Milliwatts.	Max. Rate. Milliwatts.
1603	26·9	? 83

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

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

Issue No. 20,303 DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. { Sunday 24th June

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON Saturday 23rd June 1917.

A good deal of rain fell in the North and West, where the day was generally dull. In the South-West sunshine was more plentiful. Temperature did not exceed 55° in many of the northern parts of the country.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Saturday 23rd June UP TO 17 H.

	STATIONS.	Sunshine for 22	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 23
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	10·1	2	3	54	47	or	bc p	0·5
	Banff		–	1	60	41	bc r	c. bc	4·7
	Montrose	6·6	–	–	63	42	b	o	2·5
	St. Andrews								
	Carnoushe	*	*	*	61	51	o. c	op. c	3·7
Eng. N.E.	Harrogate	3·1	–	–	57	40	bc. c. o	o	2·1
	Skegness		–	–	63	40	bc. o	bc. o	3·8
Eng. N.W.	Morecambe								
	Southport	7·7	–	–	61	51	o	o. c. o.	0·1
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	12·5	0·3	–	64	46	bc. c	bc	1·3
Wales.	Rhyl								
	Colwyn Bay								
	Llandudno		*	*					
	Aberystwyth	1·6	*	*	59	50	or. c	c. bc	0·1

	STATIONS.	Sunshine for 22	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 23
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft								
	Felixstowe	7·4	0·3	–	64	47	bc. c	c. bc	5·9
	Walton-on-Naze								
	Southend-on-Sea	5·6	–	–	65	49	bc. c. o	c. op	5·0
England, S.E.	Margate	1·8	3	0·1	65	52	b. bc. c	cp	5·3
	Hastings	0·6	1	–	62	47	or. bc. b	b. bc	6·6
	Eastbourne	2·8	0·3	–	61	49	b	bc	6·2
	Seaford				60	45	b. o	o. bc	5·9
	Brighton		1	–	60	47	o	o. c	5·8
	Worthing	3·2	1	–	61	44	bc. c	bc. b	4·8
	Littlehampton		–	–	62	49	o	b. c	5·4
	Bognor								
	Bournemouth	10·5	–	–	65	48	c	c	6·0
England, S.W.	Weymouth		*	*					
	Torquay								
	Paignton		–	–	67	49	bc	o	6·0
	Penzance	9·7	–	–	65	52	bc	bc	5·0
	Newquay								
	Bude	14·1	2	–	63	53	b	b	6·6
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Saturday 23rd June

	STATIONS.	Evening of 22nd: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 23rd: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1012·7	64	NE	1	o	1011·5	0	61		W	3	b		*	54
	Gorki	1017·1	73	–	0	b	1017·7		66		–	0	b	–	*	57
	Velieki Luki						1014·4	*	73	-1	SSE	1	c	–	*	63
	Hangö	1007·3	70	ESE	2	bc	1007·9	+2	59		WSW	3	o	–	*	57
	Riga	1007·7	79	ESE	2	bc	1013·0	+2	64	-11	SSW	1	r	–	*	64
	Petrograd	1011·9	82	–	0	b	1011·5	0	73	-2	SSE	2	b	–		66
	Moscow	1016·6	79	WNW	2	b	1018·1	+2	75	+2	–	0	b	–	*	66
	Kiev	1003·5	73	ESE	2	b	1017·9	+1	70	0	W	2	b	–	*	63
	Kharkov	1016·8	70	–	0	b	1016·8	+1	70	+7	–	0	b	9	*	59
	Kishinev						1016·0	0	64		E	1	b	–	*	54
	Elisabetgrad	1011·4	66	NW	2	c	1017·3	0	68		ESE	2	b	–	*	54
	Nicolaiev	1017·2	70	–	0	b	1017·7	*	68	0	N	2	b	–	*	61
	Odessa	1017·1	73	ESE	2	b	1017·3	+1	72		ESE	2	b	–	*	64
	Tarkhankout	1015·9	66	–	0	b	1017·0	*	73		NNE	4	b	–	*	59
	Sourhoum														*	
Mediterranean.	Venice	1013·4	77	SSW	2	b	1016·5	*	70	-7	–	0	c	–	82	66
	Pesaro	1016·1	73	–	0	b	1017·8	*	72	-3	–	0	bc	–	88	64
	Rome	1018·1	73	SW	1	b	1019·3	*	72	-7	–	0	o	–	82	64
	Viesti	1016·2	77	N	1	b	1016·1	*	79	0	WNW	1	b	–	82	72
	Brindisi	1015·0	79	SW	1	b	1015·8	*	75	+7	NW	2	b	–	90	68
	Cagliari	1017·3	75	NW	5	b	1017·5	*	64	-5	NW	4	c	9		
	Palermo	1019·4	72	SW	3	o	1019·4	*	73	-2	SW	4	o	–	91	63
	Tripoli						1015·9	*	84	-7	–	0	b	–	99	75
	Algiers															
Sweden.	Hernösand	1002·9	63	W	2	b	998·4	*	59	-13	SSE	2	bc	*	*	*
	Stockholm	1003·0	73	SW	2	b	1004·7	*	64	-6	SW	4	o	*	*	*
	Wisby	1002·0	70	S	6	bc	1007·9	*	64	-13	SW	6	bc	*	*	*

Morning of 23rd.

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1010·4	41	-2	NE	7	o
Reykjavik	997·6	50	+9	NE	8	bc
Vestmanna						
Seydisfjord	1001·6	37	-6	NE	5	r
Thorshavn	997·2	51	+6	–	0	bc

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

24 & 25 June 1917.

	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·32 / 3·32	11·55 / 11·55	8·18 / 8·18
Greenwich	3·45 / 3·45	12·2 / 12·2	8·19 / 8·19
Wick	3·8 / 3·8	12·14 / 12·14	9·20 / 9·20
Valencia	4·23 / 4·23	12·43 / 12·43	9·3 / 9·3

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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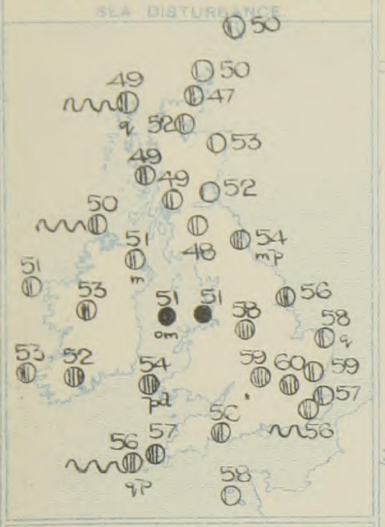
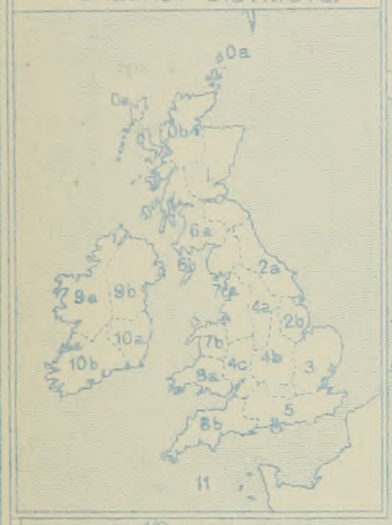
‡ The barometric change is expressed in half-millibars.

THE MORNING OF Sunday, 24th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



FORECAST DISTRICTS.



General Inference

No important change from present conditions is indicated

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 39 — 1015 mb — 1020 mb — 1025 mb — 1030 mb

LOW — 1000 mb — 1005 mb — 1010 mb

2997 in. — 2983 in. — 2968 in. — 2953 in. — 2983 in.

40° — 50° — 60° — 70° — 80°

Barometer rising — Bar. falling slowly

30·42 in. — 30·27 in. — 30·12 in.

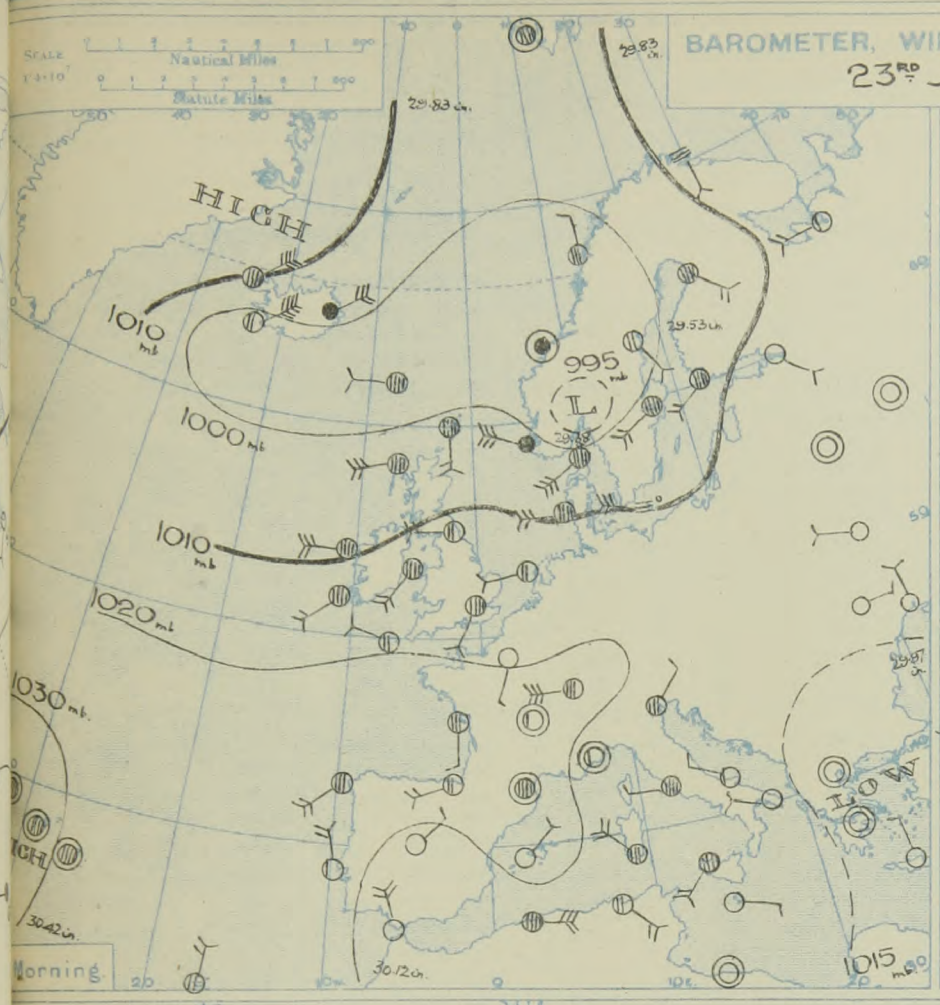
SCALE 1:22·10°
Nautical Miles 0 1 2 3 4 300
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

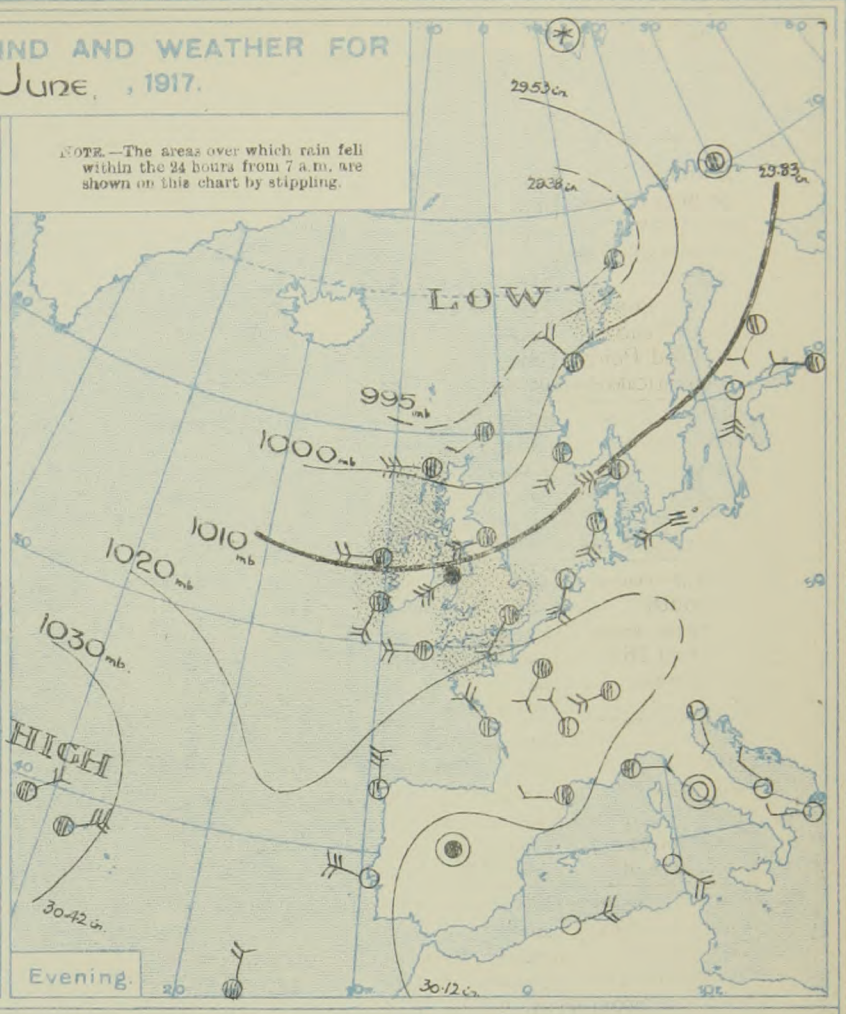
Below 50° | 50°-60° | 60°-70° | Above 70°

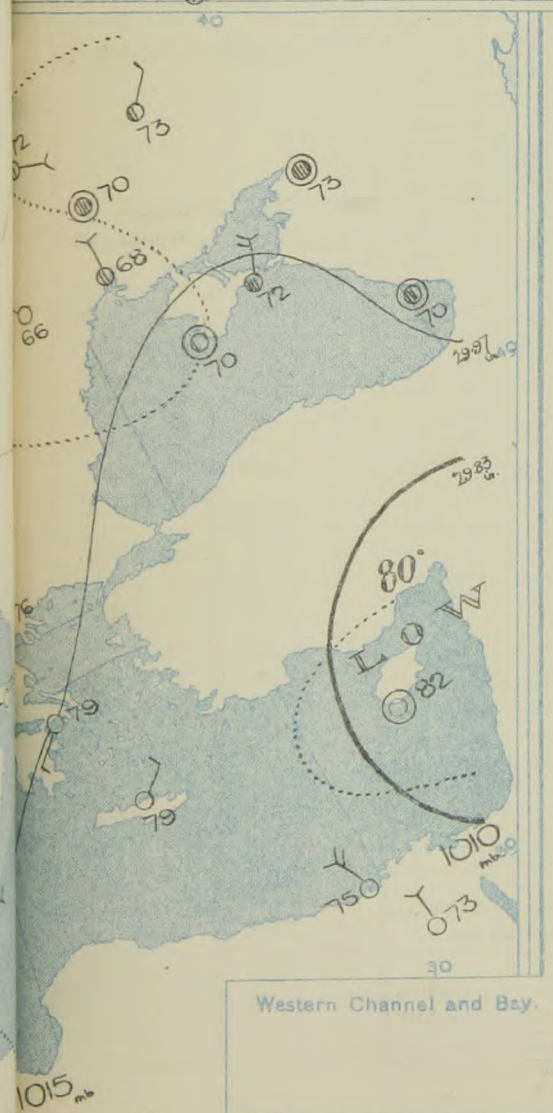
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 23RD June, , 1917.



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





Forecasts 18h. Sunday to 18h. Monday

0 a, b; 1; 2 a, b; 3	Moderate or fresh winds between SW. and W. Unsettled, showery, cool.
4 a, b, c; 5; 6 a, b; 7 a, b	
8 a, b; 9 a, b	Moderate winds between SW. and W; fair, some showers, cool.
10 a, b	
11	Western Channel. Moderate SW. or W. winds, moderate sea; fair, some showers. Bay. Light indefinite breezes; slight sea, fair.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 175. {Sunday, 24th JUNE.

	STATIONS	Evening of 23rd: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 24th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 23rd. Hours.
BRITISH ISLANDS.	Lerwick ...	997·2	49	SW	1	om	999·1	+1	50	+1	S	3	SW	bc	3	8	54	46	or	or	c.bc	
	Deerness (Orkney)	996·9	50	S	3	or	999·0	*	50	-2	S	5	SW	b	4	7	52	44	c.or.o	or	or.c bc	3·2
	Stornoway ...	999·2	52	W	6	cq	996·1	-1	49	-3	WSW	6	–	bcq	5	9	56	45	opq	op.cq	bcpq	3·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1004·4	52	SW	4	omr	1005·6	+1	49	-1	SW	5	W	cv	*	3	53	45	omd	omr	br.bc.c	0·6
	Eskdalemuir ...	1005·7	52	WSW	5	omr	1007·3	+1	48	0	SW	5	SW	bc	*	12	53	44	0.orm.o	o.orm	or.o.bc	0·4
	Malin Head ...	1005·0	55	WSW	4	bcq	1006·1	*	50	-2	W	6	W	bc	6	9	55	46	cmqd	omqr	bcqp	2·7
	Blacksod Point	1004·0	52	W	4	cq	1004·5	+2	51	-1	W	4	W	bc	4	2	54	48	omd	omp	cq bcp	
	Valencia (Cahirciveen)	1013·5	55	SW	4	o	1014·1	+3	53	-3	WNW	3	NW	c	3	6	59	51	od.o	od.o	or.o.c	0·0
	Roche's Point	1013·7	59	SW	4	o	1013·0	*	52	-3	NNW	3	–	o	2	3	63	51	cq	o.c.o	op.o	
	Birr Castle ...	1010·2	59	SW	2	o	1012·2	*	53	+1	W	1	W	c	*	6	60	46	cm.o	op	or.c	1·8
	Donaghadee ...	1006·5	57	WSW	4	omqp	1007·8	+2	51	0	WSW	4	–	bcm	3	8	58	46	omqp	omqp	cmpq	
	Liverpool (Bidston)	1010·5	59	SSW	4	c	1010·4	0	51	-2	WSW	3	SW	r	3	2	63	51	o.c.o.bc	cq	or	1·5
	Holyhead ...	1010·3	54	SW	6	omm	1010·8	+2	51	-1	WSW	3	–	orm	2	17	56	50	o.c.bc	bc.c.o	or.cpr	2·2
	Pembroke (St. Ann's)	1015·5	56	SW	4	cq	1013·1	0	54	+1	SW	3	–	opd	2	1	57	53	bc.c.op	cqp	c.oqpd	0·1
	Scilly (St. Mary's)	1018·6	59	W	4	c	1015·9	-2	56	0	W	3	W	cqp	5	1	62	54	cv	cv.c	c.o.cpq	7·2
	Falmouth ..	1015·3	60	WSW	3	b	1015·1	-1	57	+2	SW	3	–	c	*	1	63	54	c.bc	bcy.b	b o.cp	6·4
	Jersey (St. Aubin)	1020·7	61	WSW	3	bc	1018·6	*	58	+2	SW	2	–	b	1	Trace	64	54	b.opc.b	b.bc	b	10·3
	Portland Bill ...	1017·3	56	SW	5	bc	1016·2	-1	56	-1	SSW	5	SW	c	4	–	?65	54	bc	c.bc	bc.c	
	Dungeness ...	1017·9	57	W	4	bc	1017·1	0	56	0	W	5	W	c	5	–	60	50	c	c.bc	bc	
	Dover	1017·6	56	SW	4	bc	1017·5	0	57	-1	SSW	5	S	bc	4	0·3	59	46	b.o	or.bc	bc.c	8·8
	Wick	997·5	48	–	0	r	999·6	-1	47	-3	WSW	4	–	bc	3	5	54	43	odm	oindp	omp.bc	
	Nairn	999·4	58	W	1	bc	1000·5	*	52	-3	SW	2	–	bc	1	2	62	43	cpq	cpq	bcq	5·5
	Aberdeen ...	1000·3	57	SSW	4	o	1003·1	0	53	-4	SSW	3	–	b	2	1	64	44	bc.orm	o.c.o	o.c.b	7·5
	Leith	1002·9	56	WSW	2	r	1004·2	0	52	-3	SW	3	SW	b	3	0·4	58	47	c.oq.o	oqp.o	cr.bc.b	
	Tynemouth ...	1007·0	59	WSW	4	omq	1007·9	*	54	+2	W	2	W	cmp	2	1	59	52	cmp	omq	cmp	
	Spurn Head ...	1011·7	61	WSW	5	cq	1011·7	0	56	+4	SW	4	–	cq	4	–	62	52	cq	cq	cq	5·6
	Yarmouth (Gorleston)	1014·6	61	WSW	3	c	1014·1	0	56	+7	SW	5	–	bcq	4	–	65	51	bcq	c	bcq	6·5
	Clacton-on-Sea	1015·8	61	SW	4	c	1015·9	0	59	+4	SW	4	SW	bc	4	0·1	62	53	b.bc.c.o	op.c	c.bc	5·3
	Nottingham ...	1012·7	59	SW	3	o	1011·5	*	56	+6	SW	4	SW	o	*	0·2	61	50	o.c	cp.o	o.c	2·6
	Benson (Oxon.) ...	1015·2	63	SSW	3	bc	1014·6	+1	59	+1	SW	4	–	o	*	1	65	53	or.c	bc	ou	
	Sth Farnborough	1016·2	60	WSW	3	o	1015·3	0	59	+3	SW	4	–	c	*	1	65	52	op.o	op.o	o.c	2·5
	London (Kew Obsy.)	1016·2	61	SW	3	o	1015·8	-1	60	+5	SSW	4	–	o	*	Trace	65	55	o.c.op.o	o.op	o.c.o	2·9
NORTHERN EUROPE.	Spitsbergen ...	1009·3	34	–	0	s	1006·2	0	36	0	N	1	*	ʃ	*	*	36	32				
	Vardö	1004·0	46	–	0	c	1002·6	0	37	+11	S	5	–	b	3	*	48	39				
	Bodö	993·3	54	SW	1	c	998·0	+2	48	-2	SW	4	–	o	2	?	63	46				
	Christiansund ...	1001·9	50	NW	3	o	1001·7	-2	50	0	SE	1	–	r	3	15	52	48				
	Skudesnaes ..	1004·6	55	SW	4	c	1006·1	+3	57	+5	WSW	3	–	bc	3	9	57	54				
	Færder (X'landa Fjord)	1004·0	55	WSW	6	c	1009·4	+2	57	0	S	6	–	o	4	8	64	54				
	The Scaw (Skagen)	1010·3	55	WSW	6	c	1013·1	+3	57	0	SSW	3	SW	bc	3	5	59	52				
	Blaavands Huk	1013·3	57	SW	4	bc	1015·0	*	61	+6	SSW	4	–	o	*	–	61	54				
	Copenhagen ...	1014·9	63	W	3	bc	1019·7	+2	61	+2	SW	4	–	b	*	2	64	54				
	Bornholm ...	1016·8	59	WSW	4	m	1021·3	+3	61	+6	WSW	2	–	m	1	–	63	54				
FRANCE, &c.	The Helder ...	1015·8	59	SSW	5	b	1016·4	+1	57	0	SW	4	–	c	3	–	61	57				
	C. Gris Nez ...	1016·7	56	SW	5	bc	1016·3	0	57	+4	SW	5	*	bc	4	–	57	52				
	La Hève	1019·8	58	WNW	4	b	1020·2	*	55	0	WSW	3	*	bc	2	–	63	52				
	Brest (St. Mathieu)	1021·4	60	WSW	4	c	1018·4	-1	61	0	SW	?5	*	bc	3	–	64	55				
	Rochefort (Ile d'Aix)	1022·3	66	NW	3	bc	1021·2	0	59	-2	SSE	3	*	c	*	–	72	55				
	Biarritz												*									
	Paris	1021·0	63	W	2	o	1021·0	0	62	+3	–	0	SW	b	*	–	66	48				
	Belfort	1023·4	55	WSW	4	c	1023·4	*	56	+2	ENE	5	*	b	*	1	64	43				
	Lyons	1021·2	66	NNW	2	bc	1021·2	*	59	-1	N	2	*	b	*	–	73	47				
	Nice	1015·3	67	E	2	c	1017·6	+1	66	-1	SW	1	*	b	1	–	75	57				
	Perpignan ...	1020·7	70	W	1	o	1020·4	+1	70	+6	–	0	–	b	*	–	79	59				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1023·3	64	N	5	bc	1022·0	0	63	+4	S	1	–	c	1	–	66	55				
	Madrid	1015·7	77	–	0	r	1023·3	+1	64	+1	E	1	–	b	*	–	79	54				
	Lisbon	1021·1	66	WNW	5	b	1020·7	0	64	+3	NNW	1	–	bc	*	–	72	59				
	Azores (Horta) ...	1031·9	*	NE	5	c	1030·0	+1	61	-1	NNE	3	*	o	1	–	66	61				
	Madeira	1026·0	70	N	3	o	1024·6	-1	63	0	NE	3	–	b	3	–	70	63				
	Gibraltar												*									
	Malta	*	*	*	*	*	1017·0	+3	77	0	E	2	–	c	1	–	88	72				
	Limassol	*	*	*	*	*	1009·0	+1	82	+1	–	0	–	b	0	–	86	?81				
	Alexandria ...	1012·2	73	N	3	b	1012·8	+1	75	+2	NNW	3	–	b	2	–	82	70				
	Cairo (Helwan) ...	1009·6	86	N	3	b	1012·4	+3	73	+1	N	2	–	b	*	–	93	66				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 23rd %	Humidity. 9 h. 24th %	Sunshine for 23rd Hours.	24 hours ended 9 h. 24th: Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	65	57	4·6	65	52	42	–	o	o	op.o
CITY (Bunhill Row)	*	*	3·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	72	74	4·2	64	54	52	–	bc.op	bc	bcue
CAMDEN SQ. (British Rainfall) ..	74	63	2·4	66	53	50	–	c.o	o	*
HAMPSTEAD (Reservoir)	*	70	4·1	62	51	41	Trace	bc	c.op	o.bc
S. KENSINGTON (Museum Grounds)	*	68		64	54	48	Trace	c.o	o	op.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 23rd

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1060	17·8	61

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

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

Issue No. 20,304 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { Monday 25th June

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

Some rain was measured at most stations, though the falls were for the most part light; Good sunshine measurements were general in the north. Temperature remained rather low.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR Sunday, 24 June UP TO 17 H.

	STATIONS.	Sunshine for 23rd	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 24th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	1·0	6	1	55	47	bc p	bc	9·8
	Banff	6·3	2	Trace	60	41	bc	bc. r	10·8
	Montrose	2·8	*	*	-	-	b	b	9·6
	St. Andrews								
	Carnoustie	*	*	*	64	51	c	c	10·5
Eng. N.E.	Harrogate	2·1	6	Trace	62	52	op. c	bc. b	2·3
	Skegness	3·8	-	11	67	54	0	0 .cp. r	1·8
Eng. N.W.	Morecambe								
	Southport	0·1	11	Trace	60	51	or. c. bc	b	5·5
Midland.	Leamington Spa								
	Malvern								
	Ross-on-Wye								
Wales.	Rhyl		14	2	61	50	cr	cp. bc	6·2
	Colwyn Bay	*	*	*	62	51	bc	b	
	Llandudno	*	*	*	61	50	or. c	b	6·9
	Aberystwyth	*	*	*	57	52	or. 0	c. bc	2·0
England. E.	Lowestoft								
	Felixstowe	6·0	-	-	67	55	bc	bc	4·6
	Walton-on-Naze								
	Southend-on-Sea								
England. S.E.	Margate		-	-	53	49	bc. c. b	b. bc. b	8·1
	Hastings		*	*					
	Eastbourne	7·5	-	-	64	54	b	b	9·0
	Seaford								
	Brighton								
	Worthing	5·9	-	-	65	57	bc	bc. c	8·2
	Littlehampton								
	Bognor								
	Bournemouth	6·0	-	-	63	54	c. 0	c. 0	2·2
England. S.W.	Weymouth		*	*					
	Torquay		Trace	1	62	57	0 p	op. c. 0	0·3
	Paignton								
	Penzance								
	Newquay		1	Trace	62	54	op. 0	0	0·3
	Bude								
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR Sunday, 24 June

	STATIONS.	Evening of 23rd. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 24th. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1011·7	75	SE	1	b	1013·6	+ 3	57	- 4	SW	2	b	-	*	66
	Gorki	1016·3	73	-	0	c	1020·3	?	68	+2	S	2	bc	-	*	59
	Velieki Luki						1020·8	*	68	- 5	WNW	3	0	-	*	61
	Hangö	1013·6	57	SSW	6	b	1018·4	+5	55	- 4	WSW	5	b	-	*	52
	Riga	1018·1	64	SW	1	b	1023·0	+1	64	0	SSW	1	b	-	*	52
	Petrograd	1015·5	64	NW	2	c	1020·8	+4	64	- 9	SW	3	b	-		59
	Moscow	1018·1	73	NNW	2	0	1019·8	+1	72	- 3	NNE	1	b	10	*	64
	Kiev	1016·4	73	W	2	b	1017·5	+1	72	+2	ESE	2	bc	-	*	63
	Kharkov	1017·5	72	NNE	2	0	1017·2	0	73	+3	NE	1	bc	-	*	63
	Kishinev	1015·8	73	SW	1	b	1018·3	+3	66	+2	NW	1	b	-	*	61
	Elisabetgrad	1015·9	73	NNE	1	c	1017·2	+2	70	+2	-	0	0	-	*	63
	Nicolaiev	1015·5	73	-	0	c	1016·2	*	68	0	N	2	b	-	*	61
	Odessa	1016·6	77	ESE	2	b	1016·9	+1	72	0	N	3	c	-	*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1014·6	72	S	1	b	1018·6	*	70	0	NE	1	b	-	77	64
	Pesaro	1016·1	73	-	0	b	1018·5	*	72	0	-	0	bc	-	84	64
	Rome	1018·1	72	-	0	b	1019·3	*	68	-4	-	0	0	-	82	61
	Viesti	1016·3	75	NNW	1	b	1017·7	*	77	-2	NW	1	b	-	82	68
	Brindisi	1015·4	73	NW	1	b	1016·7	*	73	-2	NW	1	b	-	75	72
	Cagliari	1017·3	77	SE	4	b	1016·3	*	63	-1	SSE	4	r	-	79	57
	Palermo						1018·7	*	72	-1	-	0	0	-	87	63
	Tripoli						1015·8	*	86	+2	-	0	0	-	81	63
	Algiers	1017·2	70	ENE	4	c	1020·3	+3	70	+3	-	0	0	Trace	72	66
Sweden.	Hernösand						1006·4	*	59		S	4	bc	*	*	*
	Stockholm						1016·2	*	63		SW	6	c	*	*	*
	Wisby						1019·6	*	64		WSW	6	b	*	*	*

Morning of 24th

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1019·1	39	+2	-	0	c
Reykjavik	1015·8	39	-11	NNE	4	c
Vestmanna						
Seydisfjord	10099	39	+2	NE	2	0
Thorshavn	9982	51	0	E	1	0

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

25 & 26 June 1917.

	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	3·32 / 3·33	11·55 / 11·55	8·18 / 8·18
Greenwich	3·45 / 3·45	12·2 / 12·2	8·19 / 8·19
Wick	3·8 / 3·8	12·14 / 12·14	9·20 / 9·20
Valencia	4·23 / 4·23	12·43 / 12·43	9·3 / 9·3

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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‡ The barometric change is expressed in half-millibars.

THE MORNING OF Monday, 25th JUNE, 1917.

GENERAL INFERENCE.

The barometer is rising generally and fair weather is probable over the British Isles.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

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

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

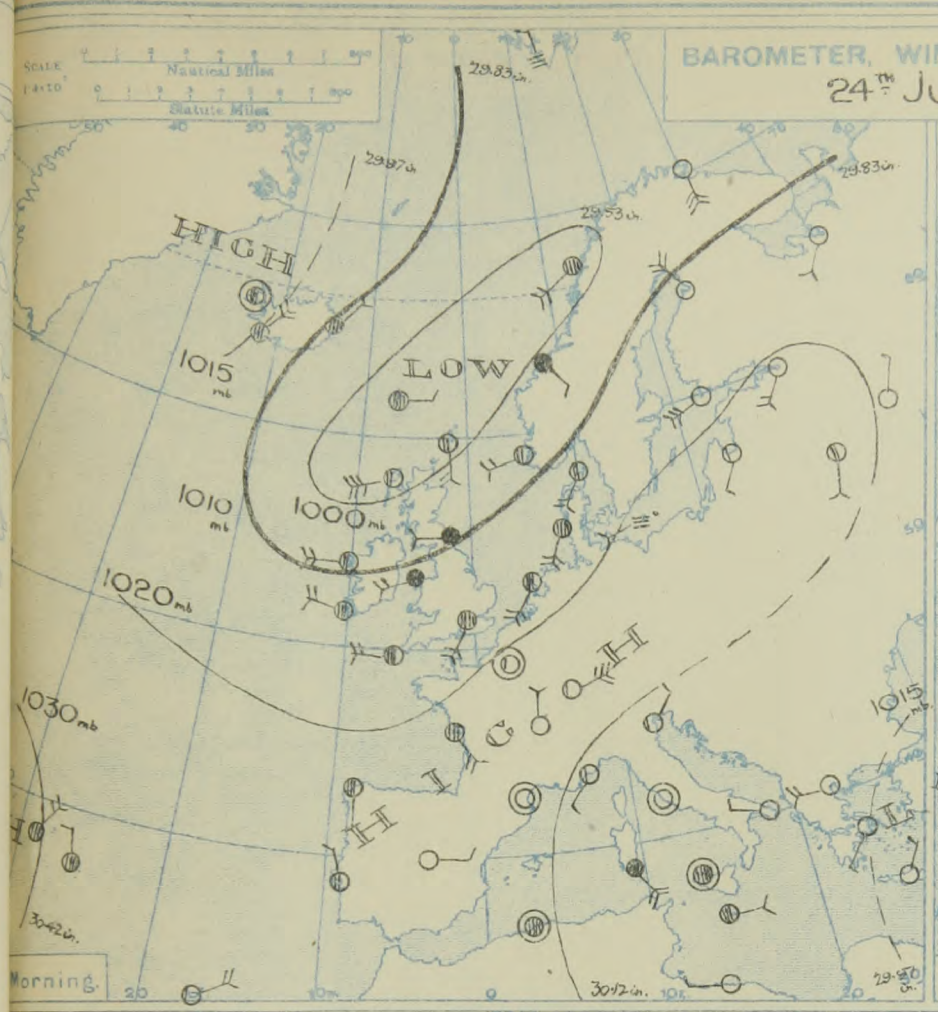
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky ● rain falling.
✕ snow. ▲ hail. ≡ fog. ≡° mist. T thunder.
Ts, thunderstorm.

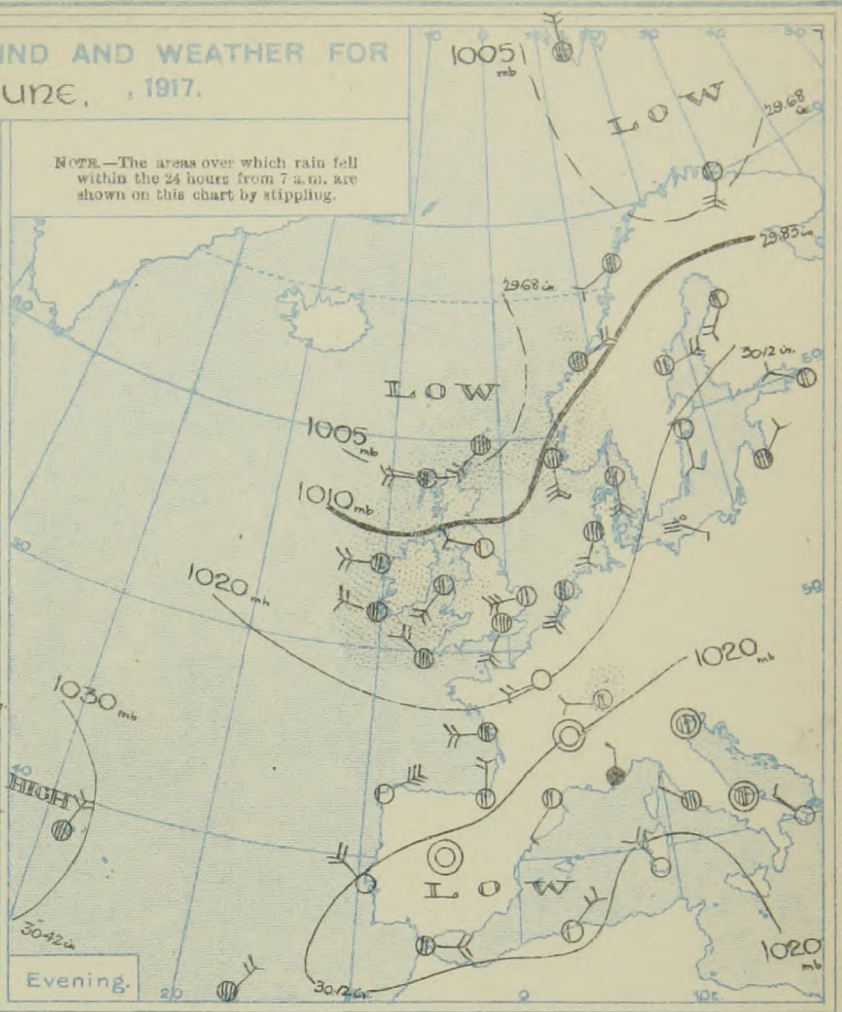
SEA DISTURBANCE.—Rough ~~~. High ≈≈≈

Scale 1 : 2·10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 ½ 2 3 ½ 500

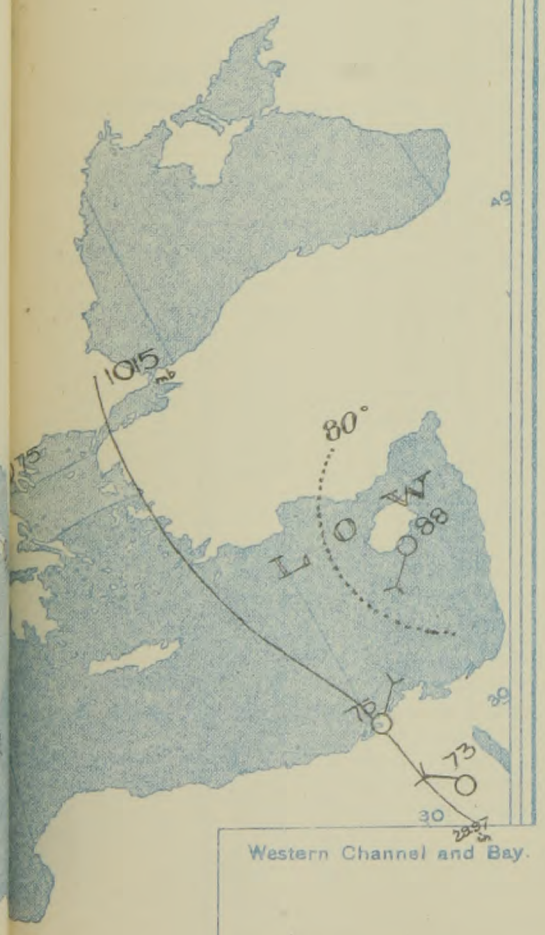
Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JUNE.

BAROMETER, WIND AND WEATHER FOR 24th June, 1917.





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



Forecasts 18h. Monday to 18h. Tuesday.

0 {a b} Moderate winds between West and NorthWest;
1 } cloudy, some showers; cool.

2 {a b}
3 } Light or moderate winds between South-West and
4 {a b c} West; fair generally, but some showers; improving
5 } cool.

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

7 {a b}
8 {a b} Light or moderate winds between West and North-
9 {a b} West; fair generally; cool.
10 {a b}

11 Light North-Westerly or indefinite breezes; smooth sea; fine.

FURTHER OUTLOOK.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 176. Monday, 25th JUNE.

	STATIONS.	EVENING OF 24-h. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	MORNING OF 25h. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for 24h.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1000·5	49	SW	4	o	1007·9	+1	50	0	SW	3	–	c	3	–	55	46	bc	bc.o	bc.c	*
	Deerness (Orkney)	1004·0	52	W	4	b	1009·5	*	49	−1	W	3	W	op	3	3	54	44	bc.tlph	bc	bc.cp.o	10·8
	Stornoway ...	1004·8	49	W	4	cpq	1013·0	+6	48	−1	NW	5	–	cq	4	10	53	44	bcpq	cpq	cpq	6·8
	Castlebay (Barra Isd.)																					
	Glasgow ...	1010·4	55	W	4	bc	1015·7	+2	48	−1	WSW	2	W	bc	*	1	58	43	bchrp	bcq	bc.b.op	11·4
	Eskdalemuir ...	1011·0	56	WSW	4	bv	1016·3	+2	50	+2	W	3	W	bvv	*	1	59	37	bc cp	bcqv	bv.bc	12·7
	Malin Head ...	1011·2	53	NW	5	bcq	1015·5	*	52	+2	NW	4	NW	bc	4	3	56	50	bcqp	bcq	bcp	10·2
	Blacksod Point	1014·5	53	W	4	bc	1017·6	+2	50	−1	WNW	2	W	bcp	2	1	57	47	bc	bcp	bc.bcp	*
	Valencia (Cahirciveen)	1017·3	56	WNW	3	c	1019·6	+2	54	+1	W	2	W	c	3	0·1	59	50	c.bc	bc.c	bc	8·1
	Roche's Point	1016·8	60	NNW	3	c	1019·7	*	51	−1	–	0	–	o	1	–	64	49	o.c	c.bc.c	c.o	*
	Birr Castle ...	1013·3	61	WSW	1	c	1018·2	*	51	−2	WSW	1	W	c	*	–	62	42	c	c	c	8·8
	Donaghadee ...	1012·2	52	ENE	3	bc	1016·3	+2	54	+3	W	2	–	bcm	1	2	61	44	bcpq	bcpq	bc.bcm	*
	Liverpool (Bidston)	1013·3	60	W	1	b	1017·2	+2	54	+3	SW	2	SW	o	2	4	61	51	r.o.b	b	b.o	7·4
	Holyhead ...	1013·9	56	SW	4	bc	1016·5	+2	52	+1	WNW	4	W	c	3	1	60	50	o.c.bc.b		bc.coc	3·7
	Pembroke (St. Ann's)	1015·6	54	W	1	b	1019·1	+3	53	−1	WNW	1	W	bc	2	2	55	49	op.cp	cp.bc.b	bc	5·5
	Scilly (St. Mary's)	1017·3	58	NW	3	o	1020·2	+2	56	o	NW	3	W	c	4	0·3	61	50	cp	c.op	c.bc.c	2·1
	Falmouth ...	1015·9	59	WSW	2	op	1019·4	+1	57	o	W	2	–	b	*	2	62	46	c.o	og.ogp	op.bc.b	0·5
	Jersey (St. Aubin)	1016·4	63	SW	2	og	1019·6	*	56	−2	WNW	2	–	r	1	1	67	56	b.bc	c.og	og.or	10·2
	Portland Bill ...	1015·9	56	SW	5	c	1018·2	+2	55	−1	NW	2	W	c	2	2	57	53	bc.c	c	cr.o	*
	Dungeness ...	1017·1	60	WSW	4	bc	1016·5	+1	59	+3	SW	3	SW	c	2	–	62	55	bc	bc	bcp.c	*
	Dover	1017·5	51	SSW	4	b	1017·9	+2	57	o	SW	4	SW	c	3	0·1	62	54	bc.b	b	b.bc.c	10·4
	Wick	1005·3	52	WSW	4	bcq	1005·8	+2	50	+3	WSW	3	–	bc	2	1	57	44	bcmp	bcmq	q.og.bc	*
	Nairn	1006·7	53	WSW	3	c	1012·0	*	51	−1	WSW	2	–	cq	1	0·3	58	43	pq.bc	pq.bc	bc	11·9
	Aberdeen ...	1007·3	52	WSW	4	bc	1013·2	+2	52	−1	WSW	3	–	o	2	–	63	44	bcq	bcq	bc.b.o	14·3
	Leith	1009·4	60	W	2	bc	1014·5	+2	52	o	W	2	W	bc	3	0·3	62	45	c.bcp.c	bc.b.bc	bc.bbc	*
	Tynemouth ...	1011·1	63	WNW	2	bq	1016·3	*	54	o	NW	1	W	bcm	2	–	64	49	bcmq	bcq	bcm	*
	Spurn Head ...	1013·2	54	S	3	or	1016·5	+1	56	o	W	2	–	b	3	7	66	51	cq.p	cq.or	bc	0·1
	Yarmouth (Gorleston)	1014·4	64	WSW	5	bc	1017·4	+3	57	−1	NNW	2	–	c	3	2	67	56	bcq	bcq	crq.bc	4·1
	Clacton-on-Sea	1015·7	63	S	5	bc	1017·9	+1	58	−1	SW	2	–	o	3	0·3	65	57	bc.c	c.bc	bc.opd	5·7
	Nottingham ...	1013·4	55	SW	1	r	1017·3	*	51	−7	WSW	1	SW	c	*	11	63	43	ep	o.cr	r.o.c	0·2
	Benson (Oxon.) ...	1014·3	60	SSW	4	o	1017·4	+3	56	−3	–	o	–	b	*	2	64	51	or	or	bc.b	*
	Sth Farnborough	1016·2	60	WSW	3	o	1015·3	o	59		SW	4	–	c	*	1	65	52	op.o	op.o	o.c	2·5
	London (Kew Obsy.)	1015·9	64	SSW	4	o	1018·1	+2	57	−3	S	2	–	om	*	3	66	55	o.c.o.cq	o.c.o	o.orm o	1·9
NORTHERN EUROPE.	Spitsbergen ...	1003·1	36	N	4	c	1001·9	o	37	+1	S	1	*	p	*	*	37	34				
	Vardö	1004·8	34	SSW	5	bc	1014·1	+2	35	−2	S	4	–	b	2	*	39	41				
	Bodö	1009·9	50	SW	2	c	1011·9	+2	34	+6	E	1	–	o	1	4	50	45				
	Christiansund ...	1008·0	34	NE	4	o	1012·2	+2	37	+7	–	o	–	b	3	–	35	46				
	Skudesnaes ..	1010·3	35	S	5	o	1013·2	+1	37	o	SE	5	–	b	4	Trace	37	34				
	Færder (X'landa Fjord)	1014·4	39	S	6	o	1016·7	+2	37	o	–	o	–	c	3	2	39	34				
	The Scaw (Skagen)	1017·0	37	S	4	c	1017·4	+1	37	o	S	3	–	bc	3	–	37	37				
	Blaavands Huk	1017·5	61	SSW	3	o	1017·6	*	64	+3	SW	4	W	c	*	–	66	37				
	Copenhagen ...	1020·0	63	S	3	c	1020·4	+1	64	+3	WSW	2	–	o	*	–	66	61				
	Bornholm ...	1021·6	39	ESE	1	m	1021·5	+1	66	+5	E	1	–	m	o	–	66	39				
FRANCE, &c.	The Helder ...	1017·1	61	SW	5	bc	1017·9	+2	39	+2	SW	4	–	o	2	–	63	35				
	C. Gris Nez ...	1017·9	38	SW	4	bc	1018·4	+1	62	+5	S	3	*	b	2	–	61	35				
	La Hève	1020·2	64	SW	1	c	1019·5	*	37	+2	SW	4	*	o	2	–	68	37				
	Brest (St. Mathieu)	1019·5	60	SW	3	o	1021·5	+1	37	−4	NW	3	*	c	2	–	63	34				
	Rochefort (Ile d'Aix)	1021·2	64	W	4	c	1022·2	+1	63	+4	SW	2	*	bc	*	–	73	37				
	Biarritz	1020·2	68	N	3	bc	1021·0	+1	66	–	E	1	*	bc	1	–	72	39				
	Paris	1019·0	66	WSW	3	b	1021·4	+1	63	+1	–	o	W	b	*	–	73	32				
	Belfort	1021·0	68	W	2	bc	1024·2	*	61	+5	?WSW	2	*	m	*	–	78	31				
	Lyons	1019·9	71	–	o	b	1023·0	*	62	+3	–	o	*	b	*	–	75	32				
	Nice	1019·6	63	N	1	r	1022·4	+2	66	o	S	1	*	b	o	Trace	75	65				
	Perpignan ...	1019·9	72	SW	1	bc	1021·6	+2	70	o	SW	1	*	b	*	–	80	37				
	Sanguinaire ...	1020·7	70	NW	1	bc	1022·7	*	72	–	E	3	*	m	3	–	78	63				
SOUTHERN STATIONS.	Corunna	1022·6	64	NE	6	b	1023·5	+2	61	−2	SSE	1	W	bc	2	–	66	35				
	Madrid	1018·4	79	–	o	b	1020·8	+3	66	+2	–	o	–	b	*	–	80	39				
	Lisbon	1020·0	70	NW	4	b	1021·4	+1	63	−1	NNW	3	–	b	2	–	73	39				
	Azores (Horta) ...		*				1032·2	+1	61	o	NE	4	*	o	2	–	68	61				
	Madeira	1022·9	70	NE	3	o	1023·7	o	63	o	N	3	–	o	3	–	70	63				
	Gibraltar	1020·3	68	E	4	bc	1020·0	*	68	–	SE	6	*	c	4	–	75	66				
	Malta	*	*	*	*	*	1019·2	+3	75	−2	E	3	–	c	2	–	86	73				
	Limassol	*	*	*	*	*	1011·4	+2	88	+6	SW	2	–	b	o	–	91	61				
	Alexandria ...	1013·1	72	NNW	3	b	1015·0	+2	75	o	NNE	2	–	b	1	–	82	70				
	Cairo (Helwan) ...	1011·8	86	N	1	b	1014·0	+2	73	o	NW	2	–	b	*	–	93	70				

LONDON OBSERVATIONS.

	Humidity. 15 h. 24h	Humidity. 9 h. 25h	Sunshine for 24h	24 Hours ended 9 h. 25h. Temperature. Max.	Temp. Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	53	85	3·8	70	56	52	3	o	o	o.or
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	71	88	2·3	61	56	?	3	bc.ou	o	odr
CAMDEN SQ. (British Rainfall) ..	–	77	2·4	68	56	56	3	–	–	*
HAMPSTEAD (Reservoir)	*	79	3·1	62	53	47	2	bc	c	or.c
S. KENSINGTON (Museum Grounds)	*	85	3·7	66	55	?	5	o	o	o.or.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 24h.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1265	21·2	82·5

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

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,305 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { TUESDAY 26TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON MONDAY, 25TH JUNE 1917.

Temperature was below the normal generally, remaining below 60° in many localities. Showers fell in various districts. Sunshine varied greatly, less than an hour in places, 12½ hours at Malin Head.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR MONDAY, 25TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 24TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 25TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban								
	Banff	12·7	–	–	55	45	c. bc	bc	?
	Montrose	11·5	–	1	64	41	b	b	6·7
	St. Andrews		–	Trace	64	42	b	c	9·8
	Carnoustie	*	*	*	67	54	b	b	10·4
England, N.E.	Harrogate	6·2	–	–	63	45	bc. b	bc. c	4·8
	Skegness	1·8	2	–	?	46	b	o	9·2
England, N.W.	Morecambe								
	Southport	8·6	–	–	60	50	bc. c. bc	c. bc. b	10·5
Midlands.	Leamington Spa								
	Malvern		Trace	–	63	46	bc	bc	5·0
	Ross-on-Wye		Trace	–	67	38	b. bc	bc. b	7·6
Wales.	Rhyl	8·7	–	–	57	48	bc. c. bc	bc. c. b	7·4
	Colwyn Bay	*	–	–	58	51	c	bc. b	8·9
	Llandudno	*	*	*	59	52	c	c. b	8·3
	Aberystwyth	*	*	*	59	51	or. c	b. bc	8·5

	STATIONS.	Sunshine for 24TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 25TH
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft		2	6	60	55	op	or	0·0
	Felixstowe	5·7	2	4	63	57	cp. bc	bc. cp	0·6
	Walton-on-Naze								
	Southend-on-Sea		–	5	65	57	or	o	0·0
England, S.E.	Margate	9·5	Trace	–	68	56	c	c	1·0
	Hastings		–	–	62	56	bc. o	bc. o	0·5
	Eastbourne	8·0	–	–	63	56	o. c	o. bc. o	0·5
	Seaford		–	–	61	55	of. or	c	0·7
	Brighton								
	Worthing	8·2	2	–	65	57	or. c	bc. b	4·0
	Littlehampton		–	–	63	56	b. c	b. c	4·3
	Bognor								
	Bournemouth	2·2	3	–	66	53	c. bc	c	7·0
England, S.W.	Weymouth		*	*	67	51	b	by	10·0
	Torquay								
	Paignton								
	Penzance		Trace	–	64	47	c. bc	bc	3·4
	Newquay	0·9	–	–	60	46	o	o. b. o. bc	8·7
	Bude		–	–	62	45	bc	bc	6·5
	Ilfracombe								
	Weston-s-Mare		*	*					

REPORTS FROM FOREIGN STATIONS FOR MONDAY, 25TH JUNE

STATIONS.	Evening of 24TH. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 25TH. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.					‡	°F.	°F.					°F	°F
Archangel	1022·9	55	WSW	2	bc	1024·0	+3	66	+ 9	–	·0	b	–	*	59
Gorki	1018·1	73	S	1	c	1020·3		66	– 2	E	1	o	–	*	61
Velieki Luki	1020·7	68	SE	1	o	1019·9	*	68	0	SE	2	o	3	*	59
Hangö						1024·0	0	59	+ 4	ESE	2	bc	–	*	50
Riga	1022·1	66	NE	2	o	1018·7	– 1	63	– 1	ESE	2	c	–	*	59
Petrograd	1023·8	64	NNW	2	bc	1025·1	– 1	61	– 3	E	3	o	–		57
Moscow	1020·4	66	NNE	1	c	1021·0	+1	70	– 2	E	1	b	1	*	59
Kiev	1017·5	72	–	0	c	1018·0	+1	70	– 2	SSE	3	b	3	*	64
Kharkov	1018·6	72	E	2	b									*	
Kishinev														*	
Elisabetgrad						1018·3		68	– 2	ESE	2	o		*	66
Nicolaiev	1017·2	68	NNE	3	bc	1019·3	*	70	+2	–	o	b	–	*	64
Odessa	1016·4	77	ENE	2	o	1018·1	+2	72	o	NNE	2	b	9	*	61
Tarkhankout	1017·2	68	–	0	b	1017·7	*	68		SSE	4	b	1	*	64
Soukhoum														*	
Venice	1018·3	73	–	0	bc	1016·1	*	73	+3	–	0	m	–	77	64
Pesaro	1017·9	72	–	0	c	1022·1	*	72	0	E	1	b	–	79	66
Rome	1019·9	70	NW	1	o	1022·2	*	68	0	N	1	b	Trace	81	59
Viesti	1017·4	75	–	0	c	1019·8	*	75	– 2	WNW	3	b	–	81	68
Brindisi	1017·4	73	NW	1	b	1018·3	*	75	+2	NW	4	bc	–	77	72
Cagliari	1023·9	75	NW	3	b	1025·7	*	70	+7	NW	4	b	4	79	59
Palermo						1022·2	*	73	+1	–	0	o	–	81	64
Tripoli						1017·4	*	70	– 16	WSW	2	m	–	93	68
Algiers	1021·1	70	NE	3	b	1021·1	+1	68	– 2	ESE	2	bc	–	77	63
Hernösand	1007·9	59	ENE	4	bc	1006·4	*	57	– 2					*	*
Stockholm	1020·6	66	S	2	b	1016·2	*	63	0					*	*
Wisby	1020·7	64	SSW	4	b	1019·7	*	64	0					*	*

RUSSIA 7 a.m. and 9 p.m. Local Time. MEDITERRANEAN: Greenwich Mean Time.

ICELAND.	Morning of 25TH. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1020·6	50	+ 11	–	0	c
Reykjavik	1019·9	48	+ 9	–	0	bc
Vestmanna						
Seydisfjord	1017·7	39	0	NE	3	c
Thorshavn	1007·4	49	– 2	N	4	o

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

26th-27th JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·33	11·55	8·18
	3·33	11·56	8·18
Greenwich	3·45	12·2	8·19
	3·46	12·3	8·19
Wick	3·8	12·14	9·20
	3·9	12·15	9·20
Valencia	4·23	12·43	9·3
	4·24	12·44	9·3

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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‡ The barometric change is expressed in half-millibars.

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THE MORNING OF TUESDAY, 26TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ~~~.

Scale 1:8·10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

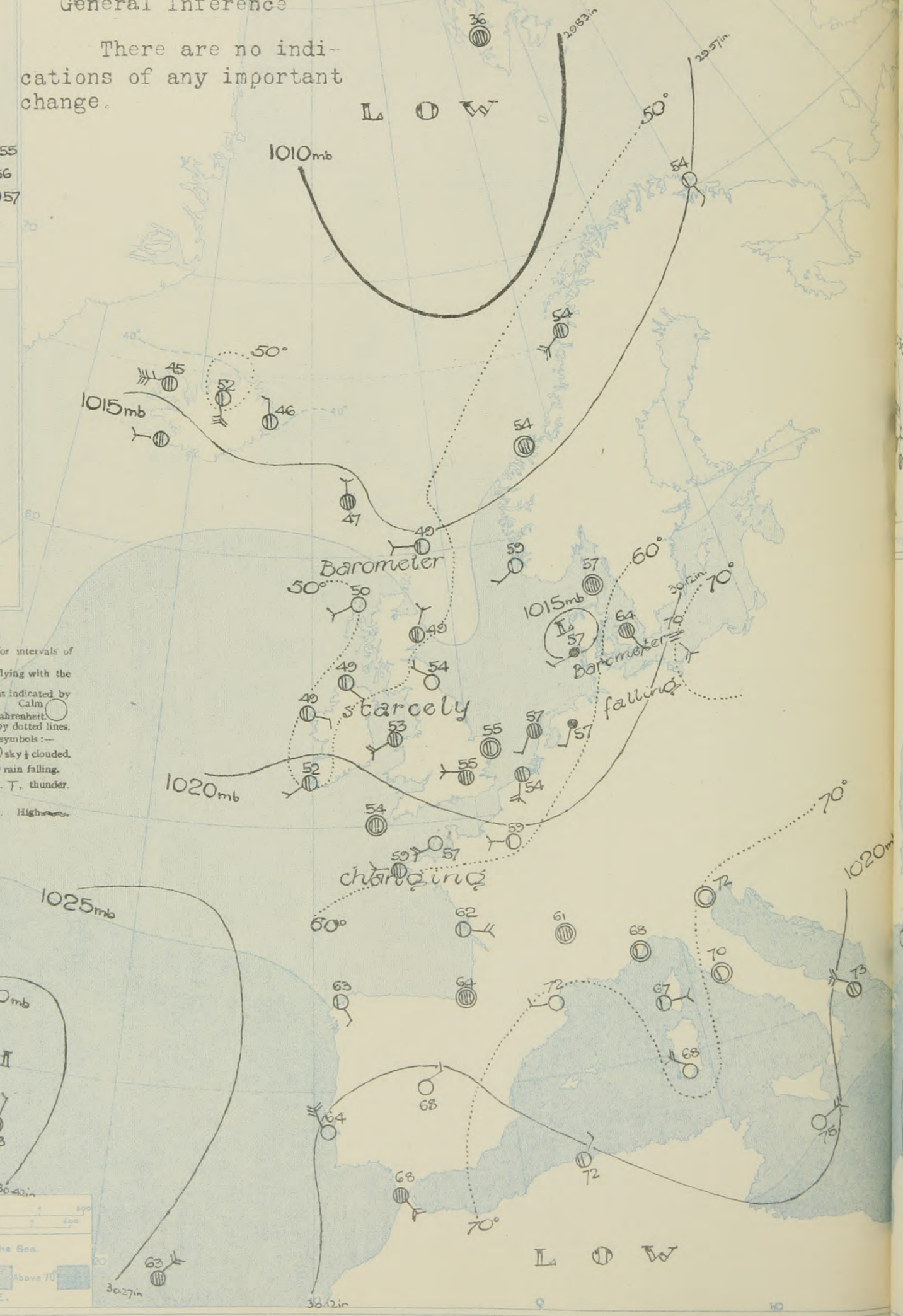
Normal Temperature of the Sea.

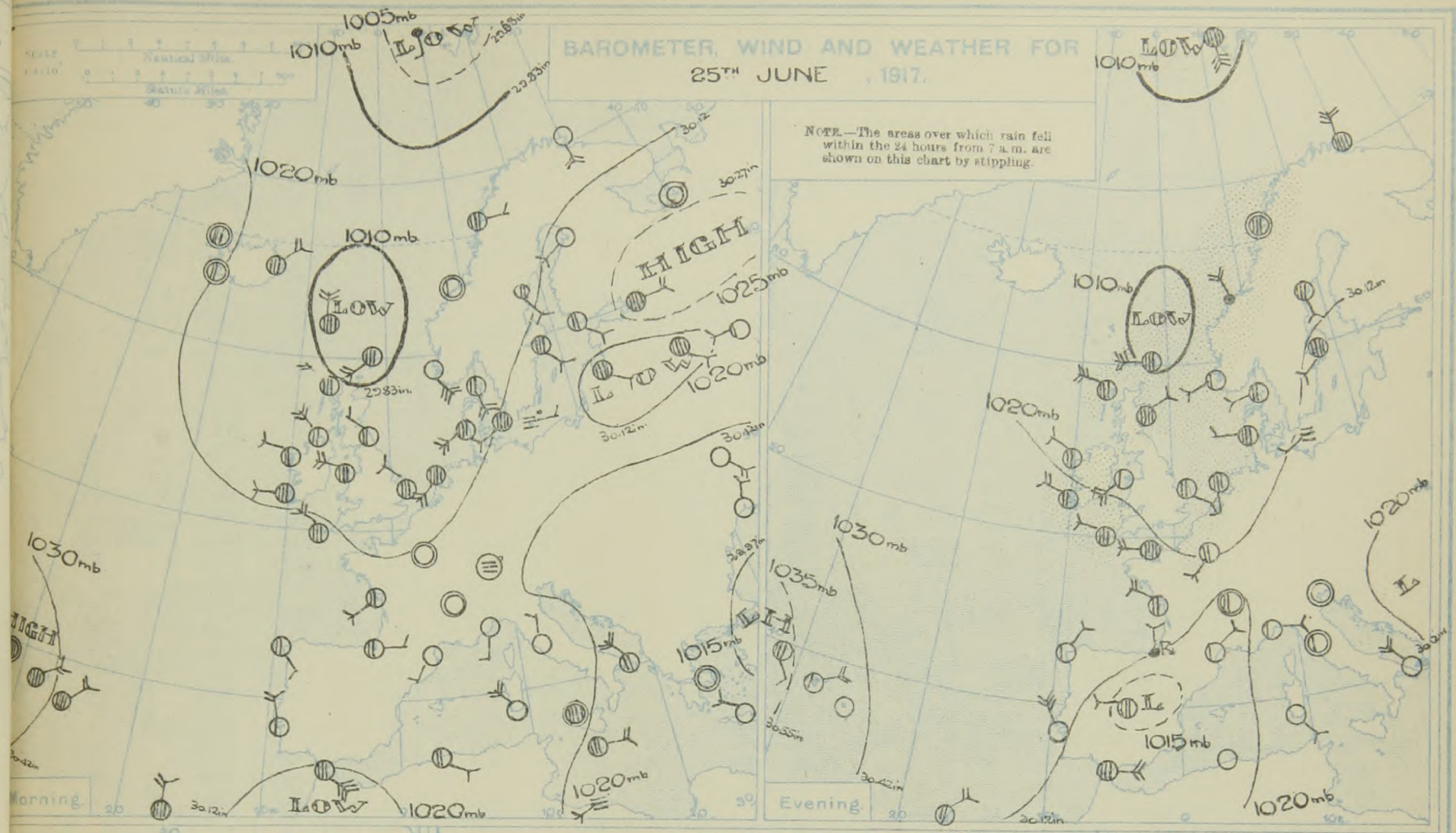
Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JUNE.

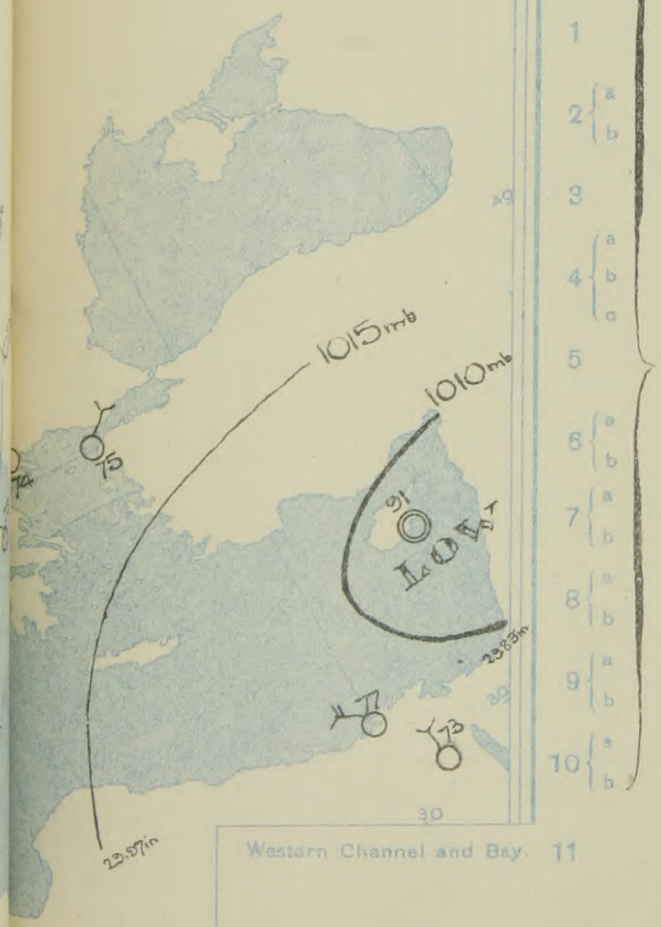
General Inference

There are no indications of any important change.





Forecasts 18h. Tuesday to 18h. Wednesday.



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

Western Channel and Bay.

Calms and light variable breezes, mainly Westerly; fair generally, local passing showers; cool to moderate temperature.

Light variable breezes; slight sea; fair to fine; moderate temperature.

FURTHER OUTLOOK.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 177. Tuesday, 26th JUNE

EVENING OF 25th — MORNING OF 26th — 24 HOURS ENDED 7 A.M.

	STATIONS	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.	Sunshine for 25th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1009·9	50	W	5	c	1015·9	+1	49	−1	W	2	−	bc	2	1	53	45	c.bc.o	c	bcp	*
	Deerness (Orkney)	1014·5	49	W	4	c	1017·6	*	49	0	WNW	3	SW	bc	1	1	52	42	o.c	c	c.bc	9·1
	Stornoway ...	1017·8	50	WNW	5	cq	1018·5	0	50	+2	WSW	2	−	b	1	1	52	40	cq	cpq	b	6·6
	Castlebay (Barra Isd.)																					
	Glasgow ...	1017·1	55	WSW	2	c	1018·5	+1	45	−3	E	1	SW	bc2	*	−	60	40	bc	bc.c2	c.b.bcx	8·8
	Eskdalemuir ...	1017·8	54	SW	3	o	1015·3	+1	50	0	NE	2	−	bcw	*	2	57	33	bv.cpt	op.o	op.o.o.b	8·3
	Malin Head ...	1018·5	53	N	4	bc	1016·6	0	49	−3	SE	1	−	bc	2	2	55	46	bc	bc	cp	12·5
	Blacksod Point	1019·0	54	NW	2	bc	1018·8	0	49	−1	ESE	1	−	bc	1	1	56	46	bc	bc	bc.bcp	*
	Valencia (Cahirciveen)	1020·8	57	WNW	3	bc	1020·4	0	52	−2	SW	1	W	bc	3	0·1	59	44	c.bc.b	b.bc	bcp.bc	12·1
	Roche's Point	1020·5	54	NW	2	og	1020·7	*	50	−1	NW	1	NW	c	1	5	60	48	o.bcgr	og.p.c	cg.c	*
	Birr Castle ...	1018·3	61	NW	1	c	1020·0	*	51	0	SW	1	−	c	*	1	61	43	cp	cp	c	6·5
	Donaghadee ...	1018·2	52	N	2	bcp	1018·7	+2	49	−5	NW	2	NW	cp	1	5	57	47	bcp	bcp	bcp	*
	Liverpool (Bidston)	1018·5	58	W	1	b	1018·3	0	52	−2	SSE	1	SW	bc	1	−	60	48	c	b	b.o	6·0
	Holyhead ...	1018·8	56	SW	4	b	1017·8	0	53	+1	SW	3	−	c	2	−	60	49	c	c.bc.b	bcgw	9·5
	Pembroke (St. Ann's)	1020·2	56	W	1	bc	1019·8	0	54	+1	W	1	−	bcw	1	0·1	57	51	bc	bc	b.bcw	11·7
	Scilly (St. Mary's)	1021·4	56	WNW	2	cpv	1021·6	0	54	−2	−	0	W	cv	3	2	62	51	c	cv	crv.cv	5·7
	Falmouth ...	1020·1	60	NW	3	bc	1020·8	+2	57	0	WSW	2	−	b	*	−	64	48	bc	bc	bc.b	7·4
	Jersey (St. Aubin)	1020·9	59	W	3	og	1021·6	*	57	+1	WSW	3	−	b	2	1	61	52	op.c.o	cq	bc.b	0·7
	Portland Bill ...	1018·8	57	WSW	3	c	1020·1	+1	57	+2	WNW	3	NW	bc	2	−	59	54	c.bc	bc.c	c.bc	*
	Dungeness ...	1017·5	58	SW	3	c	1017·1	+1	57	−2	SW	3	SW	c	2	−	61	52	c.bc	c.o.c	c.bc.c	*
	Dover	1018·3	57	W	4	o	1018·1	0	57	0	NW	2	NW	o	2	−	62	50	o.c.o.b	c.o.c.o	o	1·6
	Wick	1015·9	51	WNW	3	bcq	1018·2	0	48	−2	SSE	1	−	bc	2	0·3	54	38	bc.opq	op.bcq	bcq.bc	*
	Nairn	1016·7	57	W	2	bc	1018·9	*	48	−3	−	0	−	b	1	−	60	36	bq.b	bc	bcw	10·8
	Aberdeen ...	1017·4	51	ENE	2	op	1018·9	+1	49	−3	NNE	2	S	c	2	S	62	46	o.bc.cp	cgp.o	op.c	5·1
	Leith	1016·1	59	W	2	c	1018·5	+1	51	−1	E	1	W	c	2	0·4	62	48	bcu.bc	b	c.b.pu.c	*
	Tynemouth ...	1017·5	53	SSE	2	omr	1017·8	0	54	0	NW	1	−	bm	2	3	60	46	cm	omr	bcm	*
	Spurn Head ...	1017·2	59	SSE	4	c	1017·6	0	52	−4	NW	3	−	bcm	2	−	65	49	c	c	c	6·7
	Yarmouth (Gorleston)	1017·6	57	ESE	2	bc	1017·4	+1	55	−2	−	0	−	bc	1	4	67	52	omd	bcp	bcm.o	0·8
	Clacton-on-Sea	1017·5	63	S	2	o	1017·4	0	56	−2	NW	3	NW	c	2	5	66	54	ogh	o	o.c	0·6
	Nottingham ...	1017·7	62	NW	2	c	1018·4	*	51	0	WSW	1	−	bm	*	−	65	43	c.o	cm	c	5·6
	Benson (Oxon.) ...	1017·5	64	WNW	2	bc	1018·6	+2	53	−3	W	1	−	b	*	−	69	45	bc	bc	c.bc	*
	Sth Farnborough	1017·4	64	WSW	2	c	1018·8	+2	52	−7	WNW	2	SW	bc	*	−	70	50	o.bc.o	c.bc.c	c.o.bc	6·4
	London (Kew Obsy.)	1017·3	67	NNW	2	ov	1019·0	+2	55	−2	WNW	2	−	om	*	−	71	53	om.o.c.o	o.cv.bcv.ov	o.b.o.om	4·9
NORTHERN EUROPE.	Spitsbergen ...	1005·0	34	S	6	o	1008·0	+4	36	−1	−	0	*	o	*	*	37	32				
	Vardö	1017·3	46	N	5	o	1015·4	−1	54	−1	S	2	−	b	2	*	57	45				
	Bodö	1014·2	55	−	0	e	1011·8	+1	54	0	SW	4	−	c	3	?	55	50				
	Christiansund ...	1013·4	52	NW	4	r	1014·4	+1	54	−3	−	0	−	c	3	5	67	48				
	Skudesnaes ..	1016·6	55	WSW	2	b	1018·2	0	59	−2	SW	1	−	b	2	2	59	48				
	Færder (X'tania Fjord)	1016·3	59	SW	5	b	1017·5	0	59	+2·	SW	1	−	b	1	2	61	54				
	The Scaw (Skagen)	1019·6	59	WSW	2	bc	1017·8	0	57	0	−	0	−	o	0	−	61	48				
	Blaavands Huk	1019·2	61	W	1	c	1015·0	*	57	−7	WSW	1	−	r	*	3	64	54				
	Copenhagen ...	1019·5	50	WSW	2	b	1017·8	−2	64	0	SSE	2	−	o	*	−	72	61				
	Bornholm ...	1021·1	66	SW	1	m	1020·4	−1	70	+4	SSE	3	−	m	1	−	68	61				
FRANCE, &c.	The Helder ...	1019·1	61	S	1	c	1016·0	−1	67	−2	SW	1	−	o	1	5	68	57				
	C. Gris Nez ...	1018·8	57	SW	3	c	1018·0	+1	57	−5	SW	3	*	c	3	1	66	54				
	La Hève	1019·0	64	W	2	r	1020·3	*	54	−3	WNW	3	*	b	3	4	68	52				
	Brest (St. Mathieu)	1022·4	63	NW	1	c	1023·1	+1	59	+2	W	2	*	c	2	−	68	55				
	Rochefort (Ile d'Aix)	1025·4	66	NW	3	bc	1022·7	0	62	−1	ESE	3	*	b	2	−	71	55				
	Biarritz	1020·8	67	N	2	tclr	1022·7	+1	64	−2	−	0	*	o	2	−	73	61				
	Paris	1019·1	68	WSW	2	b	1021·6	+1	59	−4	W	2	−	b	*	5	77	52				
	Belfort							*					*		*							
	Lyons	1019·4	73	−	0	bc	1020·2	*	61	−1	−	0	*	o	*	−	81	60				
	Nice	1022·6	66	E	2	b	1021·9	0	68	+2	−	0	*	b	0	−	77	57				
	Perpignan ...	1017·8	79	NE	2	b	1021·5	+1	72	+2	W	1	*	b	*	−	84	59				
	Sanguinaire ...	1021·8	73	NW	3	m	1022·7	*	67	−5	E	2	*	b	3	−	80	59				
SOUTHERN STATIONS.	Corunna	1023·9	64	NNE	2	b	1024·0	+1	63	+2	SE	1	−	b	*	−	66	54				
	Madrid	1011·5	82	W	2	c	1019·5	+1	68	+2	NE	1	−	b	*	−	82	59				
	Lisbon	1020·2	70	NNW	5	b	1019·9	0	64	+1	NW	5	-	b	*	−	73	61				
	Azores (Horta) ...	1033·6	*	NE	4	b	1033·1	0	63	+2	NNW	3	−	o	1	−	68	61				
	Madeira	1023·7	70	NE	3	bc	1024·7	+1	63	0	NE	4	*	o	3	−	70	63				
	Gibraltar	1019·3	69	E	4	c	1019·3	*	68	0	SE	4	−	o	3	−	75	66				
	Malta	*	*	*	*	*	1020·4	+1	75	0	ENE	3	*	b	2	−	80	73				
	Limassol	*	*	*	*	*	1008·7	−2	91	+3	−	0	−	b	0	−	93	64				
	Alexandria ...	1014·0	73	NNE	3	b	1012·7	0	77	+2	NW	3	−	b	1	−	82	70				
	Cairo (Helwan) ...	1012·3	86	NNE	3	b	1012·2	+1	73	0	N	2	−	b	*	−	95	68				

RAINFALL

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

24 Hours ended 9 h. 26th

	Humidity. 15 h. 25th	Humidity. 9 h. 26th	Sunshine for 25th	Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	49	64	2·5	74	52	40	−	o.op	o	o
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	52	65		69	54	49	−	bc.o	bc	bc.og
CAMDEN SQ. (British Rainfall) ..	49	62	4·6	73	53	50	−	o.bc	c.bc	*
HAMPSTEAD (Reservoir)	*	66	5·8	68	50	40	−	o.bc	bc	c
S. KENSINGTON (Museum Grounds)	*	69	3·8	68	64	50	−	o	o	c.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 25th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1351	22·6	?78·5

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

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

Issue No. 20,306 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { WEDNESDAY 27TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON TUESDAY, 26TH JUNE 1917.

Temperature was below the normal generally, under 60° in many places. Showers fell in various localities, and thunderstorms visited Eastern England. Sunshine ranged up to 12·4 hours at Malin Head.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR TUESDAY, 26TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 25h	Rainfall Night. 17h-9h.	Rainfall Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h.
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban		-	-	56	38	b	b	11·8
	Banff		-	-	54	40	b. bc	bc. c	10·2
	Montrose	6·9	*	*	64	46	b	b	3·3
	St. Andrews	11·1	Trace	-	55	47	b	c	7·7
	Garnoustie	*	*	*	58	48	or. c	b	5·4
Eng. N.E.	Harrogate	7·2	-	Trace	61	42	bc. cp	bc. c. o	6·7
	Skegness	9·4	-	1	64	48	bc	bc. opt	7·9
Eng. N.W.	Morecambe		-	-	61	43			9·5
	Southport	13·3	-	-	61	44	o.c. bc.c	bc. c.o.bc	5·3
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye		-	1	65	40	b. bc	cp. bc	8·5
Wales.	Rhyl	10·8	-	4	59	42	bc	bc. c. p	3·5
	Colwyn Bay	*	*	*	60	47	bc	cr. p	4·9
	Llandudno	*	*	*	60	46	c	c	6·9
	Aberystwyth	*	*	*	59	45	o.c.b	b. bc	8·5
England. E.	Lowestoft	0·0	2	2	60	53	c.o. tbr	c. bc	4·5
	Felixstowe	0·6	-	-	69	54	bc	bc	7·5
	Walton-on-Naze		-	-	65	54	b. bc	bc.bc	5·7
	Southend-on-Sea	0·2	-	-	69	58	o. c. y	c. bc. bv	4·2
England, S.E.	Margate	1·0	-	-	65	53	c	c. bc. cp	2·8
	Hastings	0·5	-	-	66	51	bc. b	b	10·1
	Eastbourne	0·5	-	-	63	53	bc. ob.	b	9·0
	Seaford		-	-	61	52	b	bc	10·7
	Brighton		-	-	63	53	bc	c. bv	9·3
	Worthing	5·5	-	-	65	51	b. bc	bc	9·2
	Littlehampton		-	-	63	56			11·0
	Bognor								
	Bournemouth	7·0	-	-	65	49	bc	bc	12·0
England, S.W.	Weymouth		*	*	66	51	b	b. bc. c	9·5
	Torquay		-	-	65	48	bc. b	b. bc. b	11·0
	Paignton								
	Penzance	4·4	1	-	65	47	bc	bc	8·0
	Newquay	4·9	3	-	60	47	b	b	10·2
	Bude	8·0	4	-	63	47	b	b	9·6
	Ilfracombe		3	Trace	60	50	bp. b	b	9·9
	Weston-s-Mare		-	-	64	47	b. bc. b	b. bcv	7·0

REPORTS FROM FOREIGN STATIONS FOR TUESDAY, 26TH JUNE

	STATIONS.	Evening of 25TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 26TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1023·6	70	-	0	bc									*	
	Gorki														*	
	Velieki Luki														*	
	Hangö	1018·6	59	N	2	0	1016·2	0	57	-2	NNW	3	r	1	*	50
	Riga	1017·9	61	SSE	1	r									*	
	Petrograd	1017·7	68	ENE	3	o	1013·6	-3	66	+5	SSE	2	m	5	73	61
	Moscow	1018·9	77	WSW	3	b	1020·6	+1	73	+3	-	0	bc	-	*	66
	Kiev	1018·2	70	NNW	2	bc	1018·7	+1	66	-4	NNW	2	c	-	*	63
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad	1018·0	84	SE	1	b	1017·5	0	72	+4	ENE	2	b	-	*	64
	Nicolaiev	1016·7	72	-	0	bc	1016·7	*	72	+2	NNE	2	b	16	*	64
	Odessa	1017·8	73	SW	2	bc	1017·9	·0	70	-2	NNE	3	b	-	*	66
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	10206	75	-	0	b	1021·1	*	72	-1	-	0	b	-	81	70
	Pesaro						1022·1	*	72	0	NW	1	b	-	82	61
	Rome	1021·8	73	-	0	b	1020·9	*	73	+5	-	0	b	-	84	63
	Viesti	1021·7	73	NW	1	b	1022·1	*	71	+2	NW	1	b	-	82	72
	Brindisi	1020·1	73	NW	4	b	1019·0	*	73	-2	NW	4	bc	-	73	70
	Cagliari	1022·7	73	SE	3	b	1022·1	*	68	-2	NW	3	b	-	79	57
	Palermo						1021·2	*	73	0	-	0	b	-	82	59
	Tripoli						1020·3	*	75	+5	SE	1	bc	-	77	68
	Algiers	1017·9	72	NNE	2	c	1017·0	+1	72	+4	NNE	1	bc	-	77	68
Sweden.	Hernösand	1018·1	55	SSW	2	c		*						*	*	*
	Stockholm	1019·7	64	SSE	2	o		*						*	*	*
	Wisby	1020·2	61	NW	2	b		*						*	*	*

Iceland.	Morning of 26TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord	1014·6	45	-5	W	7	c
Reykjavik	1018·0	43	-5	W	2	c
Vestmanna						
Seydisfjord	1014·6	46	+7	N	1	bc
Thorshavn	1011·2	47	-2	-	0	bc

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

27 & 28 JUNE 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·33	11·56	8·18
	3·34	11·56	8·18
Greenwich	3·46	12·3	8·19
	3·47	12·3	8·19
Wick	3·9	12·15	9·20
	3·9	12·15	9·20
Valencia	4·24	12·44	9·3
	4·25	12·44	9·3

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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‡ The barometric change is expressed in half-millibars.

THE MORNING OF Wednesday, 27th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

GENERAL INFERENCE.

The depression in the South-West is likely to spread, and bring about less settled conditions generally.

LOW

HIGH

LOW

HIGH

HIGH

Bar. rising

Barometer falling

Bar. rising

1015 mb

1020 mb

1025 mb

1010 mb

30.12 in.

29.97 in.

29.83 in.

30.27 in.

40°

50°

60°

70°

EXPLANATION.

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

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

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

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

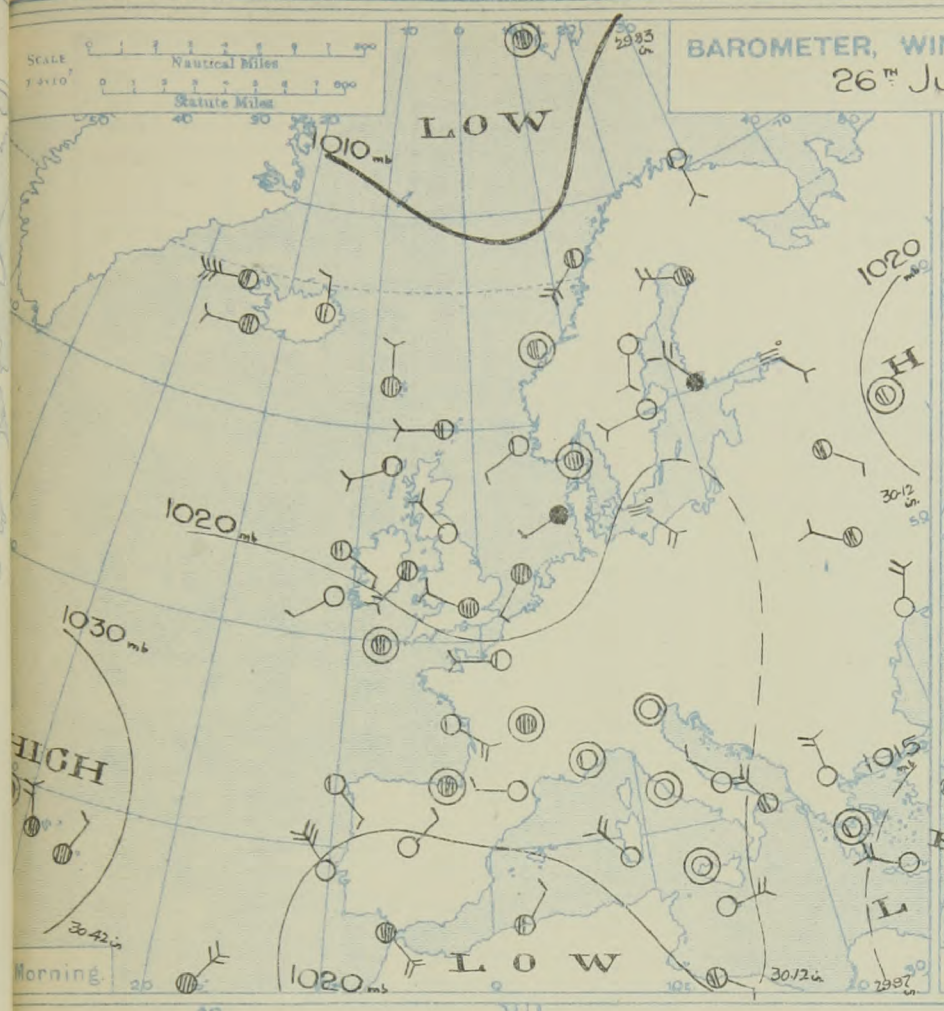
SEA DISTURBANCE.—Rough ~~ High ≈≈

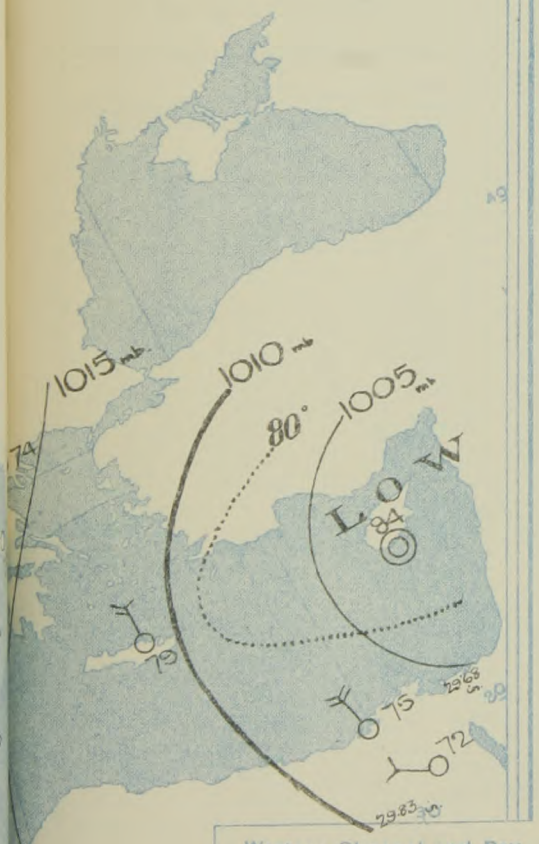
SCALE 1:12:10
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

Below 30° | 30°-50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JUNE.





Forecasts 18h. Wednesday to 18h. Thursday.

0 {a b} 1 Calms and light variable breezes, freshening Easterly later; fine to dull, with some rain later; cool.

2 {a b} 3 4 {a b c} 5 Light Southerly to South-Easterly breezes, freshening; becoming less settled, some rain; moderate temperature.

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

7 {a b} 8 {a b} 9 {a b} 10 {a b} Freshening breeze between South and East; dull to rainy, coast mist or fog; cool.

Freshening Southerly to South-Westerly wind; sea rather rough; dull, some rain, mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 178 Wednesday, 27th JUNE

	STATIONS.	EVENING OF 26th					MORNING OF 27th								24 HOURS ENDED 7 A.M.					Sunshine for 26th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·2	53	W	2	bc	1017·3	-1	49	0	SW	1	-	op	1	-	54	44	bc	bc	bc	
	Deerness (Orkney)	1018·3	51	SSW	2	c	1017·3		50	+1	SSW	2	SW	o	1	-	54	44	bc.c	c	c o	7·0
	Stornoway ...	1018·2	50	N	2	cp	1017·8	0	50	0	W	1	-	c	1	9	54	41	bcp.or	o.c.op	b.bc.c	6·5
	Castlebay (Barra Isd.)																					
	Glasgow ...	1017·3	54	E	3	bz	1018·0	-1	48	+3	ENE	2	-	orm	*	-	53	44	bc.cuz	cu.bc.b	b.bc.co	6·9
	Eskdalemuir ...	1017·1	53	NNE	4	o	1017·8	0	49	-1	-	o	W	ow	*	5	61	36	cw.oph	bcv.o	o.bc	9·2
	Malin Head ...	1017·7	54	ENE	3	bcv	1016·4	0	52	+3	E	2	-	b	1	-	57	48	bc	bcv	b	12·4
	Blacksod Point	1016·7	54	NNW	1	bc	1014·3	-1	52	+3	E	2	E	cv	1	-	56	48	bc	bc	bc.cv	
	Valencia (Cahirciveen)	1016·6	56	S	2	o	1009·7	-2	52	0	ENE	4	E	or	3	9	53	50	c	c.o	o or	4·7
	Roche's Point	1018·9	56	SSW	2	o	1011·6	*	53	+3	SE	4	-	r	4	8	59	50	cp	c.ogp	op.or	
	Birr Castle ...	1016·5	60	NW	1	c	1014·3	*	52	+1	E	1	-	o	*	2	61	50	c	c	c op	8·6
	Donaghadee ...	1017·3	51	ESE	2	cv	1016·5	+1	51	+2	ESE	2	-	bcm	1	-	55	47	bc	cv	bcv.bm	
	Liverpool (Bidston)	1018·0	57	W	2	bc	1016·7	-1	53	+1	SE	1	S	c	1	2	61	49	bct	bcp	bc.b	5·8
	Holyhead ...	1018·3	57	SW	3	bcq	1016·2	-1	53	0	SE	4	-	ogv	2	-	61	49	c.bc	c.bc	b.bcv.o	8·3
	Pembroke (St. Ann's)	1019·6	55	SW	1	c	1014·8	-3	52	-2	ESE	3	-	or	3	3	57	52	bc.b	b.bc.c	c	11·8
	Scilly (St. Mary's)	1020·6	57	-	0	cv	1012·2	-4	57	+3	S	3	S	orm	4	3	62	52	bcv	bcv	c.omr	7·3
	Falmouth ...	1020·3	59	SW	3	bcq	1012·9	-4	56	-1	SSW	6	-	orm	*	9	63	53	bc.c	bc	bc.omr	7·4
	Jersey (St. Aubin)	1021·6	60	SW	3	o	1017·2	*	58	+1	E	2	E	bc	2	1	64	53	b.bc.b	bc.o	op.bc	11·7
	Portland Bill ...	1020·2	57	WSW	4	b	1017·1	-2	55	-2	SW	3	-	c	2	-	58	54	bc	bc.b	c.o	
	Dungeness ...	1019·6	58	SW	5	b	1019·6	0	55	-2	-	o	-	c	o	-	63	53	bc	bc	bc.b.bc	
	Dover	1019·5	59	SW	4	b	1019·1	0	55	-2	SW	2	W	o	2	-	65	50	o.c.bc	bc.b	o.c	8·9
	Wick	1018·4	50	SSE	1	o	1017·1	-1	51	+3	SSE	1	-	bc	1	1	53	45	bcp	cp.og	og.bc	
	Nairn	1017·4	55	E	1	c	1017·4	*	49	+1	-	o	-	b	o	-	57	37	bc.c	bc.c	bc.cu	9·5
	Aberdeen ...	1018·6	52	E	2	b	1018·1	0	51	+2	-	o	-	b	2	-	58	38	c.bc	bc.b	b	6·9
	Leith	1017·0	52	E	2	c	1017·6	0	51	0	ENE	1	-	o	2	1	57	48	c.bc.c	c.ow.p	cu.cp.o	
	Tynemouth ...	1017·8	51	N	3	cmp	1018·3	0	50	-4	-	o	-	cm	2	2	57	47	bcp	bcp	cm	
	Spurn Head ...	1018·1	56	NNE	1	bc	1017·7	-1	53	+1	SE	3	-	c	2	1	62	51	c	c.tlr	bc	8·2
	Yarmouth (Gorleston)	1018·4	58	SSW	3	bc	1018·0	+1	55	0	SW	1	-	bcm	2	2	66	51	bc.cl	bc.tlp	bc	3·8
	Clacton-on-Sea	1018·4	64	SW	3	bc	1018·8	0	56	0	SW	3	SW	o	3	-	65	53	c.bc	bc	bc.co	6·4
	Nottingham ...	1017·9	60	SW	2	c	1017·3	*	55	+4	S	1	SW	cm	*	-	68	49	b.bc	bc.c	c	9·4
	Benson (Oxon.) ...	1018·2	63	NW	1	bc	1017·0	0	56	+3	S	3	-	c	*	-	69	48	bc	bc	bc.oc	
	Sth Farnborough	1018·6	64	SW	3	bc	1017·6	-1	56	+4	S	2	-	o	*	-	67	49	b.op.bc	bcp.c.bc	bc.b.co	9·1
	London (Kew Obsy.)	1019·0	66	SW	3	cv	1018·4	-1	57	+2	SSE	2	-	o	*	-	69	50	orn.bc.bv	bv.bcv.bv	cv.bbco	9·3
NORTHERN EUROPE.	Spitsbergen ...	1013·5	36	-	0	o	1014·1	*	36	0	N	2	*	c	*	*	36	32				
	Vardö	1012·4	55	S	4	r	1014·0	+2	?37	-17	N	6	-	o	5	*	64	?37				
	Bodö	1015·8	52	SW	4	b	1017·1	0	55	+1	N	1	-	b	2	-	55	46				
	Christiansund ...	1017·7	52	W	3	c	1014·9	-1	52	-2	-	o	-	o	3	1	54	50				
	Skudesnaes ..	1017·3	55	NW	3	b	1015·8	0	52	-7	NW	4	-	c	2	-	57	48				
	Færder (X'lania Fjord)	1013·5	54	NE	2	r	1010·1	0	55	-4	W	2	-	o	1	?5	57	52				
	The Scaw (Skagen)	1014·8	54	N	4	o	1012·8	+1	57	0	SW	3	SW	bc	3	11	57	52				
	Blaavands Huk	1015·0	61	N	2	c	1019·9	*	57	0	WNW	2	-	bc	*	11	64	52				
	Copenhagen ...	1013·5	66	SSW	3	c	1018·3	+4	59	-5	WNW	3	-	c	*	9	72	57				
	Bornholm ...	1015·2	70	S	1	m	1018·3	+3	59	-11	W	3	-	m	1	2	73	59				
FRANCE, &c.	The Helder ...	1018·1	59	W	3	bc	1019·6	0	54	-3	S	2	SW	b	0	2	61	46				
	C. Gris Nez ...	1020·3	57	SW	5	b	1019·5	-1	56	-1	S	1	*	o	1	-	59	54				
	La Hève	?1022·0	61	NW	1	c	1019·2	*	54	0	ENE	3	*	r	1	1	64	52				
	Brest (St. Mathieu)	1021·9	59	SW	3	o	1016·6	-3	60	+1	S	4	*	o	3	-	68	57				
	Rochefort (Ile d'Aix)	1021·5	68	W	3	bc	1018·2	-2	62	0	E	3	*	c	*	-	75	57				
	Biarritz	1020·8	71	NNE	3	bc	1016·4	-2	66	+2	ENE	2	*	c	2	+	78	59				
	Paris	1021·2	66	WSW	2	c	1019·0	-4	64	+5	NE	1	-	bc	*	-	72	52				
	Belfort	1022·6	61	WSW	3	c	1022·0	*	59	-	E	5	*	m	*	1	73	52				
	Lyons	1020·4	72	-	0	bc	1019·0	*	64	+3	-	o	*	b	*	-	77	56				
	Nice	1019·6	64	S	1	b	1017·9	0	67	-1	-	o	*	c	o	-	77	59				
	Perpignan ...	1018·7	63	S	2	tlr	1017·9	-1	68	-4	SW	1	*	b	*	22	80	56				
	Sanguinaire ...	1019·6	72	NW	3	bc	1017·8	*	71	+4	E	2	*	b	2	-	86	64				
SOUTHERN STATIONS.	Corunna	1022·9	66	NE	4	b	1017·7	-3	68	+6	SSW	5	W	c	2	-	68	59				
	Madrid	1014·7	82	NW	1	b	1017·2	+1	68	0	-	o	-	b	*	10	84	59				
	Lisbon	1018·3	73	NNW	5	b	1019·8	+2	63	-1	NNW	3	-	o		-	77	61				
	Azores (Horta) ...	1032·0	*	-	0	b	1029·5	-2	61	-2	NNE	2	*	b	1	-	73	61				
	Madeira	1023·1	70	N	4	bc	1022·0	-2	66	+3	NE	3	-	b	3	-	72	66				
	Gibraltar	1018·9	69	SE	3	b	1018·6	*	69	+1	SE	3	*	c	2	-	79	66				
	Malta	*	*	*	*	*	1017·8	+1	75	0	SSW	1	NW	bc	0	-	80	70				
	Limassol	*	*	*	*	*	1003·1	0	84	-7	-	0	-	b	0	-	84	64				
	Alexandria ...	1010·0	75	NNW	3	b	1008·0	0	75	-2	NNW	4	-	b	2	-	86	72				
	Cairo (Helwan) ...	1008·7	90	N	3	b	1008·3	+1	72	-1	NW	2	-	b	*	-	97	70				

NOTE

SOLAR HALO

of 22° was observed at

SOUTH FARNBOROUGH

Yesterday at 18h.30m.

LONDON OBSERVATIONS.	Humidity. 15 h. 26th	Humidity. 9 h. 27th	Sunshine for 26th	24 Hours ended 9 h. 27th. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	80	75	7·0	72	49	36	-	c	c.cp.bc	bc.b
CITY (Bunhill Row)	*	*	5.2	*	*	*	*	*		*
WESTMINSTER (St. James's Park)	80	69	6.8	68	52	47	-	bc.o	bc	bc.o
CAMDEN SQ. (British Rainfall) ..	56	67	7.2	74	52	50	Trace	bc	bc	*
HAMPSTEAD (Reservoir)	*	70	7·3	66	49	38	Trace	bcp	bc	c
S. KENSINGTON (Museum Grounds)	*	72	6.8	68	54	?48	-	c	c.bcp	bc.b.c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 26th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1537	25.8	88

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

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

Issue No. 20,307

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. { THURSDAY 28TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON WEDNESDAY, 27TH JUNE 1917.

Afternoon temperatures below the normal were general, under 60° in many places. Rain fell in most districts, heavily in the south-west, 34 millimetres at Scilly. Some stations had no sunshine, Malin Head over 13 hours.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR WEDNESDAY, 27TH JUNE UP TO 17 H.

	STATIONS.	Sunshine for 26th	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 27th
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	14·4	-	-	60	41	b	b	12·0
	Banff	10·2	-	-	61	43	b	b.bc	11·1
	Montrose	4·8			56	37	b	b	10·5
	St. Andrews	9·1	-	-	62	45	b	b	10·5
	Carnoustie	*	*	*	57	52	b	b	10·8
Eng. N.E.	Harrogate	7·2	-	4	59	42	bc.c.or	or	1·5
	Skegness	8·0	-	-	66	49	bc	bc	5·2
Eng. N.W.	Morecambe	11·1	-	1	61	45			1·6
	Southport	7·5	-	Trace	59	46	ocy.cp	co	0·2
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	8·6	-	3	60	47	o	or	0·8
Wales.	Rhyl	4·1	Trace	-	59	43	op	oc	0·2
	Colwyn Bay	*	*	*	60	45	c	c	1·0
	Llandudno	*	*	*	61	46	cr	c	1·1
	Aberystwyth	*	*	*	56	51	or.c	o.r	0·0
England, E.	Lowestoft	5·4	-	-	64	51	c	c.bc	4·4
	Felixstowe	8·9	-	-	64	52	cv	bcv	2·8
	Walton-on-Naze	13·1			70	52	c	b	5·5
	Southend-on-Sea	4·8	-	-	67	52	o.c	c.bc.b	3·1
England, S.E.	Margate	4·0	Trace	-	62	51	c	c.bc.b	2·5
	Hastings	12·6	1	-	66	51	op.bc	b	3·7
	Eastbourne	11·5	1	-	62	53	o.c.bc	b	5·0
	Seaford								
	Brighton	11·7	-	-	66	52	ov	b	5·1
	Worthing	11·7	Trace	-	65	51	o.c	b	5·0
	Littlehampton				63	52			6·5
	Bognor								
	Bournemouth	13·5	-	-	65	52	c	c.bc	7·0
England, S.W.	Weymouth	*	*	*	64	53	o.c.bc	bc.c	3·0
	Torquay		2	1	63	57	o.d	o	0·1
	Paignton								
	Penzance	8·0	6	7	59	54	ogr	ogr	0·0
	Newquay	10·2	3	4	60	53	or	or	0·0
	Bude	11·1	1	-	64	52	o	o	0·5
	Ilfracombe								
	Weston-s-Mare	8·5	-	3	64	51	or.c	c	0·0

REPORTS FROM FOREIGN STATIONS FOR WEDNESDAY, 27TH JUNE

	STATIONS.	Evening of 26th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 27th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1013·2	66	E	1	0	1015·0	+2	68		SW	3	bc	-	*	64
	Gorki	1019·8	64		1	0	1019·0		64		W	1	b	9	*	59
	Velieki Luki	1021·0	64	SSW	1	c	1022·4	*	63		W	2	b	-	*	54
	Hangö	1019·7	55	-	0	b	1020·3	0	57	0	SSE	2	bc	3	*	52
	Riga	1021·1	68	ENE	1	b	1022·0	-1	68		SSE	1	b	-	*	57
	Petrograd	1018·0	63	W	3	0	1022·3	+2	63	-3	NW	3	b	-	77	59
	Moscow	1018·4	75	NE	2	c	1020·0	+1	70	-3	-	0	bc	-	*	66
	Kiev	1018·3	70	N	2	0	1018·0	0	68	+2	N	3	c	1	*	61
	Kharkov	1015·6	79	NE	2	0									*	
	Kishinev	1023·8	68	NW	3	c	1015·6	0	68		N	3	b	-	*	63
	Elisabetgrad						1016·2	0	68	-4	NNW	2	b	3	*	59
	Nicolaiev	1015·1	68	NNE	3	0	1015·8	*	68	-4	NNE	2	c	33	*	63
	Odessa						1018·4	-1	70	0	N	3	bc	-	*	66
	Tarkhankout						1011·8	*	72		N	4	c	-	*	68
	Soukhoum														*	
Mediterranean.	Venice	1019·3	73	-	0	b	1017·3	*	72	0	-	0	c	-	79	64
	Pesaro	1017·5	75	-	0	b	1017·4	*	75	+3	SW	1	c	-	82	63
	Rome	1019·3	75	W	1	b	1018·2	*	70	-3	-	0	o	-	86	61
	Viesti	1018·5	75	NE	1	b	1016·3	*	79	+2	SSW	1	b	-	82	68
	Brindisi	1018·5	73	NNW	1	b	1016·2	*	73	0	NW	1	b	-	85	68
	Cagliari	1019·9	77	SE	3	b	1015·9	*	72	+4	NW	3	b	-	89	59
	Palermo	1019·7	75	-	0	b	1017·3	*	66	-7	-	0	f	-	81	57
	Tripoli						1017·1	*	78	+3	E	1	b	-	81	66
	Algiers	1015·7	75	-	0	c	1016·8		72	0	NNW	2	o	-	84	70
Sweden.	Hernösand	1013·8	66	S	2	b	1014·6	*	55		N	2	o	*	*	*
	Stockholm	1017·5	68	SSE	2	o	1012·6	*	63		S	2	o	*	*	*
	Wisby	1017·4	68	S	4	b	1015·0	*	66		W	2	bc	*	*	*

Iceland.	Morning of 26th: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather
		°F	°F			
Isafjord	1021·0	45	0	NE	1	b
Reykjavik	1017·9	46	+3	E	4	b
Vestmanna						
Seydisfjord	1011·9	39	-7	NW	7	r
Thorshavn	1012·8	47	0	SW	4	r

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

28th and 29th June 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3·34 / 3·34	11·56 / 11·56	8·18 / 8·18
Greenwich	3·47 / 3·47	12·3 / 12·3	8·19 / 8·19
Wick	3·9 / 3·10	12·15 / 12·15	9·20 / 9·20
Valencia	4·25 / 4·25	12·44 / 12·44	9·3 / 9·3

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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‡ The barometric change is expressed in half-millibars.

THE MORNING OF Thursday, 28th JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈

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

GENERAL INFERENCE.

An anticyclone spreading in from the Atlantic will be accompanied by an improving Northerly type of conditions.

L O W

1015 mb

1020 mb

1025 mb

1010 mb

HIGH

HIGH

L O W

Barometer falling slightly

Bar. falling

Bar falling

29.97 in.

29.83 in.

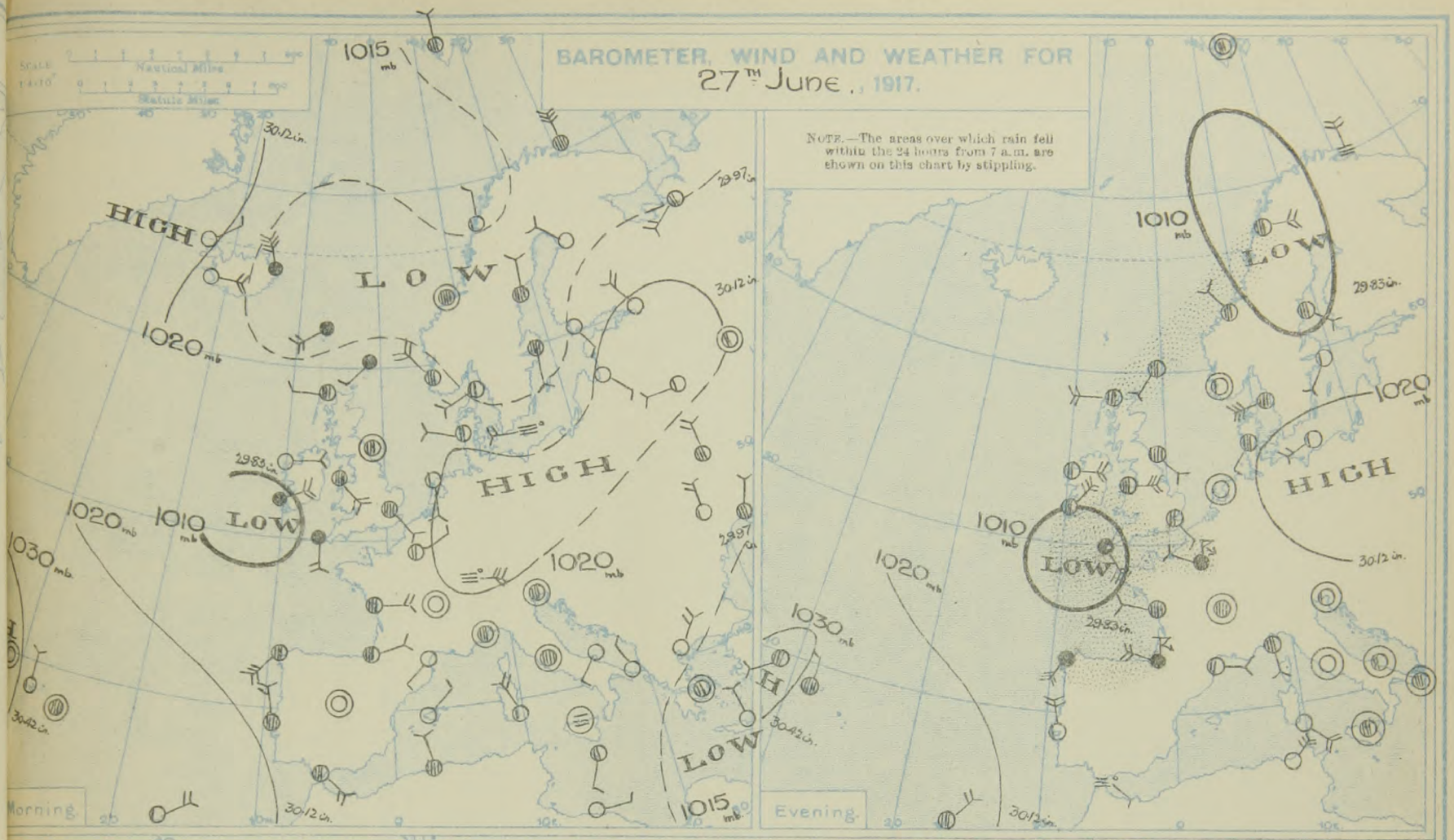
30.12 in.

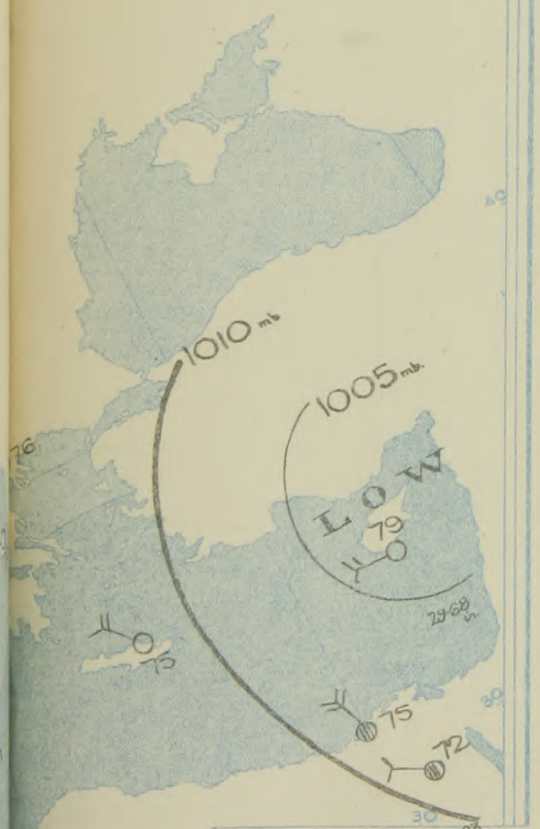
30.27 in.

50°

60°

70°





Forecasts 18h Thursday to 18h Friday.

0 {a b} Moderate breeze between North-West and North-East; generally fair to fine, local showers.

1 2 {a b} 3 4 {a b c} 5 Light variable South-Easterly to North-Eastrly breezes, freshening later; cloudy, local showers, thunder tendency, then fair to fine; moderate temperature.

6 {a b} Same as Nos. 9 & 10.

7 {a b} 8 {a b} Light to moderate North-Easterly to Northerly breeze; dull, some showers, then improving; moderate temperature.

9 {a b} 10 {a b} Moderate Northerly breeze; fair to fine; cool.

11 Moderate to fresh cyclonic wind circulation; sea rather rough; dull, some rain, mist or fog; local thunder; moderate temperature.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 179. Thursday, 28th JUNE

	STATIONS	EVENING OF 27th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 28th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 27th Hours.
BRITISH ISLANDS.	Lerwick ...	1014·3	50	SW	2	c	1013·3	+1	46	−3	WNW	3	W	bc	3	8	53	44	bcp	c	cr	
	Deerness (Orkney)	1015·2	51	W	3	o	1016·6	*	49	−1	NW	4	NW	b	3	-	56	44	o.cv	cv.o	o.c.bc	7.4
	Stornoway ...	1016·7	52	W	4	c	1019·4	+3	49	−1	NE	3	-	bc	3	2	56	45	cp	c	cp.bc	6.7
	Castlebay (Barra Isd.)																					
	Glasgow ...	1015·3	60	-	0	cz	1017·8	+3	49	+1	-	0	N	b	*	-	64	43	o.c	bc.b	c.bc.bw	6.5
	Eskdalemuir ...	1015·9	55	SE	1	oz	1016·7	+1	54	+5	-	0	-	bw	*	5	67	35	c.bc.op	c.oz	og.cg.b	5.5
	Malin Head ...	1017·0	55	N	3	bcz	1019·2	+1	53	+1	N	3	N	bc	3	-	58	49	bcz	bz	b	13.1
	Blacksod Point	1016·2	55	E	4	bc	1019·6	+2	52	0	NNE	3	E	bc	3	-	59	48	c	bc	bc	*
	Valencia (Cahirciveen)	1010·0	57	NE	6	c	1016·3	+5	54	+2	NNE	5	NE	bcz	3	0·4	60	52	o.c	c.o.c	c.bc	1·1
	Roche's Point	1009·7	54	ENE	3	r	1013·9	*	54	+1	N	4	-	o	3	15	56	53	ad	od	d.o	*
	Birr Castle ...	1012·8	60	NE	1	c	1018·0	*	50	+2	NNE	1	-	b	*	-	62	44	o	o.c	b	2·2
	Donaghadee ...	1016·2	55	NNE	3	bz	1016·9	+1	49	+2	N	4	-	bm	4	-	58	48	bz	bz	bm	*
	Liverpool (Bidston)	1014·3	58	E	2	o	1014·4	0	56	+3	NE	1	-	ogd	1	3	59	52	c.o	op	og	0·3
	Holyhead ...	1013·7	56	E	5	cpmg	1015·0	+1	54	+1	NE	5	-	ome	4	2	61	53	o.cp.bc	c.bc.o	odm	3·3
	Pembroke (St. Ann's)	1011·1	55	ESE	3	r	1011·9	−1	56	+4	N	2	-	or	3	20	56	51	cr	cr	or	0·0
	Scilly (St. Mary's)	1008·2	57	SSE	4	omr	1007·7	+1	58	+1	E	2	SE	o	5	34	60	54	omr	omr	omr	0·0
	Falmouth ...	1010·4	55	SSW	2	or	1008·2	+2	58	+2	SE	3	-	o	*	13	58	54	or. rq	rq.or	rq.o	0·0
	Jersey (St. Aubin)	1012·3	66	ESE	2	o	1010·0	*	62	+4	SSE	2	S	bc	1	1	67	58	bc.b	bc.o	op.bc	9·5
	Portland Bill ...	1013·3	57	ESE	3	c	1010·2	−1	57	+2	ENE	3	S	o	3	5	60	55	cp	bc.c	c.or	*
	Dungeness ...	1014·4	60	E	3	c	1011·9	0	59	0	SE	2	SE	bc	3	1	62	55	c.bc.o	o.bc	bcp.bc	*
	Dover						1012·6	−1	61	+6	SE	2	S	c	2	3	65	54			bc.cr	6·1
	Wick	1015·8	50	NNW	1	o	1017·6	+3	48	−3	NNW	4	-	bc	2	3	53	44	bc.om	omp	c.om.bc	*
	Nairn	1015·5	55	E	1	c	1018·9	*	49	0	-	0	-	od	1	1	69	41	bc	bc	c.od	12·7
	Aberdeen ...	1016·0	63	S	1	o	1017·7	+2	54	+3	WNW	3	-	b	2	-	58	45	b.bc	b.bc.ou	o.c.b	10·9
	Leith	1014·6	62	E	1	c	1017·5	+1	53	+2	E	1	E	b	1	-	63	46	o.c.bc.b	b	c.bcgb	*
	Tynemouth ...	1016·9	54	SE	2	om	1016·8	0	51	+1	SE	1	-	cm	2	-	57	46	cm	cmp	cm	*
	Spurn Head ...	1015·7	58	ESE	3	rm	1015·3	0	56	+3	ENE	3	-	c	3	0·2	60	53	c	cm	om	0·1
	Yarmouth (Gorleston)	1016·6	59	S	3	bc	1014·1	0	59	+4	S	4	-	c	3	-	64	55	bc	bc	bc	7·9
	Clacton-on-Sea	1015·3	62	E	3	b	1012·9	0	60	+4	SSE	2	-	c	2	0·2	63	56	o	o.bc.b	b.bcp	5·4
	Nottingham ...	1015·4	57	NE	2	d	1014·9	*	54	−1	S	2	SW	rt	*	1	67	52	c.o	op	d.o	1·9
	Benson (Oxon.) ...	1013·2	66	ESE	1	bc	1011·4	0	61	+5	NE	2	-	o	*	0·1	67	54	c	bc	bcp.o	*
	Sth Farnborough	1013·1	68	SSE	2	bc	1011·4	−1	60	+4	NE	2	-	orm	*	Trace	70	54	c.o	o.bc	bc.bom	5·5
	London (Kew Obsy.)	1013·9	70	SSE	1	bcv	1012·1	0	61	+4	ENE	1	-	om	*	0·3	71	57	o	o.c.bcv	bcz.rom	4·7
NORTHERN EUROPE.	Spitsbergen ...	1014·0	36	-	0	c	1014·6	0	39	+3	-	0	*	c	*	*	39	32				
	Vardö	1015·2	43	N	4	f	1013·6	−3	46	+9	SE	6	-	bc	3	*	50	?				
	Bodö	1005·8	52	E	4	c	1013·5	+10	48	−7	SW	4	-	r	3	?	54	45				
	Christiansund ...	1013·9	52	NNW	2	c	1013·5	−1	54	+2	SW	3	-	c	3	3	54	46				
	Skudesnaes ..	1017·9	57	-	0	b	1016·2	+1	54	+2	SSE	4	-	r	2	-	57	48				
	Færder (X'laniaFjord)	1014·8	59	SW	6	b	1019·6	+1	57	+2	SSW	4	-	o	2	-	63	54				
	The Scaw (Skagen)	1019·6	55	WSW	6	c	1019·9	−2	59	+2	ESE	2	-	o	2	-	59	50				
	Blaavands Huk	1020·0	64	SW	1	c	1018·3	*	63	+6	SSE	3	-	o	*	-	66	48				
	Copenhagen ...	1020·7	64	E	2	c	1021·9	0	63	+4	SSE	2	-	b	*	-	66	59				
	Bornholm ...	1021·2	61	WSW	3	b	1023·0	+1	61	+2	E	2	-	m	1	-	63	55				
FRANCE, &c.	The Helder ...	1016·0	63	-	0	c	1015·6	−1	64	+10	E	2	-	b	1	-	64	57				
	C. Gris Nez ...	1014·2	62	NE	3	bc	1012·7	−2	64	+8	ESE	1	*	o	1	8	70	59				
	La Hève	1013·0	72	-	0	bc	1013·5	*	61	+7	SE	3	*	o	2	-	73	55				
	Brest (St. Mathieu)	1010·0	59	SE	4	r	1008·4	+2	59	−1	SSW	3	*	o	3	5	63	59				
	Rochefort (Ile d'Aix)	1013·8	66	WNW	2	o	1013·2	−2	66	+4	S	3	*	o	*	-	75	61				
	Biarritz	1014·6	68	WNW	4	tlr	1011·8	−2	68	+2	ESE	3	*	b	o	1	75	59				
	Paris	1014·0	63	NW	2	tlr	1013·9	0	64	0	SSE	1	W	o	*	11	75	59				
	Belfort												*		*							
	Lyons	1015·4	66	-	0	o	1016·2	*	64		-	0	*	b	*	4	82	55				
	Nice	1016·0	66	S	2	c	1013·4	+1	72	+5	-	0	*	b	o	-	77	61				
	Perpignan ...	1013·9	75	E	2	bc	1015·1	0	72	+2	-	0	*	b	*	-	79	61				
	Sanguinaire ...	1015·4	73	N	3	b	1017·1	*	73	+2	E	2	*	b	1	-	90	64				
SOUTHERN STATIONS.	Corunna	1015·9	70	SSW	5	r	1015·6	+2	64	+4	W	4	-	c	2	8	72	61				
	Madrid														*							
	Lisbon	1018·7	70	NNW	4	b	1016·6	+1	64	+1	WSW	1	-	o		-	73	63				
	Azores (Horta) ...	1028·4	*	N	1	o	1027·1	0	64	+3	NNE	4	*	bc	2	-	73	64				
	Madeira	1021·4	70	NE	3	c	1021·4	−2	64	−2	NE	3	-	b	3	-	70	64				
	Gibraltar	1017·3	69	SE	1	m	1017·6	*	65	−4	NW	3	*	b	3	-	79	63				
	Malta	*	*	*	*	*	1013·6	+1	79	+4	ESE	1	-	b	0	1	79	73				
	Limassol	*	*	*	*	*	1004·8	+3	79	−5	W	3	-	b	0	-	90	64				
	Alexandria ...	1008·4	73	NNW	3	b	1009·1	+1	75	0	NNW	4	N	c	3	-	84	72				
	Cairo (Helwan) ...	1007·4	80	NNW	3	b	1009·8	+2	72	0	NW	2	-	c	*	-	95	68				

LONDON OBSERVATIONS.

	Humidity. 15 h. 27th %	Humidity. 9 h. 28th %	Sunshine for 27th Hours.	24 Hours ended 9 h. 28th. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	58	69	4·8	71	50	49	−	o	o.c	om
CITY (Bunhill Row)	*	*	2·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	56	69	3·5	69	58	57	−	o.c.bc	bc	oe
CAMDEN SQ. (British Rainfall) ..	55	74	2·3	72	57	53	−	o	o.bc	*
HAMPSTEAD (Reservoir)	*									
S. KENSINGTON (Museum Grounds)	*	68	2·6	70	59	57	−	o	c.bc	bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 27th.

Total.	Average Rate.	Max. Rate.
Joules. 1263.	Milliwatts. 21.2.	Milliwatts. 85.

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

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

Issue No. 20,~~308~~ DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. { FRIDAY 29TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON THURSDAY, 28TH JUNE 1917.

Afternoon temperatures were nearly everywhere under the normal. Heavy rain, with local thunderstorms occurred in the southern districts, more than 40 millimetres at some London stations. Scotland and Ireland had large sunshine records, England generally little or none.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR THURSDAY, 28TH JUNE.. UP TO 17 H.

	STATIONS.	Sunshine for 27TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 28TH
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	14·8	-	-	60	47	b	b	12·1
	Banff	11·2	3	-	54	46	bc. b	b	9·1
	Montrose	12·5	-	-	56	40	b	bc	5·7
	St. Andrews	13·1	-	-	57	39	b	b	11·2
	Carnoustie	*	*	*	59	52	bc	bc	9·8
Eng. N.E.	Harrogate	1·5	2	-	62	50	o.c.o	o	0·1
	Skegness	5·5	1	2	61	52	o	o	0·6
Eng. N.W.	Morecambe	1·6	2	-	70	52			1·7
	Southport	0·2	Trace	-	67	52	o.c	c.o	1·1
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0·9	2	Trace	67	53	c.o.bc	c.o.pt	0·6
Wales.	Rhyl	0·2	2	10	61	53	o.po	o.cp	0·5
	Colwyn Bay	*	*	*	61	54	c	co	1·0
	Llandudno	*	*	*	61	54	cr	c	0·7
	Aberystwyth		*	*	68	54	or.c	c.o	1·0

	STATIONS.	Sunshine for 27TH	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 28TH
			Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	6·8	4	Trace	61	57	o	c.o	1·2
	Felixstowe	4·2	2	-	67	58	cp.bc	bc.c	4·1
	Walton-on-Naze								
	Southend-on-Sea	5·3	2	-	71	57	c	o	1·7
England, S.E.	Margate	4·3	4	-	68	57	c.bc	c	3·7
	Hastings	5·2	2	-	67	57	bc. or. c	bc.o	1·7
	Eastbourne	6·0	2	1	64	58	bc. o.c	o.c.o.r	1·7
	Seaford				69	52	bc	op	1·9
	Brighton	6·1	-	Trace	65	57	o.c	c.r	1·0
	Worthing	7·0	-	-	66	59	c.bc	c.o	0·6
	Littlehampton				65	57			0·7
	Bognor								
	Bournemouth	7·8	5	Trace	64	57	o	o	0·1
England, S.W.	Weymouth		*	*	63	56	od.cm	cm.o	0·0
	Torquay	0·1	14	-	59	52	o	o.c.o	0·3
	Paignton				61	52	o	op	0·3
	Penzance	0·0	6	15	64	56	or.bc	o.tbrc	1·0
	Newquay	0·0	10	15	65	52	or. tbr	tbr	0·0
	Bude	0·5	1	2	66	55	c	otp	2·5
	Ilfracombe		7	Trace	64	56	o	o	0·0
	Weston-s-Mare	0·0	*	*	63	52	or. bc.r	c. tbr	0·2

REPORTS FROM FOREIGN STATIONS FOR THURSDAY, 28TH JUNE

	STATIONS.	Evening of 27: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 28TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Gorki	1020·3	70	NE	1	bc	1020·3		70	+6	E	1	b	-	*	61
	Velieki Luki	1022·1	64	N	2	b	1021·7	*	64	0	NNW	2	o	-	*	57
	Hangö	1020·7	57	SSW	2	c	1023·9	+3	57	-6	-	o	o	-	*	52
	Riga	1021·1	68	-	o	b	1022·4	o	72	+4	-	o	b	-	*	61
	Petrograd	1023·6	68	E	2	b	1024·4	+1	68	+5	SE	1	b	-		61
	Moscow	1019·5	73	ENE	1	b	1021·9	o	72	+2	NE	1	b	-	*	64
	Kiev	1015·7	?	NNE	2	o	1016·8	+2	68	o	NE	3	c	3	*	63
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015·0	75	-	o	b	1015·8	*	75	+3	NE	1	b	-	84	68
	Pesaro	1015·8	73	-	o	b	1016·3	*	75	o	-	o	b	-	81	63
	Rome	1015·7	73	-	o	b	1015·4	*	75	+5	-	o	b	-	84	63
	Viesti	1012·5	77	-	o	bc	1013·7	*	79	o	NW	1	b	-	82	72
	Brindisi	1014·2	73	-	o	c	1013·8	*	73	o	NW	1	b	-	75	68
	Cagliari	1013·3	79	SE	4	b	1014·9	*	73	+1	NW	3	b	-	81	59
	Palermo	1014·3	75	-	o	c	1013·9	*	73	+7	-	o	b	-	84	63
	Tripoli							*								
	Algiers															
Sweden.	Hernösand	1008·6	52	SE	2	c	1021·2	*	57	+2	-	o	b	*	*	*
	Stockholm	1017·2	68	SW	2	b	1022·6	*	63	o	SW	2	b	*	*	*
	Wisby	1019·0	61	SW	2	b	1023·0	*	61	-5	N	4	b	*	*	*

ICELAND.	Morning of 27TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather
		°F	°F			
Isafjord						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn	1012·4	43	-4	-	o	Y

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

29TH AND 30TH JUNE 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3·34 / 3·35	11·56 / 11·56	8·18 / 8·17
Greenwich	3·47 / 3·48	12·3 / 12·3	8·19 / 8·18
Wick	3·10 / 3·10	12·15 / 12·15	9·20 / 9·19
Valencia	4·25 / 4·26	12·44 / 12·44	9·3 / 9·2

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.

‡ The barometric change is expressed in half-millibars.

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THE MORNING OF FRIDAY, 29TH JUNE, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST DISTRICTS.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

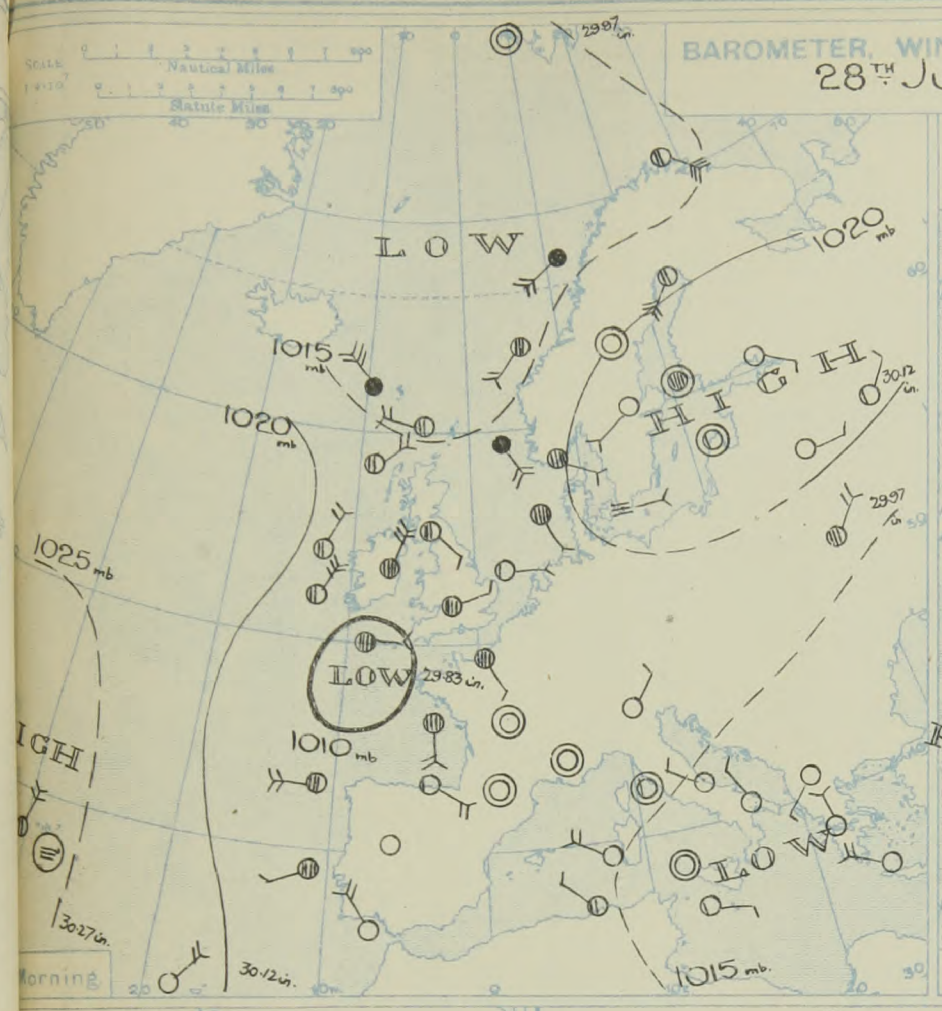
Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JUNE.

GENERAL INFERENCE.

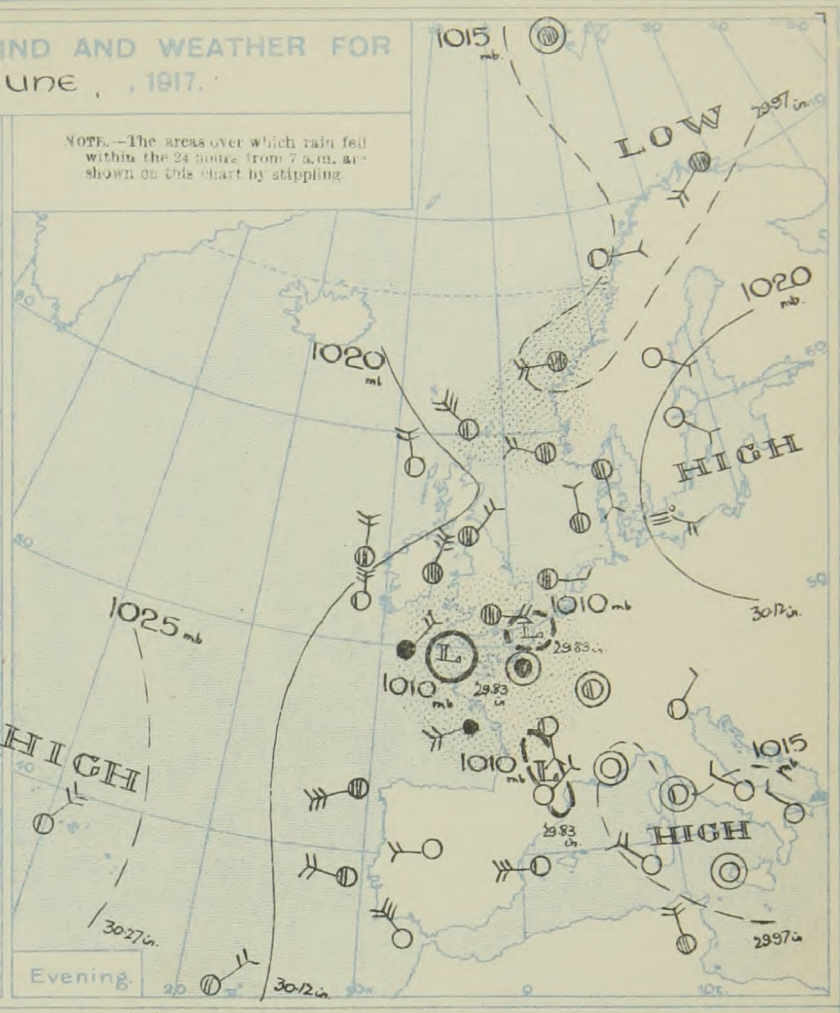
A gradual improvement is probable with the continued expansion of the Atlantic anticyclone.

1030 mb.
1025 mb
1020 mb
1015 mb
1010 mb
1015 mb
HIGH
LOW
LOW
Barometer slowly rising
29·97 in.
29·83 in.
30·42 in.
30·27 in.
30·12 in.
29·97 in.
50°
60°
70°

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



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



Forecasts 18h Friday to 18h Saturday.

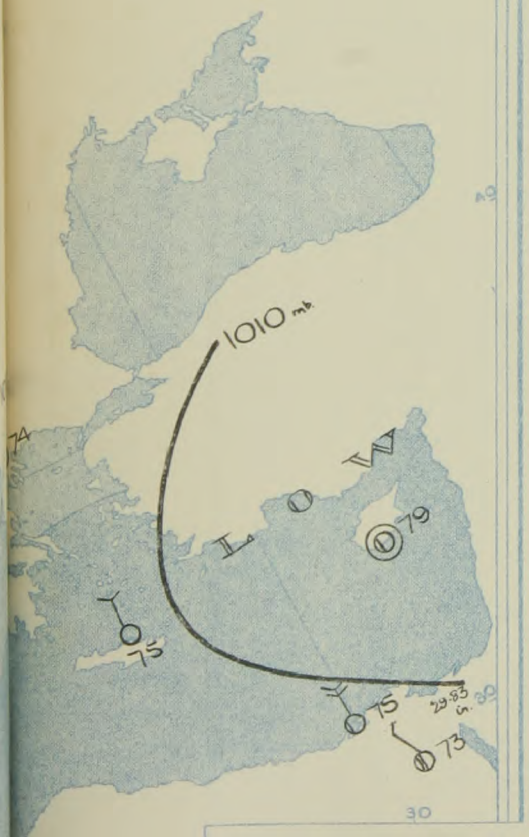
0{a b} 1 — Light to moderate Northerly breeze; fair generally; local showers; cool.

2{a b} 3 — Fresh to strong, squally North-Easterly wind, moderating; dull, some rain, local thunder,

4{a b c} 5 — improving later; cool.

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

11 — Moderate to fresh Northerly breeze; sea rather rough; cloudy, some showers; moderate temperature.



Western Channel and Bay.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 180. Friday, 29th JUNE.

	STATIONS	EVENING OF 28th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 29th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M.: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 28th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·1	49	NW	5	bc	1023·2	+2	47	+1	NW	4	NW	bc	4	0.3	52	44	bcp	bc	bc	*
	Deerness (Orkney)	1021·0	51	WNW	5	b	1024·0	*	49	0	NNW	4	N	bc	3	9	52	45	bc	bc	c	9.8
	Stornoway ...	1022·6	52	NNW	4	b	1026·4	+3	50	+1	N	2	-	c	2	-	57	42	bc	bc.b	b.bc	12.9
	Castlebay (Barra Isd.)																					
	Glasgow ...	1019·5	58	ENE	3	b	1025·0	+3	49	0	ENE	2	N	c	*	-	65	44	b	b	b.bc.c	15.3
	Eskdalemuir ...	1019·5	53	NE	4	bz	1023·9	+2	49	-5	NNE	4	NW	bw	*	-	61	40	bzw.bz	bz.b.bz	bg.bw	14.0
	Malin Head ...	1020·9	54	NNE	4	bc	1024·7	+2	51	-2	N	3	N	bcq	4	0.3	57	49	bc	bc	bcq	12.5
	Blacksod Point	1021·7	54	N	4	cg	1025·9	+3	53	+1	N	2	N	bc	2	-	58	47	bc	bc	cg.bc	*
	Valencia (Cahirciveen)	1019·4	60	N	5	b	1025·2	+4	53	-1	NNE	4	NE	bc	3	-	62	50	bc.b	b	b.bc	13.2
	Roche's Point	1016·7	60	N	3	bc	1021·7	*	51	-3	NNE	4	-	b	3	-	69	49	og.c	bc	bc.b	*
	Birr Castle ...	1019·0	58	NE	1	c	1024·0	*	48	-2	NNE	1	-	o	*	-	65	43	bc.c	c	bcc.o	14.5
	Donaghadee ...	1018·9	55	N	5	bz	1023·3	+3	51	+2	N	2	N	cm	2	-	56	48	bcz	bcz	cm.om	*
	Liverpool (Bidston)	1015·4	60	NE	3	o	1016·3	+2	53	-3	N	2	-	b	2	-	64	50	og	o	o.c.b	0.1
	Holyhead ...	1016·1	55	NNE	6	og	1020·5	+2	54	0	NE	5	-	bm	5	Trace	60	52	oe.cm	bc.c.om	o.c.bc.b	3.2
	Pembroke (St. Ann's)	1012·7	56	N	4	c	1017·6	+4	56	0	NNE	3	NE	bcq	3	5	63	53	o.r.c	cq	cq.bcq	0.5
	Scilly (St. Mary's)	1010·9	57	NE	3	omrqt	1016·1	+4	56	-2	N	4	N	opm	5	24	64	54	omq	omrqt	opm	1.2
	Falmouth ...	1009·6	62	N	2	og	1014·7	+4	56	-2	N	6	-	o	*	9	64	55	op.bc	bc.og	g.o.r.o	2.9
	Jersey (St. Aubin)	1010·3	62	SW	3	o	1011·9	*	59	-3	WNW	1	-	b	o	Trace	67	51	o.c.o	op.o	b	3.5
	Portland Bill ...	1010·5	58	-	0	cm	1011·6	+2	56	-1	NE	5	-	c	3	9	60	54	cf	f.c	omr.c	*
	Dungeness ...	?1010·3	60	E	2	r	1009·2	0	56	-3	SW	4	-	om	4	14	66	55	bc	bc.op	cr.f.m	*
	Dover	1010·6	66	NNE	3	o	1010·7	+4	55	-6	S	4	-	f	4	11	68	54	r.b	bc.o	or.f	6.2
	Wick	1020·7	51	NW	4	bcq	1024·9	+2	51	+3	NW	2	-	bc	2	-	54	40	bc	bcq	bcq.bc	*
	Nairn	1020·7	56	NE	1	bc	1025·6	*	52	+3	-	0	-	b	0	0.3	59	46	bc	bc	bc	9.0
	Aberdeen ...	1021·8	51	E	3	c	1024·8	+1	52	-2	NW	3	-	b	2	-	58	43	bc	bc.c	c.bc.b	7.7
	Leith	1019·6	57	E	2	b	1024·5	+2	51	-2	ENE	1	-	o	2	-	60	48	bg.bc.b	b	b.bcc.o	*
	Tynemouth ...	1019·1	55	NE	3	cq	1022·4	+2	52	+1	NE	4	NE	bcq	5	-	60	48	bm	bcm	bcq	*
	Spurn Head ...	1015·8	56	ENE	3	o	1015·9	o	52	-4	ENE	7	-	orq	6	2	59	51	or	o	orq	0.9
	Yarmouth (Gorleston)	1012·9	59	NE	2	o	1012·7	+3	57	-2	NE	7	-	orm	7	8	64	57	bc.omr	om	om	3.4
	Clacton-on-Sea	1011·9	63	E	2	o	1010·2	+2	58	+2	ENE	5	-	o	4	4	67	57	c.bc	bc.c.o	ogr.me	4.3
	Nottingham ...	1013·9	62	NE	3	c	1017·3	*	53	-2	NE	5	NE	o	*	8	63	52	r.o	o.c	cd.o	0.1
	Benson (Oxon.) ...	1010·5	63	ENE	3	o	1012·1	+3	53	-8	NNE	5	-	orm	*	38	65	53	or.o	ctr.c	or	*
	Sth Farnborough	1010·4	66	NE	2	r	1011·2	+3	56	-4	NNE	2	-	orm	*	28	69	55	r.or	or	ort.orm	0.3
	London (Kew Obsy.)	1010·8	66	E	3	orm	1010·9	+3	58	-5	N	3	-	od	*	30	73	55	orm.o.orm	oll.ot.o.orm	n.tlr.od	0.9
NORTHERN EUROPE.	Spitsbergen ...	1014·3	39	-	0	o	1014·3	c	37	-2	-	0	*	o	*	*	39	34				
	Vardö	1014·3	54	SW	4	o	1018·0	o	55	+9	S	2	-	b	2	*	59	39				
	Bodö	1015·2	50	E	2	b	1012·8	+3	50	+2	S	2	-	c	2	3	52	45				
	Christiansund ...	1013·9	46	W	4	o	1017·4	+2	52	-2	W	4	-	c	3	4	54	45				
	Skudesnaes ..	1018·7	54	WNW	3	c	1020·3	o	55	+1	NNW	3	-	c	2	16	67	45				
	Færder (X'tania Fjord)	1017·8	57	SW	2	o	1018·2	o	55	-2	*	1	-	r	1	2	57	55				
	The Scaw (Skagen)	1019·0	63	S	2	c	1017·8	o	59	o	-	o	-	r	o	5	63	57				
	Blaavands Huk	1016·7	64	N	2	c	1015·4	*	59	-4	NE	2	-	m	*	3	68	55				
	Copenhagen ...	1019·1	66	SSE	3	bc	1016·4	o	68	+5	SE	2	-	b	*	-	70	61				
	Bornholm ...	1020·4	61	ESE	3	m	1017·9	+1	66	-5	ESE	3	S	m	1	-	64	57				
FRANCE, &c.	The Helder ...	1012·8	68	E	1	c	1011·0	o	63	-1	NE	3	-	o	2	3	70	63				
	C. Gris Nez ...	1010·7	61	NE	2	tlr	1010·8	+2	57	-7	E	4	*	o	4	22	72	54				
	La Hève	1011·5	57	WSW	3	o	1011·4	*	56	-5	SW	3	*	bc	3	13	72	52				
	Brest (St. Mathieu)	1009·4	57	SW	1	c	1013·5	+3	57	-2	N	2	*	c	2	11	64	59				
	Rochefort (Ile d'Aix)	1014·3	61	WSW	4	r	1010·8	+2	60	-6	WSW	2	*	r	*	5	75	54				
	Biarritz	1015·0	64	NW	3	o	1015·9	o	66	-3	W	4	*	o	4	-	81	59				
	Paris	?1011·5	51	-	0	tlr	1013·6	+2	59	-5	S	2	-	o	*	16	80	54				
	Belfort	1013·0	76	-	0	b	1016·6	*	63	-	W	2	*	c	*	2	84	51				
	Lyons	1010·2	61	S	2	b	1016·2	*	59	-5	-	0	*	r	*	13	84	59				
	Nice	1015·6	73	-	0	b	1014·8	+1	71	-1	E	1	*	b	1	-	82	63				
	Perpignan ...	1010·6	79	NE	2	b	1014·4	+2	66	-6	NW	2	*	o	*	-	82	63				
	Sanguinaire ...	1016·4	78	W	3	m	1017·1	*	72	-1	E	2	*	m	2	-	86	64				
SOUTHERN STATIONS.	Corunna	1017·5	64	WSW	6	c	1024·2	+3	63	-1	NNW	6	-	o	2	5	68	61				
	Madrid	1013·9	81	W	3	b	1018·1	+3	64	-	E	1	-	b	*	-	82	57				
	Lisbon	1019·6	70	WNW	4	bc	1022·6	o	63	-1	NW	3	-	b	2	-	72	59				
	Azores (Horta) ...	1029·0	*	NE	4	b	1031·2	+1	63	+1	NNE	2	*	b	1	-	70	61				
	Madeira	1021·5	70	NE	3	bc	1023·0	o	64	o	NE	3		bc	3	-	70	64				
	Gibraltar	1018·0	73	NW	5	b	1019·3	*	67	+2	NW	4	*	b	3	-	85	65				
	Malta	*	*	*	*	*	1014·8	o	? 78	+1	N	2	-	b	o	-	82	73				
	Limassol	*	*	*	*	*	1008·2	+1	79	8	-	o	W	b	o	-	86	68				
	Alexandria ...	1010·4	73	NW	3	b	1011·1	+1	75	o	N	4	NW	b	2	-	82	70				
	Cairo (Helwan) ...	1009·5	61	NW	3	b	1011·4	+2	73	+1	NNW	1	-	bc	*	-	90	68				

LONDON OBSERVATIONS.

	Humidity. 15 h. 28th	Humidity. 9 h. 29th	Sunshine for 28th.	24 Hours ended 9 h. 29th. Temperature. Max.	Temp. Min.	Temp. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	84	97	0·4	74	55	55	4.6	o	ap.or	or
CITY (Bunhill Row)	*	*	0.2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	76	93	0.5	72	56	56	4.3	or	otru	tlr.or
CAMDEN SQ. (British Rainfall) ..	84	97	0.3	74	55	55	4.2	o	o.or	*
HAMPSTEAD (Reservoir)	*	79	0.8	69	52	47	4.0	bc.cptl	or	or.pl.
S. KENSINGTON (Museum Grounds)	*	98	0.5	72	57	55	5.7	c.o	og.tr	or

SOUTH KENSINGTON.

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

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
848	14.2	60.5

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

RAINFALL.

Equivalents of Millimetres in Inches.

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

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

Issue No. 20,309 **DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917.** { SATURDAY 30TH JUNE

YESTERDAY'S WEATHER: THE 24 HOURS COMMENCING 7 h. ON FRIDAY, 29TH JUNE 1917.

Temperature remained below 60° nearly everywhere. Showers fell over southern England. There was little or no sunshine in the south-east, elsewhere the records the records were good, up to 14·8 hours at Holyhead.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR FRIDAY, 29TH JUNE ... UP TO 17 H.

	STATIONS.	Sunshine for 28	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 29
			Mm.	Mm.	°F.	°F.			Hr.
Scotland.	Oban	14·9	-	-	61	49	bc	b	10·4
	Banff	10·9	-	-	54	47	bc.b	bc.b	11·6
	Montrose	5·7	-	-	57	38	b	b	3·0
	St. Andrews	11·5	-	-	56	47	b	b	6·6
	Carnoustie	*	*	*	57	51	oc	cf	6·8
Eng. N.E.	Harrogate	0·1	1	-	56	46	bc.b	b.bc	10·8
	Skegness	0·6	11	1	59	52	o	o	0·0
Eng. N.W.	Morecambe	1·7	-	-	64	50			11·7
	Southport		-	-	62	49	c.b.bc.	c.bc.c	11·0
Midlands.	Leamington Spa								
	Malvern								
	Ross-on-Wye	0·7	4	7	61	50	or	or	0·0
Wales.	Rhyl	0·5	-	-	62	43	c	bc	11·5
	Colwyn Bay	*	*	*	61	54	bc	bc	9·8
	Llandudno	*	*	*	61	54	b	b	11·5
	Aberystwyth	*	*	*	67	55	bc.b	bc.c	11·0

	STATIONS.	Sunshine for 28	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 17 h. 29
			Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	1·2	10	2	56	53	or	or	0·0
	Felixstowe	4·1	6	1	58	53	or	op	0·0
	Walton-on-Naze								
	Southend-on-Sea	1·7	7	2	62	57	o	od.r	0·0
England, S.E.	Margate	3·7	12	-	62	57	c	c	0·8
	Hastings	1·4	33	-	65	57	or.o	b.bc	4·3
	Eastbourne	1·7	42	Trace	63	59	o.c.bc.b	o.c.or	4·9
	Seaford								
	Brighton								
	Worthing	0·6	66	-	62	57	o	o	0·0
	Littlehampton								
	Bognor								
	Bournemouth	0·1	18	Trace	57	52	o	o	0·0
England, S.W.	Weymouth		*	*	59	53	cd	o	0·0
	Torquay	0·3	8	5	59	53	or	op	0·0
	Paignton								
	Penzance	1·0	16	-	64	56	oc	bc.c	5·5
	Newquay		28	-	60	55	oq.bq	bq	4·3
	Bude	2·5	36	1	62	55	c	c	0·4
	Ilfracombe	0·0	18	Trace	58	55	or	c	0·0
	Weston-s-Mare	0·2	26	4	57	53	r	or	0·0

REPORTS FROM FOREIGN STATIONS FOR FRIDAY, 29TH JUNE

	STATIONS.	Evening of 28TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 29TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1022·7	73	SW	1	bc										
	Gorki															
	Velieki Luki															
	Hangö						1021·7	0	63	+6	-	0	b	-		54
	Riga						1020·7	0	73	+1	-	0	b	-		63
	Petrograd	1022·0	81	E	3	bc	1021·9	+1	68	0	E	2	c	-	79	66
	Moscow	1021·7	77	SE	2	c	1024·6	+1	72	0	ESE	1	b	-		64
	Kiev	1016·6	75	E	3	c										
	Kharkov	1016·8	75	E	2	b	1019·0	+1	70		S	2	0	-		66
	Kishinev															
	Elisabetgrad															
	Nicolaiev															
	Odessa	1011·8	77	NE	3	0										
	Tarkhankout															
	Soukhoum															
Mediterranean.	Venice	1014·2	79	-	0	b	1014·2	*	73	-2	-	0	b	-	86	68
	Pesaro						1014·7	*	75	0	-	0	b	-	84	61
	Rome	1014·7	75	W	1	b	1014·9	*	77	+2	-	0	b	-	86	76
	Viesti	1015·0	77	NW	2	b	1015·1	*	77	-2	-	0	b	-	81	72
	Brindisi	1014·7	72	NW	1	b	1013·5	*	75	+2	NW	1	b	-	75	68
	Cagliari	1015·9	77	SE	4	b	1014·7	*	75	+2	NW	3	b	-	82	61
	Palermo							*								
	Tripoli						1015·0	*	75	+2						
	Algiers															
Sweden.	Hernösand	1019·5	?	SE	2	b	1019·3	*	54	-3	-	0	r	*	*	*
	Stockholm	1020·7	66	SSE	2	b	1021·9	*	68	+5	SSE	2	bc	*	*	*
	Wisby	1020·8	?	E	2	b	1020·2	*	63	+2	NNW	2	b	*	*	*

Morning of 28TH	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather
Iceland.		°F	°F			
Isafjord	1021·5	52		-	0	b
Reykjavik	1022·3	52		ESE	3	bc
Vestmanna						
Seydisfjord	1023·9	48		-	0	b
Thorshavn	1025·0	47		-	0	c

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

30 June & 1 July 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·35 / 3·35	11·56 / 11·56	8·17 / 8·14
Greenwich	3·48 / 3·48	12·3 / 12·3	8·18 / 8·18
Wick	3·10 / 3·11	12·15 / 12·15	9·19 / 9·19
Valencia	4·26 / 4·26	12·44 / 12·44	9·2 / 9·2

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

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‡ The barometric change is expressed in half-millibars.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

THE MORNING OF SATURDAY, 30TH JUNE, 1917.

GENERAL INFERENCE.

Quieter anticyclonic conditions will become general.

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 ≈≈.

1015 mb 36 LOW 29.97 in.

1020 mb

50°

30.12 in.

29.97 in.

LOW

1015 mb

1020 mb

1025 mb

1030 mb

HIGH

Barometer slowly rising generally

1030 mb

HIGH

30.42 in.

LOW

1015 mb

30.27 in.

30.12 in.

29.97 in.

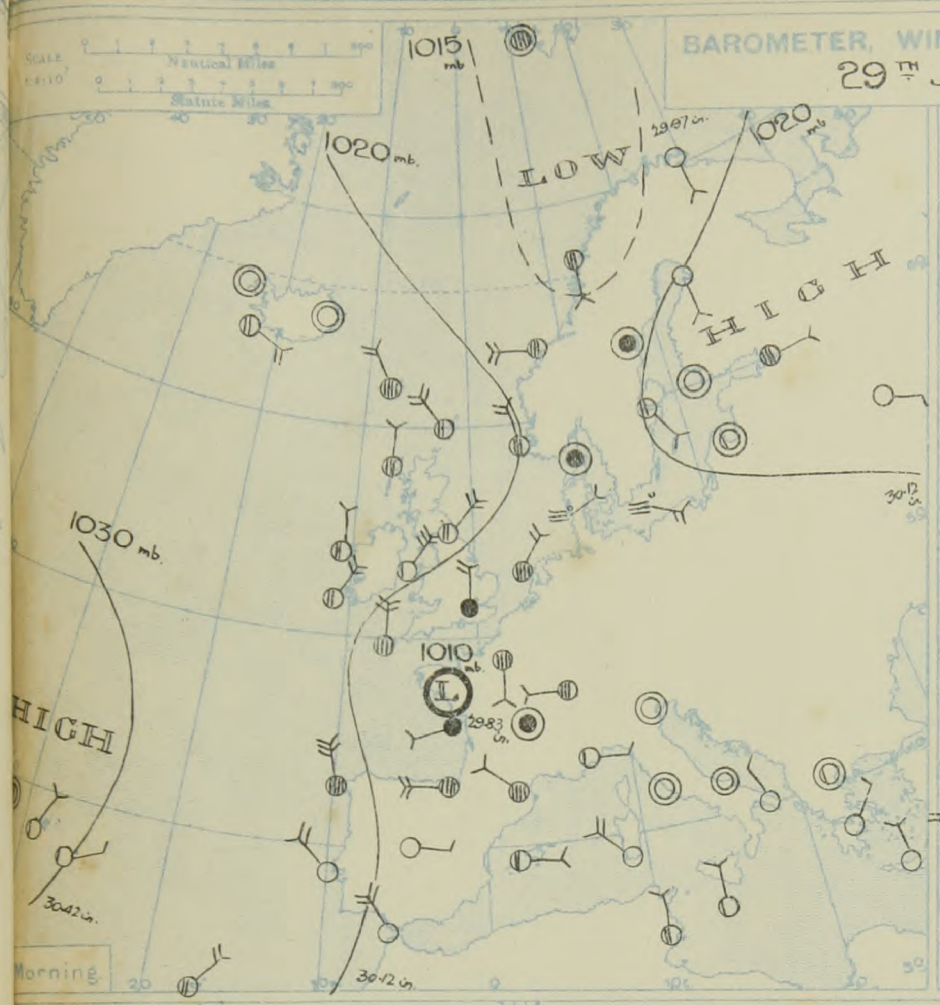
60°

70°

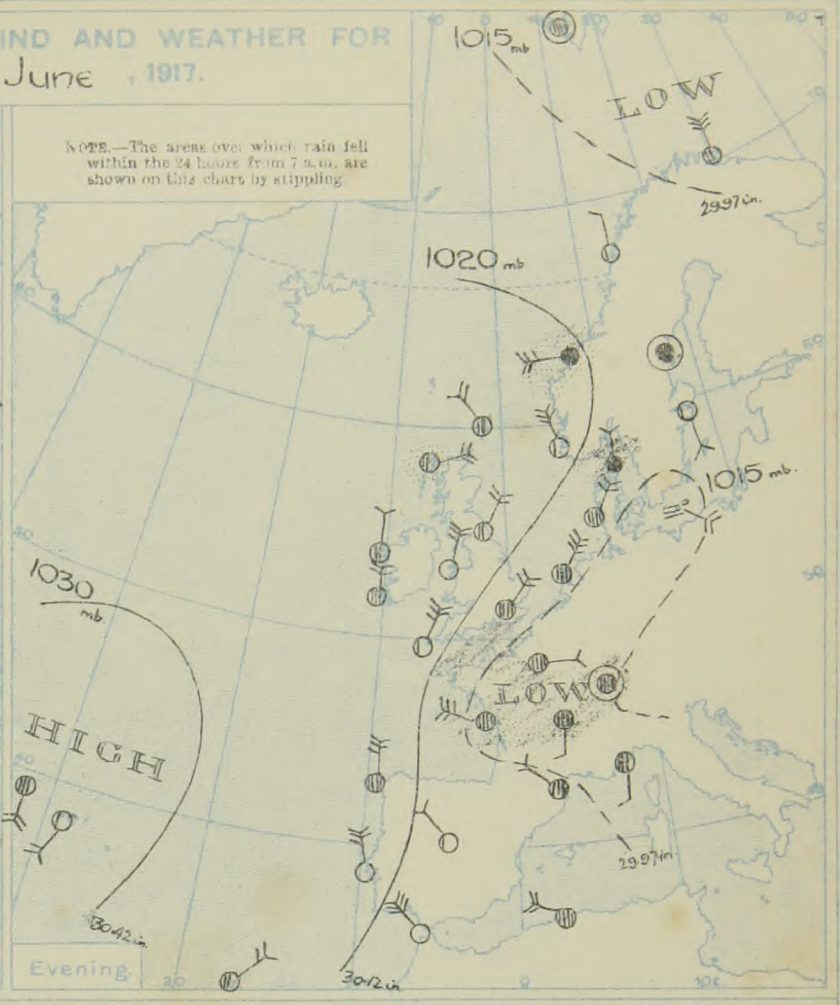
Scale of Miles
Nautical Miles
Statute Miles

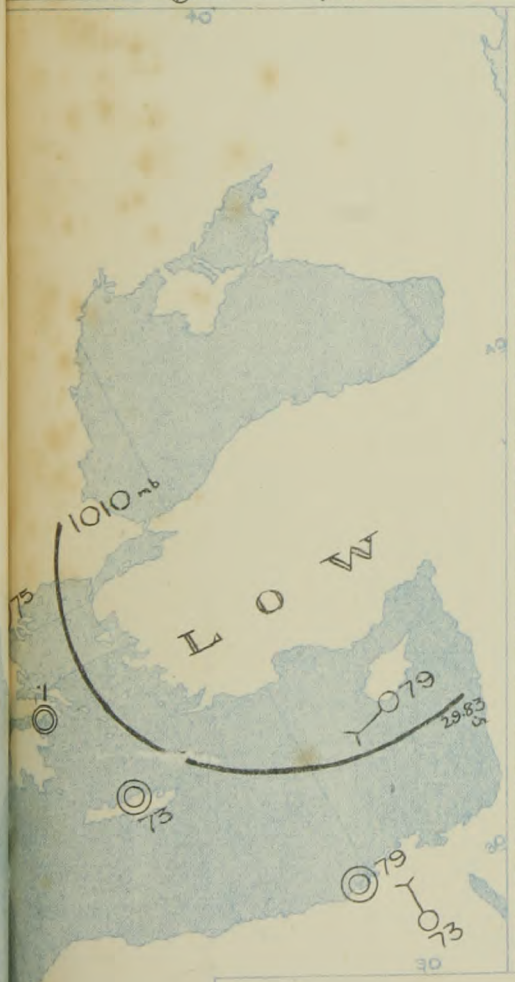
Normal Temperature of the Sea
Below 50° 50°-60° 60°-70° Above 70°
Scale of Tints for JUNE.

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



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





Western Channel and Bay.

Forecasts 18h Saturday to 18h Sunday

0 a b 1 — Light variable breezes, tending to become Southerly; fine generally; cool.

2 a b 3 — Strong squally North-Easterly wind, moderating

4 a b c 5 — cloudy, local showers at first, fair to fine later; cool.

6 a b 7 a b 8 a b 9 a b 10 a b — Same as Nos. 0 and 1.

11 — Squally fresh to strong Northerly wind, moderating; sea rough; dull, some showers, improving later; cool.

FURTHER OUTLOOK.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 181. Saturday. 30th June

	STATIONS.	EVENING OF 29th					MORNING OF 30th								24 HOURS ENDED 7 A.M.					Sunshine for 29th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	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.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.					±	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1026·8	49	NW	3	c	1029·8	+1	47	0	NW	3	N	c	3	-	49	45	c	o	o	*
	Deerness (Orkney)	1027·7	49	NNE	3	o	1030·1	*	47	-2	NNE	2	-	o	1	-	54	45	c	c.o	o	7.0
	Stornoway ...	1028·6	52	ENE	4	bc	1029·2	+1	51	+1	E	2	-	c	2	1	56	42	cp	c.bc	b.e.c	9.0
	Castlebay (Barra Isd.)																					
	Glasgow ...	1026·7	57	E	2	c	1030·7	+2	47	-2	ESE	1	NW	bcg	*	-	61	41	bc.c	c	c.b.bcg	6.6
	Eskdalemuir ...	1026·7	53	NE	4	bc	1030·4	+1	49	0	NNE	3	-	bw	*	-	57	35	bv.bc.c.o	o.c.bc	bc.b	12.2
	Malin Head ...	1028·2	54	N	3	bcv	1030·0	+1	51	0	S	1	-	bg	1	-	56	48	bcv	bcv	bg	13.2
	Blacksod Point	1028·4	56	N	2	bc	1029·7	0	53	0	SE	2	-	bc	1	-	59	46	bc	bc	bc.c	*
	Valencia (Cahirciveen)	1027·4	58	N	4	c	1029·6	+1	53	0	-	0	-	bw	2	-	61	46	bc.b	b.bc	bc.b.bw	14.0
	Roche's Point	1025·3	60	N	3	b	1029·3	*	52	+1	NNW	1	N	c	1	-	63	49	b.bc	bc.b	b.bc.c	*
	Birr Castle ...	1026·0	64	NNE	1	c	1029·0	*	49	+1	NNW	1	N	c	*	-	65	43	c	c	c	10.1
	Donaghadee ...	1026·0	52	NNE	4	bcm	1030·0	+3	51	0	S	2	-	bm	1	-	57	47	bcm	bcm	bcm.bm	*
	Liverpool (Bidston)	1024·2	58	NNE	3	bc	1029·3	+2	51	-2	NNE	1	-	b	2	-	63	45	b	b.bc	b	12.7
	Holyhead ...	1024·9	59	NNE	6	bz	1029·2	+2	53	-1	ENE	4	-	bg	3	-	61	49	b.bcg	b.bg	bg	14.8
	Pembroke (St. Ann's)	1022·8	56	N	5	bc	1027·2	+5	52	-4	NE	3	-	bc	2	-	61	47	bcq	bcq	bc	12.8
	Scilly (St. Mary's)	1022·5	57	NNE	5	bm	1026·9	+2	55	-1	ENE	1	N	cm	4	-	60	53	cm.bm	bm	b.bc.cm	10.9
	Falmouth ...	1020·8	62	N	4	bz	1026·1	+2	50	-6	N	2	-	bc	*	-	63	46	ogq	ogq.bq	bcq	2.5
	Jersey (St. Aubin)	1015·0	58	N	4	ogm	1022·1	*	54	-5	N	3	-	o	3	Trace	63	53	bc.o.bc.c	ogm	ogp.o	6.9
	Portland Bill ...	1017·4	54	NNE	7	o	1023·3	+3	51	-5	NNE	6	NE	c	4	4	59	47	c.op	o	o.c	*
	Dungeness ...	1015·1	60	NE	6	c	1019·6	+3	54	-2	N	7	N	c	6	-	61	53	f.b	bc	bcm.c	*
	Dover	1015·4	56	N	6	o	1021·8	+2	52	-3	NNE	7	N	r	6	17	56	50	o.f.o	bc.o	q.or	3.6
	Wick	1028·2	49	NW	3	bc	1030·5	+1	48	-3	N	1	-	bc	1	-	54	33	bcm.c	c.bc	bcm.bc	*
	Nairn	1027·7	55	E	1	bc	1030·1	*	52	0	-	0	-	bc	1	-	58	36	bc	bc.b	bcw	12.6
	Aberdeen ...	1027·7	54	N	2	bc	1030·9	+2	48	-4	NNW	2	-	bc	2	-	55	39	b.bc.o	c.bc.b	bc.b	7.9
	Leith	1027·1	56	E	2	b	1030·8	+1	49	-2	NE	1	E	c	1	-	58	41	o.c.bc.b	b	b.bg.bc	*
	Tynemouth ...	1026·4	54	NNE	4	bcq	1029·4	+2	52	0	NNW	3	NE	bcq	4	-	55	45	bcq	bcq	bcq	*
	Spurn Head ...	1021·7	54	NE	6	bcq	1026·3	+1	53	+1	NNE	5	-	cq	5	3	55	48	oq	bcq	cq	1.6
	Yarmouth (Gorleston)	1018·5	53	NE	7	r	1022·6	+2	55	-2	NE	7	-	bcq	7	7	58	52	omrq	omrq	omrq	0.0
	Clacton-on-Sea	1017·8	54	N	5	o	1022·9	+2	54	-4	NE	4	NE	o	4	1	59	52	ogmd	ogpd	ogpd	0.0
	Nottingham ...	1023·0	54	NE	4	c	1027·3	*	51	-2	NE	3	NE	o	*	1	55	48	op	p.o.c	c	0.2
	Benson (Oxon.) ...	1020·5	50	NNE	5	o	1024·3	+2	51	-2	NNE	3	-	o	*	9	54	48	omr	o	o	*
	Sth Farnborough	1019·4	52	NE	3	r	1023·6	+3	52	-4	NNE	4	-	o	*	3	56	49	omr	or	ormodo	0.2
	London (Kew Obsy.)	1019·7	53	NE	4	o	1024·3	+3	53	-3	NNE	4	-	o	*	2	58	51	od.or.od	od.o	o.od.o	0.2
NORTHERN EUROPE.	Spitsbergen ...	1013·6	36	-	0	o	1013·5	+1	36	-1	-	o	*	m	*	*	*	37	32			
	Vardö	1012·7	32	N	6	bc	1018·9	+2	48	-7	N	5	-	o	5	*		55	43			
	Bodö	1019·7	50	N	1	b	1020·4	+1	54	+4	-	o	N	c	o	-		50	43			
	Christiansund ...	1020·7	48	W	5	r	1026·2	+4	50	-2	W	3	-	r	3	6		52	46			
	Skudesnaes ..	1021·2	54	NNW	5	b	1023·8	+1	55	0	NNW	6	-	b	2	-		55	48			
	Færder (X'tania Fjord)	1016·3	57	W	1	o	1020·8	+3	57	+2	NNE	6	-	b	2	-		59	54			
	The Scaw (Skagen)	1018·3	57	N	2	r	1019·0	+4	57	-2	NNE	3	-	b	3	6		59	54			
	Blaavands Huk	1016·0	57	NNE	4	o	1019·4	?	59	0	NNE	3	-	b	?	?		64	54			
	Copenhagen ...	1012·3	70	SSE	2	c	1015·1	+3	63	-5	NNE	4	-	c	*	-		77	63			
	Bornholm ...	1013·6	68	SE	4	m	1013·5	+1	64	-2	NNE	2	-	m	o	1		72	63			
FRANCE, &c.	The Helder ...	1015·7	59	NNE	6	o	1020·2	+2	57	-6	NNE	6	S	bc	4	Trace	66	55				
	C. Gris Nez ...	1016·4	58	NNE	4	o	1019·9	+3	54	-3	NNE	7	*	o	7	3	66	52				
	La Hève	1013·6	59	N	3	bc	1019·1	*	54	-2	NE	4	*	o	5	-	64	50				
	Brest (St. Mathieu)	1019·1	57	N	4	o	1024·2	+3	53	-4	NNE	4	*	o	2	2	61	52				
	Rochefort (Ile d'Aix)	1013·1	63	WNW	5	o	1015·9	+3	59	-1	N	5	*	o	*	5	66	59				
	Biarritz												*									
	Paris	1013·1	68	E	1	o	1016·2	+3	61	+2	NNE	2	-	o	*	-	73	59				
	Belfort	1015·0	63	-	0	o	1015·8	*	59	-4	WSW	3	*	e	*	6	77	53				
	Lyons	1011·9	69	S	1	o	1014·9	*	57	-2	-	o	*	c	*	5	71	53				
	Nice	1013·3	67	S	1	c	1018·4	o	72	+1	-	o	*	b	o	-	81	59				
	Perpignan ...	1015·3	68	NW	2	o	1015·4	o	68	+2	WNW	3	W	bc	*	Trace	79	57				
	Sanguinaire ...	1014·6	73	NW	3	c	1013·6	*	75	+3	E	3	*	bc	2	-	86	66				
SOUTHERN STATIONS.	Corunna	1026·3	64	N	5	o	1027·5	+1	63	o	NNE	5	-	b	2	-	66	59				
	Madrid	1016·8	75	NW	2	b	1020·7	+1	61	-3	NNE	1	-	b	*	-	77	55				
	Lisbon	1021·6	70	NNW	5	b	1019·4	o	63	o	NNW	4	-	b	2	-	73	59				
	Azores (Horta) ...	1033·0	*	SSW	3	b	1033·0	+1	62	-1	-	o	*	b	o	-	75	61				
	Madeira	1023·0	72	NE	3	bc	1023·1	-1	63	-1	NE	4	-	b	4	-	73	63				
	Gibraltar	1018·6	69	NW	6	b	1015·6	*	65	-2	E	4	*	m	3	-	83	64				
	Malta	*	*	*	*	*	1013·5	+1	77	-1	W	2	-	b	o	-	81	72				
	Limassol	*	*	*	*	*	1009·0	o	79	o	WSW	2	-	b	o	-	86	63				
	Alexandria ...	1011·8	76	NNW	3	b	1012·3	o	79	+4	-	o	-	b	o	-	84	72				
	Cairo (Helwan) ...	1010·9	84	NW	3	b	1011·8	+1	73	o	N	2	-	b	*	-	91	68				

RAINFALL

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. 29th	Humidity. 9 h. 30th	Sunshine for 29th	24 Hours ended 9 h. 30th. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	95	70	0.0	58	50	48	1	o	o	od
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	99	54	0.0	59	52	50	1	or	or	od
CAMDEN SQ. (British Rainfall) ..	95	70	0.0	58	51	50	1	od	od	*
HAMPSTEAD (Reservoir)	*	69	0.0	57	48	40	3	or	or	o
S. KENSINGTON (Museum Grounds)	*	71	0.0	59	52	50	1	or	or.od	or.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 29th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
246	4·1	19

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

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