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M.O. FORM 2610.

METEOROLOGICAL OFFICE.

LONDON

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# DAILY WEATHER REPORTS

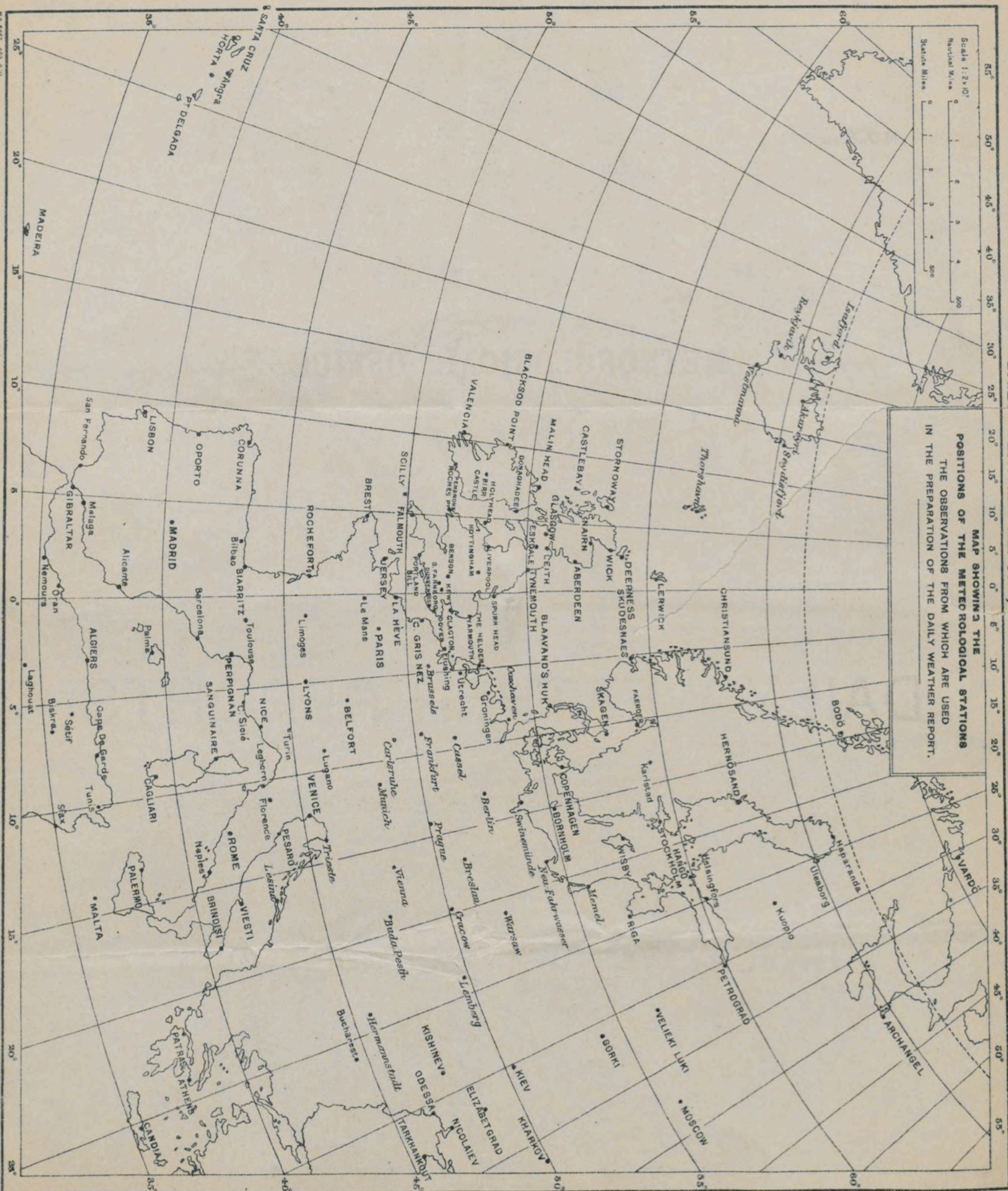
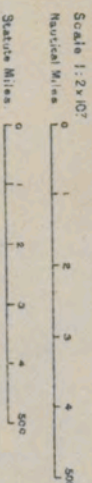
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1<sup>ST</sup> JULY TO 31<sup>ST</sup> DECEMBER, 1916.



# DAILY WEATHER REPORT, JULY-DECEMBER, 1916.

MAP SHOWING THE  
POSITIONS OF THE METEOROLOGICAL STATIONS  
THE OBSERVATIONS FROM WHICH ARE USED  
IN THE PREPARATION OF THE DAILY WEATHER REPORT.



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



# DAILY WEATHER REPORT. APPENDIX I.

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

### THIRD QUARTER, JULY TO SEPTEMBER.

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

JULY.

AUGUST.

SEPTEMBER.

STATIONS.	PRESSURE 1906-1915. 7 a.m. Observations (reduced to M.S. Level).	AIR TEMPERATURE.								RAINFALL 1881-1915.		BRIGHT SUNSHINE. 1881-1915.					
		Means of			Absolute Extremes.					Days with Rain.	Total Fall.	Daily Mean.	Per Centage of Possible Duration.				
		1906-1915.	1881-1915.		1881-1915.												
			Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Maximum.		Minimum.									
						Temp.	Year.	Temp.	Year.								
Lerwick	mb.	°F.	°F.	°F.	°F.	1897, 1911	°F.	1888	17	mm.	in.	hr.	%				
Stornoway	1012.5	51.7	57.0	48.2	70	1894	37	1888	21	58	2.29	4.68	27				
Castlebay (Barra Isd.)	1013.1	53.5	60.2	48.9	76	1914	32	1888	18	77	3.03	5.42	32				
Eskdalemuir	1013.2	54.4	61.7	51.6	73	1913	44	1913	18	69	2.70	5.10	31				
Malin Head	1014.8	53.8	62.8	46.9	83	1911	34	1914	16	90	3.56	—	—				
Blackod Point	1013.4	54.5	60.6	52.3	79	1911	42	1888, 1902	19	72	2.84	—	—				
Valencia	1014.8	56.1	62.2	53.2	80	1894	42	1898	21	80	13.15	—	—				
Roche's Point	1016.3	56.9	63.8	53.8	81	1911	40	1907	21	96	3.78	5.13	32				
Birr Castle	1016.5	56.6	64.7	53.7	76	1887, 1912	43	1907	15	73	2.88	—	—				
Donaghadee	1015.4	55.2	60.3	51.1	86	1911	37	1889	17	75	2.95	4.65	29				
Liverpool (Observatory)	1014.6	54.5	61.2	51.8	80	1887	40	1881, 1902	17	71	2.80	—	—				
Holyhead	1015.1	56.6	63.7	54.2	88	1901	45	1888, 1907, 13	15	66	2.59	6.03	37				
Pembroke (St. Ann's Hd.)	1015.1	56.9	63.3	53.6	85	1901	43	1888	16	66	2.61	5.87	36				
Seilly (St. Mary's)	1015.7	56.4	62.3	54.5	81	1911	43	1910	14	63	2.47	6.68	42				
Falmouth	1016.7	57.9	64.8	56.2	78	1911	47	1910	15	56	2.22	6.97	45				
Jersey (St. Aubin's)	1017.0	58.6	65.8	55.1	80	1885	46	1897	15	72	2.84	7.26	46				
Portland Bill	1017.4	60.2	68.3	56.4	87	1900, 1901	44	1907, 1909	13	53	2.10	7.94	51				
Dungeness	1016.2	58.3	64.5	55.8	79	1901, 1912	49	1900, 1907	11	44	1.74	—	—				
Dover	1015.6	59.1	66.6	55.1	82	1900	40	1890	12	46	1.81	—	—				
Wick	1015.5	59.7	66.7	53.8	87	1911	44	1913	14	56	2.19	6.77	43				
Nairn	1012.9	52.6	60.6	48.4	80	1899, 1901	30	1885	18	67	2.63	—	—				
Aberdeen	1013.0	53.8	61.3	49.1	85	1901	36	1906	18	68	2.68	4.52	27				
Leith	1013.5	55.1	62.8	50.3	81	1885	38	1898, 1903	17	71	2.81	5.13	30				
Tynemouth	1013.7	55.8	63.8	51.4	81	1901	41	1887, 88, 92, 1903	16	65	2.55	—	—				
Spurn Head	1014.2	55.8	64.2	51.3	82	1911	39	1909	14	61	2.40	—	—				
Yarmouth	1014.4	57.4	65.0	54.3	86	1911	44	1888	12	45	1.78	5.10	31				
Clacton-on-Sea	1014.8	58.1	66.2	54.7	87	1881	42	1890	13	59	2.34	6.45	40				
Nottingham	1015.5	58.8	67.7	54.7	83	1911	40	1902	11	49	1.92	7.00	44				
LONDON (Kew Obsy.)	1015.2	57.0	69.7	52.2	92	1881	37	1888	15	61	2.38	5.71	35				
LONDON (Kew Obsy.)	1016.1	58.5	71.0	54.3	90	1881	43	1882, 1884	12	55	2.17	6.48	41				
Lerwick	1010.4	52.4	57.1	48.4	82	1910	38	1885, 95, 1909	20	76	3.01	—	—				
Stornoway	1011.4	53.3	60.0	49.0	75	1897, 1899	33	1888	22	101	3.97	4.29	28				
Castlebay (Barra Isd.)	1012.1	55.0	61.3	52.2	75	1911	44	1912	18	83	3.27	4.65	31				
Eskdalemuir	1014.0	51.8	61.0	46.5	79	1914	31	1912	18	122	4.79	4.19	29				
Malin Head	1011.8	55.0	61.0	52.8	80	1900	42	1912	21	90	3.52	—	—				
Blackod Point	1013.0	56.6	62.1	53.4	78	1899, 1911	42	1887, 88, 1912	22	116	4.58	—	—				
Valencia	1014.9	57.1	63.9	53.9	81	1899	42	1890, 1912	22	122	4.79	5.00	35				
Roche's Point	1015.3	56.8	64.5	53.7	78	1887	41	1912	18	96	3.78	—	—				
Birr Castle	1014.1	54.7	65.4	50.8	83	1911	35	1885, 1887	19	97	3.81	4.58	32				
Donaghadee	1013.2	54.5	61.1	51.9	78	1899	38	1886	19	84	3.32	—	—				
Liverpool (Observatory)	1014.0	56.7	65.0	53.9	87	1911	44	1885	17	78	3.08	5.58	38				
Holyhead	1014.0	57.5	65.4	54.0	86	1914	45	1888	17	81	3.18	6.06	42				
Pembroke (St. Ann's Hd.)	1014.8	57.4	62.8	55.1	82	1911	46	1912	16	80	3.15	6.16	43				
Seilly (St. Mary's)	1015.8	58.7	65.0	56.6	76	1911	48	1912	16	67	2.62	7.10	50				
Falmouth	1016.3	58.4	65.4	55.1	77	1909	44	1890	16	83	3.25	6.81	48				
Jersey (St. Aubin's)	1017.0	61.2	68.8	57.1	89	1893	45	1890, 1909	14	62	2.44	7.74	54				
Portland Bill	1015.6	59.6	65.2	56.5	81	1911	47	1912	12	54	2.12	—	—				
Dungeness	1015.4	59.7	67.3	55.5	82	1904	39	1890	13	50	1.98	—	—				
Dover	1015.6	59.9	67.1	54.2	89	1911	44	1913	14	58	2.27	6.87	48				
Wick	1011.2	52.6	60.6	48.2	85	1893	30	1886	21	70	2.75	—	—				
Nairn	1011.4	53.2	61.7	48.7	86	1899	31	1885, 91, 1904	19	61	2.41	4.13	28				
Aberdeen	1012.2	54.5	62.4	49.9	81	1882, 99, 1905	33	1885	18	70	2.74	4.81	32				
Leith	1012.4	55.5	63.4	51.2	85	1893, 1906	38	1881, 1892	17	75	2.94	—	—				
Tynemouth	1013.2	55.5	64.2	51.1	83	1893	38	1912	16	70	2.75	—	—				
Spurn Head	1013.8	57.7	65.1	54.4	87	1893	45	1902	14	54	2.11	5.55	38				
Yarmouth	1014.7	58.1	66.3	54.2	85	1893	41	1902	14	63	2.47	6.29	44				
Clacton-on-Sea	1015.3	59.1	67.5	54.9	85	1911	43	1908, 1915	14	47	1.86	6.87	48				
Nottingham	1014.5	55.8	68.4	51.2	94	1911	37	1908	16	63	2.49	5.42	37				
LONDON (Kew Obsy.)	1015.8	58.0	69.7	53.5	94	1911	41	1890	13	57	2.24	6.03	42				
Lerwick	1015.5	49.7	54.6	46.5	69	1898	34	1887, 1888	20	76	3.01	—	—				
Stornoway	1016.5	50.4	57.7	46.2	77	1906	32	1885, 1904	21	100	3.95	3.83	30				
Castlebay (Barra Isd.)	1016.5	52.8	56.9	50.2	68	1914	39	1915	16	70	2.75	4.00	32				
Eskdalemuir	1017.9	46.3	58.1	41.6	71	1914	27	1910, 11, 14, 15	12	60	2.36	4.27	34				
Malin Head	1016.9	52.9	58.9	50.6	84	1906	38	1886	17	67	2.62	—	—				
Blackod Point	1017.6	54.6	60.1	51.1	78	1898	39	1899	19	99	3.88	—	—				
Valencia	1018.4	54.1	61.8	51.3	79	1898, 1906	35	1899	18	105	4.14	4.43	36				
Roche's Point	1019.1	54.6	61.8	51.4	73	1895, 1906, 11, 13	39	1893	16	75	2.97	—	—				
Birr Castle	1018.5	50.9	62.1	47.0	80	1906	29	1899	15	58	2.29	4.20	34				
Donaghadee	1018.3	52.2	60.3	49.4	75	1906	36	1882, 94, 99, 1909	16	61	2.39	—	—				
Liverpool (Observatory)	1018.9	52.6	61.4	50.7	87	1906	39	1885, 1914, 15	15	61	2.41	4.47	36				
Holyhead	1018.5	54.9	61.0	51.8	77	1898	41	1912	15	68	2.68	5.60	45				
Pembroke (St. Ann's Hd.)	1018.6	54.7	60.8	52.8	74	1895	40	1885	14	69	2.73	5.00	40				
Seilly (St. Mary's)	1018.5	56.6	62.5	54.7	74	1911	44	1885, 88, 1912	15	62	2.45	5.60	45				
Falmouth	1019.3	55.1	62.1	52.7	75	1906	36	1885	15	74	2.91	5.43	44				
Jersey (St. Aubin's)	1019.3	57.7	66.0	54.6	89	1906, 1911	41	1891	14	61	2.41	6.20	50				
Portland Bill	1018.7	56.8	62.9	54.1	75	1911	42	1915	12	48	1.8						

\* Results for 30 years, 1886-1915.  
† " " 10 " 1900-1915.  
‡ " " 15 " 1901-1915.

↓ Results for 9 years, 1907-1915.  
§ " " 8 " 1908-1915.  
|| " " 6 " 1910-1915.

¶ Results for 5 years, 1911-1915.  
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 183.

Saturday

1st July

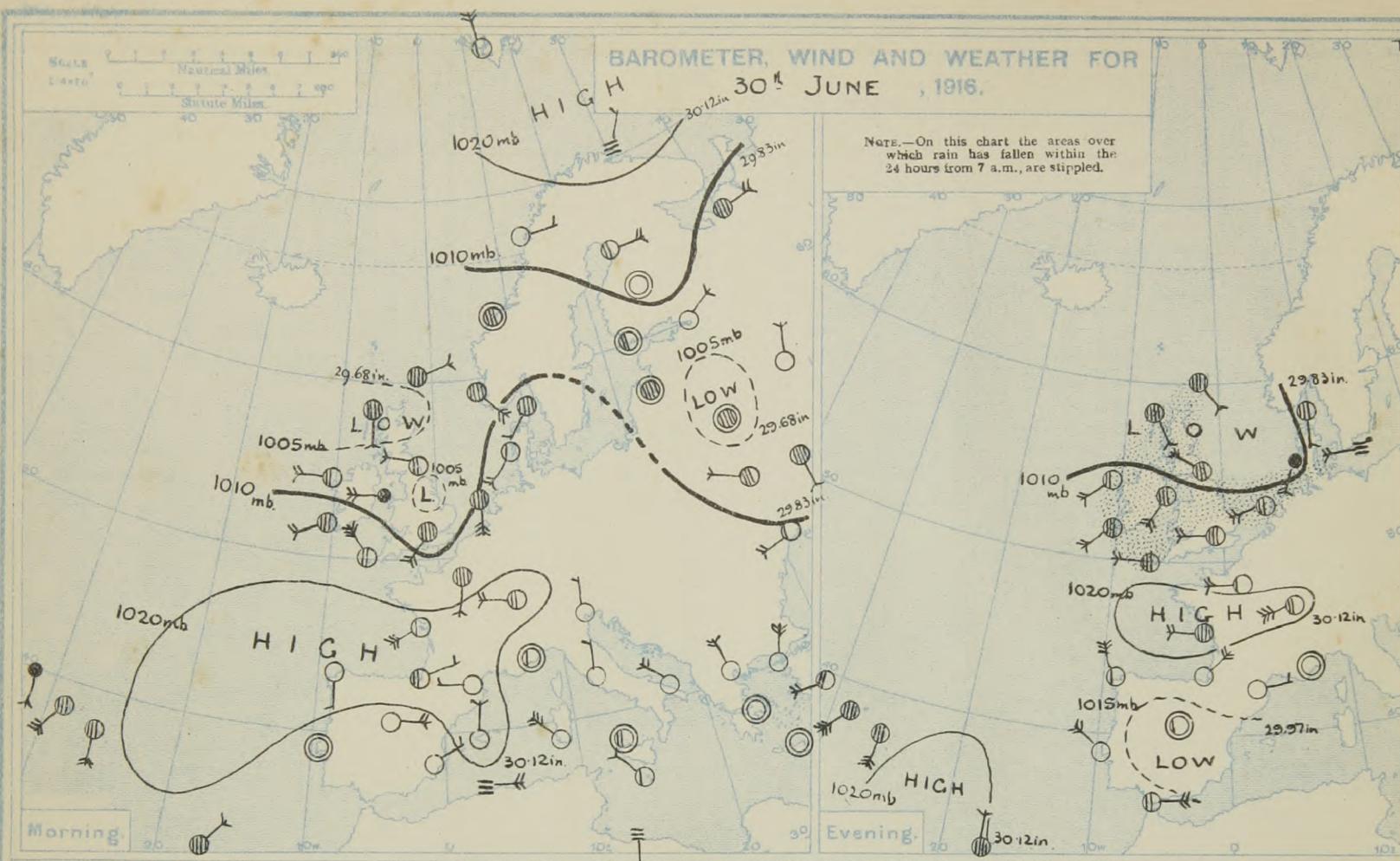
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 2 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours. °F.						Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																					
Lerwick ...	1007.5	51	SE	2	bm	1011.7	0	47	-4	ESE	1	-	f	1	0.2	51	46	op.m	m	m.f.	*
Deerness (Orkney) ...	1005.4	51	S	1	f	1009.8	*	50	-1	SE	1	-	f	0	9	53	48	fd.f	f	f	0.0
Stornoway ...	1006.6	55	SSE	3	op	1007.6	0	54	+4	NE	2	-	c	2	1	59	48	o.c	c.op	c.c	0.1
Castlebay (Barra Isd.) ...	1006.7	53	SE	4	c	1005.9	0	53	+2	SE	3	-	o	3	2	55	50	r.o.c	c.c	c.op	4.8
Glasgow ...	1008.7	57	W	3	bc	1009.5	-1	54	+4	SSW	2	-	c	*	1	59	48	c.op	op.c	bc.b	5.1
Eskdalemuir ...	1009.1	57	W	4	bc	1010.5	-1	51	+1	S	3	SW	c	*	-	61	42	bc.c	bc	bc.b	10.1
Malin Head ...	1007.8	54	WSW	5	op	1005.9	-1	51	-2	S	4	SW	cg	4	1	58	49	bc	cg	og	3.1
Blacksod Point ...	1011.3	56	SW	3	bc	1006.7	-3	52	-1	SW	2	-	omr	1	1	58	50	bc	bc	bc.c	*
Valencia ...	1014.4	58	SW	3	c	1009.3	+2	52	-2	NW	2	NW	o	3	12	60	49	c.op	bc	c.op	8.2
Roches Point ...	1016.0	58	SW	3	c	1007.5	*	52	-1	NW	4	-	r	3	11	62	51	bc.c	c	or	*
Birr Castle ...	1011.8	58	SW	2	c	1006.9	*	50	-3	-	0	-	r	*	10	61	47	c	c	c.or	10.6
Donaghadee ...	1009.9	60	W	4	cr	1008.8	-1	52	+1	S	2	S	cg	2	1	63	47	cg	cg	cg	*
Liverpool (Bidston) ...	1012.3	57	WSW	4	bc	1011.2	-2	51	-2	SE	1	-	r	2	6	60	51	op.c	b	o.c	5.6
Holyhead ...	1012.5	55	SW	4	cg	1008.1	-5	51	-1	E	5	-	omr	4	4	60	57	op.c	op.c	op.c	7.0
Pembroke (St. Ann's) ...	1016.2	56	WSW	5	bc	1009.7	-4	56	+2	SSW	6	-	or	5	5	57	54	bc	bc	fr	11.1
Scilly (St. Mary's) ...	1018.6	59	W	3	c	1012.5	-4	57	+3	SW	5	SW	op	5	1	62	54	bc	bc	c.op	11.4
Falmouth ...	1018.6	59	WNW	4	b	1013.1	-2	57	+2	SW	5	-	o	*	1	62	53	bc	bc	b.bc	11.0
Jersey (St. Aubin) ...	1019.6	59	WNW	5	b	1018.1	*	57	0	SSW	3	-	b	3	-	61	46	o.c	b	bc	8.8
Portland Bill ...	1016.6	57	WSW	5	bc	1016.0	-1	55	0	SSW	5	SW	c	4	-	59	54	bc	bc	bc.c	*
Dungeness ...	1015.5	58	SW	6	c	1017.7	0	56	-1	WSW	3	SW	bc	4	-	61	48	c	c	b.bc	*
Dover ...	1015.0	57	SW	5	bc	1017.7	0	56	-1	WSW	3	SW	bc	4	-	61	48	c	c	b.bc	*
Wick ...	1006.0	53	NW	2	o	1009.5	+2	50	-1	ESE	2	-	o	2	6	54	49	r.o.m	ongd	c.om	*
Nairn ...	1006.4	56	-	0	c	1008.3	*	56	+4	-	0	-	b	1	2	57	41	d.o.c	op	op	0.0
Aberdeen ...	1007.1	54	S	2	r	1009.6	+1	52	+5	-	0	-	b	1	2	59	47	ogmr	or.d.m	op.c	0.0
Leith ...	1008.9	58	W	1	o	1009.9	0	54	+4	E	1	W	bc	1	-	60	41	o	o	o.c	*
Tynemouth ...	1009.4	55	NW	3	cmp	1011.3	0	55	+3	W	1	W	bc	3	6	59	47	cm	cmp	bc	*
Spurn Head ...	1010.5	57	NW	5	c	1014.0	0	54	-4	W	4	-	bc	4	1	59	48	bc	bc	bc	1.4
Yarmouth ...	1012.7	58	NW	2	bc	1016.4	+2	55	-2	WSW	3	-	b	2	3	63	48	c	c	bc	4.0
Clacton-on-Sea ...	1013.7	59	WNW	3	bc	1016.7	0	56	-1	SSW	3	NW	bc	2	0.3	66	49	c.c	bc	bc	5.1
Nottingham ...	1012.7	57	W	3	c	1014.0	0	52	+2	SSW	1	S	r	*	1	60	46	o.c	op	op	2.1
Benson (Oxon.) ...	1014.5	60	WSW	4	bc	1015.4	-1	53	-2	S	4	-	o	*	0.2	65	45	bc	bc	b.o	*
St. Farnborough ...	1014.9	63	W	4	c	1015.9	-1	56	-1	SSW	3	SW	o	*	-	68	46	o.c	bc	bc	0.6
London (Kew Obs.) ...	1015.1	62	WNW	3	c	1016.4	-1	57	-2	SSW	2	W	o	*	-	67	48	o.c	c.c	c.c	6.8
NORTHERN EUROPE.																					
Spitsbergen ...	1023.8	39	SW	1	b	1021.0	-1	45	+9	S	1	*	b	*	*	45	34				
Vardö ...	1023.8	45	NE	1	b	1020.8	-2	46	+5	NE	2	-	b	2	*	45	36				
Bodö ...	1012.6	68	E	2	b	1010.3	+3	66	-2	E	1	-	b	0	-	70	63				
Christiansund ...	1009.7	63	SW	1	c	1009.0	0	57	-11	-	0	-	c	2	-	75	55				
Skudesnaes ...	1008.7	59	-	0	m	1008.7	+1	61	+7	-	0	-	b	2	-	61	54				
Færder (X'ania Fjord) ...	1010.9	59	S	1	c	1009.3	0	57	+3	-	0	-	c	0	-	63	54				
The Scaw (Skagen) ...	1009.9	57	SSW	3	r	1008.4	-2	52	-5	WSW	4	-	r	4	4	64	50				
Blaavands Huk ...	1012.6	64	WSW	3	c	1009.7	+3	54	-3	W	4	-	o	4	9	66	52				
Copenhagen ...	1013.6	57	W	3	m	1010.0	-1	54	0	WNW	4	-	m	1	3	59	50				
Bornholm ...	1013.6	57	W	3	m	1010.0	-1	54	0	WNW	4	-	m	1	3	59	50				
FRANCE, &c.																					
The Helder ...	1011.7	55	WSW	4	bc	1015.0	0	55	0	WSW	3	-	b	2	2	59	54				
C. Gris Nez ...	1015.9	57	SW	7	bc	1017.9	+1	57	+1	WSW	3	*	bc	2	1	59	52				
La Hève ...	1014.9	59	WNW	3	bc	1018.9	-1	55	0	SSW	2	*	m	2	-	64	52				
Brest (St. Mathieu) ...	1021.3	64	WNW	3	b	1018.4	-1	57	-1	S	4	*	o	3	-	64	54				
Rochefort (Ile d'Aix) ...	1021.2	62	W	3	o	1017.6	-2	57	-4	NE	3	*	c	2	-	68	54				
Biarritz ...	1019.1	66	NE	4	b	1015.0	-2	66	+3	-	0	*	bc	1	-	72	59				
Paris ...	1018.6	66	WNW	3	b	1019.8	0	66	+11	NNE	1	W	b	*	-	72	48				
Belfort ...	1020.7	66	WSW	6	bc	1021.5	*	57	+5	W	2	*	b	*	-	70	52				
Lyons ...	1019.7	74	-	0	b	1019.8	*	64	+2	-	0	*	b	*	-	77	55				
Nice ...	1019.7	66	-	0	b	1019.7	0	66	+2	-	0	*	m	0	-	77	57				
Perpignan ...	1018.6	79	E	1	b	1019.0	+3	73	+5	E	2	SW	b	*	-	82	52				
Sanguinaire ...	*	78	NW	4	m	*	*	70	0	WSW	2	*	m	3	-	81	63				
SOUTHERN STATIONS.																					
Corunna ...	1018.3	66	NNW	5	b	1017.6	+2	61	+2	NNW	1	-	m	3	-	68	55				
Madrid ...	1013.1	88	-	0	b	1016.6	0	72	+2	SE	1	S	b	*	-	90	61				
Lisbon ...	1015.1	81	NW	4	b	1017.0	0	63	-5	NW	2	-	b	2	-	84	59				
Azores ...	1016.0	*	SW	6	o	1018.3	+1	65	-2	WSW	5	*	c	3	1	73	64				
Madeira ...	1020.0	66	N	2	o	1021.2	0	64	0	N	3	-	bc	3	-	68	64				
Gibraltar ...	1018.3	70	E	4	bc	1017.3	*	70	0	E	2	*	bc	2	-	73	69				
Malta ...	*	*	*	*	*	1019.0	+3	81	+2	NE	2	-	b	0	-	82	75				
Limassol ...	*	*	*	*	*	1006.4	0	82	-8	W	1	-	b	1	-	95	66				
Alexandria ...	1011.4	79	NNW	3	b	1010.0	0	79	0	WNW	3	-	b	2	-	88	75				
Cairo (Helwan) ...	1009.7	91	N	3	b	1001.1	+2	77	-5	NW	1	-	b	*	-	100	70				
YESTERDAY'S REPORTS																					
... 20th July, 20 h. a.m.T.																					
Venice ...	10181																				

UPPER AIR.  
South Farnborough.  
Pilot Balloon Ascent at 6.15 a.m.  
900 metres SW 9 metres per sec.  
600 " SW 9 " "  
300 " SSW 5 " "  
Surface. S 5 " "

RAINFALL.  
Equivalents of Millimetres  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





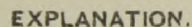
### FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

	<div>0 <sup>a</sup> <sub>b</sub> } Variable breezes; changeable, some rain and mist; cool.</div> <div>1</div> <div>2 <sup>a</sup> <sub>b</sub> } Freshening Westerly to Southerly breezes, veering Westerly again; changeable, some rain and mist; cool.</div> <div>3</div> <div>4 <sup>a</sup> <sub>b</sub> } Southerly and South-Westerly winds, squally, fresh to strong, veering Westerly or North-Westerly and moderating; some rain, fairer later; cool.</div> <div>5</div> <div>6 <sup>a</sup> <sub>b</sub> } Same as Nos. 0 and 1.</div> <div>7 <sup>a</sup> <sub>b</sub> } Same as Nos. 3 to 5.</div> <div>8 <sup>a</sup> <sub>b</sub> }</div> <div>9 <sup>a</sup> <sub>b</sub> } Same as Nos. 0 and 1.</div> <div>10 <sup>a</sup> <sub>b</sub> } Moderate North-Westerly breeze, backing again; changeable, some rain; cool.</div> <div>11 { Moderate to fresh Southerly to Westerly breezes; sea rather rough; changeable, some rain, mist or fog; cool.</div>
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### FURTHER OUTLOOK.



## GENERAL INFERENCE.

TEMPERATURE, WEATHER AND  
SEA DISTURBANCE.







**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  $\frac{1}{4}$  clouded.   
  sky  $\frac{1}{2}$  clouded.  
 sky  $\frac{3}{4}$  clouded.   
 overcast sky.   
 rain falling.

\*snow. ▲ hail. ≡ fog. ≡<sup>o</sup> mist. T, thunder.

SEA DISTURBANCE.—Rough  High 

SEA DISTURBANCE.—Rough  High .

Normal Temperature of the Sea



# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...29 <sup>th</sup> ... AT 9 P.M. LOCAL TIME					...30 <sup>th</sup> ... AT 7 A.M. LOCAL TIME.										Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Direc.	Force 0-12.							
Archangel ...	1008.8	66	NNE	1	bc	1008.8	+1	61	0	E	3	*	0	*	*	57.		
Gorki ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	-		
Veliki Luki ...	-	-	-	-	-	1004.8	*	63	-3	ENE	6	*	0	*	*	59		
Hangö ...	1007.8	64	ESE	2	0	1008.3	0	66	+3	?	2	*	bc	*	*	54		
Riga ...	1005.5	61	-	0	r	1005.3	0	61	-9	-	0	*	bc	*	24	59		
Petrograd ...	1007.8	68	NE	2	b	1007.7	0	64	+1	ENE	2	-	b	*	2	57.		
Moscow ...	1005.7	70	SE	2	0	1006.3	0	63	-7	NNE	2	*	b	*	1	54.		
Kiev ...	1007.4	68	SSW	3	0	1008.0	0	63	0	WNW	3	*	c	*	3	64		
Kharkov ...	1010.3	66	-	0	b	1008.6	0	68	+5	S	2	*	0	*	*	61		
Kishinev ...	1009.9	70	SE	2	0	1013.3	?	66	+2	NW	3	*	b	*	*	64		
Elisabetgrad ...	1009.0	68	W	1	bc	1008.4	0	68	+2	SW	2	*	c	*	1	64		
Nicolaiev ...	1010.4	72	SW	4	c	1009.7	*	68	+4	WSW	3	*	b	*	4	59.		
Odessa ...	1010.4	72	SSW	4	0	1010.9	+1	70	0	WNW	3	*	b	*	*	64.		
Tarkhankout ...	1012.3	72	S	2	bc	1012.2	?	72	0	SW	4	*	bc	*	*	70		
Soukhom ...	1012.4	72	SSW	4	0	1010.9	+1	70	-	WNW	3	*	b	*	*	64		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Min.	Max.	°F.	°F.						Min.	Max.	°F.	°F.			
Scotland.									England.								
(Oban ...	10.0	-	2	56	50	o.c	bc	50	(Lowestoft ...	5.0	3	1	65	53	o.bc	bc.p	30
(Banff ...	0.0	1	1	55	50	od	od.o	0.0	(Felixstowe ...								
(Carnoustie ...	0.0	*	*	58	55	o	r.o.c	0.0	(Walton-on-Naze ...								
(St. Andrews ...	0.0	-	-	59	53	b	c	1.2	(Southend-on-Sea ...	3.5	2	-	67	50	o.c.	c.bc.b	3.4
Eng. N.E.									England, S.E.								
(Harrogate ...	12.6	3	2	58	46	o.c	cp.bc	2.3	(Margate ...	4.5	2	-	66	53	bc.c	c.bc	3.8
(Skegness ...	12.9	5	2	61	51	op.bc	up.o	3.5	(Ramsgate ...	6.6	2	-	65	50	bc	bc	6.6
Eng. N.W.									(Hastings ...	6.2	*	*	64	54	or.bc	bc	5.6
(Morecambe ...	10.8	2	1	59	48	-	-	6.0	(Eastbourne ...	6.3	7	0.2	63	54	o.bc	b.beg	7.5
(Blackpool ...									(Seaford ...		*	*	61	53	r.o	c	7.5
(Southport ...	6.5	4	-	60	48	or.c	bc.b	5.2	(Brighton ...								
Midlands.									(Worthing ...	8.2	8	-	65	54	o.c.	bc	7.2
(Buxton ...									(Littlehampton ...								
(Leamington Spa ...	4.3	6	1	63	51	bc.p	bop	5.4	(Bognor ...								
(Malvern ...	3.5	6	0.3	61	50	b.c.c	c.b.c	2.0	(Bournemouth ...	3.4	*	*	66	53	bc	bc	9.5
(Ross-on-Wye ...	2.3	5	1	65	51	c.b.c.p	bc	5.3	England, S.W.								
Wales.									(Weymouth ...	0.5	*	*	67	53	b	b.bc	11.5
(Rhyl ...	3.4	5	3	62	50	r.o.c	c.bc	4.1	(Torquay ...								
(Colwyn Bay ...	3.4	*	*	60	49	cp	p.bc	4.5	(Paignton ...								
(Llandudno ...	5.2	*	*	59	50	r	r.c.b	3.8	(Penzance ...	0.5	1	-	62	54	bc	bc	11.0
(Aberystwyth ...	5.5	*	*	58	52	r.o.c	c.b.o	3.5	(Newquay ...	1.7	1	-	60	53	b	b	9.8
(Tenby ...	2.4	1	-	62	48	-	-	10.0	(Bude ...	0.5	2	-	62	53	b	b	9.9
									(Ilfracombe ...	2.0	*	*	60	50	bc.b	c.d.c	9.0
									(Weston-s-Mare ...	1.5	4	-	62	43	bc.b	b.bc	11.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1543	Joules.	260 Milliwatts.	83 Milliwatts.		
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY											Hours of Observation G.M.T.					
%	%	Hr.	F.	F.	F.	mm. §				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obs.) ...	49	64	7.6	69	46	34	-	o.	o. c	c.bc.o						
City (Runhill Row) ...	*	*	6.9	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	42	63	7.5	68	48	45	-	or.bc	bc.o.	bc.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	51	62	7.3	70	50	46	-	c	c	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	69	7.2	65	46	40	Trace	o.	c	bc.c.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	*	7.5	68	50	42	1/4	o	o.c	c	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	8.0	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	6.8	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																

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

1 <sup>st</sup> July 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.35	11.37	8.17
Greenwich ...	5.48	12.3	8.18
Wick ...	5.12	12.16	8.19
Valencia ...	4.26	12.44	8.2

## NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 60° at many stations. Rain fell generally, mostly in light showers. A thunderstorm occurred at Yarmouth. Sunshine was very variable, none in places, 11½ hours at Scilly.

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; i. 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-baze, or smoke.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 184

Sunday  
2nd July

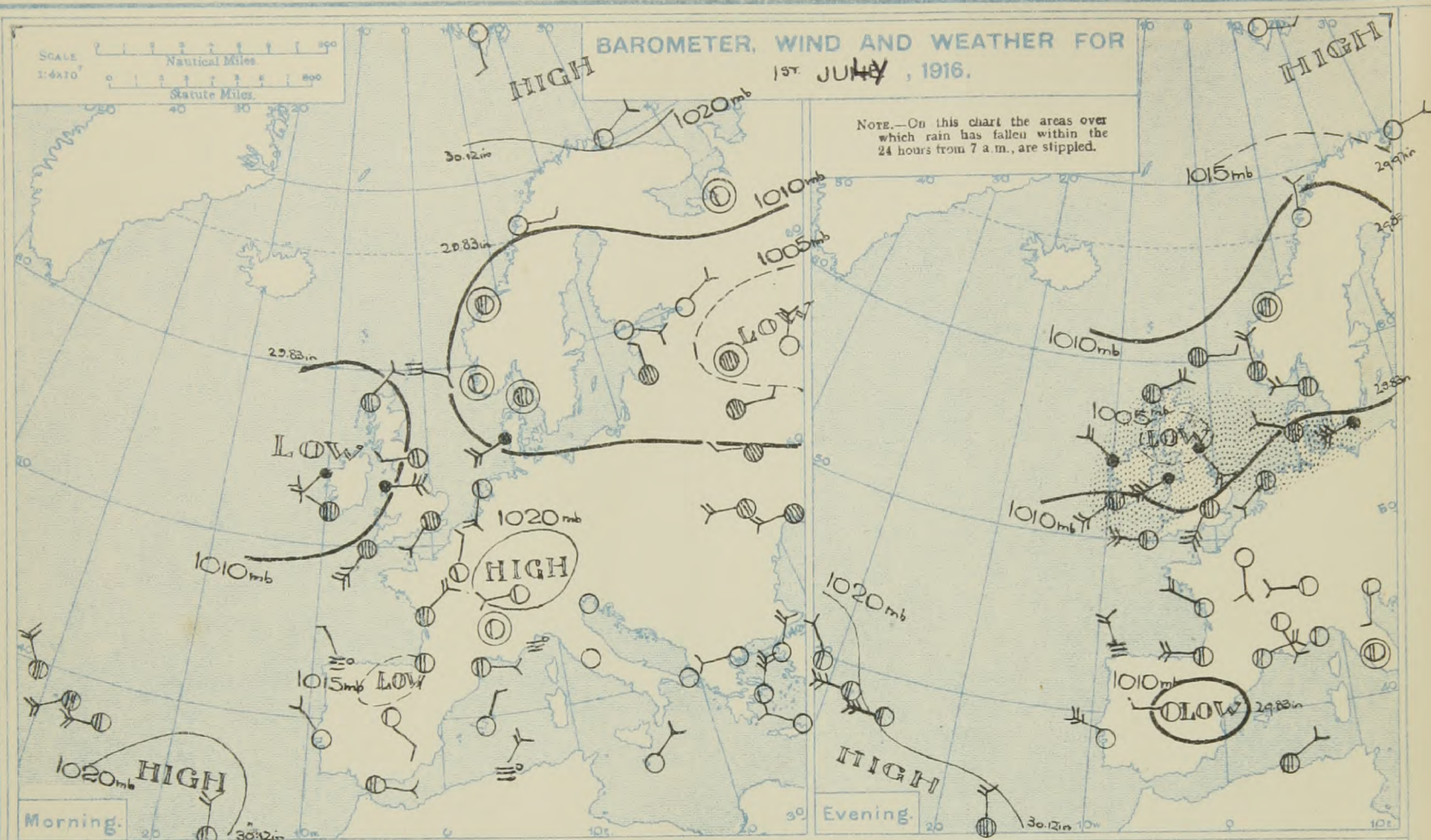
STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS							Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		Weather.					
			Dir.	Force		Milli- bars at M.S.L.	Change in 3 hours.	Dry °F.	Change in 24 hours	Dir.	Force					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																							
Lerwick ...	1011.9	52	E	1	om	1009.0	+1	49	+2	NNE	2	-	m	1	-	52	46	fom	om	om	*		
Deerness (Orkney) ...	1009.7	50	E	3	o	1008.4	*	48	-2	NNE	3	-	m	2	-	53	48	b	o	m.f.m	0.0		
Stornoway ...	1007.5	57	ENE	3	cp	1009.0	+1	51	-3	NE	4	-	o	4	0.2	62	49	c	c	bc.bz	6.0		
Castlebay (Barraisd.) ...	1007.3	55	NE	2	o	1007.4	0	53	0	N	3	-	o	3	0.3	56	51	op	o	c	0.1		
Glasgow ...	1004.4	50	NE	3	omr	1005.4	+2	51	-3	N	1	-	o	*	12	59	48	cop	omr	rmond	0.5		
Eskdalemuir ...	1002.5	50	E	2	o	1004.3	+2	49	-2	N	2	-	od	*	19	55	47	o.c.	o.c.	o.c.	0.3		
Malin Head ...	1005.3	54	E	3	bc	1006.2	0	53	+2	N	1	NE	cv	1	1	56	50	omp	c	cv	0.7		
Blacksod Point ...	1006.6	53	NW	3	omd	1007.2	0	53	+1	N	2	N	cg	2	7	57	51	cmd	omd	omd	*		
Valencia ...	190.5	57	SW	4	o	1007.8	-1	55	+3	SW	2	-	o	3	0.5	60	49	o.c.bz	bc.cop	o.p.	4.8		
NORTH EUROPE.																							
Roche's Point ...	1011.3	60	W	3	c	1009.7	*	55	+3	W	2	-	o	2	2	62	51	ro	ro.c.	o.c.	*		
Birr Castle ...	1007.1	57	SW	1	c	1006.9	*	54	+4	SW	1	-	r	*	15	58	49	or.c.	cp	oor	1.3		
Dunaghadie ...	1003.9	50	NW	4	omr	1005.4	+1	52	0	NNW	3	NW	cg	2	18	53	49	omr	omr	omr	*		
Liverpool (Bidston) ...	1006.3	55	SW	4	c	1006.3	0	53	+2	WSW	3	SW	o	3	4	57	51	o.c.	or	or	0.4		
Holyhead ...	1006.4	52	WSW	5	opm	1007.1	+1	52	+1	W	4	W	opm	3	22	58	50	o.c.bz	o.c.c.	o.c.c.	1.2		
Pembroke (St. Ann's) ...	1012.0	56	WSW	5	bc	1009.6	+1	55	-1	W	3	W	c	4	3	57	53	bc	bc	o.c.p.	7.6		
Scilly (St. Mary's) ...	1016.2	59	W	4	bc	1012.4	-1	55	-1	W	3	W	c	4	7	60	53	op.c.	o.c.	bc.c.	9.1		
Falmouth ...	1013.7	59	W	4	b	1011.8	0	53	-2	SW	3	SW	bc	*	3	61	50	rg.bz	bc.b.	bc.b.	6.8		
Jersey (St. Aubin) ...	1015.0	60	W	4	og	1013.5	*	57	0	W	3	W	bc	3	-	67	52	bc	o.c.	o.c.	8.3		
Portland Bill ...	1011.7	56	WSW	6	bc	1011.9	0	55	0	W	5	SW	bc	4	-	58	52	bc.c	o.c.	bc.b.	*		
Dungeness ...	1013.5	59	SW	3	c	1011.6	0	56	0	SW	3	SW	b	3	-	62	50	bc	bc	bc	*		
Dover ...	1011.2	57	WSW	2	bc	1011.2	0	57	0	WSW	2	SW	bc	4	1	65	54	bc	bc	bc	?		
FRANCE, &c.																							
Wick ...	1009.2	50	ESE	3	m	1008.2	*	48	-2	NE	3	-	f	4	?	53	47	o.bz	o.bz	omr	*		
Nairn ...	1006.1	57	ENE	2	bcg	1007.4	*	52	-4	ENE	1	-	o	2	0.1	61	50	bc.c.	bc.c.	bc.c.	5.4		
Aberdeen ...	1008.1	53	ESE	2	o	1006.1	0	51	-7	NE	4	-	o	3	3	62	50	b	bc.c.	or	10.3		
Leith ...	1005.2	52	E	2	p	1004.2	+1	51	-3	NNE	2	-	o	3	10	60	50	o	r	rod	*		
Tynemouth ...	1004.4	52	SSE	3	omggr	1002.7	0	53	-2	WNW	2	-	om	3	1	59	51	omp	omr	omp	*		
Spurn Head ...	1007.9	57	S	5	bcg	1005.4	-1	57	+3	SSW	5	SW	c	4	2	59	50	oor	or.bz	bcg	0.1		
Yarmouth ...	1010.8	60	SW	6	bc	1008.5	0	55	0	W	3	-	b	3	-	61	48	bc	bc	o.c.	6.2		
Clacton-on-Sea ...	1011.9	62	SSW	6	c	1010.3	0	55	-1	SSW	3	-	b	2	-	63	50	bc	bc	o.c.	9.8		
Nottingham ...	1007.6	58	WSW	3	bc	1006.7	*	55	+3	SW	2	W	c	4	4	61	50	o	bc	o.c.	3.6		
Benson (Oxon.) ...	1009.8	61	SSW	4	bc	1009.9	0	53	0	SW	4	-	bc	*	2	62	44	bc	bc	bc	*		
St. Farnborough ...	1010.5	61	SW	5	b	1010.2	0	56	0	SW	4	-	bc	*	-	64	45	o	o.b	bc.b.	4.4		
London (Kew Obs.) ...	1010.8	63	SSW	5	bcv	1010.5	-1	56	-1	SW	4	W	bc	*	0.1	64	47	o.c.	o.c.	o.c.	5.6		
SOUTHERN STATIONS.																							
Spitsbergen ...	1016.8	52	SE	1	b	1014.7	-2	45	0	-	0	*	b	*	*	52	41	*	*	*	*		
Vardö ...	1017.9	45	E	2	o	1014.1	-1	50	+4	SE	1	-	b	2	*	46	39	*	*	*	*		
Bodö ...	1009.7	70	N	2	b	1009.0	0	68	+2	E	2	-	b	2	-	70	61	*	*	*	*		
Christiansund ...	1009.1	55	-	0	c	1007.0	-1	57	0	-	0	-	f	2	1	61	54	*	*	*	*		
Skudenes ...	1008.3	54	NNW	4	o	1006.4	-1	54	-7	-	0	-	o	1	-	61	54	*	*	*	*		
Færder (Xtama Fjord) ...	1008.2	59	W	3	o	1009.1	0	54	-3	WSW	2	-	o	2	-	64	52	*	*	*	*		
The Scaw (Stagen) ...	1012.2	54	WNW	3	o	1008.7	-3	55	+3	SSE	1	-	o	1	1	57	52	*	*	*	*		
Blaavands Huk ...	1010.0	59	W	4	c	1011.1	0	55	+1	W	3	-	c	*	Trace	59	52	*	*	*	*		
Copenhagen ...	1010.1	54	WSW	5	r	1011.5	+1	54	0	W	3	-	c	1	2	59	52	*	*	*	*		
Bornholm ...	1010.8	59	SSW	2	c	1008.7	0	57	+2	SW	1	-	c	1	-	61	54	*	*	*	*		
FRANCE, &c.																							
The Helder ...	1014.0	59	SSW	2	c	1008.7	0	57	+2	SW	1	-	c	1	-	61	54	*	*	*	*		
C. Gris Nez ...	1012.6	61	SSW	3	c	1011.5	0	55	-2	W	5	*	b	3	-	66	54	*	*	*	*		
La Hève ...	1014.7	61	W	3	bc	1014.7	-1	57	0	W	1	*	c	2	-	63	55	*	*	*	*		
Brest (St. Mathieu) ...	1015.1	64	NW	3	b	1014.3	0	59	+2	N	3	*	c	*	-	79	57	*	*	*	*		
Roche fort (Ile d'Aix) ...	1014.6	68	W	4	bc	1013.7	0	64	+8	NE	2	*	c	2	-	73	63	*	*	*	*		
Biarritz ...	1012.9	73	SSW	2	b	1013.1	0	63	-3	N	2	-	b	*	-	79	52	*	*	*	*		
Paris ...	1016.0	72	W	2	b	1014.3	*	61	+4	-	0	*	c	*	-	79	55	*	*	*	*		
Belfort ...	1014.1	79	-	0	b	1012.8	*	66	+2	-	0	*	c	*	-	84	61	*	*	*	*		
Lyons ...	1017.1	64	-	0	b	1014.6	0	65	-1	-	0	*	c	0	-	75	57	*	*	*	*		
Nice ...	1013.2	70	NE	3	bc	1013.9	+1	68	+5	E	2	NE	o	*	Trace	79	59	*	*	*	*		
Perpignan ...	1015.1	-1	59	-2	NNW	3	o	59	-2	NNW	3	-	o	5	-	79	59	*	*	*	*		
Sanguinaire ...	1011.5	+1	68	-4	o	1011.5	0	68	-4	o	*	b	*	-	90	61	*	*	*	*			
SOUTHERN STATIONS.																							
Corunna ...	1017.9	64	NNW	5	o	1015.1	-1	59	-2	NNW	3	-	f	2	?	66	57	*	*	*	*		
Madrid ...	1009.9	81	W	1	b	1011.5	+1	68	-4	-	0	-	b	*	-	90	61	*	*	*	*		
Lisbon ...	1015.8	70	WNW	5	b	1015.3	0	61	-2	NNW	3	-	o	5	-	79	59	*	*	*	*		
Azores ...	1020.3	*	W	5	bc	1022.4	+2	64	-1	N	2	*	c	2	1	75	63	*	*	*	*		
Madeira ...	1026.6	68	N	3	o	1026.8	0	64	0	N	3	-	b	3	-	70	64	*	*	*	*		
Gibraltar ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Malta ...	*	*	*	*	*	1015.4	+2	81	0	-	0	-	b	0	-	86	73	*	*	*	*		
Limassol ...	*	*	*	*	*	1003.4	+1	84	+2	WSW	1	-	b	1	-	93	70	*	*	*	*		
Alexandria ...	1007.9	80	WNW	5	b	1006.7	0	81	+2	NW	5	-	b	3	-	88	75	*	*	*	*		
Cairo (Helwan) ...	1007.1	88	N	3	b	1007.0	+1	79	+2	NW	3	-	b	*	-	94	72	*	*	*	*		
YESTERDAY'S REPORTS																							
... 20 h. G.M.T.																							
Venice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Pesaro ...	*	*	*	*	*	*</																	

## RAINFALL

Equivalents of Millimetres  
in Inches.

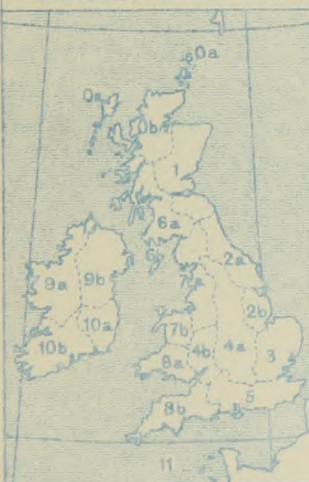
mm.	Inches	mm.	Inches
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.11
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
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





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.   
North Cone. 

Signals hoisted this morning.

South Cone.   
North Cone. 

No Warnings Issued.

Western Channel and Bay 11

0 {  
a  
b

Light to moderate breezes between East and North; fair to dull, some showers and mist; cool.

2 {  
a  
b

Moderate breezes between West and South; fair to dull, some showers and mist; cool.

4 {  
a  
b

6 {  
a  
b

Same as Nos. 0 and 1.

7 {  
a  
b

Same as Nos. 2 to 5.

9 {  
a  
b

Light Northerly breeze, backing South-Westerly; fair to dull, some showers and mist; cool.

10 {  
a  
b

Same as Nos. 2 to 5.

Moderate Westerly breeze; sea moderate; fair, local mist or fog; cool.

FURTHER OUTLOOK.

Millibars  
Inches

1050 31

1040

1030

1020

30

1010

1000

990

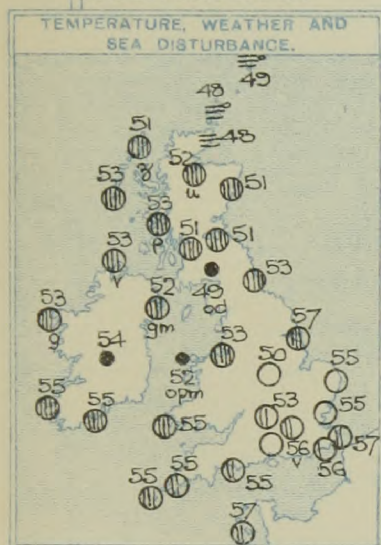
980

970



GENERAL INFERENCE.

The barometer shows a downward tendency along our south-western coasts, so that the unstable conditions are 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 ½ clouded. ○ sky ¾ clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 K, thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches.  
 31

30

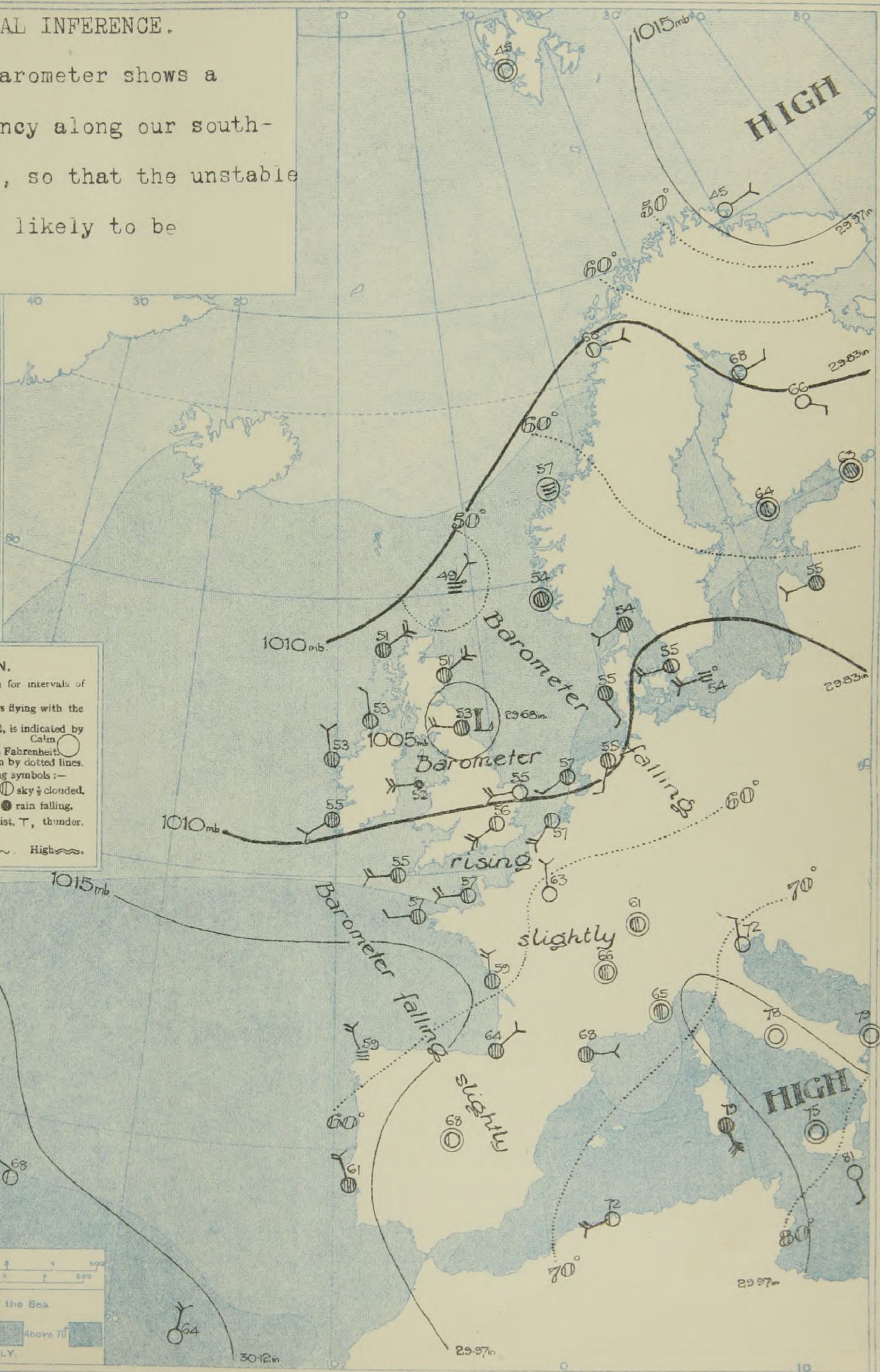
29

SCALE 1:250,000  
 Nautical Miles  
 Statute Miles

Normal Temperature of the Sea

Below 50 50-60 60-70 Above 70

Scale of Tints for JULY.





# REPORTS FROM RUSSIA FOR YESTERDAY.

Archangel ...	1011.4	66	N	2	c	1012.8	0	66	+5	-	0	*	b	*	1	*	59
Gorki ...						1002.0	*	61	-	ESE	1	*	0	*	20	*	50
Veliki Luki ...						1004.6	*	63	0	-	0	*	0	*	8	*	55
Hangö ...	1008.2	66	-	0	c	1008.3	+1	68	+2	ESE	2	*	b	*	-	*	57
Riga ...	1007.5	61	NNW	1	0	1007.7	0	59	-2	N	1	*	0	*	2	*	59
Petrograd ...	1008.2	64	ENE	3	b	1008.2	0	66	+2	ENE	2	-	b	*	-	75	57
Moscow ...	1005.1	66	ENE	1	bc	1004.4	-1	64	+1	NE	2	*	b	*	-	*	55
Kiev ...	1018.6	60	W	4	0	1008.4	+1	52	-11	WNW	4	*	0	*	1	*	52
Kharkov ...	1007.8	64	-	0	c	1007.1	0	59	-9	W	2	*	bc	*	3	*	55
Kishinev ...	1017.0	64	NW	3	b	1016.8	+1	61	-5	WNW	3	*	c	*	-	*	55
Elisabetgrad ...	1011.9	61	-	0	b	1010.3	0	60	-8	WNW	4	*	0	*	-	*	57
Nicolaiev ...	1012.3	68	?NW	4	b	1020.6	*	61	-7	WNW	3	*	0	*	10	*	55
Odessa ...	1015.1	68	N	3	b	1015.7	+1	61	-9	WNW	3	*	0	*	-	*	57
Tarkhankout ...	1013.9	72	W	2	b	1015.3	*	70	-2	NW	4	*	b	*	-	*	?
Soukhom ...	1011.0	70	-	0	b	1011.8	*	73	+3	NE	1	*	b	*	-	*	?

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 h.

STATIONS.	Sun- shine for 30 <sup>th</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for 30 <sup>th</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
{ Oban ...	11.3	1	-	58	50	op	op	0.0	{ Lowestoft ...	6.8	-	-	63	48	bc	bc	7.2
{ Banff ...	0.0	-	-	63	45	bc	bc	10.3	{ Felixstowe ...	6.1	-	-	63	48	b.bc	bc	8.5
{ Carnoustie ...	0.0	*	*	58	50	bc.c	c.or	6.2	{ Walton-on-Naze ...	5.1	-	-	68	49	bc.c	bc	7.6
{ St. Andrews ...									{ Southend-on-Sea ...								
Eng. N.E.									{ Margate ...	4.7	-	-	65	48	b	bc.c	8.2
{ Harrogate ...	4.9	0.4	3	56	44	bc.or	r. 0	1.0	{ Ramsgate ...	7.1	3	-	61	44	b.bc	bc.o	9.6
{ Skegness ...	3.5	-	2	63	44	bc.o	op	2.8	{ Hastings ...	5.6	-	-	62	47	b	bc	7.8
Eng. N.W.									{ Eastbourne ...	7.5	-	-	63	48	b.bc	bc.o	8.8
{ Morecambe ...									{ Seaford ...	8.3	-	-	62	46	bc	bc.c	6.6
{ Blackpool ...									{ Brighton ...								
{ Southport ...	7.7	1	2	57	49	or. 0	r.c.o	0.2	{ Worthing ...	8.1	-	-	63	45	bc	c	6.5
Midlands.									{ Littlehampton ...								
{ Buxton ...									{ Bognor ...	9.8	*	*	61	47	bc	bc	5.5
{ Leamington Spa ...	8.2	-	2	64	50	or	o.c	2.1	{ Bournemouth ...	9.5	-	-	61	51	0	c	2.5
{ Malvern ...									England, S.W.								
{ Ross-on-Wye ...	6.0	-	4	64	51	bc.op	op.bc	2.8	{ Weymouth ...								
Wales.									{ Torquay ...		1	-	64	54	0	o.b	3.3
{ Rhyl ...									{ Paignton ...	13.3	*	*	62	51	ad.bc	bc	4.9
{ Colwyn Bay ...									{ Penzance ...	12.2	4	2	62	55	or.bc	bc	6.3
{ Llandudno ...	3.8	*	*	60	50	r	c	1.8	{ Newquay ...								
{ Aberystwyth ...	3.5	*	*	57	54	r.o.c	bc.o	3.5	{ Bude ...	11.9	1	4	62	54	0	bc	4.3
{ Tenby ...	12.4	2	5	62	51	-	-	4.9	{ Ilfracombe ...								
									{ Weston-s-Mare ...								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1740 Joules.	Average Rate. 29.3 Milliwatts.	Max. Rate. 85 Milliwatts.
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.					
				Max.	Min.										
24 HOURS ENDED 9 h. To-Day															
%	%	Hr.	F.	F.	F.	mm.									
Greenwich (Royal Obs.) ...	69	68	8.5	68	46	34	-	bc	bc	b. bc					
City (Bunhill Row) ...	*	*	4.8	*	*	*	*	*	*	*					
Westminster (St. James's Pk.) ...	65	68	4.8	66	48	43	0.2	bc o	c	bc.p					
Camden Sq. (Brit. Rainfall)	52	68	5.0	71	47	47	Trace	bc	c.o.c	*					
Hampstead (Reservoir) ...	*	71	5.2	63	46	31	-	bc	bc	c					
S. Kensington (Museum Grounds)	*	72	5.6	66	48	42	0.4	bc	c. o	dp.bc					
Richmond Park ...	*	*	6.1	*	*	*	*	*	*	*					
Kew. (See front page.)	*	*	5.6	*	*	*	*	*	*	*					
(Greenwich and Camden Square air temperatures are in Glaisher screens.)															

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

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

2 <sup>nd</sup> & 3 <sup>rd</sup> July, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.36	11.57	8.17
Greenwich ...	3.37	11.57	8.17
Wick ...	3.49	12.4	8.18
Valencia ...	3.12	12.16	9.19
	3.14	12.16	9.18
	4.37	12.45	9.2
	4.28	12.45	9.2

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

STATION, Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
	Eskdalemuir 26th Noon	Eskdalemuir 29th 13h	S. Farnboro 30th 18h10m									
Heights in Kilometres	3	2	1	5	0	0	0	0	0	0	0	0
	(7) 0	+2	(12) +4	+1	+1	(6) +3	+1	+3	0	+4	+1	
	0	0	+2	+6	0	+4	+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; i, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r, rain; s, snow; t, thunder; u, ugly, threatening sky; v, visibility, unusual transparency; w, dew; x, hoar frost; z, dust haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 185. Monday, 3rd July.

STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS.						Sun- shine for Yester- day.  Hours.
	Barom. Milli- bars at M.S.L.	TEMP.  °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																						
Lerwick ...	1008.9	50	-	0	om	1010.0	0	49	0	NE	1	SW	om	1	7	51	45	omr	omd	om	*	
Deerness (Orkney) ...	1008.1	51	N	2	o	1009.1	*	47	-1	NE	2	-	m	0	52	46	m.o	om.o	o.f.m	0.0		
Stornoway ...	1009.9	52	NNE	4	odp	1009.1	0	51	0	N	2	-	odm	2	53	48	oem	odp	odpm	0.0		
Castlebay (Barra Isd.) ...	1009.3	55	NNE	4	o	1009.0	0	52	-1	N	2	-	op	3	58	48	o.c	c.bc.o	o.c.op	4.3		
Glasgow ...	1007.9	54	-	0	oud	1008.0	-1	52	+1	E	1	-	cm	*	14	58	49	op.oz	oz up	omr.op	0.3	
Esksdalemuir ...	1007.3	52	N	3	o	1008.2	0	49	0	-	0	-	o	*	1	54	44	or.d.	od	o.c.o	0.1	
Malin Head ...	1008.2	56	N	1	b	1008.5	-2	52	-1	NNE	2	N	cm	2	-	60	50	bc	b	cm	10.6	
Blacksod Point ...	1009.2	56	NNE	4	cgm	1010.0	0	53	0	N	4	NE	cm	3	0.1	60	51	cv	cm	cm	*	
Valencia ...	1008.4	56	WNW	3	an	1009.5	+1	55	0	NNW	3	N	o	2	1	60	53	o.c.op	bc.c	o.c.o	5.2	
Roche's Point ...	1008.4	58	NW	3	o	1009.0	*	53	-2	NW	2	-	o	2	6	62	53	op.c	op	c.o	*	
Birr Castle ...	1006.8	59	N	1	c	1008.3	*	52	-2	N	1	-	o	*	6	63	48	or.op	op	c.op	3.7	
Donaghadee ...	1007.9	53	NNE	2	cm	1007.9	0	54	+2	SE	1	-	om	0	Trace	57	51	cmf	cmf	cm.om	*	
Liverpool (Bidston) ...	1007.7	53	W	2	o	1007.4	0	55	+2	SE	1	-	om	1	1	59	52	b	c.op	op	3.8	
Holyhead ...	1007.6	57	SW	3	og	1007.1	0	54	+2	SE	2	-	ofg	1	5	60	52	c.om	op.om	o.orf	0.5	
Pembroke (St. Ann's) ...	1009.1	57	WSW	3	c	1006.9	-1	54	-1	WSW	3	-	or	2	2	59	54	c	c	c.op	1.4	
Scilly (St. Mary's) ...	1011.3	59	WSW	2	c	1009.0	-1	55	0	W	1	W	c	3	1	62	53	c.bc	bc	a.op	13.4	
Falmouth ...	1010.8	59	SW	4	b	1008.4	-1	55	0	SW	1	-	o	*	1	63	51	bc.bq	bcq.b	b.br.op	12.3	
Jersey (St. Aubin) ...	1012.1	62	WNW	3	c	1009.1	*	59	+2	E	2	-	c	1	-	63	49	bc.c	c	c	9.8	
Portland Bill ...	1011.4	57	WSW	5	bc	1009.5	-1	55	0	SW	3	SW	o	3	-	58	54	bc	bc	bc.c	*	
Dungeness ...	1010.9	58	SW	5	bc	1009.1	-1	60	+4	SW	1	SW	c	1	-	61	53	bc	bc	bc.o.c	*	
Dover ...	...	...	...	...	...	1008.8	-1	57	0	-	0	-	b	1	-	61	50	b	b	b.bc	14.6	
Wick ...	1008.3	50	NNW	2	o	1009.0	+1	48	0	N	1	-	o	1	0.1	51	48	f.r.m	omg	omdg	*	
Nairn ...	1008.6	50	-	0	o	1008.2	*	52	0	-	0	-	cgm	1	1	53	49	omd	omd	omh	0.0	
Aberdeen ...	1007.5	52	NNE	1	bc	1007.9	0	51	0	NNW	3	-	od	2	5	55	49	or.o	o.c.bc	bc.cod	0.1	
Leith ...	1007.5	53	E	1	o	1008.0	0	50	-1	ENE	1	-	r	2	9	53	49	r	r	od.or	*	
Tynemouth ...	1006.0	53	NNW	2	omg	1007.8	+1	51	-2	N	1	-	o	3	Trace	56	50	cmf	cmf	omd	*	
Spurn Head ...	1007.6	60	NW	3	o	1009.4	0	54	-3	ENE	3	-	om	3	-	64	51	cp	c.o	o.c	2.5	
Yarmouth ...	1008.7	59	NNE	1	bc	1009.0	0	57	+2	NW	2	-	cm	2	4	68	54	b	bcp	bcp.om	11.0	
Clacton-on-Sea ...	1008.9	63	SSW	4	c	1008.9	0	57	+2	SSW	1	SW	o	1	-	66	53	b.bc.c	c	c.o	9.8	
Nottingham ...	1007.9	55	WSW	2	r	1007.9	*	56	+1	SSE	1	S	ogm	*	12	62	52	cp	ckr	r.o	0.3	
Benson (Oxon.) ...	1009.2	62	SW	1	o	1008.6	0	55	+2	SW	1	-	bc	*	2	68	50	bc	bc	o	*	
Sth Farnborough ...	1005.2	61	WSW	4	o	1008.5	0	56	0	S	2	-	o	*	-	71	50	bc.c	bc.o	o.c.o	8.4	
London (Kew Obsy.) ...	1009.3	63	SW	3	o	1008.9	0	56	0	-	0	-	om	*	Trace	67	53	bcv.o.bcv	bcv.o	o.omd.om	7.3	
NORTHERN EUROPE.																						
Spitsbergen ...	1011.9	46	-	0	b	1010.6	0	43	-2	N	3	*	b	*	*	46	39					
Vardö ...	1012.2	55	SE	1	b	1009.9	-2	59	+9	SE	1	-	b	2	*	59	39					
Bodö ...	1006.7	64	NE	2	b	1007.5	0	54	-14	W	2	-	o	2	1	70	52					
Christiansund ...	1007.7	54	WSW	3	f	1008.3	0	55	-2	-	0	-	f	3	-	68	52					
Skudesnaes ...	1007.3	57	NNW	1	b	1007.7	0	55	+1	-	0	-	f	1	-	57	54					
Færder (Xtaniafjord) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
The Scaw (Skagen) ...	1008.6	61	SE	2	bc	1008.7	0	57	+3	WSW	2	W	c	2	-	63	54					
Blaavands Huk ...	1009.0	59	WSW	1	b	1009.5	0	57	+2	SSW	2	-	c	2	-	64	52					
Copenhagen ...	1009.9	61	WSW	3	o	1009.3	0	59	+4	NNW	2	-	b	*	Trace	64	55					
Bornholm ...	1011.3	61	SW	2	m	1009.6	-1	59	+5	-	0	W	m	0	-	61	54					
FRANCE, &c.																						
The Helder ...	1009.3	59	SW	5	b	1009.1	0	55	-2	S	2	W	b	1	-	61	48					
C. Gris Nez ...	1011.1	58	SW	5	bc	1009.3	-1	57	+2	WSW	1	*	c	1	-	61	54					
La Hève ...	1011.0	58	NNW	3	c	1009.1	*	57	+2	ENE	1	*	m	1	-	66	50					
Brest (St. Mathieu) ...	1012.0	59	SW	1	o	1009.5	0	55	-2	N	1	*	r	2	4	63	55					
Rochefort (Ue d'Aix) ...	1011.5	62	NW	5	o	1007.5	-1	61	+2	NW	3	*	o	*	-	68	59					
Biarritz ...	1010.0	64	NE	3	o	1009.0	0	63	-1	N	1	*	o	2	13	70	61					
Paris ...	1010.4	68	SW	1	b	1008.6	-1	57	-8	NE	2	-	tl	*	-	75	54					
Belfort ...	1013.3	64	-	0	r	1009.1	*	61	0	ENE	3	*	*	2	75	56						
Lyons ...	1012.6	73	NNW	1	c	1009.2	*	63	-3	-	0	*	r	*	6	86	60					
Nice ...	1018.1	73	-	0	b	1008.7	0	73	+8	-	0	*	b	0	-	82	63					
Perpignan ...	1010.0	70	E	1	bc	1008.4	0	68	0	ENE	1	-	o	*	-	79	61					
Sanguinaire ...	*	76	N	3	m	*	*	75	*	E	2	*	b	3	-	79	63					
SOUTHERN STATIONS.																						
Corunna ...	1013.4	63	NW	2	c	1016.8	0	59	0	S	1	-	o	1	?	64	55					
Madrid ...	1005.6	82	WSW	2	b	1008.7	+2	65	-3	SW	1	SW	bc	*	-	104	59					
Lisbon ...	1013.9	64	WNW	4	c	1010.7	-1	61	0	SW	2	-	r	2	Trace	70	61					
Azores ...	1023.5	*	N	4	bo	1025.2	+1	65	+1	-	0	*	c	1	-	75	64					
Madeira ...	1018.7	68	NW	1	bc	1018.0	0	64	0	NW	1	-	b	1	-	70	64					
Gibraltar ...	1013.2	67	W	4	b	1012.8	*	67	*	W	5	*	b	3	-	79	64					
Malta ...	*	*	*	*	*	1013.3	+2	84	+3	-	0	-	b	0	-	90	77					
Limassol ...	*	*	*	*	*	1004.6	+2	91	+7	NNW	1	-	b	1	-	93	72					
Alexandria ...	1007.5	79	N	2	c	1008.7	+1	77	+4	NW	3	-	b	2	-	86	75					
Cairo (Helwan) ...	1004.8	88	NW	1	b	1007.5	+2	79	0	NNW	2	-	c	*	-	95	75					
YESTERDAY'S REPORTS																						
1 St. 20 h. G.M.T.																						
Venice ...	1013.5	75	S	1	b	1013.9	*	72	*	N	1	-	b	3	-	81	66					
Pesaro ...	1014.6	73	NE	1	b	1014.2	*	77	*	SW	1	-	b	2	-	82	64					
Rome ...	1017.6	72	-	0	b	1015.7	*	78	*	-	0	W	b	*	-	86	59					
Viesti ...	1015.3	75	-	0	b	1014.4	*	77	*	SW	1	-	b	1	-	82	72					
Brindisi ...	1016.4	79	NW	1	b	1013.9	*	79	*	-	0	-	b	1	-	75	66					
Cagliari ...	1017.3	79	SE	4	b	1013.6	*	79	*	SSE	6	S	o	4	-	84	59					
Palermo ...	1018.0	79	-	0	b	1015.6	*	75	*	-	0	-	b	1	-	84	63					
Tripoli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Algiers ...	1010.7	72	NE	2	c	1013.0	+2	72	0	WSW	3	-	b	4	-	79	70					

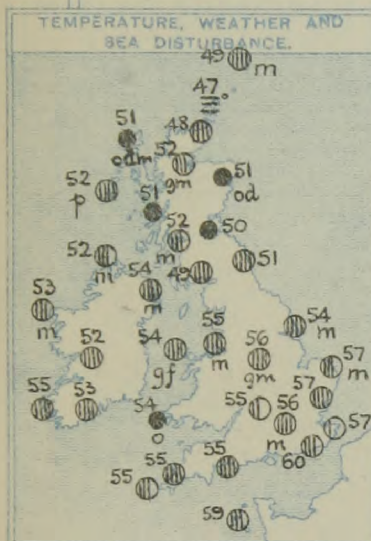






## GENERAL INFERENCE.

There are no indications  
of any great change in the  
conditions.



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:—

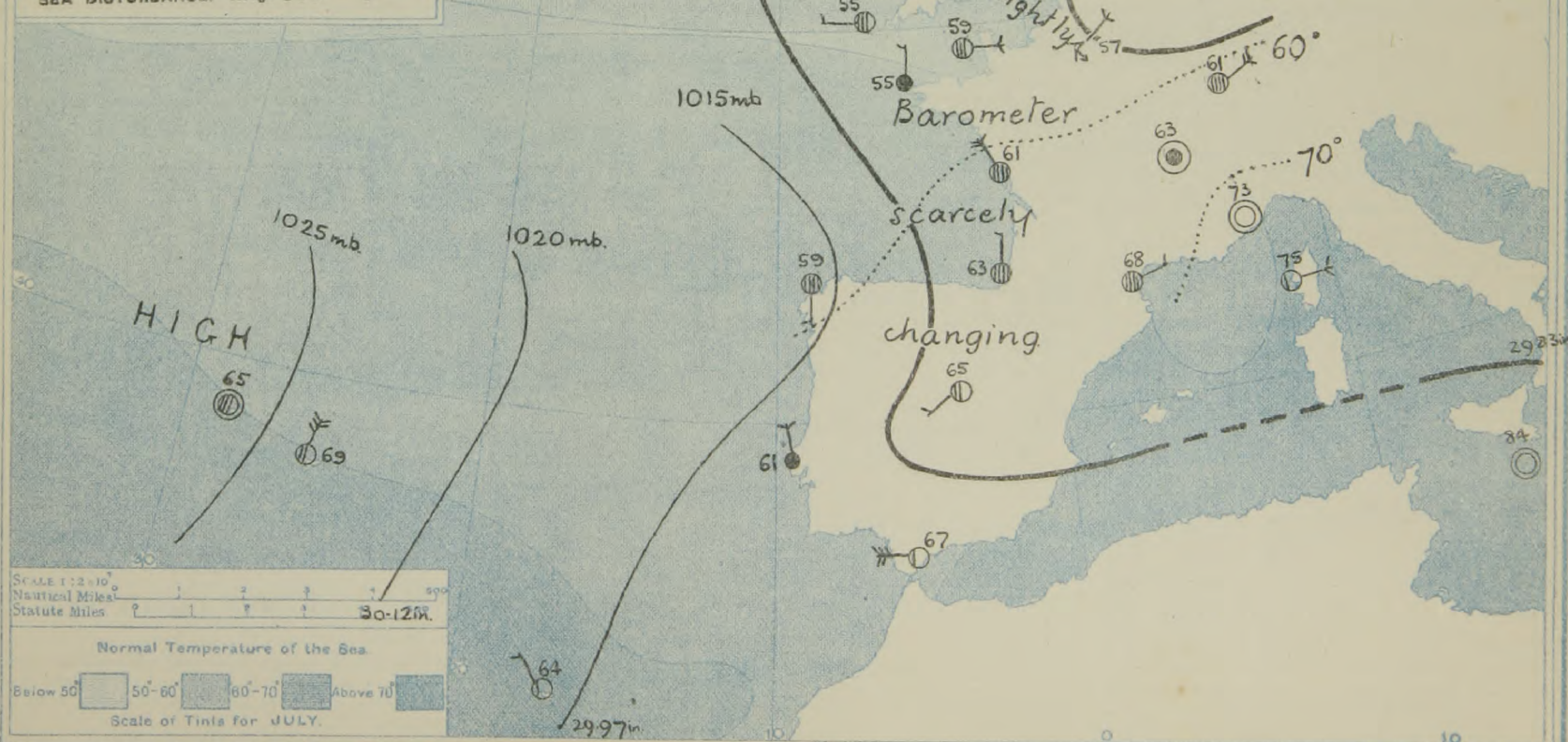
WEATHER.—Shown by the following symbols:—  
 clear sky.     sky  $\frac{1}{2}$  clouded.     sky  $\frac{1}{2}$  clouded.

☉ clear sky. ☉ sky & clouded. ☉ sky & clouded.  
☉ sky & clouded. ☉ overcast sky. ☉ rain falling.

☁ sky & clouded. ☁ overcast sky. ☁ rain falling.  
❄ snow. ⚡ hail. ≡ fog. ≡<sup>o</sup> mist. ⚡ thunder.

\*snow. ▲ hail. = fog. = mist. |, thunder.  
 T<sub>h</sub> thunderstorm.

SEA DISTURBANCE.—Rough . High .





REPORTS  FROM RUSSIA  FOR  YESTERDAY.	STATIONS.	1 <sup>st</sup> .....AT 9 P.M. LOCAL TIME					2 <sup>nd</sup> .....AT 7 A.M. LOCAL TIME.										Rain- fall. •Milli- metres.		TEMP. Max. Min	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	° F.	° F.	Direc.	Force 0-12.								
Archangel ...	1011.4	72	SE	2	bc	1012.4	+1	64	-	NE	3	*	bc	*	-	*	59.			
Gorki ...	1003.0	63	-	0	0	1003.1	?	59	-2	NE	2	*	0	*	17	*	53			
Veliki Luki ...	-	-	-	-	-	1005.2	*	61	-2	SSW	2	*	7	*	3	*	59			
Hangö ...	1007.9	64	-	0	c	1007.0	-1	64	-4	?	2	*	bc	*	-	*	?			
Riga ...	1009.9	57	NW	2	r	1009.3	0	55	-4	W	2	*	0	*	1	*	54.			
Petrograd ...	1006.3	68	ENE	7	b	1006.4	0	63	-3	?	3	-	0	*	-	75	59.			
Moscow ...	1004.6	64	N	1	0	1004.4	0	64	-2	ENE	2	*	b	*	8	*	57			
Kiev ...	1008.4	57	NNW	4	0	1008.0	0	55	+3	NW	4	*	0	*	4	*	52			
Kharkov ...	1006.1	57	SW	2	0	1004.4	0	57	-2	W	2	*	0	*	-	*	57			
Kishinev ...	1016.2	64	NW	2	0	1014.4	0	63	+2	NW	3	*	b	*	-	*	57			
Elisabetgrad ...	1010.3	57	NNW	4	r	1008.4	0	57	-3	NW	3	*	0	*	-	*	55			
Nicolaiev ...	1012.2	66	NW	6	0	1010.4	*	61	0	WSW	3	*	b	*	-	*	55			
Odessa ...	1014.0	64	NNW	2	0	1012.3	0	66	+5	NNW	3	*	b	*	2	*	59			
Tarkhankout ...	1014.6	66	W	2	bc	1012.4	?	68	-2	W	4	*	bc	*	5	*	66.			
Soukhom ...	1010.9	72	-	0	0	1009.0	+1	70	-3	-	0	*	0	*	7	*	?			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
Oban ...	00	0.3	-	64	50	0	bc.0	37	Lowestoft ...	77	-	-	68	49	bc	bc	41
Banff ...	12.1	-	3	54	50	0	or	00	Felixstowe ...	8.9	-	-	67	49	b.b.c.b	b.b.c.b	11.5
Carnoustie ...	62	*	*	53	50	r	r.d.c.	00	Walton-on-Naze ...	58	-	-	71	51	bc.b	bc.b	9.5
St. Andrews ...									Southend-on-Sea ...								
Eng. N.E.									England, S.E.								
Harrogate ...	14	4	-	60	47	0	bc.c	13	Margate ...	8.2	*	*	68	50	b	bc	12.8
Skegness ...	-	3	2	63	48	o.c.p	op	15	Ramsgate ...	10.0	-	-	67	47	b.b.c	bc.c	12.1
Eng. N.W.									Hastings ...	7.8	*	*	62	50	b	b	12.0
Morecambe ...									Eastbourne ...	8.6	-	-	61	52	o.b.c.b	b	10.6
Blackpool ...									Seaford ...								
Southport ...	02	6	-	60	51	bc	bc	9.5	Brighton ...								
Midlands.									Worthing ...	7.4	-	-	63	47	bc	bc	12.6
Buxton ...		*	*	58	50	bc	bc	40	Littlehampton ...	7.1	-	-	62	47	-	-	12.8
Leamington Spa ...	40	-	1	65	49	c.b.c	c.p.b.c	36	Bognor ...								
Malvern ...									Bournemouth ...	2.5	*	*	64	48	b	b	13.0
Ross-on-Wye ...									England, S.W.								
Wales.									Weymouth ...								
Rhyl ...	15	1	-	60	52	c.b.c.c	c.b.c	20	Torquay ...		*	*	63	52	bc	o.c	60
Colwyn Bay ...	-	*	*	60	53	bc	c	16	Paignton ...								
Llandudno ...		*	*	60	53	c	c	3.1	Penzance ...								
Aberystwyth ...		*	*	60	54	c.o.c	c.o	2.5	Newquay ...								
Tenby ...									Bude ...	6.0	0.3	-	62	54	c.b.c	bc.b	5.8
									Ilfracombe ...								
									Weston-s-Mare ...								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1547	Joules.	26 1/2	Milliwatts.	85	Milliwatts
				Max.	Min.											
24 HOURS ENDED 9 h. To-Day										Hours of Observation G.M.T.						
%	%	Hr.	F.	° F.	° F.	mm. §				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obs.) ...	60	78	9.8	72	51	41	-	c. bc.	ood	o.						
City (Bunhill Row) ...	*	*	8.2	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	56	77	7.5	68	53	50	1	b. b. c.	b. c. u.	b. c. u.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	-	78	6.9	71	52	50	0.3	*	*	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	80	6.0	66	50	38	Trace	c.	o.	c. o. p. b. c.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	78	7.7	68	54	41	0.3	b. c. c.	c. b. c. o.	o. c.	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	8.5	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	7.3	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
Egypt ... 6 18 Limassol ... 6 —																

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

3 <sup>rd</sup> & 4 <sup>th</sup> July 1916.	Sunrise.		Noon.		Sunset.	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.36	11.57	8.16	8.16	8.16	8.16
Greenwich ...	3.50	12.44	8.17	8.17	8.17	8.17
Wick ...	3.44	12.16	8.17	8.17	8.17	8.17
Valencia ...	4.28	12.45	8.2	8.2	8.2	8.2

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 60° in many places, but touched 71° at South Farnborough. Showers fell in most districts, and a thunderstorm occurred at Nottingham. Sunshine varied greatly, none in places, 14½ hours at Dover.

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

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 186.

Tuesday,  
4th July

STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS.						Sun shine for Yester- day.  Hours.
	Barom. Milli- bars at M.S.L.	TEMP.  °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 24 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours.						Direc.	Force 0-12.	Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																						
Lerwick ...	1009.8	50	NE	2	omd	1008.9	0	47	-2	NNE	2	-	om	2	12	52	45	om	omd	omr	*	
Deerness (Orkney) ...	1009.1	50	N	2	opd	1007.8	*	48	+1	N	3	-	ope	3	8	53	47	m	m.d	op.o	0.3	
Stornoway ...	1010.1	53	ENE	4	o	1010.4	0	48	-3	NE	4	-	o	3	7	58	47	o.bc	bc.o	o	3.9	
Castlebay (Barra Isd.) ...	1010.2	59	NE	2	cg	1010.2	0	52	0	NE	3	-	d	3	0.1	61	50	c.bc	bc.cut	bc.ctr	6.0	
Glasgow ...	1007.9	59	NE	2	cg	1009.0	-1	51	-1	-	0	-	m	*	-	65	47	c.bc	bc.cut	c.bc.m	4.9	
Eskdalemuir ...	1008.1	53	ENE	4	or	1009.3	0	48	-1	N	1	-	om	*	6	59	47	o.od	od.or	or.c.o	0.4	
Malin Head ...	1008.3	55	NNE	2	bc	?	0	54	+2	NW	2	W	bcm	2	-	58	51	c	bc	cm	6.5	
Blacksod Point ...	1009.4	54	NNW	4	cg	1010.8	+2	55	+2	N	1	N	bc	1	0.2	55	48	cg	cg	bc	*	
Valencia ...	1009.1	56	NW	4	c	1010.1	+1	56	+1	NNE	2	N	c	2	2	60	52	op.c	c.bcp	o.pac	4.3	
ROCHE'S POINT.																						
Birr Castle ...	1007.4	56	N	1	o	1009.7	*	49	-3	N	1	-	f	*	13	60	47	cp.or	cp.op	cf	0.9	
Donaghadee ...	1007.7	55	NNE	2	bz	1009.3	+1	52	-2	NNW	2	-	bm	1	0.1	58	49	bz	bz	bmw	*	
Liverpool (Bidston) ...	1006.3	58	-	0	o	1008.2	+1	55	0	E	1	-	bm	1	6	61	52	o.c	cp.lt	o	0.6	
Holyhead ...	1006.8	54	NE	4	oem	1008.1	+1	53	-1	-	0	-	bm	0	4	59	50	o.c.p.o	op.o	o.c.bcm	0.4	
Pembroke (St. Ann's) ...	1007.0	54	W	2	bc	1008.8	+1	52	-2	NNE	1	-	c	0	0.2	59	52	op.cpm	f.br	f.o	3.0	
Scilly (St. Mary's) ...	1008.4	61	W	1	bc	1008.6	0	54	-1	-	0	W	c	2	-	61	51	bc.c	c.bc	bc.c	4.4	
Falmouth ...	1007.5	60	ENE	1	bc	1008.2	+2	55	0	WSW	1	SW	c	*	-	65	50	o.b.c.c	cg.b.c.c	bc.c	3.9	
Jersey (St. Aubin) ...	1007.7	60	NE	3	o	1008.7	*	57	-2	NW	2	-	o	2	-	61	54	c.ogp	ogp.o	o	0.2	
Portland Bill ...	1007.9	56	WSW	3	bc	1008.1	0	56	+1	WSW	2	SW	c	2	-	60	53	bc	bc	bc.c	*	
Dungeness ...	1007.7	59	SW	1	o	1007.7	0	60	0	E	2	-	o	3	-	62	54	c.b.c.c	c.o	ac.o	*	
Dover ...	1008.4	6	59	+2	N	1	-	o	1	-	o	1	-	63	52							
Wick ...	1009.4	49	-	0	o	1008.2	0	48	0	N	3	-	m	2	6	51	47	g.om	omg	r.omp	*	
Nairn ...	1009.0	53	NE	2	og	1008.4	*	51	-1	-	0	-	op	1	8	59	49	c.bc	cg.o	u.c.r	0.4	
Aberdeen ...	1008.6	56	NNW	3	c	1008.2	0	52	+1	-	0	-	r	2	4	59	49	od.r	o.c	c.or	1.3	
Leith ...	1007.9	58	E	1	bc	1008.6	0	51	+1	NW	1	NW	c	1	1	60	46	o	o.c.bc	bc.cmc	*	
Tynemouth ...	1008.8	52	ESE	1	orad	1009.5	+1	50	-1	ENE	1	-	om	2	-	55	48	bcm	cm	om	*	
Spurn Head ...	1009.6	53	ESE	4	cm	1009.1	-1	52	-2	E	2	-	f	3	4	58	50	cm	cm	or.f	4.3	
Yarmouth ...	1009.2	58	S	1	c	1009.0	+2	57	0	SSE	1	-	bc	1	3	62	56	cp	cp	c.o.b.c	2.0	
Clacton-on-Sea ...	1007.7	60	-	0	c	1008.4	+2	56	-1	W	1	W	o	1	1	64	56	op.c	cp	c.op	1.8	
Nottingham ...	1006.2	56	E	2	tr	1008.8	*	52	-4	NE	2	NE	om	*	13	64	52	o.cr	o.ctr	rt.o	1.5	
Benson (Oxon.) ...	1006.3	65	SSW	3	bc	1008.3	+1	55	0	S	1	-	b	*	-	68	42	bc	bc	bc.b	*	
St. Farnborough ...	1007.2	57	S	2	r	1008.0	+1	53	-3	-	0	-	bm	*	1	68	40	o	or	r.c.bf	1.8	
London (Kew Obs.) ...	1007.0	62	SSW	3	or	1008.6	+2	50	-6	SSW	1	-	f	*	1	68	46	om.o	o.op.c.or	or.o	0.3	
NORTHERN EUROPE.																						
Spitsbergen ...	1009.5	39	NNW	3	b	1011.0	0	41	-2	N	1	*	b	*	*	46	36	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 6h.20m. metres Wind at 2400 SkyW 8 mps. " 2100 SkyW 6 " " 1800 3 byW 4 "				
Vardö ...	1010.4	61	S	1	bc	1011.0	0	59	0	W	1	-	C	2	*	64	48	{ from 1500m } " to Surface } Calm.				
Bodö ...	1008.4	55	W	4	C	1007.0	0	54	0	W	2	-	C	2	-	55	50					
Christiansund ...	1007.3	52	NW	2	f	1006.3	0	52	-3	-	0	-	r	3	4	57	52					
Skudesnaes ...	1007.0	59	SSE	2	o	1007.0	0	54	-1	S	5	-	o	3	Trace	63	54					
Færder (Xiania Fjord) ...	1006.6	61	NW	1	b	1007.9	+1	57	0	W	2	-	o	2	-	64	50					
The Scaw (Skagen) ...	1009.7	61	W	1	C	1010.7	0	55	-2	NE	1	-	f	?	-	?	?					
Blaavands Huk ...	1010.0	63	NE	2	bc	1009.1	0	57	-2	NE	3	-	r	*	1	63	57	GALES. Duration and Extreme Force in British Islands.				
Copenhagen ...	1010.4	61	SW	3	m	1009.2	0	55	-4	NE	1	-	r	0	1	61	54					
Bornholm ...	1008.0	61	NW	2	C	1008.2	0	59	+4	N	1	S	b	1	-	63	59					
The Helder ...	1008.3	60	WSW	1	bc	1008.3	0	57	0	NE	2	*	c	1	2	64	55					
C. Gris Nez ...	?	55	NNE	4	r	?	*	56	-1	NNE	2	*	o	2	1	66	52					
Brest (St. Mathieu) ...	1009.6	62	W	3	b	1009.2	+1	56	+1	NW	3	*	C	1	-	63	54					
Rochefort (Ile d'Alx) ...	1008.4	63	WNW	4	C	1009.2	+2	61	0	W	1	*	o	*	-	66	59	GALES. Duration and Extreme Force in British Islands.				
Biarritz ...	1009.0	64	N	2	bc	1008.8	0	62	-1	WSW	3	*	o	1	1	73	59					
Paris ...	1007.4	66	SE	1	C	1007.8	0	59	+2	-	0	-	o	*	3	68	55					
Belfort ...	1009.3	64	W	2	r	1011.9	*	58	-3	-	0	-	T	*	10	74	58					
Lyons ...	1008.6	64	NW	1	clr	1010.1	*	62	-1	-	0	-	bc	*	2	84	59					
Nice ...	1007.3	72	-	0	bc	1008.3	0	68	0	NE	1	-	o	*	-	79	63					
Perpignan ...	*	82	W	2	m	*	*	73	-2	E	3	*	m	1	-	84	68	GALES. Duration and Extreme Force in British Islands.				
Sanguinaire ...	1011.3	64	W	3	C	1015.3	+3	61	+2	NW	2	-	o	1	1	66	57					
Corunna ...	1011.3	64	W	3	C	1015.3	+3	61	+2	NW	2	-	o	1	1	66	57					
Madrid ...	1011.3	64	W	3	C	1015.3	+3	61	+2	NW	2	-	o	1	1	66	57					
Lisbon ...	1011.3	64	W	3	C	1015.3	+3	61	+2	NW	2	-	o	1	1	66	57					
Azores ...	1025.2	*	NE	1	b	1019.9	+1	64	0	NE	3	-	bc	2	-	72	64					
Madeira ...	1017.6	72	N	3	C	1015.2	*	68	+1	W	4	*	b	3	Trace	76	65	GALES. Duration and Extreme Force in British Islands.				
Gibraltar ...	1013.9	68	W	5	b	1015.2	*	68	+1	W	4	*	b	3	Trace	76	65					
Malta ...	*	*	*	*	*	1015.3	+3	84	0	SSE	1	-	b	0	-	88	79					
Limassol ...	*	*	*	*	*	1007.4	+2	90	-1	SW	2	-	b	2	-	95	66					
Alexandria ...	1009.6	77	NNW	4	b	1011.0	+2	79	+2	NNW	3	-	b	2	-	84	75					
Cairo (Helwan) ...	1007.4	91	N	3	b	1009.7	+2	75	+4	N	2	-	b	*	-	99	72					
SOUTHERN STATIONS.																						
Venice ...	1011.7	75	?	0	b	1010.9	*	75	+3	NE	1	SW	C	3	-	88	68	GALES. Duration and Extreme Force in British Islands.				
Pesaro ...	1013.2	73	NE	1	b	1010.4	*	75	-3	N	1	-	b	*	-	84	63					
Rome ...	1012.9	75	SE	1	b	1014.0	*	75	-2	SE	1	-	b	3	-	86	75	GALES. Duration and Extreme Force in British Islands.				
Viesti ...	1013.3	75	SE	1	clr	1013.4	*	77	-2	WSW	1	-	f	2	-	81	68					
Brindisi ...	1010.2	82	SE	4	b	1007.1	*	77	-2	SSW	2	E	S	0	-	81	61					
Cagliari ...	1015.0	77	-	0	b	1011.0	*	81	+6	E	4	-	b	0	-	88	64					
Palermo ...	1011.7	75	?	0	b	1010.9	*	75	+3	NE	1	SW	C	3	-	88	68					
Tripoli ...	1013.2	73	NE	1	b	1010.4	*	75	-3	N	1	-	b	*	-	84	63					
Algiers ...	1012.9	75	SE	1	b	1014.0	*	75	-2	SE	1	-	b	3	-	86	75					





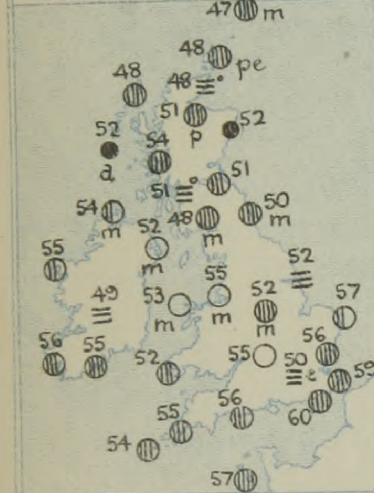


# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 4<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

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

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



## EXPLANATION.

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

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

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

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

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky & clouded. ○ sky & clouded.

○ sky & clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.

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⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.



REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

Archangel ...	...	1010.3	72	E	2	b	1013.0	0	66	+2	ESE	1	*	b	*	-	*	55
Gorki ...	...	1006.3	54	NE	4	0	?	?	57	+2	NNE	6	*	0	*	18	*	54
Veliki Luki ...	...	-	-	-	-	-	*	-	-	-	-	*	-	*	-	*	-	-
Hangö ...	...	1006.3	39	WSW	4	0	1007.9	0	55	-9	WSW	3	*	0	*	1	*	52
Riga ...	...	1010.3	57	-	0	b	1011.3	0	57	+2	-	0	*	0	*	-	*	50
Petrograd ...	...	1007.1	64	NNW	1	0	1008.4	+1	64	+1	NNW	2	*	0	*	4	70	61
Moscow ...	...	1003.5	68	NNE	2	b	1004.4	+1	63	-1	N	2	*	b	*	11	*	55
Kiev ...	...	1011.5	59	NNW	3	b	1012.4	0	57	+2	NNW	3	*	b	*	-	*	52
Kharkov ...	...	1005.2	64	W	3	0	1007.5	+2	57	0	NW	3	*	b	*	2	*	54
Kishinev ...	...	1015.3	66	W	2	b	1016.4	0	61	-2	NNW	1	*	b	*	-	*	55
Elisabetgrad ...	...	1011.7	61	NW	2	b	1013.2	0	61	+4	NW	2	*	b	*	-	*	54
Nicolaiev ...	...	1012.0	68	NNW	2	b	1014.0	*	63	+2	NNW	2	*	b	*	-	*	55
Odessa ...	...	1013.7	70	N	2	b	1015.1	+1	64	-2	N	3	*	b	*	-	*	59
Tarkhankout ...	...	1013.6	70	NW	4	b	1014.4	?	73	+5	NW	1	*	b	*	-	*	63
Soukhom ...	...	1013.3	66	-	0	0	1013.9	0	68	-2	SSE	2	*	c	*	-	*	59

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 2nd	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for 2nd	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.					
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.						
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.								
Scotland.	{	Oban ... ..	3.7	7	8	68	50	r.o.c	bc.	4.3	England, E.	{	Lowestoft ... ..	*	1	0.1	62	54	c.op	o.c.o	1.9	
		Banff ... ..	0.0	5	1	?	49	or	or.o	0.0			Felixstowe ... ..	9.3	-	0.1	64	53	omp.bc	bc.o	1.3	
		Carnoustie ... ..	*	*	*	57	51	o.cp	cr	2.7			Walton-on-Naze ... ..	*	-	-	-	-	-	-	-	-
		St. Andrews ... ..	*	1	-	57	48	bc	c	1.5			Southend-on-Sea ... ..	10.7	-	1	65	53	o	op.r	0.0	
Eng. N.E.	{	Harrogate ... ..	1.3	-	3	62	47	o.bc	otr.t	1.4	England, S.E.	{	Margate ... ..	14.8	-	-	65	47	bc	c.	5.2	
		Skegness ... ..	1.5	0.4	-	58	49	o.bc	bcng	4.2			Ramsgate ... ..	14.5	-	-	63	48	bc	bc.o	8.3	
													Hastings ... ..	*	-	-	63	52	b.bc	c.o	4.5	
Eng. N.W.	{	Morecambe ... ..	*	-	-	62	45			3.0	England, S.W.	{	Eastbourne ... ..	12.2	-	-	62	55	o.bc	c.	2.4	
		Blackpool ... ..											Seaford ... ..	*	*	*	64	55	bc	bc	2.6	
		Southport ... ..	9.9	-	-	64	51	o.c.o	ct.o	0.6			Brighton ... ..									
													Worthing ... ..	14.5	1	1	63	53	bc	cr.o	1.2	
Midlands.	{	Buxton ... ..	4.0	*	*	58	46	bc.r	bc	0.5	England, S.W.	{	Littlehampton ... ..	15.3	1	8	61	52	o	bc.o	2.0	
		Leamington Spa ... ..		0.4	-	67	49	bc.c	c.bc	4.2			Bognor ... ..	*	1	1	62	54	bc	bc.or	2.5	
		Malvern ... ..											Bournemouth ... ..	*	-	-	65	53	o.c	c.bc	4.0	
		Ross-on-Wye ... ..	*	-	-	68	49	c.bc	bcg	1.3												
Wales.	{	Rhyl ... ..	2.0	2	5	60	51	r.c.o	op.c	1.0	England, S.W.	{	Weymouth ... ..	*	-	-	63	55	c.bc.b	bc	8.0	
		Colwyn Bay ... ..	*	*	*	62	53	c	op	1.2			Torquay ... ..	8.1	-	-	65	52	c.o.bc.b	bc	9.7	
		Llandudno ... ..	*	*	*	60	53	p	p	0.6			Paignton ... ..									
		Aberystwyth ... ..	*	-	-	60	53	r.o.c	c.o.c	1.5			Penzance ... ..	*	1	-	64	54	bc	bc.c	1.5	
		Tenby ... ..	*	-	-	63	60			5.9			Newquay ... ..	6.0	-	1	60	50	p	o	0.5	
													Bude ... ..	6.2	-	-	62	53	c	c	1.2	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1088 Joules.	Average Rate. 18.3 Milliwatts.	Max. Rate. 53. Milliwatts	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.					
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY																
%	%	Hr.	F.	° F.	° F.	mm.	§				Morning.	Evening.		Morning.	Evening	
Greenwich (Royal Obs.) ...	86	68	0.3	67	46	36	1	0.	op.0	op.0.						
City (Bunhill Row) ...	*	*	0.2	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	63	75	0.4	65	49	46	1	0.	0.0r	om.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	56	66	0.3	68	49	46	1	29.0	0.0d.	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	82	0.1	64	46	32	1	0.	op.0	oc.0.0m	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	73	0.4	66	49	40	1	6.0	0.0p	op.0.	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	*	*	*	*	*	*	0.0p	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	0.3.	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
Egypt ... 6 18 Limassol... 6 —																

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

4.25 July 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.38	12.27	8.16
Greenwich ...	3.51	12.4	8.17
Wick ...	3.15	12.16	9.16
Valencia ...	4.29	12.45	9.1

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° in most parts of the Kingdom, below 55° at some northern stations. Rain fell except in some southern localities, and thunderstorms occurred locally in Northern England. Little bright sunshine was recorded except on the South-West coast of England.

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

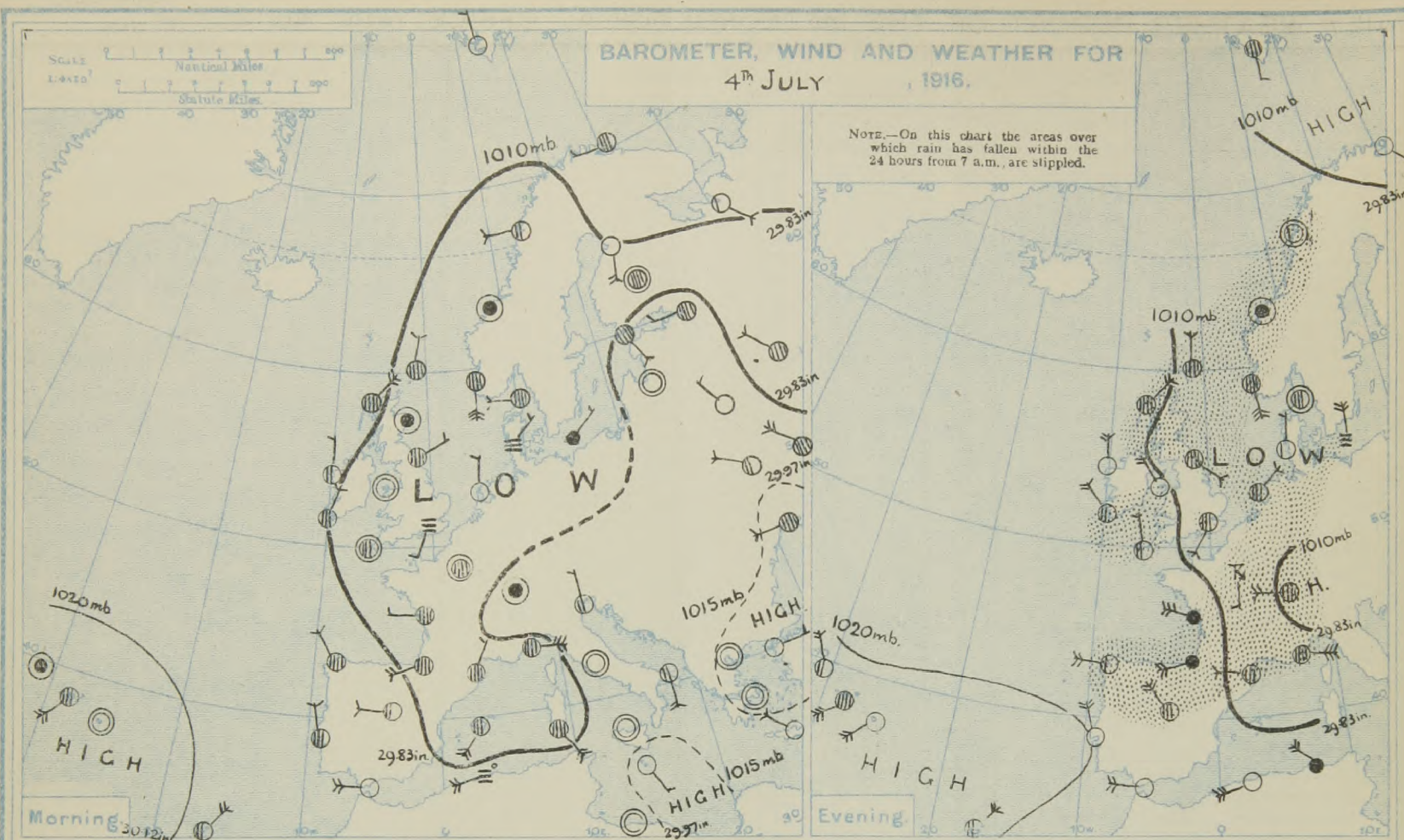
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 187. { Wednesday, 5<sup>th</sup> July.

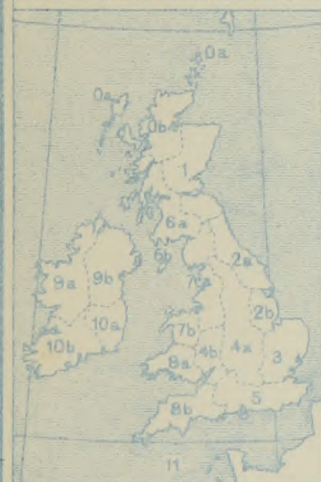
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	1008.6	48	NNE	1	om	1010.7	+1	48	+1	NW	1	-	0	1	3	49	46	omp	omp	0	*	
Deerness (Orkney) ...	1009.5	48	NNW	3	0	1011.5	*	48	0	WNW	2	-	0	0	-	52	44	oe	0	0	0.4	
Stornoway ...	1011.0	50	NE	3	oe	1012.9	+2	49	+1	N	2	-	0	2	0.1	53	44	0	oe	0.c	0.1	
Castlebay (Barra Isd.) ...	1011.2	53	NW	3	0	1013.3	+2	50	-2	N	2	N	bc	2	1	54	46	d.r.o	0	0	1.0	
Glasgow ...	1009.1	55	WNW	2	og	1011.6	+2	50	-1	WSW	2	-	og	*	2	62	48	m.odp	odput	0	0.3	
Eskdalemuir ...	1009.2	55	-	0	0	1010.9	+1	53	+5	WNW	2	-	0	*	4	64	47	cg.cup	or.v.or	0	4.0	
Malin Head ...	1011.1	54	NNW	3	c	1012.7	+2	49	-5	NE	2	N	cm	2	0.3	58	47	c	c	omp	2.0	
Blacksod Point ...	1012.6	55	N	3	bc	1015.0	+3	59	+4	NNW	2	N	cv	2	-	59	47	bc	bc	cm	*	
Valencia ...	1012.4	60	NW	3	bc	1015.4	+2	54	-2	NNE	2	NW	0	2	0.1	62	48	c.bc.b	b.bc	b.bc.cdp	10.9	
Roches Point ...	1012.0	59	SW	3	c	1015.1	*	55	0	N	2	-	0	1	1	60	52	ogp	ogp.c	op.c	*	
Birr Castle ...	1010.1	62	N	1	c	1014.4	*	53	+4	N	1	-	0	*	2	64	48	fe.c	c	cp.o	3.1	
Donaghadee ...	1009.8	55	NNE	3	bcm	1013.4	+2	50	-2	NW	3	-	ogm	2	-	60	49	bcm	bcm	cm.odm	*	
Liverpool (Bidston) ...	1009.5	58	WNW	1	0	1012.4	+3	54	-1	WNW	2	W	0	1	-	62	53	bc	bm	0	4.5	
Holyhead ...	1010.9	59	NW	3	bg	1013.2	+3	53	0	NNE	4	-	0	3	Trace	64	52	b.bc.c	bc.ig	b.bc.c.d	12.5	
Pembroke (St. Ann's) ...	1010.6	56	NW	3	c	1013.8	+2	51	-1	-	0	-	fe	1	0.3	58	50	c.cm	cm	b.fe	3.5	
Scilly (St. Mary's) ...	1011.6	61	NNW	1	bc	1016.2	+2	55	+1	WNW	3	NW	bc	3	0.1	63	53	c.bc	bc	bc.cbc	9.7	
Falmouth ...	1011.2	62	NNW	2	b	1014.8	+3	57	+2	W	3	-	b	*	2	63	49	ogp	ogp.c.b	bc.bw	5.1	
Jersey (St. Aubin) ...	1010.1	61	WNW	3	c	1014.4	*	58	+1	WNW	3	NW	c	2	-	65	55	o.bc	bc	o.c	6.8	
Portland Bill ...	1009.3	58	WSW	3	b	1013.6	+3	58	+2	WNW	3	-	b	2	-	60	54	c.bc	bc	bc.b	*	
Dungeness ...	1008.1	61	SW	3	bc	1010.3	+2	58	-2	NW	2	NW	cy	2	-	64	52	o.c.bc	bc	bc	*	
Dover ...	1008.1	61	SW	3	bc	1010.3	+2	58	-1	N	3	N	0	2	-	70	54	o.c	c.bc	bc.c.o	5.2	
Wick ...	1009.5	50	N	2	0	1012.0	+2	48	0	NW	1	-	c	1	0.3	52	44	omp.d	0	o.c	*	
Nairn ...	1009.4	54	ENE	2	og	1011.7	*	49	-2	-	0	-	og	1	-	57	47	og.c	bc.cg	b.g	1.5	
Aberdeen ...	1010.0	51	ESE	2	c	1012.2	+2	48	-4	E	2	-	od	2	7	58	48	or.o	o.c	c.or	1.3	
Leith ...	1008.3	58	E	1	0	1010.7	+1	50	-1	E	1	-	r	1	4	61	50	c.od.o	od.o	o.dgr	*	
Tynemouth ...	1009.0	52	SE	2	ogm	1010.8	+1	52	+2	N	1	-	omp	3	9	54	49	bcm	ogm	omp	*	
Spurn Head ...	1009.5	55	ESE	3	f	1011.9	0	50	-2	ESE	1	-	fe	1	0.4	57	48	cf	f	fe	0.0	
Yarmouth ...	1009.7	60	SE	1	bc	1011.8	+3	54	-3	NE	2	-	om	2	-	63	53	bc	bc	bc.om	6.0	
Clacton-on-Sea ...	1008.8	31	E	2	bc	1010.5	+2	58	+2	NE	1	-	bc	1	-	65	53	o.c.bc	c.bc	bc.c.bc	5.2	
Nottingham ...	1008.5	65	NE	1	b	1011.8	*	53	+1	SE	1	-	m	*	-	67	51	om	c.bc	bm	3.9	
Benson (Oxon.) ...	1007.8	70	-	0	b	1011.0	+3	53	-2	WNW	1	-	m	*	0.2	71	49	bc	bc	bc.m	*	
Sth Farnborough ...	1007.7	70	SW	3	b	1011.2	+4	58	+5	WNW	1	-	bg	*	-	72	49	b.bc	bc.b	bg	9.6	
London (Kew Obsy.) ...	1007.8	70	SW	2	c	1011.7	+4	57	+7	NW	1	-	om	*	Trace	72	50	fe.b.bc	bc.c	c.op.com	7.3	
NORTHERN EUROPE.																						
Spitsbergen ...	1012.7	43	S	1	0	1013.5	0	39	-2	-	0	*	0	*	*	43	36	UPPER AIR. South Farnborough. Pilot Balloon Ascent at ... 6 <sup>h</sup> 30 <sup>m</sup> . Wind at:- 3400 metres SW by W. 6. " 3000 " W 5. " 2700 " W 5. " 2400 " SW by S 4. " 2100 " W by N 4. " 1800 " NW 5. " 1500 " NW by N 4. " 1200 " NW 2. " 900 " NW 3. " 600 " NW 4. " 300 " NNW 6. " Surface NW by W 1.				
Vardö ...	1013.7	55	SE	1	b	1012.7	+1	64	+5	SE	1	-	c	2	*	64	54					
Bodö ...	1002.6	59	-	0	b	1009.0	0	63	+9	N	1	-	b	1	1	63	52					
Christiansund ...	1009.3	55	-	0	r	1010.3	0	55	+3	-	0	-	0	3	10	57	52					
Skudesnaes ...	1009.0	55	SSE	5	0	1011.0	+2	54	0	NW	2	-	0	2	5	59	54					
Færder (Xianla Fjord) ...	1009.5	59	-	0	c	1010.3	+1	59	+2	-	0	-	c	0	-	61	54					
The Scaw (Skagen) ...	1010.7	61	N	1	b	1008.0	0	55	0	ENE	1	-	o	2	-	64	52					
Blaavands Huk ...	1009.7	64	NNE	1	bc	1009.3	-1	59	-2	NNE	1	-	f	*	1	64	55					
Copenhagen ...	1009.0	55	N	4	f	1008.4	-2	55	0	NNE	3	-	m	1	3	57	54					
Bornholm ...	1009.0	55	N	4	f	1008.4	-2	55	0	NNE	3	-	m	1	3	57	54					
FRANCE, &c.																						
The Helder ...	1009.3	63	NE	2	c	1008.6	0	57	-2	N	3	S	bc	2	Trace	64	55	Malta:- 5 <sup>th</sup> . Line-Squall on 4 <sup>h</sup> 30 - 5 <sup>h</sup> 30.				
C. Gris Nez ...	1009.0	62	WNW	2	bc	1010.3	+3	59	+2	SW	2	*	0	2	-	68	55					
La Hève ...	1007.9	59	N	2	bc	1011.1	*	56	0	WNW	4	*	0	5	-	66	52					
Brest (St. Mathieu) ...	1012.2	60	WNW	3	b	1017.7	+3	60	+4	WNW	3	*	bc	2	-	64	55					
Rochefort (Ile d'Aix) ...	1013.2	58	WNW	5	r	1017.7	+4	60	-1	WNW	4	*	c	*	1	68	57					
Biarritz ...	1014.0	60	WSW	4	r	1021.1	+5	62	0	WSW	5	*	r	4	40	63	57					
Paris ...	1008.0	61	N	2	blr	1011.8	+4	57	-2	WNW	2	-	0	*	17	70	55					
Belfort ...	1011.0	79	W	3	0	1009.6	*	55	+3	WSW	3	*	r	*	15	77	55					
Lyons ...	1008.3	56	NE	2	blr	1017.5	*	54	-8	-	0	*	r	*	60	77	70					
Nice ...	1008.0	72	E	6	0	1010.0	0	66	-1	WSW	6	*	b	6	Trace	86	59					
Perpignan ...	1007.4	66	W	2	c	1019.7	+6	66	-2	NW	3	-	b	*	48	79	57					
Sanguinaire ...	1007.4	79	N	3	m	1019.7	*	73	0	W	4	*	0	3	-	84	63					
SOUTHERN STATIONS.																						
Corunna ...	1019.3	64	W	4	b	1023.9	+3	61	0	S	2	-	c	1	?	66	57					
Madrid ...	1013.7	61	NW	4	c	1023.7	+3	61	+2	-	0	SW	bc	*	7	68	50					
Lisbon ...	1020.3	66	NNW	4	b	1022.9	+1	61	-2	N	3	-	b	5	-	70	57					
Azores ...	1021.9	*	SW	5	0	1022.9	0	63	-1	?	?	-	bc	?	-	72	63					
Madeira ...	1020.8	70	NE	3	bc	1020.0	0	62	-6	E	2	-	m	2	-	79	61					
Gibraltar ...	1018.9	69	W	4	b	1017.3	0	86	+2	WNW	3	-	b	1	-	90	81					
Malta ...	*	*	*	*	*	1007.4	0	95	+5	E	1	-	b	1	-	97	72					
Limassol ...	*	*	*	*	*	1010.9	0	81	+2	N	2	-	b	1	-	84	75					
Alexandria ...	1011.0	77	NW	3	b	1010.9	0	81	+2	N	2	-	b	1	-	84	75					
Cairo (Helwan) ...	1009.1	88	N	3	b	1009.5	0	81	+6	NE	3	-	b	*	-	97	72					
YESTERDAY'S REPORTS																						
2nd ... 20 h. G.M.T.																						
Venice ...	1009.4	75	-	0	f	1011.3	*	75	0	N	1	-	bc	3	-	81	70	7 h. G.M.T.				
Pesaro ...	1009.2	77	-	0	b	1012.3	*	77	0	N	1	-	c	3	-	84	70					
Rome ...	1011.3	79	S	1	0	1012.7	*	82	+7	-	0	-	0	*	-	91	72					
Viesti ...	1010.0	81	SE	2	b	1011.7	*	88	+13	-	0	-	m	4	-	90	73					
Brindisi ...	1012.4	77	SE	2	b	1013.0	*	79	+2	S	3	-	bc	4	-	90	75					
Cagliari ...	1008.7	84	SE	4	0	1008.3	*	79	+2	SE	4	-	0	4	-	84	61					
Palermo ...	1010.2	88	-	0	0	1012.6	*	86	+7	-	0	-	b	1	-	99	70					
Tripoli ...	1011.3	86	SSE	1	b	1012.7	*	97	-	-	0	-	b	0	-	99	79					
Algiers ...	1008.8	75	NW	1	c	1011.1	+1	73	-	WSW	4	-	m	3	-	86						





**FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

0 {  
b } Wind light from some Northerly point; much cloud, some rain and mist; fairer later; cool.

2 {  
b }  
3 {  
4 {  
b } Wind mainly between North-West and North, light; mostly fair, some local mist or fog on coast; temperature rising somewhat.

6 {  
b }  
7 {  
b }  
8 {  
b } Light winds between North and North-West; cloudy to bright, some local mist or fog on coast; temperature rising.

10 {  
b }  
11 { North-Westerly winds light or moderate; sea slight; fair generally.

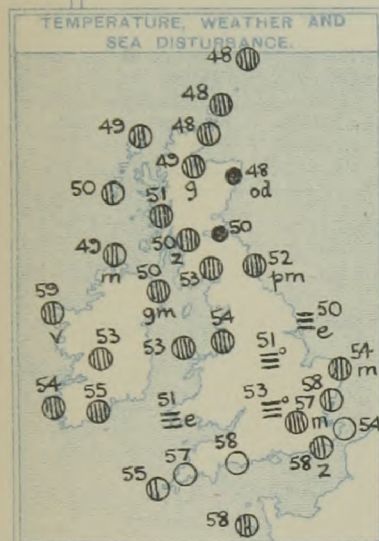
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 5<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

It appears probable that pressure will continue to increase slowly over the British Isles and their neighbourhood.



## 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.

**TEMPERATURE.**—Given in degrees Fahrenheit.

Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

○ sky 1/2 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~.

Inches.  
31

30

29

SCALE 1:250,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 50° 50°-60° 60°-70° Above 70°

Scale of Tints for JULY.

H I C H

1020mb

60° generally

Barometer

LOW

Barometer

falling

LOW

1010mb.

29.83 in

29.97 in

29.83 in

29.83 in

29.83 in

29.83 in

29.83 in

29.83 in

29.83 in

29.83 in



REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	...3rd. AT 9 P.M. LOCAL TIME					...4th. AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours.	Direc.	Force 0-12.								
Archangel ...	1011.4	72	SE	2	b	1012.7	0	70	+4	SE	2	*	b	*	*	57			
Gorki ...	1010.1	59	-	0	b	1012.0	+4	61	+4	NW	1	*	b	*	*	52			
Veliki Luki ...	1011.4	63	-	0	b	1012.7	*	59	-	SSE	1	*	0	*	*	52			
Hangö ...	1008.4	57	ESE	2	0	1010.1	+1	57	+2	SSE	2	*	0	*	*	55			
Riga ...	1010.1	63	-	0	0	1011.0	0	64	+7	-	0	*	b	*	*	55			
Petrograd ...	1009.9	61	WNW	2	c	1011.7	+2	59	-5	W	1	*	0	*	70	57			
Moscow ...	1006.4	61	NNW	2	0	1008.8	+2	63	0	NNW	2	*	0	*	*	54			
Kiev ...	1013.5	63	NW	2	0	1014.7	0	64	+7	NW	2	*	bc	*	*	50			
Kharkov ...	1010.3	59	WNW	2	b	1011.8	+2	64	+7	NW	3	*	0	*	*	55			
Kishinev ...	1014.3	72	NW	1	b	1015.0	+1	68	+7	SE	2	*	bc	*	*	61			
Elisabetgrad ...	1013.9	61	NW	1	b	1015.5	0	61	0	-	0	*	b	*	*	50			
Nicolaiev ...	1013.5	70	-	0	b	1015.4	*	64	+1	-	0	*	b	*	*	54			
Odessa ...	1014.7	72	WSW	3	bc	1016.0	+1	70	+6	W	2	*	0	*	*	64			
Tarkhankout ...	1015.5	70	W	3	bc	1016.4	?	72	-1	W	2	*	b	*	*	70			
Soukhoum ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	-			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 h.

STATIONS.	Sun-shine for 3 h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine to 17 h.	Hr.	STATIONS.	Sun-shine for 3 h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine to 17 h.	Hr.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.					Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.		
		Mm.	Mm.	° F.	° F.							Mm.	Mm.	° F.	° F.				
Scotland.										England, E.									
Oban ...	5.3	-	-	59	49	0	b.c.c.	0.6		Lowestoft ...	1.9	0.3	-	61	55	r.c.	c.b.c.	3.8	
Banff ...	0.0	6	-	55	49	0.6c	bc.	3.8		Felixstowe ...	1.6	1	-	64	55	om.b.c.	bc.	4.1	
Carnoustie ...	*	*	*	57	52	r.b.c.p	r.c.b.p	0.0		Walton-on-Naze ...									
St. Andrews ...	2.7	-	-	61	49	op	op	0.0		Southend-on-Sea ...	0.0	1	-	67	55	0.c.b.c.	b.c.	1.7	
Eng. N.E.										England, S.E.									
Harrogate ...	1.4	3	-	61	47	0	0.c.b.c.	1.0		Margate ...	5.2	-	-	65	53	c	b.b.c.	5.4	
Skegness ...	4.2	1	-	61	52	c.b.c.	bc.m	7.2		Ramsgate ...	8.5	-	-	65	53	0.6c	bc.	5.9	
Eng. N.W.										Hastings ...	*	*	*	64	54	or.o	bc.o	1.8	
Morecambe ...										Eastbourne ...	2.4	3	0.2	65	54	0.b.c.	c.b.c.	2.2	
Blackpool ...										Seaford ...	2.6	*	*	65	53	bc	bc	6.0	
Southport ...	1.1	-	-	63	50	0.c.c.	0.c.c.	2.0		Brighton ...									
Midlands.										Worthing ...	1.5	1	-	65	49	bc.	b.	9.4	
Buxton ...										Littlehampton ...	2.3	1	-	62	48	0.b	bc.	8.9	
Leamington Spa ...	4.2	-	-	67	48	om	bc.b	5.2		Bognor ...									
Malvern ...	*	-	1	67	47	bc.c	c.b.c.	4.0		Bournemouth ...	*	-	-	67	50	c.b.c.	bc.	9.0	
Ross-on-Wye ...	2.0	-	-	68	45	om.b.c.	bc.	3.7		England, S.W.									
Wales.										Weymouth ...	*	-	-	67	54	c.b.c.	b.	7.0	
Rhyl ...	1.0	1	-	62	49	0.c.b.c.	bc.c	6.2		Torquay ...	11.3	-	1	65	54	0.c	cp.	0.7	
Colwyn Bay ...	*	-	-	64	50	c	bc.	6.0		Paignton ...									
Llandudno ...	*	*	*	64	51	c.b	bc.	6.5		Penzance ...	3.8	-	?	65	51	c.or.b.c.	bc.	5.5	
Aberystwyth ...	*	*	*	60	53	r.o.c	c.o	2.5		Newquay ...	0.9	-	-	60	48	b	b.	6.0	
Tenby ...	6.7	-	-	66	58	p	p.	5.6		Bude ...	1.4	-	-	63	52	c	bc.	6.0	
										Ilfracombe ...	*	-	-	61	50	c.b.c.	bc.c	2.0	
										Weston-s-Mare ...	3.0	0.3	-	65	42	b.b.c.	b.b.c.	5.3	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1296 Joules.	Average Rate. 219 Milliwatts.	Max. Rate. 344 Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.					
				Max.	Min.											
														24 HOURS ENDED 9 h. TO-DAY		
%	%	°F.	°F.	°F.	min. §				Morning.	Evening.		Morning.	Evening.			
Greenwich (Royal Obsy.) ...	75	86	5.2	71	51	43	-	c	0.c	c.b.c.						
City (Bunhill Row) ...	*	*	*	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	66	87	5.2	69	54	49	-	bc.m	bc	bc.m	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	60	81	4.9	72	53	50	1	bc.c	0.c	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	92	5.6	68	52	39	2	c.	0	om	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	82	5.8	70	60	45	1	c.	0.c	0.c.c.	Denmark ...	6	17	Azores ...	8	17
Richmond Park	*	*	*	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	7.3	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
Egypt ... 6 18 Limassol... 6 —																

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

STATIONS.	1916.		
	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5.39	1.36	8.16
Greenwich ...	5.32	1.25	8.16
Wick ...	5.18	1.16	8.15
Valencia ...	5.26	1.45	8.10

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 70° in Southern and South-Eastern England, but remained below 65° in most districts. Slight rain fell in a few places and thunder was heard at Southport and Glasgow. Heavy rain and thunderstorms have occurred in the East of France.

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

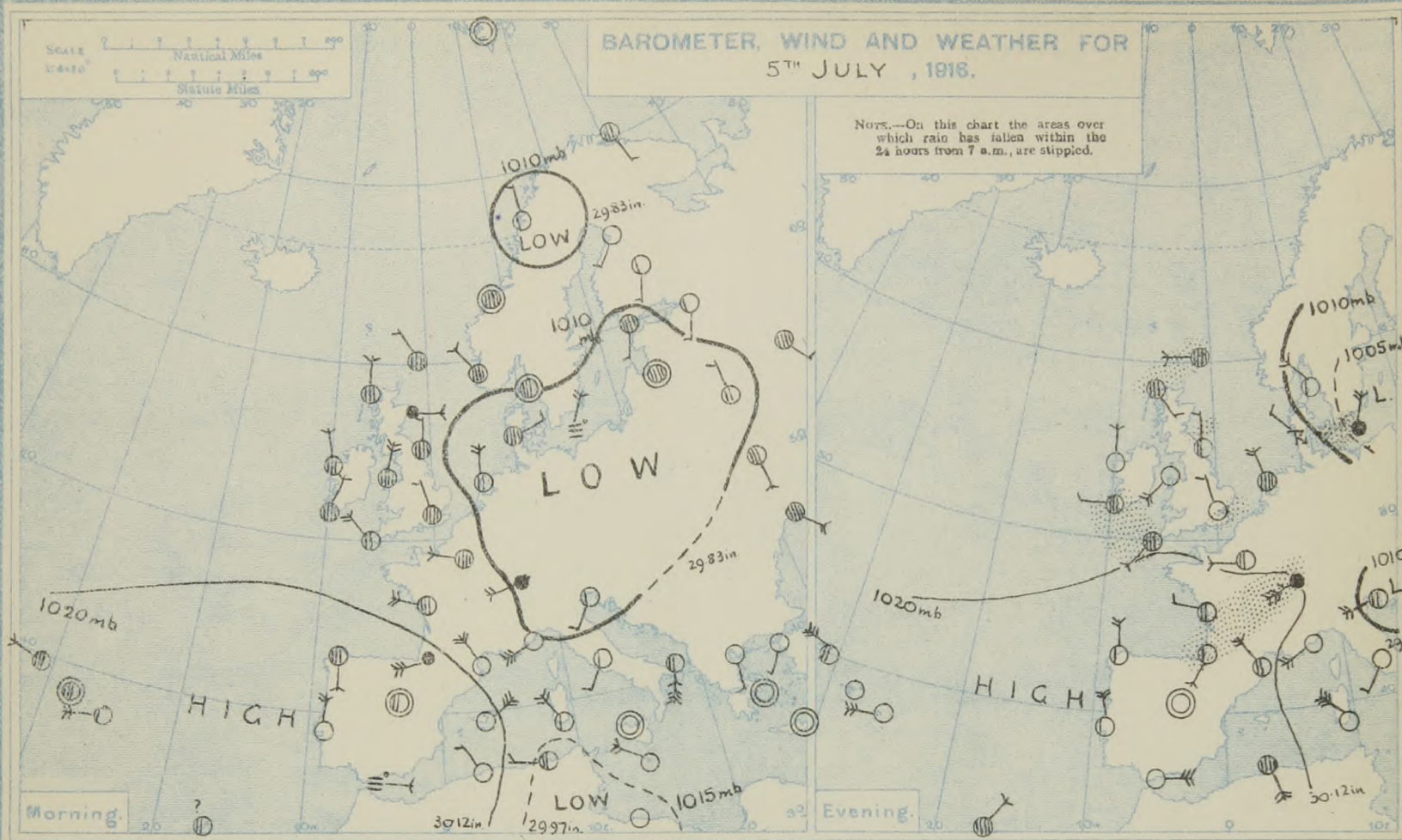
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 188. Thursday, 6th July.

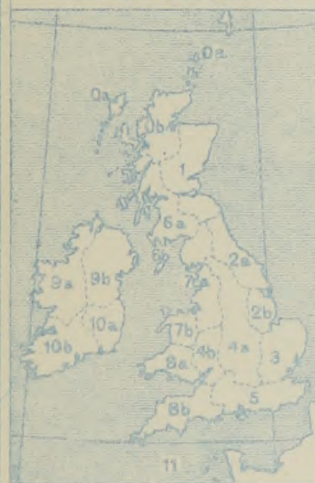
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.			Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.					Force 0-12.	Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	1013.0	51	W	2	0	1012.5	50	+2	-	0	-	0	0	1	53	47	om	om	o	*	
Deerness (Orkney) ...	1013.5	51	N	2	0	1012.5	50	+2	SW	2	-	0	1	1	52	48	opd	pd.o	o	0.0	
Stornoway ...	1014.8	51	SE	1	cp	1013.3	49	0	NW	1	-	c	1	0.1	55	44	c	cp	c	0.6	
Castlebay (Barra Isd.) ...	1016.6	55	WNW	3	c	1013.1	51	+1	NE	2	-	0	2	-	56	48	bc, bc	bc	c. o	5.4	
Glasgow ...	1014.0	55	W	2	cy	1013.5	48	-2	-	0	SE	cm	*	-	56	42	agz	agz	c. bc, m	0.0	
Eskdalemuir ...	1014.4	54	W	2	0	1013.7	49	-4	SE	2	-	c	*	-	55	33	0	0	c. bc, m	0.9	
Malin Head ...	1015.2	54	NE	1	bcv	1012.8	55	+6	E	1	W	bc	1	-	56	47	bcv	bcv	bc	6.7	
Blacksod Point ...	1015.9	55	N	2	bv	1010.9	52	-7	SE	3	SE	bc	2	-	59	48	bc	bv	bc	*	
Valencia ...	1016.1	58	W	1	c	1007.7	57	+3	ENE	3	SW	0	3	2	61	53	bc	c. bc	c. o, r	0.6	
Roche's Point ...	1016.7	58	WSW	2	0	1010.6	55	0	ESE	3	-	r	3	4	65	53	o. bc, c	c. o	c. bc, r	*	
Birr Castle ...	1014.6	62	NNE	1	c	1011.4	54	+1	S	1	-	0	*	-	63	51	o c	c	o	2.6	
Donaghadee ...	1015.6	53	NE	1	cv	1013.5	53	+3	SE	2	-	bc	1	Trace	55	47	cv	cv	cv, bc	*	
Liverpool (Bidston) ...	1016.2	57	W	2	b	1014.0	55	+1	SSE	1	-	0	1	-	59	51	om	b. b, m	o	7.8	
Holyhead ...	1016.5	59	SW	4	by	1013.2	55	+2	SSW	4	-	ag	3	-	61	53	o. c, bc, o	c. bc, b	bc, o, c	9.6	
Pembroke (St. Ann's) ...	1017.1	57	W	3	b	1013.5	54	+3	SSW	3	-	or	2	1	59	50	f	f. b	c. c, p	7.2	
Scilly (St. Mary's) ...	1019.3	60	WSW	2	c	1013.4	55	0	E	4	-	orm	4	5	64	54	b	bc, c	o. m, r	9.5	
Falmouth ...	1019.1	61	SW	4	c	1014.3	56	-1	SSW	3	-	od	*	Trace	66	55	b	bc, c	o. od	11.4	
Jersey (St. Aubin) ...	1019.6	61	W	5	b	1018.1	58	0	SSW	2	-	0	2	-	63	54	q. bc	bc, b	bc, o	12.3	
Portland Bill ...	1016.7	58	WSW	5	bc	1017.7	56	-2	SW	3	-	c	3	-	61	54	bc, b	bc, c	bc, c, o	*	
Dungeness ...	1014.5	60	WSW	4	c	1016.2	58	0	WSW	4	SW	bc	4	-	65	55	bc, o	o. bc	bc	*	
Dover ...	*	*	*	*	*	1017.1	58	0	SW	2	-	0	4	7	70	52	*	*	cp, bc, o	4.7	
Wick ...	1012.4	51	ESE	1	c	1012.7	51	+3	-	0	-	0	1	-	53	45	c. o	o. c	c. o	*	
Nairn ...	1013.5	57	-	0	c	1012.8	53	+4	-	0	-	bc	0	-	60	47	cg, c. bc	bcv, c	c. bc, w	0.8	
Aberdeen ...	1014.3	52	E	1	c	1013.2	53	+5	S	2	SW	c	1	-	57	48	od, o	o. bc, c	c. o, c	1.0	
Leith ...	1014.2	51	E	1	o	1013.1	51	+1	W	1	-	b	1	3	57	44	r	o	c. bc, b	*	
Tynemouth ...	1013.8	56	N	1	bc, m	1014.3	53	+1	NNW	1	W	cm	2	-	62	48	cm	bc, m	cm	*	
Spurn Head ...	1014.3	62	WNW	4	bc, m	1016.2	54	+4	NW	3	-	c	?	-	63	50	f. om	bc, m	bc	2.1	
Yarmouth ...	1016.4	56	SE	3	o	1016.3	55	+1	-	0	-	c	1	-	61	53	b, m, b	bc, m, o	o. c	5.8	
Clacton-on-Sea ...	1015.1	61	SSE	2	bc	1016.5	58	0	WSW	1	W	c	1	6	65	55	bcz	ct, r	bc, cpd	5.6	
Nottingham ...	1015.2	63	WNW	3	bc	1015.3	53	0	SE	1	S	0	*	-	67	49	f. o, c	bc	bc, b	7.2	
Benson (Oxon.) ...	1015.2	67	NW	2	o	1016.4	54	+1	SSW	2	-	0	*	-	71	46	bc	bc	b. bc	*	
St. Farnborough ...	1015.0	70	WNW	2	bc	1016.5	57	-1	SSW	3	-	0	*	-	74	43	b. bcz	bc	bc, b, o	10.5	
London (Kew Obsy.) ...	1015.4	67	NNW	1	bz	1016.8	57	0	SW	2	-	0	*	1	70	54	om, c, b	bc, o, r, bz	bz, o	5.1	
NORTHERN EUROPE.																					
Spitsbergen ...											*		*	*			UPPER AIR.				
Vardö ...													*	*			South Farnborough.				
Bodö ...																	Pilot Balloon Ascent at 6.25 AM.				
Christiansund ...																	Wind at 1500 metres SW 9				
Skudesnaes ...																	" " 1200 " SW 8				
Færder (Xaniafjord) ...																	" " 900 " SW 7				
The Scaw (Skagen) ...	1008.8	63	NW	2	b	1007.4	59	0	WNW	2	SE	c	2	-	66	55	" " 600 " SW 8				
Blaavands Huk ...	1011.3	54	NW	1	bc	1013.1	52	-3	WNW	3	-	0	3	-	66	52	" " 300 " SW 6				
Copenhagen ...	1006.3	66	NNE	3	c	1007.3	61	+2	NNW	4	-	c	*	-	70	59	Surface WSW 4				
Bornholm ...	1004.7	55	NNE	3	r	1001.9	57	+2	NW	5	-	m	2	6	59	55					
FRANCE, &c.																					
The Helder ...	1013.5	57	NNW	3	o	1016.3	57	0	SW	2	-	0	0	-	63	55					
C. Gris Nez ...	1015.9	58	WSW	4	o	1017.2	57	-2	WSW	5	*	0	3	-	66	55					
La Hève ...	1018.3	63	WSW	4	b	1019.1	57	+1	WSW	2	*	0	2	-	66	54					
Brest (St. Mathieu) ...	1021.6	60	W	3	o	1016.6	58	-2	S	4	*	0	3	-	66	57					
Rochefort (le d'Aix) ...	1023.3	64	WNW	4	bc	1020.6	59	-1	SE	3	*	c	*	-	68	57					
Biarritz ...	1024.4	68	SW	2	b	1020.0	58	-4	ESE	3	*	b	2	8	70	54					
Paris ...	1018.6	66	WNW	2	o	1020.3	59	+2	SSW	1	-	b	*	-	72	52					
Belfort ...	1020.0	50	WSW	7	r	1023.7	54	-1	WSW	2	*	0	*	?	62	49					
Lyons ...	1021.5	62	NW	2	b	1022.4	59	+5	-	0	*	b	*	1	69	51					
Nice ...	1010.9	73	WSW	4	b	1016.8	73	+7	-	0	*	b	2	-	82	59					
Perpignan ...	1021.6	72	NW	3	bc	1021.6	66	0	W	1	-	b	*	-	79	54					
Sanguinaire ...	*	75	W	4	3	*	68	-5	W	1	*	m	5	?	81	63					
SOUTHERN STATIONS.																					
Corunna ...	1024.2	64	N	3	b	1019.3	59	-2	SW	4	-	0	2	-	66	54					
Madrid ...	1019.8	75	-	0	b	1020.4	66	+5	ENE	1	SW	b	*	-	79	55					
Lisbon ...	1020.7	72	NNW	4	b	1020.8	61	0	N	2	-	bc	2	-	77	59					
Azores ...	1024.3	*	W	5	bc	1023.0	68	+4	WSW	5	-	0	2	-	79	64					
Madeira ...	1022.9	68	NE	2	o	1023.0	64	+1	NE	2	-	b	2	-	70	63					
Gibraltar ...	1020.3	72	E	5	b	1019.6	70	+8	E	5	*	b	3	-	82	61					
Malta ...	*	*	*	*	*	1016.2	75	-11	NW	4	-	b	3	-	90	77					
Limassol ...	*	*	*	*	*	1006.9	88	-7	S	1	-	b	1	-	95	70					
Alexandria ...	1009.5	79	N	2	b	1009.3	79	-2	NNW	2	-	b	1	-	85	75					
Cairo (Helwan) ...	1007.0	90	NE	2	b	1007.7	81	0	N	2	-	b	*	-	100	72					
YESTERDAY'S REPORTS																					
4 h. 20 h. G.M.T.																					
5 h. 7 h. G.M.T.																					
MEDITERRANEAN.																					
Venice ...	1010.0	77	E	1	o	1007.4	79	+4	SW	1	-	b	3	-	84	76					
Pesaro ...	1010.4	70	NE	1	b	1010.2	82	+5	SW	2	-	bc	3	-	84	72					
Rome ...	1012.2	93	S	1	b	1015.9	75	-7	SW	1	-	b	*	-	95	73					
Viesti ...	1012.1	86	SE	1	b	1011.3	84	-4	SW	7	SW	bc	4	-	97	79					
Brindisi ...	1014.4	79	SW	4	b	1013.2	82	+3	SSW	8	-	bc	4	-	91	75					
Cagliari ...	1010.0	73	NW	6	b	1019.0	79	0	NW	4	-	b	4	-	86	59					
Palermo ...	1014.8	93	S	1	b	1017.9	82	-6	-	0	-	b	1	-	99	70					
Tripoli ...	1012.9	81	SSE	1	b	1014.4	98	+1	-	0	SE	b	0	-	97	79					
Algiers ...	1015.4	75	WSW	5	b	1021.1	72	-1	NW	1	-	b	2	-	82	66					





### FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Wind variable or between East and South, light; some showers; variable sky; cool.                          |
| 1  | b |   |  |
| 2  | a | } | Southerly to South-Easterly winds, light or moderate; becoming rainy; cool.                                |
| 3  | b |   |  |
| 4  | a | } | South-Westerly and Southerly winds, light to moderate; becoming rainy; cool.                               |
| 5  | b |   |  |
| 6  | a | } | South-Easterly or Easterly winds, light; much cloud, some rain; cool.                                      |
| 7  | b |   |  |
| 8  | a | } | Wind between South-West and South-East, moderate or fresh; rain at times, some mist or fog on coast; cool. |
| 9  | b |   |  |
| 10 | a | } | Southerly to South-Westerly winds, moderate or fresh; rainy to showery, some mist or fog.                  |
| 11 | b |   |  |

#### FURTHER OUTLOOK.

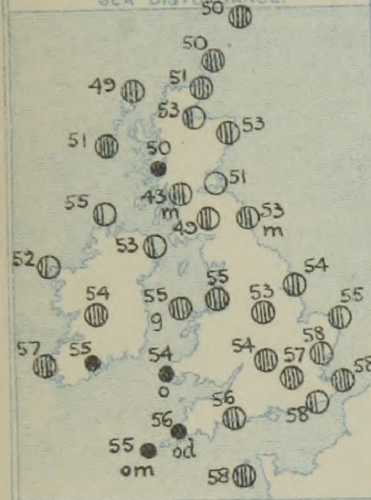


# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 6<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The new depression in the West will move East or North-East and prolong the unsettled weather conditions.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



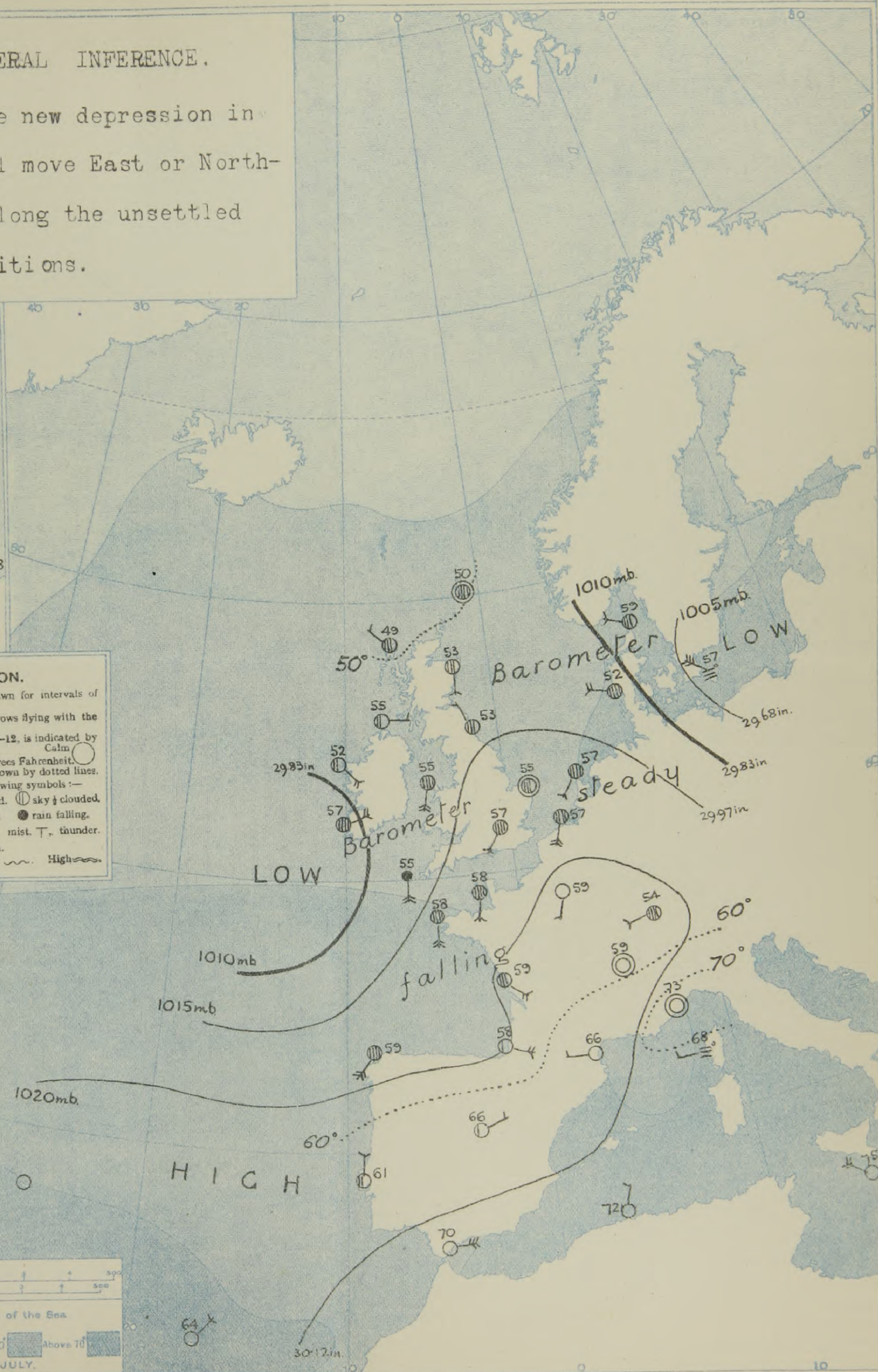
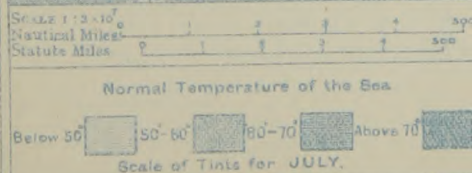
### EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 3/4 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches  
31

30

29





REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	.....AT 9 P.M. LOCAL TIME.				.....AT 7 A.M. LOCAL TIME.				Barom. at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	Barom. Milli- bars at M.S.L.	TEMP. F.	Wind. Direc.	Force 0-12.	Barom. at M.S.L.	TEMP. F.	Wind. Direc.	Force 0-12.											Max.	Min.
Archangel ...	10111	59	N	1	10187	70	0	0	10097	2	64	+3	N	1	*	b	*	*	61	48
Gorki ...	10111	59	N	1	10117	52	0	0	10117	0	63	+4	0	0	*	b	*	1	52	52
Veliki Luki ...	10122	59	0	0	9991	0	63	+4	10091	0	66	+9	0	0	*	0	*	*	52	52
Hangö ...	10110	66	0	0	10130	66	NW	3	10135	71	66	+2	SSW	1	*	b	*	72	59	59
Riga ...	10130	61	NNW	2	10126	61	NNW	2	10126	61	63	+4	ENE	1	*	0	*	2	57	57
Petrograd ...	10132	72	SE	2	10114	0	68	+5	10114	0	68	+5	S	2	*	c	*	*	63	63
Kiev ...	10147	70	SE	2	10163	75	49	WNW	44	*	75	+9	WNW	44	*	b	*	*	64	64
Kharkov ...	10143	72	0	0	10136	71	59	-9	0	*	59	-9	0	0	*	0	*	*	59	59
Kishinev ...	10170	72	S	3	10164	73	+3	SE	3	*	73	+3	SE	3	*	b	*	*	70	70
Elisabetgrad ...	10177	70	S	2	10171	70	-2	SE	3	*	70	-2	SE	3	*	b	*	*	54	54
Nicolaiev ...	10133	63	NNW	1	10143	+1	66	-	0	*	66	-	0	0	*	b	*	*	54	54
Odessa ...																				
Tarkhankout ...																				
Soukhom ...																				

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for Hr.	Rainfall		TEMPERATURE		WEATHER		Sun- shine for Hr.	STATIONS.	Sun- shine for Hr.	Rainfall		TEMPERATURE		WEATHER		Sun- shine for Hr.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
Scotland.	1.3	-	-	59	49	0	bc. 0	2.5	England, E.	5.7	-	-	58	53	o.c.	c. oz	5.7
		-	-	55	44	bc	bc	3.0			-	-	64	52	f. bc	b. f. 2p.	3.7
		*	*	58	49	0	bc. o. c.	0.7			-	-	69	55	o. c. bc	c. bc. r. z	3.0
		0.0	2	53	40	0	c	0.0			-	-	69	55	o. c. bc	c. bc. r. z	3.0
Eng. N.E.	1.0	-	-	62	50	bc. b	b	7.2	England, S.E.	5.4	-	0.4	65	57	c	b. bc. c	2.9
		-	-	61	51	fg	fg. b	1.6			-	-	67	59	z. o. c	c. o	4.9
Eng. N.W.	7.2	-	-	60	50	op. c	c. bc. b	5.0	England, S.W.	7.9	-	-	65	51	bc	bc. c	10.4
		-	-	59	52	op. c	c. bc. b	5.0			-	-	62	54	b	b. bc	9.5
Midlands.	5.2	-	2	68	49	bc. c	bc. c. pt	4.2	England, S.W.	8.1	-	-	63	58	c. bc	bc. b	2.1
		-	3	68	53	bc. p.	bc. c. o	7.0			-	-	63	58	c. bc	bc. b	2.1
Wales.	7.2	-	-	57	46	c. bc.	bc. b	5.9	England, S.W.	2.0	-	-	62	50	f. c. bc. c	bc. c	8.1
		-	-	60	51	c	bc	4.8			-	-	65	52	b	b	10.2
Wales.	5.9	-	-	66	58	-	-	6.0	England, S.W.	6.8	-	-	65	52	b	b	10.2
		-	-	66	58	-	-	6.0			-	-	65	52	b	b	10.2

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.	Total. 13.5 Joules.	Average Rate. 22.2 Milliwatts.	Max. Rate. 82. Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.					
				Max.	Min.										
															24 HOURS ENDED 9 h. To-Day
	%	%	Hr.	F.	F.	F.	mm. §								
Greenwich (Royal Obs.) ...	59	70	3.8	75	52	43	1	c. o	o.	o. p. o.					
City (Bunhill Row) ...	*	*		*	*	*		*	*	*					
Westminster (St. James's Pk.)	61	72		72	54	50	2	bc	bc	bc. o. o.					
Camden Sq. (Brit. Rainfall)	58	66	5.1	74	53	51	1	o. bc	o. r						
Hampstead (Reservoir) ...	*	72	5.5	71	51	37	Trace	bc.	c. o	bc. o.					
S. Kensington (Museum Grounds)	*	64	5.3	72	54	46	-	bc. z.	bc. c.	o. p. o.					
Richmond Park ...	*	*		*	*	*		*	*	*					
Kew. (See front page.)	*	*	5.1	*	*	*		*	*	*					
(Greenwich and Camden Square air temperatures are in Glaisher screens.)															
Hours of Observation G.M.T.															
											Morning.	Evening.		Morning.	Evening.
											h.	h.		h.	h.
British Isles ...											7	18	Corunna ...	7	16
France ...											7	18	Madrid ...	8	16
Norway ...											7	18	Lisbon ...	7	21
Denmark ...											6	17	Azores ...	8	17
Holland ...											6	17	Madeira ...	7	21
Italy ...											7	20	Malta ...	8	—
Egypt ...											6	18	Limassol...	6	—

## NOTES ON YESTERDAY'S WEATHER.

Temperature touched 70° at some English stations, but again remained below 65° over a large portion of the United Kingdom; below 60° in places. Thunderstorms occurred locally in the Eastern and South-Eastern Counties. Several hours of bright sunshine were recorded in most districts.

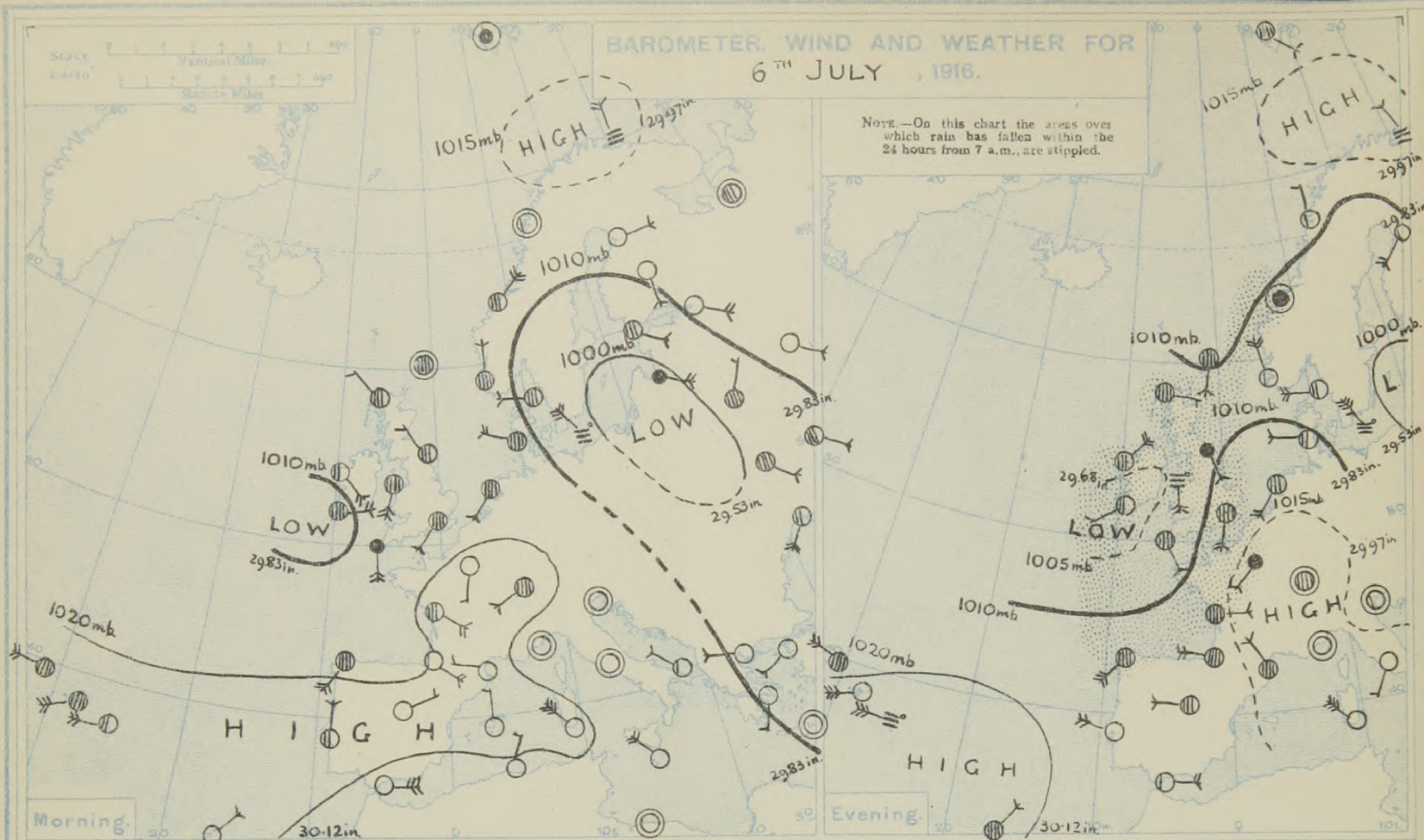
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; 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.



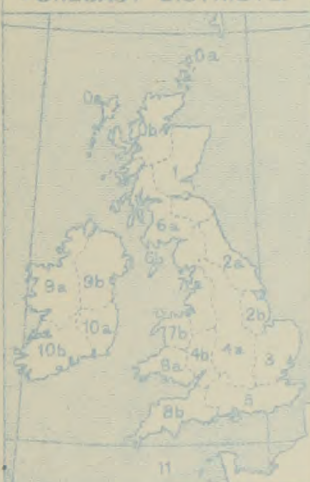
STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day.							
	Barom. Milli- bars at M.S.L.	TEMP. °F	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.											
			Dir.	Force 0-12.				Dry °F.	Change in 24 hours.						Dir.	Force 0-12.	Max.	Min.	Morning.	Afternoon.		Night.						
BRITISH ISLANDS.																												
Lerwick ...	1010.6	52	S	2	o	1008.4	-1	52	+2	-	0	-	bc	0	-	54	48	o	o	c. bc	*							
Deerness (Orkney) ...	1009.8	50	S	1	c	1007.1	*	50	0	SE	2	-	o	2	-	55	49	o	o. c	c. o	0.6							
Stornoway ...	1009.8	51	E	1	op	1006.8	+1	50	+1	NE	2	-	od fm	2	0.2	55	44	c. o	op	abc. dpm	0.1							
Castlebay (Barra Isd.) ...	1009.4	54	NNE	3	b	1007.2	0	51	0	NNW	3	-	bc	3	1	56	48	op	o. c. b	bc	3.1							
Glasgow ...	1008.0	58	S	2	c	1009.2	-3	51	+3	NE	2	-	omd	11	63	48	cm. c	c. bc. c	omf. or	5.8								
Eskdalemuir ...	1008.9	52	-	0	r	1002.1	-2	51	+2	NE	2	-	od	16	53	47	c. bc. c	or. og. or	or. od	3.1								
Malin Head ...	1008.1	55	NE	3	bc	1004.2	0	52	-3	N	4	N	bc	4	-	58	50	bc	bc	bc	14.6							
Blacksod Point ...	1006.3	56	NE	4	cg	1005.4	0	53	+1	NNE	4	NE	c	3	0.4	59	47	om	gp	cg	*							
Valencia ...	1003.7	60	WSW	1	bc	1003.1	+2	56	-1	ENE	3	NE	c	3	2	64	54	op. c	c. op	c. c. c	1.9							
Roche's Point ...	1005.3	59	S	3	c	1002.7	*	56	+1	N	3	-	o	2	3	61	54	f. dec	cm	o	*							
Birr Castle ...	1003.8	56	NE	1	r	1002.4	*	52	-2	NNW	2	-	r	3	8	58	51	od	or. od	od r	0.0							
Donaghadee ...	1007.9	52	ESE	3	omr	1002.1	-1	51	-2	NNW	4	-	ofr	3	15	55	50	ofr	om	om. r	*							
Liverpool (Bidston) ...	1007.0	58	ESE	3	o	1000.3	-2	56	+1	ESE	3	E	r	2	2	63	54	or	or	or	0.0							
Holyhead ...	1005.8	57	S	4	om	1000.0	-1	56	+1	E	2	S	ofe	0	10	59	54	o. od m	od. om	or. f. o	0.1							
Pembroke (St. Ann's) ...	1006.6	56	SW	3	ofp	1000.0	-1	55	+1	NNW	1	-	f	2	10	58	54	or. fr	fr. cp	of. fr	0.5							
Scilly (St. Mary's) ...	1006.9	58	SSE	2	omf	1001.8	0	57	+2	W	4	W	cp	4	9	61	54	om. c	omf	omf. c	1.2							
Falmouth ...	1007.6	57	SSW	3	or	1001.2	+1	57	+1	W	2	-	bc	22	61	53	rq	cy	od. c	0.1								
Jersey (St. Aubin) ...	1011.9	60	SSW	3	op	1002.7	*	60	+2	SW	3	-	og	3	6	63	57	o. c. o	op	og. r	0.5							
Portland Bill ...	1010.5	57	S	3	or	1001.1	-2	57	+1	SSW	3	SW	o	3	9	60	55	c. o	op	or	*							
Dungeness ...	1013.1	59	SW	2	c	1003.4	-3	57	-1	S	4	-	r	4	2	62	55	bc. c	o. bc	bc. c. or	*							
Dover ...	*	*	*	*	*	1004.0	-5	55	-3	S	4	-	r	4	4	62	54	o. c	c	om	2.0							
Wick ...	1009.7	51	-	0	o	1007.0	-1	50	-1	ESE	2	-	o	3	3	53	49	o. c	c. o	r. og	*							
Nairn ...	1009.0	54	NE	1	og	1005.6	*	53	0	E	1	-	og	1	1	59	49	bc. d. c	cg	og. u	2.5							
Aberdeen ...	1009.5	53	SSE	3	c	1005.8	-1	52	-1	ENE	2	-	r	3	1	57	50	o. c	bc. c	c. or	4.4							
Leith ...	1008.0	55	WSW	1	o	1002.0	-1	51	0	NE	2	-	r	4	9	61	50	b. bc. c	c. op. o	c. or	*							
Tynemouth ...	1009.4	54	SSE	2	omgd	1003.0	-3	52	-1	SSE	2	-	omd	3	1	60	51	om	omf	omr	*							
Spurn Head ...	1011.2	56	SW	3	r	1004.4	-2	56	+2	S	4	-	om	4	2	59	53	cg	or	or. c	0.2							
Yarmouth ...	1011.7	60	SW	2	o	1005.3	-3	57	+2	S	4	-	o	3	1	66	54	c	c. o	br. d. o	1.2							
Clacton-on-Sea ...	1012.5	61	SSW	4	o	1004.5	-2	58	0	S	4	SW	r	3	1	63	57	cm. o	o	o. c. or	0.3							
Nottingham ...	1009.7	58	SSE	1	r	1001.5	*	57	+4	SE	1	SE	r	*	6	62	53	o	r. o	r. o	0.0							
Benson (Oxon.) ...	1010.6	57	SSW	3	r	1001.1	-3	56	+2	SE	3	-	r	13	64	54	o	r	r	*								
St. Farnborough ...	1010.9	58	SSW	4	o	1001.1	-4	57	0	SSE	3	-	or	9	64	55	ov	or	or	0.3								
London (Kew Obsy.) ...	1011.5	61	SSW	3	o	1001.8	-4	57	0	SSE	2	-	om	4	65	56	o	od. o	c. od. om	0.7								
NORTHERN EUROPE.																												
Spitsbergen ...	1012.7	37	SE	2	o	1013.6	+1	39	0	-	0	*	o	*	39	36	UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....											
Vardö ...	1017.0	46	NNW	2	f	1018.9	+1	48	-2	NE	1	-	f	3	*	50	46	RAINFALL. Equivalents of Millimetres in inches.										
Bodö ...	1010.7	61	N	1	b	1009.0	-1	70	+1	E	1	-	b	1	-	55	55											
Christiansund ...	1009.6	55	-	0	r	1005.9	-1	54	-1	-	0	-	r	3	4	59	54											
Skudesnaes ...	1008.4	54	NNW	4	b	1005.1	-2	54	0	NNW	6	-	c	2	-	59	54											
Færder (Xtania Fjord) ...	1005.9	63	W	4	bc	1002.7	-2	57	-2	W	4	-	b	4	-	64	54											
The Scaw (Skagen) ...	1012.2	59	W	2	bc	1007.7	-2	55	+3	WNW	2	-	o	2	-	61	52											
Blaavands Huk ...	1007.5	63	NW	6	c	1006.3	0	57	-4	WNW	5	-	c	*	-	66	54											
Copenhagen ...	1004.8	57	NW	7	m	1005.9	+2	54	-3	WNW	6	-	m	2	-	61	52											
FRANCE, &c.																												
The Helder ...	1012.4	59	SW	3	c	1007.7	-3	57	0	S	2	SW	b	1	-	63	50	mm.					Inches		mm.		Inches.	
C. Gris Nez ...	1015.3	61	SW	2	c	1005.6	-3	56	-1	SE	3	*	r	2	1	63	55											
La Hève ...	1013.2	57	SSE	5	o	1004.8	*	58	+1	SSW	5	*	r	4	1	66	55											
Brest (St. Mathieu) ...	1009.5	57	S	5	f	1003.8	0	58	0	W	3	*	o	3	2	66	55											
Rochefort (Ile d'Als) ...	1014.1	67	E	2	o	1008.7	-3	61	+2	SSW	5	*	o	4	2	72	57											
Biarritz ...	1013.7	67	W	4	o	1009.9	-2	62	+4	SE	2	*	o	2	-	81	58											
Paris ...	1015.1	59	WSW	1	o	1002.6	-2	59	0	S	2	-	o	*	2	70	54											
Belfort ...	1016.4	64	-	0	o	1013.0	*	58	+4	-	0	*	o	*	-	73	55											
Lyons ...	1015.5	69	-	0	o	1012.2	*	61	+2	-	0	*	o	*	-	73	59											
Nice ...	1016.3	69	-	0	b	1015.0	+1	63	-10	-	0	*	c	1	-	79	57											
Perpignan ...	1015.7	70	NW	2	o	1011.1	-2	66	0	NE	2	NE	o	*	-	75	61											
Sanguinaire ...	*	78	W	3	bc	*	*	73	+5	E	1	*	bc	3	-	82	63											
SOUTHERN STATIONS.																												
Corunna ...	1016.2	68	SW	5	o	1006.9	-6	63	+4	SW	7	-	r	4	8	70	59											
Madrid ...	1014.1	81	W	2	c	1013.7	0	66	0	SW	3	SW	b	*	-	84	59											
Lisbon ...	1018.9	66	WNW	4	b	1016.8	0	64	+3	SW	2	-	o	2	-	75	63											
Azores ...	1021.6	*	WSW	6	b	1018.1	0	69	+1	W	4	*	o	2	2	73	68											
Madeira ...	1022.1	68	NE	2	o	1021.0	-1	63	-1	N	2	-	b	2	-	70	63											
Gibraltar ...	1018.3	69	E	3	b	1017.3	*	61	-9	E	1	*	f	2	-	81	72											
Malta ...	*	*	*	*	*	1015.7	0	79	+4	ENE	2	-	b	2	-	81	72											
Limassol ...	*	*	*	*	*	1006.3	+2	91	+3	-	0	-	b	0	-	99	66											
Alexandria ...	1008.0	79	NNW	3	b	1009.2	+1	79	0	NNW	3	-	b	1	-	88	75											
Cairo (Helwan) ...	1006.3	91	N	3	b	1008.2	+1	75	-6	-	0	-	b	*	-	102	70											
YESTERDAY'S REPORTS																												
..... 20 h. G.M.T.																												
Venice ...	1008.6	70	WSW	4	bc	1013.9	*	68	-11	-	0	-	b	1	-	84	43											
Pesaro ...	1012.2	72	S	W	b	1015.3	*	75	-7	S	1	-	b	4	-	82	46											
Rome ...	1017.2	72	SW	1	o	1017.5	*	74	-1	-	0	E	b	4	-	84	61	</										





**FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

Wind between North-East and North-West, light or moderate; rainy, some mist; cool.

Wind veering to South-West or West, moderate; rainy to showery, some mist; cool.

Wind from some Northerly point, moderate; rain at times, some mist; cool.

North-Westerly or Westerly winds, moderate; sea moderate; showery, misty.

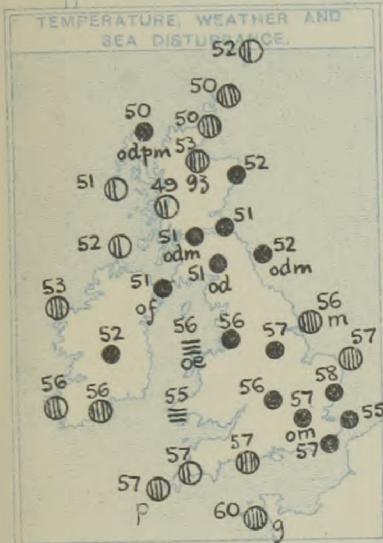
**FURTHER OUTLOOK.**



SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 7<sup>TH</sup> JULY, 1916.

GENERAL INFERENCE.


The general conditions will continue very unstable as the depression moves slowly Eastward.



EXPLANATION.





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

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

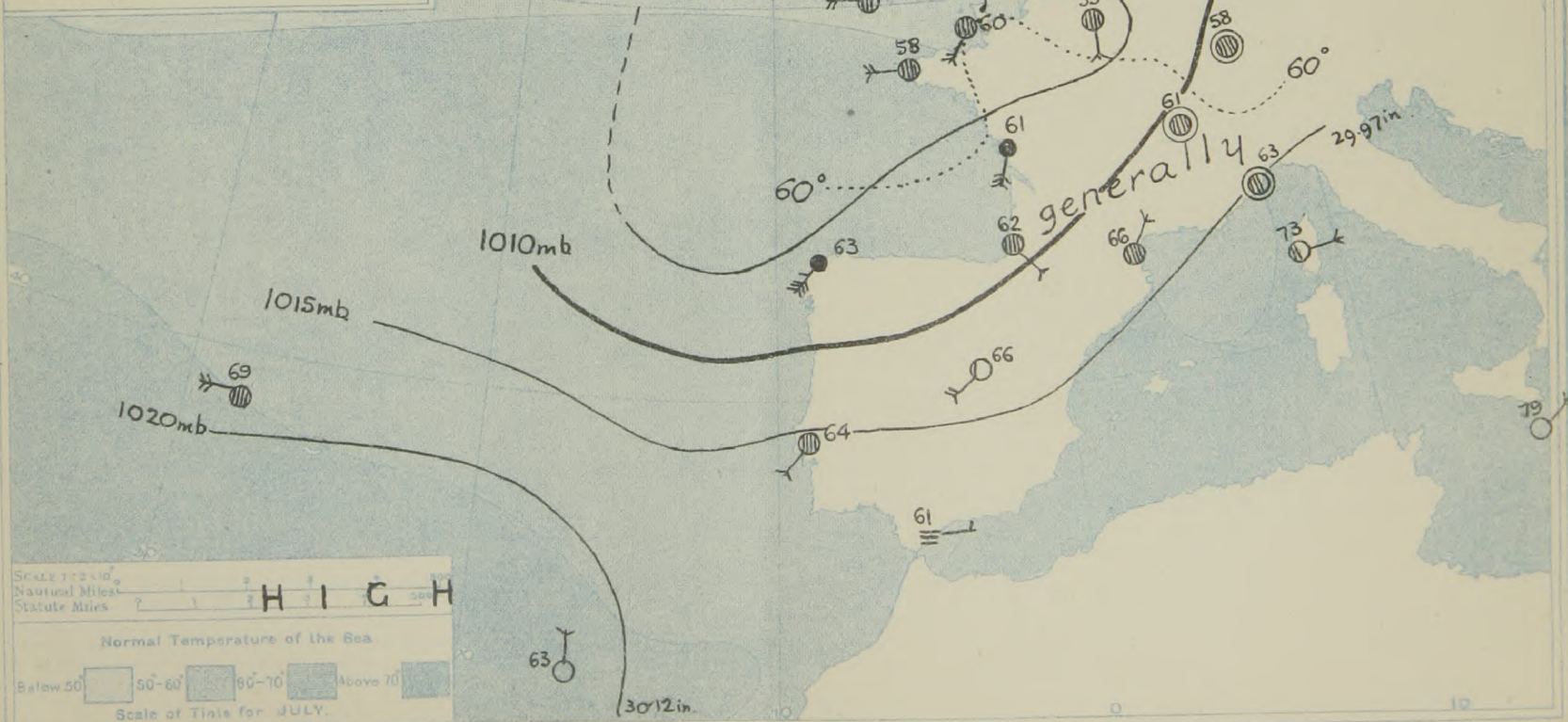
Force, on the scale 0-12, is indicated by the number of feathers. Calm 

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

**WEATHER.**—Shown by the following symbols:—  
 clear sky.     sky  $\frac{1}{2}$  clouded.     sky  $\frac{1}{2}$  clouded.

 clear sky.   
  sky  $\frac{3}{4}$  clouded.   
  overcast sky.   
  rain falling.

\*snow. ▲ hail. ≡ fog. ≡<sup>o</sup> mist. T, thunder.  
⚡ thunderstorm.

SEA DISTURBANCE.—Rough . High .



REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	5th. AT 9 P.M. LOCAL TIME					6th. AT 7 A.M. LOCAL TIME.										Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Max.	Min.						
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.									
		° F.						° F.	° F.											
Archangel ...	-	-	-	-	-	10126	0	70	0	-	0	*	c	*	-	*	63			
Gorki ...	-	-	-	-	-	10046	+1	62	-1	NNE	1	*	o	*	-	*	?			
Veliki Luki ...	10086	68	-	0	b	10066	*	66	+14	SE	2	*	o	*	-	*	59			
Hangö ...	10100	66	ENE	2	o	10057	+3	68	+5	ESE	2	*	c	*	-	*	52			
Riga ...	10042	72	ENE	2	bc	9979	+2	64	-2	ESE	3	*	r	*	-	*	61			
Petrograd ...	10115	68	E	3	o	10104	0	69	+2	SSE	3	NE	o	*	-	75	61			
Moscow ...	10128	59	NE	2	o	10128	0	63	0	ESE	2	*	b	*	-	*	54			
Kiev ...	10056	77	SE	2	bc	10015	+5	66	-2	SE	2	*	o	*	-	*	64			
Kharkov ...	10107	66	SSE	2	o	10086	-1	70	-	SE	2	*	c	*	-	*	59			
Kishinev ...	10053	86	SSW	3	b	10055	?	75	0	SE	3	*	b	*	-	*	70			
Elisabetgrad ...	10079	77	S	2	bc	10060	-4	72	+13	-	0	*	o	*	-	*	59			
Nicolaiev ...	10093	73	SSW	4	b	10069	*	75	-	S	3	*	c	*	-	*	70			
Odessa ...	10087	73	SW	4	b	?	+3	75	+2	SW	4	*	bc	*	-	*	70			
Tarkhankout ...	10124	72	S	7	b	-	-	-	-	-	-	*	-	*	-	*	-			
Soukhoun ...	10166	70	-	0	c	10151	0	70	+4	NNE	2	*	b	*	-	*	66			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 h.

STATIONS.	Sun-shine for 5th.	Rainfall		TEMPERATURE.		WEATHER.		Sun-shine to 17 h.	Hr.	STATIONS.	Sun-shine for 5th.	Rainfall		TEMPERATURE.		WEATHER.		Sun-shine to 17 h.	Hr.
		Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.					Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.		
		mm.	mm.	°F.	°F.							mm.	mm.	°F.	°F.				
Scotland.										England, E.									
Oban ...	25	1	1	58	49	ro	cb	24		Lowestoft ...	57	01	-	66	53	o.c.o	ou	11	
Banff ...	30	-	02	56	44	bc	bc p b	41		Felixstowe ...	40	02	-	65	54	om bc	bc.o	02	
Carnoustie ...	07	-	-	59	52	bc	bc	54		Walton-on-Naze ...	-	-	-	-	-	-	-	-	
St. Andrews ...	00	-	-	59	46	bc	c bc	76		Southend-on-Sea ...	32	03	-	65	54	o	o.b	02	
England, N.E.										England, S.E.									
Harrogate ...	97	-	-	59	45	o.c.o	o	02		Margate ...	29	4	-	64	55	c	c.o	00	
Skegness ...	27	-	01	61	48	mc bc	ogr	06		Ramsgate ...	49	4	-	62	53	c.o	o	14	
England, N.W.										Hastings ...	41	-	-	62	54	op.c	abc	18	
Morecambe ...	87	-	03	61	45	-	-	00		Eastbourne ...	47	-	-	63	56	o.bc	cabc.b	00	
Blackpool ...	-	-	-	-	-	-	-	-		Seaford ...	51	-	-	61	56	c	c	17	
Southport ...	79	-	-	63	46	o.c	c.o dr	01		Brighton ...	-	-	-	64	51	o	c	10	
Midlands.										Littlehampton ...	80	-	-	62	51	-	-	10	
Buxton ...	-	-	-	-	-	-	-	-		Bognor ...	102	-	-	63	52	or bc	bc.or	08	
Leamington Spa ...	43	1	1	62	52	c	or	00		Bournemouth ...	102	-	-	62	52	o	or	00	
Malvern ...	-	-	-	-	-	-	-	-		England, S.W.									
Ross-on-Wye ...	63	-	-	65	49	bc. om	c.or	01		Weymouth ...	115	-	-	63	55	o.bc	bc.or	02	
Wales.										Torquay ...	126	02	3	67	50	or	or	00	
Rhyl ...	88	-	-	63	51	o	op.c.o	00		Paignton ...	-	-	-	-	-	-	-	-	
Colwyn Bay ...	48	-	-	53	31	bc	bc.o	?		Penzance ...	104	8	12	62	55	or.c	c.or	05	
Llandudno ...	59	-	-	61	31	c	c.o.c	00		Newquay ...	100	04	6	63	54	r	r	05	
Aberystwyth ...	65	-	-	61	55	o.c	c.o	00		Bude ...	39	1	2	63	54	p	p	02	
Tenby ...	74	2	4	63	54	-	-	00		Ilfracombe ...	81	-	-	61	50	op.o	op.c.o	15	
										Weston-s-Mare ...	125	-	-	63	51	cr	nc	00	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1208 Joules.	Average Rate. 17.4 Milliwatts.	Max. Rate. 39 Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.					
				Max.	Min.											
				24 HOURS ENDED 9 h. TO-DAY												
		Hr.	F.	F.	F.	mm.				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obsy.) ...	73	97	1.1	86	56	55	8	0	0	0.00r						
City (Bunhill Row) ...	*	*	04	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	68	93	05.	65	57	57	9	0	0	0.00r	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	63	91	03	65	66	55	9	0	0	0.00r	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	99	08	60	54	44	10.	0.	0	0.00r	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	90	07	63	57	55	8	0.	0	0.00r	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	05.	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	07	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																

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

7th, 8th July, 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 8.40 8.41	G.M.T. 12.38 12.39	G.M.T. 8.15 8.16
Greenwich ...	8.53 8.54	12.5 12.5	8.4 8.16
Wick ...	8.19 8.20	12.17 12.17	9.14 9.13
Valencia ...	4.31 4.32	12.46 12.46	8.39 8.39

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° in nearly all parts of the Kingdom. Rain fell very generally, rather heavily in places, and very little bright sunshine was recorded except at Malin Head and St. Andrews.

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; i, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r, rain; s, snow; t, thunder; u, ugly, threatening sky; v, visibility, unusual transparency; w, dew; x, hoar frost; z, dust-haze, or smoke.

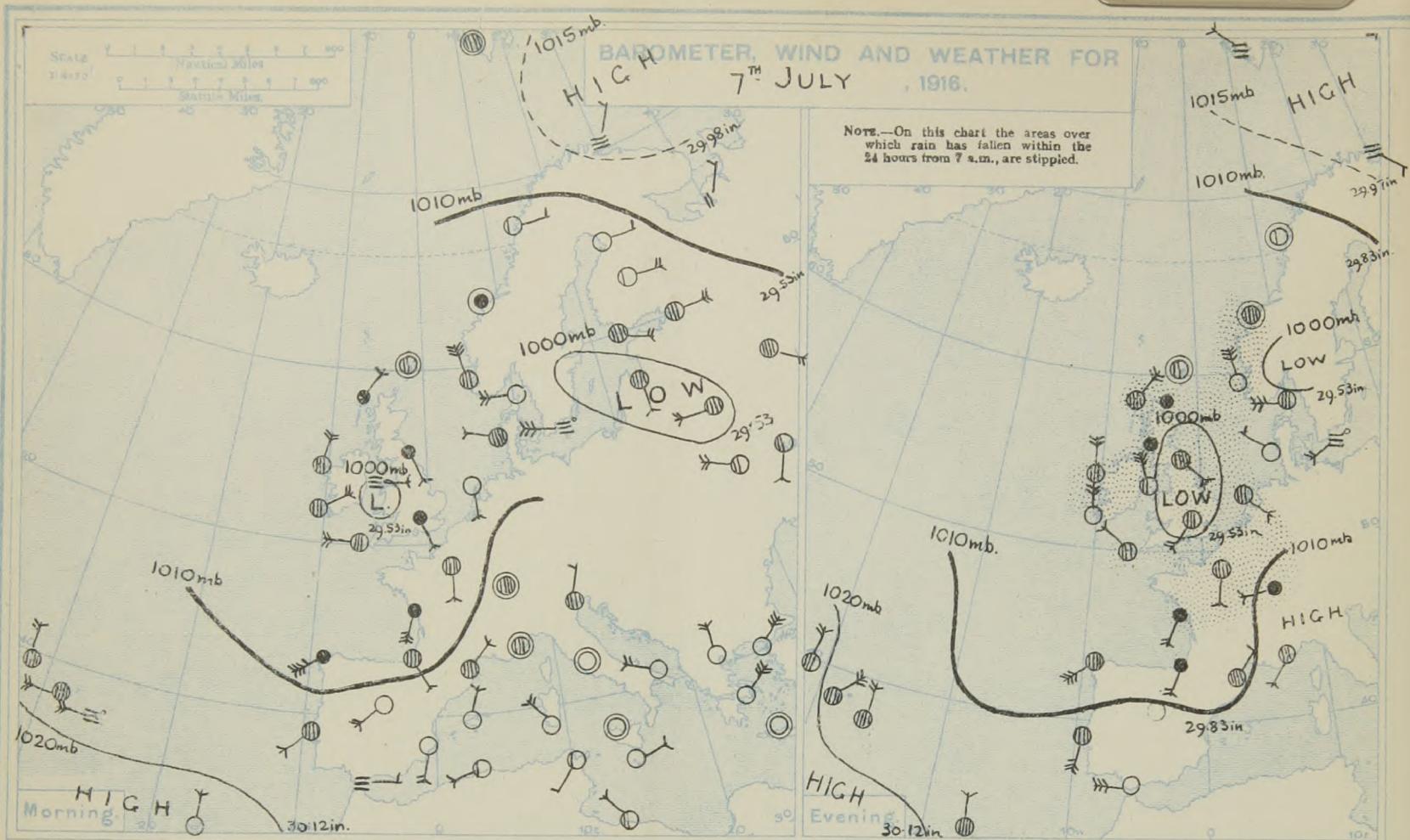
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 190. Saturday, 8<sup>th</sup> July

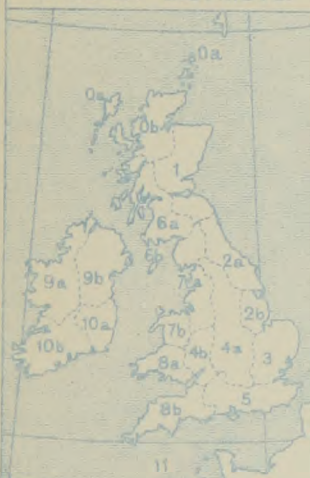
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS							Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. °F.	Change in 24 hours.	WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	1007.7	54	-	0	bc	1006.6	-1	50	-2	NE	2	-	om	2	-	56	46	bc	bc	bcm	*	
	Deerness (Orkney) ...	1006.4	51	E	3	o	1005.1	*	51	+1	NE	4	Sw	bc	3	2	56	48	o.c	c.o	a.c.bc	4.2	
	Stornoway ...	1005.2	55	NE	4	aq	1005.1	0	49	-1	NE	2	-	or	4	11	59	48	o.bc	bc.oq	or	7.0	
	Castlebay (Barra Isd.) ...	1004.4	54	NNW	4	bc	1003.2	0	51	0	NNW	4	-	op	4	-	57	49	bc.b	bc	bc.op	11.4	
	Glasgow ...	1000.6	52	SW	1	rm	999.4	0	51	0	WNW	1	-	omg	*	21	53	49	rm.orm	rm	rm.orm	0.0	
	Eskdalemuir ...	999.4	54	N	1	r	998.9	+1	52	+1	-	0	-	o	*	54	59	49	od.aor	or	ormod	0.0	
	Malin Head ...	1003.1	54	N	6	bc	1002.4	0	52	0	N	6	N	bcq	6	-	55	50	bc	bc	bcq	13.8	
	Blacksod Point ...	1007.3	54	N	4	cv	1007.0	0	52	-1	NW	4	N	bc	3	1	58	47	cv	cv	cqcp	*	
	Valencia ...	1006.1	59	N	4	b	1009.4	+1	54	-2	NW	3	W	c	3	-	62	52	c.bc	bc	bc.c.o	10.3	
	Roche's Point ...	1003.8	63	N	2	bc	1008.1	*	54	-2	N	2	N	bc	1	Trace	66	49	c.bc	bc	b.bc	*	
	Birr Castle ...	1002.8	62	NW	2	c	1006.5	*	52	0	W	3	W	c	*	-	64	45	o.c	c	c	8.0	
	Donaghadee ...	1001.5	55	NNW	4	mq	1002.0	+1	53	+2	NW	4	NW	bcmq	4	0.4	56	50	cm	cm	cm.bcm	*	
	Liverpool (Bidston) ...	998.6	57	WNW	2	r	1001.5	+2	52	-4	W	5	W	aq	4	7	62	50	o	r	aq	0.0	
	Holyhead ...	1000.3	56	NNW	6	bef	1003.2	+1	52	-4	WNW	5	-	bq	5	Trace	59	51	of.d.o	f.bc	o.c.beb	0.7	
	Pembroke (St. Ann's) ...	1001.7	56	N	3	c	1006.1	+2	53	-2	NNW	3	N	bc	2	-	60	50	f.cm	f.cm	c.bc	2.4	
	Scilly (St. Mary's) ...	1002.6	60	NW	2	c	1007.2	+2	56	-1	N	3	N	bc	4	0.1	64	53	c	bc.c	c.bc.c	7.1	
	Falmouth ...	1002.3	62	NNW	3	b	1006.6	+3	57	0	N	3	-	c	*	Trace	66	53	od.c.bc	bc.b	c.bcw	9.8	
	Jersey (St. Aubin) ...	1002.5	61	SW	4	aq	1004.1	*	58	-2	NW	3	-	og	2	3	64	55	o.c.b	bc.og	ogb.og	4.7	
	Portland Bill ...	1000.7	58	SW	5	bq	1003.5	+2	57	0	NW	4	-	b	3	-	59	54	bc	bc	bcb	*	
	Dungeness ...	1001.4	58	SW	4	c	1002.3	+2	57	0	WSW	1	-	o	1	5	62	54	or.c	c.o.c	c.o	*	
	Dover ...	*	*	*	*	*	1002.2	+2	59	+4	SW	1	Sw	bc	3	5	63	54	*	*	or.bc	5.1	
Wick ...	1005.9	50	ENE	2	r	1004.5	-1	51	+1	NE	2	-	c	3	3	51	50	omg	of.d	omr.om	*		
Nairn ...	1003.6	50	ENE	2	or	1003.1	*	50	-3	E	3	-	oud	3	42	53	49	r.o	rg.o	rg	0.0		
Aberdeen ...	1003.6	51	E	4	o	1002.6	0	52	0	NE	4	-	o	3	21	53	49	or	or.o	or	0.0		
Leith ...	999.5	54	E	1	r	998.6	0	53	+2	E	1	-	r	3	69	55	51	r	r	r	*		
Tynemouth ...	999.9	53	SE	3	om	998.0	-2	55	+3	NW	2	W	cm	3	9	55	52	ogm	om	cmr	0.5		
Spurn Head ...	998.8	57	SE	5	c	998.6	0	57	+1	WNW	4	-	o	4	0.4	68	54	or	or.c	og.c	*		
Yarmouth ...	1000.2	58	S	4	bc	1000.8	+2	58	+1	WNW	3	-	bcm	2	5	59	56	omr	omr.bc	bc.cm	?		
Clacton-on-Sea ...	999.6	61	SSW	4	bc	1001.4	+1	60	+2	WSW	3	W	c	2	4	64	56	or	o.ct.bc	bc.c	5.2		
Nottingham ...	997.6	63	SSE	1	bc	1001.1	*	55	-2	W	3	W	cm	*	5	67	53	r.o	o.c.bc	cp.o	2.1		
Benson (Oxon.) ...	998.7	64	SW	4	c	1002.8	+3	55	-1	WNW	2	-	o	*	8	68	52	pt.bc	p.bc	p.bc.o	*		
Sth Farnborough ...	999.4	65	SW	3	o	1002.2	+2	58	+1	WNW	3	-	o	*	0.3	70	51	cp	tp.c	o.c	4.3		
London (Kew Obs.) ...	999.3	66	SW	3	c	1002.4	+2	57	0	WNW	2	-	o	*	9	68	55	omr.or.o	o.ct.c	obc.c.o	2.4		
NORTHERN EUROPE.	Spitsbergen ...	1015.1	36	NW	2	f	1015.4	+1	34	-2	-	0	*	o	*	39	34	-	-	-	-		
	Vardö ...	1016.0	45	SE	1	f	1013.3	-1	48	0	NNE	2	-	f	2	*	48	43	-	-	-	-	
	Bodö ...	1006.7	75	-	0	b	1006.3	0	72	+2	E	1	-	b	1	-	79	57	-	-	-	-	
	Christiansund ...	1004.0	54	-	0	o	999.8	-2	54	0	-	0	-	o	2	6	55	54	-	-	-	-	
	Skudesnaes ...	1001.6	57	NNW	6	b	999.9	0	55	+1	WNW	3	-	r	3	1	57	52	-	-	-	-	
	Færder (Xtania Fjord) ...	1001.9	61	W	5	c	1001.9	+1	55	-2	SW	3	-	b	3	-	57	54	-	-	-	-	
	The Scaw (Skagen) ...	1005.6	61	NW	1	b	1003.1	-1	52	-3	ESE	1	Sw	c	1	-	61	45	-	-	-	-	
	Blaavands Huk ...	1004.8	65	W	2	c	1004.7	+1	61	+4	WSW	1	-	o	*	-	66	55	-	-	-	-	
	Copenhagen ...	1005.6	57	WSW	3	m	1005.9	+1	59	+5	-	0	-	m	0	-	61	54	-	-	-	-	
	Bornholm ...	1005.6	57	WSW	3	m	1005.9	+1	59	+5	-	0	-	m	0	-	61	54	-	-	-	-	
FRANCE, &c.	The Helder ...	1003.0	59	SE	2	c	1000.8	0	57	0	SSW	3	-	o	2	1	64	52	-	-	-	-	
	C. Gris Nez ...	1002.4	58	S	4	b	1002.3	+1	56	0	WSW	4	*	o	3	6	66	55	-	-	-	-	
	La Hève ...	1002.9	59	S	1	o	1000.7	*	59	+1	NNW	3	*	o	2	8	66	55	-	-	-	-	
	Brest (St. Mathieu) ...	1001.9	59	NE	1	o	1007.0	+4	59	+1	N	2	*	m	5	-	66	55	-	-	-	-	
	Rochefort (Ile d'Atx) ...	1006.1	63	S	3	r	1005.9	+3	63	+2	SSW	5	*	o	*	10	66	58	-	-	-	-	
	Biarritz ...	1007.4	72	SSW	3	r	1009.3	+3	68	+6	NNE	2	*	o	4	-	73	62	-	-	-	-	
	Paris ...	1004.0	64	SSW	3	o	1003.0	0	63	+4	SSW	3	-	o	*	13	70	59	-	-	-	-	
	Belfort ...	1010.6	59	WSW	2	r	1010.7	*	60	+2	-	0	*	c	*	7	65	58	-	-	-	-	
	Lyons ...	1010.9	61	NNE	2	r	1010.6	*	63	+2	SSW	3	*	o	*	5	69	60	-	-	-	-	
	Nice ...	1013.1	64	SW	2	c	1013.2	+1	68	+5	-	0	*	bc	0	-	73	55	-	-	-	-	
SOUTHERN STATIONS.	Perpignan ...	1009.0	73	NE	1	o	1011.1	+1	70	+4	NE	1	-	o	*	-	77	63	-	-	-	-	
	Sanguinaire ...	*	69	W	2	b	*	*	71	-2	E	3	*	b	1	-	79	61	-	-	-	-	
	Corunna ...	1005.7	70	SW	6	o	1008.7	+2	64	+1	SW	2	-	o	2	1	70	59	-	-	-	-	
	Madrid ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	
	Lisbon ...	1014.6	66	SSW	5	o	1016.6	0	64	0	SW	4	-	r	5	8	70	64	-	-	-	-	
	Azores ...	1019.5	*	NNE	4	o	1021.7	0	65	-4	N	4	*	bc	2	-	75	63	-	-	-	-	
	Madeira ...	1019.9	68	N	2	o	1017.1	0	64	+1	N	2	-	b	2	-	70	63	-	-	-	-	
	Gibraltar ...	1013.5	73	W	6	b	1012.8	*	69	+8	NNW	5	*	b	2	-	85	60	-	-	-	-	
	Malta ...	*	*	*	*	*	1015.4	+1	81	+2	-	0	-	b	0	-	82	72	-	-	-	-	
	Limassol ...	*	*	*	*	*	1007.1	+2	88	-3	W	2	-										





### FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | North-Easterly and Northerly winds, moderate; rain at times; cool.  |
| 1  | b |   |   |
| 2  | a | } | North-Westerly winds, moderate or light; mostly fair, some showers, thunder locally; cool.                                      |
| 3  | b |   |   |
| 4  | a | } | Wind between North and North-West, moderate or light generally, fresh locally; variable sky, some showers; local thunder; cool. |
| 5  | b |   |   |
| 6  | a | } | Northerly to North-Westerly winds, moderate; sea moderate or slight; fair generally, some showers.                              |
| 7  | b |   |   |
| 8  | a | } |   |
| 9  | b |   |   |
| 10 | a | } |   |
| 11 | b |   |   |

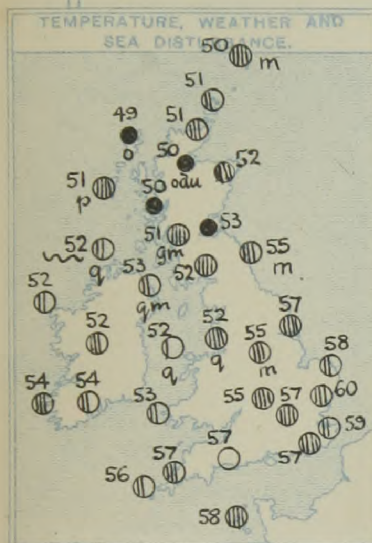
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 8<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The depression over the North Sea will probably continue to move slowly Eastward 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:—

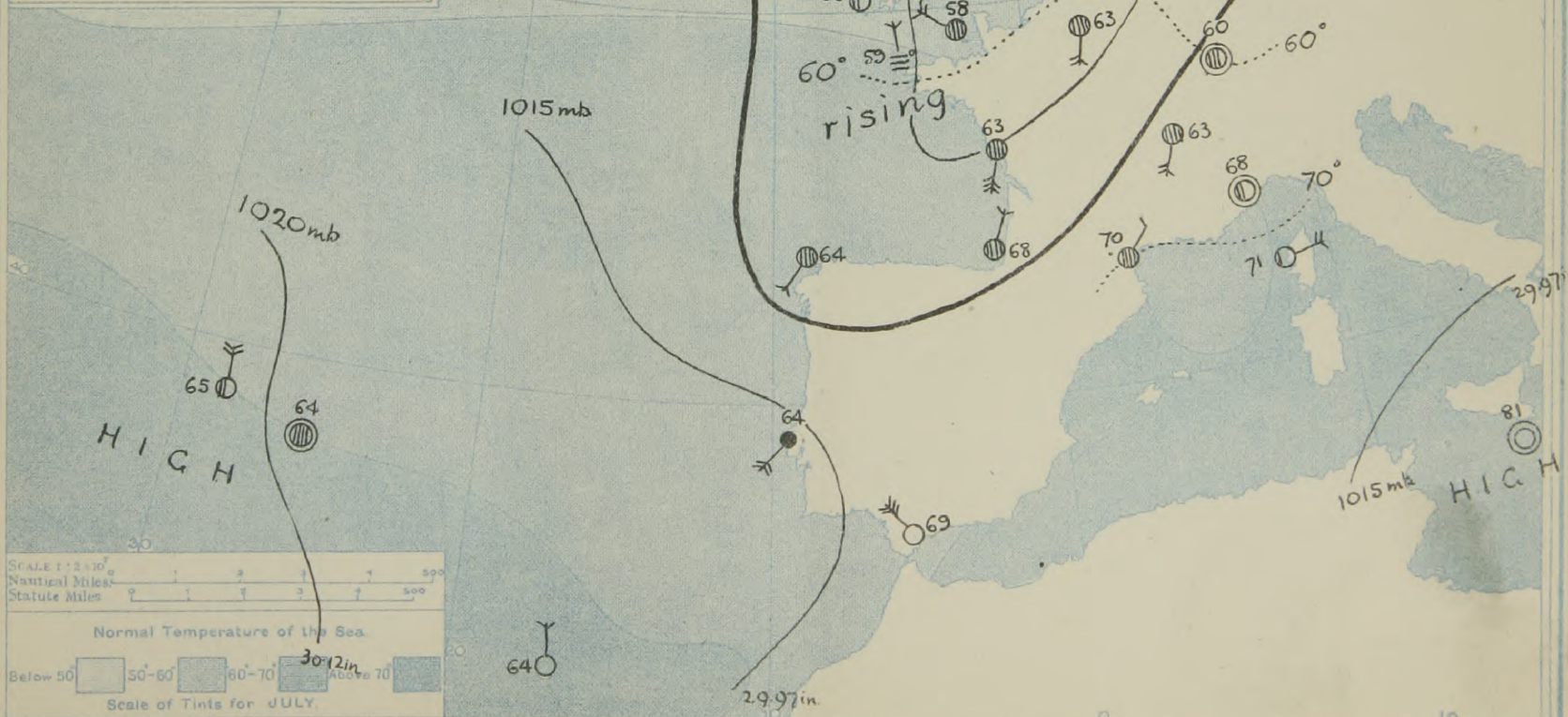
○ clear sky. ○ sky & clouded. ○ sky & clouded.

○ sky & clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	6 <sup>th</sup> AT 9 P.M. LOCAL TIME					7 <sup>th</sup> AT 7 A.M. LOCAL TIME.							Weather.	Sea 0-9.	Rain- fall. -Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.				Max.	Min
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.						
Archangel ...	1012.0	68	SSW	3	0	1012.4	0	68	-2	NE	1	*	bc	*	-	*	61
Gorki ...	1001.6	68	SE	1	0	998.7	-5	59	-4	W	3	*	0	*	5	*	59
Veliki Luki ...						1001.0	*	64	-2	S	6	*	0	*	6	*	?
Hangö ...	1000.8	68	ESE	6	0	?	0	63	-5	ESE	3	*	0	*	-	*	41
Riga ...	996.8	66	SSE	1	0	997.9	+1	59	-5	S	2	*	0	*	1	*	59
Petrograd ...	1006.9	72	E	3	bc	1005.5	0	68	0	E	4	NW	c	*	-	*	63
Moscow ...	1010.1	66	ESE	2	0	1008.4	0	66	+3	SE	3	*	0	*	-	*	63
Kiev ...	1002.7	65	WNW	2	0	1007.3	+3	63	-3	WNW	4	*	bc	*	4	*	59
Kharkov ...	1005.9	68	SE	2	0	1004.6	-1	72	+2	SSW	2	*	bc	*	-	*	64
Kishinev ...												*		*		*	
Elisabetgrad ...												*		*		*	
Nicolaiev ...												*		*		*	
Odessa ...												*		*		*	
Tarkhankout ...												*		*		*	
Soukhoum ...												*		*		*	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 17h.	Rainfall		TEMPERATURE		WEATHER		Sun- shine for 17h.	STATIONS.	Sun- shine for 17h.	Rainfall		TEMPERATURE		WEATHER		Sun- shine for 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, N.E.								
Oban ...	5.1	-	-	59	46	bc	0	0.6	Lowestoft ...	1.1	2	5	61	56	no r	no c bc.	1.4
Banff ...	4.1	0.2	8	53	48	bc or	0	0.5	Felixstowe ...	0.4	2	6	63	57	or	or bc.	2.5
Carnoustie ...	4	0	0	52	50	r	r	0.0	Walton-on-Naze ...								
St. Andrews ...	8.7	13	7	53	50	p or	sup	0.0	Southend-on-Sea ...	0.2	1	1	68	56	d	o c bc.	2.3
Eng. N.E.									England, S.E.								
Harrogate ...	0.2	5	3	62	52	or	r bc c	1.3	Margate ...	0.0	5	2	68	56	c	bc.	3.7
Skegness ...	0.6	1	2	61	55	ogp	p out	1.4	Ramsgate ...	1.4	9	8	65	53	no	o c.	3.4
Eng. N.W.									Hastings ...	0	0	0	64	56	or bc	bc.	3.4
Morecambe ...	0.0	3	6	61	54			0.0	Eastbourne ...	0.0	1	1	63	56	og bc.	c bc o.	3.7
Blackpool ...									Seaford ...	5.1	*	*	?	56	no	c	2.9
Southport ...	0.0	2	0.1	62	54	or o	d r	0.0	Brighton ...								
Midlands.									Worthing ...	1.2	7	-	64	57	o c	bc.	3.7
Buxton ...									Littlehampton ...								
Leamington Spa ...	0.0	11	5	65	58	or	ep bc	0.9	Bognor ...	10.2	6	16	63	56	o bc	bc	6.3
Malvern ...	0	18	6	65	54	no c	c bc	0.5	Bournemouth ...	*	*	*	66	56	no c	bc	7.5
Ross-on-Wye ...	0.1	11	0.3	71	55	or c	c bf	2.3	England, S.W.								
Wales.									Weymouth ...	*	*	*	66	56	og b	b bc.	8.7
Rhyl ...	0.0	4	3	69	54	ep c	p o c	0.0	Torquay ...	0.0	9	-	66	56	o c	c o.	5.2
Colwyn Bay ...	0	*	*	62	55	rc	p bc o	0.1	Paignton ...								
Llandudno ...	0	*	*	61	56	c	c	0.1	Penzance ...	0.5	7	-	65	56	c	o c b.	6.0
Aberystwyth ...	0	*	*	60	56	no c	c o	1.0	Newquay ...	0.5	9	-	62	52	bc	b	6.7
Tenby ...	0.0	15	-	67	58			6.0	Bude ...	0.2	9	-	65	56	b	b	9.4
									Ilfracombe ...	*	*	*	62	53	bc	bc c	4.0
									Weston-s-Mare ...	0.0	6	-	65	54	c bc b	b	7.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1056 Joules.	17.9 Milliwatts.	89. Milliwatts.			
				Mas.	Min.											
24 HOURS ENDED 9 h. TO-DAY											Hours of Observation G.M.T.					
%	%	Hr.	F.	F.	F.	mm.				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obsy.) ...	92	79	4.3	70	55	50	12	or o.	all p o	o c.						
City (Bunhill Row) ...	*	*	2.2	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	81	84	5.5	68	56	53	6	or o	o o r o	o.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	89	76	2.6	71	54	52	18	all p o	g l o r c	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	83	3.0	67	52	42	6	or o	o p l c	c o.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	76	2.9	68	55	53	5	no	o p l c	o c.	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	'	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	2.4	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																

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

8 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	3.41	11.58	8.45
Greenwich ...	3.56	12.5	8.16
Wick ...	3.20	12.17	9.13
Valencia ...	4.32	12.46	8.59

## NOTES ON YESTERDAY'S WEATHER.

Persistent rain fell with the East and North-East winds in Scotland, the quantity being very heavy; as much as 69 mm. at Leith. Showers fell in most other regions, with local thunderstorms in the South-East of England. Temperature was low for the time of year generally.

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

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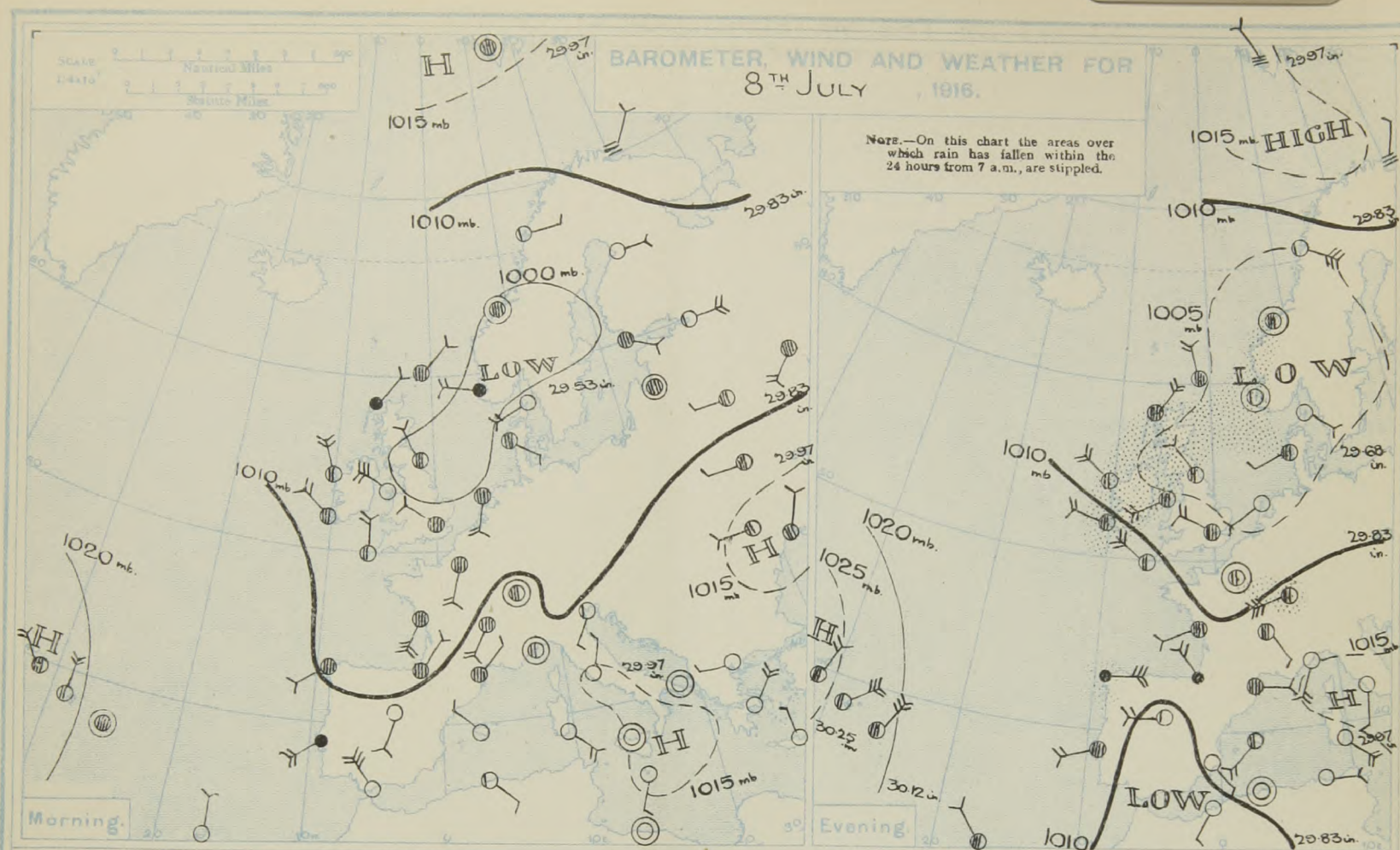


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 191.

Sunday  
9th July

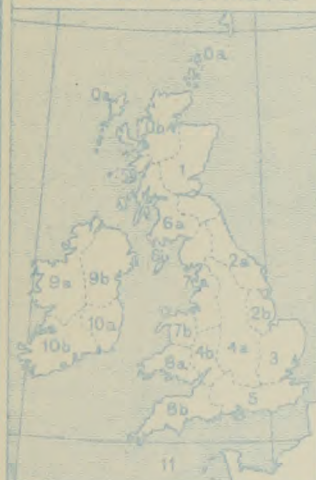
STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day Hours.	
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	1005.3	51	NNW	3	o	1003.7	0	50	0	-	0	-	c	0	-	54	47	om	o.	o.c.	*	
Deerness (Orkney) ...	1004.0	50	N	3	o	1003.0	0	49	-2	W	2	-	o	1	1	55	48	bc.c.o	o	o.p.o	4.0	
Stornoway ...	1005.6	52	NE	4	o	1004.0	-1	51	+2	W	3	-	o	3	3	54	48	or.o	o.	o.	0.0	
Castlebay (Barra Isd.) ...	1005.2	51	NNE	3	r	1006.0	0	51	0	NW	2	-	o	3	16	51	48	sp.r	r	r.o	0.0	
Glasgow ...	1003.5	49	ESE	2	omd	1004.9	+2	49	-2	W	1	-	omr	*	9	51	43	omr	omdp	omr.or	0.0	
Eskdalemuir ...	1002.3	51	NE	1	og	1004.8	+1	49	-3	SW	2	-	o	*	3	56	46	o	o	o.p.adm	0.1	
Malin Head ...	1003.8	51	NNW	5	cmg	1006.2	+2	50	-2	NW	3	-	omr	2	6	54	48	zpp	cmg	omr	2.4	
Blackod Point ...	1008.7	53	NW	4	bc	1009.9	+1	52	0	WNW	3	NW	bc	2	2	57	48	bc	bc.	bc.bep	*	
Valencia ...	1010.7	58	WNW	3	c	1012.3	+1	54	0	W	3	W	c	3	1	59	52	c.bop	bc.p.c.	c.o.c	6.2	
ROCHE'S POINT.																						
Roches Point ...	1010.0	59	NNW	3	bc	1012.5	0	54	0	WNW	2	-	o	2	1	62	51	cp	cp.c.bc	bc.b.o	*	
Birr Castle ...	1007.1	56	WNW	2	c	1010.3	0	53	+1	W	2	-	o	*	3	60	48	cp	cp	o.c	6.1	
Donaghadee ...	1004.1	54	NW	4	cmg	1006.5	+3	50	-3	WNW	4	-	omr	3	2	58	50	cmg	cmg	eg.ogm	*	
Liverpool (Bldston) ...	1006.1	58	WSW	4	b	1008.0	+2	52	0	WSW	3	W	bc	3	1	60	51	c.b	b	bep	7.6	
Holyhead ...	1005.6	55	WSW	4	cm	1008.7	+2	54	+2	W	6	W	bcg	5	Trace	61	51	b.bc	b.bc cm	cp.c.bc	11.2	
Pembroke (St Ann's) ...	1008.6	57	W	4	b	1012.6	+1	55	+2	W	3	NW	c	2	-	58	52	bc	bc.b	bc.c	14.0	
SCILLY (St. Mary's).																						
Scilly (St. Mary's) ...	1010.8	60	WNW	4	bc	1013.7	+1	55	-1	W	3	W	cv	3	-	62	54	bc	bc	bc.cu	13.5	
Falmouth ...	1010.1	60	NW	2	b	1013.0	+2	56	-2	SW	2	-	b	*	-	62	51	bc	bc.b.	b.bc.b.	14.0	
Jersey (St. Aubin) ...	1009.3	62	WNW	3	b	1014.2	0	58	0	W	3	W	b	3	-	65	51	og.b	ta	b	14.0	
Portland Bill ...	1007.0	60	W	4	bc	1012.4	+3	56	-1	W	3	W	c	3	-	62	54	b.bc	bc.	bc.c	*	
Dungeness ...	1005.4	60	SW	3	b	1012.0	+4	57	0	SW	5	SW	b.	4	-	64	47	o.c.bc	bc.b.	bc.	*	
Dover ...	1004.2	50	NE	2	o	1004.0	+1	49	-2	SW	3	-	b	4	-	65	49	bc.b	bc.c	c.b.	7.7	
Wick ...	1004.2	50	NE	2	o	1004.0	+1	49	-2	NNW	1	-	r	2	1	53	47	c	c.o	omd	*	
Nairn ...	1004.1	52	E	1	og	1003.5	0	51	+1	-	0	-	cg	1	2	56	48	d.o.c	c.bog.o	du.o	2.7	
Aberdeen ...	1003.0	53	NE	3	o	1003.6	+1	50	-2	NNW	1	-	cg	2	3	57	49	o.c	c.o.	or	0.4	
Leith ...	1002.5	51	E	2	r	1004.2	0	52	-1	W	1	W	c	3	17	58	48	r	r	r.o.c	*	
Tynemouth ...	1002.0	59	NW	2	bc	1004.8	+2	52	-3	NNW	2	W	cm	2	1	63	50	cm	bc.	cm	*	
Spurn Head ...	1002.9	61	NW	5	c	1008.3	+1	53	-4	W	4	-	bc	4	-	63	53	bc	bc.	bc.	6.1	
Yarmouth ...	1004.9	64	WNW	2	bc	1009.8	+2	55	-3	NW	2	-	b	2	-	67	50	bc	bc.	bc.b	9.6	
Clacton-on-Sea ...	1005.2	66	WNW	2	bc	1010.8	+4	58	-2	WSW	3	-	b	2	-	67	49	c.bc.c	c.bc	bc.b.	10.7	
Nottingham ...	1005.1	60	W	4	b	1009.3	0	55	0	W	2	W	b	*	-	63	46	o.c	c.b.	bc.c	5.5	
Benson (Oxon.) ...	1005.9	63	WNW	3	b	1011.1	+3	54	-1	SW	2	-	bc	*	-	65	43	bc	bc.	b.	*	
Stn Farnborough ...	1005.9	65	WNW	3	c	1011.5	+2	57	-1	WSW	2	W	bc	*	Trace	69	44	o.bc	bc.c	c.bc.c	9.9	
London (Kew Obsy.) ...	1005.9	66	WNW	3	o	1011.9	+3	56	-1	SW	3	W	b.p	*	-	69	49	o.c	c.o	o.bc.c	8.0	
NORTHERN EUROPE.																						
Spitsbergen ...	1016.3	36	NNW	2	f	1017.1	0	36	-1	N	2	*	f	*	*	37	32					
Vardö ...	1014.6	45	NNE	1	f	1015.8	+1	43	-5	NNE	2	-	o	3	*	48	43					
Bodö ...	1004.8	77	ESE	6	b	1006.0	0	75	+3	E	2	-	b	2	-	79	64					
Christiansund ...	1001.0	59	-	0	c	1003.8	+2	57	+3	-	0	-	o	1	1	61	54					
Skudesnaes ...	1002.3	52	-	0	b	1001.7	0	55	0	E	2	-	r	1	4	59	52					
Færder (Xtaniafjord) ...	1003.7	61	SE	2	b	1004.6	+1	59	+4	S	1	SW	bc	1	-	63	55					
The Scaw (Skagen) ...	1003.3	63	SW	1	c	1006.4	+1	57	+5	WSW	2	-	c	2	1	70	55					
Blauvands Huk ...	1005.3	64	S	3	o	1006.4	0	61	0	-	0	-	o	*	-	68	59					
Copenhagen ...	1007.0	59	ESE	2	m	1007.1	0	61	+2	ESE	1	W	m	0	-	62	57					
Bornholm ...	1004.2	61	WSW	2	b	1008.6	+2	59	+2	W	1	-	b	1	-	62	50					
The Helder ...	1006.5	59	SW	4	b	1011.4	+5	55	-1	SW	5	*	bc	4	-	64	55					
C. Gris Nez ...	1007.1	60	NW	4	b	1013.9	0	57	-2	W	3	*	bc	3	-	66	54					
La Hève ...	1009.1	59	NNW	4	bc	1012.3	+2	61	+2	WNW	2	*	b	3	-	63	55					
Brest (St. Mathieu) ...	1010.7	61	WSW	2	o	1015.4	+2	59	-4	W	2	*	c	*	-	68	57					
Rochefort (Ile d' Aix) ...	1012.4	64	NW	3	r	1014.9	+1	62	-4	-	0	*	o	2	-	70	63					
Biarritz ...	1007.5	64	-	0	o	1014.7	+4	59	-4	-	0	-	c	*	13	73	52					
Paris ...	1010.6	72	WSW	6	c	1016.4	0	57	-3	-	0	*	r	*	21	76	56					
Belfort ...	1011.8	72	-	0	c	1016.2	0	66	+3	-	0	*	o	*	-	75	64					
Lyons ...	1015.0	66	SW	3	b	1015.3	0	71	+3	-	0	-	c	0	-	73	57					
Nice ...	1012.0	70	E	2	o	1014.6	+2	70	0	E	2	NE	o	*	Trace	77	66					
Perpignan ...	1012.0	70	E	2	o	1014.6	+2	70	0	E	2	NE	o	*	Trace	77	66					
Sanguinaire ...	1012.0	70	E	2	o	1014.6	+2	70	0	E	2	NE	o	*	Trace	77	66					
FRANCE, &c.																						
Corunna A. ...	1012.2	61	-	0	r	1016.2	+2	61	-3	NNW	2	-	o	3	3	68	59					
Madrid ...	1009.7	81	W	3	bc	1012.0	+2	66	-4	-	0	S	c	*	-	84	59					
Lisbon ...	1014.1	68	WSW	3	c	1015.7	0	63	-1	NW	3	-	b	5	Trace	70	61					
Azores ...	1023.4	0	NNE	5	bc.	1025.2	+2	65	0	NNE	2	*	bc	2	-	73	63					
Madeira ...	1015.8	72	NW	2	c	1017.0	0	68	+4	NE	2	-	bc	2	-	72	68					
Gibraltar ...	1015.8	72	NW	2	c	1017.0	0	68	+4	NE	2	-	bc	2	-	72	68					
Malta ...	1015.8	72	NW	2	c	1017.0	0	68	+4	NE	2	-	bc	2	-	72	68					
Limassol ...	1015.8	72	NW	2	c	1017.0	0	68	+4	NE	2	-	bc	2	-	72	68					
Alexandria ...	1010.1	79	NNW	3	b	1010.7	0	79	0	NNW	4	-	b	2	-	88	75					
Cairo (Helwan) ...	1008.8	93	N	3	b	1009.9	+2	77	-4	NNW	1	-	b	*	-	102	70					
SOUTHERN STATIONS.																						
Venice ...	1009.6	75	SSW	1	o	1011.4	0	73	+3	SW	1	NW	b	3								





# FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

## FORECAST DISTRICTS.



## STORM WARNINGS.

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

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

No  
Warnings  
Issued.

Western Channel and Bay 11

Light winds between West and North-West or variable; much cloud, some rain and mist; cool.

Wind mainly Westerly, light or moderate; fair generally; rather cool.

Wind light or moderate from some Westerly point; fair generally; moderate or rather low temperature.

Wind West or North-West, moderate; changeable, some showers; fair intervals; cool.

Same as Nos. 3 to 5.

Same as Nos. 6 and 7a.

Light or moderate Westerly winds; mostly fair. cool.

Light or moderate Westerly winds; sea slight; fair generally.

## FURTHER OUTLOOK.

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

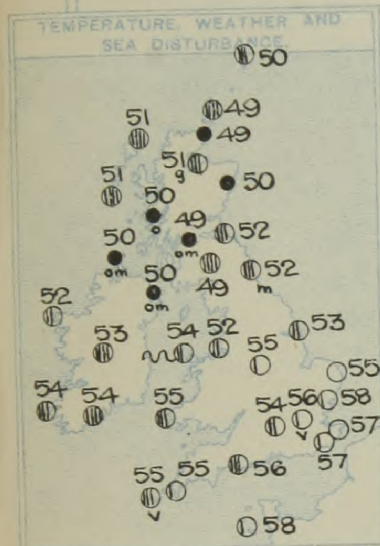
NAPIER SHAW, Director



# SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 9<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The increase of pressure over the United Kingdom and its neighbourhood appears likely to continue for a time.



## EXPLANATION.

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

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

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

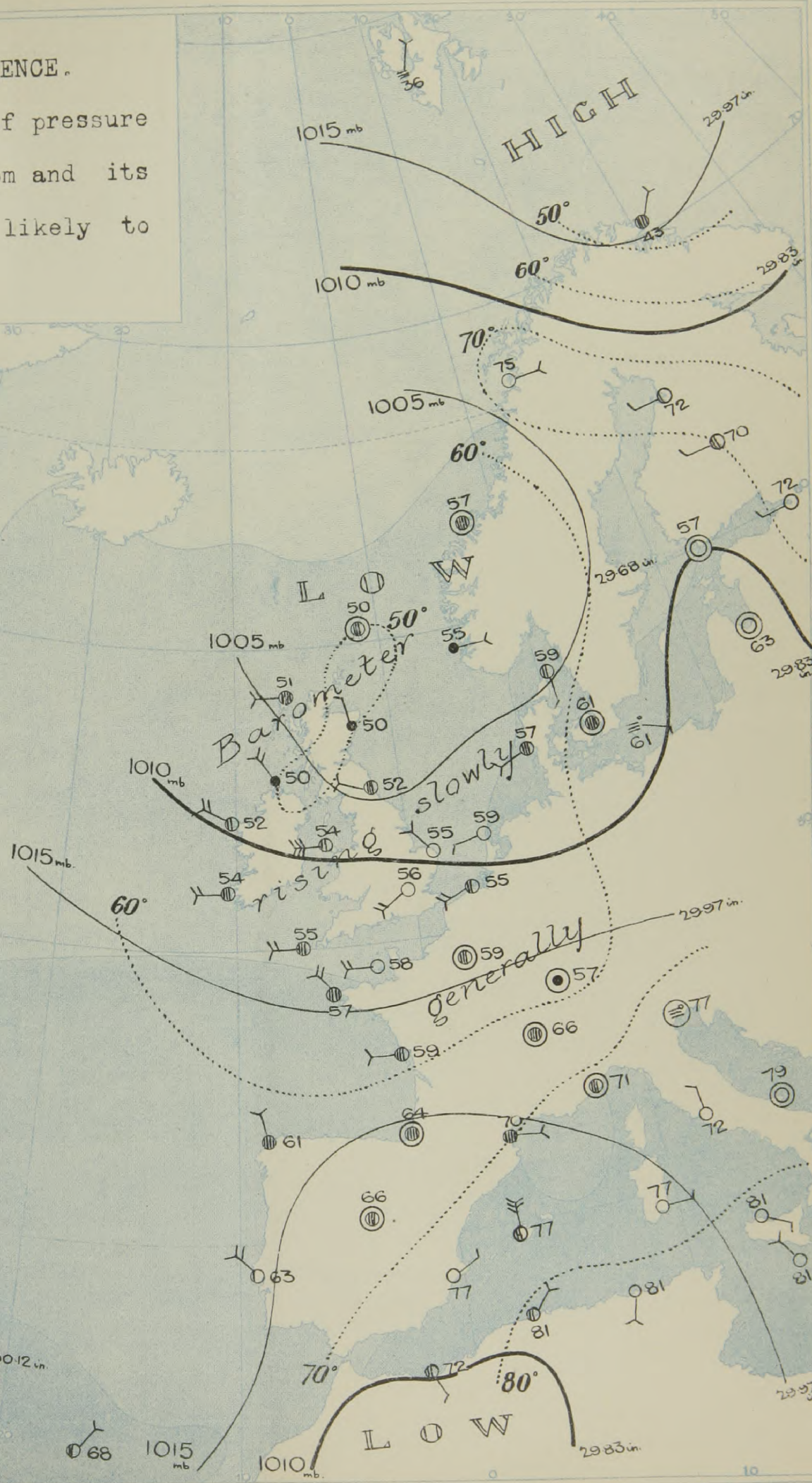
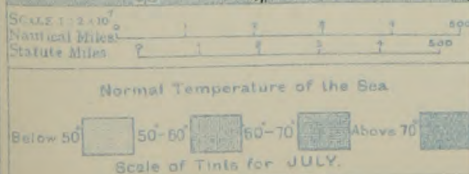
**WEATHER.**—Shown by the following symbols:—  
☉ clear sky. ☉ sky & clouded. ☉ sky & rain falling.  
☉ sky & overcast sky. ☉ rain falling.  
✱ snow. ▲ hail. ☉ fog. ☉ mist. T, thunder.  
☉ thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ————

Inches  
— 31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

Archangel ...	...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 7 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.	STATIONS.	Sun- shine for 7 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.
		Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.				Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
Oban ...	1.5	4	9	54	49	r	a	0.0	Lowestoft ...								
Banff ...	0.5	-	-	?	?	bc	bc	2.7	Felixstowe ...	4.4	-	-	67	55	bc	bc	9.5
Carnoustie ...	0.0	*	*	51	49	r	r	0.0	Walton-on-Naze ...		-	-	65	54	bc	bc	10.4
St. Andrews ...									Southend-on-Sea ...	3.0	-	-	69	55	bc	bc	5.0
Eng. N.E.									England, S.E.								
Harrogate ...	1.3	-	-	61	51	bc	bc	7.5	Margate ...	2.7	-	-	67	54	bc	bc	4.8
Skegness ...	1.4	2	-	65	58	0	bc	7.4	Ramsgate ...	1.7	-	-	64	53	c	c	4.9
									Hastings ...	3.4	-	-	66	55	bc	bc	9.6
									Eastbourne ...	5.0	0.2	-	65	55	bc	bc	8.1
Eng. N.W.									Seaford ...	2.9	-	-	64	55	bc	bc	10.5
Morecambe ...									Brighton ...		-	-	67	57	bc	bc	9.1
Blackpool ...									Worthing ...	5.2	-	-	68	50	bc	bc	9.5
Southport ...	0.2	1	-	61	52	bc	bc	6.0	Littlehampton ...		-	-					
									Bognor ...	6.3	-	1	70	59	bc	bc	9.8
Midlands.									Bournemouth ...	7.5	*	*	66	52	bc	bc	12.0
Buxton ...		*	*	58	48	bc	bc	8.8	England, S.W.								
Leamington Spa ...	1.0	2	0.1	64	53	bc	bc	5.2	Weymouth ...								
Malvern ...									Torquay ...	6.3	-	-	67	50	bc	bc	10.5
Ross-on-Wye ...	3.6	-	-	67	50	bc	bc	7.3	Paignton ...		-	-	65	49	bc	bc	12.1
									Penzance ...	7.3	0.2	-	64	55	bc	bc	11.5
Wales.									Newquay ...		-	-					
Rhyl ...									Bude ...	9.4	-	-	62	53	bc	bc	11.7
Colwyn Bay ...									Ilfracombe ...		-	-					
Llandudno ...									Weston-s-Mare ...		-	-					
Aberystwyth ...	1.0	*	*	60	52	bc	bc	8.5									
Tenby ...	7.5	-	-	68	59	-	-	11.5									

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1602	Joules.	27.2	Milliwatts.	95.	Milliwatts.
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY										Hours of Observation G.M.T.						
%	%	Hr.	F.	F.	F.	mm. §				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obs.) ...	57	65	6.1	70	47	38	-	0.	0.0	bc. bc						
City (Bunhill Row) ...	*	*	6.2	*	*	*	-	*	*	*						
Westminster (St. James's Pk.)	60	73	7.6	69	49	47	-	0. bc. 0	bc	bc. 0.	British Isles ...	7	18	Corunna ...	7	18
Camden Sq. (Brit. Rainfall)	62	63	6.9	71	48	46	-	*	*	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	*									Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	68	7.4.	68	50	41	-	0.	c. bc	bc. bc.	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*		*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	8.0.	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)											Egypt ...	6	18	Limassol...	6	—

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

9 <sup>th</sup> July 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.41	11.58	8.15
Greenwich ...	3.42	11.58	8.14
Wick ...	3.54	12.5	8.16
Valencia ...	4.32	12.46	8.59

## PILOT BALLOON ASCENTS for the PAST WEEK.

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

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail;  
i. 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.  
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1916.

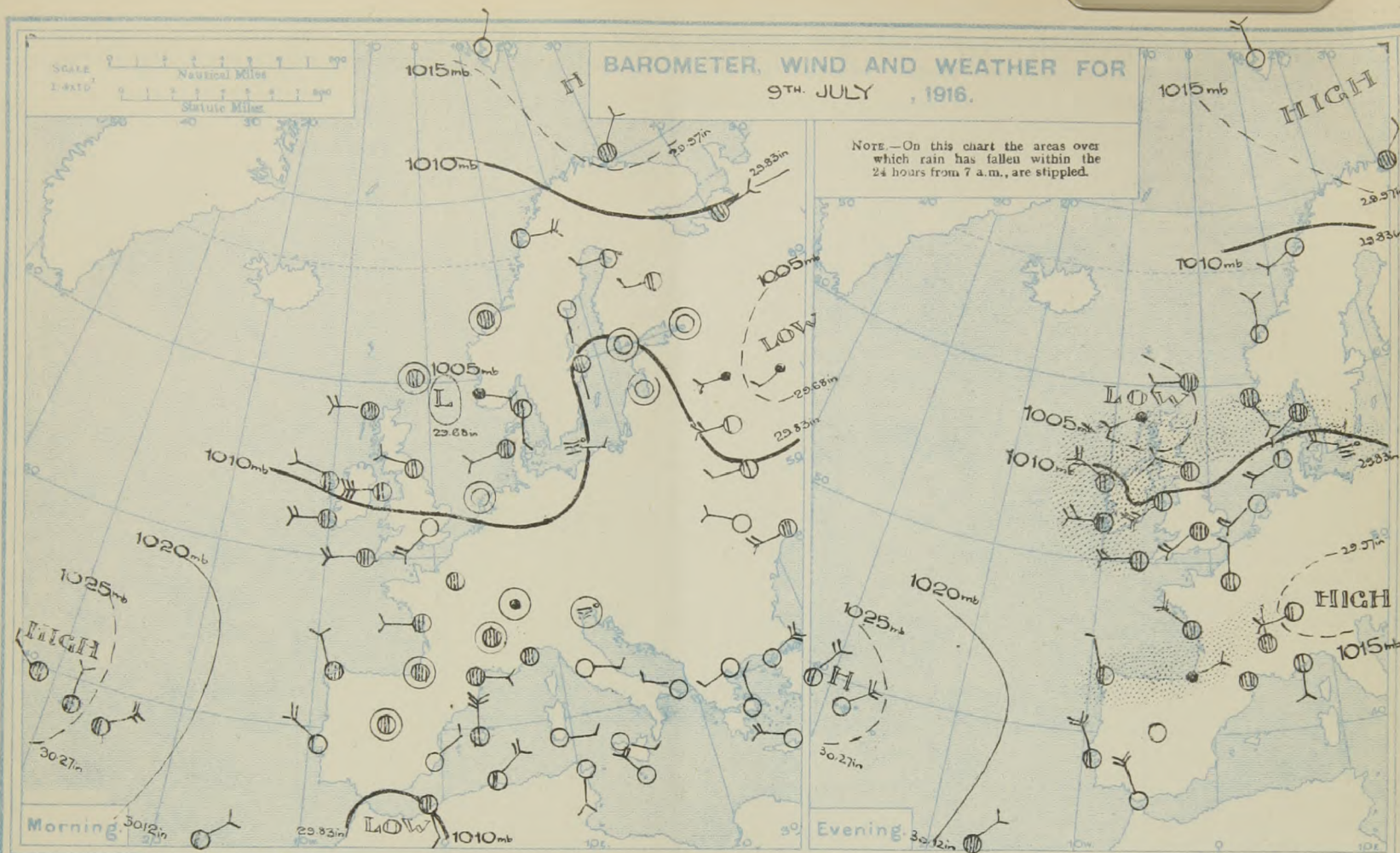
## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 192

Monday

10<sup>th</sup> July

STATIONS.	YESTERDAY EVENING.					THIS MORNING										LAST 24 HOURS.					Sun- shine for yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.			
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb. °F.	°F.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	10052	33	W	2	0	10051	0	53	+3	S	2	0	2	54	47	c.c.	0	0	*	
	Deerness (Orkney) ...	10037	52	S	3	0	10027	*	52	+3	SE	2	W	0	58	49	c.c.	c.c.	c.c.	5.0	
	Stornoway ...	10021	51	WSW	3	0	10020	0	51	0	NW	1	0	1	52	49	or	or	or	0.2	
	Castledyke (Barra Isd.) ...	10042	51	SW	3	0	10042	0	50	-1	W	3	0	3	53	47	or	or	or	0.0	
	Glasgow ...	10072	53	WSW	3	0	10051	-1	50	+1	SW	4	0	2	58	49	or	or	or	2.4	
	Eskdalemuir ...	10052	52	SW	4	0	10072	0	49	0	SSW	5	0	2	56	47	or	or	or	0.2	
	Malin Head ...	10075	52	NW	5	0	10060	+1	51	+1	WNW	5	0	6	55	48	or	or	or	0.5	
	Blacksod Point ...	10117	53	WNW	3	0	10123	+2	52	0	WNW	5	NW	4	58	47	or	or	or	0.5	
	Valencia ...	10139	58	W	3	0	10164	+2	55	+1	W	3	W	3	60	52	c.c.	c.c.	c.c.	7.7	
	Roche's Point ...	10140	53	SW	2	0	10158	*	53	-1	W	2	0	2	61	50	or	or	or	*	
	Birr Castle ...	10107	60	W	2	0	10128	*	51	+2	SW	1	0	1	62	49	or	or	or	9.8	
	Donaghadee ...	10088	56	SE	3	0	10083	0	51	+1	SW	4	0	3	61	50	or	or	or	*	
	Liverpool (Bidston) ...	10106	59	W	3	0	10106	0	55	+3	SW	1	0	2	62	50	or	or	or	10.9	
	Holyhead ...	10113	56	SW	5	0	10112	+1	52	-2	WSW	5	0	4	61	51	or	or	or	10.7	
	Pembroke (St. Ann's) ...	10134	56	WSW	3	0	10139	+1	54	-1	WSW	3	NW	3	59	53	or	or	or	8.6	
	Scilly (St. Mary's) ...	10153	58	W	3	0	10169	+1	57	+2	WNW	4	W	4	63	51	or	or	or	2.4	
	Falmouth ...	10149	59	W	5	0	10155	+2	54	-1	W	3	0	1	63	50	or	or	or	3.0	
	Jersey (St. Aubin) ...	10156	63	WNW	4	0	10164	*	57	-1	WSW	3	0	3	65	50	or	or	or	13.0	
	Portland Bill ...	10157	58	W	3	0	10145	0	56	0	W	4	W	3	60	54	or	or	or	*	
	Dungeness ...	10142	60	WSW	4	0	10140	0	58	+1	SW	3	SW	3	62	54	or	or	or	*	
Dover ...	*	*	*	*	*	10143	+1	55	-2	SW	2	SW	3	61	50	or	or	or	11.1		
NORTHERN EUROPE.	Wick ...	10039	52	SSE	3	0	10027	-1	53	+4	S	2	0	2	56	48	or	or	or	*	
	Nairn ...	10034	56	W	3	0	10022	*	53	+2	WSW	1	0	1	60	49	or	or	or	2.3	
	Aberdeen ...	10046	54	SSW	1	0	10042	0	51	+1	S	2	0	2	56	50	or	or	or	0.1	
	Leith ...	10068	56	W	2	0	10050	0	54	+2	SW	2	0	2	62	50	or	or	or	*	
	Tynemouth ...	10031	56	WNW	2	0	10036	0	55	+3	SW	2	W	3	60	49	or	or	or	*	
	Spurn Head ...	10102	62	W	5	0	10114	-1	56	+3	W	2	0	2	67	50	or	or	or	11.9	
	Yarmouth ...	10120	64	WSW	2	0	10132	+1	54	-1	WNW	3	0	2	67	51	or	or	or	10.1	
	Clacton-on-Sea ...	10127	62	SW	5	0	10135	0	55	-3	SW	1	W	2	68	52	or	or	or	8.5	
	Nottingham ...	10112	61	W	1	0	10120	*	53	-2	SW	2	SW	2	65	48	or	or	or	11.7	
	Benson (Oxon.) ...	10122	64	SW	2	0	10136	0	53	-1	SW	2	SW	0	66	47	or	or	or	7.4	
Sth Farnborough ...	10129	61	SW	4	0	10136	+1	55	-2	WSW	2	0	0	68	51	or	or	or	3.3		
London (New Obsy.) ...	10130	65	SW	3	0	10143	+1	55	-1	SW	2	0	0	67	53	or	or	or	3.3		
FRANCE, &c.	Spitsbergen ...	10184	37	WNW	3	0	10193	+1	37	+1	WNW	3	0	0	37	34	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 10.45.  1200 metres. WSW. 9 m.p.s. 900 " " W by S. 8 " 600 " " " 7 " 300 " " " 6 " Surface " " 3 "				
	Vardö ...	10171	43	NE	1	0	10189	0	45	+2	NE	2	0	0	45	39					
	Bodö ...	10096	64	SW	2	0	10106	0	68	-7	0	0	0	79	59						
	Christiansund ...	10067	63	N	2	0	10077	0	55	-2	NW	3	0	2	64	55					
	Skudesnaes ...	10067	55	SE	6	0	10090	0	55	0	ESE	6	0	4	61	52					
	Færder (X'fjanda Fjord) ...	10073	61	SW	1	0	10122	+1	55	-4	SW	2	0	2	64	50					
	The Scaw (Skagen) ...	10126	61	SW	3	0	10126	0	61	+4	SSW	2	SW	2	63	54					
	Blaavands Huk ...	10113	66	WNW	4	0	10138	+1	61	0	NW	2	0	0	70	54					
	Copenhagen ...	10103	59	WNW	3	0	10153	+3	57	-4	WNW	1	0	1	63	54					
	Bornholm ...	10103	59	WNW	3	0	10153	+3	57	-4	WNW	1	0	1	63	54					
SOUTHERN STATIONS.	The Helder ...	10136	61	SW	3	0	10128	0	54	-5	S	1	SW	0	63	46	Notes  Lyons: 9 <sup>th</sup> July. Lightning in Evening Thunderstorm @ Midnight				
	C. Gris Nez ...	10141	59	SW	5	0	10141	0	59	+4	WSW	4	0	3	63	54					
	La Hève ...	10149	61	NW	2	0	10166	*	57	0	W	3	0	3	68	55					
	Brest (St. Mathieu) ...	10159	61	WNW	2	0	10184	+2	57	-4	NW	3	0	2	66	52					
	Rochefort (Ile d'Als) ...	10146	63	NW	4	0	10181	+3	57	-2	WNW	4	0	2	70	55					
	Biarritz ...	10132	63	ESE	2	0	10193	+3	64	0	NW	2	0	3	66	57					
	Paris ...	10141	66	NE	1	0	10153	+3	59	0	N	1	0	0	70	52					
	Belfort ...	10154	68	WSW	2	0	10146	*	62	+5	0	0	0	11	75	57					
	Lyons ...	10126	73	0	0	0	10160	*	61	-3	0	0	0	6	80	59					
	Nice ...	10144	70	S	2	0	10115	+1	73	+2	0	0	0	4	84	64					
Perpignan ...	10124	72	0	0	0	10141	+3	72	+2	NW	3	NW	0	80	63						
Sanguinaire ...	*	81	N	3	0	*	82	-	N	4	0	0	2	84	50						
Corunna ...	10180	59	WNW	1	0	10216	+3	59	-2	S	1	W	2	63	54						
Madrid ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
Lisbon ...	10173	68	WNW	4	0	10197	0	61	-2	WNW	3	0	1	70	57						
Azores ...	10264	*	NE	4	0	10282	+2	63	-2	0	0	0	1	72	61						
Madeira ...	10193	70	NE	2	0	10219	+2	64	-4	NE	2	0	2	70	64						
Gibraltar ...	10152	72	NW	4	0	10159	*	67	-	W	4	0	3	86	66						
Malta ...	*	*	*	*	*	10168	+1	84	+3	NW	1	0	0	89	75						
Limassol ...	*	*	*	*	*	10061	+2	88	+2	W	1	0	2	99	70						
Alexandria ...	10093	79	N	3	0	10095	0	81	+2	0	0	0	1	86	75						
Cairo (Helwan) ...	10083	90	N	3	0	10093	+1	77	0	0	0	0	0	100	70						
YESTERDAY'S REPORTS		..... 20 h. G.M.T.					..... 7 h. G.M.T.														
MEDITERRANEAN.	Venice ...	10135	75	S	1	0	10155	*	77	+4	0	0	m	3	74	68					
	Pesaro ...	10169	75	0	0	0	10162	*	75	+11	0	0	m	2	87	64					
	Rome ...	10167	73	SW	1	0	10175	*	72	-7	N	1	0	0	86	61					
	Viesti ...	10153	77	ESE	1	0	10169	*	79	-	0	0	0	1	84	73					
	Brindisi ...	10161	77	WNW	1	0	10164	*	75	+5	N	1	0	0	82	68					
	Cagliari ...	10142	82	SE	4	0	10144	*	77	+7	E	1	0	0	86	61					
	Palermo ...	10154	77	0	0	0	10163	*	81	+4	0	0	0	1	86	64					
	Tripoli ...	10126	79	0	0	0	10132	*	84	+9	0	0	0	0	93	75					
Algiers ...	10110	75	0	0	0	10118	+3	81	-1	NE	2	0	0	95	73						





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

**FORECAST DISTRICTS.**

**STORM WARNINGS.**  
The Coasts upon which the Warning signals are at present displayed are indicated thus:—

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

No Warnings Issued.

- |    |   |
|----|---|
| 0  | a } Wind light or moderate between South and West;<br>b } much cloud, rain at times; cool.                              |
| 1  |   |
| 2  | a } Wind South-Westerly or Westerly, light or moderate;<br>b } variable weather, some rain; cool.                       |
| 3  |   |
| 4  | a } Light or moderate winds, mainly South-Westerly;<br>b } mostly fair, but some local showers; cool.                   |
| 5  |   |
| 6  | a } Wind between South-West and West, moderate or<br>b } fresh; rain at times; cool.                                    |
| 7  | a }<br>b }  |
| 8  | a } Westerly or South-Westerly winds, light to moderate;<br>b } mostly fair, some local showers; cool.                  |
| 9  | a }<br>b }  |
| 10 | a } Same as Nos. 6 and 7.<br>b } Wind from some Westerly point, light or moderate;<br>variable sky, some showers; cool. |
| 11 | Wind between West and North-West, moderate; sea moderate or slight; mostly fair, some showers.                          |

FURTHER OUTLOOK.

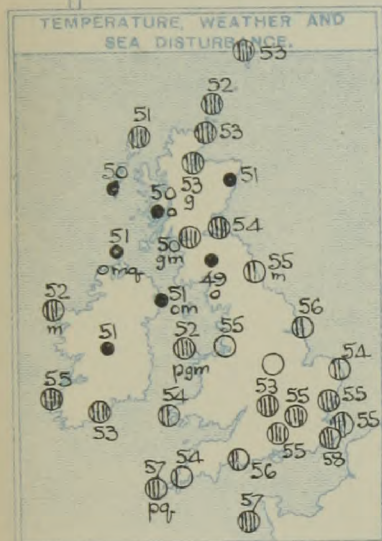
Milli inches  
1050—31  
1040  
1030  
1020  
1010  
1000  
990  
980  
970



# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 10<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

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



## 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.

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

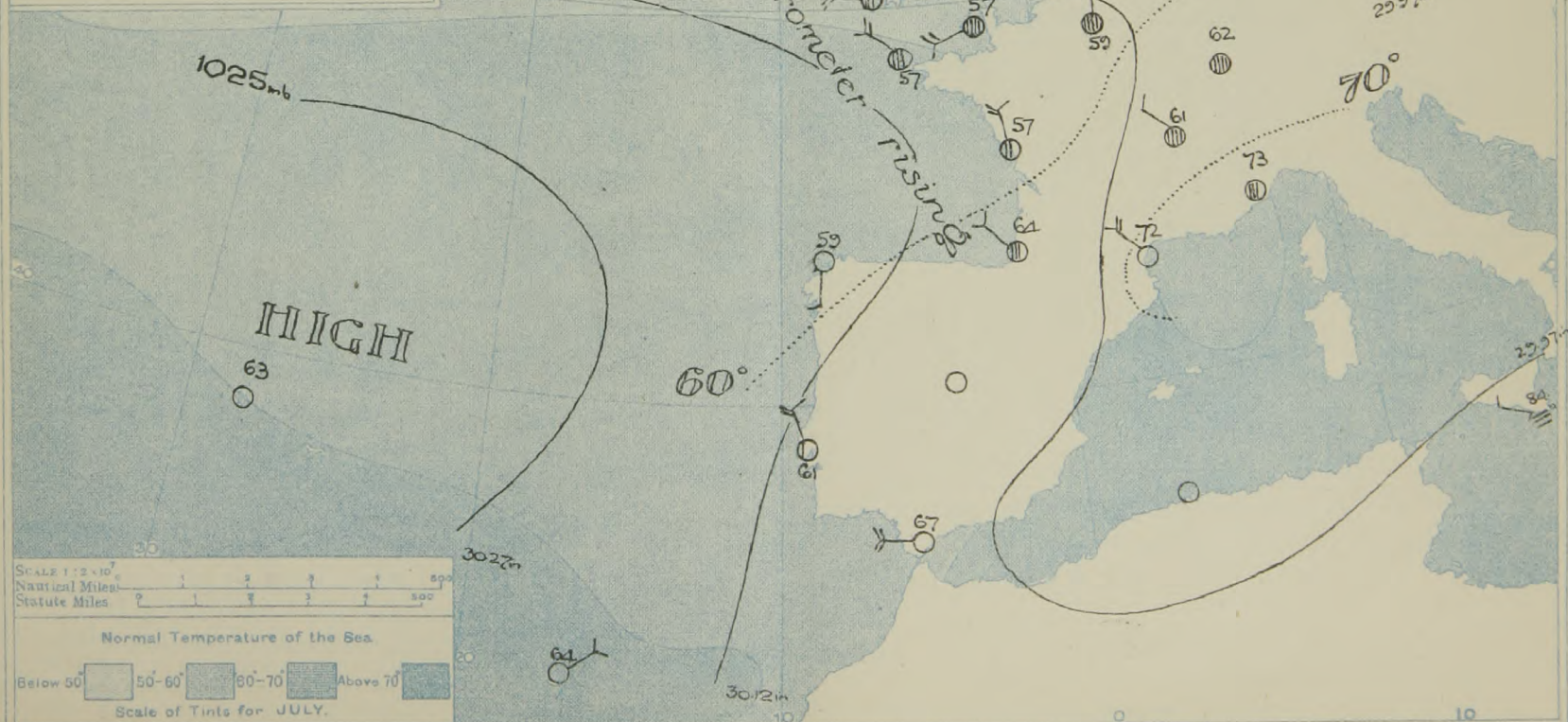
**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded. ○ sky ¾ clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





REPORTS  FROM RUSSIA  FOR  YESTERDAY.	STATIONS.	8h. AT 8 P.M. LOCAL TIME.					9h. AT 7 A.M. LOCAL TIME.										Rain- fall. Milli- metres.	TEMP. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP. F.	WIND.		Weather.	BAROMETER. Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.					Direc.	Force 0-12.								
Archangel ...						1008.0	0	68	-4	E	2	*	c	*	1	*	63		
Gorki ...						1005.6	0	61	+4	W	3	*	b	*	3	*	52		
Veliki Luki ...						1005.3	*	59	.	W	2	*	r	*	1	*	57		
Hangö ...	1008.3	55	SSW	2	0	1010.0	+1	57	-6	-	0	*	b	*	4	*	52		
Riga ...	1009.0	59	.	0	b	1011.0	0	63	+6	-	0	*	b	*	1	*	55		
Petrograd ...	1005.6	68	WNW	3	C	1007.4	+1	72	+2	E	1	-	b	*	4	79	61		
Moscow ...	1005.0	59	W	3	0	1004.4	-2	57	0	WSW	1	*	r	*	1	*	54		
Kiev ...	1010.3	63	WNW	2	0	1011.0	0	64	+1	W	1	*	bc	*	-	*	61		
Kharkov ...	1012.0	61	-	0	b	1010.6	0	64	+1	-	0	*	o	*	1	*	54		
Kishinev ...	1013.0	72	SE	1	0	1013.6	-2	59	-5	NW	2	*	b	*	-	*	63		
Elisabetgrad ...	1012.2	70	SW	2	0	1012.2	0	64	+3	-	0	*	o	*	1	*	63		
Nicolaiev ...	1013.5	70	SSW	2	r	1012.4	*	70	+6	SW	3	*	o	*	1	*	59		
Odessa ...	1014.1	73	WSW	2	0	1012.6	+1	73	+3	W	3	*	c	*	1	*	68		
Tarkhankout ...	1014.7	72	-	0	C	1014.6	*	73	0	-	0	*	c	*	1	*	66		
Soukhoum ...																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY. UP TO 17h.

STATIONS.	Sun- shine for 8h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for 8h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	F.	F.						Mm.	Mm.	F.	F.			
Scotland.									England.								
Oban ...	0.6	5	1	55	47	r	o	0.0	Lowestoft ...								
Banff ...	0.5	2	3	57	49	bc	bc.p.r	1.0	Felixstowe ...	2.8	-	-	68	49	bc	bc	9.0
Carnoustie ...	*	*	*	60	53	o.c	p.bc	1.2	Walton-on-Naze ...	2.7	-	-	67	48	b.bc.b	bc.c	9.7
St. Andrews ...									Southend-on-Sea ...	2.4	-	-	70	50	bc	bc.c.o	7.0
Eng. N.E.									England, S.E.								
Harrogate ...	3.2	-	-	60	46	b	bc.c	8.2	Margate ...	*	-	-	?	51	b	bc.b	9.4
Skegness ...	2.3	0.1	-	66	44	bc	bc	10.5	Ramsgate ...	4.4	-	-	65	48	b	bc	9.3
Eng. N.W.									Hastings ...	*	-	-	63	48	bc.b	b	12.1
Morecambe ...									Eastbourne ...	6.2	-	-	63	50	b	b	11.5
Blackpool ...									Seaford ...								
Southport ...	1.0	-	-	62	52	o.c.b	b	8.7	Brighton ...	2.7	-	-	65	50	b	b	12.8
Midlands.									Worthing ...	3.7	-	-	65	46	bc	bc	11.6
Buxton ...									Littlehampton ...	*	-	-	63	46	b	b	11.3
Leamington Spa ...	4.1	-	-	65	45	b.bc	bc.c	8.3	Bognor ...								
Malvern ...									Bournemouth ...	*	-	-	66	48	c.bc	bc	10.0
Ross-on-Wye ...									England, W.								
Wales.									Weymouth ...								
Rhyl ...	2.5	-	-	63	50	bc.c	bc.c	7.5	Torquay ...	7.6	-	-	62	51	o	o	1.0
Colwyn Bay ...	*	-	-	62	50	bc	bc	10.3	Paignton ...								
Llandudno ...	*	-	-	61	51	b	b	8.0	Penzance ...								
Aberystwyth ...	*	-	-	60	53	o.c	b.bc		Newquay ...	8.1	1	-	63	53	bc	bc	4.8
Tenby ...									Bude ...	11.7	-	-	64	58	bc	bc	6.2
									Ilfracombe ...								
									Weston-s-Mare ...								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.						Total 1496 Joules.	Average Rate. 25.4 Milliwatts.	Max. Rate. 86 Milliwatts.
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.								
				Max.	Min.														
																	24 HOURS ENDED 9 h. TO-DAY		
%	%	Hr.	F.	F.	F.	mm.				Morning.	Evening.		Morning.	Evening.					
Greenwich (Royal Obsy.) ...	62	86	8.5	72	51	40	0.3	bc	bc.c	c.o.p.o									
City (Bunhill Row) ...	*	*	*	*	*	*	*	*	*	*									
Westminster (St. James's Pk.)	70	82		67	51	49	-	bc.o	o	o	British Isles ...	7	18	Corunna ...	7	16			
Camden Sq. (Brit. Rainfall)	-	74	4.8	70	52	50	-	-	-	*	France ...	7	18	Madrid ...	8	16			
Hampstead (Reservoir) ...	*	*	*	*	*	*	*	*	*	*	Norway ...	7	18	Lisbon ...	7	21			
S. Kensington (Museum Grounds)	*	75	6.4	66	50	41	-	b.bc	a.bc.c	c.ov	Denmark ...	6	17	Azores ...	8	17			
Richmond Park ...	*	*	*	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21			
Kew. (See front page.)	*	*	5.3	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	-			
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																			
Egypt ... 6 18 Limassol... 6 -																			

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

10th & 11th July, 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.43	11.58	8.14
Greenwich ...	3.44	11.58	8.13
Wick ...	3.54	12.5	8.14
Valencia ...	3.07	12.5	8.3
	2.22	12.7	9.11
	2.23	12.7	9.10
	4.34	12.46	2.58
	4.35	12.46	2.58

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° over a large portion of the Kingdom. Rain fell in the north and west, and the duration of bright sunshine varied greatly. Over a large area in England the day was bright.

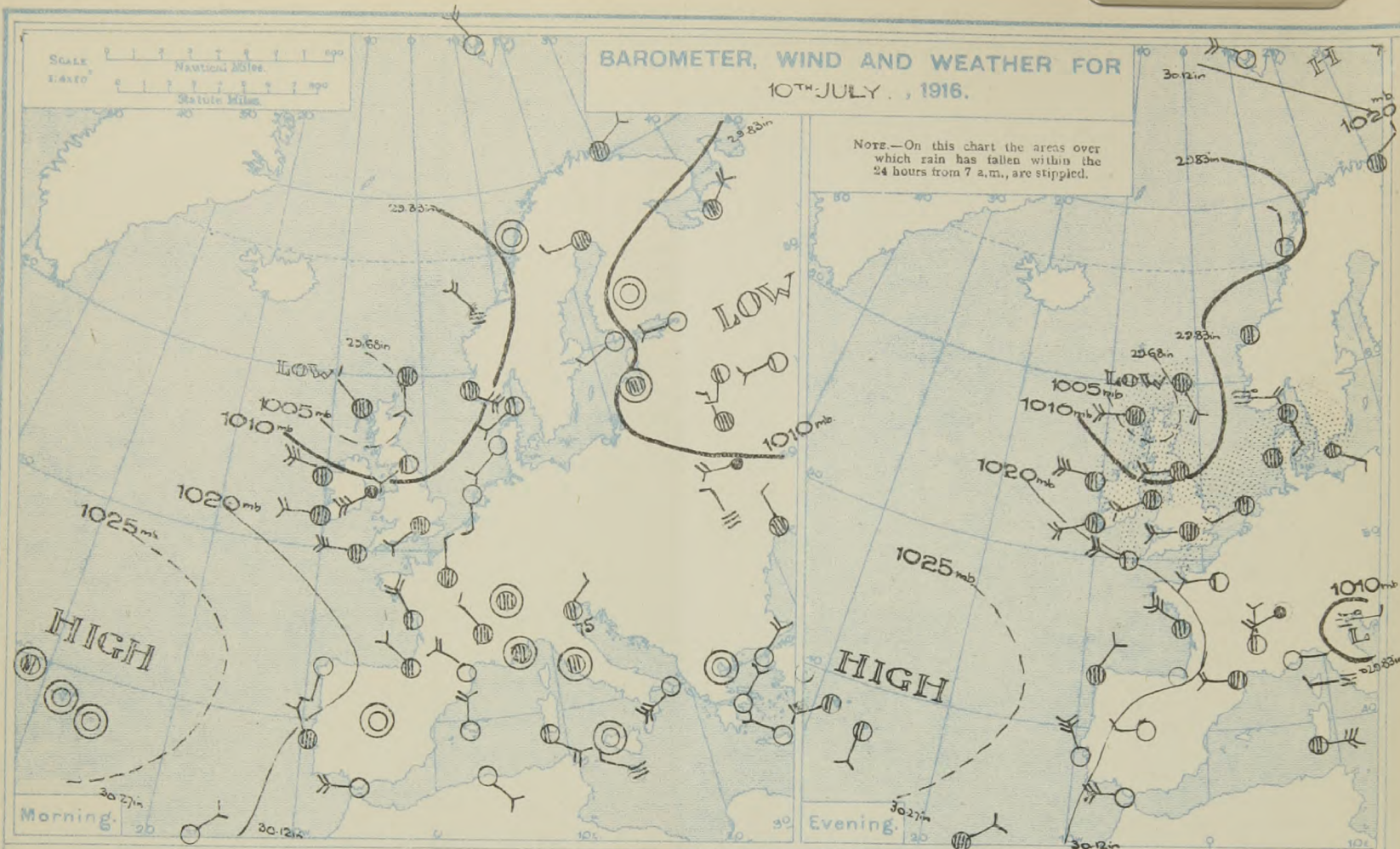
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; 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.



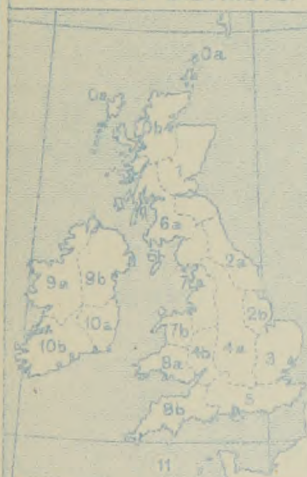
	STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day Hours.	
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
				Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	10061	53	SSE	3	om	10063	0	51	-2	SE	1	-	om	1	5	55	49	om	omd	omg	*		
	Deerness (Orkney) ...	10030	53	SSE	2	o	10054	*	53	+1	W	3	SW	0	1	55	50	o	o	o	0.1			
	Stornoway ...	10041	54	W	4	op	10081	+3	52	+1	NW	3	-	o	3	56	47	o	o.c.op	bc.o	0.5			
	Castlebay (Barra Isd.) ...	10068	51	W	4	r	10100	+1	51	+1	W	3	-	r	3	52	44	r	r	r.d.o.	0.0			
	Glasgow ...	10068	51	WSW	5	omd	10102	+2	51	+1	WSW	3	-	omg	*	3	53	49	omd	omd	omd	0.0		
	Eskdalemuir ...	10085	49	SW	4	or	10115	+2	49	0	SW	3	-	o	*	13	52	47	or	or	or	0.1		
	Malin Head ...	10094	52	NW	6	omg	10117	+1	53	+2	NW	4	NW	bcg	5	8	54	50	omg	omg	cg	0.2		
	Blacksod Point ...	10154	54	NNW	5	cgm	10167	+1	54	+2	W	5	W	cm	4	2	56	49	omg	omg	omg	*		
	Valencia ...	10195	57	W	4	c	10207	+1	57	+2	SW	3	-	o	3	-	61	53	o.c.b	b.b.e	c.o	6.4		
	Roche's Point ...	10186	58	NW	4	o	10208	*	54	+1	WSW	2	-	o	2	0.3	62	53	op	c.o	c.op	*		
	Birr Castle ...	10162	56	W	2	c	10163	*	54	+3	SW	1	-	o	*	5	58	51	or	or	c.op	0.4		
	Donaghadee ...	10168	54	NNW	4	omg	10154	+2	54	+3	NNW	4	W	omg	3	3	55	50	omg	omg	omg	*		
	Livepool (Bidston) ...	10128	53	WSW	4	o	10150	+1	55	0	WSW	5	W	c	3	1	57	52	bc	op	o.c.	2.2		
	Holyhead ...	10136	57	WSW	3	cm	10162	0	54	+2	WSW	2	-	omg	1	3	57	51	cgm	omg	cgm	?		
	Pembroke (St. Ann's) ...	10172	57	WSW	5	bc	10194	+1	55	+1	WSW	3	-	o	3	-	58	54	bc	bc	c	0.5		
	Scilly (St. Mary's) ...	10203	61	NNW	4	b	10223	+1	57	0	NNW	4	W	cv	4	0.2	64	54	bc	bc	bc	13.8		
	Falmouth ...	10194	61	W	3	bc	10212	+1	57	+3	W	3	-	o	*	-	64	51	bc	bc	bc	11.9		
	Jersey (St. Aubin) ...	10200	61	W	4	b	10218	*	58	+1	W	4	-	o	3	1	62	54	op	b	b	10.2		
	Portland Bill ...	10173	60	W	5	bc	10200	+1	57	+1	W	4	W	o	3	1	61	54	bc	bc	bc	*		
	Dungeness ...	10148	59	SW	5	b	10184	+1	58	0	SW	3	SW	c	3	-	62	53	bc	bc	bc	*		
	Dover ...	*	*	*	*	*	10184	+1	55	0	SW	3	SW	o	4	-	61	51	b	bc	o	6.5		
NORTHERN EUROPE.	Wick ...	10031	53	S	2	o	10060	+3	52	-1	NNW	2	-	o	2	4	56	49	o	og	gmd	*		
	Nairn ...	10040	54	W	3	cg	10078	*	53	0	W	1	W	cg	1	0.4	59	49	cg	cg	cg	0.3		
	Aberdeen ...	10039	56	W	1	o	10075	+2	54	+3	NNW	2	-	c	2	2	59	49	or	c.op	or	0.2		
	Leith ...	10063	54	W	3	o	10092	+1	53	-1	W	2	W	c	3	1	56	51	o	o	or	*		
	Tynemouth ...	10089	54	W	3	omg	10108	+2	55	0	NNW	3	W	omg	3	1	59	50	omg	omg	omg	*		
	Spurn Head ...	10113	57	NNW	3	o	10143	+1	56	0	W	5	-	og	4	1	62	52	r.d.b	bc	og	3.7		
	Yarmouth ...	10142	61	NNE	1	or	10163	+2	56	+2	WSW	2	-	c	2	5	64	52	bc	bc	or	2.7		
	Clacton-on-Sea ...	10141	61	SSW	4	bc	10173	+1	56	+1	W	3	W	o	3	1	63	53	om	bc	bc	5.3		
	Nottingham ...	10134	55	W	4	c	10154	*	55	+2	W	1	W	c	*	2	64	52	bc	bc	or	6.1		
	Benson (Oxon.) ...	10143	59	W	3	bc	10182	+1	55	+2	WSW	3	-	o	*	-	66	54	bc	bc	bc	*		
FRANCE, & C.	Sth Farnborough ...	10153	61	NNW	5	o	10181	+1	57	+2	WSW	4	-	o	*	1	69	51	o	bc	bc	6.4		
	London (Kew Obsy.) ...	10152	61	W	3	o	10183	+2	57	+2	WSW	3	-	o	*	1	66	54	op	bc	bc	4.5		
	Spitsbergen ...	10210	39	NW	4	o	10213	0	39	+2	NW	2	*	b	*	*	41	37	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 6.13 h. 1800 metres W. 16 mps. 1500 " " W. 13 " " 1200 " " W by N. 13 " " 900 " " W.N.W. 13 " " 600 " " W.N.W. 11 " " 300 " " W. 7 " " Surface W.S.W. 4 " "					
	Vardö ...	10197	45	NE	1	o	10204	+1	46	+1	N	2	-	o	3	*	46	39						
	Bodö ...	10096	64	N	1	b	10113	0	63	-5	N	1	E	o	-	60	57							
	Christiansund ...	10123	59	0	c	10114	0	55	0	NE	2	-	b	2	-	59	55							
	Skudenes ...	10113	57	ESE	3	m	10087	-2	55	0	E	3	-	c	2	-	61	55						
	Færder (Xania Fjord) ...	10136	61	SSE	1	c	10106	-1	54	-1	W	1	-	r	1	2	63	54						
	The Scaw (Skagen) ...	10131	63	0	o	10114	-1	57	-4	SSW	1	-	o	2	3	68	54							
	Blaavands Huk ...	?	64	SE	2	bc	10107	+1	57	-4	NNW	2	-	m	*	4	66	55						
Bornholm ...	10146	63	SE	1	c	10111	-2	59	+2	SSW	3	-	m	*	9	64	57							
SOUTHERN STATIONS.	The Helder ...	10143	59	WSW	2	c	10147	0	57	+3	WSW	3	-	o	2	-	63	54	GALES. Duration and Extreme Force in British Islands.					
	C. Gris Nez ...	10163	58	SW	6	b	10181	+1	57	-2	W	5	*	bc	4	-	61	54						
	La Hève ...	10190	61	W	4	b	10217	*	59	+2	W	4	*	c	4	-	68	54						
	Brest (St. Mathieu) ...	10221	63	NNW	3	bc	10233	+1	59	+2	NNW	1	*	c	2	-	66	55						
	Rochefort (Ile d'Alx) ...	10210	61	NW	5	c	10227	+1	59	+2	NNW	3	*	c	*	-	68	57						
	Biarritz ...	10184	66	NNW	2	c	10215	0	57	-2	SW	1	W	o	*	-	82	48						
	Paris ...	10189	61	SW	3	r	10212	*	60	-2	-	0	*	bc	*	5	70	60						
	Belfort ...	10180	68	N	2	bc	10191	*	62	+1	NNW	3	*	b	*	-	79	59						
	Nice ...	10117	73	E	1	b	10130	+1	72	-1	-	0	*	bm	0	-	88	63						
	Perpignan ...	10163	73	W	3	o	10179	+1	68	-4	W	3	SW	o	*	-	82	61						
MEDITERRANEAN.	Sanguinaire ...	*	81	SE	2	m	*	75	-7	E	2	*	m	2	-	86	64							
	Corunna ...	10234	61	NNE	2	o	10275	+3	61	+2	-	0	-	b	1	?	63	54	YESTERDAY'S REPORTS 9 h. ... 20 h. G.M.T.					
	Madrid ...	10130	49	W	2	b	10199	+3	64	+1	NNE	1	-	b	*	-	82	55						
	Lisbon ...	10212	66	NW	5	b	10242	+1	61	0	NNW	4	-	b	5	-	70	59						
	Azores ...	10295	*	SW	3	bc	10311	+1	64	+1	0	0	*	b	0	-	79	64						
	Madeira ...	10223	70	NE	2	o	10253	0	64	0	NE	3	-	b	3	-	72	63						
	Gibraltar ...	10193	68	W	5	b	10196	*	65	-2	NW	4	*	b	3	-	84	64						
	Malta ...	*	*	*	*	*	10150	0	86	+2	NW	3	-	b	2	-	93	80						
	Limassol ...	*	*	*	*	*	10051	0	88	0	W	1	-	b	0	-	95	66						
	Alexandria ...	10080	77	NNW	2	b	10070	0	77	-4	-	0	-	b	0	-	88	73						
Cairo (Helwan) ...	10069	93	N	1	b	10063	0	81	+4	NW	1	-	b	*	-	100	72							
MEDITERRANEAN.	Venice ...	10151	77	0	o	b	?	75	-2	NNE	1	-	o	3	-	82	70	YESTERDAY'S REPORTS 9 h. ... 7 h. G.M.T.						
	Pesaro ...	10154	77	0	o	b	10152	*	75	0	W	1	-	bc	4	-	82						66	
	Rome ...	10170	68	0	o	b	10149	*	79	+7	N	1	-	b	*	-	91						66	
	Viesti ...	10159	84	SE	1	b	10134	*	83	+9	SE	1	-	b	3	-	88						73	
	Brindisi ...	10161	81	NE	2	b	10140	*	81	+6	SW	6	-	bc	3	-	86						66	
	Cagliari ...	10127	84	SE	4	a	10116	*	81	+4	SE	3	-	bc	3	-	86						66	
	Palermo ...	10157	90	0	o	o	10156	*	86	+5	-	0	-	b	1	-	93						64	
	Tripoli ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						*	*
	Algiers ...	10096	90	SE	4	o	10150	+4	78	-3	SE	2	-	b	2	-	91						72	





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Light to moderate breezes between

South-West and North-West; cloudy to dull,

local showers and mist; cool day, moderate

night temperature.

Light to moderate North-Westerly breezes; cloudy to fair, local mist or fog; cool.

Millibars

1050

1040

1030

1020

1010

1000

990

980

970

960

950

940

930

920

910

900

890

880

870

860

850

840

830

820

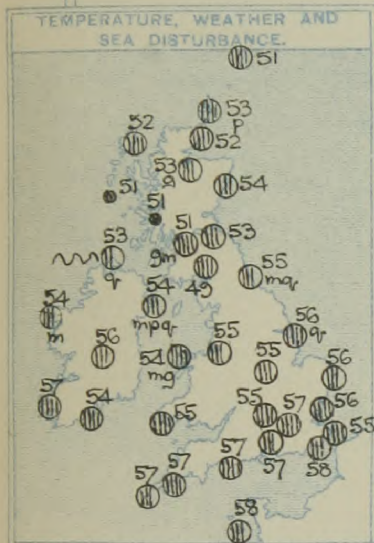
810



# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 11<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The reports afford no indication of any decided change in the general situation.



## 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:—

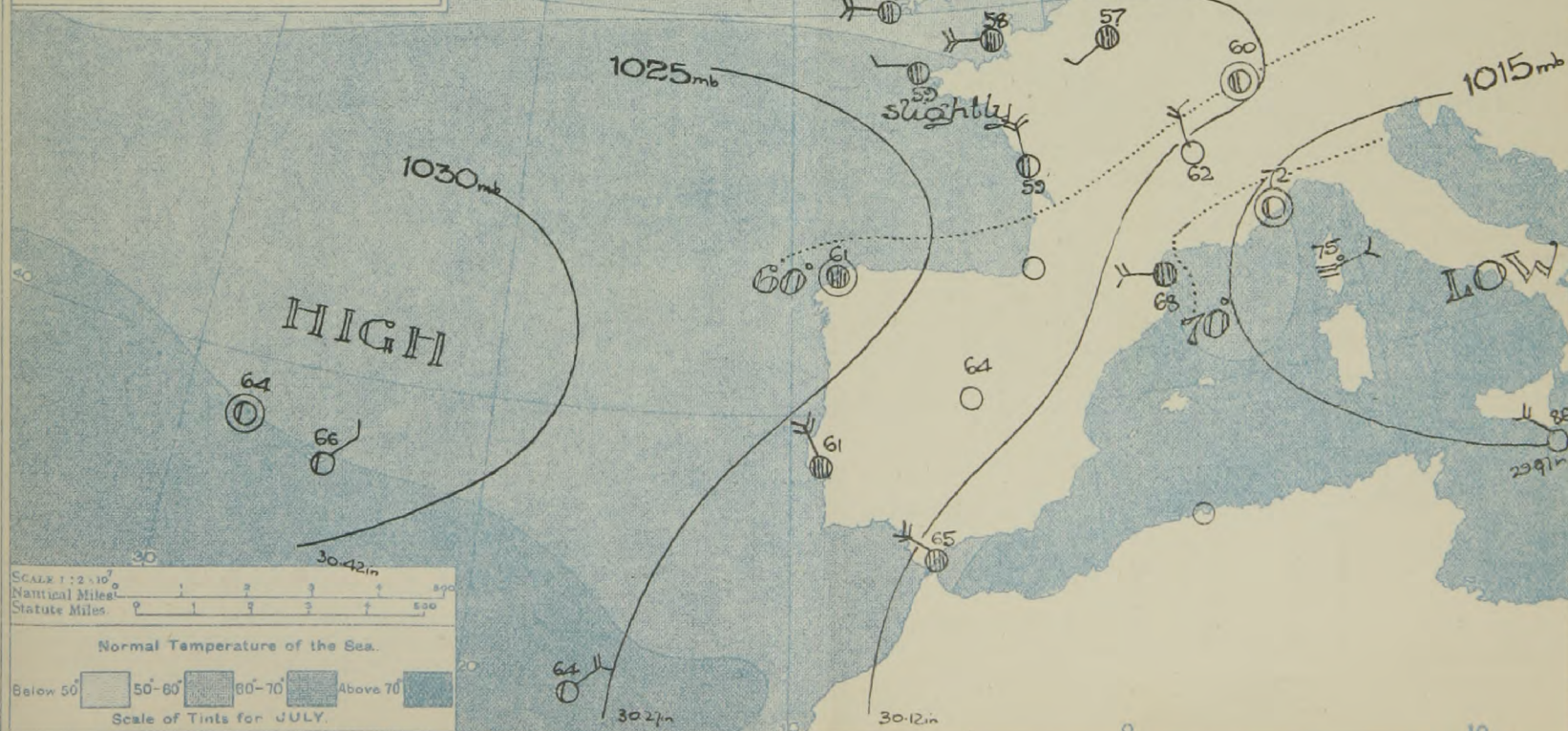
○ clear sky. ○ sky  $\frac{1}{2}$  clouded. ○ sky  $\frac{3}{4}$  clouded.

○ sky  $\frac{3}{4}$  clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough High





REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	9th JULY AT 9 P.M. LOCAL TIME					10th JULY AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.						
			Direc.	Force 0-12.						Direc.	Force 0-12.			Max.	Min.				
Archangel ...	1006.7	66	NE	3	o	1009.3	+3	61	-7	NE	3	*	o	*	-	*	43		
Gorki ...	1013.5	62	N	4	o	1007.8	0	63	+2	N	1	*	o	*	3	*	54		
Veliki Luki ...	1008.8	62	NW	2	b	1009.6	*	64	+5	SSW	1	*	bc	*	2	*	55		
Hangö ...	1010.6	63	-	0	c	1010.3	0	66	+9	-	0	*	b	*	-	*	52		
Riga ...	1009.3	66	-	0	b	1008.6	0	64	+1	-	0	*	o	*	-	*	61		
Petrograd ...	1008.6	70	W	3	b	1008.6	0	68	-4	W	2	NE	b	*	-	81	63		
Moscow ...	1005.3	61	WSW	1	b	1005.9	0	64	+7	W	2	*	b	*	1	*	57		
Kiev ...	1012.3	66	-	0	b	1011.3	+1	64	0	WNW	3	*	r	*	-	*	61		
Kharkov ...	1011.5	63	-	0	b							*	*	*	-	*	.		
Kishinev ...	1015.5	75	NW	2	b	1015.4	0	72	+13	N	1	*	f	*	3	*	61		
Elisabetgrad ...	1002.4	68	-	0	b	1013.2	0	68	+4	-	0	*	b	*	-	*	55		
Nicolaiev ...	1013.2	73	NW	2	b	1014.6	*	68	-2	-	0	*	b	*	-	*	63		
Odessa ...	1014.4	77	N	2	b	1014.7	+1	75	+2	N	2	*	o	*	-	*	68		
Tarkhankout ...	1014.4	73	SW	4	b	1014.7	*	77	+4	NW	1	*	b	*	-	*	68		
Soukhom ...	1012.7	72	-	0	c	1013.7	+1	75		-	0	*	c	*	14	*	64		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.		
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.			
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.					
Scotland.	{ Oban ... ..	0.0	4	5	53	49	r	0	0.0	England, E.	{ Lowestoft ... ..	-	0.1	65	52	o.c	c.bcp	3.3	
	{ Banff ... ..	1.0	1	1	58	50	c.bc	c.or.o	0.5		{ Felixstowe ... ..	9.1	5	65	52	o.bc	r.f.bc	2.5	
	{ Carnoustie ... ..	1.2	*	*	57	51	r	o.bcp	0.0		{ Walton-on-Naze ... ..								
	{ St. Andrews ... ..	-	1	-	58	49	op	op	0.2		{ Southend-on-Sea ... ..	7.0	-	4	67	52	o.c.bc	or.cd.c	3.4
Eng. N.E.	{ Harrogate ... ..	11.6	-	-	61	45	c.bc	c.o	5.3	England, S.E.	{ Margate ... ..	10.8	-	3	65	51	c	b.c.r.b	3.7
	{ Skegness ... ..	13.0	-	2	63	47	bcp	p.bcm	5.9		{ Ramsgate ... ..	11.2	-	1	64	47	o	op.bc	3.7
Eng. N.W.	{ Morecambe ... ..	-	-	1	58	50	-	-	1.9		{ Hastings ... ..	*	*	*	62	51	op.bc	bc	5.1
	{ Blackpool ... ..	-	-	-	-	-	-	-	-		{ Eastbourne ... ..	14.7	-	1	61	54	op.r.bc	bcp	5.6
	{ Southport ... ..	10.7	0.3	0.3	58	49	c.op.c	c.d.r	2.9		{ Seaford ... ..	*	*	*	61	54	o.or	b	6.3
Midlands.	{ Buxton ... ..	-	-	-	-	-	-	-	-	England, S.W.	{ Brighton ... ..	-	-	-	-	-	-	-	
	{ Leamington Spa ... ..	9.3	-	1	64	50	c.bcp	b.c.cp	6.5		{ Worthing ... ..	13.7	1	2	63	50	r.c	bc	4.8
	{ Malvern ... ..	-	-	-	63	50	bc	bc	5.0		{ Littlehampton ... ..	13.5	-	1	63	49	o.bc	bc	5.2
	{ Ross-on-Wye ... ..	-	-	-	65	49	c.bc	p.bc	4.9		{ Bognor ... ..	-	-	-	-	-	-	-	
Wales.	{ Rhyl ... ..	9.7	-	1	58	51	bc.c	cp.c	2.7		{ Bournemouth ... ..	*	*	*	66	53	c	c	7.5
	{ Colwyn Bay ... ..	9.5	*	*	56	52	c	bcp	2.0	{ Weymouth ... ..	*	*	*	68	54	c.b	b.bc	9.7	
	{ Llandudno ... ..	10.3	*	*	56	52	c.r	r	2.2	{ Torquay ... ..	1.0	-	3	64	50	op.bc	bc.c	9.8	
	{ Aberystwyth ... ..	8.0	*	*	57	53	r.o.c	c.ov	1.5	{ Paignton ... ..	-	-	-	-	-	-	-		
	{ Tenby ... ..	-	-	-	61	55	-	-	4.5	{ Penzance ... ..	*	4	0.3	64	50	bcp	bc	9.0	
											{ Newquay ... ..	4.8	1	-	62	50	b	b	10.5
											{ Bude ... ..	6.2	5	-	64	51	bc	b	9.2
											{ Ilfracombe ... ..	-	-	-	-	-	-	-	
											{ Weston-s-Mare ... ..	*	-	-	63	54	b.bc.b	b.bc	10.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1484. Joules.	Average Rate. 25.3 Milliwatts.	Max. Rate. 96 Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.					
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY																
%	%	Hr.	° F.	° F.	° F.	mm.‡				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obsy.) ...	72	72	5.1	70	53	47	1	c bcp	cp	bc. o						
City (Bunhill Row) ...	*	*	*	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	76	78	5.5	66	55	53	1	or bc	o	o bc. o						
Camden Sq. (Brit. Rainfall)	53	71	5.4	70	54	51	1	c. bc	or bc	*						
Hampstead (Reservoir) ...	*	72	4.9	65	52	38	1	bcp	bc. o	o						
S. Kensington (Museum Grounds)	*	67	4.8	67	54	48	2	c	c bcp	c og. c						
Richmond Park	*	c	4.5	*	*	*	*	*	*	*						
Kew. (See front page.)	*	*	*	*	*	*	*	*	*	*						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																

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

11th & 12th July, 1916.	Sunrise, Noon, Sunset.		
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.44	11.53	8.05
Greenwich ...	3.51	12.5	8.12
Wick ...	3.23	12.17	9.10
Valencia ...	4.35	12.46	8.58

## NOTES ON YESTERDAY'S WEATHER.

Afternoon temperatures below the normal were general, under 60° in numerous instances. Showers fell in many localities, and a thunderstorm visited Clacton. There were good sunshine records in the south-west, elsewhere generally small.

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

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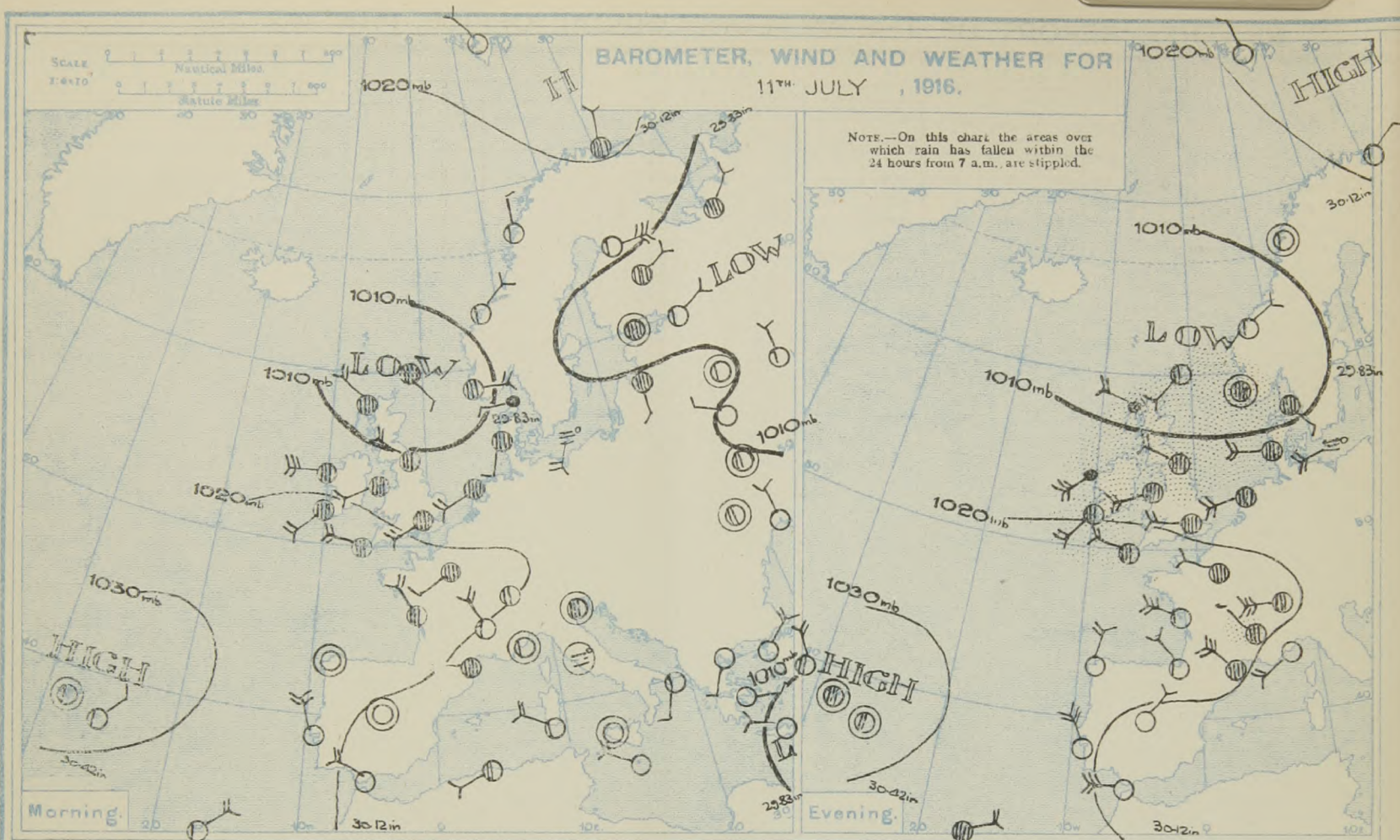
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 194

Wednesday

12<sup>th</sup> July

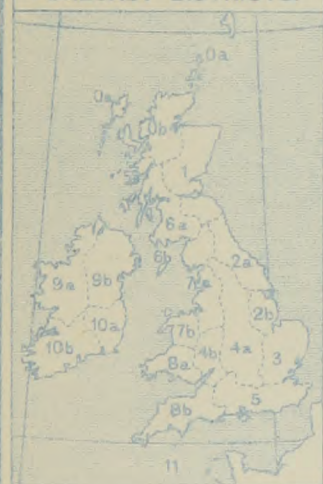
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun shine for Yester- day. Hours.					
	Barom. Milli- bars at M.S.L.	Temp. °F.	Wind.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		Weather.								
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night						
BRITISH ISLANDS.																										
Lerwick ...	10076	53	SSW	2	bc	10081	0	51	0	NNE	2	-	om	1	3	54	47	omp	om.c.bc	om	*					
Deerness (Orkney) ...	10084	54	?	4	c	10071	*	52	-1	N	3	-	oz	1	9	58	50	op.d	o.c.	c.op	4.1					
Stornoway ...	10098	55	WNW	3	odp.	10084	-1	53	+1	NW	3	-	o	3	1	58	50	o.c	codp	odp	0.8					
Castlebay (Barra Isd.) ...	10123	54	WNW	3	o	10083	-1	52	+1	E	3	-	od	3	5	58	50	ro	op.	opr	0.0					
Glasgow ...	10129	54	W	3	cm	10089	-3	52	+1	E	1	-	omr	*	4	55	50	omdp	omdp.c	omomr	0.0					
Eskdalemuir ...	10132	52	W	4	o	10094	-3	53	+4	SSW	3	-	or	*	9	55	48	oopo	oopo	oor	0.0					
Malin Head ...	10140	52	SW	6	omd	10075	-3	56	+3	SW	2	-	fd	2	6	56	50	cg	omd	fr	0.7					
Blacksod Point ...	10156	55	SW	5	omd	10068	-2	53	+1	SW	4	-	ofr	3	14	59	52	om	omd	ofd	*					
Valencia ...	10197	60	SSW	3	c	10116	-1	59	+2	SW	4	-	o	4	13	64	56	o.c.p.	c.o.	c.o.r.o	1.3					
Roche's Point																										
Roche's Point ...	10211	60	SW	3	o	10130	*	59	+5	EW	3	-	o	3	7	62	54	op	o.	o.r.o	*					
Birr Castle ...	10184	59	W	3	o	10095	*	57	+3	SW	1	-	r	*	8	62	53	op	c.o.	c.or	0.3					
Donaghadee ...	10154	56	WNW	4	ogmgp	10093	-2	56	+2	SW	3	-	omr	3	4	60	53	cgp	cgp	omr	*					
Liverpool (Bidston) ...	10165	58	WSW	4	o	10128	-3	57	+2	SW	3	-	o	3	-	61	54	o.c	bc	o	1.2					
Holyhead ...	10174	57	WSW	4	cg	10120	-2	55	+1	SW	6	-	ofe	5	1	60	54	o.c	og	oporf	0.4					
Pembroke (St. Ann's) ...	10216	57	WSW	4	c	10163	-3	56	+1	SW	4	-	r	3	-	59	55	bc	c	c	3.1					
Scilly (St. Mary's)																										
Scilly (St. Mary's) ...	10234	60	WNW	3	c	10184	-5	57	0	SSW	4	-	op	5	2	65	55	c.bc	bc.c	bc.c.o	9.5					
Falmouth ...	10229	61	NNW	3	bc	10185	-4	60	+3	SSW	5	-	o	*	Trace	64	51	op.o	og.c.b	bc.o	3.6					
Jersey (St. Aubin) ...	10234	61	W	4	o	10222	*	58	0	WSW	4	-	c	3	-	64	56	o.b.c.c	o.c.o	o.c	8.0					
Portland Bill ...	10208	58	W	4	bc	10210	-1	57	0	W	5	W	bc	3	-	60	54	bc	bc	bc.c	*					
Dungeness ...	10188	60	SW	3	ou	10193	0	59	+1	SW	4	-	ou	4	-	65	56	c.o	c.c.o	c.c.o	*					
Dover ...	*	*	*	*	*	10189	0	57	+2	SW	3	SW	o	4	-	64	53	o.c	c.bc.c	c.o	1.0					
Wick																										
Wick ...	10088	55	NW	3	c	10078	0	52	0	WNW	2	W	o	1	0.2	58	47	o.bc	bc.c	opd	*					
Nairn ...	10096	58	W	4	cg	10085	*	52	-1	o	o	-	cg	1	2	63	50	c.b.g.c	bed.c	p.r.c	2.9					
Aberdeen ...	10100	56	o	0	o	10084	-1	55	+1	o	o	-	o	1	6	61	52	bc.c.p	c.op	c	1.4					
Leith ...	10111	58	W	2	c	10101	-2	53	0	W	1	-	r	2	6	61	52	c.o.c	c.og.c	c.or	*					
Tynemouth ...	10124	57	WNW	3	omg	10107	-2	54	-1	SW	1	-	omr	3	4	60	53	om	omg	omr	*					
Spurn Head ...	10154	60	W	6	c.g.	10142	-1	55	-1	W	4	-	or	4	1	63	54	cg	cg	c.or	1.7					
Yarmouth																										
Yarmouth ...	10167	61	WNW	4	c	10167	-1	57	W	WNW	2	-	c	2	-	65	54	bc.c	c	c	2.9					
Clacton-on-Sea ...	10182	61	WSW	3	o	10181	0	57	+1	WSW	3	NW	o	3	-	65	55	o	o.c.o	o.c.o	0.5					
Nottingham ...	10168	59	W	3	o	10147	*	57	+2	W	3	W	c	*	Trace	62	55	c.o	o.c.p	o.c	1.1					
Benson (Oxon.) ...	10190	59	W	3	o	10180	-2	55	0	SW	3	-	bc	*	-	63	53	o	o	c.bc	*					
Sth Farnborough ...	10192	60	W	4	o	10182	-1	58	+1	SW	4	W	c	*	Trace	66	53	o	o	o.c	1.0					
London (Kew Obs.) ...	10193	61	W	3	o	10186	-1	59	+2	SW	3	-	o	*	-	64	56	o	o	o	0.7					
NORTHERN EUROPE.																										
Spitsbergen ...	10208	43	-	0	b	10207	+2	45	+6	NNW	4	*	b	*	*	45	39	<b>UPPER AIR.</b> South Farnborough. Pilot Balloon Ascent at ... 6.57 a.m.  3000 metres. W by S 14 m.p.s. 2700 " " 12 " " 2400 " " 9 " " 2100 " W.S.W. 10 " " 1800 " S.W. by W. 7 " " 1500 " W.S.W. 7 " " 1200 " " 13 " " 900 " " 11 " " 600 " S.W. by W. 10 " " 300 " W.S.W. 8 " " Surface - S.W. by W. 7 " "								
Vardö ...	10212	46	NE	1	b	10208	-1	43	-3	E	1	-	o	1	*	48	41									
Bodö ...	10106	61	-	0	b	10101	0	68	+5	E	4	-	b	2	-	68	57									
Christiansund ...	10082	59	NE	2	b	10046	0	57	+2	o	o	-	c	2	-	63	55									
Skudesnaes ...	10073	67	-	0	o	10061	+1	55	0	NW	2	-	c	1	2	59	52									
Færder (X'ania Fjord) ...	10090	57	SE	1	o	10077	0	55	+1	SW	2	SW	c	2	1	63	54									
The Scaw (Skagen) ...	10119	57	W	4	o	10113	0	55	-2	W	3	-	o	2	Trace	63	52									
Blaavands Huk ...	10124	61	W	3	o	10117	-2	57	0	WSW	3	-	o	*	-	66	55									
Copenhagen ...	10126	59	WSW	4	m	10126	-1	57	-2	WSW	3	-	m	*	-	61	54									
Bornholm ...	10126	59	WSW	4	m	10126	-1	57	-2	WSW	3	-	m	*	-	61	54									
FRANCE, &c.																										
The Helder ...	10166	59	WSW	4	o	10158	0	57	0	WSW	4	-	o	3	-	63	57	<b>GALES.</b> Duration and Extreme Force in British Islands.								
C. Gris Nez ...	10193	57	W	6	o	10193	0	57	0	WSW	6	*	o	4	-	61	57									
La Hève ...	10212	57	W	4	o	10220	*	55	-4	WSW	4	*	o	4	-	66	52									
Brest (St. Mathieu) ...	10256	63	WNW	3	b	10230	-1	57	-3	SW	4	*	bc	3	-	64	55									
Rochefort (Ile d'Als) ...	10252	63	WNW	5	b	10257	0	61	+2	WNW	3	*	b	*	-	68	57									
Biarritz ...	10257	68	NNW	2	b	10273	0	64	-	ESE	2	*	b	2	-	70	61									
Paris ...	10223	61	WNW	2	o	10234	0	59	+2	WSW	1	-	b	*	-	68	52									
Belfort ...	10206	63	W	6	c	10230	*	52	-8	WSW	4	*	o	*	-	68	50	<b>GALES.</b> Duration and Extreme Force in British Islands.								
Lyons ...	10223	64	NNW	1	bc	10238	*	59	-3	NNW	2	*	bc	*	1	68	52									
Nice ...	10111	70	SW	3	b	10133	+2	68	+4	o	o	*	b	o	-	82	61									
Perpignan ...	10216	68	NW	5	o	10234	+1	64	-4	NW	3	NW	b	o	-	79	59									
Sanguinaire ...	*	75	W	2	m	*	*	70	-5	W	4	*	m	5	-	82	63									
SOUTHERN STATIONS.																										
Corunna ...	10279	64	NNE	3	b	10273	0	57	-4	o	o	-	b	1	-	64	50						<b>GALES.</b> Duration and Extreme Force in British Islands.			
Madrid ...	10187	79	NE	4	b	10239	+1	63	-1	NE	2	-	b	*	-	81	54									
Lisbon ...	10227	68	NNW	5	b	10211	0	66	+5	NNW	4	-	b	5	-	70	61									
Azores ...	10322	*	o	o	c	10323	0	64	o	o	o	*	b	o	-	80	64									
Madeira ...	10242	72	ENE	3	o	10248	0	64	0	ENE	3	-	c	3	-	72	64									
Gibraltar ...	10193	69	W	5	b	10200	*	69	+4	E	6	*	b	4	-	76	63									
Malta ...	*	*	*	*	*	10128	+3	81	-5	NW	5	-	b	3	-	97	80									
Limassol ...	*	*	*	*	*	10024	0	93	+5	WSW	2	-	b	1	-	97	72									
Alexandria ...	10048	81	NNW	2	b	10053	+1	81	+4	o	o	-	b	o	-	90	74									
Cairo (Helwan) ...	10038	93	N	2	b	10043	0	82	+1	NW	1	-	b	*	-	104	73									
YESTERDAY'S REPORTS																										
20 h. G.M.T.																										
Venice ...	10092	77	-	0	m	10119	*	75	0	o	o	-	c	4	-	84	72	<b>GALES.</b> Duration and Extreme Force in British Islands.								
Pesaro ...	10109	79	-	0	b	10132	*	84	+9	SW	1	-	m	2	-	88	73									
Rome ...	10133	86	W	1	m	10146	*	81	+2	o	o	-	m	*	-	95	75									
Viesti ...	10126	81	SE	2	b	10122	*	91	+3	o	o	-	b	1	-	93	81									
Brindisi ...	10133	92	NE	1	m	10124	*	84	+3	o	o	-	b	o	-	90	70									
Cagliari ...	10119	93	E	5	c	10129	*	81	0	NW	3	-	b	3	-	93	66									
Palermo ...	*	*	*	*	*	10150	*	86	0	o	o	-	b	1	-	99	68									
Tripoli ...	10148	77	-	0	b	10150	*	82	-	o	o	-	b	o	-	88	68									
Algiers ...	10146	75	NE	2	bc	10171	+3	77	-1	WSW	2	-	bc	2	-	86	72									





### FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

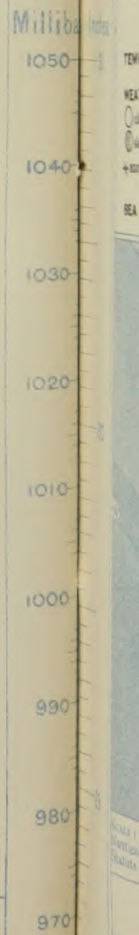
Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Calms and light variable to freshening South-Westerly breezes; dull, some rain, mist or fog; cool.          |
| 1  | b |   |   |
| 2  | a | } | Freshening South-Westerly breeze; dull, some rain, mist or fog; cool.                                       |
| 3  | b |   |   |
| 4  | a | } | Same as Nos. 0 and 1.   |
| 5  | b |   |   |
| 6  | a | } | Same as Nos. 2 to 5.  |
| 7  | b |   |   |
| 8  | a | } | Freshening South-Westerly breeze; sea moderate or rather rough; fair to dull, some rain, mist or fog; cool. |
| 9  | b |   |   |
| 10 | a | } |   |
| 11 | b |   |   |

#### FURTHER OUTLOOK.

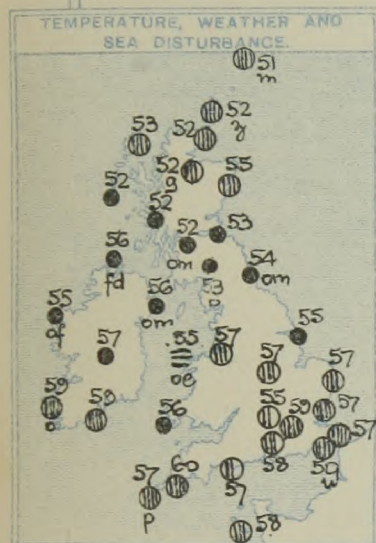




# SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 12<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The new depression off Ireland will maintain the unsettled type of conditions.



## EXPLANATION.

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

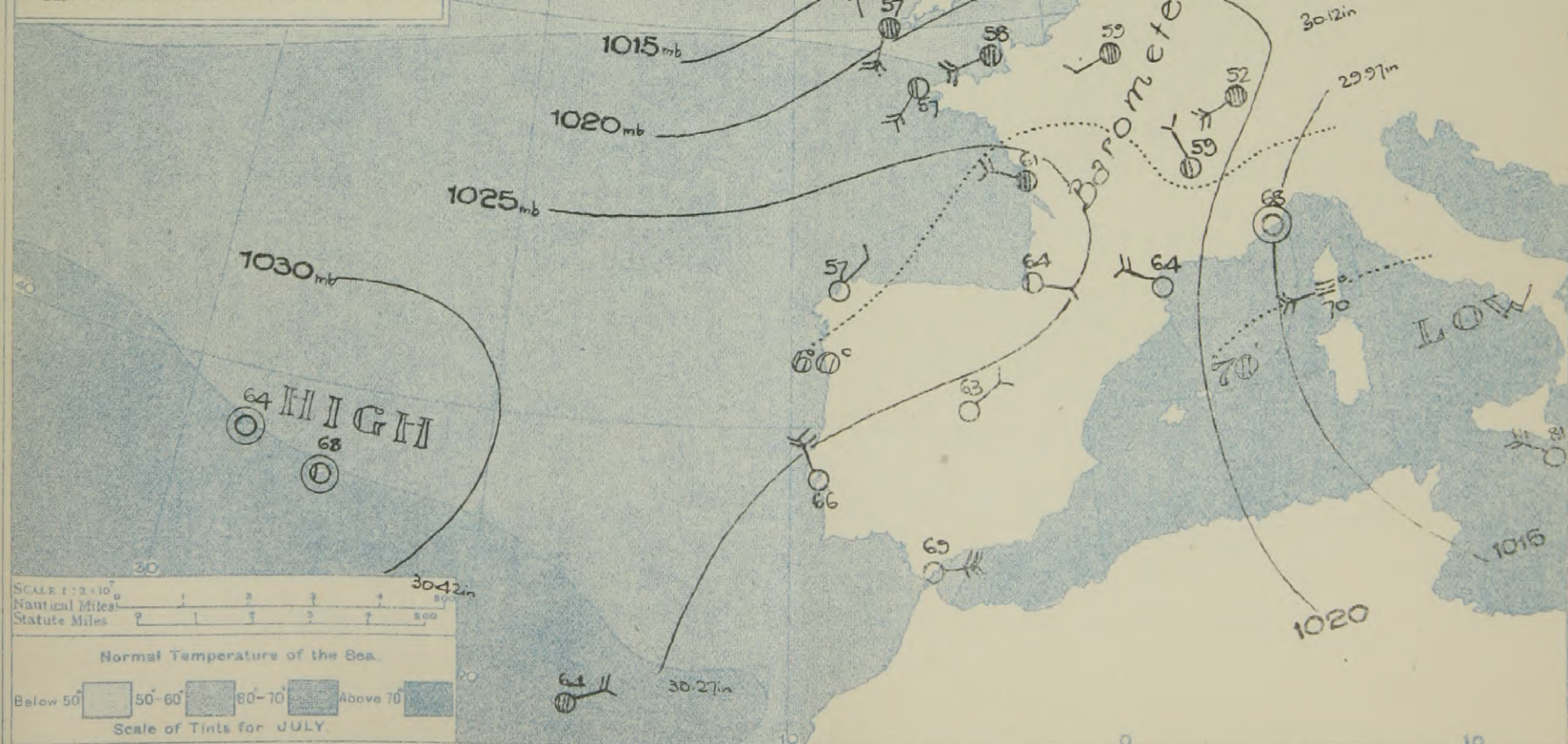
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

**WEATHER.**—Shown by the following symbols:—

clear sky. sky  $\frac{1}{2}$  clouded. sky  $\frac{3}{4}$  clouded. overcast sky. rain falling. snow. hail. mist. thunder. thunderstorm.

**SEA DISTURBANCE.**—Rough High .





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	10 <sup>th</sup> ... AT 9 P.M. LOCAL TIME					11 <sup>th</sup> ... AT 7 A.M. LOCAL TIME										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.								
Archangel ...	1007.8	50	NW	3	o	1007.0	0	46	-15	NE	2	*	o	*	-	*	43		
Gorki ...	1009.3	64	NNW	1	bc	1009.9	0	64	+1	NW	1	*	b	*	3	*	55		
Veliki Luki ...	1010.1	68	S	1	c	1010.7	*	64	0	-	0	*	b	*	-	*	59		
Hangö ...	1010.0	70	WSW	1	o	1009.1	-1	66	0	-	0	*	o	*	-	*	57		
Riga ...	1011.1	59	SW	1	o	1010.4	0	59	-5	SSW	1	*	o	*	1	*	57		
Petrograd ...	1009.1	72	NW	1	c	1008.7	0	72	+4	ENE	2	N	b	*	-	79	63		
Moscow ...	1006.9	66	N	2	b	1006.3	+1	64	0	N	2	*	b	*	-	*	59		
Kiev ...	1012.0	68	N	3	b	1012.4	0	64	0	-	0	*	bc	*	-	*	57		
Kharkov ...	1009.2	64	-	0	c	1009.6	+1	64	-	NW	2	*	b	*	-	*	57		
Kishinev ...	...	...	...	...	...	...	...	...	...	...	...	*	...	*	...	...	...		
Elisabetgrad ...	1011.7	72	NW	1	b	1011.4	+1	68	0	-	0	*	b	*	-	*	57		
Nicolaiev ...	1012.4	72	SW	2	b	1012.4	*	70	+2	N	2	*	b	*	1	*	63		
Odessa ...	1012.2	75	SW	2	b	1012.6	0	73	-2	SW	2	*	c	*	1	*	70		
Tarkhankout ...	1014.1	75	-	0	b	1012.6	*	75	-2	W	2	*	b	*	-	*	73		
Soukhoum ...	1014.7	75	-	0	bc	1014.4	*	73	-2	-	0	*	b	*	-	*	73		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 h.

STATIONS.	Sun- shine for 10 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 10 <sup>th</sup>	STATIONS.	Sun- shine for 10 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 10 <sup>th</sup>
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	F.	F.						Mm.	Mm.	F.	F.			
Scotland.									England, E.								
Oban ...	0.0	5	4	53	50	r o	o	0.0	Lowestoft ...	4.1	0.2	-	65	52	o.c	c.o.c	2.3
Banff ...	0.5	0.2	-	60	50	bc	bc	2.7	Felixstowe ...	2.6	-	-	64	52	o	o.bc.o	0.9
Carnoustie ...	0.0	*	*	63	53	f.c	acp	3.9	Walton-on-Naze ...	*	-	-	62	52	c	o.bc.c	0.3
St. Andrews ...	0.2	-	3	62	51	cp	cp	1.3	Southend-on-Sea ...	4.0	1	-	69	53	o	o	0.5
Eng. N.E.									England, S.E.								
Harrogate ...	5.3	0.2	-	59	49	o.c	bc.c.o	0.7	Margate ...	3.7	-	-	64	53	o	c	0.3
Skegness ...	5.9	-	-	63	51	ou.bc	ou.c	2.1	Ramsgate ...	5.3	-	-	62	50	o	o	0.6
Eng. N.W.									Hastings ...	5.1	-	-	63	50	m.c	bc.o	1.5
Morecambe ...	1.9	0.3	1	60	52	-	-	1.5	Eastbourne ...	7.3	0.1	-	63	53	c.o.bc	bc.oq	2.1
Blackpool ...	...	...	...	...	...	...	...	...	Seaford ...	7.1	-	-	63	54	o.c	o	1.9
Southport ...	2.9	1	-	62	53	od.c	o.c.bc.c	1.9	Brighton ...	...	...	...	64	49	c	c	2.0
Midlands.									Worthing ...	6.1	-	-	64	48	*	o	0.3
Buxton ...	*	*	*	56	48	bc	bc	0	Littlehampton ...	7.5	-	-	64	48	*	o	0.3
Leamington Spa ...	6.6	-	-	62	54	c.bc	c.bc	1.5	Bognor ...	*	-	-	63	50	o.bc	bc	0.6
Malvern ...	...	...	...	...	...	...	...	...	Bournemouth ...	7.5	-	-	65	52	o.c	c	1.0
Ross-on-Wye ...	4.9	-	-	65	52	bc	b.bc	0.7	England, S.W.								
Wales.									Weymouth ...	9.7	-	-	67	54	c	c	0.6
Rhyl ...	2.8	-	-	63	52	bc.c	bc.c	2.0	Torquay ...	9.8	-	-	64	53	o.c	c.o	1.3
Colwyn Bay ...	2.0	-	-	61	53	c.bc	bc	0.8	Paignton ...	*	-	-	65	49	o.c	c	1.1
Llandudno ...	2.2	*	*	61	54	c	c	1.1	Penzance ...	11.1	0.3	-	65	54	c	bc	4.0
Aberystwyth ...	1.5	*	*	58	54	r.o.c	c.o	0.0	Newquay ...	13.2	1	-	62	55	c	c	2.3
Tenby ...	5.7	-	-	63	59	bc	bc.c	2.3	Bude ...	10.9	-	-	63	57	c	c	3.7
									Ilfracombe ...	...	-	-	61	49	c.bc	bc.c	2.0
									Weston-s-Mare ...	11.0	-	-	63	55	bc.b	b.bc	4.3

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.		
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1043	Joules.	17.8	Milliwatts.	83	Milliwatts.	
				Max.	Min.												
				24 HOURS ENDED 9 h. To-Day													
%	%	Hr.	F.	F.	F.	mm. &											
Greenwich (Royal Obsy.) ...	60	60	1.3	69	54	50	-	o	o	o bc b							
City (Bunhill Row) ...	*	*	1.2	*	*	*	*	*	*	*							
Westminster (St. James's Pk.)	53	56	1.6	65	55	54	-	ou bc	bc	o bc							
Camden Sq. (Brit. Rainfall)	49	57	2.4	70	55	53	-	o c	bc.o	*							
Hampstead (Reservoir) ...	*	71	2.4	64	52	41	-	o	bc	bc							
S. Kensington (Museum Grounds)	*	57	1.4	64	55	51	-	bc c	c.o.c.o	c.o							
Richmond Park ...	*	*	*	*	*	*	*	*	*	*							
Kew. (See front page.)	*	*	0.7	*	*	*	*	*	*	*							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																	
											Hours of Observation G.M.T.						
											Morning.	Evening.				Morning.	Evening.
											h.	h.				h.	h.
British Isles ...											7	18	Corunna ...	...	7	16	
France ...											7	18	Madrid ...	...	8	16	
Norway ...											7	18	Lisbon ...	...	7	21	
Denmark ...											6	17	Azores ...	...	8	17	
Holland ...											6	17	Madeira ...	...	7	21	
Italy ...											7	20	Malta ...	...	8	—	
Egypt ...											6	18	Limassol...	...	6	—	

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

12 <sup>th</sup> to 13 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.45	12.58	8.0
Greenwich ...	5.58	12.5	8.0
Wick ...	6.25	12.17	7.9
Valencia ...	4.56	12.45	8.87

## NOTES ON YESTERDAY'S WEATHER.

Low afternoon temperatures again ruled, many below 60°. Rain fell in most districts, generally in light showers. Bright sunshine records as a rule were small, many none or less than an hour.

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; i. 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.

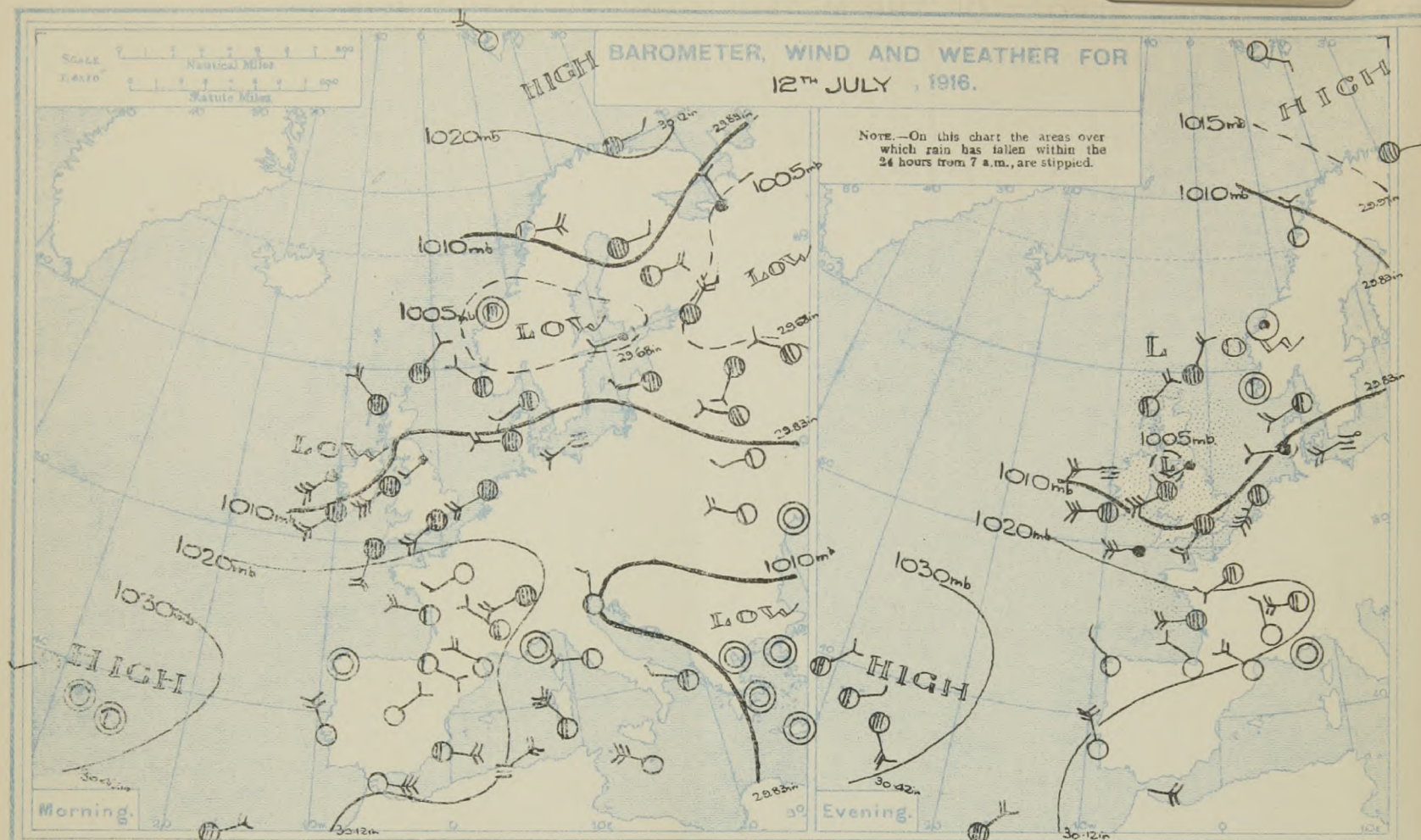
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mm.	inches.	mm.	inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	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

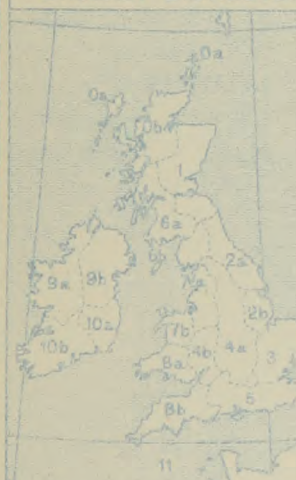
\* The barometric change is expressed in half-millibars.





### FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

Light to moderate North-Westerly and Northerly breezes; dull to fair, some local showers; cool.

Brisk South-West wind, veering North-Westerly and moderating; dull, some showers; fairer later; cool.

Same as Nos. 0 to 2.

Moderate North-Westerly breeze; sea moderate to rather rough; dull to fair, some showers, local mist or fog; cool.

#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 13<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The North Sea depression is passing eastward, and in its rear a more Northerly type of conditions will become general over the British Isles.



## EXPLANATION.

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

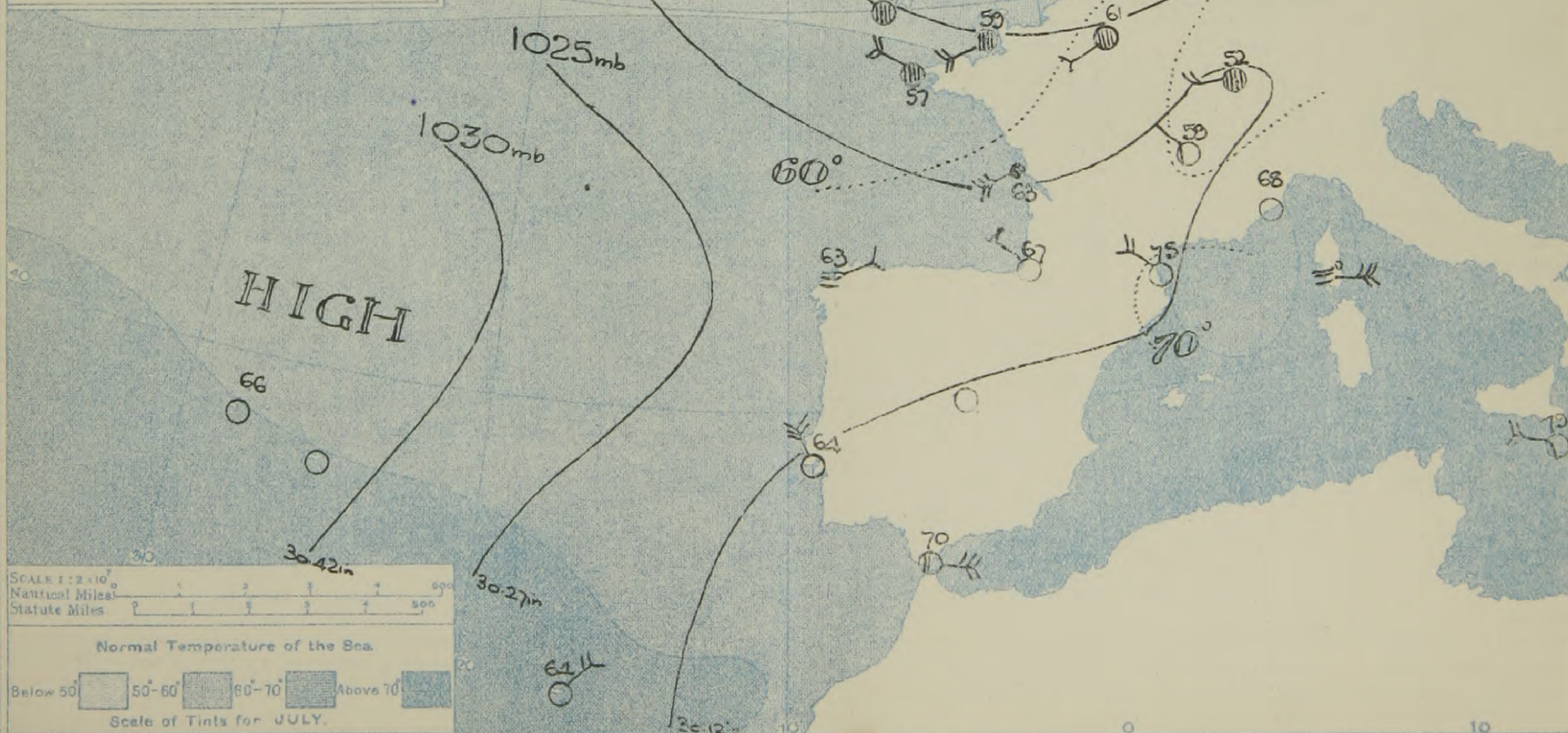
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 3/4 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





# REPORTS FROM RUSSIA FOR YESTERDAY.

Archangel ...	1007.5	54	N	3	o	1004.8	-2	54	+8	N	2	*	r	*	*	1	*	54
Gorki ...	1008.3	64	SSW	1	bc	1007.4	-2	63	-1	NW	2	*	c	*	*	*	*	55
Veliki Luki ...	1006.9	61	SW	1	o	1007.0	*	62	-2	SW	2	*	o	*	*	*	*	59
Hangö ...	1008.7	61	NW	1	r	1004.8	*	61	-5	W	2	*	r	*	*	*	*	59
Riga ...	1006.3	66	ENE	3	o	1009.2	o	57	-2	W	1	*	o	*	*	*	*	54
Petrograd ...	1006.9	66	WNW	1	bc	1005.0	-1	59	-13	NE	4	*	o	*	*	3	75	55
Moscow ...	1011.5	68	-	o	c	1006.0	-1	61	-3	WSW	1	*	c	*	*	1	*	59
Kiev ...	1009.6	66	-	o	b	1010.1	-1	68	+4	W	1	*	b	*	*	-	*	63
Kharkov ...	1011.3	77	SE	3	o	1010.6	+1	68	+4	-	o	*	bc	*	*	-	*	67
Kishinev ...	1011.0	72	N	1	bc	1012.3	o	70	0	NW	3	*	b	*	*	-	*	66
Elisabetgrad ...	1010.6	73	SW	2	c	1011.7	o	68	o	-	o	*	b	*	*	-	*	55
Nicolaiev ...	1012.7	75	SW	2	o	1011.1	*	70	o	-	o	*	b	*	*	-	*	64
Odessa ...	1011.5	72	-	o	bc	1011.0	o	75	+2	NNW	2	*	b	*	o	4	*	68
Tarkhankout ...	1013.3	72	-	o	o	1010.9	*	77	+2	SSE	2	*	c	*	*	-	*	70
Soukhom ...						1012.0	+1	68	-5	NE	2	*	c	*	*	2	*	66

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 17h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for 17h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.			
Scotland.									England.								
Oban ...	0.0	3	0.3	65	50	r o	bc	3.4	Lowestoft ...	2.3	-	0.2	69	54	bc.c	op.o	3.7
Banff ...	3.2	1	-	59	50	bc	bc.b	7.9	Felixstowe ...	0.9	-	1	67	54	o.bc	bc.or	3.9
Carnoustie ...	3.9	*	*	61	54	f.c	b	4.0	Walton-on-Naze ...	0.3	-	3	63	52	bc	o.crc	3.1
St. Andrews ...	2.6	0.3	-	59	50	c	c	0.3	Southend-on-Sea ...	0.5	-	-	65	55	bc.c.o	op	3.0
England, N.E.									England, S.E.								
Harrogate ...	0.7	1	3	57	53	op	or	0.0	Margate ...	0.3	-	-	66	55	bc	c	3.7
Skegness ...	2.1	0.1	0.5	64	54	om.c	cm.o	0.4	Ramsgate ...	0.6	-	-	65	52	o.bc	bc.or	2.7
England, N.W.									Hastings ...	1.5	*	*	63	54	o.bc	bc.op	3.6
Morecambe ...	1.5	7	3	59	54	-	-	0.0	Eastbourne ...	2.1	-	0.5	63	56	bc.o	c.bc.o	4.4
Blackpool ...									Seaford ...	1.9	-	-	62	55	bc	o.or	3.9
Southport ...		1	4	60	55	or	r.o	0.0	Brighton ...								
England, S.W.									Worthing ...	2.0	-	1	63	54	bc	cr.o	3.1
Buxton ...									Littlehampton ...	0.3	-	1	62	53	-	-	3.8
Leamington Spa ...	1.5	-	2	63	54	op.r	r.o	1.1	Bognor ...								
Malvern ...		-	6	62	53	cr	r.o.c	0.0	Bournemouth ...	1.0	*	*	65	53	c.or	or	2.2
Ross-on-Wye ...	0.7	-	6	62	53	bc.c.or	orm	0.2	Weymouth ...	0.6	*	4	66	55	c.b.or	r.om	3.8
Wales.									Torquay ...	1.3	-	0.4	65	54	c.o	c.op	7
Rhyl ...	2.0	-	1	67	56	c.op	p.bc.c	0.7	Paignton ...								
Colwyn Bay ...	0.8	-	-	67	56	c.b.op	q.bc.bc	3.0	Penzance ...	6.4	3	1	64	54	or.c	cm	0.4
Llandudno ...	1.1	*	*	65	56	c	c	2.0	Newquay ...	3.2	-	1	63	51	bc.d.bc	o	1.3
Aberystwyth ...	0.0	*	*	61	56	r.o	o.c	0.0	Bude ...	3.7	0.5	0.4	63	60	o	o	0.4
Tenby ...	2.3	5	4	63	54	r	bc.o	0.3	Ilfracombe ...	2.0	*	*	63	51	c.op	op.o	0.8
									Weston-s-Mare ...	4.4	-	3	64	54	b.bc.cr	cr.c	0.6

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yesterday.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.			
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1039	Joules.	478	Milliwatts.	81	Milliwatts.		
				Max.	Min.													
				24 HOURS ENDED 9 h. TO-DAY														
				%	%												Hr.	F.
Greenwich (Royal Obsy.) ...	86	87	2.7	67	56	55	0.3	bc	o.p	o.or.o	Hours of Observation G.M.T.							
City (Bunhill Row) ...	*	*	2.1	*	*	*	*	*	*	*	Morning.	h.	Evening.	h.	Morning.	h.	Evening.	h.
Westminster (St. James's Pk.)	76	85	2.4	68	57	57	0.3	bc.o	or	bc.o	British Isles ...	7	18	Corunna ...	7	16		
Camden Sq. (Brit. Rainfall)	84	83	2.8	67	57	56	1	b.c	or.od	*	France ...	7	18	Madrid ...	8	16		
Hampstead (Reservoir) ...	*	87	2.5	63	54	46	1	o.od	od	o	Norway ...	7	18	Lisbon ...	7	21		
S. Kensington (Museum Grounds)	*	82	2.1	65	54	51	1	bc.c	c.o.d	od.o.od	Denmark ...	6	17	Azores ...	8	17		
Richmond Park ...	*	*	1.8	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21		
Kew. (See front page.)	*	*	2.2	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																		

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

13 <sup>th</sup> July, 1916.	Sunrise.			Noon.			Sunset.		
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	3.46	11.58	8.11	3.47	11.59	8.10	3.48	11.58	8.11
Greenwich ...	3.59	12.5	8.12	4.0	12.6	8.11	4.1	12.7	8.12
Wick ...	3.27	12.7	9.8	3.28	12.8	9.7	3.29	12.9	9.8
Valencia ...	4.37	12.6	8.56	4.38	12.7	8.55	4.39	12.8	8.56

## NOTES ON YESTERDAY'S WEATHER.

Many afternoon temperatures were again under 60°. Showers fell generally, 19 mm. of rain at Tynemouth. As a rule the sunshine records were very small, but Castlebay had nine hours.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. 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-baze, or smoke.

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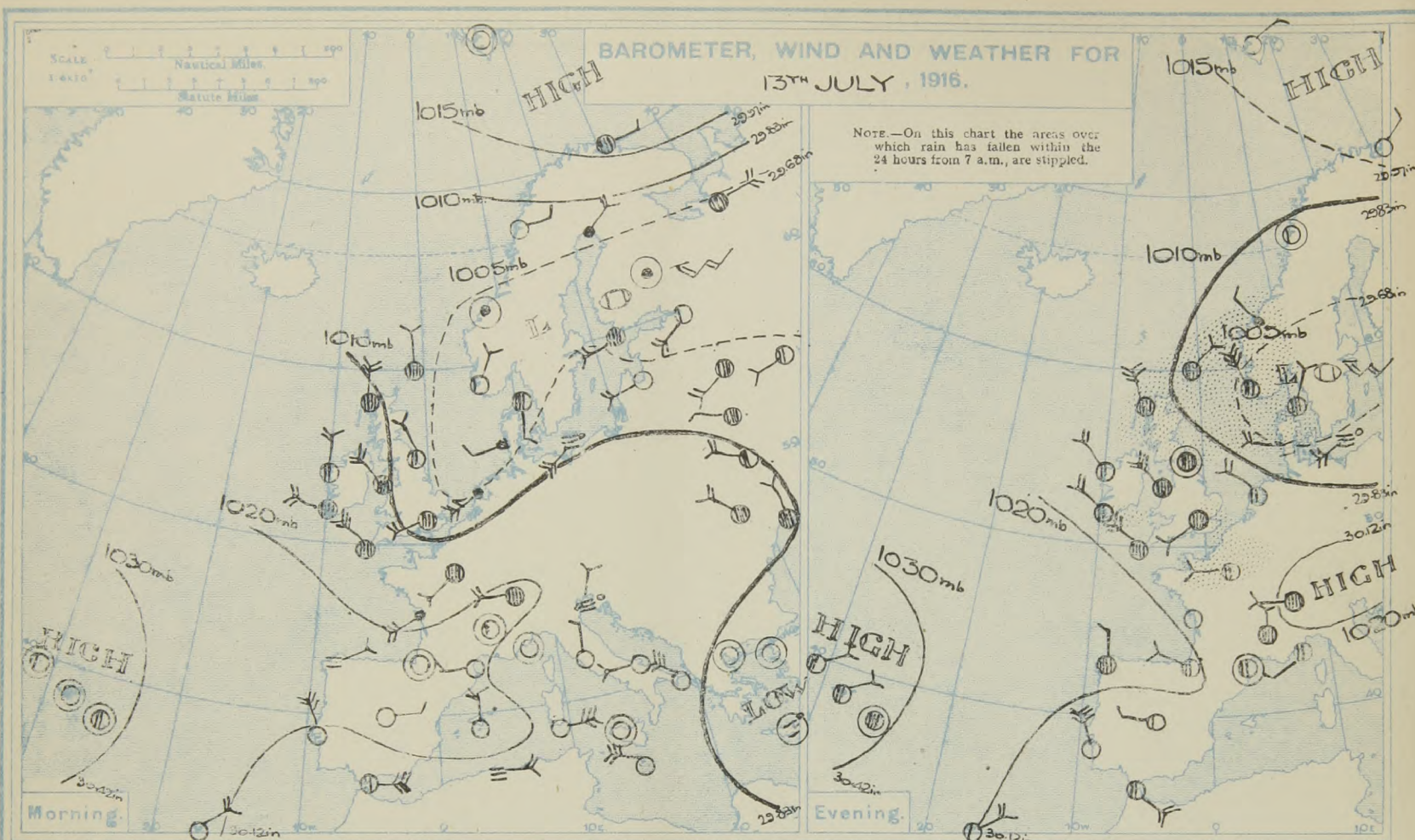
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 196

Friday

14th July

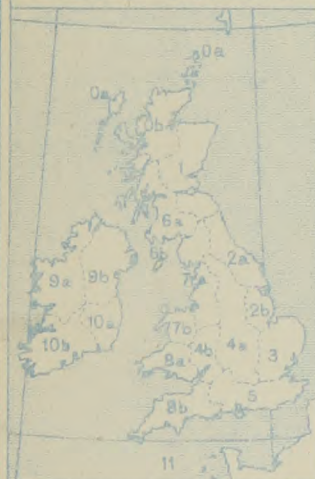
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yest- day Hours.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	10085	53	NE	2	O	10125	0	50	0	NW	4	-	om	3	03	57	48	o.b.c.	b.c. om.	om.	*
	Deerness (Orkney) ...	10095	51	NW	4	opd	10135	*	50	-1	NW	4	-	O	3	1	53	49	opd	opd.	opd fo	0.0
	Stornoway ...	10141	51	NNW	5	O	0172	+1	51	-1	NW	3	-	O	3	0.3	55	50	O	opd	O	0.0
	Castlebay (Barra Isd.) ...	10161	54	WNW	3	O	10187	+1	53	0	W	3	-	O	3	Trace	58	51	O	b.c.	O	7.1
	Glasgow ...	10129	58	NW	2	og	10160	+2	53	0	W	2	NW	b.c.	*	Trace	66	48	b.b.c.	b.c.c.	op.c.b.c.	8.8
	Eskdalemuir ...	10121	54	-	0	O	10159	+2	51	-2	NNW	2	N	C	*	1	63	45	b.c.c.u.	ou.opl	a.c.	3.9
	Malin Head ...	10163	54	N	4	om	10188	+1	54	+1	NW	4	W	om	3	-	56	51	om	om	om	3.3
	Blacksod Point ...	10191	57	NW	3	b.c.	10216	0	54	0	NW	2	NW	b.c.m.	2	-	58	50	b.c.	b.c.	b.c. om	*
	Valencia ...	10189	59	NW	3	b.c.	10225	+2	56	0	N	1	N	b	3	0.1	62	51	o.b.c.	c.b.c.	b.c. b.c.	4.7
	Rochester Point ...	10175	61	NW	2	C	10217	*	53	-4	NW	2	N	b	2	0.2	65	50	O	a.c.	b.c.w.	*
	Birr Castle ...	10164	60	NW	1	C	10207	*	53	-2	NW	2	-	O	*	-	64	50	C	C	a.o.	4.8
	Donaghadee ...	10155	56	NW	4	b.c.m.	10184	+2	53	0	NW	4	-	om	3	-	59	50	b.c.m.	b.c.m.	b.c.m. om	*
	Liverpool (Bidston) ...	10132	57	W	4	b.c.	10161	+2	55	0	WNW	4	-	C	3	-	60	53	a.c.	b.c.b.	b.c.	5.2
	Holyhead ...	10149	56	NW	5	og	10184	+2	54	-1	NW	5	W	og	4	-	63	52	f.	c.b.c.	b.b.c.	6.3
	Pembroke (St. Ann's) ...	10213	57	NW	2	b.c.	10172	+1	54	-1	N	3	-	O	2	0.1	62	52	c.p.d.	c.b.c.	b.c.c.	3.4
	Scilly (St. Mary's) ...	10179	59	NW	4	O	1207	+1	58	+1	N	3	NW	om	4	-	64	55	O	O	o. om	0.2
	Falmouth ...	10169	60	NW	4	CX	10185	+2	59	+3	N	3	-	b.c.	*	Trace	66	55	c. om	o. om	om.b.c.	1.5
	Jersey (St. Aubin) ...	10169	59	WSW	5	og	10173	*	59	0	WNW	3	-	O	3	0.3	63	55	op. og	c. og	og. fo	0.9
	Portland Bill ...	10134	58	WSW	5	C	10160	+1	57	0	WNW	4	-	b	4	-	60	54	C	C	b.c.c.	*
	Dungeness ...	10125	59	WSW	5	C	10127	+1	55	-5	NNW	3	NW	og	2	0.2	62	54	O	o.b.c.	c. op.	*
Dover ...	*	*	*	*	*	10131	+3	54	-5	WNW	4	W	O	4	8	63	54	c. op.	c. op.	o. c. c.	0.5	
Wick ...	10099	50	NW	4	T	10159	+2	51	0	NW	4	-	m	2	1	63	49	om. pd	om. pd	d. om	*	
Nairn ...	10123	52	WNW	3	og	10158	*	51	-1	-	0	-	od	1	2	57	50	ogd	r. o.	p. o.	0.1	
Aberdeen ...	10107	54	NW	5	O	10146	+3	51	-1	NW	3	-	T	2	0.2	57	50	O	op.	op. pd	0.0	
Leith ...	10122	57	E	1	O	10152	+1	54	-1	NW	1	NW	C	2	-	65	52	b.c.c.	o.c.c.	o.c.	*	
Tynemouth ...	10117	53	-	0	om. pd	10146	+1	54	+1	NW	2	NW	om	3	5	58	52	om	b.c.p.	om	*	
Spurn Head ...	10125	55	S	3	C	10144	0	54	0	ENE	5	-	o. cr	4	-	61	50	b.c.	C	o. r.	8.6	
Yarmouth ...	10135	56	NE	2	O	10136	+2	56	-2	NE	4	-	b.c.	3	1	64	52	o. b.c.p.	b.c.o.	all. b.c.	4.5	
Clacton-on-Sea ...	10127	61	SSW	2	O	10132	+1	54	-5	NW	3	-	m	2	-	64	52	og	og	og. pd	0.0	
Nottingham ...	10117	62	SE	1	O	10153	*	52	-6	WSW	1	W	om	2	1	64	43	opg	opg.c	o.c.	0.6	
Benson (Oxon.) ...	10120	66	WSW	2	C	10154	+1	53	-5	NW	2	-	O	*	4	67	51	opd	C	o. r. o.	*	
St. Farnborough ...	10122	63	WSW	2	T	10149	+2	54	-4	WNW	3	-	oz	*	-	67	51	O	r. o.	o. c. c.	0.0	
London (Kew Obs.) ...	10125	64	WSW	2	O	10154	+3	55	-4	NNW	2	-	om	*	7	63	52	o. d. o. d.	o. d. o. d.	o. m. m.	0.0	
NORTHERN EUROPE.	Spitsbergen ...	10158	52	NE	1	b	10158	0	41	-9	N	4	*	b	*	*	52	39	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 6.45 A.M.  300 metres. NW by N. 5 m.p.s. Surface ... NW by W. 4.			
	Vardö ...	10168	47	NE	1	b	10150	0	52	+11	E	2	-	b.c.	2	*	52	39				
	Bodö ...	10086	61	-	0	b	10047	0	64	+6	E	4	-	C	2	-	59	?				
	Christiansund ...	10055	57	NW	1	T	10060	0	55	0	WNW	3	-	f	3	3	61	52				
	Skudesnaes ...	10038	57	NNW	6	C	10050	0	55	-6	NNW	4	-	O	2	7	61	54	RAINFALL. Equivalents of Millimetres in Inches.			
	Færder (X'aniafjord) ...	10012	57	NNE	2	C	10019	0	57	+2	W	3	-	r	3	3	61	55				
	The Scaw (Skagen) ...	10050	59	WNW	3	f	10075	0	55	-2	WNW	3	-	O	3	8	61	54				
	Copenhagen ...	10031	61	WSW	3	T	10071	0	57	0	W	3	SW	C	*	5	61	52				
	Bornholm ...	10061	59	SW	4	m	10078	+1	55	0	W	5	-	C	2	3	61	54				
	The Helder ...	10114	57	NW	3	b.c.	10118	0	54	-5	NNW	2	-	T	1	-	59	54				
FRANCE, &c.	C. Gris Nez ...	10133	58	WSW	6	O	10133	+1	57	0	NNW	4	*	O	3	3	59	55				
	La Hève ...	10154	54	WSW	5	O	10154	*	57	0	NW	4	*	O	5	-	66	52				
	Brest (St. Mathieu) ...	10191	61	WNW	3	C	10199	0	58	+1	NW	2	*	O	2	-	63	57				
	Rochefort (Ile d'Als) ...																					
	Biarritz ...	10207	70	NW	2	b.c.	10193	0	61	-2	NNE	4	*	O	2	-	73	61				
	Paris ...	10163	66	W	2	b.c.	10157	0	57	-4	SW	2	-	O	*	Trace	70	54				
	Belfort ...	10206	58	W	2	O	10180	*	54	+2	WSW	2	*	O	*	2	63	52				
	Lyons ...	10193	59	N	2	O	10177	*	63	+4	-	0	*	O	*	-	79	57				
	Nice ...	10153	68	SW	1	b.c.	10147	0	68	0	E	1	*	b	1	-	80	59				
	Perpignan ...	10176	73	-	0	b.c.	10175	0	70	+2	W	1	SW	O	*	-	86	59				
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
SOUTHERN STATIONS.	Corunna ...	10224	64	N	1	O	10211	0	61	-2	-	0	-	m	1	-	70	57				
	Madrid ...	10131	84	W	1	b	10154	+2	72	+2	-	0	W	b.c.	*	-	38	63				
	Lisbon ...	10173	72	NNW	6	b	10170	0	64	0	NNW	4	-	b	5	-	79	61				
	Azores ...	10339	*	NE	2	b.c.	10303	6	64	-2	N	1	*	b	0	-	75	63				
	Madeira ...	10200	72	NE	3	b	10195	0	66	+2	NE	3	-	b.c.	3	-	72	64				
	Gibraltar ...	10176	71	SE	4	b.c.	10149	*	69	-1	E	4	*	b	1	-	78	68				
	Malta ...	*	*	*	*	*	10159	-3	77	-2	NNW	3	-	b.c.	2	-	81	73				
	Limassol ...	*	*	*	*	*	10227	+1	88	-9	SSE	2	-	b	3	-	101	66				
	Alexandria ...	10055	81	NNW	3	b	10061	+1	82	0	W	3	-	b	2	-	92	79				
	Cairo (Helwan) ...	10042	? 75	N	2	b	10060	+2	82	+3	-	0	-	b	*	-	104	75				
YESTERDAY'S REPORTS					.....(24)....., 20 h. G.M.T										.....(24)....., 7 h. G.M.T							
MEDITERRANEAN.	Venice ...	10146	72	NE	2	m	10167	*	74	-1	NNE	2	-	m	4	Trace	79	?	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			
	Pesaro ...	10151	70	-	0	b	10166	*	73	+6	W	2	-	b	4	-	82	?				
	Rome ...	10159	72	SSE	3	b	10169	*	72	-3	N	1	-	b	*	-	82	61				
	Viesti ...	10120	79	WSW	1	b	10156	*	79	-7	W	2	-	b	4	-	86	73				
	Brindisi ...	10123	79	WNW	4	b	10124	*	77	-7	NW	5	-	b	4	-	84	75				
	Cagliari ...	10182	84	NW	6	b	10194	*	75	-4	E	5	-	b	4	-	84	59				
	Palermo ...	10170	79	-	0	b	10177	*														





## FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

### FORECAST DISTRICTS.



### STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay 11

0 } Light to moderate North-Westerly to Northerly breeze; fair generally, some local showers and mist; cool.

1 }  
2 }  
3 } Light to moderate North-Westerly to Northerly breeze; local rain and thunder, then fairer; cool.

4 }  
5 }  
6 }  
7 }  
8 } Same as Nos. 0 and 1.

9 }  
10 }  
11 } Light to moderate North-Westerly to Northerly breeze; sea moderate, cloudy to fair or fine, local mist or fog; cool.

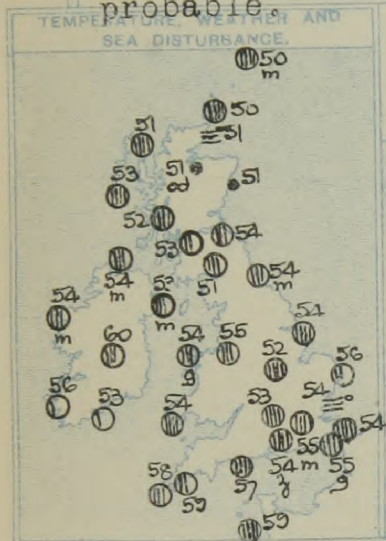
### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 14<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

With the passing eastward of the shallow depression off the Thames estuary, a general improvement in the conditions is probable.



## EXPLANATION.

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

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

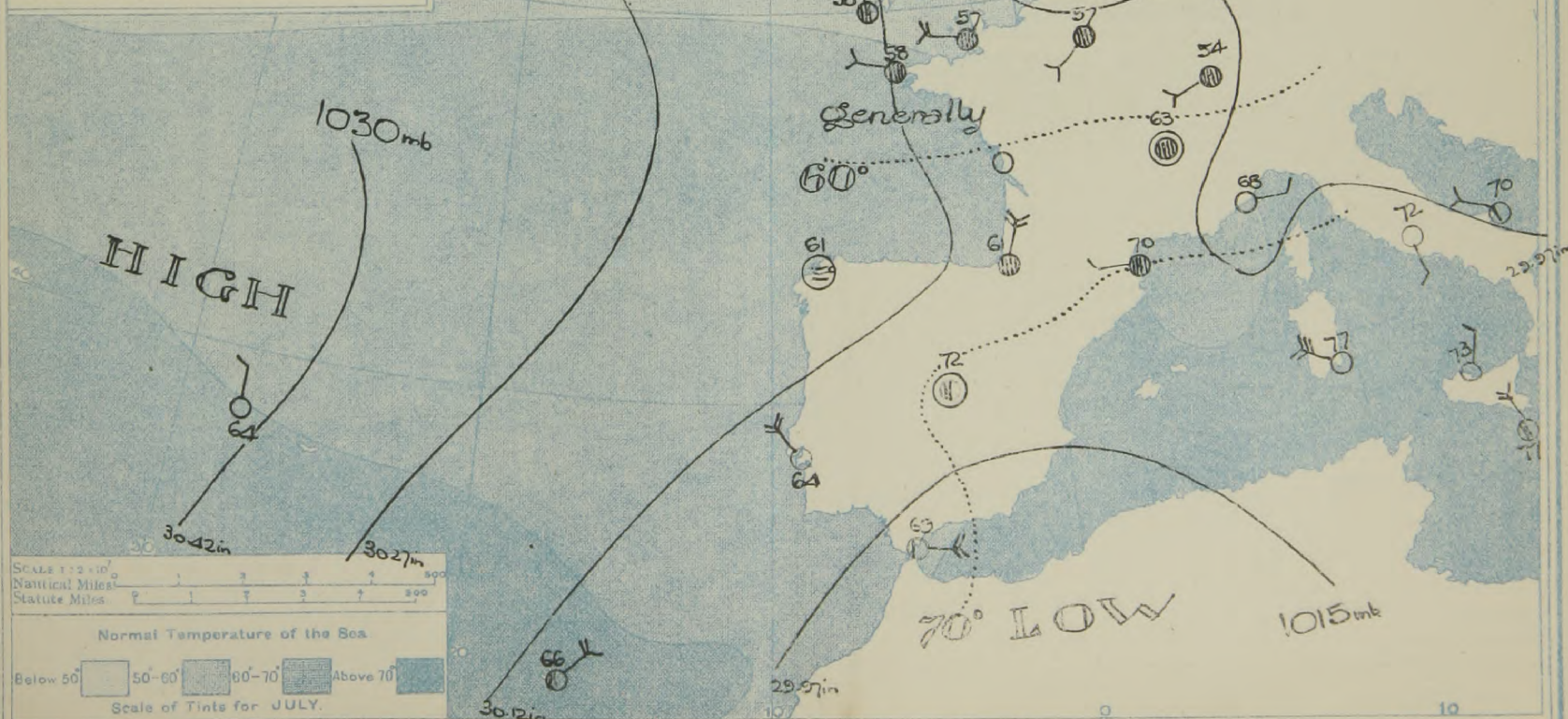
Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 2/3 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 ⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough High





REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	12 <sup>th</sup> AT 9 P.M. LOCAL TIME					13 <sup>th</sup> AT 7 A.M. LOCAL TIME.							Weather.	Sea 0-9.	Rain- fall. Multi- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.					
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.						
Archangel ...	1005.3	° F. 61	E	1	o	1004.2	+	° F. 63	+9	E	4	*	c	*	-	*	61
Gorki ...	1006.7	61	NW	1	o	.	.	.	.	.	.	*	.	*	.	*	.
Veliki Luki ...	.	.	.	.	.	1008.0	*	57	-5	SW	3	*	o	*	-	*	55
Hangö ...	1005.3	57	-	0	o	1003.1	-1	57	-4	WSW	3	*	o	*	1	*	55
Riga ...	1009.0	59	W	1	b	1008.4	-1	59	+2	WSW	2	*	o	*	-	*	50
Petrograd ...	1004.3	59	ENE	2	bc	1002.9	-1	57	-2	SW	3	-	b	*	-	66	52
Moscow ...	1005.3	63	SSW	1	c	1005.9	0	61	0	WSW	2	*	bc	*	1	*	55
Kiev ...	1008.4	66	NW	3	bc	1010.6	+3	63	-5	NW	3	*	bc	*	-	*	59
Kharkov ...	1008.2	68	-	0	b	1005.6	0	66	-2	SE	2	*	o	*	3	*	63
Kishinev ...	1011.5	68	SW	1	o	1012.9	+3	63	-7	NW	3	*	o	*	25	*	61
Elisabetgrad ...	1008.6	73	SW	2	r	1010.0	+2	66	-2	W	3	*	bc	*	-	*	61
Nicolaiev ...	1011.1	68	WNW	4	r	1011.1	*	64	-6	NW	2	*	o	*	2	*	64
Odessa ...	1009.0	68	S	2	r	1008.0	0	66	-9	N	2	*	o	*	6	*	64
Tarkhankout ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Soukhom ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 12 <sup>h</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for 12 <sup>h</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.			
Scotland.	6.6	-	-	60	47	b. bc	c	10.7	England, E.	3.7	1	-	62	56	or. o	o. c. bc. c	4.5
Oban ...	10.2	2	2	59	51	or	or	0.0	Felixstowe ...	3.9	0.2	-	64	57	om	ov	0.1
Banff ...	4.0	*	*	60	53	f. c	r. bc	1.2	Walton-on-Naze ...	3.1	0.3	Trace	63	57	o. c	o. c	0.0
Carnoustie ...	2.0	-	1	64	45	cp	cp	2.5	Southend-on-Sea ...	3.0	-	2	64	57	o	or	0.1
St. Andrews ...																	
Eng. N.E.	0.0	8	2	66	50	c. bc	b. bc. b	6.8	Margate ...	3.7	-	4	65	57	o	r	0.4
Harrogate ...	0.4	2	-	60	54	po. bc	bc	5.2	Ramsgate ...	2.7	-	2	64	57	o	or	0.1
Skegness ...									Hastings ...	3.6	*	*	63	57	or. o	o. bc	0.1
									Eastbourne ...	4.4	2	0.2	62	57	or. bc	o. bc	5.8
Eng. N.W.	0.0	2	-	65	55	-	-	9.5	Seaford ...	3.9	*	*	62	57	o	o	0.5
Morecambe ...	0.0	0.3	-	62	55	o. c	c. bc. b	8.0	Brighton ...	0.4	1	-	63	57	c. o	o	0.2
Blackpool ...									Worthing ...	3.1	1	-	63	57	c	c	0.3
Southport ...	0.5								Littlehampton ...	3.8	1	-	64	56	o. bc	o	0.8
									Bognor ...	*	*	*	64	57	bc. o	o. bc	0.8
Midlands.									Bournemouth ...	2.2	-	-	65	56	o	o	1.2
Buxton ...	1.1	0.4	4	66	57	od	op. c. b	0.5									
Leamington Spa ...	0.0	-	-	67	56	c	c. bc	1.5	England, S.E.								
Malvern ...	0.2	0.1	-	67	56	c. o. bc	bc	0.5	Weymouth ...	3.8	*	*	66	56	z. o. c	cz	1.2
Ross-on-Wye ...									Torquay ...	-	0.2	-	66	56	c. o	c. o	3.2
									Paignton ...	*	-	-	67	54	c	c	3.4
Wales.									Penzance ...	0.4	1	0.2	61	55	or. m. c	c. om	0.1
Rhyl ...	1.2	4	-	60	54	p. o	c. bc	2.8	Newquay ...	1.3	-	0.2	60	56	bc. d. bc	o	0.1
Colwyn Bay ...	3.0	*	*	61	53	c. bc	bc	2.5	Bude ...	0.4	2	-	63	56	-	-	4.5
Llandudno ...	2.0	*	*	60	54	m	b	3.3	Ilfracombe ...	0.8	*	*	61	53	o. c	c. bc	2.2
Aberystwyth ...	0.0	*	*	60	53	r. o. c	c. bc	1.7	Weston-s-Mare ...	0.6	1	-	65	56	o. c. bc	b. bc. c	2.5
Tenby ...	0.3	-	-	64	56	o	bc	1.2									

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.			
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.			653	Joules.	11.2	Milliwatts.	47	Milliwatts.
				Max.	Min.													
				24 HOURS ENDED 9 h. TO-DAY														
%	%	Hr.	F.	° F.	° F.	mm. §												
Greenwich (Royal Obsy.) ...	89	86	0.0	64	52	49	5	0.0r	0.0	0.0 c. 0								
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*								
Westminster (St. James's Pk.)	89	82	0.0	64	52	51	7	0.0r	r	od. 0								
Camden Sq. (Brit. Rainfall)	94	75	0.0	64	51	49	6	0.0r	0.0	*								
Hampstead (Reservoir) ...	*	87	0.0	62	48	26	6	0.0r	0	0								
S. Kensington (Museum Grounds)	*	87	0.0	64	57	55	5	0.0r	0.0	od. 0								
Richmond Park ...	*	*	0.0	*	*	*	*	*	*	*								
Kew. (See front page.)	*	*	0.0	*	*	*	*	*	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																		
Hours of Observation G.M.T.																		
	Morning.		Evening.				Morning.		Evening.									
	h.		h.				h.		h.		h.							
British Isles ...	7		18		Corunna ...	...	7		16									
France ...	7		18		Madrid ...	...	8		16									
Norway ...	7		18		Lisbon ...	...	7		21									
Denmark ...	6		17		Azores ...	...	8		17									
Holland ...	6		17		Madeira ...	...	7		21									
Italy ...	7		20		Malta ...	...	8		—									
Egypt ...	6		18		Limassol ...	...	6		—									

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

14 <sup>th</sup> - 15 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	2.47	11.59	8.10
Greenwich ...	4.0	12.6	8.10
Wick ...	3.30	12.18	9.4
Valencia ...	4.38	12.47	9.55
	4.29	12.45	9.54

## NOTES ON YESTERDAY'S WEATHER.

Temperature again failed to reach 60° at a number of stations. Showers fell in several districts, and thunder and lightning occurred in eastern England. Most of the sunshine records were very small, but Glasgow had 8.8 hours.

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

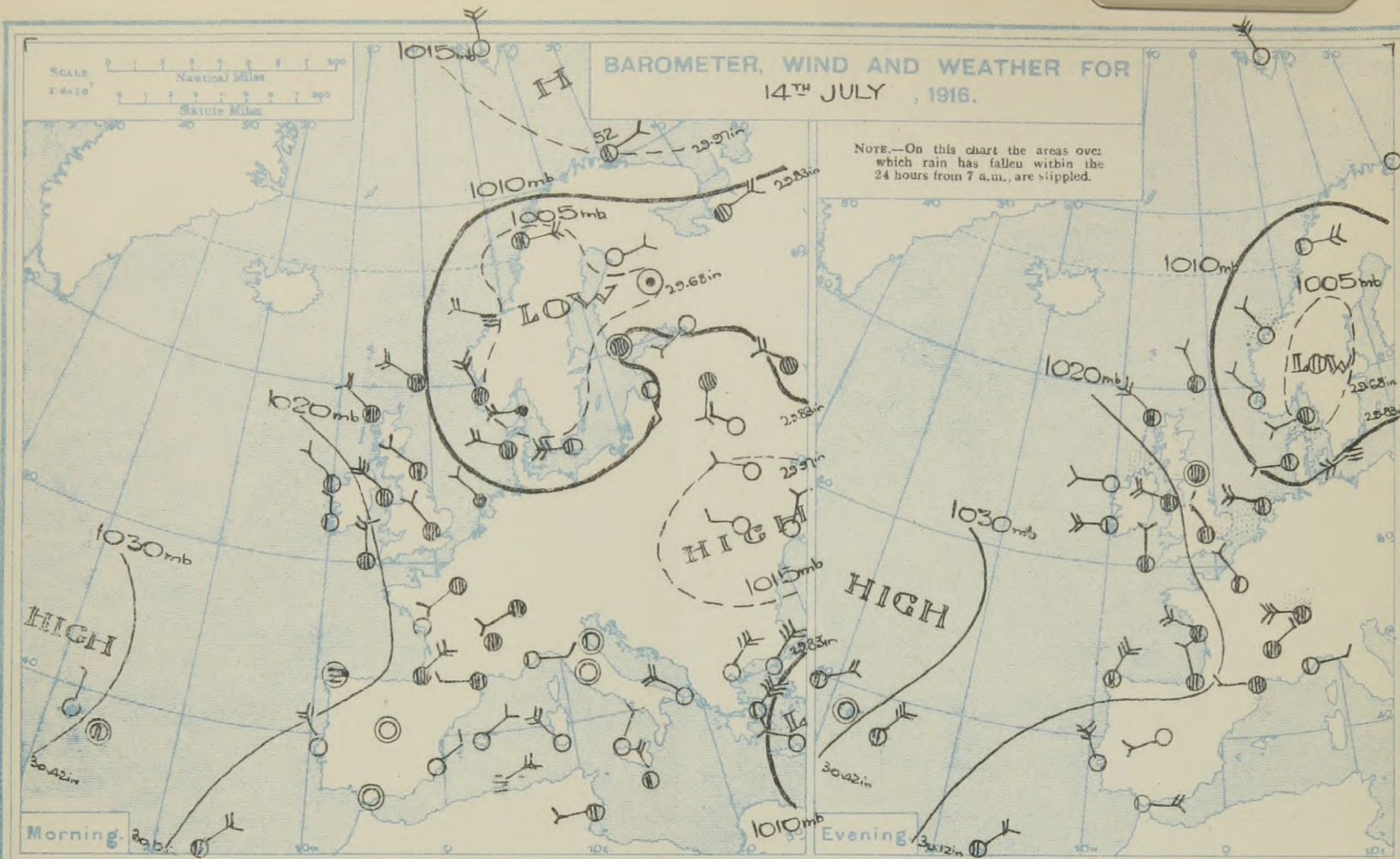
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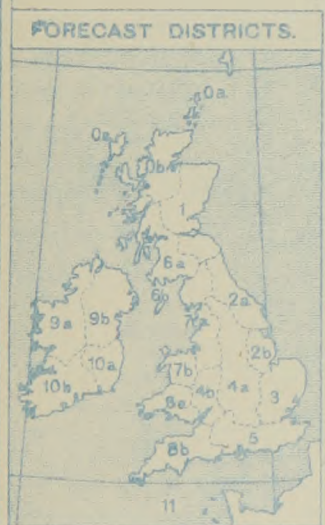
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 197. { 15<sup>th</sup> July. Saturday.

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. °F.	°F.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1012.9	55	NNW	2	c	1015.0	0	49	-1	NW	4	-	om	3	-	55	47	om	o.c	om	*
	Deerness (Orkney) ...	1014.5	51	WNW	4	om	1016.2	*	53	+3	WNW	3	NW	c	2	-	53	48	opd	opdm	om.c	0.0
	Stornoway ...	1018.4	57	NW	4	c	1017.4	-1	54	+3	SW	1	-	oz	1	-	58	49	o	c	c.oz	3.0
	Castlebay (Barra Isd.) ...	1020.3	55	WNW	2	o	1019.0	0	54	+1	SW	3	-	o	3	Trace	58	52	o.c	c.bc.o	op.o	2.8
	Glasgow ...	1017.2	58	W	3	c	1019.2	+1	53	0	W	3	NW	cZ	*	-	61	46	bc.c.o	o.c	bc.bbc	4.4
	Eskdalemuir ...	1017.2	56	WNW	4	ct	1019.2	+1	54	+3	NW	4	NW	bc	*	-	63	40	c.bc.c.o	cZ.o.c	bc.bbc	3.6
	Malin Head ...	1020.4	54	NNW	2	cm	1019.7	0	53	-1	NNW	3	-	om	2	0.2	55	52	om	cm	om.d	1.2
	Blackod Point ...	1022.1	56	W	2	cZ	1020.1	-1	55	+1	S	W	SW	cgm	3	-	59	53	CZ	CZ	cm	*
	Valencia ...	1023.2	60	W	3	b	1023.1	0	57	+1	S	3	SW	o	3	-	63	53	b.bc.c	bc.b	bz.bcc	11.4
	Roche's Point ...	1022.5	62	SSW	2	c	1024.5	*	53	0	NNE	1	NE	c	1	0.3	66	48	b.bc.o	o.c	bc.bw.c	*
	Birr Castle ...	1020.7	63	NW	2	c	1022.7	*	55	+2	W	1	-	c	*	-	64	51	c	c	c	7.4
	Donaghadee ...	1020.1	53	N	4	cm	1020.9	0	55	+2	W	2	-	ogm	1	-	57	52	cm	cm	cm.ogm	*
	Liverpool (Bidston) ...	1019.3	57	W	3	b	1021.6	+1	55	0	W	2	W	o	2	-	59	53	bc	b	o	7.9
	Holyhead ...	1020.6	55	NW	4	og	1022.5	+1	55	+1	NW	4	W	og	3	-	60	53	c.bc.c	c.o	o.c.o	2.8
	Pembroke (St. Ann's) ...	1022.6	56	NNW	2	bc	1023.9	+1	53	+1	-	0	-	bc	2	-	62	52	bc	bc	b.bc	0.3
	Scilly (St. Mary's) ...	1022.8	59	N	2	c	1025.1	+1	56	-2	NW	1	-	b	2	-	64	52	c.bc	bc.c	c.bc.b	9.0
	Falmouth ...	1022.0	61	NNW	4	bZ	1023.4	+2	60	+1	WNW	3	-	b	*	-	63	50	o	c.bcq	bw	7.4
	Jersey (St. Aubin) ...	1020.0	62	NW	3	b	1023.1	*	58	-1	NW	3	-	b	2	-	65	52	og.c	c.b	bw.b	12.8
	Portland Bill ...	1018.4	60	W	4	bc	1023.6	+2	57	0	-	0	W	c	3	-	64	53	bc.c	c.bc	bc.c	*
	Dungeness ...	1017.4	56	NE	2	op	1020.9	+3	53	-2	NNW	2	NW	c	2	-	63	52	bc	bc.o	bc	*
	Dover ...	*	*	*	*	*	1020.9	+3	55	+1	NW	4	-	bZ	2	0.2	65	48	*	*	c.bc.b	3.3
	Wick ...	1015.5	51	NW	5	o	1017.2	+2	54	+3	NW	3	-	bc	2	-	55	48	omgpd	om	om.bcZ	*
	Nairn ...	1016.7	57	NW	2	cg	1018.0	*	54	+3	W	1	-	og	1	0.3	62	44	pd.bc	bc.cg	cgw	2.0
	Aberdeen ...	1015.2	59	NW	4	c	1017.5	+1	55	+4	NW	4	N	b	2	-	61	48	opd.c	c	c.bc.b	3.3
Leith ...	1015.9	65	W	1	b	1018.5	+1	55	+1	W	1	N	b	1	-	70	48	c.o.c.bc	b	b	*	
Tynemouth ...	1016.4	57	-	0	om	1018.9	+2	54	0	NW	3	-	bm	3	-	58	49	cm	om	cm	*	
Spurn Head ...	1016.9	57	NNE	5	bc	1019.3	+1	54	0	NW	5	-	bc	4	-	59	52	o.cq	bc	bc	2.3	
Yarmouth ...	1017.3	58	N	4	bc	1018.9	+1	54	-2	N	3	-	bc	2	-	63	49	bc	bc	bc	6.6	
Clacton-on-Sea ...	1017.1	56	WNW	1	o	1020.7	+3	52	-2	WNW	3	NW	bc	2	0.3	65	49	og.c.og	ogpd	og.c.bc	2.4	
Nottingham ...	1017.2	58	WNW	2	o	1020.7	*	55	+3	WNW	2	W	bmw	*	0.2	60	45	opm	ogp	o	0.0	
Benson (Oxon.) ...	1017.6	59	N	2	o	1021.3	+3	50	-3	W	1	-	o	*	-	62	41	o	o	o.b.o	*	
Sth Farnborough ...	1017.4	61	NW	2	o	1022.2	+3	51	-3	WNW	1	-	o	*	-	65	43	o.c.oz	oz	o.b.o	1.5	
London (Kew Obsy.) ...	1017.9	60	NNW	1	o	1022.5	+2	52	-3	W	1	-	om	*	Trace	63	48	om.o	o	om.bc.om	1.3	
NORTHERN EUROPE.	Spitsbergen ...	1015.9	43	NNW	6	b	1015.8	6	41	0	N	4	*	b	*	*	43	37	UPPER AIR. South Farnborough. Pilot Balloon Ascent at ... Ch. 15m			
	Vardö ...	1007.4	64	E	4	b	1008.0	+2	64	0	E	2	-	b	2	-	64	59	WIND AT 1200m. NW 10 mps			
	Bodö ...	1007.4	64	E	4	b	1008.0	+2	64	0	E	2	-	b	2	-	64	59	900 NW 8			
	Christiansund ...	1005.9	59	NW	3	c	1005.6	0	55	0	WNW	2	-	c	3	2	59	52	600 NW by N 9			
	Skudesnaes ...	1005.3	57	NNW	4	o	1007.8	+3	54	-1	NNW	6	-	m	2	-	59	54	300 NW by N 8			
	Færder (Xania Fjord) ...	1004.6	59	WSW	3	c	1005.9	0	57	0	SSW	3	-	r	3	2	63	59	Surface WNW 2			
	The Scaw (Skagen) ...	1009.1	59	W	2	bc	1008.2	0	55	0	W	3	-	r	4	2	61	54				
	Blaavands Huk ...	1006.7	61	WSW	3	o	1009.9	0	57	0	WSW	3	-	bc	*	-	62	54				
Copenhagen ...	1010.1	57	WSW	3	m	1011.3	0	55	0	SW	2	SW	m	1	Trace	61	52					
Bornholm ...	1010.1	57	WSW	3	m	1011.3	0	55	0	SW	2	SW	m	1	Trace	61	52					
FRANCE, &c.	The Helder ...	1013.6	57	WNW	4	bc	1016.2	+1	55	+1	W	5	-	o	3	1	59	54				
	C. Gris Nez ...	1017.5	58	NE	2	o	1020.8	+2	57	0	W	3	*	m	2	-	64	55				
	La Hève ...	1017.5	63	NW	3	bc	1023.1	*	61	+4	-	0	*	bc	1	-	66	55				
	Brest (St. Mathieu) ...	1022.3	59	N	3	b	1025.9	+2	57	-1	N	2	*	b	0	-	64	52				
	Rochefort (Ile d'Alx) ...	1020.7	63	WNW	4	c	1023.4	+2	61	-	NNE	3	*	bc	*	-	70	57				
	Biarritz ...	1020.6	70	N	2	c	1024.0	+2	62	+1	E	3	*	c	1	-	73	59				
	Paris ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	GALES. Duration and Extreme Force in British Islands.			
	Belfort ...	1016.2	63	W	5	c	1020.8	*	54	0	W	2	*	m	*	4	66	52				
Lyons ...	1018.7	61	NE	1	o	1021.9	*	60	-3	NW	1	*	c	*	3	68	54					
Nice ...	1011.5	70	E	1	b	1012.4	+3	70	+2	-	0	*	bc	0	-	77	61					
Perpignan ...	1017.5	66	W	1	o	1020.4	+3	68	-2	-	0	NW	b	*	8	79	59					
Sanguinaire ...	*	77	W	1	bc	*	*	72	-	E	3	*	b	3	-	84	64					
SOUTHERN STATIONS.	Corunna ...	1021.5	66	NNE	5	bc	1022.9	+2	64	+3	NE	4	-	b	3	-	68	61				
	Madrid ...	1010.4	86	WSW	2	b	1016.0	+2	70	-2	-	0	-	b	*	-	90	63				
	Lisbon ...	1015.8	73	NNW	5	b	1016.3	0	66	+2	NNW	1	-	b	5	-	77	61				
	Azores ...	1030.6	*	-	0	?	1029.2	0	66	+2	-	0	*	bc	0	-	81	64				
	Madeira ...	1018.3	72	NE	3	bc	1018.9	+1	68	+2	NE	3	-	o	3	-	72	66				
	Gibraltar ...	1014.9	71	E	3	b	1016.6	*	70	+1	E	4	*	c	1	-	79	67				
	Malta ...	*	*	*	*	*	1015.9	+2	81	+4	-	0	-	b	0	-	84	75				
	Limassol ...	*	*	*	*	*	1004.3	+3	84	-4	SSE	2	-	b	2	-	102	84				
	Alexandria ...	1006.3	81	WNW	3	b	1008.0	+3	81	-1	WNW	4	NW	c	3	-	91	77				
Cairo (Helwan) ...	1005.3	97	N	2	b	1008.0	+2	79	-3	NW	1	-	b	*	-	104	75					
YESTERDAY'S REPORTS																						
13 <sup>th</sup> July, 20 h. G.M.T.																						
MEDITERRANEAN.	Venice ...	1015.6	72	NW	2	b	1014.0	*	75	+2	-	0	-	b	1	-	81	63				
	Pesaro ...	1016.4	73	SW	1	b	1016.2	*	72	0	-	0	-	b	*	-	84	66				
	Rome ...	1015.0	79	NW	2	b	1014.6	*	79	0	NW	2	-	b	3	-	86	70				
	Viesti ...	1013.9	77	NW	5	b	1013.9	*	77	0	NW	4	-	b	4	4	81	75				
	Brindisi ...	1015.6	84	NW	5	b	1016.1	*	77	+2	NW	5	-	b	4	-	87	57				
	Cagliari ...	1017.5	77	-	0	b	1016.3	*	73	-4	NNE	1	-	b	0	-	84	69				
	Palermo ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Tripoli ...	1016.8	72	NE	4	bc	1014.4	+1	72	0	ENE	4	-	f	5	?	77	68				
Algiers ...	1016. .																					





### FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.



**STORM WARNINGS.**

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

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

No Warnings Issued.

- 0 <sup>a</sup> } Wind becoming Southerly and freshening somewhat;  
     <sup>b</sup> } cloudy to dull, some rain and mist; cool.
- 1
- 2 <sup>a</sup> } North-Westerly to Westerly breeze, light or  
     <sup>b</sup> } moderate, tending to back South-Westerly later; generally  
     3 fair to fine, doubtful later, probably less fair, with  
     4 showery tendency; cool.
- 5
- 6 <sup>a</sup> } Same as No. 0.
- 7 <sup>a</sup> } Same as Nos. 1 to 5.
- 8 <sup>a</sup> }
- 9 <sup>a</sup> }
- 10 <sup>a</sup> } Same as No. 0.
- 11 <sup>a</sup> } Variable Northerly breeze, light or moderate;  
     <sup>b</sup> } sea moderate; fine generally, local mist or fog; cool.

### FURTHER OUTLOOK.

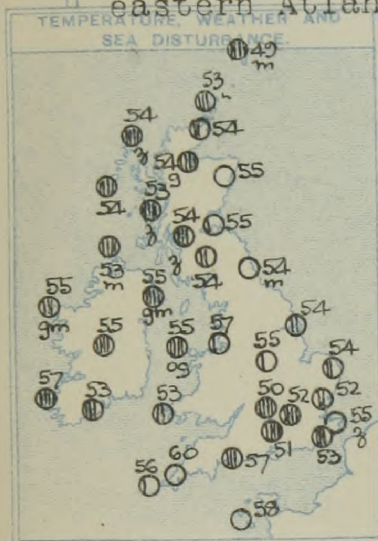




# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 14<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The conditions over the British Isles are rendered doubtful by the appearance of a new depression over the north-eastern Atlantic.



## EXPLANATION.

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

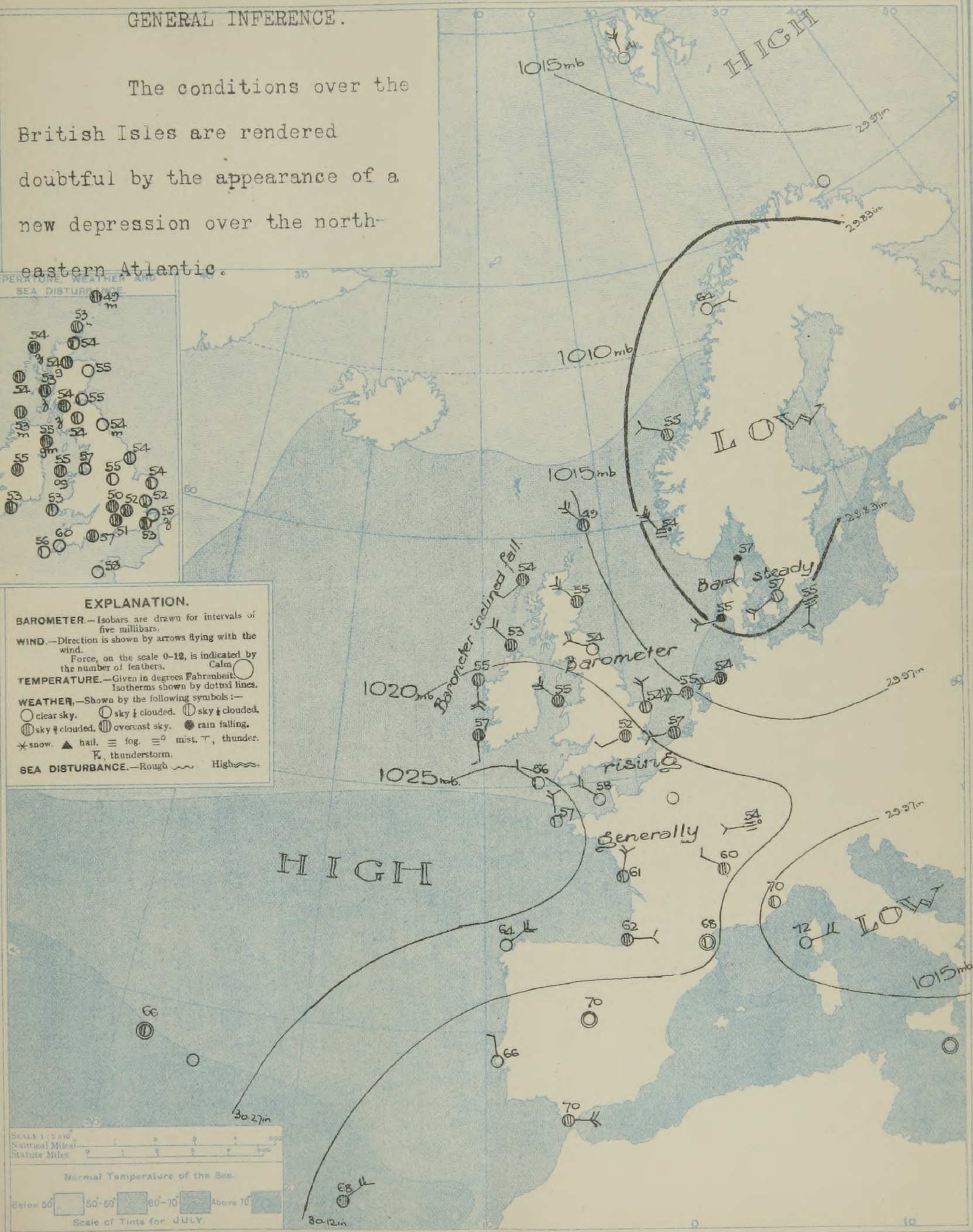
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

**WEATHER.**—Shown by the following symbols:—

- clear sky.
- sky 1/2 clouded.
- sky 3/4 clouded.
- overcast sky.
- rain falling.
- \* snow.
- ▲ hail.
- ≡ fog.
- mist.
- T, thunder.
- K, thunderstorm.

**SEA DISTURBANCE.**—Rough High





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	13h. AT 9 P.M. LOCAL TIME					14h. AT 7 A.M. LOCAL TIME															
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather	BAROMETER.		TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.					
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Dir.	Force 0-12.					Max.	Min				
Archangel ...	1006.6	66	ESE	2	c	1006.7	+1	64	+1	E	3	*	c	*	-	*	59				
Gorki ...	1010.3	61	NW	1	bc	1012.8	+4	57	.	NW	1	*	b	*	-	*	54				
Veliki Luki ...	.	.	.	.	.	1013.2	*	59	+2	SSW	2	*	o	*	-	*	54				
Hangö ...	1006.4	55	WSW	3	c	21010.0	0	65	-2	-	0	*	o	*	-	*	54				
Riga ...	1010.9	68	WSW	1	o	1009.5	0	63	+4	S	1	*	b	*	2	*	57				
Petrograd ...	1007.1	63	WSW	3	c	1009.7	+1	61	+4	WSW	2	W	b	*	4	66	58				
Moscow ...	1006.9	63	NNW	2	c	1009.1	0	59	-2	NNW	3	*	o	*	-	*	57				
Kiev ...	1014.3	63	NW	2	bc	1016.4	+1	61	-2	NW	2	*	b	*	-	*	54				
Kharkov ...	1010.9	61	SW	2	b	1014.7	+3	59	-7	NW	2	*	b	*	2	*	50				
Kishinev ...	1016.2	64	NW	2	b	1018.3	+1	61	-2	NW	1	*	b	*	-	*	59				
Elisabetgrad ...	1014.3	64	-	0	b	1017.2	+1	61	-5	-	0	*	b	*	-	*	50				
Nicolaiev ...	1013.1	72	N	3	b	1016.4	*	61	-3	NE	2	*	b	*	-	*	57				
Odessa ...	1014.4	72	NNE	3	b	1017.1	+2	68	+2	NE	2	*	b	*	-	*	61				
Tarkhankout ...	1011.9	79	NW	4	bc	1015.3	*	72	.	NE	4	*	b	*	5	*	64				
Souk'oum ...	1011.0	79	-	0	b	1011.0	*	75	.	-	0	*	b	*	-	*	*				

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 13h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for 13h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.			
Scotland.									England, E.								
{ Oban ...	10.7	-	-	55	51	o	bc.	1.6	{ Lowestoft ...	14.5	-	-	61	53	c	c	4.9
{ Banff ...	0.0	1	-	57	51	b bc.	bc c.	1.2	{ Felixstowe ...	0.1	6	1	63	52	c bc.	op	2.4
{ Carnoustie ...		-	-	61	55	fc	c.	3.5	{ Walton-on-Naze ...				64	52	c o.	op	2.3
{ St. Andrews ...	2.5	-	-	66	52	bc	c	3.6	{ Southend-on-Sea ...	0.1	4	-	64	52	c o.	op	2.3
Eng. N.E.									England, S.E.								
{ Harrogate ...	6.9	3	-	61	46	o c.	bc c.	1.7	{ Margate ...	8.4	7	-	62	54	c bc b.	c	1.6
{ Skegness ...	5.2	-	-	59	49	c bc.	p bc.	1.8	{ Ramsgate ...	0.1	19	1	60	53	o bc.	bc or	2.5
									{ Hastings ...	*	*	*	65	54	op c.	bc c.	1.6
									{ Eastbourne ...	5.9	-	-	66	54	c bc.	bc o.	3.4
Eng. N.W.									{ Seaford ...	0.7	*	*	67	54	bc	bc o.	4.8
{ Morecambe ...	10.8	-	-	64	52			1.8	{ Brighton ...	0.2	-	-	66	54	c b.	b o c.	0.7
{ Blackpool ...		-	-						{ Worthing ...	0.3	-	-	66	54	bc	bc.	5.4
{ Southport ...	9.3	7	-	60	53	c o c bc.	bc b.	5.8	{ Littlehampton ...	1.1	-	-	68	54	b	bc.	8.5
									{ Bognor ...								
									{ Bournemouth ...	*	-	-	67	51	bc	bc	9.5
Midlands.									England, S.W.								
{ Buxton ...		-	-	60	52	bc c.	c o.	3.5	{ Weymouth ...	*	*	*	68	52	c bc b.	bc.	8.0
{ Leamington Spa ...	1.2	-	-	62	50	bc	bc	5.0	{ Torquay ...	3.4	-	-	64	50	b bc c.	c.	5.5
{ Malvern ...	1.5	-	-						{ Paignton ...								
{ Ross-on-Wye ...	1.2	-	-	67	46	b	b	10.0	{ Penzance ...	0.1	-	-	62	56	c	o c.	2.3
									{ Newquay ...	0.1	-	-	60	56	bc	b.	5.6
Wales.									{ Bude ...	6.2	-	-	63	56	bc	bc.	5.6
{ Rhyl ...	4.6	-	-	59	53	o c bc.	bc c bc.	5.9	{ Ilfracombe ...	*	-	-	61	51	bc	bc.	4.2
{ Colwyn Bay ...	*	-	-	59	51	bc	bc	3.0	{ Weston-s-Mare ...	4.0	-	-	65	53	b bc.	bc.	6.5
{ Llandudno ...	*	-	-	57	52	c	c.	1.9									
{ Aberystwyth ...	*	-	-	58	53	r o c.	bc o.	2.7									
{ Tenby ...	1.6	-	-	64	58	bc c.	bc.	5.0									

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 80.4 Joules.	Average Rate. 13.8 Milliwatts.	Max. Rate. 75 Milliwatts	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.						
				Max.	Min.											
				24 HOURS ENDED 9 h. To-Day												
%	%	Hr.	F.	° F.	° F.	mm. §										
Greenwich (Royal Obs.) ...	79	69	1.9	66	47	39	—	c. 0	o	op. o. bc.						
City (Bunhill Row) ...	*	*		*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	71	73	1.7	65	48	43	—	od.	o	o. bc. o	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	63	62	2.2	68	47	46	—	c. 0	od. o	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	70	2.2	62	46	32	—	bc. o	bc.	c.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	67	1.7	64	49	48	Trace	o c. op	c. o	op. p. o.	Denmark ...	6	17	Azores ...	8	17
Richmond Park	*	*		*	*	*		*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	1.3	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
											Egypt ...	6	18	Limassol...	6	—

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

	15th & 16th July, 1916.		
	Sunrise.	Noon.	Sunset.
Yarmouth ...	3.48 2.49	11.54 11.54	8.9 8.9
Greenwich ...	4.2 4.3	12.6 12.6	8.10 8.9
Wick ...	3.31 3.33	12.18 12.18	9.4 9.2
Valencia ...	4.39 4.40	12.47 12.47	8.34 8.53

## NOTES ON YESTERDAY'S WEATHER.

Temperature again remained below 60° in many localities, but touched 70° at Leith. Jersey had 12.8 hours of sunshine, and Valencia 11½ hours, but generally the records were very small.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. 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.



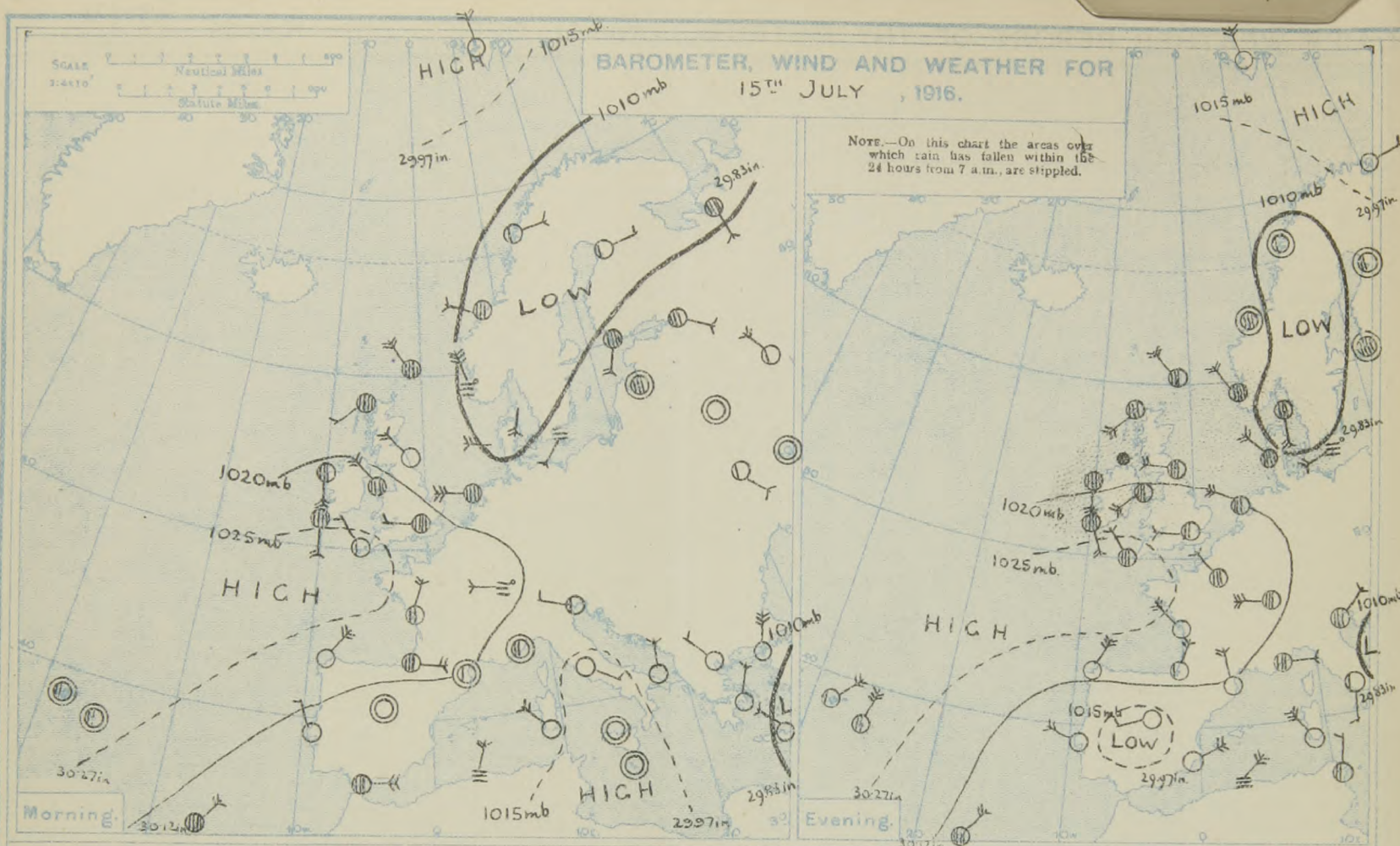
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																					
Lerwick	1015.1	55	NW	4	c	1015.4	0	50	+1	-	0	-	o	0	-	55	48	om	o.c	o	*
Deerness (Orkney)	1015.9	57	W	4	o	1014.5	*	53	0	S	1	-	f	0	3	58	51	c	c.o	or fe	1.5
Stornoway	1015.6	56	SW	4	oz	1014.2	+1	56	+2	SW	4	-	fz	4	1	58	54	op	oz	oz	0.2
Castellbay (Barra Isd.)	1016.9	56	SW	4	om	1015.6	0	55	+1	NW	3	-	odm	3	4	57	53	od	dom	mfe. dm	0.0
Glasgow	1019.5	55	WSW	2	omd	1015.8	-1	56	+3	W	1	-	me	*	4	61	53	c oz	o.c omp	omp	2.3
Eskdalemuir	1019.7	57	WSW	2	o	1016.8	-1	55	+1	SSE	2	-	ome	*	0.3	62	53	bc.c.o	o.c. bc.o	o.omp	4.1
Malin Head	1018.5	60	SW	3	cmd	1016.5	-1	56	+3	W	3	-	fe	3	2	65	53	cm	cm	fe	0.1
Blacksod Point	1019.2	56	S	4	ome	1018.9	+1	55	0	WSW	3	-	of	3	1	59	54	om.b	afe	ofe. od	*
Valencia	1022.6	58	SSE	3	o	1021.5	+2	57	0	SW	3	-	o	3	1	63	56	o.c	o	od o	0.6
Roche's Point	1024.5	59	SW	3	o	1021.7	*	59	+6	WSW	3	-	o	3	0.3	61	53	o	o	om	*
Birr Castle	1020.6	66	W	1	m	1019.6	*	60	+5	W	2	-	m	*	0.3	66	54	c	oz	m	2.8
Donaghadee	1020.0	63	SW	3	cz	1016.5	+1	60	+5	WSW	3	-	ogm	2	Trace	65	55	cz	cz	ogm	*
Liverpool (Bidston)	1021.9	60	W	3	b	1018.5	-1	60	+5	SW	2	-	o	2	1	61	54	o	bc	op	2.9
Holyhead	1022.2	56	SW	4	c	1018.5	0	56	+1	SW	5	-	fd	4	1	64	55	o	o.c	opd. of	3.3
Pembroke (St. Ann's)	1024.3	56	SW	2	c	1022.6	-1	57	+4	WSW	3	-	o	3	-	61	55	bc	bc.c	o	6.4
Scilly (St. Mary's)	1026.5	59	NW	2	c	1024.6	0	58	+2	W	3	-	o	4	-	66	55	bc	bc.c	c.o	10.8
Falmouth	1026.0	61	NNW	2	b	1024.0	-1	58	-2	WSW	2	-	o	*	-	67	55	b	b	o	12.5
Jersey (St. Aubin)	1025.2	62	W	3	bc	1024.4	*	58	0	W	3	-	o	2	-	68	54	b	b.bc	bc.o	12.3
Portland Bill	1024.0	60	W	3	bc	1022.7	-1	57	0	W	4	-	c	3	-	61	54	bc	bc	bc.c	*
Dungeness	1022.6	61	W	3	o	1020.7	0	56	+2	W	3	-	o	3	-	65	52	bc.c.o	o.c.o	abc.c.o	*
Dover	*	*	*	*	*	1020.2	-1	60	+5	WNW	3	-	c	2	-	64	53	*	*	b.b.c.c	5.5
Wick	1016.3	55	-	0	r	1014.1	0	54	0	-	0	-	fe	2	4	59	50	bc.od	op	pd.fe	*
Nairn	1016.9	59	-	0	o	1014.1	*	60	+6	-	0	-	cg	1	0.3	62	53	cg	cg.o	bop	0.4
Aberdeen	1017.1	59	S	1	o	1014.8	0	58	+3	-	0	-	o	2	1	61	54	b.b.c.o	c.o	c.or	4.8
Leith	1018.7	62	W	2	o	1015.3	-1	60	+5	W	1	-	o	2	1	63	55	b	bc.c.o	o.or.o	*
Tynemouth	1019.0	60	W	3	cm	1016.0	-3	60	+6	WNW	1	-	om	2	1	64	54	bc	bcm	omp	*
Spurn Head	1020.4	61	WNW	4	c	1017.9	-1	57	+3	WNW	4	-	om	4	-	63	54	bc	bc	c.om	7.5
Yarmouth	1021.1	59	S	2	b	1018.8	-2	56	+2	WNW	2	-	c	2	-	65	54	bc	b	om.c	7.0
Clacton-on-Sea	1021.8	62	WNW	2	c	1019.7	0	57	+5	WNW	3	-	o	2	-	66	52	bc	bc.c.g	abc.c	8.7
Nottingham	1021.5	62	WNW	2	c	1018.9	*	56	+1	WSW	1	-	om	*	4	64	52	bc.c.o	o.c	c	3.7
Benson (Oxon.)	1020.9	66	WNW	2	c	1021.2	0	55	+5	W	1	-	o	*	0.4	67	49	o	o	bc.bop	*
Sth Farnborough	1022.0	66	WSW	1	bc	1020.9	-1	57	+6	W	3	-	o	*	-	68	51	o	o.bc	bc.o	2.0
London (Kew Obsy.)	1022.6	65	W	2	bc	1020.9	0	57	+5	WSW	3	-	o	*	-	66	52	om.o	o.c. bc	bc.o	1.8
NORTHERN EUROPE.																					
Spitsbergen	1016.3	45	NW	2	b	1015.0	0	48	+7	N	1	-	b	*	*	48	41	*	*	*	*
Vardö	1017.5	48	E	1	b	1017.1	+1	54	*	SE	1	-	b	2	*	54	43	*	*	*	*
Bodö	1009.1	68	-	0	b	1013.2	+1	68	+4	E	2	-	b	2	-	68	59	*	*	*	*
Christiansund	1011.5	59	-	0	c	1012.0	0	57	+2	-	0	-	o	1	-	59	54	*	*	*	*
Skudesnaes	1010.3	54	NW	4	o	1009.6	0	57	+3	N	6	-	c	2	1	57	50	*	*	*	*
Færder (X'ania Fjord)	1005.1	61	S	3	c	1005.2	0	57	0	ENE	1	-	r	2	-	63	52	*	*	*	*
The Scaw (Skagen)	1012.0	57	NW	4	o	1011.5	0	54	-1	WNW	5	-	o	4	Trace	61	52	*	*	*	*
Blaavands Huk	1009.3	61	WSW	4	c	1008.7	+1	55	-2	WNW	3	-	o	*	9	63	55	*	*	*	*
Bornholm	1011.4	59	WSW	3	m	1008.7	-2	55	0	WNW	4	-	m	1	1	63	52	*	*	*	*
FRANCE, &c.																					
The Helder	1020.0	57	WNW	4	c	1016.8	-1	57	+2	W	5	-	o	3	-	57	55	*	*	*	*
C. Gris Nez	1022.1	58	WSW	4	o	1020.6	0	60	+3	W	5	-	bc	4	-	63	55	*	*	*	*
La Hève	1023.1	61	NW	2	b	1022.9	*	58	-3	WNW	3	-	o	3	-	66	54	*	*	*	*
Brest (St. Mathieu)	1027.1	61	NW	5	b	?	-1	60	+3	WNW	1	-	c	1	-	63	54	*	*	*	*
Rochefort (Ile d'Alx)	1024.3	64	NW	4	b	1024.3	0	59	-2	WNW	3	-	c	*	-	72	55	*	*	*	*
Biarritz	1023.1	69	NNE	3	b	1024.0	0	64	+2	ENE	1	-	c	2	-	72	57	*	*	*	*
Paris	1023.3	66	NNW	2	bc	1023.5	0	55	-	0	-	0	*	-	-	72	46	*	*	*	*
Belfort	1023.9	59	W	5	c	1024.2	*	50	-4	WSW	2	-	m	*	-	64	46	*	*	*	*
Lyons	1013.0	74	E	2	c	1016.3	+2	67	-3	S	1	-	b	0	-	82	63	*	*	*	*
Nice	1020.0	75	NNW	3	b	1020.7	0	68	0	SW	1	-	b	*	-	81	57	*	*	*	*
Perpignan	1020.0	75	NNW	3	b	1020.7	0	68	0	SW	1	-	b	*	-	81	57	*	*	*	*
Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SOUTHERN STATIONS.																					
Corunna	1021.6	68	NNE	5	b	1022.4	+2	66	+2	NNE	2	-	b	1	-	70	55	*	*	*	*
Madrid	1013.6	86	WSW	1	b	1019.0	+1	70	0	-	0	-	bc	*	-	90	63	*	*	*	*
Lisbon	1016.6	75	WNW	3	b	1018.4	+2	68	+2	-	0	-	b	2	-	79	63	*	*	*	*
Azores	1028.6	*	NE	4	b	1029.2	0	69	+3	NNE	2	-	c	1	-	79	66	*	*	*	*
Madeira	1019.1	70	NE	3	o	1020.7	0	66	-2	N	3	-	b	3	-	72	66	*	*	*	*
Gibraltar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malta	*	*	*	*	*	1013.7	+3	79	-2	NW	3	-	b	2	-	91	75	*	*	*	*
Limassol	*	*	*	*	*	1003.4	+1	88	+4	SW	2	-	b	2	-	99	70	*	*	*	*
Alexandria	1007.8	79	NNW	4	b	1008.3	0	81	0	W	3	-	b	2	-	88	77	*	*	*	*
Cairo (Helwan)	1006.9	88	NW	2	b	1008.4	+1	79	0	NNW	1	-	b	*	-	101	73	*	*	*	*
YESTERDAY'S REPORTS.																					
14 °F., 20 b. G.M.T.																					
Venice	1010.6	68	NNE	1	r	1010.7	*	70	-	0	W	3	b	3	B	81	66	*	*	*	*
Pesaro	1012.2	79	-	0	b	1012.6	*	75	0	W	1	-	b	1	-	88	70	*	*	*	*
Rome	1016.1	72	S	1	b	1015.7	*	75	+3	-	0	-	b	*	-	82	64	*	*	*	*
Viesti	1014.0	77	SSE	1	b	1012.2	*	79	0	-	0	-	b	1	-	88	70	*	*	*	*
Brindisi	1014.6	75	N	1	b	1014.6	*	77	0	N	2	-	b	2	-	77	68	*	*	*	*
Cagliari	1014.7	82	SE	3	b	1012.6	*	77	0	NW	3	-	b	5	-	84	59	*	*	*	*
Palermo																					

## RAINFALL.

Equivalents of Millimetres  
in Inches.

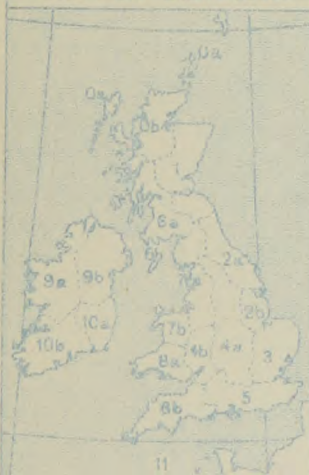
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.7





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay 11

Variable breezes between North-West and South-West, light to moderate; dull to fair, local showers and mist; cool.

Light variable breezes; sea moderate; cloudy to fair, local mist or fog; cool.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Millibar inches

1050

1040

1030

1020

1010

1000

990

980

970

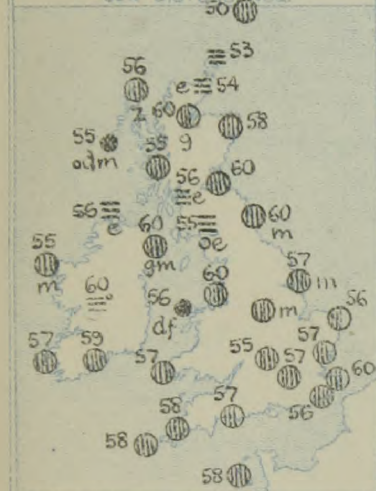


# SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 16<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

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

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

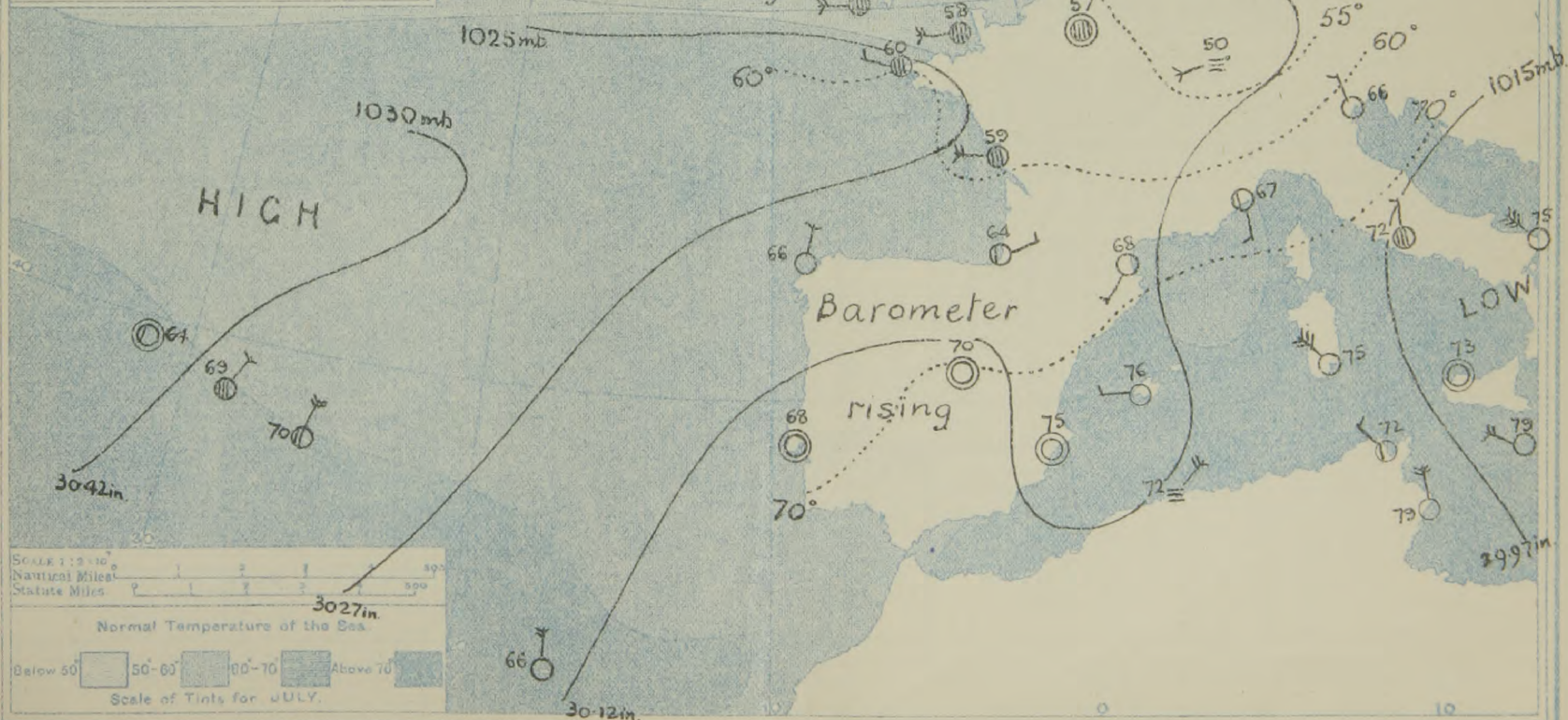
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

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

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

**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 5/8 clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 R, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~



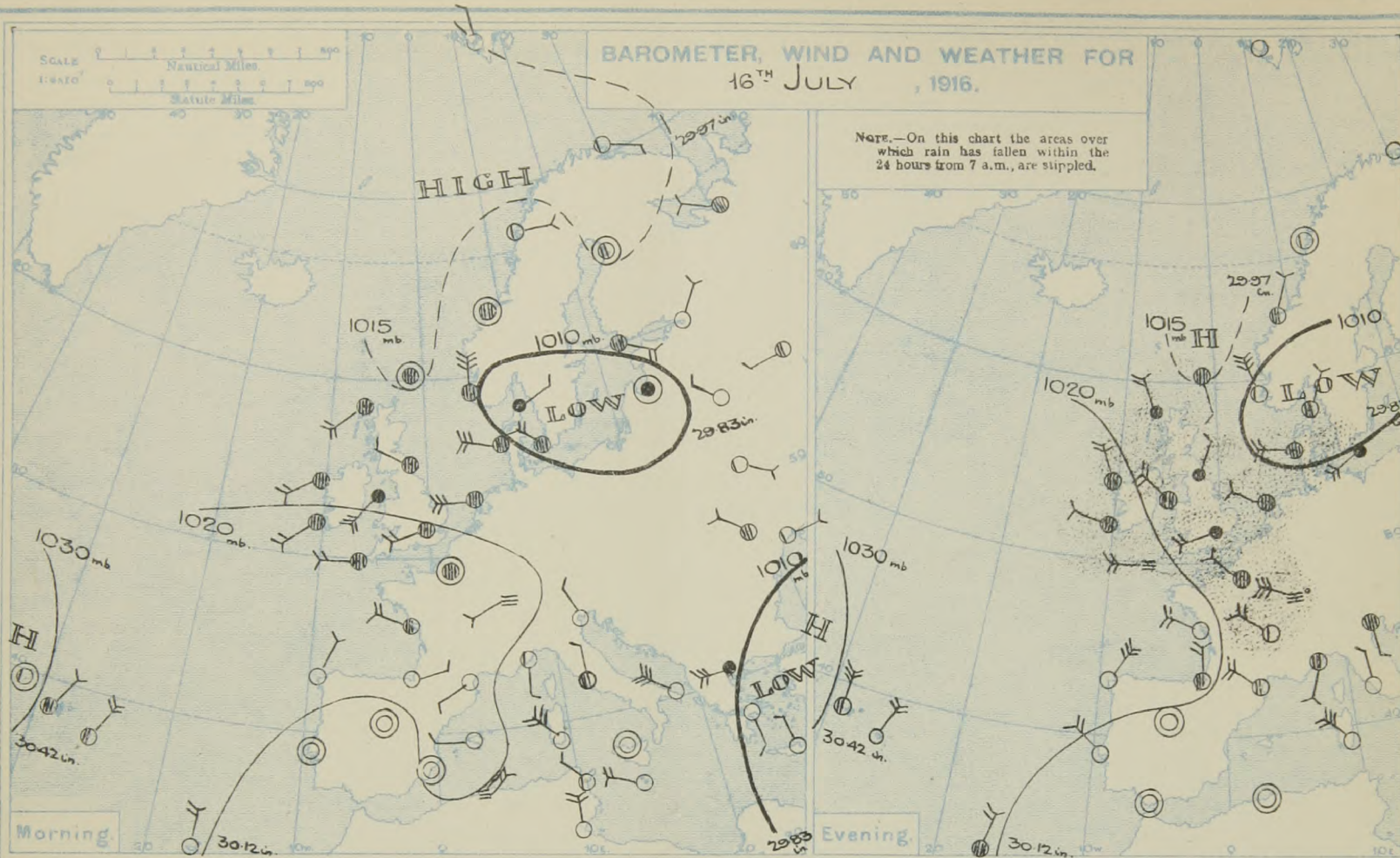






\* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No  
Warnings  
Issued.

Western Channel and Bay. 11

Fresh to moderate Northerly and North-Westerly breezes; fair generally, local showers, mist or fog; cool.

Light to moderate variable Westerly to Northerly breeze; dull, damp, local showers, mist or fog; cool.

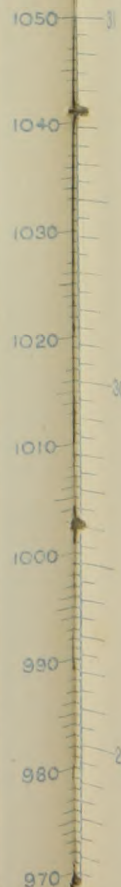
Same as No. 0.

Moderate Northerly breeze; fair generally, local mist; cool.

Light to moderate Northerly breeze; sea moderate; fair to fine, local mist or fog; cool.

FURTHER OUTLOOK.

Millibar Inches

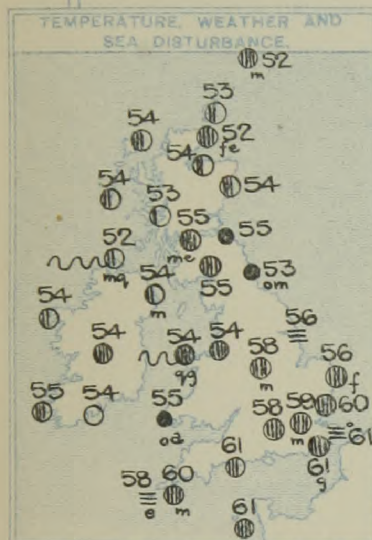




# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 17<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

Some improvement is probable in the west, but elsewhere for the most part the conditions will remain of a dull and damp character.



## 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.

**TEMPERATURE.**—Given in degrees Fahrenheit.

Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

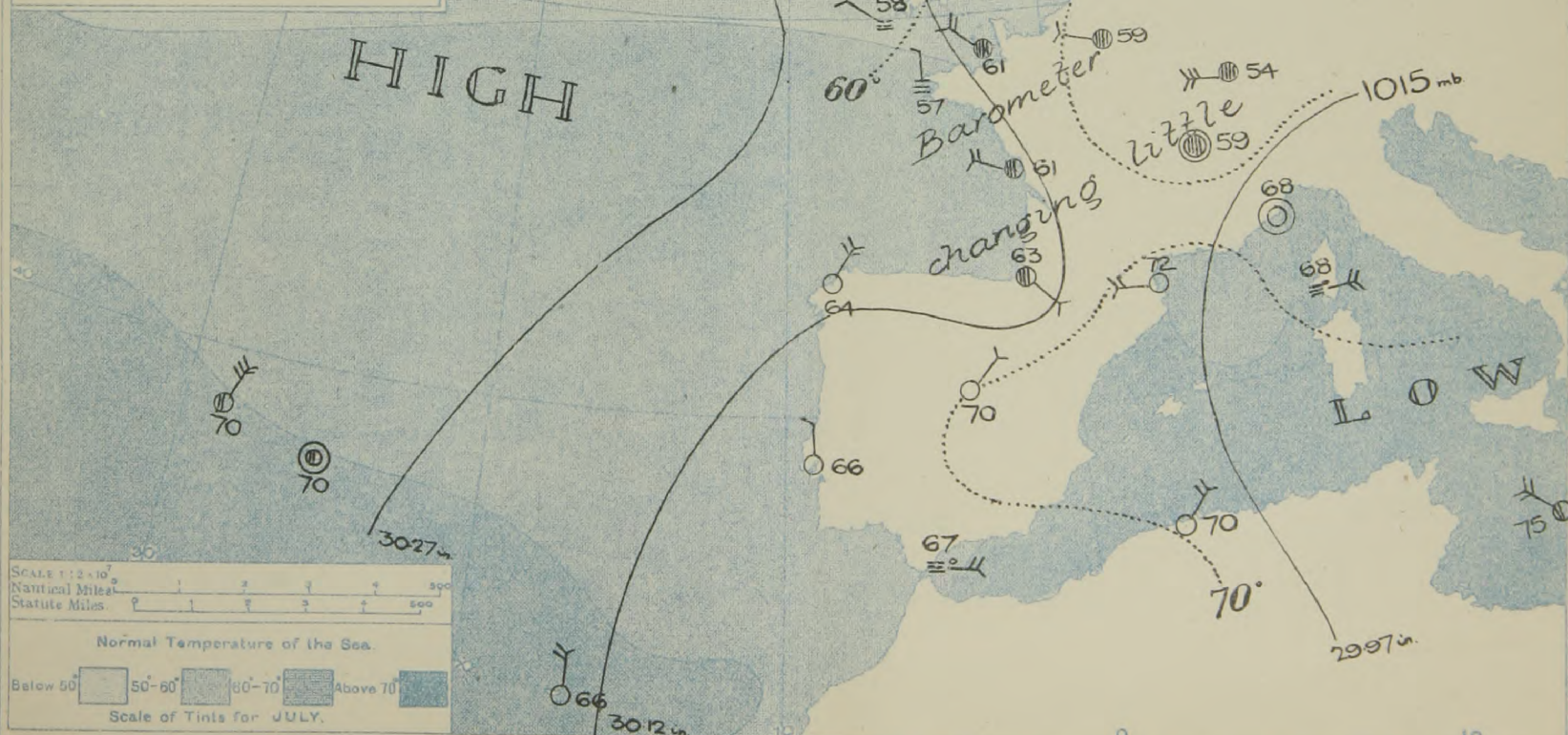
○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.

○ sky ¾ clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

K, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	15 <sup>th</sup> AT 9 P.M. LOCAL TIME.					16 <sup>th</sup> AT 7 A.M. LOCAL TIME.										Rain-fall. Milli-metres.		TEMP. Max. Min.	
	BAROM. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.						
			Direc.	Force 0-12.				Dry Bulb.	F.					Direc.	Force 0-12.				
Archangel ...	1010.6	66	S	4	bc	1012.2	+1	64	0	NW	2	*	0	*	-	*	59		
Gorki ...	1012.0	64	-	0	b	1011.7	0	63	+2	NW	1	*	b	*	-	*	55		
Veliki Luki ...	1014.4	64	-	0	c	1013.1	*	54	-7	E	4	*	bc	*	-	*	52		
Hangö ...	1014.0	54	-	0	b	1011.7	-1	61	+4	ESE	3	*	0	*	-	*	52		
Riga ...	1011.7	64	-	0	c	1008.3	0	64	+3	-	0	*	r	*	-	*	61		
Petrograd ...	1013.6	66	WNW	2	c	1014.7	0	64	-2	NE	3	-	b	*	-	70	57		
Moscow ...	1013.7	64	NNW	1	c	1015.0	+1	66	+5	NW	1	*	b	*	-	*	57		
Kiev ...	1012.8	70	SE	4	0	1011.8	0	66	+2	SE	2	*	b	*	-	*	61		
Kharkov ...	1015.8	59	-	0	b	1013.3	-1	66	+5	-	0	*	c	*	-	*	54		
Kishinev ...	1013.0	72	SE	3	b	1011.5	-2	68	+4	NW	2	*	c	*	-	*	61		
Elisabetgrad ...	1013.9	68	-	0	b	1012.8	-1	64	0	-	0	*	b	*	-	*	52		
Nicolaiev ...	1013.0	73	WSW	2	b	1011.5	*	66	+2	E	2	*	b	*	-	*	57		
Odessa ...	1013.5	73	SW	2	b	1011.3	-1	73	+1	SW	2	*	bc	*	-	*	66		
Tarkhankout ...	1013.3	70	N	1	b	1011.1	*	75	0	ENE	4	*	bc	*	-	*	54		
Soukhom ...																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 15 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	Hr.	STATIONS.	Sun- shine for 15 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	Hr.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.					Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.		
		Mm.	Mm.	°F.	°F.							Mm.	Mm.	°F.	°F.				
Scotland.										England, E.									
Oban ...	0.0	1	0	56	52	m	or	0.0		Lowestoft ...	10.1	-	1	67	52	bcp	bc.0	0.3	
Banff ...	3.7	4	-	61	55	0	0	0.0		Felixstowe ...				67	52	bcp	bc.0	0.3	
Carnoustie ...	8.7	*	*	68	57	c	c.0	0.0		Walton-on-Naze ...				64	48	c.0	0	1.0	
St. Andrews ...										Southend-on-Sea ...	3.1	-	-	64	48	c.0	0	1.0	
England, N.E.										England, S.E.									
Harrogate ...	10.7	2	-	64	52	0	0	0.1		Margate ...				64	52	bcp	bcp	1.8	
Skegness ...	7.6	0.1	0.2	68	53	0.0	u.0	0.0		Ramsgate ...	8.4	-	1	62	52	bcp	bcp	1.8	
										Hastings ...	3.2	*	*	63	50	bc.0	0	1.4	
										Eastbourne ...	4.7	-	-	61	52	bc.0	c.0	2.1	
England, N.W.										Seaford ...									
Morecambe ...										Brighton ...				64	50	bc.0	or	1.5	
Blackpool ...										Worthing ...	5.8	-	1	64	50	bc.0	or	1.5	
Southport ...	1.3	3	1	59	56	or	r.0	0.0		Littlehampton ...			0.3	68	49	0	od. r	0.1	
										Bognor ...	4.8	*	*	65	52	bc.0	or	0.2	
Midlands.										Bournemouth ...	5.5	-	-	65	52	0	0	0.0	
Buxton ...										England, S.W.									
Leamington Spa ...	2.8	4	1	63	48	c.0	op	0.0		Weymouth ...			0.2	67	54	c.0	op	0.2	
Malvern ...										Torquay ...	9.4	-	0.2	67	54	c.0	op	0.2	
Ross-on-Wye ...										Paignton ...									
										Penzance ...									
Wales.										Newquay ...			0.1	62	56	0	r	0.2	
Rhyl ...	5.3	2	1	63	55	p.0.0	op.0	0.0		Bude ...	9.4	-	0.3	61	56	om	om	0.0	
Colwyn Bay ...		*	*	63	57	cd	cd.0	0.0		Ilfracombe ...									
Llandudno ...		*	*	60	55	c	r	0.0		Weston-s-Mare ...									
Aberystwyth ...	3.5	*	*	61	56	r.0.0	c.0	0.0											
Tenby ...																			

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	579 joules.	10.0 Milliwatts	30 Milliwatts			
				Max.	Min.											
				24 HOURS ENDED 9 h. TO-DAY												
	%	%	Hr.	F.	F.	F.	mm.									
Greenwich (Royal Obsy.) ...	82	92	1.0	65	57	57	4	or	or.0	or	Hours of Observation G.M.T.					
City (Bunhill Row) ...	*	*	0.5	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	94	93	0.3	65	52	47	4	or.0	0	or.0	Morning.	Evening.		Morning.	Evening.	
Camden Sq. (Brit. Rainfall)	*	90	0.0	67	57	58	3	*	*	*	h.	h.		h.	h.	
Hampstead (Reservoir) ...	*	94	0.2	62	54	46	4	or	omp	om	British Isles ...	7	18	Corunna ...	7	16
S. Kensington (Museum Grounds)	*	94	0.5	64	56	57	5	bc. or	or.0	or.0	France ...	7	18	Madrid ...	8	16
Richmond Park ...	*	*	0.4	*	*	*	*	*	*	*	Norway ...	7	18	Lisbon ...	7	21
Kew. (See front page.)	*	*	0.9	*	*	*	*	*	*	*	Denmark ...	6	17	Azores ...	8	17
(Greenwich and Camden Square air temperatures are in Glaisher screens.)											Holland ...	6	17	Madeira ...	7	21
											Italy ...	7	20	Malta ...	8	—
											Egypt ...	6	18	Limassol...	6	—

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

17 <sup>th</sup> & 18 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	3.50	11.59	8.17
Greenwich ...	4.41	12.06	8.08
Wick ...	3.34	12.18	8.01
Valencia ...	4.41	12.47	8.51

## NOTES ON YESTERDAY'S WEATHER.

Temperature continued below the normal generally. Slight showers occurred in all districts, and mist or fog was widely prevalent. There was little or no sunshine.

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

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 200

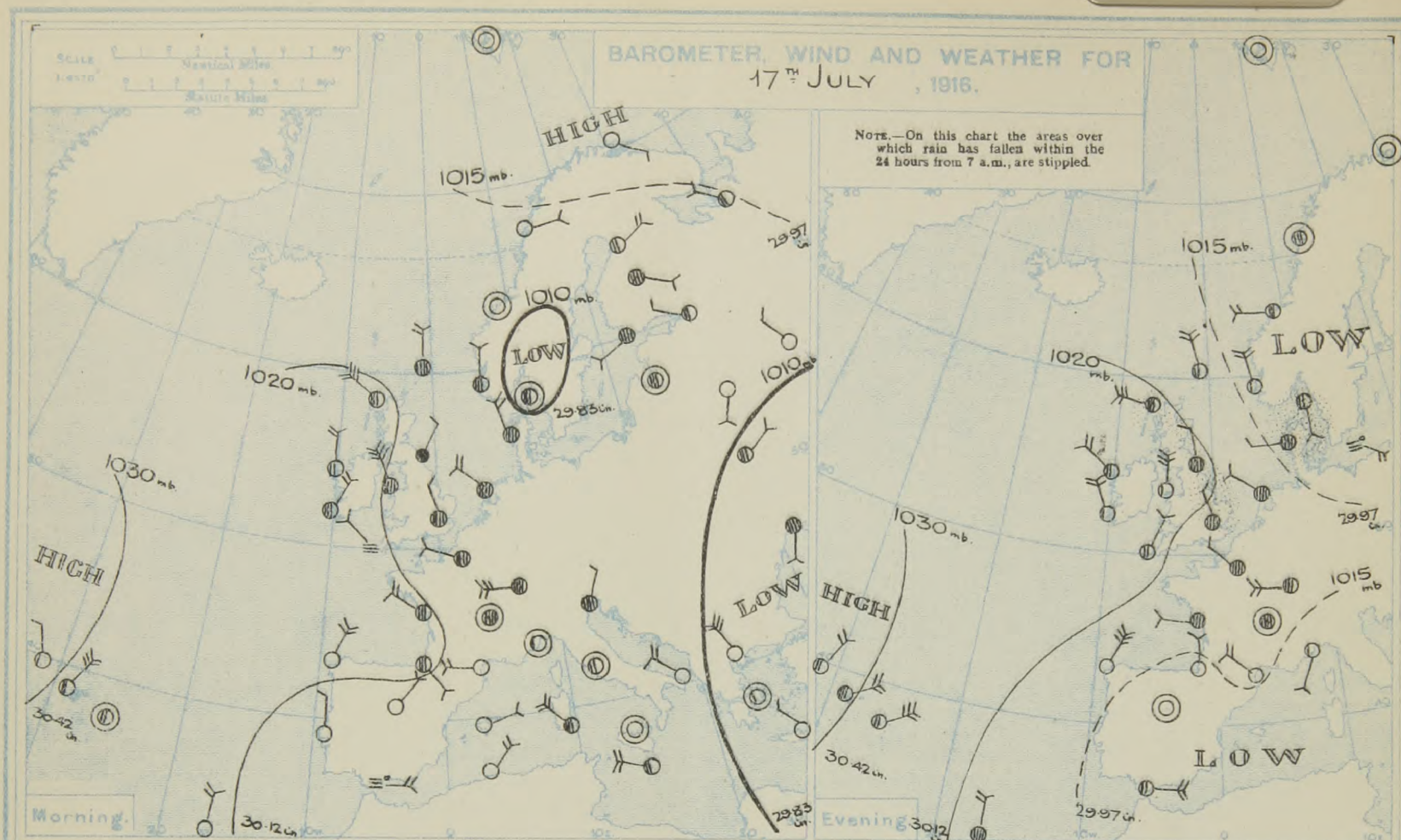
Tuesday,  
18th July.

STATIONS.	YESTERDAY EVENING.				THIS MORNING										PAST 24 HOURS.					Sun- shine for Yester- day Hours.																				
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-8.	Rain- fall. Milli- metres.	TEMP.		WEATHER.																						
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.		Night.																			
																						°F.	°F.																	
BRITISH ISLANDS.	Lerwick ...	1017.8	54	NNW	4	bc	1015.7	-1	52	0	3W	2	-	om	1	-	56	48	om	bc	bc.o	*																		
	Deerness (Orkney) ...	1018.9	54	NW	5	bc	1015.9	*	52	-1	SW	4	-	og	2	-	57	49	bc	bc	bc.og	10.0																		
	Stornoway ...	1020.6	58	WNW	5	c	1016.6	-2	53	-1	SW	1	-	odp	1	1	60	53	c	c	odp	10.2																		
	Castlebay (Barraisd.) ...	1022.7	56	WNW	3	bc	1019.5	-2	53	-1	W	3	-	r	3	1	58	51	bc.m.bc	c.bc	bc.r	10.0																		
	Glasgow ...	1019.7	59	SE	2	cum	1021.1	0	50	-5	W	2	-	cy	*	Trace	65	46	omp.c	cy.alm	c.o.bcc	2.1																		
	Eskdalemuir ...	1020.6	53	E	1	c	1020.8	0	52	-3	W	1	NW	cy	*	-	56	48	o.alm	odm.c	c.o.cy	0.0																		
	Malin Head ...	1023.2	55	N	3	bc.m	1021.7	-2	54	+2	WSW	3	W	cm	3	-	57	52	bcg	bc.m	cm.	9.4																		
	Blackod Point ...	1025.9	55	NNW	3	bcg	1023.3	-2	54	0	WSW	3	W	cg	2	-	58	49	bcg	bcg	cm.bc	12.8																		
	Valencia ...	1025.2	59	NNW	4	b	1025.3	0	50	-5	-	0	-	cg	3	-	62	46	c.b	b	b.bc	12.8																		
	Roche's Point ...	1023.1	66	NNW	3	b	1025.1	*	52	-2	NNW	1	-	og	1	Trace	68	48	b	b	b.og	*																		
	Birr Castle ...	1023.3	62	NW	2	c	1024.5	*	50	-4	3	1	-	bc	*	-	65	44	c	c	bc	10.8																		
	Donaghadee ...	1021.5	56	N	5	bcg	1022.5	0	52	-2	WNW	3	NW	cy	2	-	57	50	*	bcg	bcg	*																		
	Liverpool (Bidston) ...	1019.8	55	W	3	og	1021.7	+1	55	+1	-	0	-	bc	1	-	58	53	o	bc	bc.m	0.0																		
	Holyhead ...	1021.4	57	N	5	bcg	1022.6	+1	53	-1	N	5	N	cf	5	-	61	52	o.c.bc	bc.b	b.bcc	8.7																		
	Pembroke (St. Ann's) ...	1021.5	60	N	3	b	1022.7	+1	52	-3	NNE	3	NE	c	2	-	61	48	od.bc	bcg	b	10.0																		
	Scilly (St. Mary's) ...	1022.6	59	NNE	2	bc	1022.8	0	56	-2	NNE	3	NE	b	4	0.4	62	54	fc	c.bc	bc.b	3.5																		
	Falmouth ...	1021.1	60	N	4	bcg	1021.3	+1	55	-5	N	4	-	b	*	-	66	51	om.c.o	o.cg	b	4.6																		
	Jersey (St. Aubin) ...	1019.3	63	WNW	2	og	1018.6	*	60	-1	N	3	-	o	2	-	69	55	o.c.bc	bc.b.o	o.c.o	3.7																		
	Portland Bill ...	1018.5	62	WNW	2	og	1019.2	0	58	-3	N	3	N	c	3	-	65	56	bc.c	bc.c	bc.c.o	*																		
	Dungeness ...	1017.5	60	-	0	og	1017.7	0	55	-6	NE	4	-	og	3	-	62	54	od.fc	om.o	o.c.o	*																		
	Dover ...	1018.8	54	-	0	x	1018.3	+1	54	-7	NE	4	NE	ond	4	1	64	53	*	*	o.c.m.d	0.0																		
	Wick ...	1019.5	54	NW	4	c	1017.2	-1	54	+2	WNW	2	NW	o	2	-	57	47	o.c	c	bc.og	*																		
	Nairn ...	1020.6	58	NNW	3	c	1018.3	*	53	-1	NW	4	-	og	1	-	61	47	c.bc	bcg	bc.c	3.3																		
	Aberdeen ...	1020.0	58	NNW	3	bc	1018.8	0	55	-4	W	1	-	o	2	-	62	44	c.bc	bc	bc.o	8.6																		
	Leith ...	1019.8	64	SE	1	bc	1020.5	0	52	-3	W	1	W	c	1	2	67	47	r	o.c.bc	bc.o.c	*																		
	Tynemouth ...	1020.3	54	NNW	1	om	1020.1	0	52	-1	W	1	W	bc.m	2	1	54	48	cmr	cmr	bc.m	*																		
	Spurn Head ...	1019.9	54	N	4	o	1020.7	+1	52	-4	N	4	-	bc	4	2	57	49	fc	fc	bc	0.0																		
	Yarmouth ...	1018.4	58	ESE	1	o	1019.6	0	53	-3	NE	2	-	bc	2	3	62	51	af.bc	bc.ond	omr.bc	0.0																		
	Clacton-on-Sea ...	1017.9	61	SE	1	o	1019.7	+1	53	-7	NNW	3	N	o	2	5	65	52	og	og	ogp.d.r	0.0																		
	Nottingham ...	1020.1	50	NE	2	o	1021.4	*	54	-4	NE	2	NE	o	*	0.4	61	52	om	odgm	o	0.0																		
	Benson (Oxon.) ...	1018.5	61	NNW	2	o	1020.5	+2	52	-6	NNE	3	-	o	*	1	63	52	og	og	ogd.o	*																		
	Sth Farnborough ...	1017.9	62	WNW	3	m	1019.3	+1	53	-7	NE	2	-	om	*	Trace	64	52	om	om	ond	0.0																		
	London (Kew Obsy.) ...	1018.2	63	NW	1	o	1019.8	+1	54	-5	ESE	2	-	o	*	0.3	65	53	om.oad.o	om	om.oad.o	0.0																		
NORTHERN EUROPE.	Spitsbergen ...	1011.8	50	-	0	b	1009.3	-2	43	-3	N	2	*	m	*	*	52	43	*	*	*	*																		
	Vardö ...	1012.8	59	-	0	b	1009.3	-3	66	-	S	1	-	o	2	*	59	46	*	*	*	*																		
	Bodö ...	1010.6	63	-	0	c	1009.1	0	61	-7	-	0	-	r	1	3	70	57	*	*	*	*																		
	Christiansund ...	1011.5	67	W	3	c	1012.0	0	54	-5	WNW	3	-	r	3	Trace	59	54	*	*	*	*																		
	Skudesnaes ...	1012.6	57	NNW	4	b	1013.1	0	54	-3	NNW	6	-	f	2	1	63	52	*	*	*	*																		
	Færder (Ctaniafjord) ...	1012.6	63	S	2	bc	1012.8	0	61	0	SSE	1	-	b	1	1	64	59	*	*	*	*																		
	The Scaw (Skagen) ...	1013.2	57	W	1	o	1013.3	0	57	0	SW	1	-	o	2	2	61	54	*	*	*	*																		
	Blaavands Huk ...	1012.3	63	S	2	bc	1013.3	0	57	0	SE	2	-	o	*	Trace	63	55	*	*	*	*																		
	Bornholm ...	1012.7	57	ESE	3	m	1013.0	-1	55	-2	ESE	2	-	f	0	-	61	54	*	*	*	*																		
FRANCE, & G.	The Helder ...	1017.1	57	WNW	2	o	1016.6	0	55	0	NW	3	-	o	2	-	59	55	*	*	*	*																		
	C. Gris Nez ...	1015.9	63	NE	3	m	1017.9	+1	54	-5	NE	6	*	r	4	Trace	64	56	*	*	*	*																		
	La Hève ...	1018.7	61	NNW	2	bc	1018.3	*	58	+1	N	2	*	f	2	-	66	54	*	*	*	*																		
	Brest (St. Mathieu) ...	1020.8	61	N	2	m	1020.4	0	55	-2	NNE	1	*	c	3	-	61	64	*	*	*	*																		
	Rochefort (Ile d'Alx) ...	1019.3	64	W	2	o	1017.1	0	64	+3	W	1	*	m	*	-	66	61	*	*	*	*																		
	Biarritz ...	1014.6	54	N	2	b	1016.4	0	61	-2	E	3	*	o	2	-	75	59	*	*	*	*																		
	Paris ...	1017.1	68	NW	1	o	1017.1	0	61	+2	NNE	1	-	o	*	-	70	59	*	*	*	*																		
	Belfort ...	1017.6	64	W	4	c	1018.3	*	56	+2	W	3	*	o	*	2	70	56	*	*	*	*																		
	Lyons ...	1018.7	63	-	0	o	1019.5	*	61	+2	-	0	*	o	*	-	67	58	*	*	*	*																		
SOUTHERN STATIONS.	Nice ...	1010.7	70	SW	2	b	1013.0	+2	70	+2	-	0	*	c	1	-	81	64	*	*	*	*																		
	Perpignan ...	1015.1	79	NW	3	b	1015.4	0	72	0	W	2	-	b	*	-	86	63	*	*	*	*																		
	Sanguinaire ...	*	72	S	3	m	*	*	68	0	E	2	*	m	3	-	74	64	*	*	*	*																		
	Corunna ...	1017.3	70	NNE	6	b	1014.3	-1	64	0	NE	4	E	b	1	-	78	61	*	*	*	*																		
	Madrid ...	1011.3	88	-	0	b	1012.2	0	73	+3	E	1	-	b	*	-	90	66	*	*	*	*																		
	Lisbon ...	*	*	-	0	b	*	*	73	+3	E	1	-	b	*	-	90	66	*	*	*	*																		
	Azores ...	1030.1	*	NE	4	c	1028.7	0	68	-1	NNE	4	*	r	2	1	75	68	*	*	*	*																		
	Madeira ...	1019.5	70	N	3	o	1018.3	0	64	-2	N	4	-	b	3	-	73	64	*	*	*	*																		
	Gibraltar ...	1014.2	71	E	4	bc	1013.2	*	71	+4	E	3	*	o	2	-	77	66	*	*	*	*																		
MEDITERRANEAN.	Malta ...	*	*	*	*	*	1011.7	+3	73	-2	NW	4	-	b	3	-	81	72	*	*	*	*																		
	Limassol ...	*	*	*	*	*	1004.4	0	88	+4	WSW	2	-	b	2	-	90	70	*	*	*	*																		
	Alexandria ...	1007.1	79	NNW	4	b	1008.0	+2	81	-1	W	1	NE	b	1	-	90	75	*	*	*	*																		
	Cairo (Helwan) ...	1006.0	90	N	2	b	1008.0	+1	77	0	-	0	-	b	*	-	97	70	*	*	*	*																		
	YESTERDAY'S REPORTS	16th July, 20 h. G.M.T.					17th July, 7 h. G.M.T.										PAST																							

## RAINFALL

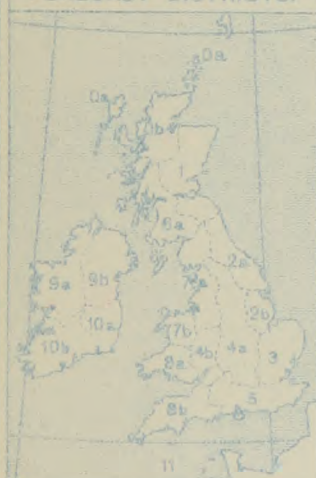
Equivalents of Millimetres in Inches.





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

Signals hoisted yesterday.

South Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No  
Warnings  
Issued.

Western Channel and Bay 11

Moderate winds between West and South-West,  
freshening a little; dull, some rain, remaining cold.

Light or moderate Northerly winds, backing North-  
West or West later, unsettled, showery, fair intervals;  
cold.

Same as Nos. 0 to 2a.

Moderate Northerly winds, backing North-West or  
West; unsettled, showery; cool.

Same as Nos. 0 to 2a.

Light Westerly or South-Westerly winds becoming  
moderate; unsettled, showery; cool.

Light winds between West and North; smooth sea;  
fair, some mist.

FURTHER OUTLOOK.

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

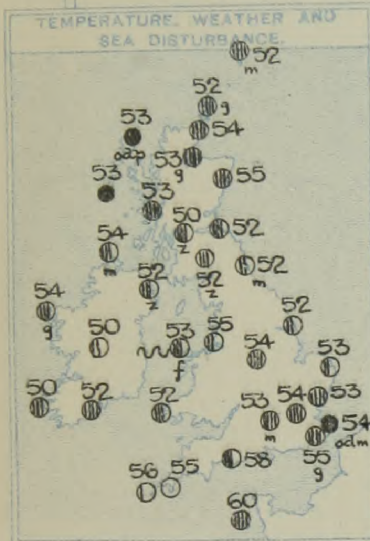
NAPIER SHAW, Director



# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 18<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

The depression off the Hebrides will influence the north of the country but its effect will not be much felt in the south at 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.

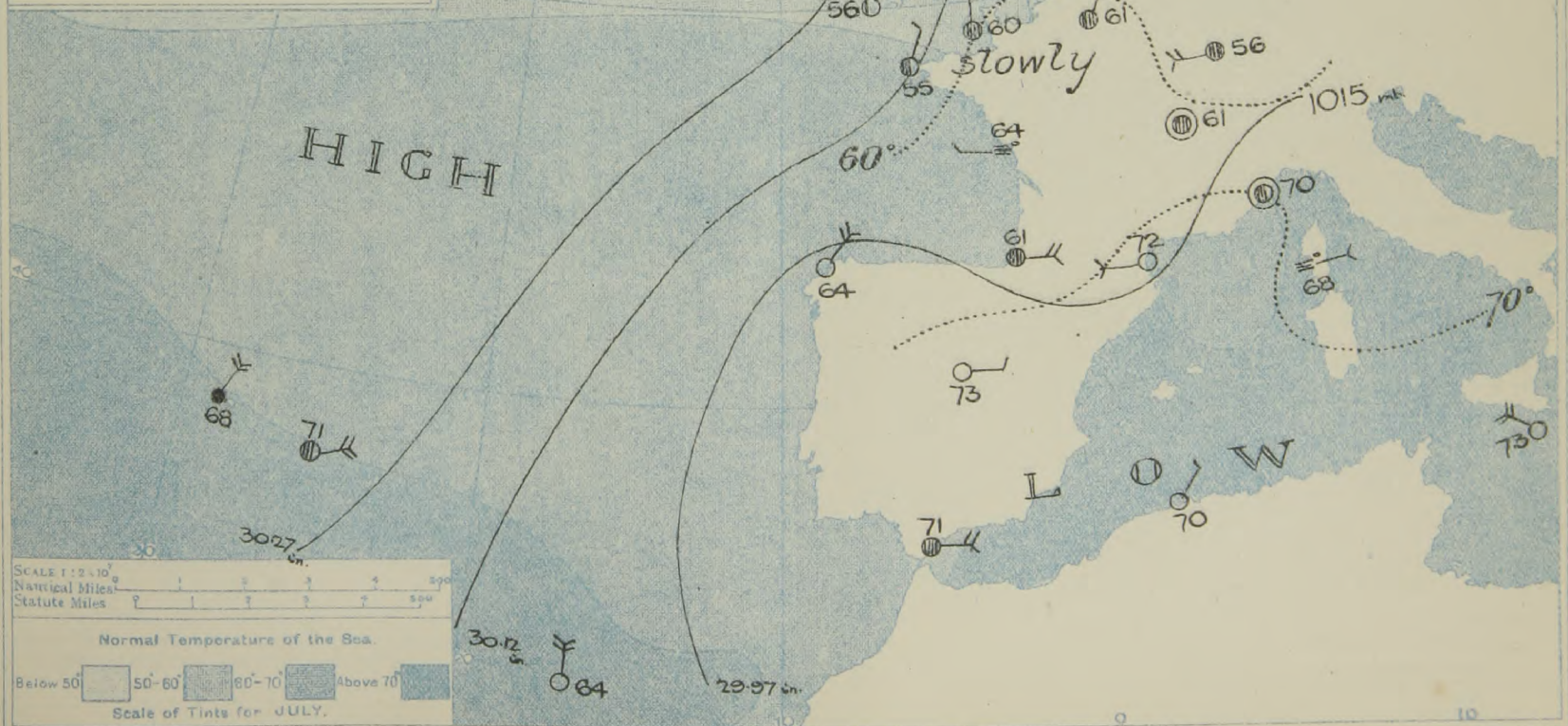
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 3/4 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	16 <sup>th</sup> AT 9 P.M. LOCAL TIME					17 <sup>th</sup> AT 7 A.M. LOCAL TIME										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dir. Bulb.	Change in 24 hours.	Direc.	Force 0-12.								
Archangel ...	1013.4	68	WNW	2	bc	1015.0	+1	61	-3	NW	2	*	bc	*	-	*	55		
Gorki ...	1010.7	66	-	0	b	1011.7	0	75	+12	SSW	2	*	b	*	-	*	55		
Veliki Luki ...	...	...	...	...	...	1013.3	*	66	+12	-	0	*	b	*	-	*	57		
Hangö ...	1011.1	57	SSE	2	r	1014.4	+1	55	-6	WSW	2	*	o	*	1	*	52		
Riga ...	1012.3	59	-	0	o	1013.9	+1	59	-5	-	0	*	c	*	3	*	55		
Petrograd ...	1014.0	68	E	3	c	1014.4	0	70	+6	E	2	N	bc	*	-	77	63		
Moscow ...	1014.3	66	NNE	1	b	1013.6	0	66	0	NNW	1	*	b	*	-	*	59		
Kiev ...	1009.7	72	ESE	2	o	1007.8	0	68	+2	NE	2	*	c	*	-	*	64		
Kharkov ...	1003.2	66	-	0	bc	...	...	...	...	...	...	*	*	*	-	*	...		
Kishinev ...	...	...	...	...	...	...	...	...	...	...	...	*	*	*	-	*	...		
Elisabetgrad ...	1008.0	73	E	3	o	1006.4	-2	64	0	WSW	2	*	o	*	-	*	63		
Nicolaiev ...	1005.6	77	SE	4	b	1002.6	*	72	+6	ESE	4	*	o	*	-	*	61		
Odessa ...	1005.7	79	SSE	2	o	1002.3	-2	72	-1	SW	2	*	o	o	1	*	68		
Tarkhankout ...	1006.0	73	NNE	1	bc	1004.0	?	73	-2	SW	4	*	bc	o	-	*	68		
Soukhom ...	1003.0	79	NNE	1	b	1003.0	+1	75	-	NNE	2	*	o	?	-	*	72		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 16 <sup>th</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for 16 <sup>th</sup>	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	F.	F.						Mm.	Mm.	F.	F.			
Scotland.									England, E.								
Oban ...	0.0	0.3	-	61	52	b.	bc	8.8	Lowestoft ...	0.3	0.2	-	64	56	o.	o.c.o.	0.5
Banff ...	0.0	-	-	58	52	bc	bc	6.5	Felixstowe ...	0.3	0.2	-	62	58	om	om	0.2
Carnoustie ...	0.0	*	*	58	52	o.	o.bc	1.4	Walton-on-Naze ...	...	...	...	...	...	...	...	...
St. Andrews ...	...	6	-	61	51	c.	c.	0.5	Southend-on-Sea ...	1.0	1	-	63	59	og	og	0.0
England, N.E.									England, S.E.								
Harrogate ...	...	2	2	57	50	h.d	d.o	0.0	Margate ...	...	0.3	-	62	58	o.m	c.	0.0
Skegness ...	0.0	1	0.4	61	55	m.d.o.	d.p.g	0.0	Ramsgate ...	1.8	0.4	-	62	57	o	o.	0.2
England, N.W.									Hastings ...	1.4	*	*	64	59	or.o	od.o	0.0
Morecambe ...	...	...	...	...	...	...	...	...	Eastbourne ...	2.1	3	0.2	68	59	od	co	0.0
Blackpool ...	...	...	...	...	...	...	...	...	Seaford ...	1.4	*	*	65	58	o	r.o	0.0
Southport ...	...	0.3	0.3	58	55	o	or	0.0	Brighton ...	...	1	-	67	60	o	o	0.2
Midlands.									Worthing ...	1.5	2	-	66	60	a.	a.	0.7
Buxton ...	...	...	...	...	...	...	...	...	Littlehampton ...	0.9	2	-	67	59	bc	o	1.0
Leamington Spa ...	0.0	0.1	-	62	56	o.	omc	0.0	Bognor ...	0.2	*	*	66	60	bc	bc.o	1.0
Malvern ...	...	-	-	63	57	oe	co	0.0	Bournemouth ...	0.0	-	-	67	58	c	o	1.9
Ross-on-Wye ...	...	-	-	66	55	c.bc	bcx	0.1	Weymouth ...	...	-	-	72	58	bc	bm	5.0
Wales.									Torquay ...	0.2	0.2	-	70	60	c.bc	bc.b	6.7
Rhyl ...	0.0	1.0	-	63	53	o	o	0.0	Paignton ...	...	...	...	...	...	...	...	...
Colwyn Bay ...	0.0	*	*	58	53	c	c	0.4	Penzance ...	...	0.3	-	64	60	o	c.bc	2.0
Llandudno ...	0.0	*	*	58	53	c	c	1.2	Newquay ...	0.2	1	0.1	60	57	cd.c	bc	2.0
Aberystwyth ...	0.0	*	*	60	55	oc	c.bc	4.0	Bude ...	0.0	0.3	-	64	57	c	bc	3.5
Tenby ...	...	-	-	65	61	bc	bc	8.5	Ilfracombe ...	...	-	-	63	53	bc.b	b.bc	6.2
									Weston-s-Mare ...	...	-	-	65	56	b.bc.c	bc.b	5.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall.	WEATHER.			South Kensington.			
	15 h. Yester- day.	9 h. To- day.		In Screen.	Min on Grass.		Fore- noon.	After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.	Total.	Average Rate.	Max. Rate.
	%	%		Max.	Min.						483 Joules.	83 Milliwatts.	3.8 Milliwatts
Greenwich (Royal Obs.) ...	85	77	0.0	64	52	53	1	o	oe	oe	Hours of Observation G.M.T.		
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*			
Westminster (St. James's Pk.)	83	76	0.0	66	53	53	1	o	o od	a. bc	Morning.	Evening.	Morning.
Camden Sq. (Brit. Rainfall)	78	74	0.0	67	53	54	1	od.o	o	o	h.	h.	h.
Hampstead (Reservoir) ...	*	86	0.0	63	49	41	1	o	od	o	7	18	7
S. Kensington (Museum Grounds)	*	77	0.0	66	53	52	0.4	o	o	o o.o	France ...	18	18
Richmond Park ...	*	*	0.0	*	*	*	*	*	*	*	Norway ...	18	18
Kew. (See front page.)	*	*	0.0	*	*	*	*	*	*	*	Denmark ...	17	17
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	*	*	0.0	*	*	*	*	*	*	*	Holland ...	17	21
											Italy ...	20	8
											Egypt ...	18	6

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

18 <sup>th</sup> + 19 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 3.51 G.M.T. 11.59 G.M.T. 8.57	G.M.T. 11.59 G.M.T. 8.57 G.M.T. 3.51	G.M.T. 8.57 G.M.T. 3.51 G.M.T. 11.59
Greenwich ...	G.M.T. 3.51 G.M.T. 11.59 G.M.T. 8.57	G.M.T. 11.59 G.M.T. 8.57 G.M.T. 3.51	G.M.T. 8.57 G.M.T. 3.51 G.M.T. 11.59
Wick ...	G.M.T. 3.51 G.M.T. 11.59 G.M.T. 8.57	G.M.T. 11.59 G.M.T. 8.57 G.M.T. 3.51	G.M.T. 8.57 G.M.T. 3.51 G.M.T. 11.59
Valencia ...	G.M.T. 3.51 G.M.T. 11.59 G.M.T. 8.57	G.M.T. 11.59 G.M.T. 8.57 G.M.T. 3.51	G.M.T. 8.57 G.M.T. 3.51 G.M.T. 11.59

## NOTES ON YESTERDAY'S WEATHER.

Slight rain fell in the south-east of the country.  
Sunshine ranged up to 10 hours at a few stations in the  
north-west. Temperature remained for the most part  
below 65°.

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

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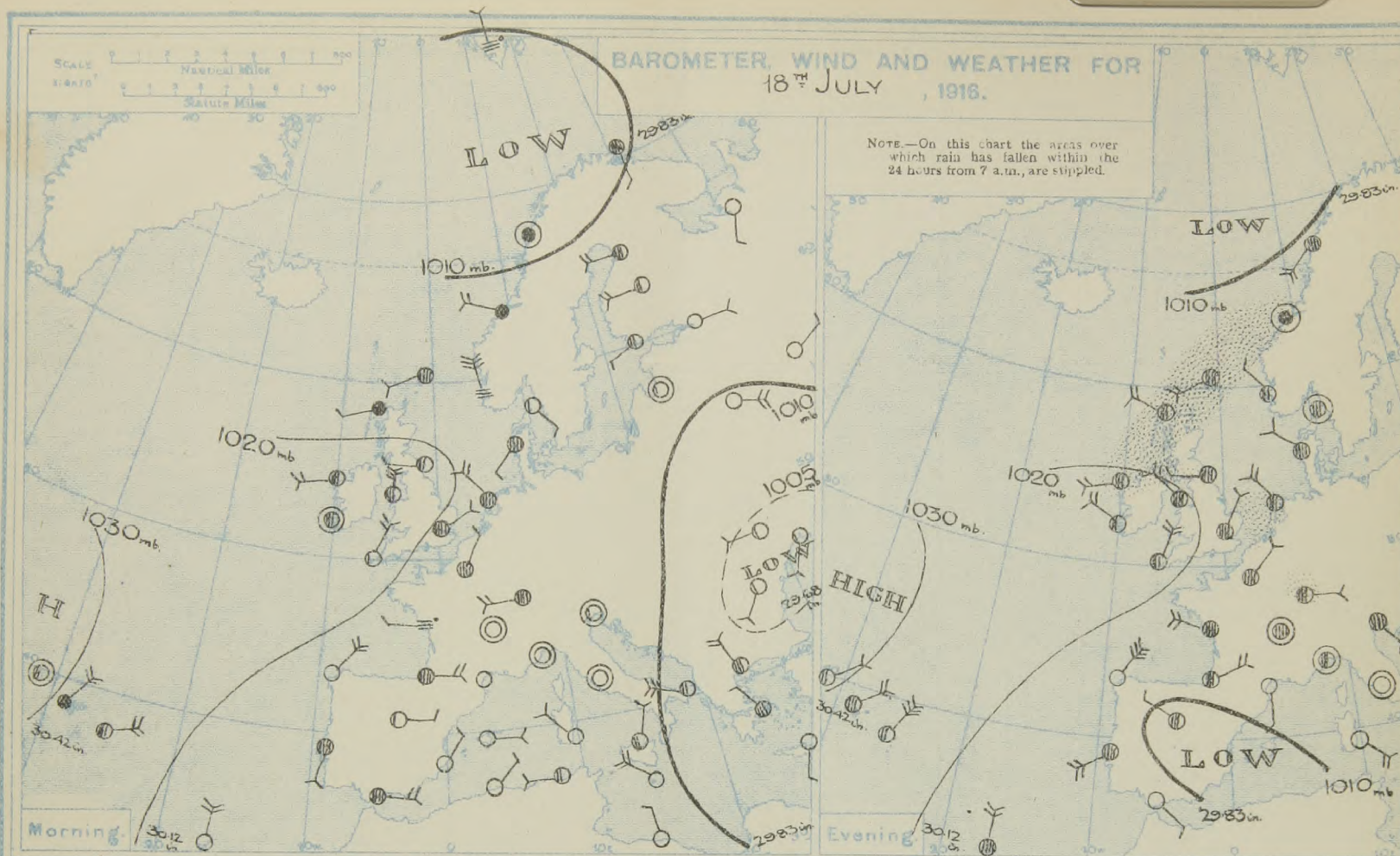


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 201

Wednesday, 19th July.

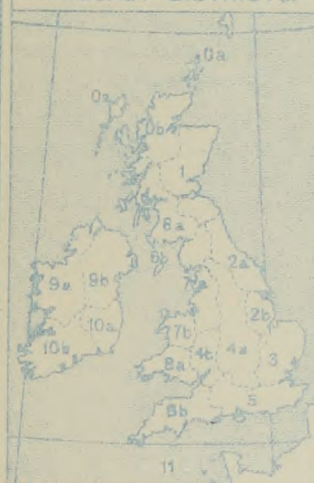
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day Hours.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1012.8	52	SW	3	om	1014.3	+1	52	0	SW	2	-	o	1	3	53	49	omp	om	om.	*
	Deerness (Orkney) ...	1013.5	53	WSW	3	og	1014.2	*	52	0	SSW	1	-	om	1	6	54	51	ogr	r.o	of.m	0.0
	Stornoway ...	1013.8	56	WNW	3	c	1014.9	+1	53	0	WSW	3	-	o	3	1	58	52	odp	odp.c	c.o	0.0
	Castlebay (Barra Isd.) ...	1015.8	55	W	4	om	1016.8	0	52	-1	-	0	-	md.	1	2	55	51	r	r.om	omdp.m	0.0
	Glasgow ...	1017.5	51	SW	3	omr	1017.4	+1	53	+3	W	2	NW	bcz	*	2	55	50	em.omp	omp.or	omr.op	0.0
	Eskdalemuir ...	1018.2	53	SW	3	o	1017.7	+1	53	+1	-	0	NW	c	*	1	58	48	cj.bc.o	o	o.odm	2.4
	Malin Head ...	1018.0	57	W	5	cmg	1018.1	0	54	0	SW	3	-	fe	4	0.2	57	53	omg	omg	fe	0.0
	Blacksod Point ...	1021.6	56	WSW	3	em	1020.5	0	55	+1	WSW	3	-	of	3	1	58	53	egm	em	em.ond	*
	Valencia ...	1024.2	61	WNW	3	bc	1023.1	0	58	+8	-	0	-	o	4	-	62	50	bc.b	bc.b	bc.b	10.6
	Roche's Point ...	1023.6	63	NNW	1	o	1023.5	*	57	+5	NNW	1	N	c	1	-	67	51	c	c.o	a.c.	*
	Birr Castle ...	1024.9	59	SW	1	o	1024.7	*	55	+5	SW	1	-	c	*	-	61	49	c	c.o	c	3.2
	Donaghadee ...	1019.2	56	W	4	ogm	1019.2	+2	55	+3	WNW	3	NW	bcz	1	0.1	59	52	x	ogm	egm.bc	*
	Liverpool (Bidston) ...	1021.0	54	W	3	b	1019.4	0	55	0	W	3	W	o	3	-	58	54	om	bc.o	o	2.4
	Holyhead ...	1021.6	57	NW	3	og	1020.3	0	55	+2	W	5	NW	eg	4	-	60	53	c.bc.o	og	o.c.bc.o	5.8
	Pembroke (St. Ann's) ...	1021.9	58	N	3	c	1022.1	0	56	+4	NW	2	NE	bc	1	-	61	51	c.bc	bc.c	bc	6.5
	Scilly (St. Mary's) ...	1022.1	68	NNE	4	c	1022.4	0	58	+2	-	0	-	b	2	-	60	53	bc.c	bc.c	bc.b	14.2
	Falmouth ...	1021.3	60	N	3	b	1021.6	0	58	+3	N	3	-	b	*	-	65	51	b	bg.b	b	13.9
	Jersey (St. Aubin) ...	1019.9	60	NE	3	ag	1020.3	*	60	0	N	2	-	bm	1	-	62	54	o.c.og	o.c.og	c.b.mw	4.3
	Portland Bill ...	1019.6	60	W	1	o	1020.2	0	59	+1	NNE	1	-	b	1	-	64	54	c	c.bc	bc.b	*
	Dungeness ...	1018.9	58	NE	4	a	1019.6	0	55	0	WNW	2	NW	c	2	-	60	47	o.bc	bc	bc.o.c	*
	Dover ...	*	*	*	*	*	1019.3	0	57	+3	NW	2	-	c	2	-	62	46	o.c.bc	bc.b	b.bc.c	5.9
	Wick ...	1013.8	52	SSW	2	o	1014.8	+1	52	-2	S	2	-	m	1	3	56	51	ogr	og	opd.me	*
	Nairn ...	1014.5	56	W	2	ow	1015.4	*	55	+2	W	1	-	eg	1	1	58	51	d.cj	eg	cu	0.0
	Aberdeen ...	1015.1	58	SW	2	o	1015.6	+1	55	0	-	0	-	ogm	2	0.2	59	53	op	o	omgd.	0.0
Leith ...	1016.7	55	W	1	o	1016.1	0	55	+3	WSW	1	W	c	1	-	58	51	c.og.o	o	og.o.c	*	
Tynemouth ...	1018.7	58	W	1	om	1016.7	0	55	+3	WNW	2	-	ogm	3	Trace	65	52	bcm.	om.	omp	*	
Spurn Head ...	1019.0	61	S	4	o	1018.3	0	56	+4	W	4	-	o	4	-	63	50	bc	bc.o	o	9.2	
Yarmouth ...	1019.6	57	NE	2	bc	1019.0	0	54	+1	NW	2	-	om	1	0.4	61	52	bc	bc	c.or.om	10.0	
Clacton-on-Sea ...	1019.7	58	ESE	3	c	1019.2	0	56	+3	NW	2	NW	c	1	-	63	52	og.c.bc	bc.c	c.bc.c	7.0	
Nottingham ...	1019.1	62	NW	2	c	1019.1	*	56	+2	WSW	1	W	bcm	*	-	66	51	c.bc.o	o.c	c.o.	3.5	
Benson (Oxon.) ...	1019.5	66	-	0	bc	1020.3	0	56	+4	NNW	1	-	b	*	-	67	50	b	b	c.b	*	
Sth Farnborough ...	1018.9	64	NE	3	c	1019.7	+1	56	+3	NW	2	-	b	*	-	68	51	m.o.b	b.bc.o	c.bc	5.9	
London (Kew Obsy.) ...	1019.4	64	NNE	2	o	1020.1	0	57	+3	NNW	2	N	b	*	-	66	53	o.c.bc	bc.c.o	o.b.b	6.7	
NORTHERN EUROPE.	Spitsbergen ...												*	*	*							
	Vardö ...													*	*							
	Bodö ...																					
	Christiansund ...	1010.7	55	SW	4	o	1012.0	0	55	-6	W	1	-	b	1	-	61	55				
	Skudesnaes ...	1012.6	54	-	0	r	1013.0	0	54	0	-	0	-	o	3	14	56	50				
	Færder (X'ianiafjord) ...	1013.0	54	NW	1	c	1012.2	0	54	0	N	2	-	c	2	-	59	54				
	The Scaw (Skagen) ...																					
	Blaavands Huk ...	1011.0	61	-	0	c	1009.7	0	59	-2	SW	3	S	c	3	-	64	54				
Copenhagen ...	1013.7	57	NW	2	o	1014.7	0	55	-2	NW	3	-	o	3	-	63	54					
Bornholm ...	1012.3	63	W	2	c	1012.3	0	55	-2	NNW	3	-	o	*	-	66	55					
FRANCE, &c.		1012.7	59	W	3	m	1012.3	0	55	0	NW	2	-	f	0	6	63	52				
	The Helder ...	1017.6	57	NW	3	c	1018.3	0	58	0	W	1	-	o	1	1	57	54				
	C. Gris Nez ...	1018.9	55	NE	5	bc	1019.5	+1	55	+1	SW	1	*	o	1	Trace	61	50				
	La Hève ...	1018.1	57	NE	2	m	1019.5	*	55	-3	-	0	*	bc	0	-	66	52				
	Brest (St. Mathieu) ...	1020.0	66	NE	4	b	1020.4	0	56	+1	NE	3	*	c	2	-	68	54				
	Rochefort (Ile d'Als) ...	1014.9	64	WNW	4	o	1015.9	0	61	-3	ENE	5	*	o	*	-	72	59				
	Biarritz ...	1013.3	68	ENE	3	c	1013.6	0	69	+8	-	0	*	c	2	-	72	64				
	Paris ...	1016.4	63	NE	2	o	1016.7	+1	57	-4	NNE	2	-	bc	*	-	72	52				
Belfort ...	1015.1	66	E	2	c	1017.1	*	55	-1	E	2	*	f	*	1	73	55					
Lyons ...	1013.9	72	-	0	o	1015.9	*	61	0	N	2	*	c	-	-	75	57					
Nice ...	1011.7	68	-	0	c	1014.0	+2	66	-4	S	1	*	c	0	-	84	61					
Perpignan ...	1011.4	77	S	1	b	1013.3	+1	75	+3	-	0	-	b	*	-	91	64					
Sanguinaire ...	*	73	S	4	m	*	*	67	-1	S	3	*	o	3	-	77	59					
SOUTHERN STATIONS.	Corunna ...	1011.5	72	NE	6	b	1013.0	+2	66	+2	NE	4	-	b	3	-	73	61				
	Madrid ...	1006.7	82	WNW	1	c	1011.7	+2	72	-1	E	1	-	b	*	Trace	88	64				
	Lisbon ...	1009.1	68	SW	4	o	1010.3	+1	63	+2	SE	2	-	o	5	Trace	72	63				
	Azores ...	1028.4	*	NE	4	c	1026.1	0	66	-2	NNE	3	*	b	1	-	75	66				
	Madeira ...	1016.8	70	N	4	o	1016.8	0	68	+4	N	2	-	o	2	-	72	68				
	Gibraltar ...	1012.8	68	SE	1	b	1012.8	*	65	-6	W	3	0	b	3	-	80	64				
	Malta ...	*	*	*	*	*	1016.6	+2	77	+4	SW	1	-	b	0	-	79	70				
	Limassol ...	*	*	*	*	*	1006.9	+1	86	-2	W	4	NW	b	3	-	93	72				
Alexandria ...	1009.7	79	NNW	3	b	1013.0	+3	79	-2	-	0	-	b	0	-	90	73					
Cairo (Helwan) ...	1009.2	88	N	3	b	1011.7	+1	81	+4	-	0	-	b	*	-	97	7					





FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No  
Warnings  
Issued.

Western Channel and Bay 11

0 a } Light Westerly winds; cloudy, some showers, misty;  
b } cool.

1 a } Light winds between West and North-West; fair, coast  
b } mist; warmer day temperatures.

2 a } Same as Nos. 0 to 2a.  
b }

3 a } Same as Nos. 2b to 5.  
b }

4 a } Light Northerly or North-Easterly winds; smooth sea;  
b } fair or fine.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Milli Inches  
1050—31

1040

1030

1020

1010

1000

990

980

970

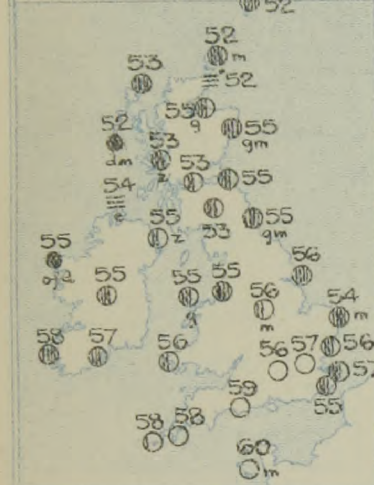


# SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 19<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

Under the influence of the Atlantic anticyclone a fairer type of conditions seems likely to prevail over the country.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE



### EXPLANATION.

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

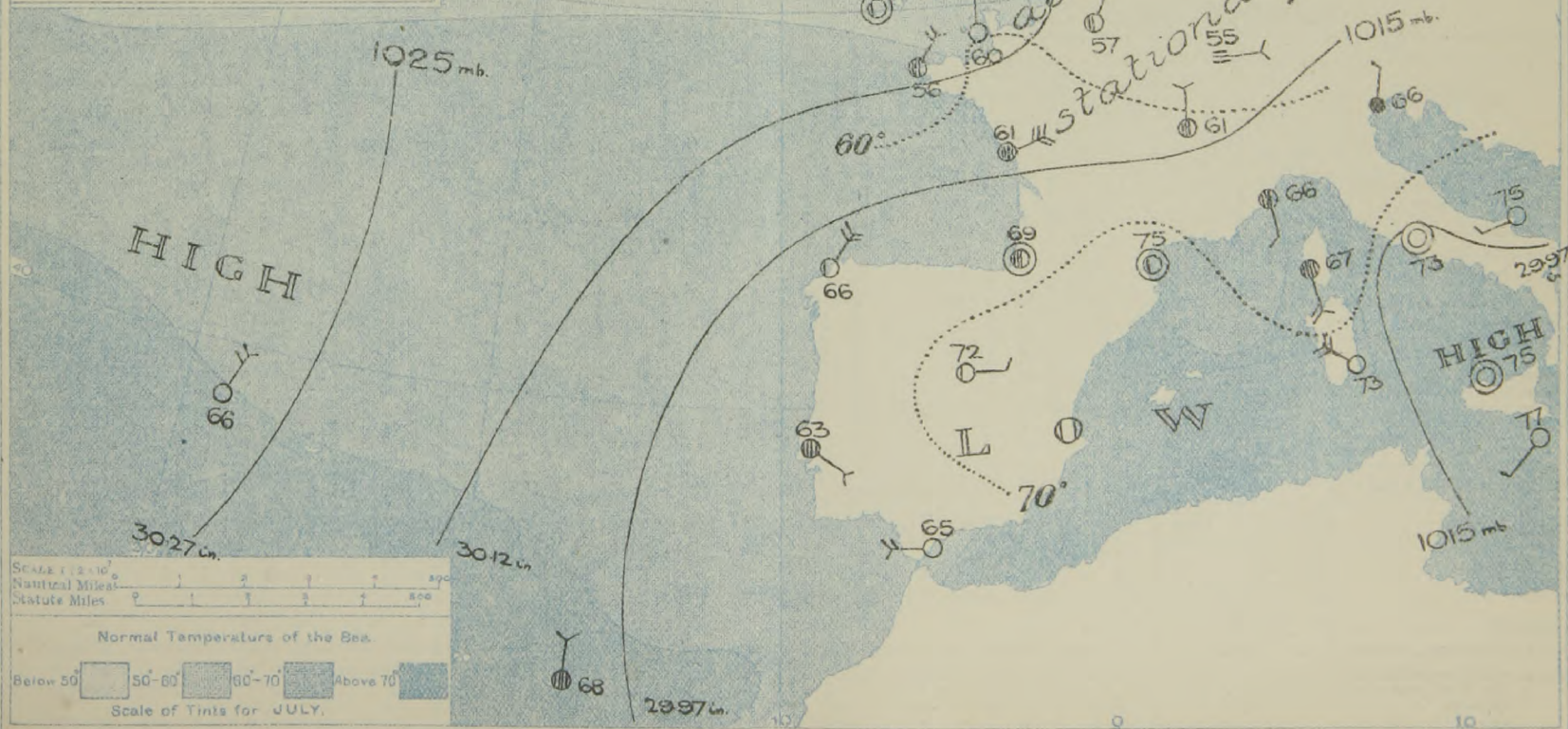
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

**WEATHER.**—Shown by the following symbols:—

○ clear sky ○ sky & cloudy ○ sky & overcast ○ rain falling  
\* snow ▲ hail ≡ fog ≡ mist T thunderstorm

**SEA DISTURBANCE.**—Rough High





REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	17 <sup>th</sup> AT 9 P.M. LOCAL TIME					18 <sup>th</sup> AT 7 A.M. LOCAL TIME.										Rain- fall. -Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
Archangel ...	1014.3	63	W	3	bc	1013.5	0	57	-4	SW	1	*	bc	*	-	*	54		
Gorki ...	1009.6	66	S	2	b	1009.2	0	66	-9	SE	4	*	b	*	-	*	57		
Veliki Luki ...	1013.1	68	-	0	bc	1012.8	*	64	-2	-	0	*	b	*	-	*	55		
Hangö ...	1015.5	59	-	0	o	1014.7	+2	61	+6	-	0	*	bc	*	-	*	52		
Riga ...	1013.1	61	N	1	bc	1011.8	-1	68	+9	-	0	*	b	*	-	*	59		
Petrograd ...	1014.3	70	W	1	b	1014.1	0	72	+2	E	2	-	b	*	-	79	63		
Moscow ...	1012.4	68	ENE	1	b	1014.1	0	64	-2	ENE	1	*	b	*	-	*	57		
Kiev ...	1005.5	66	NE	3	o							*		*		*			
Kharkov ...	1008.0	72	NE	2	o	1006.7	-1	66		E	3	*	bc	*	28	*	52		
Kishinev ...	1002.1	66	SEW	3	o	1002.3	0	63		W	2	*	b	*	1	*	55		
Elisabetgrad ...	1002.9	63	NE	4	b	1003.3	0	63	-1	SE	2	*	b	*	14	*	57		
Nicolaiev ...	1002.6	68	SW	2	o	1002.9	0	66	-6	SW	2	*	b	*	11	*	61		
Odessa ...	1002.6	70	WSW	3	o	1002.6	0	68	-4	SW	3	*	b	*	-	*	63		
Tarkhankout ...	1005.1	72	SW	5	bc	1005.6	*	70	-3	S	5	*	bc	o	-	*	68		
Soukhom ...	1006.9	79	-	0	r	1005.5	-2	79	+4	-	0	*	c	*	1	*	73		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 17 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 <sup>h</sup> .	STATIONS.	Sun- shine for 17 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 <sup>h</sup> .	
		Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.		
Scotland.	{ Oban ...	4.5	-	53	48	or	om	0.0	England, E.	{ Lowestoft ...	0.5	2	-	57	51	bc. c. bc	bc	8.5
	{ Banff ...	6.6	-	58	42	cpr	cpr	0.0		{ Felixstowe ...	0.2	8	-	64	51	o. bc	bc	7.6
	{ Carnoustie ...	1.4	*	57	54	bc. og	a	1.8		{ Walton-on-Naze ...	0.0	-	-	61	52	bc. b	b. bc	7.6
	{ St. Andrews ...	0.7	-	59	44	bc.	bc. c	0.9		{ Southend-on-Sea ...	0.0	1	-	64	52	o. c. bc	bc. c	4.5
Eng. N.E.	{ Harrogate ...	0.0	-	65	44	bc. b	b. bc. c. o	7.2	England, S.E.	{ Margate ...	0.0	2	-	59	54	c. bc. b	b	7.1
	{ Skegness ...	0.0	1	60	48	b.	b. bc	10.8		{ Ramsgate ...	0.2	1	-	58	52	o.	b.	6.7
	Eng. N.W.	{ Morecambe ...	0.2	-	60	53	-	-		3.2	{ Hastings ...	0.0	*	*	64	54	or. bc	bc. b.
{ Blackpool ...									{ Eastbourne ...	0.0	1	-	62	55	o. c.	o. bc	3.4	
{ Southport ...		0.0	0.2	59	52	o. c. bc	c. o	4.3	{ Seaford ...	0.0	*	*	67	55	o	bc	4.6	
Midlands.	{ Buxton ...								England, S.W.	{ Brighton ...								
	{ Leamington Spa ...	0.0	-	65	52	c. bc	bc. c.	6.0		{ Worthing ...	0.7	-	-	68	58	o.	bc. c.	4.2
	{ Malvern ...	0.0	0.2	66	51	z. bc	bcz	9.0		{ Littlehampton ...	1.0	-	-	66	?	o	bc. b	4.3
Wales.	{ Ross-on-Wye ...	0.2	-	69	51	c. bc	bc. m	5.8	{ Bognor ...	1.0	-	-	66	54	o. bc	bc. o	4.7	
	{ Rhyl ...	0.0	-	58	53	o. c. bc	bc. o.	2.7	{ Bournemouth ...	1.9	*	*	67	56	o	o. c. o.	2.4	
	{ Colwyn Bay ...	0.4	*	60	52	c	c	3.0	{ Weymouth ...	5.0	*	*	69	56	c. bc	bc. om	1.9	
Wales.	{ Llandudno ...	4.0	*	58	53	bc. d.	c. o	4.5	{ Torquay ...	9.0	-	-	69	52	bc. b	bc. b	10.4	
	{ Aberystwyth ...	4.0	*	59	45	o. c	c. bc	6.0	{ Paignton ...									
	{ Tenby ...	10.9	-	66	?	bc	bc. c	11.3	{ Penzance ...	4.2	-	-	64	53	bc	bc	11.5	
									{ Newquay ...	4.7	-	-	60	54	bc	b	9.2	
									{ Bude ...	5.7	-	-	63	51	b	b	7.5	
									{ Ilfracombe ...	6.2	*	*	63	51	b	bcz	9.0	
									{ Weston-s-Mare ...	6.2	-	-	68	58	bc. b	b. bc. c	8.0	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1698 Joules.	Average Rate. 294 Milliwatts.	Max. Rate. 80 Milliwatts		
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Hours of Observation G.M.T.						
				Max.	Min.												
24 HOURS ENDED 9 h. TO-DAY																	
Greenwich (Royal Obsy.) ...	%	%	Hr.	° F.	° F.	° F.	mm. §	bc	bc	c. o. o. d. b.			Morning.	Evening.		Morning.	Evening.
City (Runhill Row) ...	*	*	*	*	*	*	*	*	*	*			h.	h.		h.	h.
Westminster (St. James's Pk.)	53	71	6.1	68	54	50	-	bc	bc	bc. o. bc	British Isles ...		7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	46	55	7.1	71	54	54	-	bc. b	bc	*	France ...		7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	67	7.0	65	51	38	-	bc	bc	bc	Norway ...		7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	63	6.1	68	55	49	-	o. c. b	bc. c	o. c. o	Denmark ...		6	17	Azores ...	8	17
Richmond Park ...	*	*	*	*	*	*	*	*	*	*	Holland ...		6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	6.7	*	*	*	*	*	*	*	Italy ...		7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																	
TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.																	
19 <sup>th</sup> & 20 <sup>th</sup> JULY, 1916.																	
Yarmouth ...																	
Greenwich ...																	
Wick ...																	
Valencia ...																	

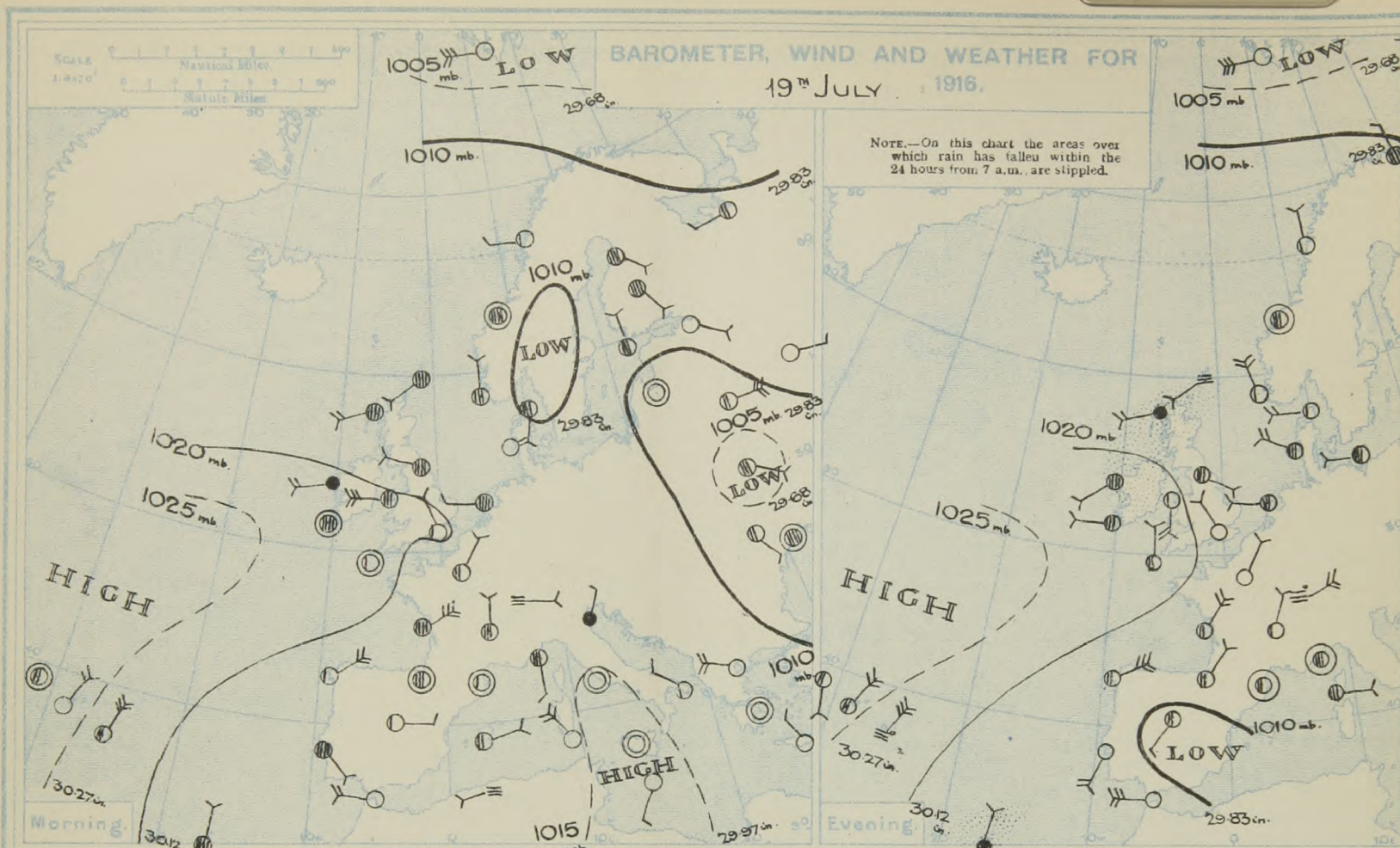
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain;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

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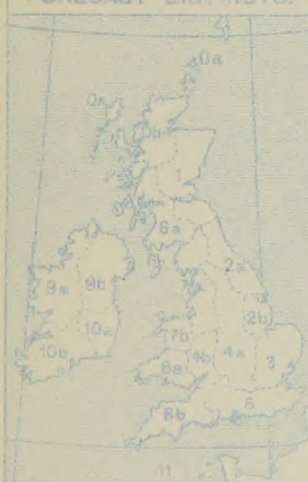
STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day Hours.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	1016.2	53	SW	2	f	1017.5	0	53	+1	SW	2	-	m	1	2	58	51	c	cm f.	cm p.	*	
Deerness (Orkney) ...	1016.9	54	W	3	o	1018.6	*	56	+4	W	3	-	og	1	1	54	51	om f. o	o	op o	0.0.	
Stornoway ...	1016.7	58	WSW	3	op	1019.5	+2	57	+4	NW	2	-	o	2	2	62	53	og	o p	op	0.8	
Castletay (Barra Isd.) ...	1018.7	57	SW	3	om	1021.1	+2	55	+3	-	0	-	fd.	1	4	57	51	d. comp	p. om	om d f	3.2	
Glasgow ...	1018.5	64	W	3	bc	1022.1	+2	58	+5	WSW	2	-	om	*	Trace	65	53.	bc. cz	c. bc.	bc. b. op	10.1	
Esksdalemuir ...	1018.9	62	WNW	3	c	1022.4	+1	52	-1	-	0	-	o	*	-	66	43	c. bc	bc. c	c. bc. b. o	9.9	
Malin Head ...	1020.1	57	WSW	3	fe	1022.2	0	57	+3	W	2	-	om	2	0.2	59	53	fe	fe	om	0.0	
Blackrod Point ...	1022.0	57	SW	2	om	1023.2	+1	56	+1	WSW	2	-	ofe	2	1	59	54	ofe	ofe	om omr	0.0	
Valencia ...	1023.3	62	W	2	c	1024.6	+1	56	-2	-	0	S	bc	3	-	64	51	c. b	b. bc	c. o. c. bc	10.0	
ROCHE'S POINT.																						
Birr Castle ...	1022.9	68.	W	1	bc	1024.8	*	56	-1	NNW	2	-	f	1	0.3	70	55	c	bc	bc. c. of	*	
Donaghadee ...	1022.7	63	W	1	c	1024.6	*	58	+3	WSW	1	-	m	*	Trace	65	53	cm p	cm p	cf	0.3	
Liverpool (Bldston) ...	1020.7	56	NE	2	f	1022.9	+1	59	+4	SW	2	-	og	1	Trace	70	54	*	bc. m. f	cf	*	
Holyhead ...	1021.2	59	S	3	bc	1022.9	+1	57	+2	WNW	1	-	m	2	-	61	55	o. bc	bc. o	o.	4.2	
Pembroke (St. Ann's) ...	1021.9	59	S	3	bc	1023.2	+1	55	0	WSW	3	N	omg	2	-	64	53	c. bc. c. o	o. bc. o	c. bc. o. o	5.5	
Scilly (St. Mary's) ...	1021.9	60	NNW	2	b	1023.7	+1	57	+1	ENE	1	NE	c	1	-	61	54	bc. b	b	b	13.0	
Falmouth ...	1021.8	63	N	2	bc	1024.0	+1	59	+1	N	1	-	bme	2	0.1	66	54	b	bc.	bc. b. om	13.6	
Jersey (St. Aubin) ...	1020.5	66	NW	3	b	1023.5	+1	61	+3	NNE	2	-	b	*	-	69	54	b	b	b. w	14.5	
Portland Bill ...	1020.1	61	W	2	b	1021.0	0	59	0	NW	2	-	b	2	-	64	56	bc	bc. b.	b. bc	*	
Dungeness ...	1019.4	60	S	2	b	1021.3	+2	59	+4	NNE	2	-	b	2	-	63	48	b. bc	bc. b.	bf	*	
Dover ...	*	*	*	*	*	1021.9	+2	61	+4	NW	3	-	m	2	-	65	52	*	b	bf	8.3	
WICK.																						
Wick ...	1017.1	53	S	1	o	1019.1	+2	55	+3	ESE	1	-	m	1	9	58	50	med. og	om	g. p. om	*	
Nairn ...	1017.3	62	-	0	bc	1019.7	*	61	+6	-	0	-	og	1	0.1	67	55	c	bc.	d. c	3.6	
Aberdeen ...	1018.1	57	SE	2	c	1020.0	+1	62	+7	-	0	-	om	1	1	62	54	og. m. o	o. c	c. comp	0.1	
Leith ...	1017.4	68	WNW	2	b	1021.4	+1	59	+4	W	1	-	o	2	-	69	55	c. bc. b	b.	bc. m. d	*	
Tynemouth ...	1018.1	58	SE	2	cm	1021.3	+1	60	+5	W	1	W	bm	2	-	63	55	cm	cm.	bc. m	*	
Spurn Head ...	1019.5	59	ESE	2	bc	1021.4	+1	56	0	NW	2	-	om	2	-	63	50	c	bc.	o	5.4	
YARMOUTH.																						
Yarmouth ...	1019.6	59	SE	1	c	1022.1	+2	60	+6	E	1	-	bm	2	-	63	54	om	cm.	bm. cm	4.6	
Clacton-on-Sea ...	1019.0	62	SSE	3	bc	1021.6	+2	59	+3	NNW	2	-	b	1	-	66	52	c. bc. b	c. bc.	bc. o. b	6.6	
Nottingham ...	1018.8	66	WNW	2	b	1022.6	*	53	-3	WSW	1	-	bm	*	-	68	49	bc	c. b.	b.	9.0	
Benson (Oxon.) ...	1019.2	72	N	1	b	1022.6	+2	53	-3	-	0	-	m	*	-	72	44	b	b	bm	*	
Sth Farnborough ...	1019.6	70	WNW	3	b	1022.1	+1	56	0	NW	2	-	bm	*	-	73	49	bc	b.	bm	10.1	
London (Kew Obs.) ...	1019.2	70	NN	2	b	1022.1	0	56	-1	WSW	1	-	bm	*	-	70	51	b. bc. c	c. bc. b	b. bc. b. m	11.1	
NORTHERN EUROPE.																						
Spitsbergen ...	1004.3	41	W	6	b	1005.3	+1	39	-2	NNW	5	*	o	*	*	43	36	UPPER AIR.				
Vardö ...	1010.7	52	N	1	o	1012.6	0	54	0	-	0	-	o	2	*	54	50	South Farnborough.				
Bodö ...	1015.1	54	N	2	b	1013.9	0	57	-2	N	1	-	c	1	-	59	48	Pilot Balloon Ascent at 6.15 a.m.				
Christiansund ...	1013.7	57	-	0	c	1017.0	0	55	+1	-	0	-	b	2	-	59	52	2,400 metres N 7 metres per second				
Skudesnaes ...	1015.3	57	NNW	4	b	1018.4	+1	59	+5	NNW	3	-	b	1	-	59	48	1,200 " N 5 " "				
Færder (X'ania Fjord) ...	1011.9	63	W	3	b	1014.7	+3	61	+2	NE	1	-	b	2	-	64	48	1,800 " NW by W 5 " "				
The Scaw (Skagen) ...	1016.4	57	NW	3	c	1016.6	0	57	+2	NW	3	-	c	3	Trace	59	52.	1,200 " NW by W 4 " "				
Blaavands Huk ...	1014.0	61	NNW	3	c	1015.4	?	57	+2	NNW	3	-	b	?	?	?	?	900 " NW by W 4 " "				
Copenhagen ...	1014.0	61	NNW	3	c	1015.4	?	57	+2	NNW	3	-	b	?	?	?	?	600 " N 4 " "				
Bornholm ...	1012.6	61	W	2	c	1013.6	0	55	0	NNW	4	N	c	1	-	63	54	300 " WSW 4 " "				
FRANCE, &c.																						
The Helder ...	1018.6	59	WNW	2	c	1020.7	+1	57	+2	NNW	2	-	c	2	-	61	55	Surface NW 2 " "				
C. Gris Nez ...	1025.7	61	SW	2	b	1021.5	+2	60	+5	SW	1	*	m	1	-	64	55					
La Hève ...	1019.7	63	NNW	2	bc	1021.7	*	57	+2	SW	1	*	b	1	-	66	52					
Brest (St. Mathieu) ...	1020.8	66	N	4	b	1022.0	0	61	+5	NE	1	*	b	2	-	72	52					
Rochefort (Ile d'Als) ...	1016.3	73	NE	4	bc	1018.9	0	64	0	NE	4	*	b	*	-	86	57					
Biarritz ...	1013.6	72	NE	2	bc	1016.7	0	70	+1	E	2	*	m	2	-	77	64					
NOTES																						
Paris ...	1019.0	66	NE	2	b	1021.7	+1	59	+2	NE	1	-	b	*	-	70	50	Biarritz Lightning during yesterday. Rouen Thunder 13h 5.16h				
Belfort ...	1017.1	63	ENE	4	m	1021.3	*	55	0	E	4	*	m	*	-	72	54					
Lyon ...	1015.6	73	NNE	2	b	1019.3	*	61	0	NNW	3	*	b	*	-	79	58					
Nice ...	1014.9	64	-	0	c	1013.2	0	70	+4	-	0	*	b	0	-	77	59					
Perpignan ...	1013.2	73	-	0	bc	?	+1	72	-3	?	1	-	b	*	-	84	64					
Sanguinaire ...	*	75	E	2	c	*	0	73	+6	E	2	*	b	2	-	81	61					
SOUTHERN STATIONS.																						
Corunna ...	1012.7	73	NE	5	bc	1015.9	+2	66	0	-	0	-	f	1	?	73	61					
Madrid ...	1007.3	84	SW	1	bc	1016.6	+3	68	-4	-	0	-	b	*	-	83	59					
Lisbon ...	1011.5	72	SSW	3	b	1015.7	+2	64	+1	SSW	1	-	c	2	-	73	63					
Azores ...	1025.6	*	NNE	4	bc	1024.8	0	64	-2	-	0	*	b	0	-	75	64					
Madeira ...	1017.0	68	N	2	r	1018.7	0	66	-2	N	2	-	o	2	Trace	70	66					
Gibraltar ...	1014.5	69	W	5	b	1015.9	*	66	+1	NW	4	*	b	2	-	82	64					
Malta ...	*	*	*	*	*	1018.3	+2	79	+2	W	2	-	b	0	-	82	72					
Limassol ...	*	*	*	*	*	1017.3	-1	84	-2	W	2	-	b	2	-	90	64					
Alexandria ...	1013.6	79	N	3	b	1012.0	0	79	0	NNW	4	-	b	3	-	86	75					
Cairo (Helwan) ...	1011.1	86	NE	4	b	1011.7	+1	77	-4	N	3	-	b	*	-	101	72					
YESTERDAY'S REPORTS																						
18th July, 20 h. G.M.T.																						
Venice ...	1011.3	73	SSE	1	o	1013.3	*	66	0	NNE	1	SW	r	0	Trace	81	64					
Pesaro ...	1012.6	72	E	1	b	1012.0	*	75	+5	SSE	1	SW	o	2	-	81	64					
Rome ...	1013.0	73	-	0	b	1015.4	*	73	+5	-	0	-	b	*	-	84	64					
Viesti ...	1010.0	75	W	2	b	1014.2	*	73	0	W	1	-	b	2	-	81	70					
Brindisi ...	1012.2	75	NW	2	b	1014.0	*	73	0	NW	1	NW	b	3	-	79	66					
Cagliari ...	1012.0	75	SE	3	b	1014.6	*	73	-2	NW	4	N	b	4	-	77	57					
Palermo ...	1012.2	70	-	0	b	1015.9	*	75	0	-	0	-	b	1	-	83	63					
Tripoli ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Algiers ...	1011.4	70	NE	3	f	1011.1	+3	73	+3	WSW	1	-	f	2	-	77	68					
19th July, 7 h. G.M.T.																						
Venice ...	1011.3	73	SSE	1	o	1013.3	*	66	0	NNE	1	SW	r	0	Trace	81	64					
Pesaro ...	1012.6	72	E	1	b	1012.0	*	75	+5	SSE	1	SW	o	2	-	81	64					
Rome ...	1013.0	73	-	0	b	1015.4	*	7														





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No  
Warnings  
Issued.

Western Channel and Bay

0 } Light winds, mainly Westerly; cloudy and misty;  
1 } some showers; cool.

2 }  
3 }  
4 } Light North-Westerly or variable winds; fair to  
5 } fine, with a good deal of mist; normal temperature.

6 } Same as Nos. 0 and 1.  
7 }  
8 } Light winds, chiefly between North-East and North-  
9 } West; fine, some mist; normal temperature.

10 } Light North-Westerly or variable winds; cloudy,  
11 } with a good deal of mist and fog; rather cool.

Light North-Easterly winds; smooth sea; fine.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Millibars  
1050-31

1040

1030

1020

1010

1000

990

980

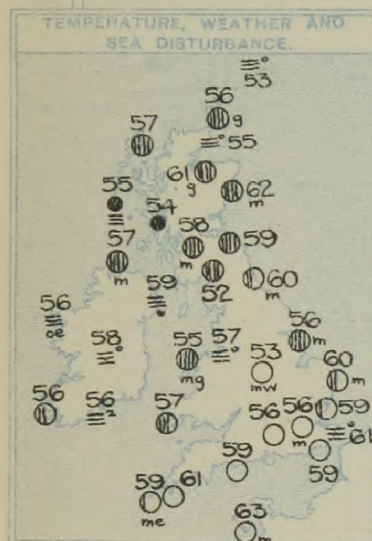
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# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 20<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

Anticyclonic conditions are likely to continue to prevail over the country.



## EXPLANATION.

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

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

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

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 2/3 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. R, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.

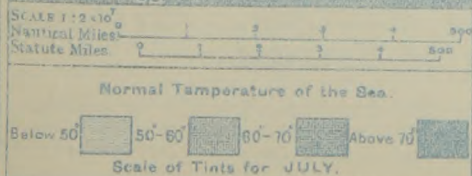
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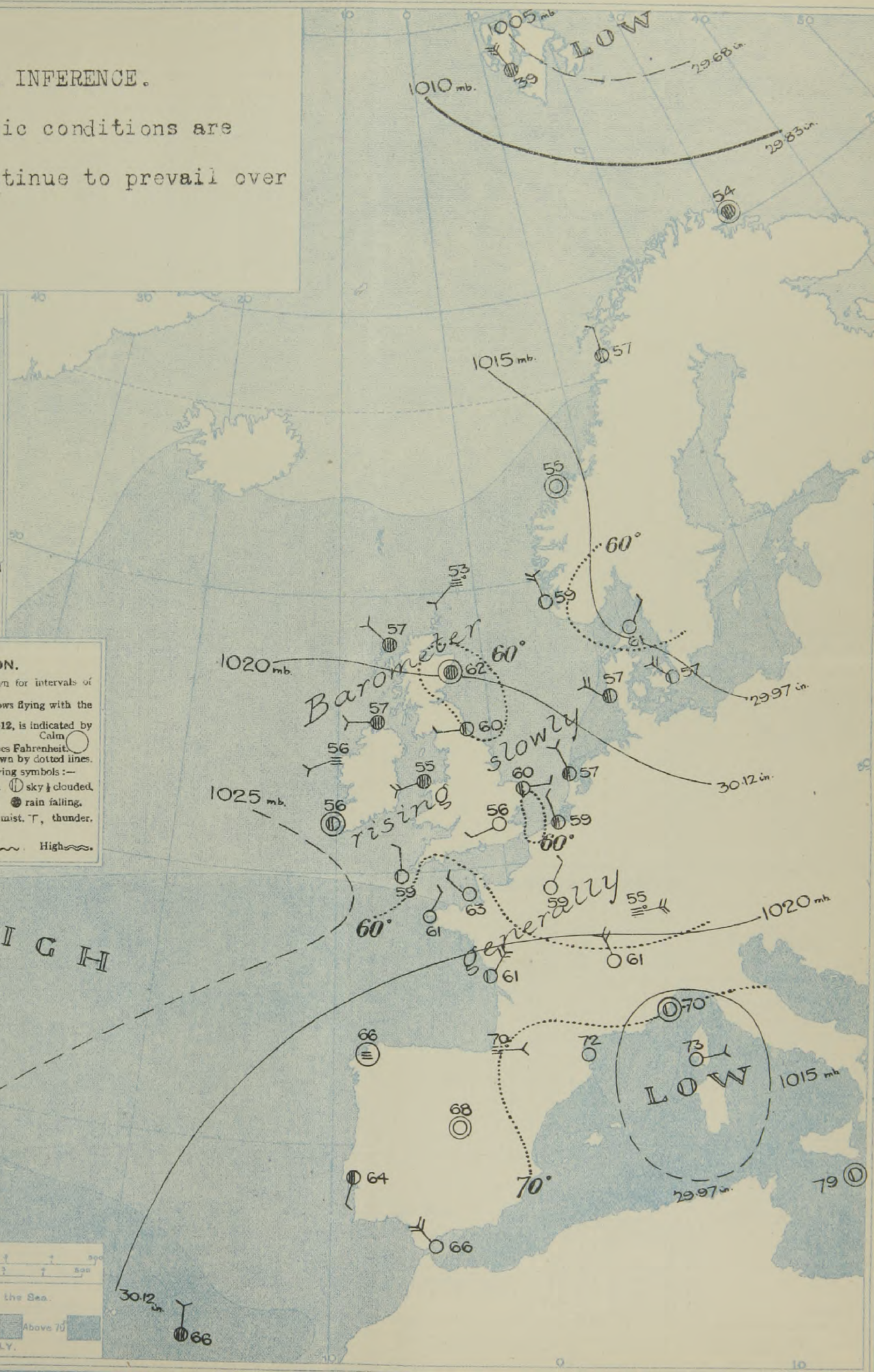
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Director





# REPORTS FROM RUSSIA FOR YESTERDAY.

Archangel ...	1011.1	66	WNW	1	c	1010.4	0	66	+9	W	1	*	*	*	bc	*	*	*	61
Gorki ...	1006.0	68	ESE	3	bc	1003.6	0	64	-2	E	5	*	*	*	bc	*	*	*	57
Veliki Luki ...						1009.9	*	68	+4	-	0	*	*	*	b	*	*	*	55
Hangö ...	1011.4	66	-	0	bc	1016.3	-2	64	+3	N	2	*	*	*	c	*	*	*	55
Riga ...	1009.1	66	-	0	b	1006.4	0	73	+5	-	0	*	*	*	b	*	*	*	63
Petrograd ...	1012.2	73	ENE	2	b	1012.2	0	72	0	SE	2	-	*	*	b	*	*	*	82 64
Moscow ...	1012.7	70	SE	1	b	1014.1	-1	64	0	NNW	1	*	*	*	b	*	*	*	57
Kiev ...	1003.5	64	E	2	bc	1003.4	+1	63	*	SE	2	*	*	*	c	*	*	*	4 57
Kharkov ...	1007.3	66	-	0	c	1006.7	0	64	-2	-	0	*	*	*	o	*	*	*	61
Kishinev ...	1004.8	66	N	2	bc	1006.3	+1	64	+1	SE	1	*	*	*	bc	*	*	*	3 57
Elisabetgrad ...	1004.7	66	S	2	b	1005.3	0	54	-9	SE	2	*	*	*	o	*	*	*	59
Nicolaiev ...	1006.0	68	SSW	3	bc	1005.2	*	68	+2	-	0	*	*	*	o	*	*	*	61
Odessa ...	1005.1	70	SSW	3	c	1005.5	+1	68	0	WNW	2	*	*	*	o	*	*	*	68
Tarkhankout ...	1006.0	72	SW	4	bc	1006.4	*	73	+3	S	3	*	*	*	c	*	*	*	61
Soukhom ...																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
Oban ...	00	1	-	59	51	bc.	bc	63	Lowestoft ...	11.0	03	-	61	51	c.c.	c.o	20
Banff ...	00	2	-	60	53	c	c	00	Felixstowe ...	77	-	-	66	50	bc	bc	36
Carnoustie ...	18	*	*	68	57	bc	bc	66	Walton-on-Naze ...	77	-	-	65	53	bc	bc	48
St. Andrews ...	09	*	*	69	52	bc	bc	51	Southend-on-Sea ...	52	-	-	73	54	bc	bc	75
England, N.E.									England, S.E.								
Harrogate ...	72	-	-	67	51	bc	bc	87	Margate ...	71	-	-	68	53	c. bc	c. bc	57
Skegness ...	109	-	-	65	51	o. bc	bc	63	Ramsgate ...	67	-	-	67	50	bc	bc	83
England, N.W.									Hastings ...	44	*	*	65	50	o. bc	bc	83
Morecambe ...	-	1	-	63	53	-	-	95	Eastbourne ...	46	-	-	66	50	bc	bc	80
Blackpool ...	-	-	-	-	-	-	-	-	Seaford ...	46	-	-	66	48	bc	bc	93
Southport ...	43	-	-	61	55	o. bc	bc	45	Brighton ...	35	-	-	67	50	b. bc	bc	97
Midlands.									Worthing ...	42	-	-	68	50	bc	bc	106
Buxton ...	-	-	-	-	-	-	-	-	Littlehampton ...	46	-	-	66	60	bc	bc	103
Leamington Spa ...	60	-	-	70	49	bc	bc	90	Bognor ...	-	-	-	-	-	-	-	-
Malvern ...	90	-	-	70	51	bc	bc	112	Bournemouth ...	24	*	*	75	51	bc	bc	125
Ross-on-Wye ...	62	-	-	74	45	bc	bc	110	England, S.W.								
Wales.									Weymouth ...	19	*	*	72	53	bc	bc	125
Rhyl ...	27	-	-	61	54	c. bc	bc	48	Torquay ...	104	-	-	73	52	bc	bc	121
Colwyn Bay ...	30	*	*	64	55	c	c	50	Paignton ...	-	-	-	-	-	-	-	-
Llandudno ...	45	*	*	63	55	c	c	47	Penzance ...	130	-	-	68	52	bc	bc	120
Aberystwyth ...	60	*	*	61	56	o. c	c. bc	65	Newquay ...	112	-	-	62	48	bc	bc	117
Tenby ...	116	-	-	69	64	bc	bc	102	Bude ...	87	-	-	64	44	bc	bc	116
									Ilfracombe ...	90	*	*	61	51	bc	bc	102
									Weston-s-Mare ...	80	-	-	66	50	bc	bc	110

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1788 Joules.	Average Rate. 31.1 Milliwatts.	Max. Rate. 86.0 Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.						
				Max.	Min.											
														24 Hours ended 9 h. To-Day		
%	%	Hr.	F.	° F.	° F.	mm.‡				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obs.) ...	47	73	11.2	74	50	40	-	bc	bc	bz						
City (Bunhill Row) ...	*	*	11.6	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	57	75	10.6	72	52	49	-	bc	bc	bom b	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	47	70	10.2	75	52	52	-	bc	b	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	87	10.5	70	50	35	-	bc	bom	b	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	68	11.2	72	53	48	-	c. bc	c. bc	b. bc	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	*	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	11.1	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	-
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
Egypt ... 6 18 Limassol ... 6 -																

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

20 <sup>th</sup> July 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	5.54	11.59	8.42
Greenwich ...	5.8	12.6	8.53
Wick ...	5.39	12.18	8.51
Valencia ...	5.46	12.47	8.49

## NOTES ON YESTERDAY'S WEATHER.

A little rain again fell in the north, but the day was bright over a considerable part of the country. Temperature reached 70° at a few stations. Mist and fog were prevalent in the north of Ireland.

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.



STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.	
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Temp.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Direc.	Force 0-12.	Max.	Min.	Morning.	Afternoon.		Night.
BRITISH ISLANDS.																						
Lerwick ...	1022.2	55	NNW	3	o	1025.7	+1	52	-1	-	0	-	o	0	-	59	49	om	o	o	*	
Deerness (Orkney) ...	1022.7	58	NW	2	m	1025.4	+	53	+3	SSE	1	-	f	0	1	60	51	o	om	m.f	0.5	
Stornoway ...	1022.4	63	NE	1	o	1024.3	0	57	0	SSW	2	-	o	2	1	66	56	o.c	o	op	0.5	
Castlebay (Barra Isd.) ...	1023.8	57	SE	1	fd	1025.0	0	56	+1	SSE	1	-	fr	1	2	59	54	f.o	spd.f	d.f	0.0	
Glasgow ...	1023.4	68	W	2	cy	1025.4	+1	58	0	NW	1	-	fr	1	1	71	57	om.c	cy	c.omp	1.7	
Eskdalemuir ...	1022.9	67	NW	2	o	1025.3	+1	60	+8	N	1	-	o	1	0.2	72	51	o	o.c.o.	o.c.o.	0.7	
Malin Head ...	1024.3	57	WNW	2	f	1025.5	0	56	-1	E	1	-	om	2	0.3	60	55	f	f	om	0.0	
Blacksod Point ...	1024.8	59	SW	2	cy	1024.9	0	57	+1	SW	1	-	bcy	1	-	62	54	om	cy	bc	0.0	
Valencia ...	1024.7	62	W	2	by	1025.4	0	56	0	-	0	W	bcw	2	-	66	51	o.bc	bc.b	bcy.bew	10.9	
Roche's Point ...	1025.0	63	SE	2	o	1025.5	+	59	+3	NW	1	N	bc	1	0.1	67	56	f.bc.c	c.o	o.bc	*	
Birr Castle ...	1023.8	69	W	1	c.	1025.2	+	61	+3	W	1	-	c	1	-	71	57	c	c	c	2.0	
Donaghadee ...	1024.3	57	NE	2	op	1026.0	0	56	-3	NNW	1	-	sf	1	0.2	70	53	of	offd.	of	*	
Liverpool (Bidston) ...	1023.8	61	WNW	2	c	1024.7	0	59	+2	W	1	-	cm	1	-	65	57	alc	bc	cm	1.2	
Holyhead ...	1024.0	64	N	3	b	1025.4	0	58	+3	-	0	-	bm	0	Trace	67	55	o.c.bc	bc.b	b.f.bc	7.8	
Pembroke (St. Ann's) ...	1023.8	67	N	2	b	1024.7	0	63	+6	NE	2	-	b	1	-	70	57	bc	bc.b	b	9.0	
Scilly (St. Mary's) ...	1023.8	64	NNE	1	b	1024.1	0	61	+2	ENE	2	-	bm	2	0.2	66	58	bm	bm	b.bmw	14.1	
Falmouth ...	1023.1	70	NNW	3	b	1024.1	+1	62	+1	NNE	2	-	by	1	-	71	57	b	b	b	14.4	
Jersey (St. Aubin) ...	1021.8	70	N	2	b	1024.4	+	65	+2	E	1	-	bm	0	-	75	59	bm.b	b	bmw	14.3	
Portland Bill ...	1022.4	66	WNW	2	bc	1024.8	+1	62	+3	ENE	2	-	b	1	-	67	57	b	b.bc	b.bcm	*	
Dungeness ...	1021.8	61	ENE	2	bc.	1024.1	+1	61	+2	ENE	1	-	b	1	-	66	51	b.bc	bc	bc.b	*	
Dover ...	*	*	*	*	*	1024.5	+1	61	0	-	0	-	b	2	-	69	50	b.bc	bc.c	c.b	9.8	
Wick ...	1022.7	60	NW	2	c	1025.3	+1	53	-2	S	1	-	f	1	0.3	62	51	f.ong	og.c	mr.f	*	
Nairn ...	1022.7	64	NE	1	cy	1025.2	+	57	-4	-	0	-	om	1	4	68	55	p.cq	bc.g.c	om	1.3	
Aberdeen ...	1023.0	59	-	0	mr	1025.9	+2	59	-3	ENE	2	-	o	1	15	67	57	og.mps	omr	rm.f.o	0.0	
Leith ...	1022.3	69	W	2	c	1025.2	+1	56	-3	NE	1	-	o	1	0.3	71	55	o.c.bcc	c.o.c	cm.d.o	*	
Tynemouth ...	1023.1	62	-	0	omp	1025.1	+1	55	-5	N	2	-	afd	3	13	71	54	bcn	bcn	ofr	*	
Spurn Head ...	1023.1	64	SSE	1	bc	1024.9	0	58	+2	N	3	-	om	2	-	67	56	bcn	bcn	bcn	5.8	
Yarmouth ...	1023.1	60	SE	1	bc	1024.5	0	61	+1	-	0	-	b	1	-	67	54	bcn	bcn	bcn.b	3.0	
Clacton-on-Sea ...	1023.2	66	SSE	1	c	1024.6	+1	60	+1	WNW	1	NW	bc	1	-	66	52	b.bc.cq	cy.c	c.o.c.bc	4.6	
Nottingham ...	1022.6	70	E	1	b	1024.5	+	58	+5	SW	1	SW	om	1	-	73	53	bc.og	cm.b	bm	4.9	
Benson (Oxon.) ...	1021.9	70	NNE	2	m	1024.7	+1	58	+5	-	0	-	m	1	-	73	49	b	om	b.bm	*	
Sth Farnborough ...	1022.0	67	SE	3	bc	1024.2	+1	59	+3	WNW	1	NW	bcw	1	-	74	49	by.bc	bcy	bc.o.by	10.1	
London (Kew Obsy.) ...	1022.4	69	S	3	ox	1024.6	+1	59	+3	SSW	1	-	bmw	1	-	74	55	bm.cq	cy.og	ox.bzmw	7.9	
NORTHERN EUROPE.																						
Spitsbergen ...	1008.0	46	N	1	r	1008.6	+3	41	+2	SW	6	*	o	*	*	43	37	UPPER AIR.				
Vardö ...	1013.6	50	SE	3	o	1016.0	+3	52	-2	NNE	2	-	c	3	*	54	48	South Farnborough.				
Bodö ...	1021.2	54	-	0	o	1015.5	+3	52	-5	SW	4	-	r	2	17	57	50	Pilot Balloon Ascent at 6.15h. G.M.T.				
Christiansund ...	1018.9	55	SW	4	r	1023.0	+2	55	0	W	4	-	o	3	1	59	52	3,000 metres NE 9 metres per sec.				
Skudenes ...	1019.9	59	NNW	3	c	1021.1	0	55	-4	N	4	-	o	1	-	61	59	2,700 - NE 8 -				
Færder (Lamaefjord) ...	1016.3	66	WNW	3	b	1017.5	0	63	+2	SSW	1	-	b	1	-	68	55	2,400 - NE by E 7 -				
The Scaw (Skagen) ...	1019.9	61	NNW	3	c	1019.9	0	57	0	NNW	2	-	o	3	-	63	54	1,800 - NE by E 6 -				
Blaavands Huk ...	1015.4	64	NNW	4	o	1015.7	0	64	+7	NNW	3	-	b	1	-	64	57	1,500 - NE by E 5 -				
Copenhagen ...	1013.1	59	WNW	3	o	1013.6	0	61	+6	N	3	N	m	1	Trace	61	55	1,200 - NE by E 4 -				
Bornholm ...	1013.1	59	WNW	3	o	1013.6	0	61	+6	N	3	N	m	1	Trace	61	55	900 - N by E 3 -				
FRANCE, &c.																						
The Helder ...	1022.7	61	NNW	2	b	1023.8	0	57	0	NNW	1	-	o	0	-	63	55	600 - N by E 3 -				
C. Gris Nez ...	1023.0	60	NE	4	bc	1024.3	+1	60	0	E	1	-	b	1	-	66	52	300 - NW 2 -				
La Hève ...	1020.8	68	NE	2	b	1023.0	+	63	+6	NE	2	-	b	1	-	72	54	Surface NW by W 2 -				
Brest (St. Mathieu) ...	1022.0	70	NE	3	b	1022.9	0	64	+3	NE	2	-	b	1	-	73	54					
Rochefort (Ile d'Alx) ...	1017.7	77	ENE	5	b	1019.3	+1	63	+2	ENE	4	-	b	1	-	88	69					
Biarritz ...	1015.4	72	WSW	2	b	1016.7	+1	68	-2	SW	3	-	b	2	-	75	68					
GALES.																						
Paris ...	1020.6	68	NE	2	b	1022.7	+2	59	0	NE	2	-	b	1	-	75	52	Duration and Extreme Forces in British Islands.				
Belfort ...	1020.3	63	ENE	2	m	1022.0	+	52	-3	E	4	-	m	1	-	70	46					
Lyons ...	1017.2	72	N	3	b	1019.0	+	60	-1	NNE	1	-	b	1	-	77	55					
Nice ...	1016.9	68	E	1	c	1012.4	+2	68	-2	-	0	-	c	0	-	70	64					
Perpignan ...	1012.8	75	SW	1	o	1014.7	+1	73	+1	-	0	-	b	1	-	86	63					
Sanguinaire ...	*	79	N	2	b	*	*	73	0	E	2	-	b	2	-	84	66					
SOUTHERN STATIONS.																						
Corunna ...	1017.3	66	NW	1	clr	1018.7	0	64	-2	ENE	1	-	f	1	4	73	69					
Madrid ...	1012.6	84	-	0	b	1016.0	+1	68	0	SW	1	-	b	1	-	88	61					
Lisbon ...	1016.7	70	SW	4	b	1017.2	0	64	0	W	1	-	b	2	-	73	63					
Azores ...	1024.3	*	SW	2	b	1021.5	0	68	+4	SW	4	-	bc	2	-	79	64					
Madeira ...	1020.2	66	N	1	o	1021.0	0	64	-2	N	1	-	o	1	-	68	64					
Gibraltar ...	1017.6	70	W	4	b	1016.6	+	66	0	NW	5	-	b	2	-	80	65					
Malta ...	*	*	*	*	*	1011.1	-1	84	+5	SSW	1	-	b	0	-	86	75					
Limassol ...	*	*	*	*	*	1003.1	+1	82	-2	-	0	-	b	0	-	91	64					
Alexandria ...	1009.3	79	NNW	5	b	1007.8	0	81	+2	NNW	5	-	b	4	-	84	77					
Cairo (Helwan) ...	1007.8	81	NNW	4	b	1007.7	0	75	-2	N	3	-	b	1	-	91	70					
YESTERDAY'S REPORTS																						
... 19th July, 20 h. G.M.T.																						
Venice ...	1013.3	68	NE	1	thr	1013.4	+	68	+2	-	0	-	o	4	50	79	63					
Pesaro ...	1013.7	77	-	0	c	1013.9	+	75	0	SW	1	SW	c	3	-	86	72					
Rome ...	1016.3	73	SW	1	c	1016.1	+	75	+2	-	0	-	b	0	-	84	68					
Viesti ...	1016.3	73	SE	1	b	1012.6	+	77	+2	-	0	-	b	0	-	84	68					
Brindisi ...	1015.1	75	SE	1	b	1013.9	+	77	+4	-	0	-	b	0	-	77	68					
Cagliari ...	1014.7	77	SE	4	b	1013.2	+	77	+4	NW	4	E	b	4	-	79	td					





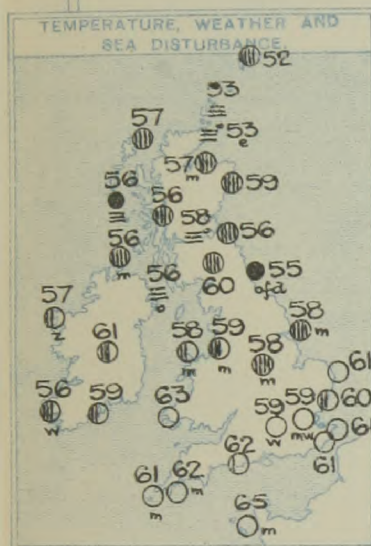


SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 21<sup>ST</sup> JULY, 1916.

GENERAL INFERENCE.

Quiet anticyclonic


conditions will continue.



EXPLANATION.




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

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

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

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

**WEATHER.**—Shown by the following symbols:—

 clear sky.   
  sky  $\frac{1}{2}$  clouded.   
  sky  $\frac{2}{3}$  clouded.  
 sky  $\frac{3}{4}$  clouded.   
  overcast sky   
  rain falling.

\*snow, ▲ hail, ≡ fog, ≡<sup>o</sup> mist, T, thunder.

SEA DISTURBANCE.—Enough  High 

SEA DISTURBANCE:—rough . High .





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	19th. AT 9 P.M. LOCAL TIME					20th. AT 7 A.M. LOCAL TIME.										Rain-fall. -Milli-metres.	Temp.	
	BAROM. Milli-bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli-bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Direc.	Force 0-12.						Direc.	Force 0-12.							
Archangel ...	1011.7	70	SW	1	c	1013.1	+1	66	0	S	2	*	b	*	-	*	63	
Gorki ...	1003.9	64	SE	3	o	1002.4	0	61	-3	ESE	2	*	o	*	1	*	57	
Veliki Luki ...	1007.9	66	-	0	bc	1007.0	*	64	-4	-	0	*	o	*	-	*	61	
Hangö ...	...	...	...	...	...	1011.3	+3	72	+8	ESE	2	*	b	*	-	*	59	
Riga ...	1006.7	68	NNE	1	c	1006.9	+1	70	-3	ENE	1	*	c	*	2	*	55	
Petrograd ...	1011.7	77	ESE	3	c	1012.6	0	73	+1	ESE	2	*	b	*	-	34	66	
Moscow ...	1011.3	65	E	1	b	1009.0	+1	63	-1	NE	3	*	o	*	-	*	59	
Kiev ...	1003.1	64	SW	2	b	1002.3	-1	61	-2	W	4	*	o	*	-	*	55	
Kharkov ...	1003.8	64	E	2	o	1000.0	-2	64	0	SW	1	*	o	*	7	*	64	
Kishinev ...	1009.5	66	NW	2	c	1010.4	0	63	-1	NW	3	*	c	*	3	*	57	
Elisabetgrad ...	1003.5	61+	SW	2	bc	1005.2	0	60	+9	W	3	*	o	*	6	*	57	
Nicolaiev ...	1007.3	68	WSW	2	bc	1007.8	*	63	-5	W	4	*	b	*	-	*	59	
Odessa ...	1007.9	70	NNW	2	bc	1009.7	0	64	-4	NNW	3	*	bc	*	8	*	59	
Tarkhankout ...	1008.6	73	WSW	5	b	1009.7	*	73	0	NW	4	*	bc	*	5	*	70	
Soukhom ...	1008.0	72	ENE	2	o	1012.2	0	72	-	-	0	*	b	*	6	*	64	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY. UP TO 17h.

STATIONS.	Sun- shine for	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
Oban ...	6.5	-	-	59	53	m	o	1.5	Lowestoft ...	3	-	-	65	53	o	c	7.3
Banff ...	0.1	3	3	64	55	c. o	o. c	0.0	Felixstowe ...		-	-	59	54	o	o. o	8.1
Carnoustie ...	6.6	*	*	75	60	c	bc. o	0.8	Walton-on-Naze ...		-	-	70	54	o	o	9.5
St. Andrews ...	6.7	0.2	-	72	50	o	o. c	1.6	Southend-on-Sea ...		-	-	69	53	o	o	9.8
England, E.									England, S.E.								
Harrogate ...	8.8	-	-	74	52	o	bc. c	7.2	Margate ...	6.7	-	-	65	53	o	c	7.3
Skegness ...	8.0	-	-	66	53	c. bc	bc. m	9.2	Ramsgate ...	9.8	-	-	59	54	o	o. o	8.1
England, S.E.									Hastings ...	8.3	-	-	70	54	o	o	9.5
Morecambe ...	12.0	-	-	65	55	-	-	4.5	Eastbourne ...	10.1	-	-	69	53	o	o	9.8
Blackpool ...	...	-	-	...	...	...	...	...	Seaford ...	11.2	-	-	71	51	b	b	10.8
Southport ...	6.0	-	-	63	56	c. o	c. o. c	2.3	Brighton ...	11.9	-	-	69	52	b	b	11.4
England, W.									Worthing ...	...	-	-	...	...	...	...	...
Buxton ...	12.2	-	-	71	48	m. c.	c. bc	4.0	Littlehampton ...	12.3	-	-	69	50	o. b	o	10.5
Leamington Spa ...	12.2	-	-	72	51	bc	bc. c	9.0	Bognor ...	...	-	-	66	52	b	bc. bc	11.4
Malvern ...	...	-	-	...	...	...	...	...	Bournemouth ...	12.5	*	*	77	53	o	o	12.5
Ross-on-Wye ...	13.1	-	-	76	46	bc. b	bc. c	6.6	Weymouth ...	12.5	*	*	79	56	o	o	12.0
Wales.									Torquay ...	14.6	-	-	72	55	o	o	12.2
Rhyl ...	6.5	-	-	64	56	o. c	c	0.1	Paignton ...	...	-	-	73	51	b	b	14.1
Colwyn Bay ...	5.0	*	*	64	58	c. bc	bc	0.0	Penzance ...	14.0	-	-	72	56	o	bc. b	11.8
Llandudno ...	4.7	*	*	68	57	-	-	1.3	Newquay ...	13.7	-	-	65	53	o	o	...
Aberystwyth ...	6.5	*	*	64	57	o. c. b	bc. o	6.0	Bude ...	...	-	-	71	46	o	o	10.3
Tenby ...	?	-	-	?	?	o	o	?	Ilfracombe ...	10.2	*	*	66	50	o	o	11.2
									Weston-s-Mare ...	12.3	-	-	79	49	c. bc. b	o	7.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Average Rate.		Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Total 1458 Joules.	25.4 Milliwatts.	56. Milliwatts.			
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY																
%	%	Hr.	F.	° F.	° F.	mm.	\$				Morning.	Evening.		Morning.	Evening.	
Greenwich (Royal Obsy.) ...	60	66	9.9	74	52	43	-	b	b	b bc o z						
City (Bunhill Row) ...	*	*	9.0	74	54	52	-	bc	bc	bc m						
Westminster (St. James's Pk.)	58	79	7.7	74	54	52	-	bc	bc	bc o						
Camden Sq. (Brit. Rainfall)	49	65	8.3	78	53	?	-	b bc	bc o	*						
Hampstead (Reservoir) ...	*	68	10.4	72	56	38	-	c	bc	o						
S. Kensington (Museum Grounds)	*	75	7.6	73	57	54	-	b bz	bc c	c bc bz						
Richmond Park ...	*	*	11.1	*	*	*	*	*	*	*						
Kew. (See front page.)	*	*	7.9	*	*	*	*	*	*	*						
(Greenwich and Camden Square air temperatures are in Glatsher screens.)																

Hours of Observation G.M.T.																
	Morning.		Evening.			Morning.		Evening.								
	h.		h.			h.		h.								
British Isles ...	7		18		Corunna ...	7		16								
France ...	7		18		Madrid ...	8		16								
Norway ...	7		18		Lisbon ...	7		21								
Denmark ...	6		18		Azores ...	8		17								
Holland ...	6		17		Madeira ...	7		21								
Italy ...	7		20		Malta ...	8		-								
Egypt ...	6		18		Limassol ...	6		-								

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

	21st & 22nd July, 1916.		
	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	3.56 3.58	11.59 11.59	8.0 8.0
Greenwich ...	4.9 4.10	12.6 12.6	8.3 8.3
Wick ...	4.43 4.43	12.6 12.6	8.55 8.55
Valencia ...	4.47 4.48	12.47 12.47	8.44 8.44

## NOTES ON YESTERDAY'S WEATHER.

Rather heavy rain fell at Aberdeen and Tynemouth, little elsewhere. There was a good deal of sunshine on the south coast, but little over the rest of the country. Temperature rose above 70° at a good many stations. Mist and fog were prevalent.

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

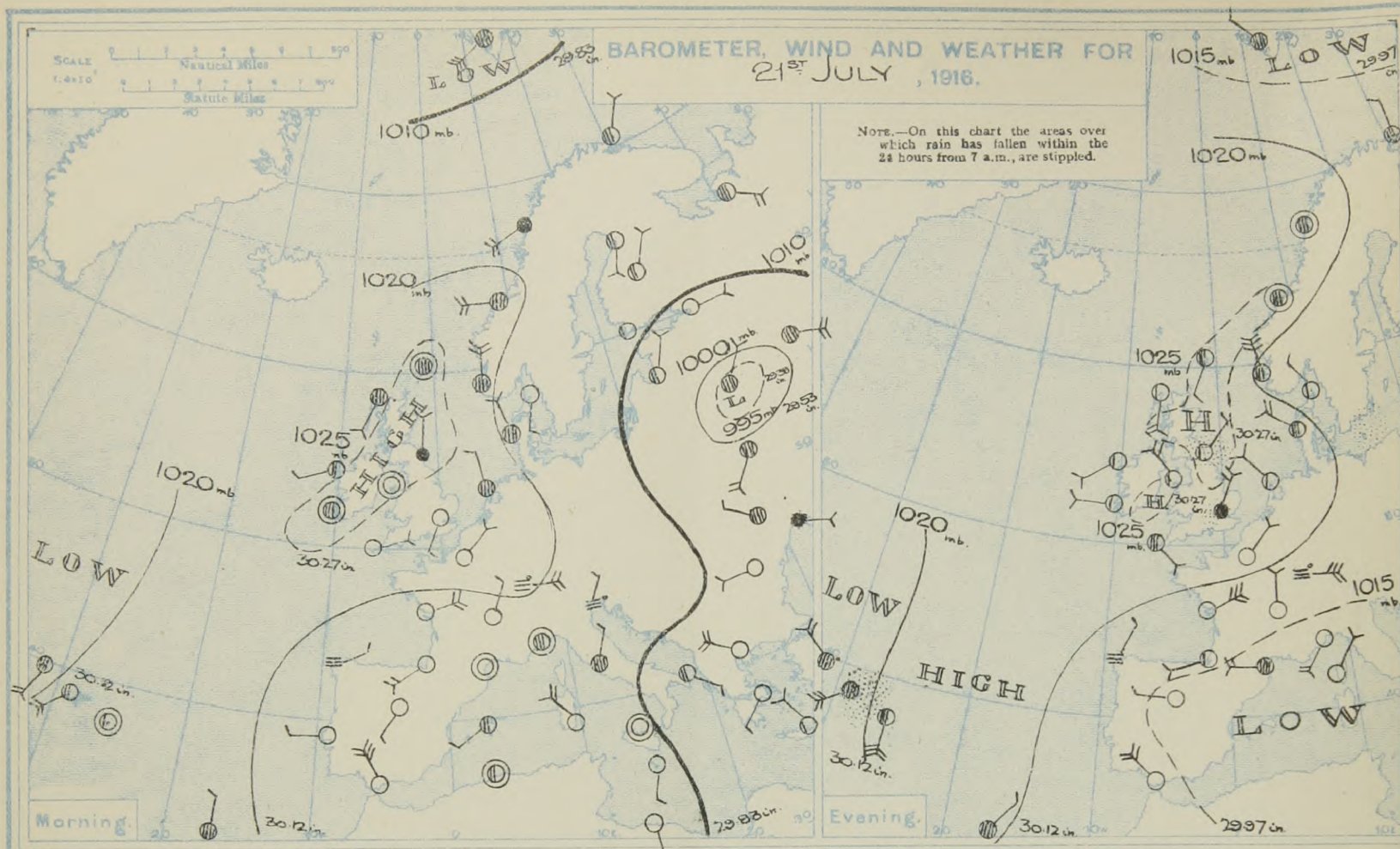
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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 204. { Saturday, 22nd July.

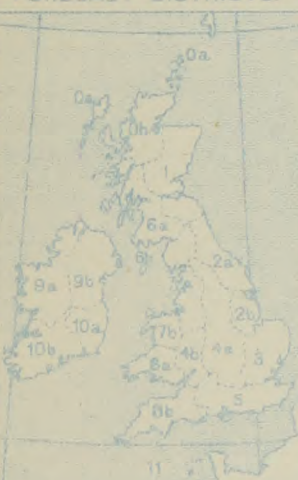
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.								
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9	Rain- fall, Milli- metres.	TEMP.		WEATHER.											
			Dirce.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dirce.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.									
BRITISH ISLANDS.																													
Lerwick ...	10260	53	SSW	1	c	10258	0	52	0	S	1	.	f	1	.	60	51	c.	bc	f	.								
Deerness (Orkney) ...	10257	57	SSW	2	bc.	10247	*	55	12	S	3	.	bw	1	.	58	51	f.ac.	c.bc	bc.b	33.								
Stornoway ...	10244	64	S	3	b	10239	0	59	12	S	2	.	b	2	.	66	54	abc	bc.b	b	84.								
Castletay (Barra Is.) ...	10258	60	SW	3	bc.	10248	0	57	11	E	1	.	om	2	Trace	61	53	f.ac.	o.bc.	bc.b	88.								
Glasgow ...	10250	66	ENE	2	cz	10258	0	58	0	NE	1	.	omg	*	.	73	54	magz	o.c.bc.	bc.b	21.								
Esksdalemuir ...	10249	68	SW	1	o	10253	0	62	12	.	0	.	bcw	*	6	70	58	o.oz	bc.b	bc.b	17.								
Malin Head ...	10250	60	E	2	b	10243	-1	63	17	S	1	.	bm	1	.	63	56	bc.	bc.	bc.	90.								
Blacksod Point ...	10247	61	SW	2	bz	10247	0	57	0	WSW	3	SW	me	1	.	65	56	bz	bz	bc.	.								
Valencia ...	10246	65	W	2	b	10244	+1	59	13	.	0	NW	bcw	3	.	68	63	bc.b	b	b.b.	13.7.								
ROCHE'S POINT.																													
Roches Point ...	10253	66	E	1	b	10252	*	60	11	NW	1	N	bc	1	0.1	67	57	bc.	bc.b	bc.b.	.								
Birr Castle ...	10231	76	NW	1	c	10243	*	66	15	.	0	.	c	*	.	78	60	c	c	c	50.								
Donaghadee ...	10248	65	.	0	bcz	10256	+1	57	11	SE	2	.	fe	1	.	65	56	bcz	bcz	bc.b.	.								
Liverpool (Bidston) ...	10247	62	NW	1	o	10252	0	60	11	SE	1	.	b	1	.	67	57	om	bc.	bc.	52.								
Holyhead ...	10250	63	NW	3	bv	10247	0	60	12	S	2	.	bm	1	.	65	55	bc.c.bc	bc.b	b.b.	11.1.								
Pembroke (St. Ann's) ...	10238	68	N	3	bc	10242	0	62	-1	E	2	E	cz	1	.	71	61	b.bc	bc.	o.c.	105.								
SCILLY ISLANDS.																													
Scilly (St. Mary's) ...	10241	66	SE	2	cm.	10240	0	63	12	ENE	1	N	bc.	2	.	70	57	bm	b.bc.	b.bc.	12.0.								
Falmouth ...	10238	66	SE	1	bz.	10238	+1	62	0	NE	1	NE	bc	*	.	68	57	b.	bc.	b.bc.	10.6.								
Jersey (St. Aubin) ...	10221	70	NE	4	b	10227	*	63	-2	ENE	3	.	b	2	.	73	58	bm	b.	bc.b	14.1.								
Portland Bill ...	10236	63	NW	1	b	10235	0	60	-2	ENE	2	.	o	2	0.4	67	58	b	b.	b.bc.	.								
Dungeness ...	10230	63	ENE	1	b	10230	0	58	-3	ENE	3	.	o	2	.	64	56	bc	bc	bc.	.								
Dover ...	*	*	*	*	*	10241	+1	56	-5	NE	3	NE	od	2	.	67	55	*	*	bc.c.bc	11.6.								
WICK.																													
Wick ...	10258	54	S	1	o	10243	0	54	11	SSE	2	.	b	1	.	56	50	fe.bc.	bc.	bc.	.								
Nairn ...	10249	60	NNE	2	c	10246	*	56	-1	.	0	.	me	1	.	68	50	bc	bc.c	bc.b.	5.7.								
Aberdeen ...	10260	61	ESE	1	b	10253	0	55	-4	SE	1	.	m	1	.	69	52	o.bc.	m.bc.	bc.b.	6.8.								
Leith ...	10254	59	E	2	c	10260	0	54	-2	E	1	.	m	1	.	62	52	o.c.bc	b.	c.	.								
Tynemouth ...	10264	60	NE	1	b	10262	0	54	-1	ENE	1	.	ofcl	3	.	62	52	om	bm	fa.	.								
Spurn Head ...	10259	58	ENE	2	or	10257	-1	55	-3	N	4	.	o	3	5	61	52	omr	or	om	0.0.								
YARMOUTH.																													
Yarmouth ...	10248	62	NE	2	c	10248	0	55	-6	N	3	.	c	2	.	69	54	b.bc.	bc.	c.c.	6.9.								
Clacton-on-Sea ...	10236	63	SE	1	c	10246	+1	55	-5	NNW	2	NE	o	2	.	67	54	bc.c	c.bc.c	c.c.	7.7.								
Nottingham ...	10250	63	E	2	c	10254	*	56	-2	E	1	E	ome	*	.	71	56	o.c.	c.o.	bc.b	9.5.								
Benson (Oxon.) ...	10230	69	NE	3	c	10250	+1	57	-1	NNE	2	.	o	*	1	77	57	b	bc	r.o	.								
St. Farnborough ...	10225	73	NE	3	bc.	10238	0	61	12	NE	2	.	om	*	2	77	59	b.bc	bc.c.bc	bc.c.	7.9.								
London (Kew Obs.) ...	10234	71	NNE	3	omg.	10247	+1	59	0	NNE	2	.	om	*	5	75	58	bmw.	ozom	om	4.3.								
NORTHERN EUROPE.																													
Spitsbergen ...	10104	39	NNW	1	o	10109	0	39	-2	SE	4	*	o	*	*	143	37	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 11.15 a.m. 21st July. 1500 metres NE by E. 7 m.p.s. 1500 " " " " " 1200 " NE 2 " 900 " NE by N 2 " 600 " " 3 " 300 " " 5 " Surface " 2 "											
Vardö ...	10183	50	N	1	o	10208	+2	50	-2	NW	2	.	r	3	*	154	48												
Bodö ...	10223	55	.	0	c	10238	0	57	+5	.	0	.	c	0	.	57	50												
Christiansund ...	10257	55	.	0	c	10246	0	53	0	NE	2	.	c	2	.	57	52												
Skudesnaes ...	10195	59	NNW	6	b	10211	0	59	14	N	4	.	b	2	.	59	48												
Færder (Xtania Fjord) ...																													
The Scaw (Skagen) ...	10177	70	NW	1	b	10199	+1	64	11	NE	3	.	b	3	.	72	59												
Blaavands Huk ...	10215	59	NW	3	c	10204	0	57	0	W	1	.	o	1	.	63	55												
Copenhagen ...	10164	72	NNW	4	b	10184	+2	64	0	NW	2	.	bc	*	.	73	61												
Bornholm ...	10153	70	W	1	m	10183	+1	61	0	E	3	N	bc	1	7	73	59												
FRANCE, &c.																													
The Helder ...	10233	63	NW	2	b	10230	0	55	-2	NW	1	.	o	0	.	64	55	GALES. Duration and Extreme Force in British Islands.											
C. Gris Nez ...	10230	61	NNE	2	b	10219	0	57	-3	ENE	4	*	f	2	.	61	55												
La Hève ...	10221	68	NE	3	b	10207	*	62	-1	NE	1	*	b	1	.	75	55												
Brest (St. Mathieu) ...	10217	75	NE	4	b	10227	+1	66	12	E	3	*	b	1	.	84	55												
Rochefort (Ile d'Als) ...	10168	77	ENE	5	b	10184	0	64	11	NE	5	*	bc	*	.	88	59												
Biarritz ...	10160	70	WSW	2	b	10164	0	68	0	SW	3	*	m	2	.	79	66												
Paris ...	10208	70	NE	2	b	10212	0	61	12	NE	2	.	b	*	.	75	52												
Belfort ...	10197	65	E	5	m	10204	*	51	-1	E	4	*	m	*	.	68	48												
Lyons ...	10168	70	N	2	b	10184	*	59	-1	.	0	*	b	*	.	75	55												
Nice ...	10130	72	SW	3	b	10159	+2	73	15	.	0	*	bc	1	.	92	64												
Perpignan ...	10135	73	W	3	o	10160	+1	72	-1	.	0	*	b	*	.	88	63												
Sanguinaire ...	*	61	NNE	2	b	*	*	57	-16	ENE	4	*	f	2	.	73	65												
SOUTHERN STATIONS.																													
Corunna ...	10172	70	NNE	1	f	10173	+1	64	0	NNE	1	.	m	*	.	70	59	GALES. Duration and Extreme Force in British Islands.											
Madrid ...	10118	84	W	1	b	10149	+1	70	12	.	0	.	b	*	.	88	59												
Lisbon ...																													
Azores ...	10194	*	SW	5	o	10179	+1	66	-2	.	0	*	b	1	5	79	66												
Madeira ...	10202	70	NNE	1	o	10207	0	66	12	NE	2	.	o	2	.	72	66												
Gibraltar ...	10162	70	NNW	4	b	10162	*	66	0	NW	3	*	b	3	.	80	65												
Malta ...	*	*	*	*	*	10141	12	79	-5	NW	1	.	b	1	.	92	73												
Limassol ...	*	*	*	*	*	10038	12	84	12	W	2	.	b	2	.	94	66												
Alexandria ...	10075	79	NW	4	b	10083	0	81	0	NW	4	.	b	3	.	88	79												
Cairo (Helwan) ...	10066	82	NNW	3	b	10079	0	75	0	NW	3	.	b	*	.	94	79												
YESTERDAY'S REPORTS																													
.....20 h. G.M.T.																													
Venice ...	10127	72	NE	1	o	10153	*	64	-4	NNE	1	.	m	4	2	75	63							GALES. Duration and Extreme Force in British Islands.					
Pesaro ...	10124	75	.	0	c	10148	*	68	-7	NE	4	.	o	*	.	79	68												
Rome ...	10132	75	SW	1	b	10111	*	73	-2	NE	1	.	o	3	.	86	68												
Viesti ...	10126	75	.	0	b	10080	*	77	0	S	2	.	c	2	32	79	61												
Brindisi ...	10121	77	.	0	b	10096	*	77	0	SE	1	SE	bc	2	.	81	70												
Cagliari ...	10114	82	S	8	b.	10133	*	77	0	NW	3	.	b	3	.	82	61												
Palermo ...	10144	75	.	0	b	10104	*	79	0	.	0	.	b	1	.	88	66												
Tripoli ...	10135	83	.	0	b	10108	*	90	14	S	1	.	b	0	.	90	77												
Algiers ...	10147	75	NNW	1	c	10164	0	73	-4	.	0	.	bc	1	.	88	72												
.....21st..... 7 h. G.M.T.																													
Venice ...	10127	72	NE	1	o	10153	*	64	-4	NNE	1	.	m	4	2	75	63	GALES. Duration and Extreme Force in British Islands.											
Pesaro ...	10124	75	.	0	c	10148	*	68	-7	NE	4	.	o	*	.	79	68												
Rome ...	10132	75	SW	1	b	10111	*	73	-2	NE	1	.	o	3	.	86	68												
Viesti ...	10126	75	.	0	b	10080	*	77	0	S	2	.	c	2	32	79	61												
Brindisi ...	10121	77	.	0	b	10096	*	77	0	SE	1	SE	bc	2	.	81	70												
Cagliari ...	10114	82	S	8	b.	10133	*	77	0	NW	3	.	b	3	.	82	61												
Palermo ...	10144	75	.	0	b	10104	*	79	0	.	0	.	b	1	.	88	66												
Tripoli ...	10135	83	.	0	b	10108	*	90	14	S	1	.	b	0	.	90	77												
Algiers ...	10147	75	NNW	1	c	10164	0	73	-4	.	0	.	bc	1	.	88	72												





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

Western Channel and Bay 11

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

0 } Light winds, indefinite in direction; variable sky, some mist and fog; cool.

1 } Light winds, mainly Northerly or North-Easterly; fair to dull, perhaps thunder, some mist; rather cool.  
2 } Light indefinite winds; fair to dull, perhaps thunder; some mist; rather cool.

3 } Same as No. 3.

4 } Same as Nos. 0 to 2.

5 } Light Easterly winds; fair weather, perhaps thunder; normal temperature.

6 } Same as Nos. 0 to 2.

7 } Light indefinite winds; fair weather; normal temperature.

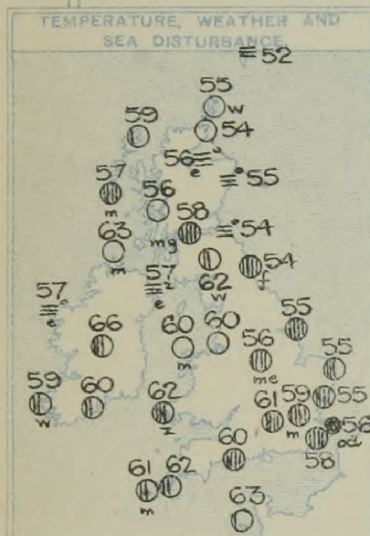
8 } Light or moderate North-Easterly winds; slight sea; fair to fine.



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 22<sup>ND</sup> JULY, 1916.

## GENERAL INFERENCE.

Under the influence of the Atlantic anticyclone light winds are likely to continue over the whole of the country.



## EXPLANATION.

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

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

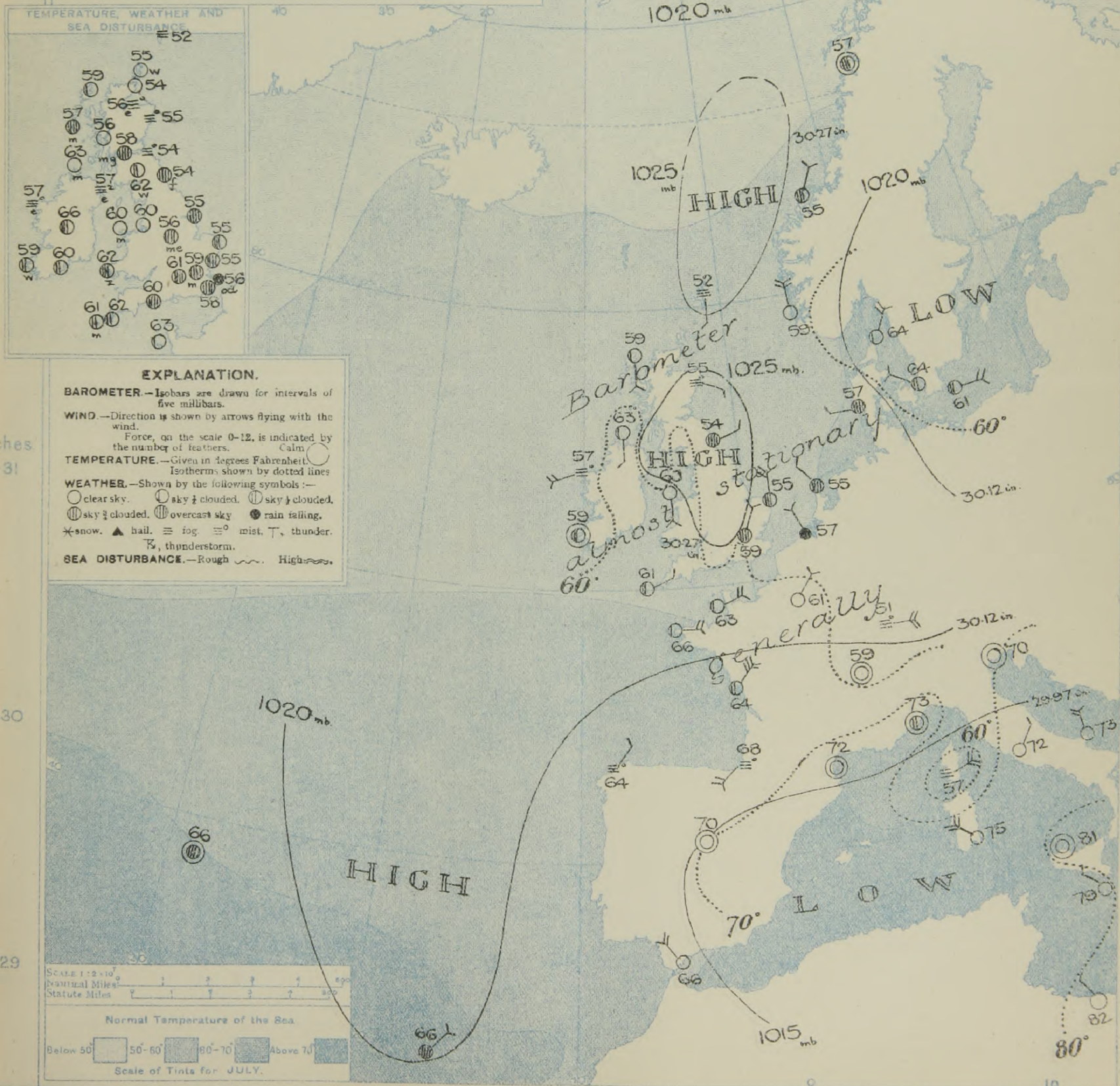
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 1/2 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~. High ~~~.





REPORTS  FROM RUSSIA  FOR  YESTERDAY.	STATIONS.	.....AT 9 P.M. LOCAL TIME.					.....AT 7 A.M. LOCAL TIME.										Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.						Direc.	Force 0-12.							
																			F.
	Archangel ...	1013.2	72	NW	2	0	1011.3	0	63	-3	SE	3	*	C	*	7	*	63	
	Gorki ...	998.6	61	E	4	0	994.4	-1	61	0	NE	2	*	0	*	20	*	59.	
	Veliki Luki ...	-	-	-	-	-	1090.4	*	64	0	N	4	*	0	*	3	*	61.	
	Hangö ...	1011.3	70	-	0	bc	1011.5	+1	68	-4	NE	7	*	b	*	-	*	61.	
	Riga ...	1006.9	68	-	0	b	1006.9	-1	72	+2	NNE	2	*	bc	*	1	*	64.	
	Petrograd ...	1010.7	73	NE	3	b	1002.7	+1	72	-1	ESE	2	-	b	*	-	82	66.	
	Moscow ...	1002.4	63	NE	4	r	1002.1	+1	63	0	ESE	4	*	0	*	5	*	63.	
	Kiev ...	1003.0	59	W	4	r	1001.9	0	59	-2	SW	3	*	0	*	-	*	55	
	Kharkov ...	1003.3	64	SW	2	b	1005.5	+2	61	-3	SSE	2	*	b	*	-	*	61.	
	Kishinev ...	1009.5	64	NW	3	b	1008.7	+1	57	-6	NW	1	*	0	*	8	*	55.	
	Elisabetgrad ...	1006.1	64	SW	2	b	1006.0	0	59	-4	W	2	*	0	*	-	*	52	
	Nicolaiev ...	1008.8	68	W	2	b	1006.3	*	61	-2	SE	2	*	r	*	2	*	59	
	Odessa ...	1009.0	70	WSW	2	C	1005.2	+3	66	+2	S	2	*	0	*	9	*	63	
	Tarkhankout ...	1010.6	72	W	3	b	1008.3	?	68	-5	SW	4	*	r	*	3	*	64.	
	Soukhoum ...	1011.0	70	NNE	2	b	1009.1	0	72	0	NNE	2	*	b	*	-	*	63.	

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

STATIONS.	Sun- shine for 20 <sup>h</sup> .	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.	STATIONS.	Sun- shine for 20 <sup>h</sup> .	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.
		Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.	Oban ...	15	-	66	54	0	bc	75	Lowestoft ...	5.3	-	-	67	52	bc	bc	7.9
	Banff ...	03	-	68	65	bc	bc	4.2	Felixstowe ...	-	-	-	67	52	bc	bc	7.9
	Carnoustie ...	2.9	-	63	55	d.f.	fe.	2.1	Walton-on-Naze ...	-	-	-	73	55	bc	bc	6.0
	St. Andrews ...	2.6	0.2	64	54	0	b	2.3	Southend-on-Sea ...	5.5	-	-	73	55	bc	bc	6.0
Eng. N.E.	Harrogate ...	7.6	-	70	60	r.o.p.	bc	1.7	Margate ...	7.3	-	-	71	54	b	b	9.4
	Skegness ...	11.0	-	64	55	m.o.	r.o.p.	0.1	Ramsgate ...	8.1	-	-	61	53	b.o	b	10.0
									Hastings ...	9.5	*	*	68	54	bc	b	10.8
									Eastbourne ...	12.2	*	*	67	52	b	b	11.2
									Seaford ...	10.8	-	-	69	52	b	b	11.4
Eng. N.W.	Morecambe ...	5.1	-	70	58	-	-	3.2	Brighton ...	12.1	-	-	66	54	c	c	9.6
	Blackpool ...	-	-	-	-	-	-	-	Worthing ...	11.2	-	-	69	55	b	b	12.1
	Southport ...	2.9	-	68	58	c.c	c.c	3.5	Littlehampton ...	10.5	-	-	70	55	b	b	11.5
Midlands.	Buxton ...	-	-	67	50	bc	bc	6.0	Bognor ...	-	-	-	-	-	-	-	-
	Leamington Spa ...	4.8	-	74	53	m.o.c	c.o.r	1.6	Bournemouth ...	12.5	*	*	73	56	b	b	11.5
	Malvern ...	-	-	-	-	-	-	-	Weymouth ...	12.0	*	*	74	57	z.b	z.b	12.4
	Ross-on-Wye ...	6.6	-	79	54	bc	bc	6.3	Torquay ...	-	-	-	74	54	b	b	13.8
Wales.	Rhyl ...	0.6	-	67	56	bc	bc	6.3	Paignton ...	14.1	-	-	74	54	b	b	13.8
	Colwyn Bay ...	0.0	-	69	59	bc	bc	7.5	Penzance ...	13.8	-	-	70	58	bc	bc	8.5
	Llandudno ...	1.3	-	69	57	b	b	8.5	Newquay ...	13.2	-	-	71	50	b	b	7.4
	Aberystwyth ...	6.0	-	68	56	bc	bc	10.0	Bude ...	12.3	-	-	72	52	bc	bc	8.1
	Tenby ...	-	-	76	57	bc	b	11.9	Ilfracombe ...	11.2	-	-	69	55	z.b	z.b	9.0
									Weston-s-Mare ...	9.2	-	-	74	56	m.b	z.b	9.0

LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yesterday.	TEMPERATURE.		Rain- fall.	WEATHER.		
	15 h. Yester- day.	9 h. To-day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.		24 HOURS ENDED 9 h. TO-DAY		
				°F.	°F.		°F.	°F.	°F.
Greenwich (Royal Obsy.) ...	58	98	2.0	77	56	5	61	61	61
City (Bunhill Row) ...	*	*	1.6	*	*	*	*	*	*
Westminster (St. James's Pk.) ...	63	90	1.6	76	58	60	60	60	60
Camden Sq. (Brit. Rainfall) ...	55	85	3.0	78	68	60	60	60	60
Hampstead (Reservoir) ...	*	93	3.8	74	54	4.9	60	60	60
S. Kensington (Museum Grounds) ...	*	86	1.1	75	58	5.8	60	60	60
Richmond Park ...	*	*	*	*	*	*	*	*	*
Kew. (See front page.) ...	*	*	4.3	*	*	*	*	*	*

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

22 <sup>nd</sup> 23 <sup>rd</sup> July 1916.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.58	11.59	8.39
Greenwich ...	5.12	12.6	8.0
Wick ...	5.43	12.18	8.53
Valencia ...	5.48	12.47	8.46

NOTES ON YESTERDAY'S WEATHER.

Slight rain fell at a few isolated stations, but the day was fair over the country generally, with sunshine measurements up to about 14 hours at Jersey and Valencia. Temperature rose to 78° at Birr Castle. Mist was still prevalent.

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

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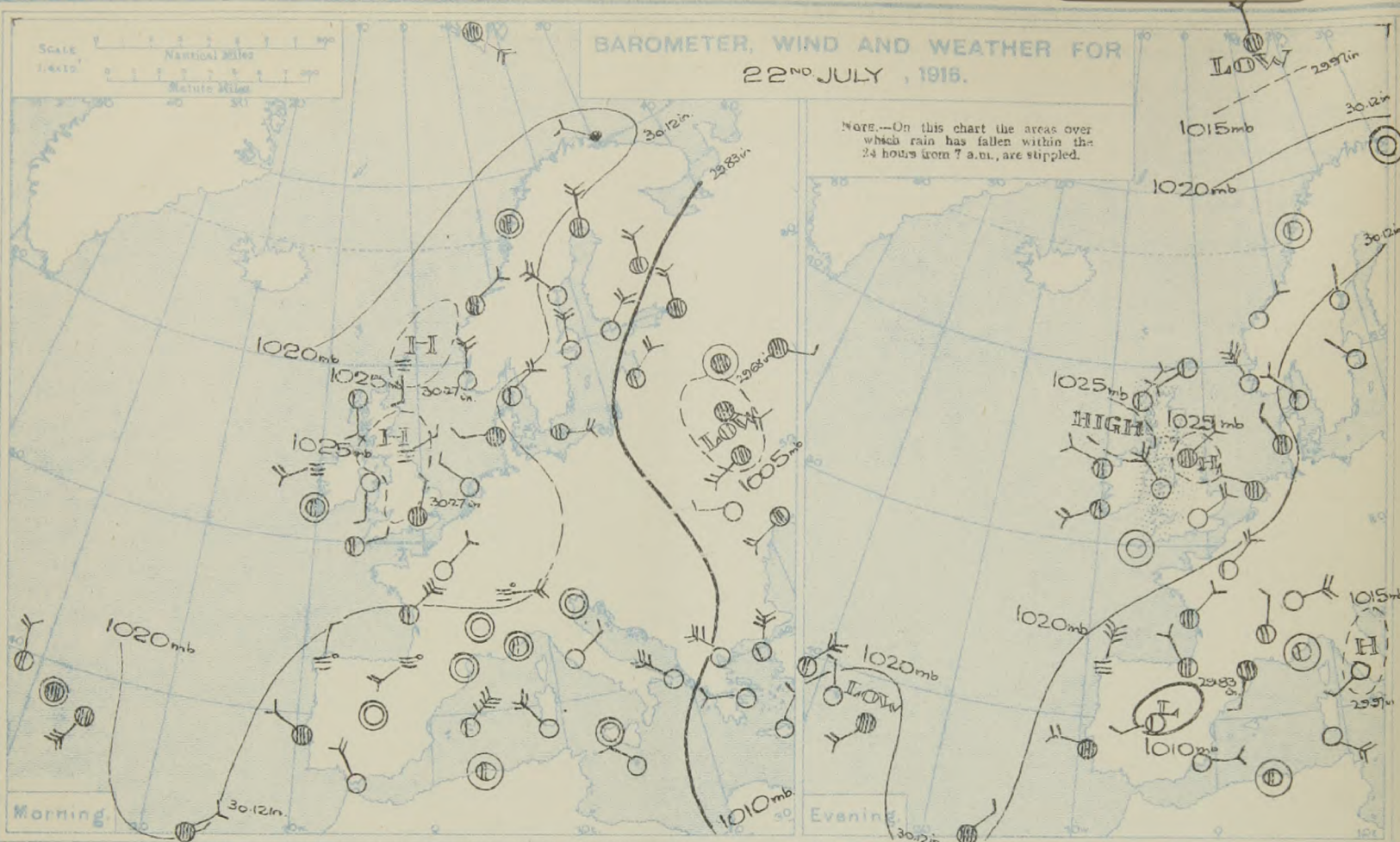


## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No.

Sunday  
23rd July

STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																					
Lerwick ...	1024.6	60	SW	2	b	1025.1	0	52	0	1	0	f	0	-	60	49	f.b.c	b	f	*	
Deerness (Orkney) ...	1024.0	57	S	2	b	1024.7	*	53	-2	2	2	f	1	-	59	50	b.b.c	b.c.b.	b.b.c.f	14.0	
Stornoway ...	1023.8	62	NE	2	b	1024.9	0	57	-2	1	0	g	0	-	72	55	b	b	b.m.c.g	12.7	
Castlebay (Barraisd.) ...	1024.8	58	SW	2	om	1025.8	0	58	+1	1	0	o	1	1	63	55	om.b.c.f	of om	om.c.o	8.7	
Glasgow ...	1023.0	75	W	2	b.c.g	1025.1	+1	57	-1	E	1	by	*	-	79	53	o.c.b.g	b.c.b.g	b.c.b.g	10.0	
Eskdalemuir ...	1023.3	71	WNW	1	c	1024.4	0	64	+2	1	0	bw	*	2	75	52	b.c.g.op	c.b.c.	c.b.c.b	4.0	
Malin Head ...	1025.5	62	N	2	b.c	1025.1	0	54	-1	E	1	fe	1	-	70	53	b.c	b.g	fe	12.4	
Blacksod Point ...	1024.8	63	WNW	2	bc	1025.4	0	60	+3	1	0	bc	1	-	63	55	bc	bc	bc	*	
Valencia ...	1024.2	65	WSW	3	b.c.g	1024.6	0	60	+1	1	0	b.c.s.g	2	-	68	55	bc.b.g	bc.b.g	b.b.c.b.c	14.0	
SCOTLAND.																					
Roche's Point ...	1024.3	67	E	1	b.g	1024.9	*	61	+1	NNW	1	m	1	0.1	69	59	b.g	b.g	b.g.w	*	
Birr Castle ...	1022.1	79	E	1	c	1024.6	*	60	-6	E	1	f	*	1	80	60	c	c	epf	9.3	
Donaghadee ...	1024.1	69	SE	2	m	1024.8	+1	56	-1	WNW	2	b.g	2	Trace	70	55	b.f	b.c.f	b.c.f.b.d	*	
Liverpool (Bidston) ...	1023.2	68	NW	1	b	1024.3	0	60	0	1	0	c	1	-	74	53	b	b.m	om	11.6	
Holyhead ...	1023.4	63	NW	4	b.g	1023.9	0	59	-1	1	0	bm	0	-	69	57	bm	bm	bm	13.0	
Pembroke (St. Ann's) ...	1023.8	65	NW	1	bc	1024.0	0	61	-1	1	0	b	0	-	68	59	c.g	o.c.b.c	b	5.0	
ENGLAND.																					
Scilly (St. Mary's) ...	1024.0	66	-	0	b	1024.5	+1	59	-4	NNE	1	fe	2	0.1	74	56	bm	bm	fe	11.0	
Falmouth ...	1023.4	68	ESE	1	m	1023.2	0	62	0	N	2	by	*	-	72	57	b	b.g	b.g	8.8	
Jersey (St. Aubin) ...	1022.0	69	ENE	2	b	1022.7	*	60	-3	ENE	3	NE	2	-	75	55	b	b	bc	11.2	
Portland Bill ...	1023.1	63	WNW	1	bc	1023.3	+1	57	-3	ENE	2	bc	2	-	67	54	o.c	c.b.c	bc.b.f	*	
Dungeness ...	1022.0	69	ENE	4	bc	1022.5	0	50	-2	NE	4	om	3	-	64	54	o	o.b.c	bc.c.o	*	
Dover ...	*	*	*	*	*	1022.8	+1	54	-2	NNE	1	N	0	4	-	64	52	d.o.c	c.b.c	c.o.e	2.7
W. COAST OF ENGLAND.																					
Wick ...	1024.1	56	ESE	2	b	1024.4	+1	54	0	NW	1	f	1	-	58	50	b.g.b.c.m	b.c.m	b.c.m.f	*	
Nairn ...	1023.2	64	NE	1	b.g	1024.1	*	61	+5	W	1	bc	1	-	75	54	b	b.g	bc.m	11.6	
Aberdeen ...	1024.5	59	SE	2	b	1024.9	0	60	+5	1	0	b	2	-	68	50	m.b.c.b	b	bmw	10.8	
Leith ...	1023.6	61	E	2	b	1024.9	0	53	-1	E	1	m	1	-	64	52	m.b.c.b	b	b.b.c.m	*	
Tynemouth ...	1025.3	54	NE	2	om	1025.4	0	52	-2	1	0	f	2	-	57	50	f	f	f	*	
Spurn Head ...	1025.3	55	E	4	cr	1024.9	0	52	-3	NE	4	o	3	-	61	50	o.c	o.c	o	0.6	
E. COAST OF ENGLAND.																					
Yarmouth ...	1023.8	56	NE	3	o	1023.2	0	53	-2	NE	3	md	3	-	58	52	c.o	o	o	0.0	
Clacton-on-Sea ...	1023.3	59	ENE	4	bc	1023.3	0	52	-2	NNW	3	N	2	-	64	52	og.c	c.b.c	bc.c.o	5.8	
Nottingham ...	1023.8	69	E	2	b	1024.9	*	51	-5	NE	2	NE	4	-	71	49	om.c.b	b	b	8.2	
Benson (Oxon.) ...	1022.6	70	NNE	2	b	1024.4	0	51	-6	NE	3	o	*	-	72	47	o	b	b.c	*	
St. Farnborough ...	1022.2	69	N	2	b	?	+1	56	-5	NE	2	o	*	-	70	46	o.c	b	b.o	6.6	
London (New Obsy.) ...	1022.8	67	NE	3	b	1024.3	+1	52	-1	NE	2	o	*	-	68	49	om.c.b.c	bc.b	b.o	7.4	
NORTHERN EUROPE.																					
Spitsbergen ...	1012.3	37	N	2	o	1010.4	-2	39	0	1	0	o	*	*	41	36					
Vardö ...	1021.0	50	1	0	o	1020.0	0	52	+2	NNW	1	o	3	-	54	48					
Bodö ...	1024.3	57	1	0	b	1023.7	0	57	0	E	1	b	1	-	59	48					
Christiansund ...	1023.0	61	NE	2	b	1023.1	0	55	0	1	0	b	1	-	63	52					
Skudesnaes ...	1021.0	57	NNW	6	b	1022.0	+3	54	-4	N	4	f	2	-	59	50					
Færder (X'iania Fjord) ...	1019.7	66	NW	2	b	1021.0	0	56	+2	NNE	1	b	1	-	70	59					
The Scaw (Skagen) ...	1020.7	63	NNW	1	c	1020.6	0	59	+2	NNE	1	f	2	-	63	55					
Blaavands Huk ...	1018.1	68	W	2	b	1018.3	0	63	-1	NNE	3	b	*	-	72	61					
Copenhagen ...	1018.0	63	WSW	3	c	1016.6	+1	61	0	NNE	3	m	1	-	66	55					
Bornholm ...	1018.0	63	WSW	3	c	1016.6	+1	61	0	NNE	3	m	1	-	66	55					
FRANCE, & C.																					
The Helder ...	1022.1	57	WNW	2	c	1021.5	0	57	+2	NNW	1	o	0	Trace	59	55					
C. Gris Nez ...	1022.9	57	NE	4	bc	1022.0	0	55	-2	NE	3	r	3	1	68	54					
La Hève ...	1021.3	63	NE	2	b	1021.6	*	57	-5	NE	3	o	2	-	75	52					
Brest (St. Mathieu) ...	1022.0	75	N	2	bc	1023.4	0	63	-3	NE	1	bc	1	-	79	55					
Roche fort (Ile d'Aix) ...	1016.4	76	NE	3	c	1018.3	+2	63	-1	NE	4	b	*	-	90	75					
Biarritz ...	1015.9	72	NW	2	c	1017.9	+2	67	-1	SW	3	o	2	-	75	64					
Paris ...	1019.5	68	NNE	3	b	1020.0	+1	55	-6	NNE	2	o	*	Trace	77	55					
Belfort ...	1017.1	71	E	4	b	1018.4	*	59	+8	E	2	m	*	-	74	55					
Lyons ...	1015.8	74	NNE	1	b	1017.0	*	65	+6	1	0	b	*	-	79	59					
Nice ...	1015.4	71	1	0	b	1015.5	0	73	0	SW	2	bc	0	-	82	64					
Perpignan ...	1014.3	71	S	1	o	1016.7	+2	75	+3	1	0	b	*	Trace	84	64					
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
SOUTHERN STATIONS.																					
Corunna ...	1016.7	68	NNE	6	m	1019.7	+2	64	0	1	0	m	1	-	72	57					
Madrid ...	1009.6	84	N	1	b	1015.1	+2	70	0	ENE	1	b	*	-	88	66					
Lisbon ...	1016.8	70	WNW	3	o	1015.8	0	66	+2	NW	2	o	5	-	75	64					
Azores ...	1018.0	*	N	1	b	1019.5	+2	65	-1	N	3	b	2	1	77	64					
Madeira ...	1020.2	70	NE	1	o	1019.7	+1	65	+2	NNE	1	o	1	-	70	68					
Gibraltar ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Malta ...	*	*	*	*	*	1017.0	+3	77	-2	ENE	2	b	1	-	88	72					
Limassol ...	*	*	*	*	*	1004.6	+2	82	-2	W	1	b	2	-	91	63					
Alexandria ...	1007.5	79	NNW	3	b	1008.7	0	81	0	NW	3	NW	2	-	88	77					
Cairo (Helwan) ...	1007.0	88	N	3	b	1008.2	+2	77	+2	N	2	b	*	-	97	70					
YESTERDAY'S REPORTS																					
21st July, 20 h. a.m.t.																					
Venice ...	1013.7	72	1	0	b	1013.9	*	70	+6	1	0	b	2	-	75	64					
Pesaro ...	1015.6	68	1	0	b	1016.6	*	68	0	SW	1	b	2	-	75	57					
Rome ...	1012.0	75	N	2	b	1014.9	*	72	-1	NE	1	b	*	-	83	63					
Viesti ...	1009.0	75	NW	5	b	1012.3	*	72	-4	N	3	b	4	-	77	64					
Brindisi ...	1010.7	77	NW	4	b	1012.2	*	72	-5	NW	5	b	5	-	86	70					
Cagliari ...	1011.3	84	NW	5	b	1013.2	*	75	-2	NW	4	b	3	-	84	59					
Palermo ...	1012.6	77	1	0	b	1014.2	*	81	+2	1	0	b	1	-	99	64					
Tripoli ...	1010.6	81	1	0	b	1012.0	*	82	-8	NNW	1	b	1	-							





### FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No  
Warnings  
Issued.

Western Channel and Bay 11

0 } Light winds of indefinite direction; variable sky, some mist and fog; rather cool.

1 }  
2 } Light winds, mainly North-Easterly; dull, some improvement later, some mist; rather cool, then becoming normal.  
3 }  
4 }  
5 }

6 } Same as Nos. 0 to 2a.  
7 }  
8 }

9 } Light winds of indefinite direction; fair or fine, some mist or fog; normal temperature.  
10 }

11 } Light North-Easterly winds; smooth sea; fair or fine, some mist or fog.

#### FURTHER OUTLOOK.

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

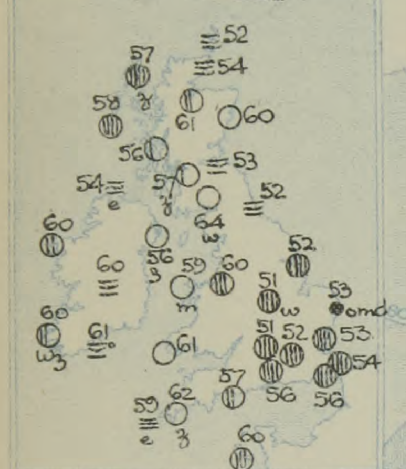
NAPIER SHAW, Director



GENERAL INFERENCE.

Quiet conditions will  
continue to prevail.

TEMPERATURE, WEATHER AND  
SEA DISTURBANCE.



EXPLANATION.

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

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

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

WEATHER.—Shown by the following symbols:—

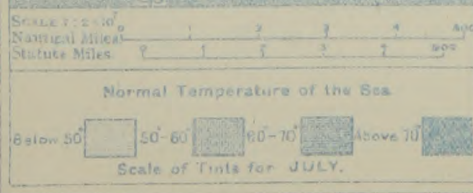
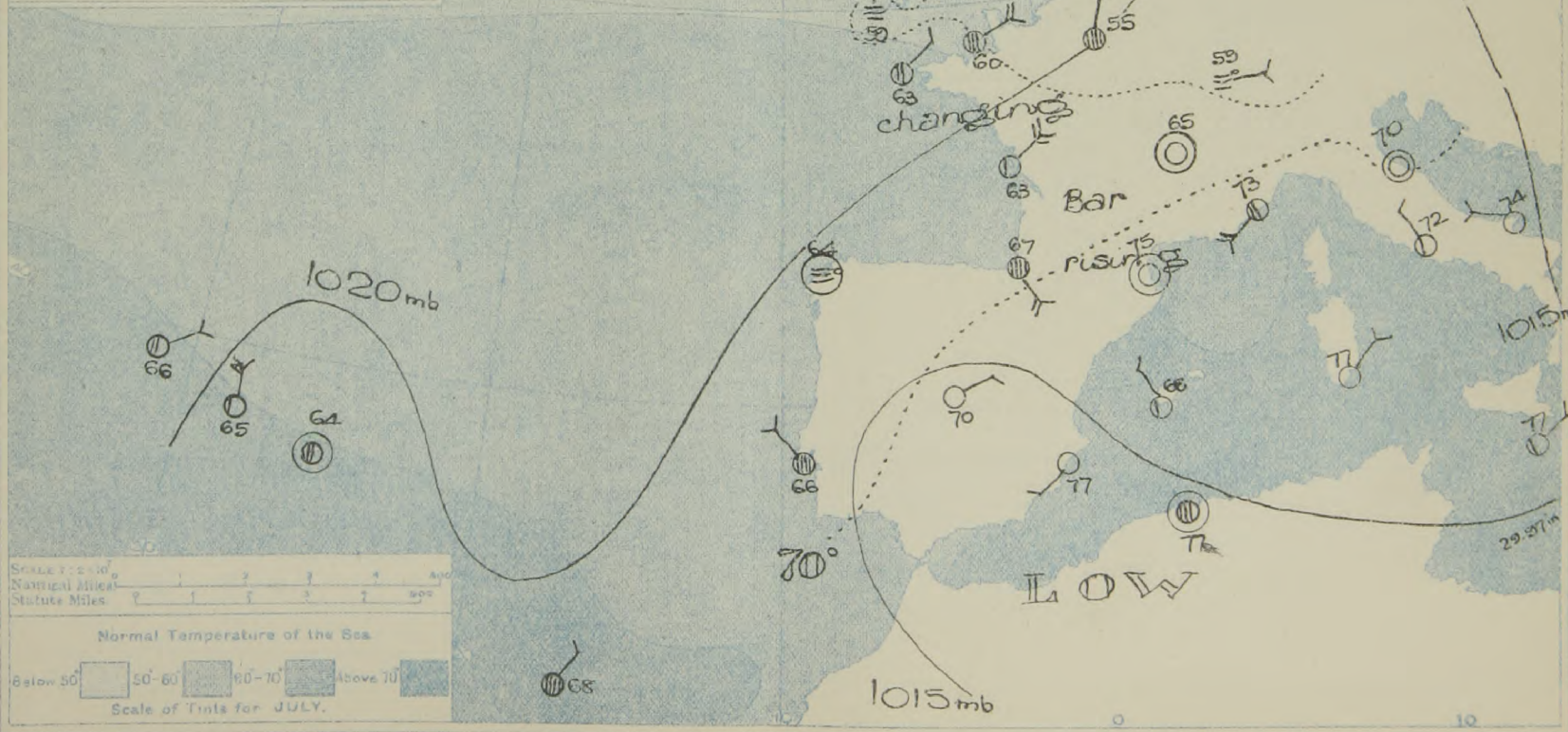
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

○ sky 1/2 clouded. ○ overcast sky. ○ rain falling.

✕ snow. ⚡ hail. ☁ fog. ☁ mist. ⚡ thunder.

⚡ thunderstorm.

SEA DISTURBANCE.—Rough. High.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	... 21 <sup>st</sup> ... AT 9 P.M. LOCAL TIME					... 22 <sup>nd</sup> AT 7 A.M. LOCAL TIME								Weather.	Sea 0-9.	Rain-fall, Millimetres.	TEMP.			
Barom. Millibars at M.S.L.	Temp. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.					Max.	Min.		
		Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	Direc.	Force 0-12.										
Archangel ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Gorki ...	9973	63	SE	4	0	10010	+2	63	+2	SE	3	*	0	*	17	*	59			
Veliki Luki ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Hangö ...	10110	70	NNW	3	bc	10122	+1	61	-7	NNE	4	*	0	*	...	...	57			
Riga ...	10063	70	NNE	1	bc	10073	0	68	-4	NNE	3	*	0	*	...	...	64			
Petrograd ...	10070	73	NE	3	0	10066	0	70	-2	?	1	*	0	*	...	81	66			
Moscow ...	10059	64	S	2	bc	10064	0	61	-2	SE	1	*	0	*	...	...	37			
Kiev ...	10026	61	SW	2	0	10017	0	59	0	SW	3	*	0	*	...	...	57			
Kharkov ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kishinev ...	10074	63	S	2	b	10063	0	61	-4	NW	1	*	0	*	...	...	55			
Elisabetgrad ...	10057	62	S	2	0	10055	-1	63	-4	S	2	*	0	*	...	...	54			
Nicolaiev ...	10073	64	WSW	3	c	10060	*	63	+2	SE	3	*	0	*	...	...	57			
Odessa ...	10078	64	SW	2	b	10061	-1	66	0	SE	2	*	0	*	...	...	63			
Tarkhankout ...	10059	59	W	1	r	10070	+2	59	-9	S	2	*	0	*	...	10	53			
Soukhom ...	10095	66	-	0	b	10079	?	70	-2	SE	3	*	0	*	...	...	55			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun-shine for 21 <sup>st</sup>	Rainfall		TEMPERATURE		WEATHER		Sun-shine to 17 h.	STATIONS.	Sun-shine for 21 <sup>st</sup>	Rainfall		TEMPERATURE		WEATHER		Sun-shine to 17 h.
		Night, 12h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night, 17h-9h.	Day, 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Min.	Max.	°F.	°F.						Min.	Max.	°F.	°F.			
Scotland, (Oban ...)	97	-	-	70	48	b	b	105	England, E. (Lowestoft ...)	79	01	-	63	53	od bc	bc	51
Banff ...	67	-	-	73	52	bc	bc	78	Felixstowe ...	76	Trace	-	62	54	o.c. bc	bc	52
Carnoustie ...	21	*	*	60	52	of	b	64	Walton-on-Naze ...	60	02	-	68	55	o.c. bc	bc	57
St. Andrews ...	...	...	...	...	...	...	...	...	Southend-on-Sea ...	...	...	...	...	...	...	...	...
Eng. N.E. (Harrogate ...)	17	04	-	71	54	o.c. bc	b	76	Margate ...	101	-	-	61	56	c	c	04
Skegness ...	01	3	-	57	53	o.c. bc	o	27	Ramsgate ...	109	-	-	60	55	o	o	03
Eng. N.W. (Morecambe ...)	...	...	...	...	...	...	...	...	Hastings ...	108	-	-	66	58	o	bc	37
Blackpool ...	...	...	...	...	...	...	...	...	Eastbourne ...	135	-	-	66	59	b	b	40
Southport ...	45	-	-	72	56	b o	bc	87	Seaford ...	128	*	*	70	58	r.c	b	39
Midlands. (Buxton ...)	01	-	-	73	53	bc	bc	70	Brighton ...	...	...	...	...	...	...	...	...
Leamington Spa ...	16	3	-	72	56	o.c.	bc	63	Worthing ...	129	1	-	69	60	o.c	bc	35
Malvern ...	...	...	...	...	...	...	...	...	Littlehampton ...	130	-	-	70	59	o	bc	42
Ross-on-Wye ...	65	1	-	73	57	bc	b	64	Bognor ...	...	...	...	...	...	...	...	...
Wales. (Rhyl ...)	...	...	...	...	...	...	...	...	Bournemouth ...	115	*	*	73	58	z	z	35
Colwyn Bay ...	...	...	...	...	...	...	...	...	Weymouth ...	...	...	...	...	...	...	...	...
Llandudno ...	...	...	...	...	...	...	...	...	Torquay ...	...	...	...	...	...	...	...	...
Aberystwyth ...	100	-	-	74	60	c-b	bc	110	Paignton ...	...	...	...	...	...	...	...	...
Tenby ...	121	-	-	73	63	z-b	bc	32	Penzance ...	98	-	-	73	56	bc	bc	70
									Newquay ...	...	...	...	...	...	...	...	...
									Bude ...	81	-	-	71	54	b	b	62
									Ilfracombe ...	...	...	...	...	...	...	...	...
									Weston-s-Mare ...	...	...	...	...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY		Sun-shine for Yesterday.	TEMPERATURE		Rain-fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.				Hours of Observation G.M.T.			
	15 h. Yesterday.	9 h. To-day.		In Screen.	Min. on Grass.		Fore-noon.	After-noon.	Night.	Total.				Morning.			
	%	%		Max.	Min.					1456 Joules.				255 Milliwatts.			
Greenwich (Royal Obs.) ...	60	92	75	70	49	38	o. bc	b.	3.0	Total.				Morning.			
City (Bunhill Row) ...	...	...	...	...	...	...	...	...	...	Average Rate.				Evening.			
Westminster (St. James's Pk.) ...	68	92	78	70	51	51	bc	bc	o.c.	86 Milliwatts.				...			
Camden Sq. (Brit. Rainfall) ...	64	84	69	74	51	50	o. bc	bc	*	British Isles ...				h. 7			
Hampstead (Reservoir) ...	...	92	74	67	45	36	a	b	bc	France ...				h. 7			
S. Kensington (Museum Grounds) ...	...	83	74	71	51	51	o.c.	bc	bc	Norway ...				h. 7			
Richmond Park ...	...	...	...	...	...	...	...	...	...	Denmark ...				h. 6			
Kew. (See front page.) ...	...	...	74	...	...	...	...	...	...	Holland ...				h. 6			
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	...	...	...	...	...	...	...	...	...	Italy ...				h. 7			
										Egypt ...				h. 6			
										Limassol ...				h. 6			

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

...	23 <sup>rd</sup> July 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Greenwich ...	4.0	11.39	7.56	7.56
Wick ...	4.12	12.6	8.0	7.59
Valencia ...	4.25	12.18	8.51	8.49
	4.30	12.47	8.44	8.42
	4.52	12.47	8.42	8.42

## PILOT BALLOON ASCENTS for the PAST WEEK.

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

STATION, Date and Hour.	Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.	
	Eskdalemuir		Eskdalemuir		Benson		Benson		Benson		Benson		Benson		Benson	
	18th	7h.47m	19th	12h.38m	20th	7h.19m	21st	7h.12m	22nd	7h.12m	23rd	7h.12m	24th	7h.12m	25th	7h.12m
Heights in Kilometres	35	+7	-6	...	...	...	...	...	...	...	...	...	...	...	...	...
	3	+7	-3	...	...	...	...	...	...	...	...	...	...	...	...	...
	2	+8	-6	...	...	...	...	...	...	...	...	...	...	...	...	...
	1	+3	-3	...	...	...	...	...	...	...	...	...	...	...	...	...
	0.5	+3	+1	...	...	...	...	...	...	...	...	...	...	...	...	...
	0	+2	+6	...	...	...	...	...	...	...	...	...	...	...	...	...

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

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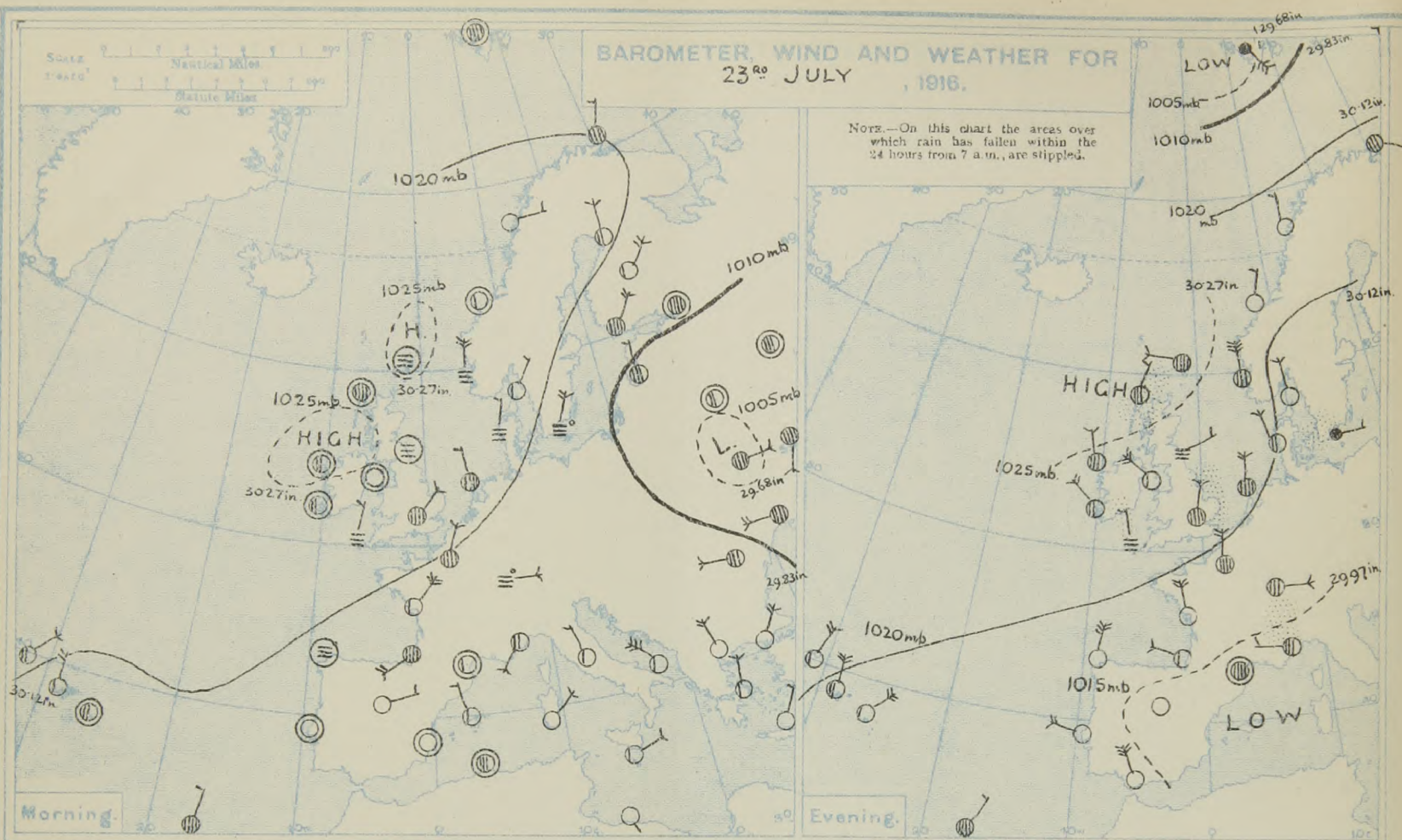


## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 206.

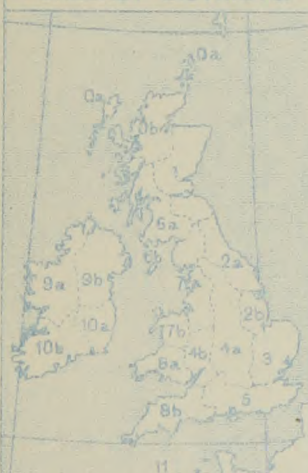
Monday,  
24th July,

STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS							Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		Weather.					
			Direc.	Force 0-12.		Milli- bars in 3 hours.	Change in 24 hours.	Direc.	Force 0-12.	Max.	Min.					Morning.	Afternoon.	Night.					
BRITISH ISLANDS.	Lerwick ...	1025.6	56	WNW	2	om	1025.9	0	52	0	NE	3	-	f	2	-	63	50	f. bc	bc om	f.	*	
	Deerness (Orkney) ...	1025.7	58	E	1	c	1025.4	*	54	+1	E	1	-	f	0	-	63	54	f. c	c.	c.	3.5	
	Stornoway ...	1025.5	60	NNE	1	c	1023.5	-1	57	0	NN	1	-	odp	1	0.3	66	54	oz	oz	oz odp	0.3	
	Castlebay (Barra Isd.) ...	1026.0	60	NW	3	o	1026.1	0	58	0	-	0	-	o	1	Trace	64	55	o	o	o	0.7	
	Glasgow ...	1024.2	68	WSW	1	out	1024.4	0	59	+2	E	2	-	bc	*	2	80	54	by	b. ocl	bc. bc	9.1	
	Eskdalemuir ...	1023.5	68	-	0	c	1024.4	0	61	-3	NNE	1	W	bcw	*	-	76	48	bc. bc	ct. bc.	bc. bc	8.6	
	Malin Head ...	1024.9	60	NE	1	bm	1024.0	-2	58	+4	E	2	-	cm	2	-	63	53	bc	bm	cm	3.5	
	Blacksod Point ...	1025.2	62	NNW	2	cy	1024.1	0	60	0	-	0	-	bc	0	-	64	56	bc	cy	cy. bc	*	
	Valencia ...	1024.1	65	NW	3	bc	1023.0	0	61	+1	N	2	S	cy	2	-	71	58	bc. cy	c. bc	c. bc. cy	10.4	
	Roche's Point ...	1024.3	63	ESE	1	om	1024.2	*	61	0	NNW	1	-	o	1	0.2	66	59	bc f	f. om	om. bc	*	
	Birr Castle ...	1023.1	74	NW	1	c	1023.1	*	62	+2	NW	1	-	f	*	-	76	59	f. c	ct.	c.	4.1	
	Donaghadee ...	1023.9	61	NW	2	bc	1023.7	0	55	-1	N	2	-	bc	2	-	63	54	bc	bc	bc	*	
	Liverpool (Ridson) ...	1022.9	70	NW	2	o	1023.3	0	61	+1	ESE	2	-	b	1	-	72	57	bc	b	bc	11.6	
	Holyhead ...	1023.3	63	NW	4	bm	1022.8	0	59	0	-	0	-	bm	0	-	68	57	bm	bm	bm	12.4	
	Pembroke (St. Ann's) ...	1023.1	72	N	2	b	1023.4	0	61	0	E	2	-	by	0	-	75	60	b	b	b	12.3	
	Scilly (St. Mary's) ...	1024.1	61	NNW	1	f	1024.0	0	59	0	-	0	-	f	2	0.2	66	57	f	f	f	0.0	
	Falmouth ...	1022.3	72	N	3	m	1022.3	0	59	-3	ESE	2	-	f	*	-	76	58	bc	bc	f	12.9	
	Jersey (St. Aubin) ...	1022.1	64	E	3	b	1022.5	*	60	0	ENE	3	-	o	3	-	69	57	c. b	b	b. o.	13.3	
	Portland Bill ...	1023.3	62	S	1	b	1023.1	-1	59	+2	NE	2	NE	b	1	-	63	55	bc. b	b.	b. bc. c	*	
	Dungeness ...	1022.0	59	NE	2	o	1022.2	0	54	+2	NE	3	-	od	2	0.2	61	54	o. c. o	o. c. o	od	*	
	Dover ...	*	*	*	*	*	1022.6	+1	53	-1	N	3	N	o	2	0.2	60	52	ed. o	o. c.	c. o. e	0.0	
	Wick ...	1025.7	55	NE	1	m	1024.8	0	53	-1	-	0	-	f	1	-	57	51	f. m	omg	om. f.	*	
	Nairn ...	1025.4	61	NE	2	c	1024.4	*	57	-4	-	0	-	mew	1	0.2	73	56	bc	bc	om	8.1	
Aberdeen ...	1024.7	67	S	1	b	1024.8	0	60	0	-	0	3	b	1	-	74	55	b	b	bc. b.	12.9		
Leith ...	1024.1	60	NE	1	bc	1024.9	0	57	+4	E	1	E	c	1	-	55	52	b	b	bc	*		
Tynemouth ...	1025.4	56	ENE	1	o	1025.0	0	57	+5	ENE	1	NE	bc	2	-	58	50	f	f	cm.	*		
Spurn Head ...	1024.8	50	NE	3	om	1023.3	-1	57	+3	NE	4	-	omd	4	0.3	60	50	bc. o	f. m.	omd	3.0		
Yarmouth ...	1023.0	56	NE	3	o	1022.7	-1	54	+1	N	2	-	omd	2	-	59	52	om	om.	o. om.	0.0		
Clacton-on-Sea ...	1022.6	59	NNW	2	o	1023.1	0	52	-1	NNW	3	-	o	2	-	59	51	oge	oge	oge.	0.0		
Nottingham ...	1023.3	67	NE	2	b	1024.6	*	54	+3	NE	1	NE	om	*	-	70	51	o. c. b	b	oge.	4.9		
Benson (Oxon.) ...	1022.8	65	NE	2	b	1024.1	+1	50	-1	N	2	-	o	*	-	66	46	bc	b	b. bc	*		
St. Farnborough ...	1022.6	60	NNE	2	o	1022.9	+4	52	-4	N	2	-	om	*	-	62	50	o. cm	c. om	om	4.0		
London (Kew Obs.) ...	1023.1	59	NNE	2	o	1023.7	+2	52	0	NNE	2	-	o	*	-	59	51	o	o	o	0.0		
NORTHERN EUROPE.	Spitsbergen ...	1023.9	37	SSE	5	r	999.1	-3	41	+2	SSE	6	*	o	*	-	39	37	UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....				
	Vardö ...	1021.0	52	SE	1	c	1015.5	-5	59	+7	SE	2	-	b	1	*	55	50					
	Bodö ...	1021.7	59	N	1	b	1021.1	0	57	0	SW	4	-	o	2	-	59	54					
	Christiansund ...	1022.9	61	NNE	1	b	1024.0	0	57	+2	-	0	-	o	1	-	64	55					
	Skudesnaes ...	1022.1	55	NNW	6	c	1021.1	0	57	0	N	5	-	f	2	-	59	50					
	Færder (X'launafjord) ...	1018.9	68	NNW	2	b	1019.0	0	66	0	ENE	2	-	b	2	-	72	59					
	The Scaw (Skagen) ...	1020.0	63	NNW	2	bc	1019.3	0	59	0	NNW	2	-	o	2	-	64	55					
	Blaavands Huk ...	1017.2	64	SE	2	o	1016.2	0	63	0	NNE	3	-	o	4	2	73	63					
Copenhagen ...	1016.8	59	E	1	r	1015.5	0	59	-2	NNE	2	-	f	1	18	66	57	NOTES  Lyons Thunderstorms during last evening beginning at 18h.					
Bornholm ...	1016.8	59	E	1	r	1015.5	0	59	-2	NNE	2	-	f	1	18	66	57						
The Helder ...	1021.2	59	N	3	o	1021.0	0	55	-2	NW	1	-	o	1	-	63	55						
C. Gris Nez ...	1020.8	58	NE	3	c	1021.9	0	57	+2	NNE	4	*	o	4	Trace	64	55						
La Hève ...	1020.7	58	NE	4	o	1020.3	*	59	+2	NNE	1	*	o	1	-	72	52						
Brest (St. Mathieu) ...	1022.7	70	NNE	2	b	1023.7	0	60	-3	-	0	*	m	0	-	79	59						
Rochefort (Ile d'Aix) ...	1017.6	72	NNW	3	b	1019.7	0	59	-4	NNW	3	*	b	*	-	77	55						
Biarritz ...	1018.4	73	WNW	2	b	1019.5	0	70	+3	WNW	2	*	bc	2	-	73	66						
FRANCE, &c.	Paris ...	1018.3	66	N	3	o	1020.2	+1	59	+4	N	2	-	o	*	-	68	54	NOTES  Lyons Thunderstorms during last evening beginning at 18h.				
	Belfort ...	1015.5	73	E	2	c	1017.7	*	59	0	E	4	*	m	*	-	80	59					
	Lyons ...	1017.3	69	S	1	o	1017.7	*	64	-1	N	1	*	o	*	3	79	53					
	Nice ...	1014.6	71	W	1	c	1013.1	0	71	-2	-	0	*	b	0	Trace	84	65					
	Perpignan ...	1012.3	75	-	0	o	1013.0	0	73	-2	WNW	3	-	b	*	-	82	66					
	Sanguinaire ...	*	77	SW	3	b	*	*	76	-	E	1	*	bc	1	-	86	72					
	Corunna ...	1018.7	72	NNE	5	b	1018.4	0	70	+6	NE	1	-	b	1	-	72	63					
	Madrid ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
SOUTHERN STATIONS.	Lisbon ...	1016.0	73	WNW	3	b	1015.9	0	64	-2	W	2	-	b	2	-	77	64	NOTES  Lyons Thunderstorms during last evening beginning at 18h.				
	Azores ...	1019.5	*	N	4	bc	*	*	*	*	*	*	*	*	*	*	*	*					
	Madeira ...	1019.4	70	NNE	1	o	1018.6	-1	64	-4	?	?	-	o	?	-	72	64					
	Gibraltar ...	1015.9	66	NW	5	b	1015.9	*	65	*	NW	2	*	b	2	-	80	64					
	Malta ...	*	*	*	*	*	1014.9	+2	79	+2	SSE	2	-	bc	1	-	84	75					
	Limassol ...	*	*	*	*	*	1005.0	+1	81	-1	N	2	-	b	2	-	91	68					
	Alexandria ...	1009.3	79	NNW	4	b	1006.7	0	79	-2	WNW	4	N	bc	3	-	88	75					
	Cairo (Helwan) ...	1007.4	86	N	5	b	1007.9	0	77	0	N	3	-	b	*	-	97	72					
YESTERDAY'S REPORTS		22nd July, 20 h. G.M.T.					23rd July, 7 h. G.M.T.																
MEDITERRANEAN.	Venice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	NOTES  Lyons Thunderstorms during last evening beginning at 18h.				
	Pesaro ...	1015.9	72	-	0	b	1016.2	*	70	+2	-	0	-	b	1	*	81	62					
	Rome ...	1015.6	73	SW	1	b	1016.4	*	72	0	NNW	1	-	b	*	-	84	63					
	Viesti ...	1013.7	72	WNW	3	b	1015.3	*	74	+1	WNW	2	SW	b	3	-	79	70					
	Brindisi ...	1013.9	75	NW	5	b	1014.9	*	73	+1	NW	5	NW	b.	5	-	79	72					
	Cagliari ...	1014.0	82	SE	4	b	1015.9	*	77	+2	NE	2	-	b	0	-	86	61					
	Palermo ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
	Tripoli ...	1012.4	79	-	0	b	1014.2	*	86	+4	SSE	1	-	b	3	-	88	77					
Algiers ...	1013.2	77	-	0	bc	1013.5	0	77	+2	-	0	W	c	0	-	88	77						





#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 } Light winds, indefinite in direction; fair, but mist and fog prevalent; tendency to thunderstorms; cool.

1 }  
2 }  
3 } Light Northerly winds; chiefly dull, with occasional slight drizzle; tendency to thunderstorms; some mist; cool.

4 }  
5 }  
6 } Light indefinite winds; cloudy, slight rain at times; some mist or fog; cool.

7 }  
8 }  
9 } Light indefinite winds; fair or fine, but tendency to thunderstorms; some mist or fog; normal temperature.

10 }  
11 } Calms or light Northerly winds; smooth sea; fine, but some mist.

#### FURTHER OUTLOOK.

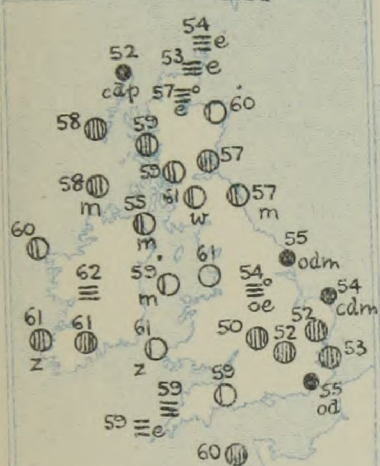
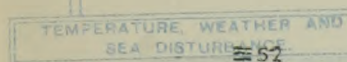
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director



GENERAL INFERENCE.

Quiet conditions  
will continue.



EXPLANATION.

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

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

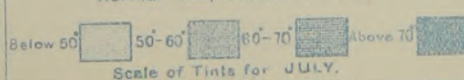
TEMPERATURE.—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky.    ◐ sky  $\frac{1}{2}$  clouded.    ◑ sky  $\frac{3}{4}$  clouded.  
 ◒ sky  $\frac{3}{4}$  clouded.    ◓ overcast sky.    ☔ rain falling.  
 \* snow.    ▲ hail.    ☁ fog.    ☁ mist.    ⚡ thunder.  
 ☁ thunderstorm.

SEA DISTURBANCE.—Rough  High .



Normal Temperature of the Sea.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	22 <sup>nd</sup> AT 9 P.M. LOCAL TIME.					23 <sup>rd</sup> AT 7 A.M. LOCAL TIME.										Rain- fall. Milli- metres.	TEMP.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
Archangel ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gorki ...	1003.1	64	-	0	b	1005.3	0	64	+1	-	0	*	bc	*	-	*	59.	
Veliki Luki ...	1003.2	65	-	0	o	1005.2	*	63	-	-	0	*	c	*	-	*	55	
Hangö ...	1011.5	66	N/E	3	bc	1013.1	+2	64	+3	NE	3	*	c	*	-	*	57	
Riga ...	1008.8	64	N	3	bc	1009.9	0	66	-2	N	1	*	c	*	-	*	63.	
Petrograd ...	1008.0	66	NE	2	b	1011.0	+2	66	-4	-	0	-	o	*	11	68	64	
Moscow ...	1006.4	61	SE	1	b	1007.7	+1	59	-2	-	0	*	c	*	1	*	54	
Kiev ...	1004.3	63	SW	4	*	1003.5	+2	63	+2	E	2	*	o	*	18	*	59	
Kharkov ...	1007.1	63	-	0	o	1007.4	+1	63	+4	SSW	2	*	o	*	-	*	55.	
Kishinev ...	1004.6	64	WSW	3	o	1006.7	+1	66	*	NW	4	*	o	*	2	*	61.	
Elisabetgrad ...	1004.8	66	S	2	b	1004.9	0	63	+2	SE	2	*	b	*	-	*	57	
Nicolaiev ...	1005.6	68	SW	2	bc	1005.1	*	66	+3	SSW	2	*	bc	*	-	*	57	
Odessa ...	1006.6	68	WSW	3	o	1005.3	0	64	-2	W	3	*	o	*	1	*	63.	
Tarkhankout ...	...	...	...	...	...	1006.7	0	72	+13	W	1	*	c	*	1	*	64	
Soukhom ...	1008.6	75	-	0	o	1006.9	0	73	+3	-	0	*	c	*	-	*	70	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY. UP TO 17h.

STATIONS.	Sun- shine for 22nd	Rainfall		TEMPERATURE		WEATHER.		Sun- shine to 17h.	STATIONS.	Sun- shine for 22nd	Rainfall		TEMPERATURE		WEATHER.		Sun- shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
Oban ...	12.9	-	-	68	52	b	b	9.3	Lowestoft ...	6.8	-	-	59	52	o	o	9.0
Banff ...	10.6	-	-	64	50	bc	bc	8.8	Felixstowe ...								
Carnoustie ...	*	-	-	63	54	b	b	10.9	Walton-on-Naze ...								
St. Andrews ...									Southend-on-Sea ...								
England, N.E.									England, S.E.								
Harrogate ...	10.0	-	-	72	49	o.c.bc	b	5.7	Margate ...				59	53	o	o	9.3
Skegness ...	8.7	-	-	67	50	o	bc.o	2.4	Ramsgate ...	0.8	-	-	61	52	o	o	9.0
									Hastings ...	*	-	-	62	55	o	o	9.0
									Eastbourne ...	5.7	-	-					
England, N.W.									Seaford ...								
Morecambe ...									Brighton ...				62	54	o	o	11.1
Blackpool ...									Worthing ...	4.1	-	-	59	59	o	o	9.6
Southport ...	9.9	-	-	77	55	b	b	10.9	Littlehampton ...	5.7	-	-		53	o	o	9.0
									Bognor ...								
Midlands.									Bournemouth ...	*	-	-	66	61	bc.b	b	10.0
Buxton ...									England, S.W.								
Leamington Spa ...	8.9	-	-	68	49	o.b	b	7.1	Weymouth ...				67	57	b bc.c	bc.b	6.9
Malvern ...									Torquay ...	*							
Ross-on-Wye ...									Paignton ...								
									Penzance ...								
Wales.									Newquay ...	*	-	-	69	57	b	b	9.2
Rhyl ...	*	-	-	73	53	bc.b	b	10.0	Bude ...	7.1	-	-	76	52	b	b	10.4
Colwyn Bay ...	*	-	-	72	57	bc	bc	10.0	Ilfracombe ...								
Llandudno ...	*	-	-	75	56	b	b	10.2	Weston-s-Mare ...								
Aberystwyth ...	*	-	-	69	56	c.b	c.o	8.0									
Tenby ...																	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.	Total. 44.3 Joules.	Average Rate. 7.8 Milliwatts.	Max. Rate. 23 Milliwatts.		
	15 h. Yester- day.	9 h. To- day.		In Shade.		Min. on Grass.		Fore- noon.	After- noon.	Night.						
				Max.	Min.											
24 HOURS ENDED 9 h. To-Day										Hours of Observation G.M.T.						
%	%	Mr.	F.	F.	F.	mm.				Morning.	Evening.		Morning.	Evening.		
Greenwich (Royal Obs.) ...	78	88	0.0	59	50	52	-	o.	o.	o.						
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*						
Westminster (St. James's Pk.) ...	87	93	0.0	61	52	52	-	m.	m.	o.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	-	84	0.0	62	51	50	-	-	-	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	91	0.0	57	47	40	-	o	o	o.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	86	0.0	60	52	50	-	o	o	o.	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*		*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	0.0	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	-
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
											Egypt ...	6	18	Limassol...	6	-

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

24th & 25th July 1916.	Sunrise.	Noon.	Sunset.
Yarmouth ...	4.2 11.54	12.54	7.56
Greenwich ...	4.13 11.44	12.5	7.56
Wick ...	3.47 12.49	12.18	8.49
Valencia ...	4.52 12.47	12.47	8.41

## NOTES ON YESTERDAY'S WEATHER.

The day was mainly dull in the South-East of the country. Elsewhere it was brighter, with sunshine up to 13 hours at Falmouth and Aberdeen. Thunder was reported from Ireland and Scotland and there was a good deal of fog.

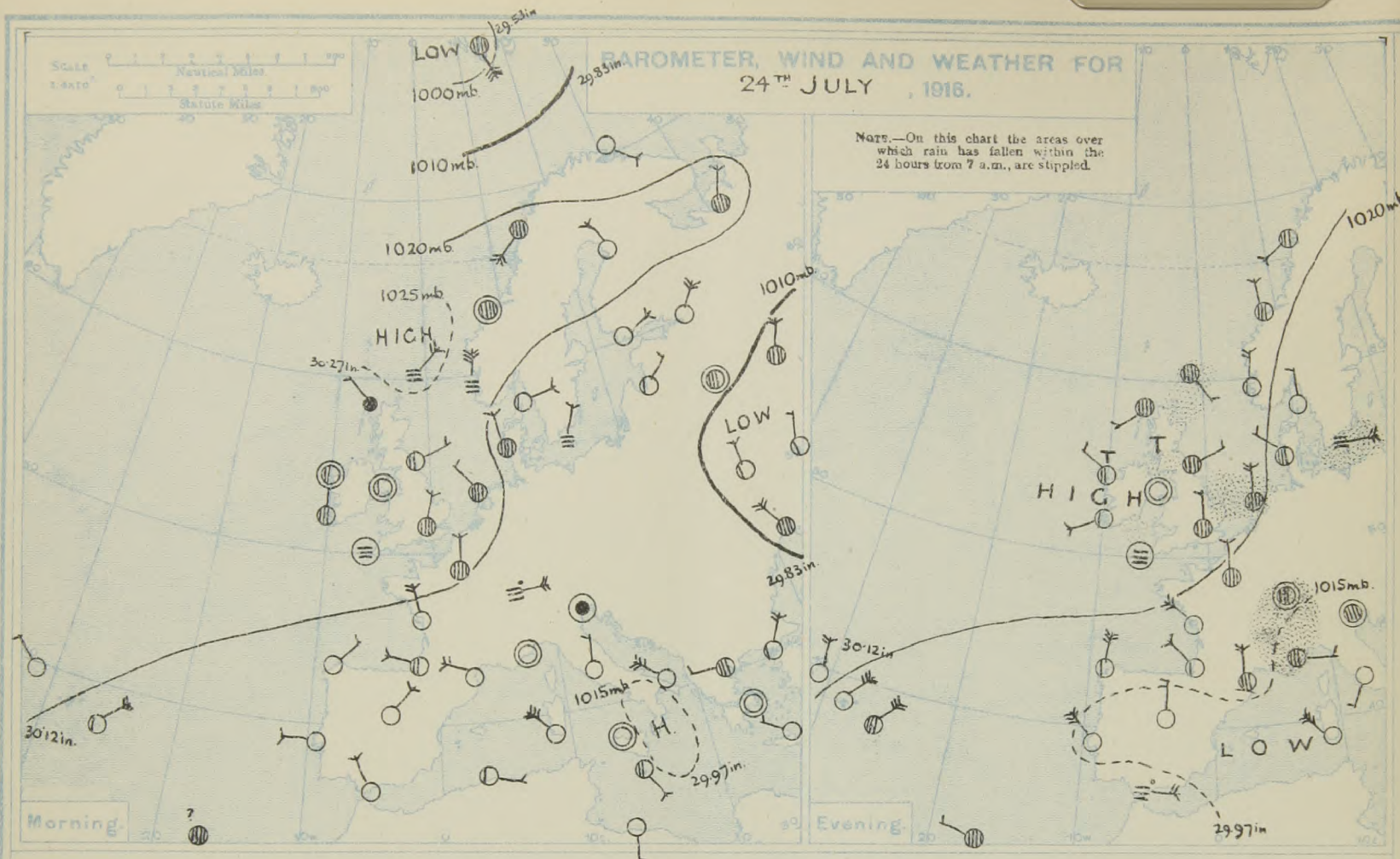
NOTE.—The information relating to weather is indicated by the following letters—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling rain; e, wet air, without rain falling; f, fog; g, gloom; h, hail; l, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r, rain; 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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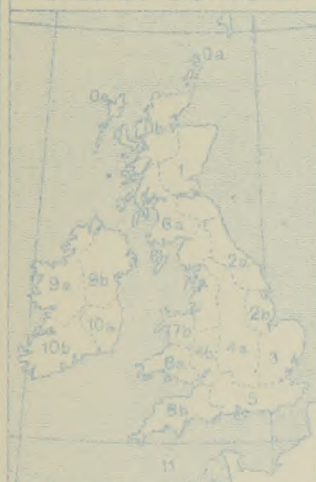
‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay 1)

Calms and light variable breezes; some mist or fog in many localities, slight local showers, thunder tendency; cool.

Calms and light variable breezes; sea slight; fine to dull, some mist or fog; cool.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

Millibars

1050

1040

1030

1020

1010

1000

990

980

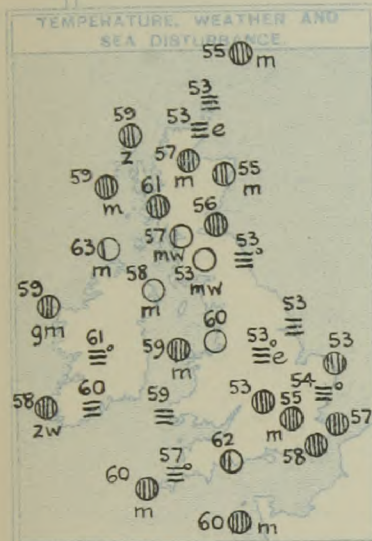
970



# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 25<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

There are no indications  
of any important change.



## 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 1/2 clouded. ○ sky 3/4 clouded.

○ sky 1/2 clouded, ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

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

LOW

Barometer

falling

Barometer

steady

HIGH

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

60°

Scale 1:2500  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 50 50-60 60-70 Above 70

Scale of Tints for JULY.



# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	... AT 9 P.M. LOCAL TIME.					... AT 7 A.M. LOCAL TIME.									
	Barom. Milli- bars at M.S.L.	Temp. F.	Wind.		Weather.	Barom. Milli- bars at M.S.L.	Temp.		Wind.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.	
			Direc.	Force 0-12.			Change in 3 hours.	Dry Bulb. F.	Change in 24 hours.					Max.	Min.
Archangel ...	1020.8	57	NNH	1	0.										
Gorki ...															
Veliki Luka ...	1006.4	66		0	bc	1011.3		64	+1	0					57
Hangö ...	1017.1	66		0	b	1018.9	+1	66	+2	ENE	2				59.
Riga ...						1013.5	0	70	+4	NE	1				64.
Petrograd ...	1012.5	66	NE	3	b	1017.6	+1	63	-3	NE	4				59.
Moscow ...	1006.6	63	WNW	6	c	1006.7	+1	61	+2	NNE	3				59.
Kiev ...	1007.5	63	N	2	0	1007.4	0	64	+1	N	2				59.
Kharkov ...	1006.6	72	NNW	2	0.	1005.6	+1	68	+5	NE	1				61.
Kishinev ...	1011.4	64	WNW	8	c	1011.3	0	61	-5	NW	4				59.
Elisabetgrad ...	1006.0	68	NNW	2	0	1006.6	0	64	+1	NW	3				63.
Nicolaiev ...	1006.3	68		0	0	1006.4		66	0.	NW	3				63.
Odessa ...	1007.8	66	NW	4	b	1008.3	+1	64	0.	NNW	4				61.
Tarkhankout ...	1009.0	72	W	4	b										
Soukhoum ...	1009.1	75		0	0	1009.3	-1	73	0.	NNE	1				66.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17 h.

STATIONS.	Sun- shine for 23 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.	STATIONS.	Sun- shine for 23 <sup>h</sup> .	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	F.	F.						Mm.	Mm.	F.	F.			
Scotland.									England, E.								
Oban ...	10.4	-	-	69	55	c.	bc. o.	6.0	Lowestoft ...	0.1	-	-	59	51	o	od	0.2
Banff ...	9.4	-	-	71	54	bc	bc	5.4	Felixstowe ...	0.0	-	-	61	50	o	o	0.0
Carnoustie ...	10.9	*	*	65	59	b	b	10.1	Walton-on-Naze ...				61	50	o	o	0.0
St. Andrews ...		-	-	71	50	b	b	9.6	Southend-on-Sea ...	0.0	-	-	61	50	o	o	0.0
Eng. N.E.									England, S.E.								
Harrogate ...	8.9	-	-	70	50	sm. c. b	b.	7.6	Margate ...		-	-	60	53	o	o	0.0
Skegness ...	2.4	-	-	59	51	o	o	0.1	Ramsgate ...	0.3	-	-	59	52	o	o	0.0
Eng. N.W.									Hastings ...	0.0	1	-	60	53	od o	o	0.0
Morecambe ...		-	-	76	58	-	-	12.9	Eastbourne ...	4.0	-	-	59	55	c. o	o	0.0
Blackpool ...		-	-						Seaford ...		-	-					
Southport ...	12.0	-	-	77	54	b	b. bc. z	11.5	Brighton ...		-	-	62	56	o	o	0.3
Midlands.									Worthing ...	0.6	-	-	63	57			0.8
Buxton ...		-	-	66	51	ae	b	6.0	Littlehampton ...	0.0	-	-	65	55	o. bc	bc. o	3.9
Leamington Spa ...	9.6	-	-	69	52	m. bc	bc	6.3	Bognor ...		-	-	69	51	bc. b	b	10.5
Malvern ...		-	-	72	49	m. bc	z. b	6.5	Bournemouth ...	10.0	-	-					
Ross-on-Wye ...	9.1	-	-						Weymouth ...		*	*	71	52	o. bc. b	bc. z	10.0
Wales.									Torquay ...		-	-	64	59	of	ox. c	0.6
Rhyl ...	11.7	-	-	78	54	bc	b. bc. c	9.8	Paignton ...		-	-	68	57	b	b	7.5
Colwyn Bay ...	10.0	-	-	74	57	bc	bc	10.0	Penzance ...		-	-	73	52	b	b	6.4
Llandudno ...	10.2	*	*	74	57	b	b	0.0	Newquay ...	10.5	-	-	65	52	z. b	b	10.0
Llandudno ...	10.2	*	*	74	57	b	b	0.0	Bude ...	11.4	-	-					
Aberystwyth ...	8.0	-	-	71	58	o. c. b	b. bc	10.5	Ilfracombe ...		-	-	75	51	b	b	11.5
Tenby ...		-	-	75	62	bc	b	9.4	Weston-s-Mare ...		-	-					

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.	Total. 414 Joules.	Average Rate. 7.3 Milliwatts.	Max. Rate. 20. Milliwatts.		
	15 h. Yester- day.	9 h. To- day.		In Shade.		Min- on Grass.		Fore- noon.	After- noon.	Night.						
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY																
%	%	Hr.	F.	F.	F.	mm. g.										
Greenwich (Royal Obs.) ...	77	80.	0.0	60	53	43	-	0	0	0.						
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	77	80.	0.0	61	51	48	-	0	0	sm.	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	77	80.	0.0	52	49	47	-	0	0	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	82	0.0	58	50	34	-	0	0	0.000	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	78	0.0	61	52	43	-	0	0	0.000	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	0.0	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	0.0	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																
Hours of Observation G.M.T.																
											Morning.	Evening.		Morning.	Evening.	
											h.	h.		h.	h.	
											7	18	Corunna ...	7	16	
											7	18	Madrid ...	8	16	
											7	18	Lisbon ...	7	21	
											6	17	Azores ...	8	17	
											6	17	Madeira ...	7	21	
											7	20	Malta ...	8	—	
											6	18	Limassol...	6	—	

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

25 <sup>th</sup> & 26 <sup>th</sup> July, 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.43	11.59	7.54
Greenwich ...	5.44	12.0	7.53
Wick ...	5.49	12.18	8.47
Valencia ...	5.55	12.47	8.40

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; i. 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.

## NOTES ON YESTERDAY'S WEATHER.

Day temperature was very variable, from 55° at Lerwick and Wick to 78° at Rhyl. There was much mist or fog, and thunder occurred in many places, with rain locally. Some stations had no sunshine, some ten hours and upwards.

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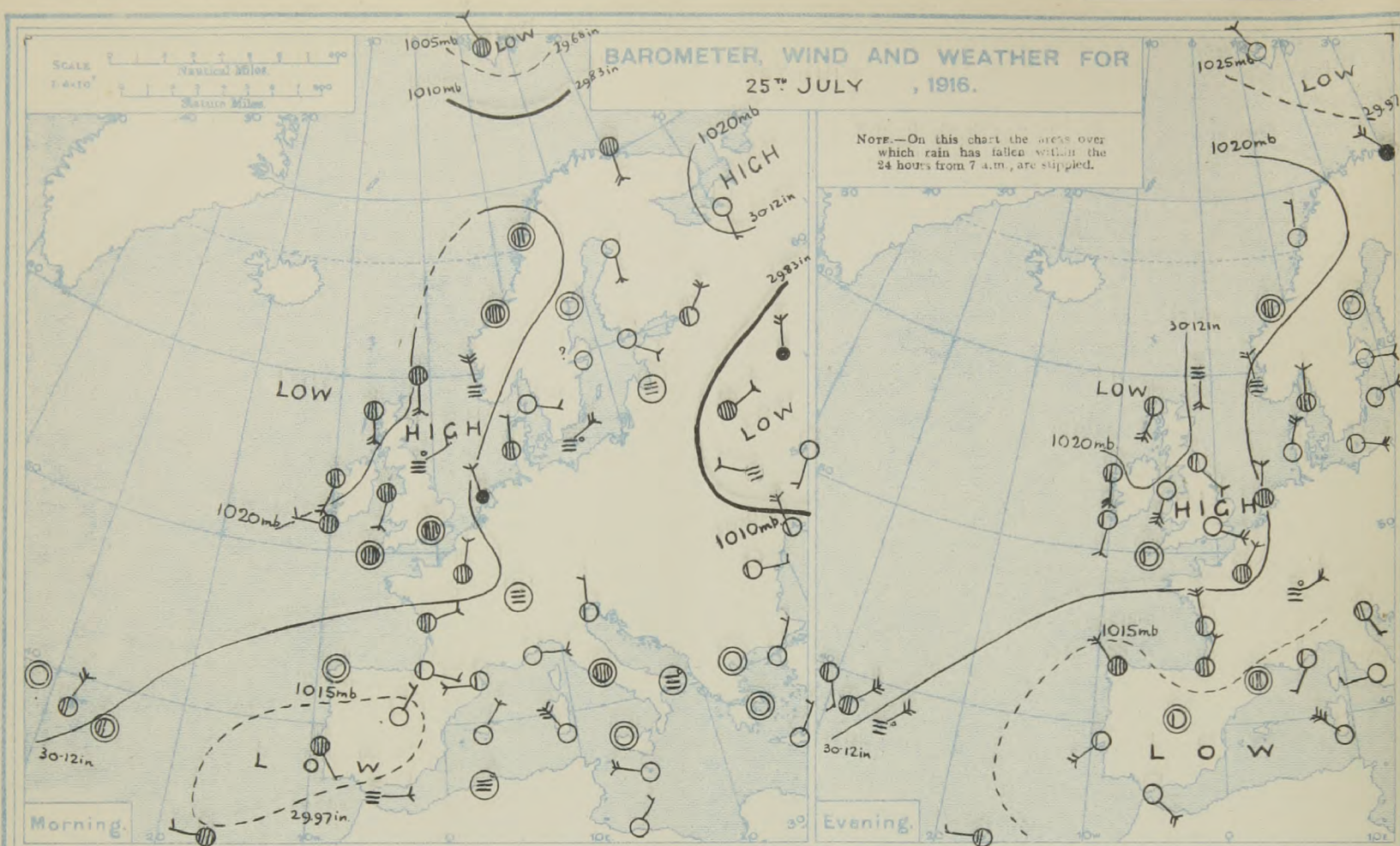
STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
																						Hours.
BRITISH ISLANDS.	Lerwick ...	1021.6	55	S	2	f	1019.9	-2	53	-2	S	2	-	fe	2	0.2	56	52	om	om.f	fe	*
	Deerness (Orkney) ...	1019.3	53	SE	2	f	1018.6	*	53	0	SE	1	-	f	0	-	55	51	f	f	f	0.0
	Stornoway ...	1018.3	65	SSW	4	b.c.z	1017.4	-1	60	+1	S	1	-	c.z	1	-	68	56	c.z	c.b.c.z	b.c.c.z	3.1
	Castlebay (Barra Isd.) ...	1019.0	60	SSE	3	cm	1017.7	0	57	-2	SE	2	-	om	3	Trace	62	55	o.bcm	bcm	c.bcm	8.8
	Glasgow ...	1019.4	73	SSW	1	b.c.z	1020.3	0	58	+1	ESE	1	-	om	*	-	78	57	b.b.c.z	b.c.z	b.bcm	11.6
	Eskdalemuir ...	1019.8	71	S	2	m	1021.1	-1	57	+4	SW	2	-	om	*	0.1	74	50	bm	bz	bm.fom	12.1
	Malin Head ...	1019.2	64	E	1	b.c.z	1018.1	0	58	-5	SW	1	S	bcm	1	-	68	56	bcm	b.c.z	bcm	6.5
	Blacksod Point ...	1020.5	63	S	3	b.c	1017.0	-1	60	+1	S	4	S	cm	3	-	65	58	c.z	b.c	cm	*
	Valencia ...	1020.2	67	SSW	2	b	1018.7	0	62	+4	SSE	2	S	oz	2	-	69	58	oz	o.c.z.b	bz.c.oz	3.7
	Roche's Point ...	1021.3	66	SSW	3	b	1021.4	*	62	+2	-	0	-	o	1	Trace	69	59	f.bz	bz	b.o	*
	Birr Castle ...	1019.2	74	W	1	m	1019.8	*	61	0	SSW	1	S	b.c	*	-	76	57	z	z	b.c	8.4
	Donaghadee ...	1019.6	67	SSW	3	b.f	1019.9	0	57	-1	S	3	-	fe	2	Trace	71	54	b.f	b.f	b.c.f.f	*
	Liverpool (Bidston) ...	1021.7	60	NW	1	o	1021.0	-1	58	-2	-	0	-	f	1	-	60	57	b	om	om.f	6.8
	Holyhead ...	1021.1	62	SSW	5	b.f	1020.7	0	59	0	SSW	4	-	f	3	Trace	64	56	fe.f	fe	b.f.f	3.4
	Pembroke (St. Ann's) ...	1021.6	63	SW	1	b	1020.5	-1	60	+1	-	0	-	b.f	0	-	65	55	m	m	b.f	5.8
	Scilly (St. Mary's) ...	1022.0	66	-	0	bm	1021.8	-1	61	+1	-	0	-	bm	1	-	69	56	om cm	bm	bm	6.5
	Falmouth ...	1021.2	65	SSE	1	b.z	1020.3	0	61	+4	N	2	-	bz	*	-	66	56	om.b.c	b.c.bz	bz	8.1
	Jersey (St. Aubin) ...	1021.0	64	N	2	b	1020.3	*	61	+1	E	3	E	bcm	2	-	67	56	om.cag	g.c.b	b.bcm	5.8
	Portland Bill ...	1021.5	61	W	2	b	1020.9	-1	60	-2	-	0	-	b	0	-	67	56	b	b	b	*
	Dungeness ...	1021.7	58	E	2	o	1021.7	0	57	-1	E	1	-	o	1	-	60	55	o	o	o	*
	Dover ...	*	*	*	*	*	1021.5	0	56	-1	N	1	N	o	2	-	60	54	o	o	o	0.0
Wick ...	1018.6	57	SSE	3	m	1017.9	0	56	+3	-	0	-	me	1	-	59	50	f. om	o.bcm	om.bm	*	
Nairn ...	1019.7	74	-	0	c.z	1018.5	*	61	+4	-	0	-	b.c.z	1	0.1	74	55	c.z	b.c.t	cm	4.4	
Aberdeen ...	1020.1	60	SSE	2	b	1019.4	0	59	+4	-	0	-	bm	2	-	65	53	bcm.b	bz	bm.w	10.2	
Leith ...	1019.7	60	E	1	c	1019.7	0	60	+4	W	1	-	b	1	-	64	55	o.c.b.c	b.c.c	c.b.c.b	*	
Tynemouth ...	1021.2	57	SE	2	bcm	1020.8	?	56	+3	SE	1	-	om	2	-	62	53	f	f	om	*	
Spurn Head ...	1022.9	54	E	3	f	1021.8	-1	53	0	SSE	1	-	fe	2	0.2	58	50	f.c	c.f	f	0.8	
Yarmouth ...	1022.0	56	NNE	3	o	1021.6	0	52	-1	NE	1	-	f	1	-	59	51	o.c.m.d	c.o	om.f	2.9	
Clacton-on-Sea ...	1021.5	59	SE	1	o	1021.7	0	55	+1	SE	1	-	f	0	-	60	53	ogm	og	ogme	0.0	
Nottingham ...	1020.8	71	E	1	b	1021.8	*	51	-2	E	1	-	fa	*	-	74	48	m.c.b	og	b	*	
Benson (Oxon.) ...	1020.5	74	NE	2	b	1021.4	+1	52	-1	-	0	-	f	*	-	76	47	b	b	bz.f	7.2	
Sth Farnborough ...	1019.8	73	E	2	b	1020.8	0	55	+1	-	0	-	f	*	-	76	45	m.o.b.c	b.c.b	b.f	7.2	
London (Kew Obs.) ...	1020.6	69	ESE	3	bz	1021.5	+1	54	-1	-	0	-	om	*	Trace	71	48	om.o.c	c.b.c.bz	bz.m.f.d	6.1	
NORTHERN EUROPE.	Spitsbergen ...	1012.4	41	NNW	2	b	1017.2	+2	41	+2	WSW	4	*	b	*	*	45	36	*	*	*	
	Vardö ...	1017.2	48	NW	3	r	1021.2	0	48	-6	NW	4	*	o	4	*	55	46	*	*	*	
	Bodö ...	1023.4	55	N	1	b	1023.8	0	54	-1	-	0	-	c	0	-	55	45	*	*	*	
	Christiansund ...	1021.9	59	-	0	c	1021.1	0	59	0	E	2	-	c	?	-	?	?	*	*	*	
	Skudesnaes ...	1019.9	55	NNW	3	f	1020.0	0	55	+1	-	0	-	f	1	-	61	52	*	*	*	
	Færder (X'faniafjord) ...	1018.9	72	N	2	c	1019.9	0	68	0	WNW	1	-	b	1	-	73	57	*	*	*	
	The Scaw (Skagen) ...	1018.3	66	NNE	3	b	1020.2	0	66	+2	NNE	1	-	b	1	-	68	55	*	*	*	
FRANCE, &c.	Blaavands Huk ...	1017.7	70	WSW	3	c	1019.7	+1	64	+1	SE	2	-	b	*	-	73	61	*	*	*	
	Copenhagen ...	1017.7	70	WSW	3	c	1019.7	+1	64	+1	SE	2	-	b	*	-	73	61	*	*	*	
	Bornholm ...	1017.1	63	ESE	3	b	1018.7	0	61	+2	NE	4	-	c	1	-	63	57	*	*	*	
	The Helder ...	1020.0	59	N	2	o	1020.6	0	57	+2	NNE	1	-	o	0	-	61	55	*	*	*	
	C. Gris Nez ...	1021.3	57	NNE	3	o	1021.1	0	57	0	NE	2	*	o	0	-	59	55	*	*	*	
	La Hève ...	1020.3	60	NE	2	o	1021.1	*	58	+1	NE	2	*	m	1	-	66	54	*	*	*	
	Brest (St. Mathieu) ...	1020.4	70	NE	3	c	1020.6	0	61	+5	E	1	*	m	1	-	70	54	*	*	*	
Roche fort (Ile d'Alx) ...	1017.5	69	NNW	4	b.c	1017.0	0	61	-1	ENE	3	*	m	*	-	79	57	*	*	*		
Biarritz ...	1017.0	70	NNE	2	c	1015.3	-2	68	0	ESE	1	*	b.c	1	-	77	63	*	*	*		
SOUTHERN STATIONS.	Paris ...	1020.2	64	NNE	2	o	1020.3	0	57	-2	-	0	-	o	*	-	66	50	*	*	*	
	Belfort ...	1017.5	68	E	3	m	1019.9	*	56	0	E	4	*	f	*	-	76	53	*	*	*	
	Lyons ...	1016.2	75	N	2	b	1017.1	*	65	-1	-	0	*	b	*	-	78	58	*	*	*	
	Nice ...	1013.0	71	SW	1	b	1012.8	0	72	0	-	0	*	b	0	-	86	63	*	*	*	
	Perpignan ...	1014.4	77	-	0	c	1015.3	0	73	0	SW	1	-	b	*	-	90	64	*	*	*	
	Sanguinaire ...	*	75	W	3	m	*	*	78	0	E	3	*	m	3	-	84	66	*	*	*	
	Corunna ...	1014.3	66	NW	2	o	1013.2	-1	61	-5	NNW	1	-	f	1	-	70	57	*	*	*	
Madrid ...	1012.8	90	-	0	b	1013.5	+2	75	+2	NE	1	-	f	*	-	93	68	*	*	*		
Lisbon ...	1013.3	72	SW	3	b	1013.2	+1	64	+1	W	1	-	o	2	-	73	63	*	*	*		
Azores ...	1020.7	*	NE	4	c	1021.7	+1	67	+1	-	0	*	b	0	-	75	64	*	*	*		
Madeira ...	1015.4	72	W	1	b.c	1017.1	0	66	0	-	0	-	b	0	-	72	66	*	*	*		
Gibraltar ...	1014.9	72	SE	3	b	1014.2	*	70	0	SE	3	*	o	0	-	80	67	*	*	*		
Malta ...	*	*	*	*	*	1013.9	+2	77	-2	NNW	3	-	b	1	-	88	73	*	*	*		
Limassol ...	*	*	*	*	*	1004.7	+1	93	+11	W	1	-	b	2	-	93	70	*	*	*		
Alexandria ...	1007.1	77	NNW	4	b	1008.3	+1	81	+2	NW	3	-	b	2	-	86	77	*	*	*		
Cairo (Helwan) ...	1005.3	90	N	2	b	1008.7	+3	75	0	N	2	-	b	*	-	97	72					

## RAINFALL.

Equivalents of Millimetres  
in Inches.

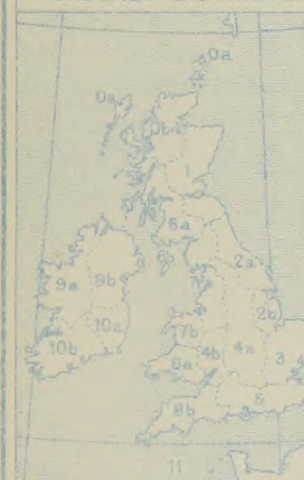
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
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





**FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.

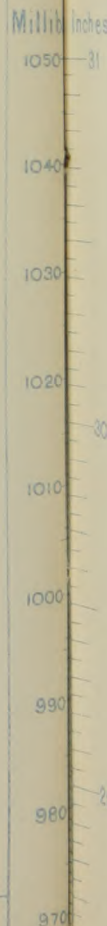
**No Warnings Issued.**

Western Channel and Bay 1)

Calms and light variable breezes; dull to fair, much mist or fog; variable temperature.

Light Easterly breeze, sea moderate; fine to fair, with local mist or fog; moderate temperature.

**FURTHER OUTLOOK.**





Scale of Tints for JULY.



REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	24 <sup>h</sup> AT 9 P.M. LOCAL TIME.					25 <sup>h</sup> AT 7 A.M. LOCAL TIME.										Rain-fall. -Milli-metres.	TEMP.	
	BAROM. Milli-bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER. Milli-bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Direc.	Force 0-12.						Direc.	Force 0-12.							
Archangel ...	10216	59	NW	2	bc	10202	0	59	.	S	1	*	b	*	-	*	52	
Gorki ...	-	-	-	-	.	10075	0	55	.	ENE	2	*	o	*	-	*	57	
Veliki Luki ...	10123	61	E	2	c	10124	*	55	-9	WSW	2	*	o	*	-	*	52	
Hangö ...	10187	64	ESE	2	o	10189	0	64	-3	ESE	2	*	b	*	?	*	57	
Riga ...	10171	68	-	0	b	10149	0	66	-4	-	0	*	f	*	-	*	59	
Petrograd ...	10172	64	NE	3	b	10171	0	63	0	NE	3	-	bc	*	-	68	57	
Moscow ...	10079	57	NNE	3	T	10079	0	56	-6	NNE	3	*	r	*	25	*	35	
Kiev ...	10082	61	WNW	2	bc	10084	0	61	-3	NW	2	*	f	*	-	*	59	
Kharkov ...	10057	64	-	0	b	10061	+1	64	-4	WSW	1	*	b	*	-	*	59	
Kishinev ...	10113	66	NW	2	bc	10124	+2	64	+3	NW	3	*	o	*	-	*	61	
Elisabetgrad ...	10090	63	NW	3	c	10090	0	63	-1	NW	3	*	c	*	14	*	57	
Nicolaiev ...	10088	70	SSW	3	c	10096	*	66	0	NNW	2	*	b	*	-	*	63	
Odessa ...	10101	70	N	3	o	10106	+1	66	+2	N	3	*	b	*	-	*	63	
Tarkhankout ...	10106	72	WNW	4	b	10106	?	72	-	W	3	*	bc	*	-	*	70	
Soukhoum ...	10110	73	NNE	1	b	10114	+2	75	+2	-	0	*	o	*	-	*	68	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun-shine for 24h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine to 17h.	STATIONS.	Sun-shine for 24h.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine to 17h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.			Hr.			Mm.	Mm.	° F.	° F.			Hr.
Scotland.									England, E.								
{ Oban ...	68	-	-	70	56	o.bc	b	7.9	{ Lowestoft ...	0.2	0.4	-	57	52	o	o.c	0.8
{ Banff ...	54	-	1	74	54	bc	bc.p.r	6.0	{ Felixstowe ...	0.6	-	-	60	51	og	og	0.0
{ Carnoustie ...	*	-	-	63	54	o.c	bc	4.1	{ Walton-on-Naze ...	-	-	-	60	52	o.c	o.c	0.0
{ St. Andrews ...	99	-	-	66	52	f.b	b	3.4	{ Southend-on-Sea ...	0.0	-	-	61	55	o	o	0.0
Eng. N.E.									{ Margate ...	0.0	-	-	58	53	o	o	0.0
{ Harrogate ...	10.1	-	-	75	52	bc.b	b	9.7	{ Ramsgate ...	0.0	-	-	57	52	o.c	o	0.0
{ Skegness ...	0.1	-	-	58	51	e.o	o	0.9	{ Hastings ...	0.0	-	-	62	55	o	o.b.c	0.3
Eng. N.W.									{ Eastbourne ...	0.0	-	-	63	55	o.bc	bc.o.bc	2.0
{ Morecambe ...	14.4	-	-	73	55			10.3	{ Seaford ...	-	-	-	67	55	o	b	4.2
{ Blackpool ...		-	-						{ Brighton ...	-	-	-	65	56	o	o.b.c.b	3.8
{ Southport ...	11.5	-	-	72	54	bc	b.o	7.2	{ Worthing ...	0.3	-	-	68	55	o	b	4.8
Midlands.									{ Littlehampton ...	0.8	-	-	65	58	o	b	5.0
{ Buxton ...		-	-	76	46	bc	bc	8.0	{ Bognor ...	3.9	-	-	66	51	bc	bc.b	9.3
{ Leamington Spa ...	8.6	-	-	77	46	b	bc	?	{ Bournemouth ...	*	-	-	69	55	b	b	11.0
{ Malvern ...	7.8	-	-	76	55	b	b	12.2	England, S.W.								
{ Ross-on-Wye ...	7.8	-	-	79	45	b	b	11.3	{ Weymouth ...	*	-	-	71	57	c.b	bc	9.5
Wales.									{ Torquay ...	*	-	-	71	59	om.bc.b	b	7.4
{ Rhyl ...	9.8	-	-	65	54	bc.c	c.bc	4.2	{ Paignton ...	*	-	-					
{ Colwyn Bay ...	*	-	-	68	57	bc	bc	10.0	{ Penzance ...	0.6	-	-	67	59	bc	b	8.0
{ Llandudno ...	*	-	-	67	56	m.b	b	7.6	{ Newquay ...	8.4	-	-	65	57	b	b	8.3
{ Aberystwyth ...		-	-						{ Bude ...	6.4	-	-	71	53	o	b	6.1
{ Tenby ...	10.2	-	-	73	60	bc.c	b	3.0	{ Ilfracombe ...	*	-	-	65	55	o.c.b	bc	8.8
									{ Weston-s-Mare ...	13.3	-	-	73	50	b	b	12.2

## LONDON OBSERVATIONS.

STATIONS.	Humidity.		Sun-shine for Yester-day.	TEMPERATURE.			Rain-fall.	WEATHER.		
	15 h. Yester-day.	9 h. To-day.		In Screen.	Min. on Grass.			Fore-noon.	After-noon.	Night.
	%	%	Hr.	° F.	° F.	° F.	mm. & g.			
Greenwich (Royal Obs.) ...	66	82	7.2	69	47	39	-	o.	c. bc	b. o.
City (Bunhill Row) ...	*	*	7.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.) ...	64	82	6.8	70	51	48	-	b.	b.	bc.m
Camden Sq. (Brit. Rainfall) ...	60	75	6.6	74	51	50	-	o.	bc.b	*
Hampstead (Reservoir) ...	*	82	7.5	67	50	36	-	b.	bc.	bc. om
S. Kensington (Museum Grounds) ...	*	79	7.1	71	54	44	-	o. b.	bc.b	bc. om
Richmond Park ...	*	*	6.8	*	*	*	*	*	*	*
Kew. (See front page.) ...	*	*	6.4	*	*	*	*	*	*	*

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

	26th & 27th July, 1916.		
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	4.3	11.59	7.52
Greenwich ...	4.16	12.6	7.53
Wick ...	3.21	12.18	8.45
Valencia ...	4.53	12.47	8.40

## NOTES ON YESTERDAY'S WEATHER.

Afternoon temperature ranged from 55° at Deerness to 79° at Ross. There was much mist or fog. Sunshine varied greatly, from none on the South-East coast to more than 12 hours locally.

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

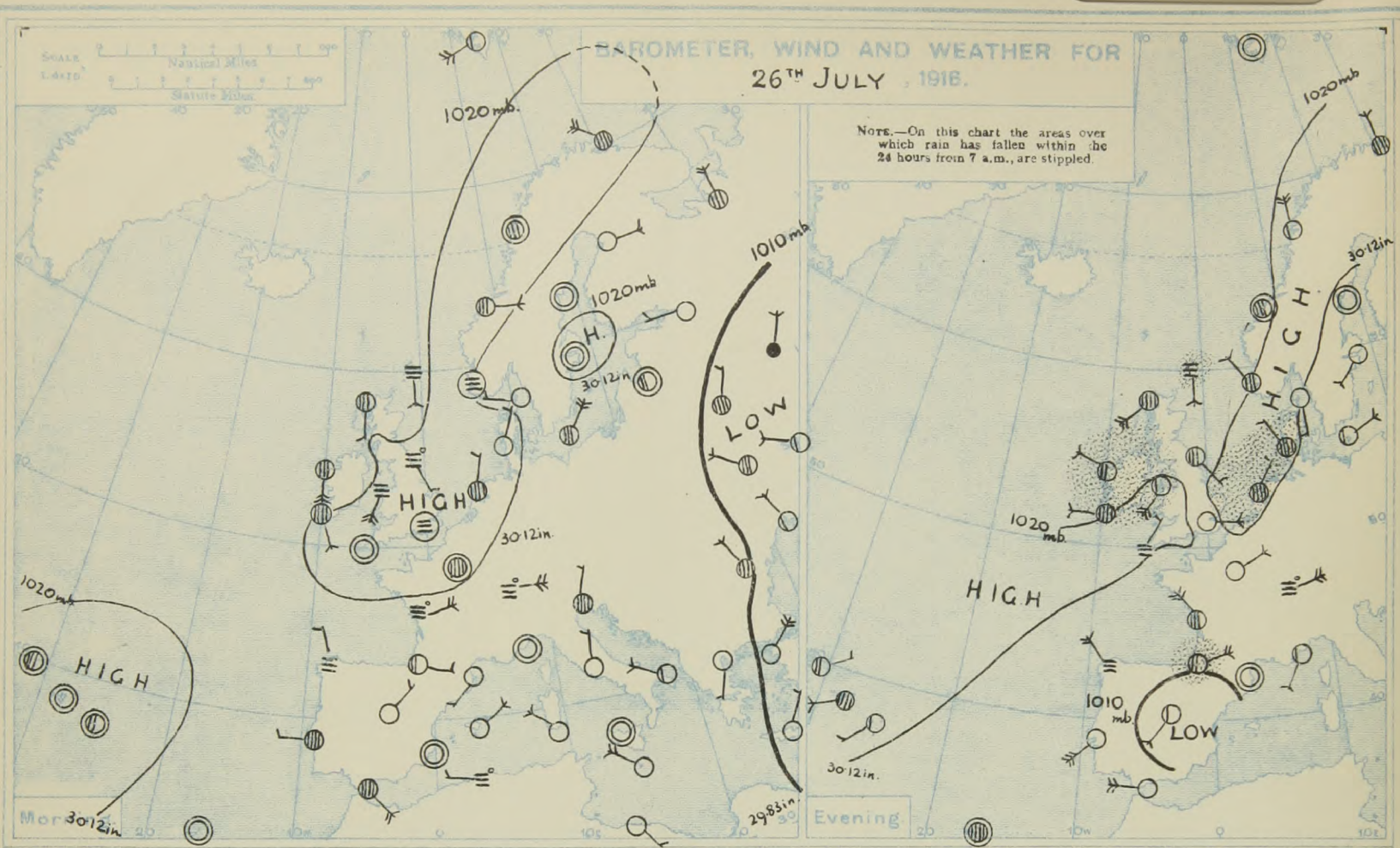
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 209. { Thursday, 27<sup>th</sup> JULY.

STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS						Sun- shine for Yester- day.  Hours.
	Barom. Milli- bars at M.S.L.	TEMP.  °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Dirac. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dirac.	Force 0-12		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dirac.	Force 0-12					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1018.4	56	S	2	f	1017.6	-1	55	+2	-	0	-	m	0	13	56	50	f	f	f	*
	Deerness (Orkney) ...	1017.3	60	SE	1	b	*	*	*	*	*	*	*	*	*	*	*	*	f b c k	b	*	*
	Stornoway ...	1017.4	64	SW	4	o z	1020.0	+2	57	-3	SW	2	-	c	2	-	67	55	f e z	c. o z	o z c	4.3
	Castlebay (Barra Isd.) ...	1017.8	59	ESE	3	omp	1021.3	+2	58	+1	WSW	2	-	b c	2	1	60	53	om	omp	brm. b c	1.5
	Glasgow ...	1018.2	69	W	2	b z	1020.1	+2	60	+2	SW	1	-	om g	*	-	76	57	om. b c b	b z	b. b c. om	9.4
	Esksdalemuir ...	1018.7	68	E	2	b z	1020.7	+1	54	-3	-	0	-	of	*	Trace	73	51	b z	b z	o z. om	9.5
	Malin Head ...	1022.6	63	W	1	bm	1021.3	+2	58	0	N	2	N	b c	2	0.4	68	55	bm	bm	b c	1.5
	Blacksod Point ...	1019.2	59	WNW	2	b c	1023.1	+2	56	-4	WNW	1	-	b c	1	2	62	52	om r	b c	b c	*
	Valencia ...	1019.5	60	W	2	o	1023.1	+2	56	-6	-	0	W	b c w	3	0.3	66	51	o z	o z d	c. o c b c	0.0
	Roche's Point ...	1020.7	66	SW	2	c	1022.7	*	60	-2	NNW	2	NW	b c	2	Trace	68	58	om. o z	o c z	c. b c	*
	Birr Castle ...	1018.5	66	SW	1	m	1022.8	*	58	-3	NW	2	-	c	*	1	70	54	z	c z	d r c	4.1
	Donaghadee ...	1018.2	64	S	2	b c m	1020.7	+2	55	-2	NNW	3	-	om r	2	1	66	55	of	b c f	om r	*
	Liverpool (Bidston) ...	1019.1	60	NW	2	o	1020.6	+4	59	+1	-	0	-	om	1	2	62	57	of	og	T. om	0.0
	Holyhead ...	1020.4	62	SW	4	bm	1020.5	+1	59	0	SW	4	-	bm	3	-	67	56	f. c. b c b	b f. m	b. b c. c	8.6
	Pembroke (St. Ann's) ...	1021.3	64	NW	2	b	1021.0	0	60	0	NW	1	-	b c	-	-	65	57	b	b	b c	12.9
	Scilly (St. Mary's) ...	1020.6	62	NNE	1	f	1021.4	0	60	-1	N	2	N	b c m	2	-	70	57	bm	bm. f	f. b c m	7.3
	Falmouth ...	1019.8	64	SE	2	o	1020.4	+2	62	+1	N	3	-	b z	*	-	68	57	b z b c z	b c z c z	b z	8.0
	Jersey (St. Aubin) ...	1018.5	66	NE	3	b	1019.6	*	60	-1	NE	2	-	om	1	-	71	56	b c m b c	c. b	b. om	10.2
	Portland Bill ...	1020.3	61	SE	1	b	1020.4	+1	58	-2	-	0	-	om	1	-	67	57	b	b	b. om	*
	Dungeness ...	1020.0	61	E	2	c	1019.5	0	56	-1	NNE	2	-	f e	2	-	62	55	o	o. b c	b c. o f e	*
	Dover ...	*	*	*	*	*	1020.1	0	57	+1	NNW	2	-	m	2	0.2	63	54	*	*	o f	1.8
	Wick ...	1016.7	59	SSE	1	m	1018.7	+2	60	+4	-	0	-	m	1	-	63	55	b c m	b c m	b c. om	*
	Nairn ...	1016.5	66	E	1	b l r	1018.6	*	60	-1	-	0	-	om u	1	5	76	56	b c z	b c t l r	T. o	9.8
	Aberdeen ...	1017.9	64	S	4	b z	1019.1	+1	58	-1	-	0	S	b c m	2	-	73	54	b z	b z	b c w m	10.4
	Leith ...	1017.2	66	SE	1	b	1019.2	+1	60	0	W	1	W	b	1	-	74	56	b	b	b. b c b	*
Tynemouth ...	1019.6	59	SE	1	c	1019.6	?	60	+4	SW	1	-	om	2	-	62	56	b c m	b c m	om	*	
Spurn Head ...	1020.4	59	S	3	b c	1021.0	0	56	+3	SSE	2	-	f	4	1	60	52	b c f	f. b c	b c f	7.4	
Yarmouth ...	1020.9	56	ESE	2	of	1020.3	+1	55	+3	-	0	-	f	1	Trace	60	51	b c f	b c f	of	4.1	
Clacton-on-Sea ...	1020.3	61	SE	2	c	1020.3	0	57	+2	NNE	1	-	m	1	-	63	54	og m	og m c	c. om e	2.1	
Nottingham ...	1019.0	74	SE	1	b	1019.9	*	59	+8	E	1	-	bm w	*	-	78	51	m. b	b	b	10.5	
Benson (Oxon.) ...	1018.7	72	SE	2	c	1020.1	+1	58	+6	-	0	-	m	*	-	75	52	b	b c z	b c m	*	
Sth Farnborough ...	1018.6	73	SE	3	b	1019.8	+1	57	+2	-	0	-	of	*	-	76	51	f. b c b	b. b c. b z	b f	9.1	
London (Kew Obsy.) ...	1019.2	73	E	2	b z	1020.0	0	61	+7	-	0	-	om w	*	-	76	53	of om w	b c b c z	b z m w. o	9.7	
NORTHERN EUROPE.	Spitsbergen ...	1018.4	43	-	0	b	1018.7	-1	36	-5	-	0	*	b	*	*	43	36				
	Vardö ...	1023.8	48	N	2	o	1023.8	0	48	0	NW	3	-	c	3	*	50	48				
	Bodö ...	1022.1	57	N	4	b	1019.9	-1	55	+1	-	0	*	b	0	-	55	48				
	Christiansund ...	1019.8	63	-	0	c	1019.7	0	55	-4	NNW	2	-	f	2	-	68	55				
	Skudesnaes ...	1019.8	57	NW	2	c	1020.0	0	54	-1	-	0	-	f	2	-	61	57				
	Færder (Xiania Fjord) ...																					
	The Scaw (Skagen) ...	1019.3	72	-	1	b	1020.8	0	68	0	SW	1	-	b	1	-	73	59				
	Blaavands Huk ...	1020.3	4	NNW	1	o	1020.6	0	66	0	SE	1	E	b c	1	Trace	68	55				
	Copenhagen ...	1019.8	70	-	0	b	1020.8	0	64	0	-	0	-	b	-	-	72	61				
	Bornholm ...	1019.7	61	ENE	2	b	1020.6	0	63	+2	NE	1	-	b	0	-	64	59				
FRANCE, &c.	The Helder ...	1020.3	63	NE	1	o	1019.8	0	57	0	NNE	2	-	f	1	Trace	63	55				
	C. Gris Nez ...	1020.2	58	NE	4	o	1019.4	0	58	+1	NE	4	*	f	3	-	61	55				
	La Hève ...	1017.3	63	NNE	2	m	1017.6	*	59	+1	NE	1	*	m	1	-	66	55				
	Brest (St. Mathieu) ...	1019.7	70	NE	4	b	1020.4	+1	59	-2	NE	3	*	m	2	-	79	55				
	Rochefort (Ile d'Alx) ...	1013.9	75	NW	4	c	1013.9	+2	66	+5	NNE	4	*	e	*	-	91	59				
	Biarritz ...	1016.1	82	ENE	3	b c	1013.6	+3	68	0	WNW	5	*	o	3	3	86	68				
	Paris ...	1016.7	72	ENE	1	b	1017.2	+2	61	+4	NNE	2	-	o	*	-	78	55				
	Belfort ...	1017.1	70	ENE	4	m	1017.5	*	57	+1	E	2	*	m	*	-	73	53				
	Lyons ...	1014.9	76	NNE	2	b	1014.9	*	63	-2	-	0	*	o	*	-	70	59				
	Nice ...	1013.0	72	SW	2	b	1015.4	+2	67	-5	E	4	*	o	2	-	84	63				
Perpignan ...	1012.3	81	-	0	b	1011.3	+1	72	-1	NE	1	-	o	*	-	90	68					
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SOUTHERN STATIONS.	Corunna ...	1014.4	64	NW	3	f	1021.2	+5	61	0	N	1	-	f	1	?	68	59				
	Madrid ...	1006.1	93	SW	2	b	1015.8	+4	64	-11	SW	2	-	b	*	-	95	59				
	Lisbon ...	1015.0	70	SW	5	b	1018.6	+1	66	+2	NW	1	-	o	2	-	72	64				
	Azores ...	1023.1	*	WSW	2	o	1025.0	0	68	+1	-	0	*	o	0	-	79	68				
	Madeira ...	1018.9	73	-	0	o	1021.1	0	66	0	N	1	-	b c	1	-	73	66				
	Gibraltar ...	1017.5	70	W	4	b	1017.3	*	67	-3	NW	5	*	b	3	-	81	66				
	Malta ...	*	*	*	*	*	1015.1	+3	79	+2	NNE	2	-	b	1	-	84	73				
	Limassol ...	*	*	*	*	*	1006.1	+2	84	-9	W	2	-	b	0	-	97	59				
	Alexandria ...	1009.5	79	WNW	3	b	1010.6	+1	79	-2	WNW	2	NW	b c	1	-	88	75				
	Cairo (Helwan) ...	1007.8	88	N	4	b	1010.0	+2	81	+6	NE	2	-	b	*	-	97	76				
YESTERDAY'S REPORTS		2.5 h. 20 h. a.m.					2.5 h. 7 h. a.m.															
MEDITERRANEAN.	Venice ...	1011.3																				





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

**FORECAST DISTRICTS.**

**STORM WARNINGS.**  
The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.		Signals hoisted this morning.	
South Coast.	↖	South Coast.	↙
North Coast.	↗	North Coast.	↘

No Warnings Issued.

Western Channel and Bay 11

0 { a  
b

1 {

2 { a  
b

3 {

4 { a  
b

5 {

6 { a  
b

7 { a  
b

8 { a  
b

9 { a  
b

10 { a  
b

Calms and light variable breezes; morning mist or fog, fair to fine periods, local thunderstorms; warm and close generally.

Light to moderate Northerly to North-Easterly breeze; sea moderate; fine to cloudy, some mist or fog; moderate temperature.

Millib. Inches

1050—31

1040—

1030—

1020—

30

1010—

1000—

990—

29

980—

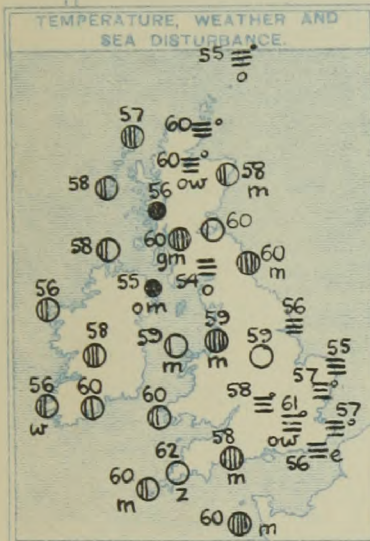
970—



# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 27<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

Very slight pressure irregularities tend to the development of thunderstorm conditions.



## 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 1/2 clouded. ○ sky 3/4 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

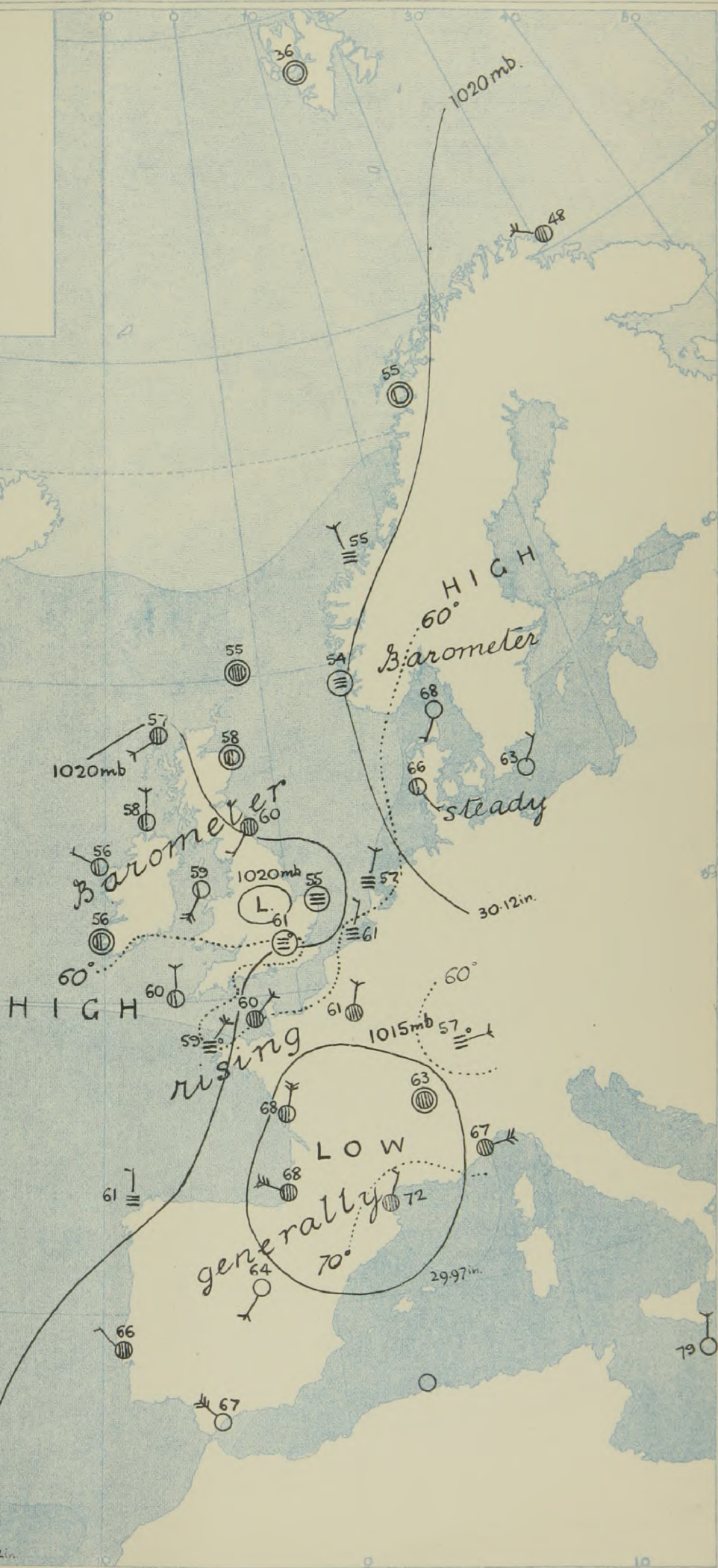
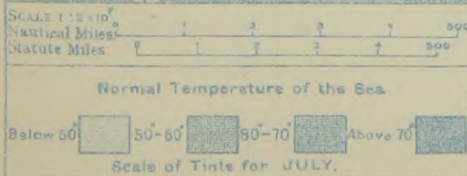
⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~.

inches.  
—31

30

29





REPORTS  FROM RUSSIA  FOR  YESTERDAY.	STATIONS.	25 <sup>th</sup> AT 9 P.M. LOCAL TIME					26 <sup>th</sup> AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
				Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.								
Archangel ...	10153	63	WNW	1	bc.	10159	0	59	0	N	3	*	c	*	53					
Gorki ...	10092	57	N	2	o	10097	0	59	+4	NNE	1	*	o	*	55					
Veliki Luki ...	10130	59	-	0	o	10147	*	57	+2	W	2	*	o	*	54					
Hango ...	10177	68	WSW	2	o	10183	0	66	+2	WNW	2	*	o	*	57					
Riga ...	10162	66	NE	1	bc	10167	0	68	+2	-	0	*	bc	*	57					
Petrograd ...	10150	66	N	1	o	10150	0	66	+3	W	1	-	o	*	59					
Moscow ...	10115	57	N	2	7	10115	0	57	+2	NNE	2	*	7	*	55					
Kiev ...	10103	63	N	3	o	10119	+1	57	-4	NW	2	*	c	*	55					
Kharkov ...	10084	63	-	0	o	10100	+1	63	-1	WNW	2	*	o	*	55					
Kishinev ...	10118	70	W	2	o	10123	+2	64	0	NW	2	*	o	*	61					
Elisabetgrad ...	10097	66	NW	1	o	10109	+1	64	0	N	2	*	bc	*	57					
Nicolaiev ...	10082	73	-	0	c	10103	*	66	+3	-	0	*	o	*	63					
Odessa ...	10110	73	N	1	c	10118	0	68	+2	WNW	2	*	o	*	64					
Tarkhankout ...	10117	72	W	1	o	10109	?	72	0	W	1	*	o	*	56					
Soukhom ...	10118	72	NNE	1	o	10097	0	75	0	-	0	*	o	*	64					

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for 25 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 25 <sup>th</sup>	STATIONS.	Sun- shine for 25 <sup>th</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine for 25 <sup>th</sup>
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
(Oban ...	9.1	-	-	66	57	o	bc.	2.2	(Lowestoft ...	1.0	-	-	59	51	o.c.	c.o.	4.5
(Banff ...	6.2	-	-	71	54	b	b	11.1	(Felixstowe ...	0.0	-	-	64	52	om.bc	bc.	3.6
(Carnoustie ...	*	-	-	67	60	b	b	9.4	(Walton-on-Naze ...	0.0	-	-	62	52	o.c.m.bc	bc.	3.3
(St. Andrews ...	3.4	-	-	78	50	b	b	9.8	(Southend-on-Sea ...	0.3	-	-	66	56	o	o.c.bc.b	2.6
Eng. N.E.									England, S.E.								
(Harrogate ...	11.2	-	-	77	51	bc.b	b.bc.c	8.0	(Margate ...	0.0	-	-	62	55	o	bc	1.6
(Skegness ...	0.9	-	-	59	50	m.bc	bcm	8.0	(Ramsgate ...	0.0	-	-	61	55	o	o.bc.o	1.5
Eng. N.W.									(Hastings ...	0.3	-	-	62	56	o	o.bc.b	0.4
(Morecambe ...	10.3	-	-	65	57			0.0	(Eastbourne ...	2.1	-	-	63	57	o.c	o.bcf	0.1
(Blackpool ...		-	-						(Seaford ...	4.0	-	-	67	56	o	c	2.4
(Southport ...	7.2	-	-	62	56	om	o	0.0	(Brighton ...	4.4	-	-	62	58	o.c	c.bc	2.8
Midlands.									(Worthing ...	5.8	-	-	65	56	o	b	4.7
(Buxton ...		-	-						(Littlehampton ...	5.8	-	-	65	56	o	b	5.2
(Leamington Spa ...	?	-	-	76	51	b	b	?	(Bognor ...		-	-					
(Malvern ...	13.7	-	-	77	56	b	b	12.2	(Bournemouth ...	*	-	-	71	51	w.c.b	b	9.0
(Ross-on-Wye ...	11.9	-	-	78	52	f.bc.b	b	8.7	England, S.W.								
Wales.									(Weymouth ...	*	-	-	71	58	3.bc.b	b3	11.0
(Rhyl ...	5.0	-	-	65	56	3	bc	0.0	(Torquay ...	9.7	-	-	67	57	bc.b	b	8.1
(Colwyn Bay ...	*	-	-	63	57	bc	bc	3.2	(Paignton ...		-	-					
(Llandudno ...	*	-	-	65	56	m.b	b	3.8	(Penzance ...	8.0	-	-	72	55	b.bc	bc.og	6.5
(Aberystwyth ...	*	-	-	65	55	o.c.o	o.c	1.0	(Newquay ...	9.6	-	-	65	60	b	b	5.5
(Tenby ...	4.9	-	-	77	?	b	b	11.2	(Bude ...	7.8	-	-	69	53	b	b	7.5
									(Ilfracombe ...	*	-	-	65	52	3.b	b	10.3
									(Weston-s-Mare ...	13.7	-	-	76	58	m.b	b.m	7.6

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total. 1573 joules.	Average Rate. 279 Milliwatts.	Max. Rate. 62 Milliwatts.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.						
				Max.	Min.											
24 HOURS ENDED 9 h. TO-DAY											Hours of Observation G.M.T.					
%	%	Hr.	F.	F.	F.	mm. §					Morning.	Evening.		Morning.	Evening.	
Greenwich (Royal Obs.) ...	63	84	8.8	72	54	44	-	b	b	b c b.						
City (Bunhill Row) ...	*	*	8.0	*	*	*	*	*	*	*						
Westminster (St. James's Pk.)	64	77	9.0	73	58	54	-	u. bc	m b	om o	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	60	73	7.9	77	58	56	-	z. b	b	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	80	10.4	71	55	44	-	b	b	b cm.	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	78	8.5	73	59	54	-	o2. b	bc. b	b om.	Denmark ...	6	17	Azores ...	8	17
Richmond Park	*	*	9.5	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*	9.7	*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)																

## NOTES ON YESTERDAY'S WEATHER.

Maximum temperature ranged from 56° at Lerwick and 59° at Lowestoft and Skegness to between 75° and 79° at several stations. There was much mist or fog. Sunshine was again very variable.

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

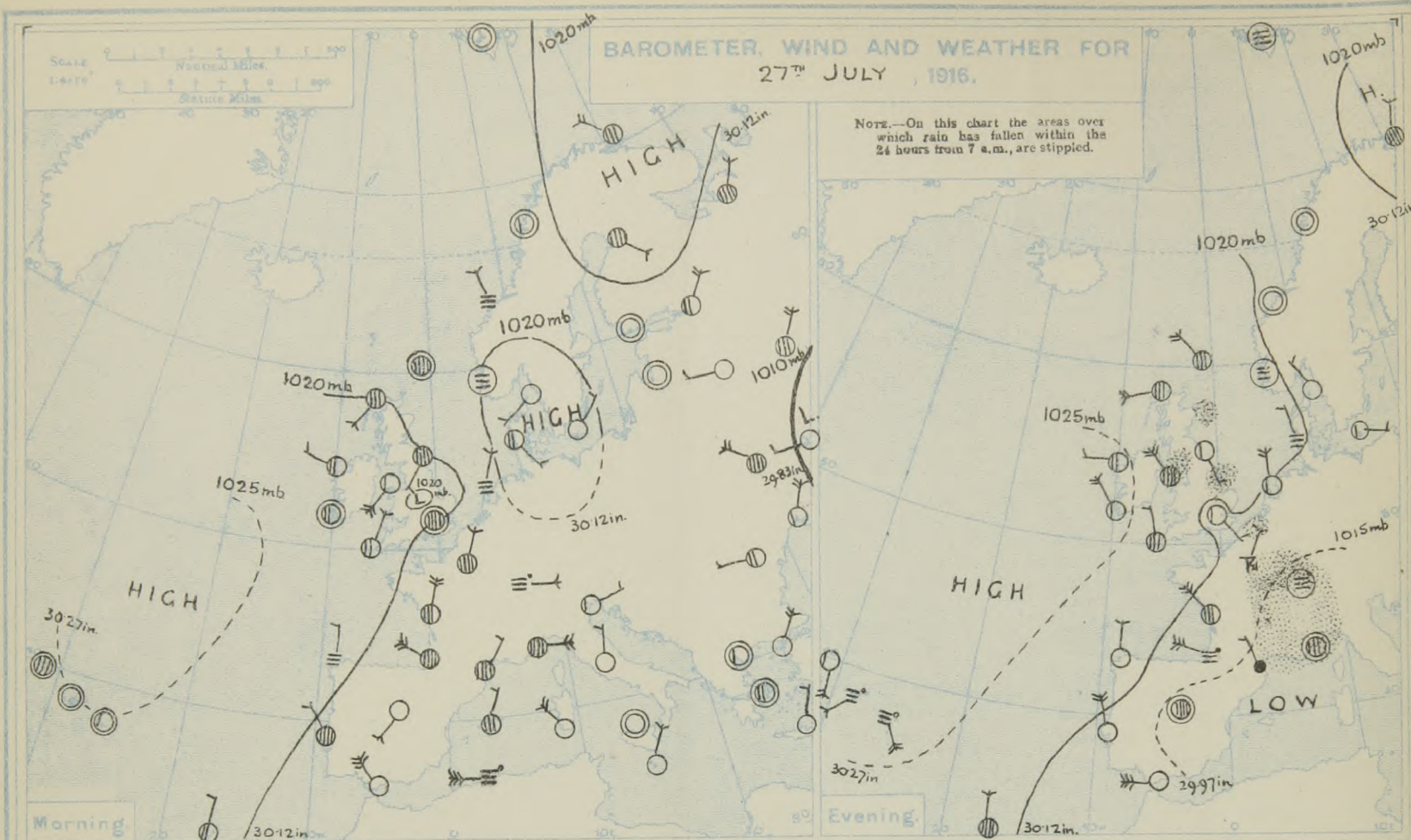
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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 210. Friday, 20th JULY.

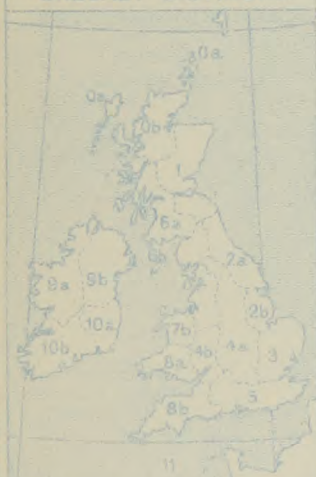
STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1021.1	59	NW	3	c	1021.4	+1	56	+1	SW	3	SW	bc	3	-	65	52	bc	bc	c. bc	*
	Deerness (Orkney) ...	1021.7	60	WNW	3	bc	1023.0	*	54	-5	?	3	W	o	1	-	63	54	cm. o	o. c. bc	bc. o	3.2
	Stornoway ...	1022.1	58	WSW	3	c	1022.9	0	56	-1	SW	3	-	o	3	-	64	54	c	c	c. o	7.0
	Castlebay (Barra Isd.) ...	1023.5	59	WSW	4	c	1024.9	0	57	-1	SW	3	W	om	3	-	61	56	bc. b	bc	c. om	10.5
	Glasgow ...	1022.0	64	W	3	b	1025.9	+3	54	-6	W	1	NW	bc	*	-	68	47	om. cz	c. bc. bz	bz. bz	3.8
	Esksdalemuir ...	1021.2	66	NW	3	b	1025.8	+2	53	-1	-	0	NW	bcw	*	-	72	43	of. om	bc. b	b. bcw	8.8
	Malin Head ...	1023.9	59	NNW	3	bc	1026.0	+1	57	-1	W	3	NW	c	2	-	63	53	bc	bc	c	10.5
	Blacksod Point ...	1025.6	59	W	1	bc	1027.7	+2	58	+2	SSW	3	SW	cg	3	-	62	54	bc	bc	bc. cz	*
	Valencia ...	1025.7	64	NW	3	b	1029.2	+1	55	-1	-	0	NNW	o	3	-	57	49	bc. c	bc	b. bc. o	11.3
	Roche's Point ...	1024.7	66	NNW	2	b	1028.7	*	58	-2	N	1	-	b	1	-	70	56	bc	bc. b	b	*
	Birr Castle ...	1024.7	64	WNW	2	c	1029.1	*	53	-5	W	1	W	b	*	-	68	46	c	c	b	9.5
	Donaghadee ...	1023.6	59	N	4	bc	1026.9	+2	54	-1	W	3	-	bc. m	2	1	61	50	bc. m	bc	bc. m	*
	Liverpool (Bidston) ...	1022.5	63	WNW	2	b	1026.4	+2	59	0	WNW	3	-	b	2	-	68	57	bm	b	b	12.4
	Holyhead ...	1023.1	59	NNW	4	og	1026.9	+2	56	-3	N	2	-	bz	1	-	64	54	bf. c. bc	c. ob. o. c	o. c. b	7.6
	Pembroke (St. Ann's) ...	1022.9	62	N	4	bc	1026.6	+2	59	-1	N	3	-	b	1	-	71	54	bc	bc	bc	12.8
	Scilly (St. Mary's) ...	1023.8	66	NNW	1	c	1026.8	+2	62	+2	N	1	N	c	3	-	70	57	b. bc. m	bc. m	bc. c	11.7
	Falmouth ...	1022.4	68	N	4	bz	1025.5	+2	62	0	NNW	3	-	b	*	-	74	58	bz	bz	b	12.1
	Jersey (St. Aubin) ...	1024.4	62	NW	3	b	1023.4	*	61	+1	-	0	-	f	0	-	67	55	om. o	o. c. b	bm. f	4.2
	Portland Bill ...	1020.8	62	W	2	bc. m	1023.7	+2	62	+4	NNE	3	-	b	2	-	63	56	o	bc. m	c. b	*
	Dungeness ...	1019.8	61	NE	2	b	1023.2	+3	60	+4	NNE	2	-	b	2	-	66	52	of. bc	bc. b	bc. b	*
	Dover ...	*	*	*	*	*	1023.8	+3	58	+1	NW	2	NW	m	2	-	67	53	f. o. c. bc	c. o	om. w	1.3
	Wick ...	1021.7	60	NNW	2	c	1023.6	+1	55	-5	S	2	-	o	1	-	62	49	og. m	og. m. c	om	*
	Nairn ...	1021.3	65	E	2	CZ	1024.3	*	55	-5	-	0	-	c	1	-	67	51	cu	bc. cu	cu	5.3
Aberdeen ...	1021.7	62	NNE	3	o	1024.4	+1	58	0	-	0	-	oz	1	1	69	56	bc. bz	bz. d. Tp	oz	6.0	
Leith ...	1020.8	70	W	2	bc	1026.2	+2	55	-5	W	2	W	bc	2	-	72	51	b	b	bc. b. bc	*	
Tynemouth ...	1020.2	66	SSE	1	bm	1024.5	?	55	-5	N	1	-	f	2	-	67	54	om	cm	f	0.0	
Spurn Head ...	1021.4	56	SE	3	f	1024.7	+1	56	0	SSE	1	-	f	2	0.1	60	53	f	f	f	0.0	
Yarmouth ...	1021.0	57	NE	1	f	1024.3	+2	55	0	NE	1	-	f	1	-	61	52	f	f	f	0.0	
Clacton-on-Sea ...	1020.3	60	ENE	3	m	1023.9	+2	56	-1	NW	1	N	m	0	-	65	52	ome	om. bc. m	mf. om	1.9	
Nottingham ...	1020.5	68	E	1	o	1024.5	*	59	0	SW	1	W	om	*	2	78	54	bc. l	o. c. p	o	5.5	
Benson (Oxon.) ...	1019.3	79	NE	1	bc	1024.8	+3	58	0	-	0	-	m	*	-	81	52	b	bc. l	bc. m	*	
Sth Farnborough ...	1019.7	74	E	1	bc	1023.7	+2	59	+2	NW	1	-	bf. w	*	-	79	53	f. b. bc	bc	bc. bf. w	7.8	
London (Kew Obs.) ...	1019.8	73	SE	1	bz	1024.0	+2	60	-1	-	0	-	fw	*	-	78	56	om. w. bc. z	bc. z. bz	bz. c. fw	7.3	
NORTHERN EUROPE.	Spitsbergen ...	1016.6	37	-	0	f	1014.9	0	39	+3	-	0	*	f	*	-	39	36	UPPER AIR.			
	Vardö ...	1022.9	46	NNE	2	o	1019.9	-3	48	0	SE	2	-	o	2	*	50	45	South Farnborough.			
	Bodö ...	1018.6	59	-	0	b	1018.1	0	59	+4	-	0	-	b	1	-	59	52	Pilot Balloon Ascent at 6.30.			
	Christiansund ...	1019.4	64	-	0	b	1020.3	+3	59	+4	WNW	4	-	o	3	-	66	37	WIND AT:-			
	Skudesnaes ...	1021.1	55	-	0	f	1021.5	0	55	+1	N	1	-	f	1	-	57	48	2100 metres N 7 m.p.s.			
	Færder (Xiania Fjord) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	1800 " N 6 "			
	The Scau (Skagen) ...	1019.9	72	NW	1	b	1020.6	0	66	-2	W	2	-	b	2	-	73	59	1500 " N 5 "			
	Blaavands Huk ...	1021.2	64	NNW	1	f	1022.3	+1	64	-2	N	1	-	b	1	-	70	59	1200 " N 4 "			
	Copenhagen ...	1019.9	73	WSW	2	b	1020.8	0	68	+4	N	2	-	b	*	-	77	63	900 " NNE 3 "			
	Bornholm ...	1020.4	70	ESE	1	b	1020.2	0	64	+1	N	2	-	m	0	-	70	61	600 " NNE 3 "			
FRANCE, &c.	The Helder ...	1019.9	64	N	3	b	1021.9	+2	61	+4	N	3	NE	bc	1	-	68	55	300 " NNE 5 "			
	C. Gris Nez ...	1020.2	58	NE	3	m	1022.7	+3	57	-1	NE	4	*	f	3	Trace	63	50	Surface NW by N 1 "			
	La Hève ...	1019.0	59	NNE	3	f	1021.9	*	57	-2	NNW	3	*	f	2	-	66	55				
	Brest (St. Mathieu) ...	1023.0	62	NW	4	m	1025.2	+2	60	+1	N	3	*	m	2	-	72	57				
	Rochefort (Ile d'Aix) ...	1016.0	71	NW	4	c	1022.1	+3	62	-4	NNE	4	*	m	*	-	79	59				
	Biarritz ...	1018.9	70	WNW	4	m	1022.9	+1	66	-2	WNW	5	*	m	4	-	70	64				
	Paris ...	1017.0	64	N	2	o	1021.6	+3	63	+2	N	2	-	o	*	8	61	GALES.				
Belfort ...	1014.6	72	-	0	m	1018.3	*	59	+2	-	0	*	o	*	1	77	58	Duration and Extreme Force				
Lyons ...	1014.6	70	-	0	o	1017.1	*	61	-2	N	2	*	c	*	2	74	59	in British Islands.				
Nice ...	1014.9	71	-	0	c	1011.8	0	73	+6	-	0	*	b	2	28	82	66					
Perpignan ...	1014.4	66	NW	1	r	1016.4	0	72	0	NW	5	-	b	*	23	79	64					
Sanguinaire ...	*	72	N	3	o	*	*	76	-1	W	3	*	m	3	-	77	66					
SOUTHERN STATIONS.	Corunna ...	1023.9	66	N	2	b	1027.9	+3	66	+5	NNE	1	-	m	1	-	66	61				
	Madrid ...	1014.6	77	-	0	o	1022.7	+2	64	0	E	1	-	b	*	-	85	55				
	Lisbon ...	1019.0	75	NNW	4	b	1020.3	+1	70	+4	NNW	4	-	b	2	-	81	61				
	Azores ...	1026.3	*	SW	2	m	1028.7	+2	66	-2	-	0	*	m	1	-	82	66				
	Madeira ...	1020.8	73	N	2	o	1022.4	0	66	0	NE	2	S	bc	2	-	73	66				
	Gibraltar ...	1017.6	71	W	6	b	1018.3	*	70	+3	NW	5	*	b	2	-	80	66				
	Malta ...	*	*	*	*	*	1013.9	+3	79	0	SW	3	NW	b	1	-	86	73				
	Limassol ...	*	*	*	*	*	1005.1	+1	81	-3	W	1	-	b	0	-	93	66				
	Alexandria ...	1009.9	79	NW	3	b	1010.3	+1	81	+2	WNW	3	NW	bc	2	-	88	75				
	Cairo (Helwan) ...	1008.2	88	N	4	b	1009.3	+2	77	-4	N	2	-	b	*	-	97	70				
YESTERDAY'S REPORTS																						
26th 20 h. G.M.T.																						
MEDITERRANEAN.	Venice ...	1014.7	73	-	0	b	1015.7	*	70	+4	NNE	1	NW	b	3	-	77	68				
	Pesaro ...	1014.4	72	-	0	b	1015.9	*	70	0	-	0	W	b	2	-	79	63				
	Rome ...	1013.6	77	W	1	b	1014.9	*	73	0	N	1	-	b	*	-	90	66				
	Viesti ...	1013.4	73	NW	2	b	1014.4	*	75	0	W	1	-	b	3	-	81	70				
	Brindisi ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*				
	Cagliari ...	1012.6	82	SE	4	b	1013.2	*	79	+2	NNW	3	NE	b	0	-	84	61				
	Palermo ...	1014.7	79	-	0	b	1015.4	*	79	0	-	0	-	b	0	-	88	64				
	Tripoli ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*				
Algiers ...	1011.8	77	-	0	b	1013.1	+2	77	+2	W	6	-	m	2	-	81	73					





### FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

Signals hoisted yesterday.

South Coast.  
North Coast.

Signals hoisted this morning.

South Coast.  
North Coast.

No Warnings Issued.

Western Channel and Bay 11

0 } cloudy, some showers and mist; moderate temperature.

1 }  
2 }  
3 }  
4 } Calms and light variable Northerly to Westerly  
5 } breezes; fine generally, morning mist; temperature  
6 } moderate to warm.  
7 }  
8 }  
9 }  
10 }

11 } Light to moderate Northerly breeze; sea moderate;  
fine, some mist or fog; moderate temperature.

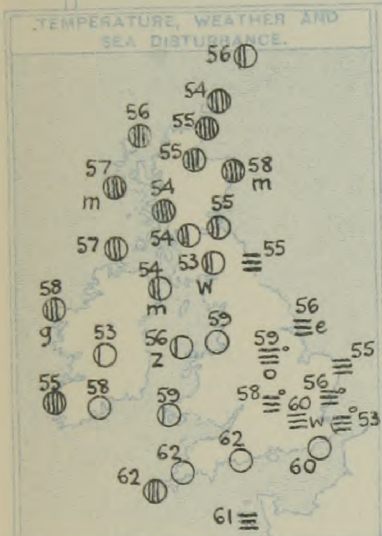
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 28<sup>TH</sup> JULY, 1916.

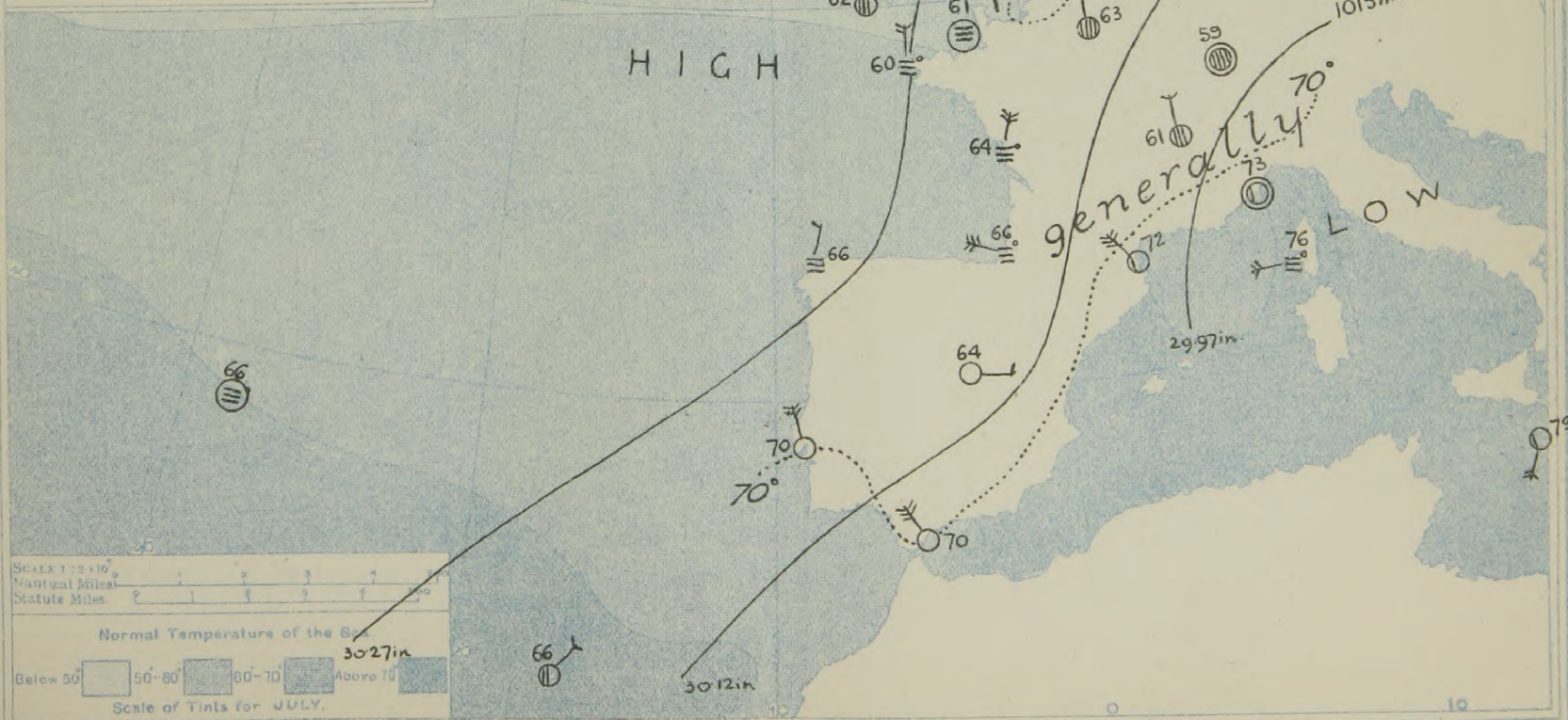
GENERAL INFERENCE.

Anticyclonic fine  
weather prevailing.



## 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 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 3/4 clouded, ○ overcast sky ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
 ⚡, thunderstorm.  
**SEA DISTURBANCE.**—Rough. High.





REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	26 <sup>th</sup> AT 9 P.M. LOCAL TIME					27 <sup>th</sup> AT 7 A.M. LOCAL TIME									
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND. Direc.	Force 0-12.	Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND. Direc.	Force 0-12.	Dirac. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.
Archangel ...	1020.7	50	N	3	0	1019.7	+	48	-1	NNE	2	*	0	*	?
Gorki ...	1011.5	59	.	0	0	.	.	.	.	.	.	*	.	*	.
Veliki Luki ...	.	.	.	.	.	1014.4	+	59	+2	W	1	*	0	*	.
Hangö ...	1017.6	73	NNW	2	bc	1018.3	0	68	+2	.	0	*	0	*	.
Riga ...	1016.0	68	.	0	c	1016.6	0	73	+5	.	0	*	0	*	.
Petrograd ...	1015.7	70	NE	2	b	1018.7	+2	61	-5	NE	3	E	0	*	7.9
Moscow ...	1010.1	59	NNE	2	T	1011.3	+	59	+2	NE	3	*	c	*	6
Kiev ...	1012.2	63	NW	2	0	1012.6	0	63	+6	NW	3	*	0	*	.
Kharkov ...	1010.4	61	W	1	bc	1010.6	?	73	+10	NW	2	*	0	*	.
Kishinev ...	1012.6	68	W	2	bc	1013.5	+1	64	0	NW	2	*	0	*	.
Elisabetgrad ...	1011.5	66	N	2	b	1012.0	0	63	-1	WNW	2	*	0	*	.
Nicolaiev ...	1004.6	73	N	2	c	1011.7	*	66	+2	NNE	2	*	0	*	.
Odessa ...	1010.7	73	NNW	2	b	1011.7	+2	68	+2	NE	3	*	0	*	.
Tarkhankout ...	1010.7	72	NW	2	0	1010.6	?	73	+5	NW	2	*	0	*	.
Soukhoum ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

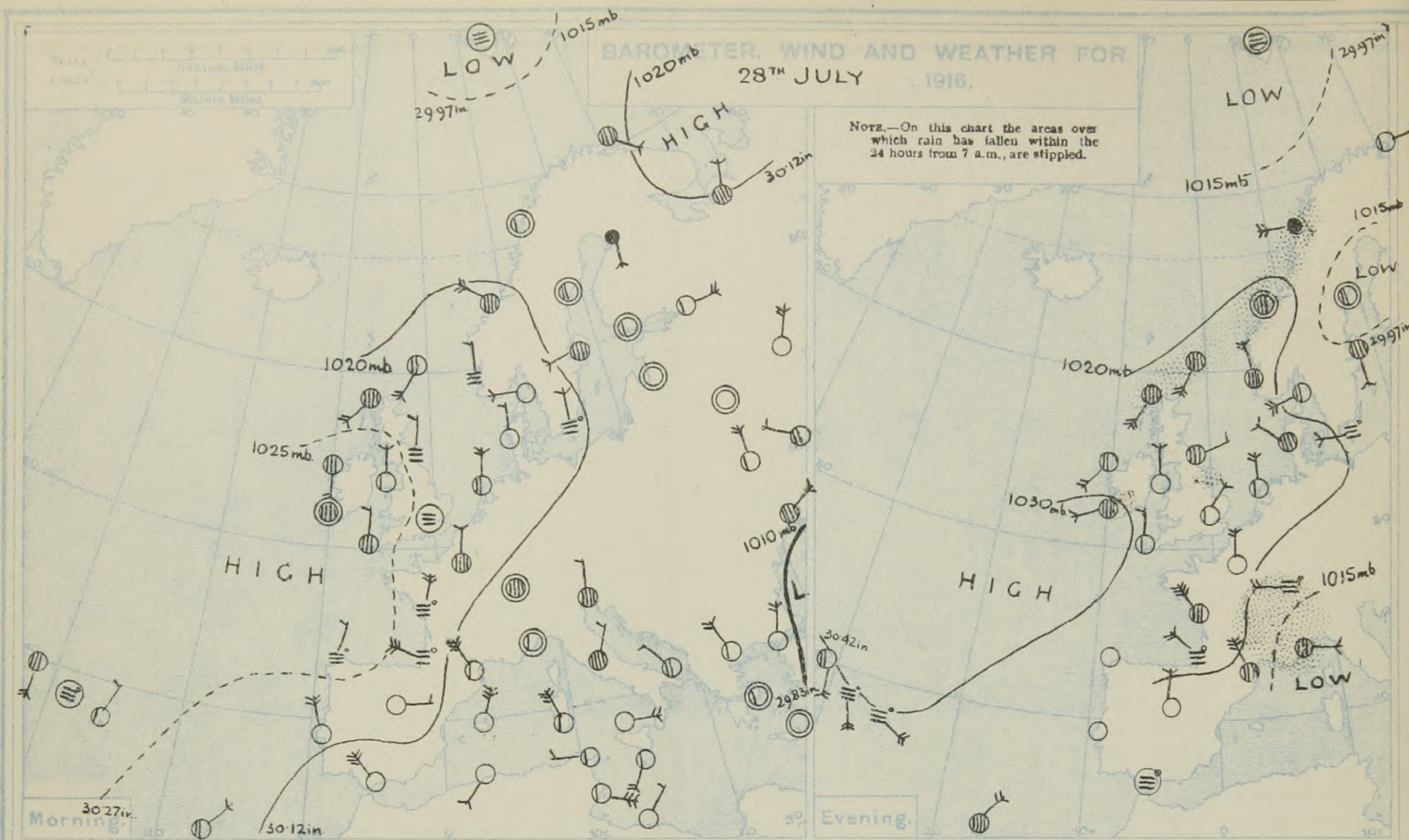
STATIONS.	Sun- shine for 24 <sup>h</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 <sup>h</sup> .	STATIONS.	Sun- shine to 24 <sup>h</sup>	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 <sup>h</sup> .		
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.			
		Mm.	Mm.	° F.	° F.			Hr.			Mm.	Mm.	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	2.2	-	1	64	56	0	bc.	3.9	England, E.	{ Lowestoft ... ..	4.5	0.1	-	59	53	of f.c.	f	0.0
	{ Banff ... ..	12.3	-	-	66	51	bc	bcp	4.3		{ Felixstowe ... ..	3.6	-	-	64	54	f.c.	of	0.1
	{ Carnoustie ... ..	4	-	-	76	?	-	-	10.1		{ Walton-on-Naze ... ..	0.2	Trace	-	65	55	o.c.m.	c.b.b.c.f	0.3
	{ St. Andrews ... ..	11.1	-	-	77	51	b	b	9.9		{ Southend-on-Sea ... ..	4.6	-	-	66	55	o	o.c.b.c.	2.4
Eng. N.E.	{ Harrogate ... ..	8.0	-	-	75	53	bc, b	b, bc, c	7.5	England, S.E.	{ Margate ... ..	1.6	-	-	62	54	om.	o	5.4
	{ Skegness ... ..	8.9	-	-	65	54	b	bm	9.0		{ Ramsgate ... ..	1.5	-	-	62	54	z.o	o	0.0
Eng. N.W.	{ Morecambe ... ..	0.0	1	-	71	55			7.5	England, S.W.	{ Hastings ... ..	1.8	-	-	70	54	o, bc, b	b, bc.	6.7
	{ Blackpool ... ..								{ Eastbourne ... ..		1.8	-	-	66	56	o, bc	bc, b	7.4	
	{ Southport ... ..	0.0	3	-	67	53	bc, c, b	b	9.8		{ Seaford ... ..	3.0	-	-	71	55	o	bm	7.4
											{ Brighton ... ..								
Midlands.	{ Buxton ... ..		-	-	74	52	bc	bc	8.0	England, S.W.	{ Worthing ... ..	4.4	-	-	73	57	b	b.	10.6
	{ Leamington Spa ... ..	*	-	0.3	79	54	bc	b, bctr	9.2		{ Littlehampton ... ..	6.9	-	-	69	55	o, b	b	8.2
	{ Malvern ... ..								{ Bognor ... ..										
	{ Ross-on-Wye ... ..	9.1	-	-	80	50	b, bz	b	8.5		{ Bournemouth ... ..	*	-	-	78	54	o, bet	o	6.0
Wales.	{ Rhyl ... ..	0.0	-	-	67	56	bc	bc, c, o	8.5	England, S.W.	{ Weymouth ... ..	*	-	-	71	55	z, o, c, bc	bet, z	2.0
	{ Colwyn Bay ... ..	*	-	-	66	55	bc	c	7.8		{ Torquay ... ..	10.1	-	-	77	56	z, bcm, b	b, z	8.5
	{ Llandudno ... ..	*	-	-	69	56	b	b	8.0		{ Paignton ... ..								
	{ Aberystwyth ... ..	*	-	-	67	56	o, c, b	bc, c	7.0		{ Penzance ... ..	6.5	-	-	73	59	b, bc	bc, c	10.0
	{ Tenby ... ..	13.1	-	-	76	63	bc	bc	9.6	{ Newquay ... ..	8.0	-	-	69	59	b	b	9.5	
										{ Bude ... ..	9.4	-	-	70	50	b	b	9.5	
										{ Ilfracombe ... ..	*	-	-	67	52	b	b	9.1	
										{ Weston-s-Mare ... ..	9.1	-	2	69	55	b, bc, b	b, bc.	6.5	



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 211. { Saturday 29<sup>th</sup> JULY.

STATIONS.	YESTERDAY EVENING.					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	1022.4	56	SW	4	o	1016.6	-3	55	-1	WSW	5	-	om	5	4	58	51	o	o	omp	*
Deerness (Orkney) ...	1023.3	55	S	1	o	1018.3	-1	60	+6	S	3	NW	c	3	Trace	59	53	o	o	o.c	0.0
Stornoway ...	1023.3	60	SW	4	o	1019.3	-1	60	+4	SW	6	-	og	5	5	63	54	op	op	c.og	0.4
Castletbay(BarraIsd.) ...	1025.6	59	SW	4	c	1023.2	0	58	+1	SW	5	-	rm	5	1	61	56	o.cm	cm	c.og	4.2
Glasgow ...	1026.9	60	W	3	c	1027.2	+1	57	+3	WSW	1	-	c	*	-	64	51	bc.oz	c	bc.oz	8.6
Eskdalemuir ...	1026.7	61	WNW	2	bc	1028.1	+1	56	+3	SW	3	N	bcw	*	-	67	56	bcw.v	bc	bc.b.c	13.1
Malin Head ...	1027.4	63	W	4	bc	1026.5	0	58	+1	SW	4	W	c	*	-	64	54	cq	bc	c	5.9
Blackrod Point ...	1028.9	61	SW	3	bc	1028.4	+1	60	+2	SSW	5	-	omg	3	-	65	56	bc	bc	bc.cm	*
Valencia ...	1030.9	62	WSW	2	o	1032.1	+1	56	+1	NE	2	N	c	3	-	67	49	o.c	c.o	o.c.b.c	2.5
ROCHE'S POINT.																					
Roches Point ...	1030.7	63	SW	2	bc	1032.2	*	57	-1	W	1	-	b	1	Trace	71	53	b.b.c	bc	bc.b	*
Birr Castle ...	1029.0	64	W	1	c	1032.1	*	59	+6	W	2	-	b	*	-	67	49	c	c	b	5.4
Donaghadee ...	1028.1	60	SE	2	cm	1028.6	+1	57	+3	SW	3	-	bc.m	2	-	65	50	cm	cm	c.m.b.m	*
Liverpool (Bidston) ...	1028.2	62	WNW	3	b	1029.2	0	59	0	WSW	2	-	b	2	-	64	54	b	b	b	14.2
Holyhead ...	1029.2	64	N	2	bz	1030.0	0	58	+2	NW	5	NW	bc	4	-	65	55	b.b.c	bz	b.o.c.b.c	13.8
Pembroke(St. Ann's) ...	1028.5	65	N	3	b	1030.9	+1	60	+1	NE	2	N	c	1	-	69	53	b	b	b.b.c	14.4
SCILLY (St. Mary's).																					
Scilly (St. Mary's) ...	1029.1	65	N	1	b	1031.3	+1	60	-2	N	1	-	bm	2	-	70	56	bc.b	b	b.b.m	12.7
Falmouth ...	1028.0	66	NNW	4	b	1029.8	+1	62	0	N	5	-	b	*	-	73	55	bq	bq.b	b	13.2
Jersey (St. Aubin) ...	1025.4	70	NNW	2	b	1027.6	*	64	+3	NNE	3	-	bm	2	-	74	60	f.b.m.f	f.b	bm	9.2
Portland Bill ...	1026.0	72	NW	2	bc	1028.5	+1	65	+3	NE	2	-	b	2	-	74	60	b	b.b.c	bc.b	*
Dungeness ...	1025.1	62	-	0	bc	1027.6	+1	58	-2	E	1	-	f	1	-	69	53	bc.f	f.b.c	bc.f	*
Dover ...	*	*	*	*	*	1027.7	+2	61	+3	NW	2	-	f	2	-	76	52	*	*	bm	11.2
WICK.																					
Wick ...	1023.0	57	SSW	2	o	1019.1	+1	57	+2	SSW	3	-	c	0	-	64	54	om	o	o.c	*
Nairn ...	1024.2	63	WSW	3	c	1021.4	*	62	+7	W	4	-	cm	3	-	67	54	og	og	cq	2.6
Aberdeen ...	1024.6	58	ESE	2	o	1022.7	-1	61	+3	S	1	NW	b	1	-	66	51	oz	o	o.b.c.b	1.4
Leith ...	1025.5	65	W	2	b	1026.4	0	58	+3	W	3	W	bc	2	-	67	54	bc.c.b.c	b	b.b.c	*
Tynemouth ...	1025.9	62	ENE	1	cm	1027.3	?	57	+2	W	2	W	bc.m	2	-	67	53	f	cm	bc.m	0.0
Spurn Head ...	1026.3	59	ENE	3	f	1028.8	+1	57	+1	NW	3	-	bc.m	3	0.3	62	53	f	c.f.e	f	*
YARMOUTH.																					
Yarmouth ...	1026.1	59	NE	2	f	1028.6	+1	54	-1	NNE	2	-	f	1	-	64	52	f	f.b.c.f	f	2.5
Clacton-on-Sea ...	1025.3	62	ESE	2	c	1027.9	+1	57	+1	-	0	-	f	0	-	66	55	m.b.c	bc.cm	om.f	11.2
Nottingham ...	1026.2	69	NW	3	bc	1029.0	*	56	-3	NW	1	NW	cm	*	-	77	49	o.cm	c.b.m	bc.b	4.4
Benson (Oxon.) ...	1024.9	75	NNE	3	bc	1029.1	0	53	-5	-	0	-	b	*	-	78	44	bz	bcz	c.b	*
Sth Farnborough ...	1024.6	74	NNW	1	c	1029.2	0	57	-2	NW	1	N	b	*	-	80	50	f.b.b.c	b.b.c.c	c.b.c.b	9.5
London (Kew Obsy.) ...	1025.1	76	NE	2	bz	1028.8	+1	59	-1	NNW	1	NE	bm	*	-	76	55	f.w.m.b.c	bcz.bz	bz.c.b.m	7.6
NORTHERN EUROPE.																					
Spitsbergen ...	1011.7	41	-	0	f	1009.1	-2	45	+6	SE	1	*	c	*	*	45	37	UPPER AIR.			
Vardö ...	1016.6	48	E	1	b	1010.7	-3	48	0	SE	1	-	o	2	*	50	45	South Farnborough.			
Bodö ...	1017.7	57	W	4	r	1016.2	-3	57	-2	SW	2	-	b	2	3	59	52	Pilot Balloon Ascent at 6h.5m.			
Christiansund ...	1021.5	57	-	0	c	1017.2	-3	57	-2	-	0	-	c	2	2	59	54	WIND AT -			
Skudesnaes ...	1023.0	57	NNW	3	o	1022.6	0	57	+2	-	0	-	o	1	-	63	57	2100 metres WNW 3 mps.			
Færder(X'landfjord) ...	1018.4	72	WSW	4	bc	1018.0	0	64	-2	WNW	4	W	bc	4	-	73	63	1800 " N by E 2 "			
The Scaw (Skagen) ...	1023.4	61	NW	2	o	1023.9	0	61	-3	NW	3	-	o	2	-	66	59	1500 " NW by W 6 "			
Blaavands Huk ...	1020.2	73	SE	2	b	1019.7	-1	64	-4	WNW	3	-	o	*	-	77	61	1200 " W by N 7 "			
Copenhagen ...	1019.3	72	W	2	m	1019.5	0	63	-1	WNW	4	-	m	1	-	73	61	900 " WNW 5 "			
Bornholm ...	1019.3	72	W	2	m	1019.5	0	63	-1	WNW	4	-	m	1	-	73	61	600 " NW by N 6 "			
FRANCE, &c.																					
The Helder ...	1024.2	64	N	3	b	1027.2	+1	57	-4	N	1	-	f	1	-	70	55	300 " N 4 "			
C. Gris Nez ...	1024.8	59	ENE	4	f	1026.4	+2	56	-1	ENE	3	*	f	3	?	64	55	Surface NW 3 "			
La Hève ...	1023.9	61	N	2	m	1026.9	*	62	+5	NE	1	*	m	1	-	66	54				
Brest (St. Mathieu) ...	1026.9	65	N	4	bc	1030.0	+1	63	+3	N	1	*	b	1	-	70	54				
Rochefort (Ile d'Alx) ...	1022.3	67	NW	6	c	1024.2	+1	64	+2	NNE	4	*	b	*	-	79	59				
Biarritz ...	1025.1	69	NW	3	m	1025.6	0	67	+1	WNW	4	*	o	3	-	72	66				
GALES.																					
Paris ...	1021.9	73	SW	2	b	1025.7	+2	61	-2	N	3	-	o	*	-	77	59	Duration and Extreme Force			
Belfort ...	1019.7	62	W	3	m	1023.5	*	57	-2	-	0	*	m	*	2	73	53	in British Islands.			
Lyons ...	1018.9	68	NE	3	r	1019.8	*	66	+5	NNW	2	*	b	*	4	76	59				
Nice ...	1013.6	65	E	2	c	1015.1	+1	70	-3	-	0	*	c	2	7	81	61				
Perpignan ...	1017.9	70	NW	5	o	1018.4	+1	70	-2	NW	5	N	bc	*	-	82	66				
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
SOUTHERN STATIONS.																					
Corunna ...	1018.0	82	NNE	2	b	1023.1	+1	66	+2	NE	1	-	b	*	-	84	59				
Madrid ...	1018.0	82	NNE	2	b	1023.1	+1	66	+2	NE	1	-	b	*	-	84	59				
Lisbon ...	1029.6	*	SSE	4	m	1031.0	0	69	+3	-	0	*	c	1	-	82	66				
Madeira ...	1022.9	73	NE	3	o	1021.7	0	66	0	NE	3	-	b	3	-	73	66				
Gibraltar ...	1017.9	72	-	0	m	1018.3	*	71	+1	E	4	*	o	3	-	81	66				
Malta ...	*	*	*	*	*	1014.1	0	77	-2	NNW	2	W	o	2	-	88	75				
Limassol ...	*	*	*	*	*	1003.8	0	81	0	W	1	-	b	0	-	91	64				
Alexandria ...	1009.1	79	WNW	4	b	1009.0	0	81	0	NNW	5	-	b	4	-	88	77				
Cairo (Helwan) ...	1007.9	86	N	3	b	1009.1	+2	77	0	NNW	3	-	b	*	-	95	73				
YESTERDAY'S REPORTS																					
27th 20 h. G.M.T.																					
28th 7 h. G.M.T.																					
MEDITERRANEAN.																					
Venice ...	1014.6	75	-	0	o	1014.0	*	68	-2	N	1	NE	o	3	-	79	66				
Pesaro ...	1014.4	71	-	0	o	1014.4	*	72	+2	-	0	W	o	3	-	81	66				
Rome ...	1013.6	75	-	0	o	1010.7	*	75	+2	NE	1	-	o	*	Trace	88	68				
Viesti ...	1014.4	67	NW	1	bc	1014.0	*	79	+4	-	0	NE	o	1	-	82	62				
Brindisi ...	1012.4	72	NW	1	b	1013.4	*	75	*	NW	1	-	bc	1	-	82	68				
Cagliari ...	1012.7	84	S	3	c	1017.4	*	81	+2	NW	5	NW	b	4	-	86	61				
Palermo ...	1015.9	73	-	0	b	1011.1	*	86	+7	E	3	NE	b	1	-	82	72				
Tripoli ...	1013.7	73	NE	1	b	1012.3	*	82	*	NE	1	-	b	1	-	87	72				
Algiers ...	1013.2	77	WSW	4	b	1016.2	+2	75	-2	SW	2	-	b	2	-	91	70				





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

Moderate or fresh South-Westerly to Westerly breezes, moderating; dull to fair, local mist or showers; warm.

Calms and light variable breezes; fine generally, local morning mist or fog; warm.

Same as No. 0.

Same as Nos. 1 to 5.

Same as No. 9.

Same as Nos. 1 to 5.  
Light to moderate Northerly breezes; sea slight; fine, some mist or fog; warm.

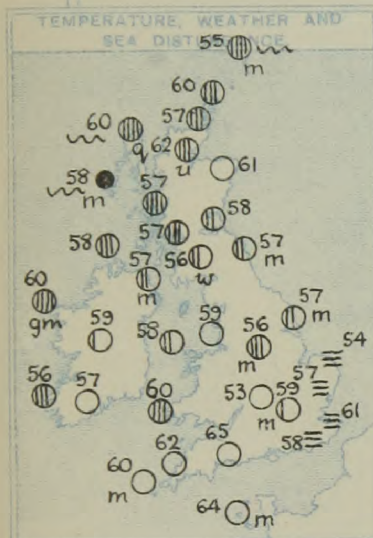
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 29<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

Anticyclonic quiet weather conditions are likely to prevail.



## EXPLANATION.

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

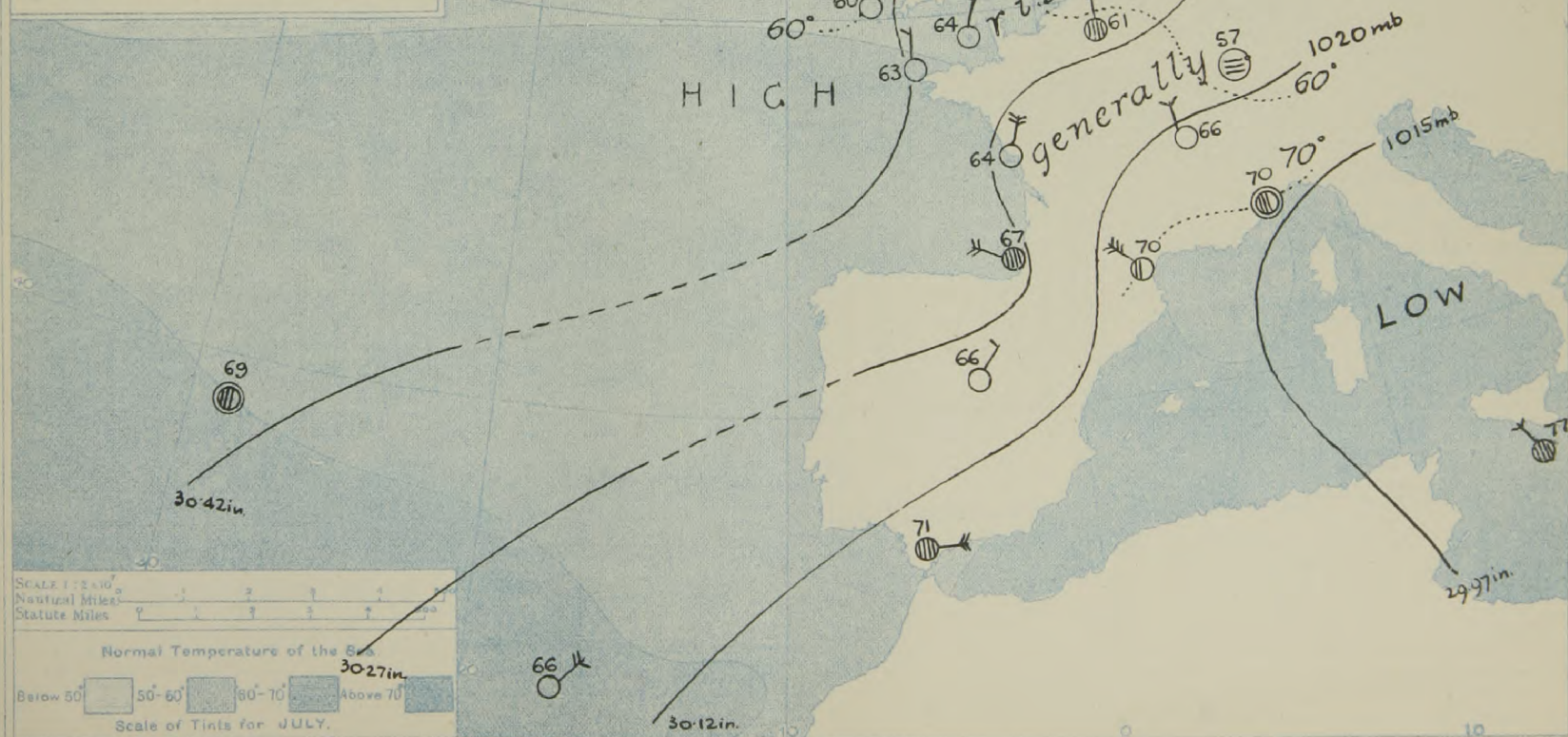
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ⊙ sky 1/2 clouded. ⊙ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~





REPORTS  
FROM RUSSIA  
FOR  
YESTERDAY.

STATIONS.	27th. AT 9 P.M. LOCAL TIME						28th. AT 7 A.M. LOCAL TIME.															
	BAROM. Milli- bars at M.S.L	TEMP.	WIND.		Weather.		BAROMETER.		TEMP.		WIND.		Direc. or Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.					
			Direc.	Force 0-12.			Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min				
Archangel ...	1020.3	50	NE	2	o		1020.0	0	46	-2	NNE	2	*	o	*	-	*	37				
Gorki ...	1012.3	63	NE	1	b		1012.7	0	63	.	-	0	*	b	*	-	*	54				
Veliki Luki ...	1015.3	64	-	0	b		1016.0	*	54	-5	NNW	2	*	b	*	-	*	52				
Hangö ...	1018.7	68	-	0	c		1018.9	+2	64	-4	-	0	*	b	*	-	*	61				
Riga ...	1019.3	61	NE	3	b		1017.9	0	68	-5	-	0	*	b	*	-	*	63				
Petrograd ...	1012.7	61	N	2	b		1014.4	+2	54	-5	NE	3	*	b	*	-	*	54				
Moscow ...	1014.0	70	W	1	o		1014.1	+2	64	0	NW	2	*	bc	*	-	*	52				
Kiev ...	1009.9	61	-	0	bc		1010.6	+1	63	-10	WNW	1	*	bc	*	-	*	59				
Kharkov ...	1014.0	70	W	1	o		1014.1	+2	64	0	NW	2	*	bc	*	-	*	54				
Kishinev ...	1011.1	70	-	0	b		1012.0	*	64	-2	-	0	*	b	*	-	*	63				
Elisabetgrad ...	1012.4	72	W	3	o		1012.0	+1	70	+2	ENE	2	*	o	*	-	*	61				
Nicolaiev ...	1011.8	70	NW	2	b		1010.6	*	73	0	SSW	4	*	c	*	-	*	66				
Odessa ...	1009.0	75	-	0	c		1009.0	*	72	.	-	0	*	c	*	-	*	66				
Tarkhankout ...																		?				
Soukhom ...																						

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.			
Scotland.	Oban ...	4.6	-	60	47	o	bc	1.3	England, E.	Lowestoft ...	0.0	-	59	53	af c	c-af	1.8
	Banff ...	4.3	-	64	53	bc	bc	1.0		Felixstowe ...	0.1	-	65	48	bc	bc	9.4
	Carnoustie ...	*	-	70	59	b	b	7.0		Walton-on-Naze ...		-					
	St. Andrews ...	11.1	-	71	56	b	b	6.3		Southend-on-Sea ...	5.9	-	72	52	b	b	7.2
Eng. N.E.	Harrogate ...	7.5	-	74	55	b, bc	bc, b	11.0	England, S.E.	Margate ...	5.4	-	63	55	af, ma	b	3.8
	Skegness ...	9.5	-	61	53	m, o, bc	bc, om	2.3		Ramsgate ...	0.0	-	69	54	b	b	8.6
Eng. N.W.	Morecambe ...	10.0	-	68	57			12.5		Hastings ...	8.2	-	69	55	b, bc, b	b	11.7
	Blackpool ...		-							Eastbourne ...	9.9	-	72	54	b	b	11.1
	Southport ...	11.8	-	64	57	b, bc	b, bc	12.0		Seaford ...	7.4	-	67	52	f	c	3.5
Midlands.	Buxton ...		-						England, S.W.	Brighton ...		-					
	Leamington Spa ...	9.2	2	75	55	b	b	10.1		Worthing ...	11.6	-	72	56	b	b	10.4
	Malvern ...		-							Littlehampton ...	9.2	-	69	54	b	b	9.0
Wales.	Ross-on-Wye ...	9.1	-	76	54	b	b	11.4		Bognor ...		-					
	Rhyl ...	10.1	-	63	47	b	b	12.1		Bournemouth ...	*	-	79	58	b, b	b	11.5
	Colwyn Bay ...	*	-	65	53	bc	bc	11.5		Weymouth ...	*	-	80	60	b	b	10.0
	Llandudno ...	*	-	63	48	b	b	11.1		Torquay ...	10.8	-	76	58	b	b	11.2
	Aberystwyth ...	*	-	65	55	o, c, b	b, bc	11.0		Paignton ...		-					
	Tenby ...	11.9	-	74	*	bc	b	11.9		Penzance ...	11.1	-	73	60	b	b	12.5
										Newquay ...	10.8	-	66	60	b	b	11.5
										Bude ...	10.8	-	70	49	b	b	11.4
										Ilfracombe ...	*	-	67	53	b, b	b	8.8
										Weston-s-Mare ...	6.5	-	72	56	b	b	0.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall.	WEATHER.		
	15 h. Yester- day.	9 h. To- day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.				
	24 HOURS ENDED 9 h. TO-DAY			° F.	° F.				
Greenwich (Royal Obs.) ...	55	66	8.2	78	56	47	bz	bz	bc, bz
City (Bunhill Row) ...	*	*	6.8	*	*	*	*	*	*
Westminster (St. James's Pk.) ...	59	71	6.3	78	56	54	b	b	b
Camden Sq. (Brit. Rainfall) ...	55	66	6.8	80	55	54	o, b	b	*
Hampstead (Reservoir) ...	*	69	7.0	74	52	44	c	bc	bc
S. Kensington (Museum Grounds) ...	*	66	6.3	79	57	?	b, bc, b	bz	bz
Richmond Park ...	*	*		*	*	*	*	*	*
Kew. (See front page.) ...	*	*	7.6	*	*	*	*	*	*
(Greenwich and Camden Square air temperatures are in Glaisher screens.)									

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

29th & 30th July, 1916.	Sunrise.		Noon.		Sunset.	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	4.7	11.59	7.50	1.49	7.50	1.49
Greenwich ...	4.20	12.6	7.51	1.48	7.51	1.48
Wick ...	3.57	12.15	8.31	1.18	8.31	1.18
Valencia ...	4.29	12.47	8.37	1.36	8.37	1.36

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.

## NOTES ON YESTERDAY'S WEATHER.

High temperature prevailed, touching 80° at Farnborough and Weymouth. Slight rain fell in Shetland and the Hebrides, and there was again much mist or fog. Sunshine ranged up to 14½ hours at Pembroke.

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.



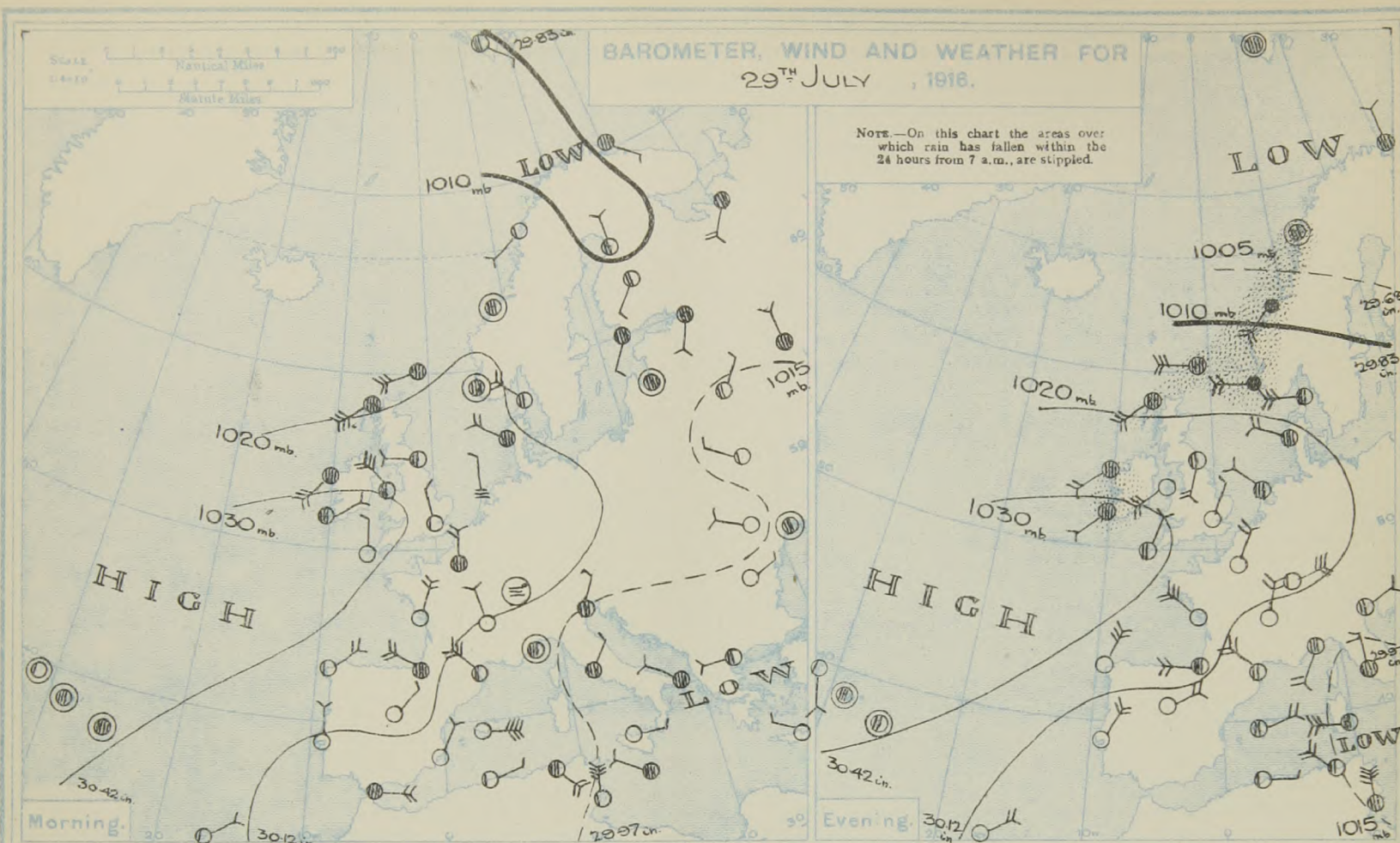
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 212. Sunday, 30<sup>th</sup> July.

STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 8 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	1014.4	55	W	5	ofe	1014.4	+1	53	-2	NW	4	-	O	4	9	56	50	ofe	ofe	op.	*	
Deerness (Orkney) ...	1017.3	59	W	6	O	1015.2	*	54	-6	WNW	5	-	or	3	11	62	54	c.o	O	or	0.0	
Stornoway ...	1017.8	58	SW	5	ogz	1018.2	+3	53	-7	W	2	-	od	2	3	62	53	og	ogz	odng	0.0	
Castlebay (Barra Isd.) ...	1022.4	58	SW	4	fd	1019.7	0	58	0	W	4	-	nm	4	2	59	56	r. om	omd f	afd. m	0.0	
Glasgow ...	1025.1	61	WSW	3	omg	1022.0	-1	58	+1	WSW	4	-	om	*	0.3	62	57	comdp	omd p	omd pg	0.9	
Eskdalemuir ...	1025.8	65	WSW	4	O	1023.1	0	60	+4	SW	3	-	O	*	-	68	54	bc O	O	O	5.6	
Malin Head ...	1025.0	64	SW	6	bzg	1023.7	-2	60	+2	SW	5	-	omg	5	-	65	58	omg	bzg	omg	2.9	
Blacksod Point ...	1027.9	60	SW	3	ome	1025.4	-2	60	0	SW	4	-	ome	3	1	62	58	ome	ome	omd fe	*	
Valencia ...	1030.9	62	SW	2	om	1029.2	-1	60	+4	-	0	SW	0	3	1	66	56	c.od	O	omd od	1.6	
Roche's Point ...	1030.0	68	W	2	C	1028.9	*	60	+3	NW	3	N	C	2	0.2	70	56	b. bc. c	C	c. bw.	*	
Birr Castle ...	1029.0	66	W	2	O	1027.8	*	61	+4	W	1	-	O	*	0.2	72	57	C	O	op	5.9	
Donaghadee ...	1026.4	71	W	3	bc m	1024.3	0	63	+6	W	4	-	Cg	2	-	73	57	om	om	bc m	*	
Liverpool (Bidston) ...	1027.9	67	W	3	b	1026.2	0	62	+3	WSW	3	W	O	2	-	68	59	b	b	bm. O	14.7	
Holyhead ...	1028.3	63	SW	5	b	1026.0	-1	60	+2	WSW	4	-	omg	3	-	69	58	bx	bx	b. o. c. O	13.5	
Pembroke (St. Ann's) ...	1030.1	63	WNW	2	b	1028.0	0	59	-1	-	0	-	fe	0	0.1	65	56	b	b	bc. fe	13.0	
Scilly (St. Mary's) ...	1030.9	65	NNE	2	bc.	1029.0	-1	61	+1	-	0	N	C	2	-	68	57	b	b. bc.	bc. bc.	13.4	
Falmouth ...	1030.1	65	NW	3	b	1028.3	0	60	-2	WNW	3	-	C	*	-	72	52	bg	bg. b	bc. om	14.9	
Jersey (St. Aubin) ...	1027.4	70	N	2	b	1026.7	*	63	-1	N	2	-	b	1	-	76	59	om	om. b	b	9.3	
Portland Bill ...	1027.8	65	-	0	b.	1027.0	-1	64	-1	NW	1	-	b	2	-	72	57	bc. b	b.	bc. b.	*	
Dungeness ...	1027.1	58	E	1	f	1026.6	-1	57	-1	NW	1	-	om	1	-	62	50	f	f	f. b. m. f.	*	
Dover ...	*	*	*	*	*	1026.1	-1	64	+3	-	0	-	bx	1	0.2	71	50	*	*	f. bx	9.1	
Wick ...	1017.9	65	W	4	O	1016.2	+2	57	0.	WNW	3	-	O	2	-	69	57	c. ogg	ogg	ogg m. p.	*	
Nairn ...	1019.5	70	WSW	4	clg	1017.4	*	61	-1	W	1	-	og	1	-	72	59	bcg	bc. cg.	c. cw.	4.7	
Aberdeen ...	1020.3	73	W	3	O	1017.4	0	70	+9	W	2	W	bc	1	-	79	61	b. bc. O	bc. c.	c. bc.	6.5	
Leith ...	1023.8	65	W	4	O	1021.2	-1	62	+4	W	4	-	O	4	-	69	58	bc. c. O	bc. c. O	c. bc. O	*	
Tynemouth ...	1025.1	70	SSW	3	bc m	1022.7	?	66	+9	W	3	W	om	3	-	73	57	bc	bc.	om.	*	
Spurn Head ...	1027.1	63	SSE	3	bc m	1024.9	-1	63	+6	WNW	4	-	bc	3	-	72	54	bc m	bc m	bc	10.7	
Yarmouth ...	1027.1	61	S	2	bc	1025.3	-1	57	+3	WNW	2	-	bc	1	-	63	54	f. bc	bc m.	bc m.	7.5	
Clacton-on-Sea ...	1027.2	62	ESE	1	bc	1026.5	-1	58	+1	NNW	3	-	bc	2	-	64	54	f. om	a. bc m.	bc. omz	5.4	
Nottingham ...	1027.1	70	W	2	bc	1026.1	*	61	+5	WSW	1	-	b	*	-	74	53	omd	b. bc	bc. b	10.0	
Benson (Oxon.) ...	1026.6	75	-	0	b	1027.2	0	56	+3	-	0	-	b	*	-	78	46	b	b	b	*	
Sth Farnborough ...	1026.2	76	NNW	2	b	1026.7	0	57	0	WNW	1	-	b	*	-	78	48	b	b	bc. w	13.5	
London (Kew Obsy.) ...	1026.7	78	NNE	1	b	1027.0	0	59	0	WNW	1	-	b	*	-	78	53	b. m. b. x	bx. b.	b. bc m.	13.7	
NORTHERN EUROPE.																						
Spitsbergen ...	1004.6	41	-	0	O	998.6	-3	43	-2	S	1	*	O	*	*	45	37	-	-	-	-	
Vardö ...	1004.1	48	N	2	O	994.1	-6	50	+2	NNW	1	-	O	3	*	48	45	-	-	-	-	
Bodö ...	1004.2	53	-	0	C	991.1	-5	55	-2	E	2	-	C	2	6	59	50	-	-	-	-	
Christiansund ...	1005.6	57	SW	4	T	1002.6	0	52	-5	SW	8	-	T	5	10	61	48	-	-	-	-	
Skudesnaes ...	1016.6	52	W	4	T	1010.7	-3	57	0.	NW	7	-	O	4	11	63	55	-	-	-	-	
Færder (X'ania Fjord) ...	1017.0	64	W	5	C	1013.2	-1	64	0	WSW	5	-	O	5	-	72	61	-	-	-	-	
The Scaw (Skagen) ...	1023.3	61	NW	3	O	1018.6	-2	61	0	WNW	3	-	O	3	-	64	57	-	-	-	-	
Blaavands Huk ...	1018.9	68	NW	5	C	1015.9	-1	61	-3	W	3	-	C	*	-	70	59	-	-	-	-	
Copenhagen ...	1017.5	64	WNW	4	m.	1015.4	-2	60	-3	W	7	-	m	2	-	66	57	-	-	-	-	
Bornholm ...	1026.4	59	NW	2	C	1023.9	-1	61	+4	SW	1	N	b	1	-	63	59	-	-	-	-	
The Helder ...	1024.6	57	NE	4	f	1025.9	-1	59	+3	NE	1	*	bc	0	1	64	52	-	-	-	-	
C. Gris Nez ...	1026.4	68	NNE	1	b	1025.5	*	61	-1	SW	1	*	m	1	-	73	57	-	-	-	-	
La Hève ...	1026.4	68	NNE	1	b	1025.5	*	61	-1	SW	1	*	m	1	-	73	57	-	-	-	-	
Brest (St. Mathieu) ...	1028.8	63	N	4	b	1028.6	-1	57	+6	N	3	*	b	2	-	72	55	-	-	-	-	
Rochefort (Ile d'Alx) ...	1022.7	70	NW	5	b	1024.0	0	68	+4	NNE	3	*	b	*	-	81	61	-	-	-	-	
Biarritz ...	1024.3	70	W	4	C	1023.7	0	66	-1	SW	4	*	C	3	-	72	66	-	-	-	-	
Paris ...	1024.6	79	NNE	3	b	1025.9	0	64	+3	NNE	2	-	b	*	-	81	57	-	-	-	-	
Belfort ...	1021.6	75	ENE	5	b	1024.3	*	61	+4	E	2	*	m	*	-	79	55	-	-	-	-	
Lyons ...	1018.0	79	NNE	4	b	1022.1	*	64	-2	NNW	2	*	b	*	-	81	61	-	-	-	-	
Nice ...	1016.4	73	SW	3	C	1017.9	+2	79	+9	E	2	-	b	2	Trace	82	64	-	-	-	-	
Perpignan ...	1017.7	79	NW	4	bc	1019.9	+2	72	+2	WNW	3	-	C	*	-	82	70	-	-	-	-	
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-
Corunna ...	1025.6	68	NNE	5	b	1024.0	0	66	-	NE	2	-	b	1	-	70	61	-	-	-	-	
Madrid ...	1017.2	82	NE	3	b	1021.0	0	68	+2	E	3	-	b	*	-	82	61	-	-	-	-	
Lisbon ...	1015.4	90	NNE	4	b	1016.2	+1	75	-	NNE	5	-	b	2	-	91	75	-	-	-	-	
Azores ...	1031.4	*	-	0	C.	1034.4	0	66	-3	-	0	-	b	2	-	84	64	-	-	-	-	
Madeira ...	1019.8	73	NE	3	b	1018.4	-1	66	0	N	3	-	bc	3	-	75	66	-	-	-	-	
Gibraltar ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-
Malta ...	*	*	*	*	*	1013.0	0	75	-2	NW	4	-	bc	3	-	79	72	-	-	-	-	
Limassol ...	*	*	*	*	*	1004.7	+2	88	+7	WSW	2	-	b	0	-	95	68	-	-	-	-	
Alexandria ...	1008.8	79	NNW	5	b	1009.6	+1	82	+1	NW	5	-	b	4	-	86	79	-	-	-	-	
Cairo (Helwan) ...																						

## RAINFALL.

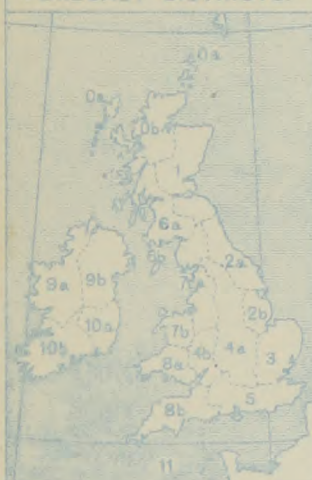
Equ





**FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No  
Warnings  
Issued.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

- |    |            |  |
|----|------------|--|
| 0  | a }<br>b } | Moderate to fresh South-Westerly to Westerly breezes; dull to fair, some showers, mist or fog; moderate temperature. |
| 1  | a }<br>b } | Light to moderate Westerly breeze; fair to fine, some mist, warm.  |
| 2  | a }<br>b } |  |
| 3  | a }<br>b } | Calms and light variable breezes; fine generally, some mist or fog; moderate temperature.                            |
| 4  | a }<br>b } |  |
| 5  | a }<br>b } |  |
| 6  | a }<br>b } | Same as No. 0.   |
| 7  | a }<br>b } | Same as Nos. 1 and 2.  |
| 8  | a }<br>b } | Same as Nos. 3 to 5.   |
| 9  | a }<br>b } | Same as No. 9.   |
| 10 | a }<br>b } | Same as Nos. 3 to 5.   |
| 11 | a }<br>b } | Light to moderate Northerly to North-Easterly breezes sea moderate; fine, local mist or fog; moderate temperature.   |

Millibars

1050

1040

1030

1020

1010

1000

990

980

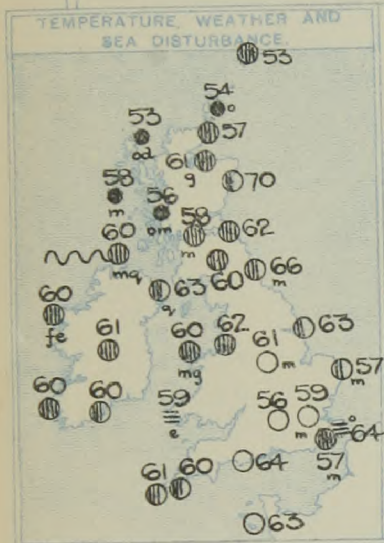
970



# SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 30<sup>TH</sup> JULY, 1916.

## GENERAL INFERENCE.

No great change in the 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.

**TEMPERATURE.**—Given in degrees Fahrenheit.

Isotherms shown by dotted lines

**WEATHER.**—Shown by the following symbols:—

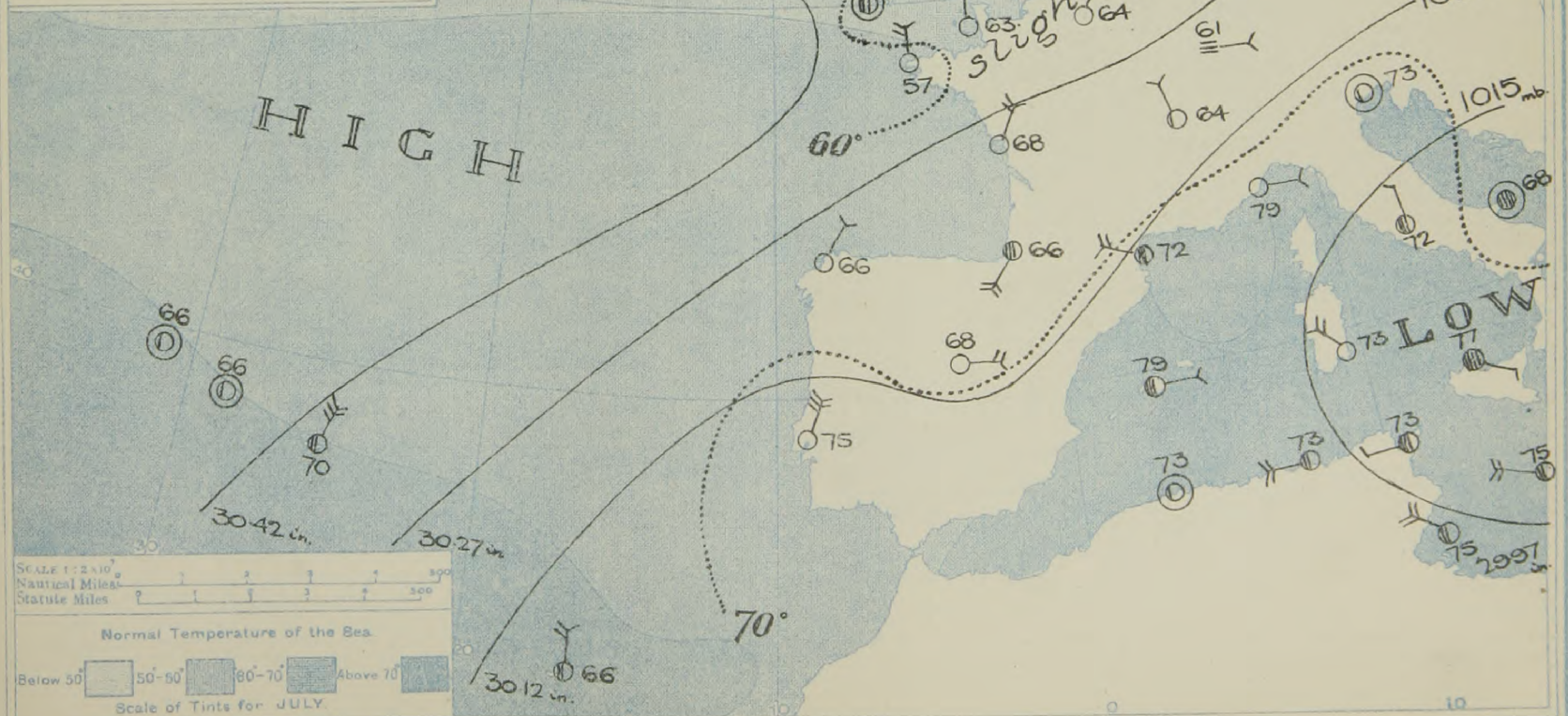
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

⊙ sky 3/4 clouded. ⊙ overcast sky. ⊙ rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	28th, AT 9 P.M. LOCAL TIME.						29th, AT 7 A.M. LOCAL TIME.										Rain- fall. -Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.	Min.			
			Direc.	Force 0-12.						Direc.	Force 0-12.								
Archangel ...	1017.5	50	WNW	2	bc	1012.8	+2	46	-2	SW	3	*	o	*	-	*	61		
Gorki ...	.	.	.	.	.	1013.9	+1	57	.	NE	1	*	bc	*	-	*	55		
Veliki Luki ...	.	.	.	.	.	1017.6	*	54	-5	-	0	*	b	*	-	*	46		
Hangö ...	1016.4	66	-	0	o	1013.3	-3	66	-2	-	0	*	o	*	-	*	59		
Riga ...	1017.0	68	-	0	b	1015.7	-2	63	-10	-	0	*	o	*	3	*	61		
Petrograd ...	1017.0	64	NW	2	r	1015.0	-1	61	0	SW	2	-	o	*	-	68	54		
Moscow ...	1016.3	54	NE	2	bc	1017.5	+1	52	-7	N	2	*	o	*	-	*	45		
Kiev ...	1013.9	64	-	0	bc	1014.1	0	63	0	NW	1	*	b	*	-	*	57		
Kharkov ...	1011.8	64	NE	3	o	1015.2	0	64	-9	NE	1	*	b	*	-	*	54		
Kishinev ...	1015.5	68	NW	2	bc	1015.4	+3	64	0	NW	2	*	b	*	-	*	59		
Elisabetgrad ...	1012.2	68	-	0	o	1014.0	+2	63	0	NW	1	*	b	*	-	*	65		
Nicolaiev ...	1011.1	68	-	0	bc	1012.4	*	68	+2	-	0	*	c	*	-	*	61		
Odessa ...	1012.4	72	N	2	c	1013.0	+1	68	0	NNE	2	*	b	*	-	*	64		
Tarkhankout ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.		
Soukhoun ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 17h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.						Mm.	Mm.	° F.	° F.			
Scotland.									England, E.								
Oban ...	5.5	-	1	57	54	r	om	0.0	Lowestoft ...								
Banff ...	4.3	-	-	72	55	bc	bc.c	1.9	Felixstowe ...	1.2	-	-	65	50	p.bcm.	bcm	3.7
Carnoustie ...	*	-	-	72	62			9.8	Walton-on-Naze ...	1.4	Trace	-	62	53	b.f.o.c	c.b.b	4.3
St. Andrews ...									Southend-on-Sea ...	4.5	-	-	73	54	c.b.c.b	b	6.0
Eng., N.E.									England, S.E.								
Harrogate ...	8.8	-	-	73	49	b	b	12.0	Margate ...	5.4	-	-	62	55	o	o	0.6
Skegness ...	*	-	-	67	52	b	b	9.6	Ramsgate ...	2.2	-	-	64	53	o.b.c	bc.o	2.3
Eng., N.W.									Hastings ...	8.6	-	-	67	58	b.b.c.b	b	9.5
Morecambe ...									Eastbourne ...	9.1	-	-	71	57			8.1
Blackpool ...									Seaford ...	7.8	-	-	71	55	b	b	9.6
Southport ...									Brighton ...	0.8	-	-	72	56	b	b	10.2
Midlands.									Worthing ...	11.2	-	-	75	58	b	b	10.5
Buxton ...	*	-	-	69	49	bc	bc	10.0	Littlehampton ...	9.7	-	-	72	57			10.5
Leamington Spa ...	11.1	-	-	75	48	b	b	10.0	Bognor ...	*	-	-	75	59	b	b	12.0
Malvern ...									Bournemouth ...	*	-	-	80	55	b	b	12.5
Ross-on-Wye ...	10.5	-	-	78	46	b	b	11.6	England, S.W.								
Wales.									Weymouth ...								
Rhyl ...									Torquay ...	10.2	-	-	75	56	b	b	11.0
Colwyn Bay ...									Paignton ...								
Llandudno ...	*	-	-	69	50	b	b	13.4	Penzance ...	11.5	-	-	71	55	b	b	12.0
Aberystwyth ...	*	-	-	66	48	c.b	b.b.c	12.0	Newquay ...								
Tenby ...	11.9	-	-	72	?	bc	b	11.5	Bude ...	11.5	-	-	69	49	b	b	12.0
									Ilfracombe ...								
									Weston-s-Mare ...								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.	
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	1978	Joules.	35.4 Milliwatts.	69 Milliwatts.		
				Max.	Min.											
				24 HOURS ENDED 9 h. To-Day												
%	%	Hr.	F.	° F.	° F.	mm. §	Hours of Observation G.M.T.									
Greenwich (Royal Obsy.) ...	45	62	12.3	79	51	41	—	cg	bcg	bz		Morning.	Evening.		Morning.	Evening.
City (Bunhill Row) ...	*	*	12.7	*	*	*	*	*	*	*		h.	h.		h.	h.
Westminster (St. James's Pk.)	51	68	13.1	79	56	52	—	b	bm	b	British Isles ...	7	18	Corunna ...	7	16
Camden Sq. (Brit. Rainfall)	48	62	10.7	82	54	53	—	b	b	*	France ...	7	18	Madrid ...	8	16
Hampstead (Reservoir) ...	*	?	13.5	78	56	40	—	bc	bc	b	Norway ...	7	18	Lisbon ...	7	21
S. Kensington (Museum Grounds)	*	62	12.7	81	57	?	—	om. bz	bz	bz	Denmark ...	6	17	Azores ...	8	17
Richmond Park ...	*	*	13.0	*	*	*	*	*	*	*	Holland ...	6	17	Madeira ...	7	21
Kew. (See front page.)	*	*		*	*	*	*	*	*	*	Italy ...	7	20	Malta ...	8	—
(Greenwich and Camden Square air temperatures are in Glaisher screens.)											Egypt ...	6	18	Limassol ...	6	—

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

20th to 31st July, 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	4.8	11.69	7.49
Greenwich ...	4.10	11.69	7.47
Wick ...	4.24	12.6	7.51
Valencia ...	4.39	12.8	8.37
	4.1	12.8	8.35
	4.59	12.47	8.36
	5.1	12.47	8.33

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

STATION, Date and Hour.	Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.	
	Benson 25"	12h.	Benson 26"	12h.	Benson 29h.	12h.	Benson 29h.	12h.	Benson 29h.	12h.	Benson 29h.	12h.	Benson 29h.	12h.	Benson 29h.	12h.
Heights in Kilometres	3	-4	-4	-3	-1	+1	-5	-1	-3	-4	-5	-2	-1	-2	-1	-2
	2	-3	-5	-5	-1	+0	-3	-1	-3	-4	-5	-2	-1	-2	-1	-2
	1	-3	-7	-5	-1	+3	-4	-1	-3	-4	-5	-2	-1	-2	-1	-2
	0.5	-1	-2	-2	0	+2	-5	-1	-3	-4	-5	-2	-1	-2	-1	-2
	0	0	-1	-2	+2	-1	-2	-1	-3	-4	-5	-2	-1	-2	-1	-2

NOTE.—The information relating to weather is indicated by the following letters:—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. 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.

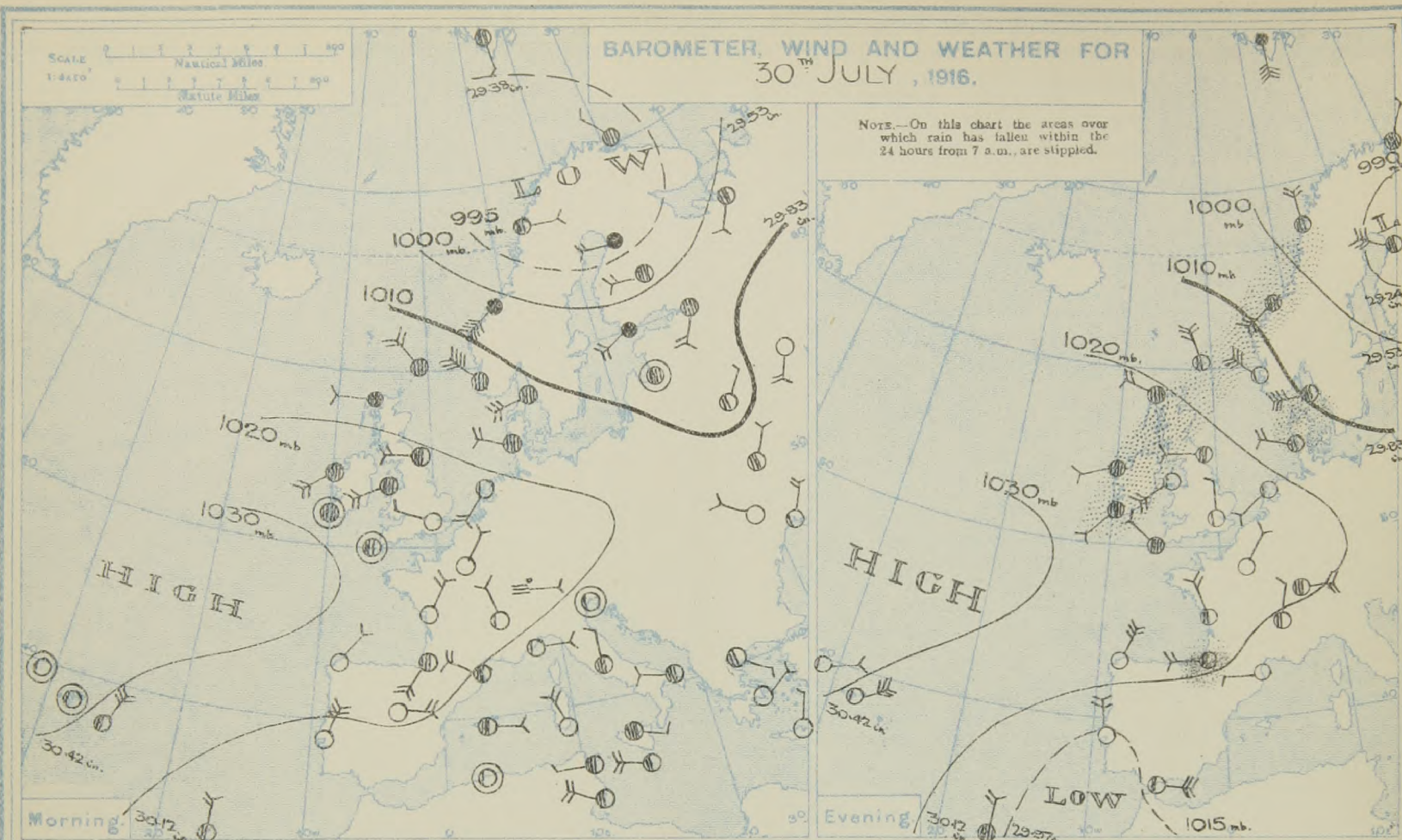
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31<sup>st</sup> July

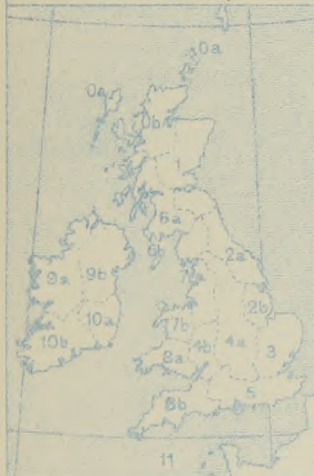
† The barometric change is expressed in half-millibars.





#### FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

##### FORECAST DISTRICTS.



##### STORM WARNINGS.

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

Signals hoisted yesterday.

South Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No Warnings Issued.

Western Channel and Bay 11

Calms and light variable breezes ;  
fine generally, local mist or fog ; warm.

Light Northerly to North-Easterly breeze; sea moderate; fair to fine, local mist or fog; warm.

##### FURTHER OUTLOOK.

Millibars

1050—

1040—

1030—

1020—

1010—

1000—

990—

980—

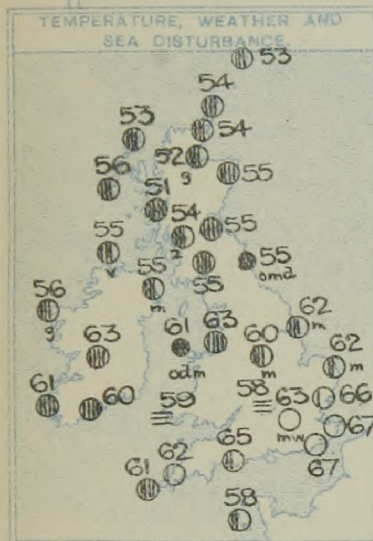
970—



# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 31<sup>ST</sup> JULY, 1916.

GENERAL INFERENCE.

Quiet anticyclonic  
conditions will continue.



## EXPLANATION.

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

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

Force, on the scale 0-12, is indicated by the number of feathers.

**TEMPERATURE.**—Given in degrees Fahrenheit.

Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.

○ sky ¾ clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~.

ches  
-31

30

29

SCALE 1:250,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 50° 50°-60° 60°-70° Above 70°

Scale of Tints for JULY.

Direction



REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	...at 9 P.M. LOCAL TIME.					...at 7 A.M. LOCAL TIME.									
		Barom. Milli- bars at M.S.L.	Temp. °F.	Wind.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Temp. °F.	Wind.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. -Milli- metres.	Temp.	
				Force 0-12.	Dir.										Max.	Min.
	Archangel ...						1000.8	-1	54	SW	2	c	*	-	*	4.1
	Gorki ...	1012.7	63	NE	1	o	1009.2	-1	61	NE	1	bc	*	-	*	52
	Veliki Luki ...	1012.6	61	-	0	b	1010.0	*	59	SE	3	b	*	-	*	54
	Hangö ...						1005.5	-3	64	WSW	4	r	*	-	*	63
	Riga ...	1010.3	63	-	0	b	1008.0	-2	63	-	0	o	*	4	*	59
	Petrograd ...	1009.3	64	SW	3	b	1003.7	-4	66	SW	3	o	*	1	70	61
	Moscow ...	1015.4	59	WSW	1	c	1014.6	0	57	SW	2	b	*	-	*	50
	Kiev ...	1014.1	64	NE	2	bc	1014.1	0	63	NE	2	c	*	5	*	57
	Kharkov ...	1014.0	59	E	1	b							*	-	*	
	Kishinev ...	1015.7	70	NW	2	b	1016.0	0	63	NW	2	b	*	-	*	59
	Elisabetgrad ...	1013.6	68	N	2	b	1013.9	0	64	N	2	b	*	-	*	57
	Nicolaiev ...	1012.7	70	-	0	bc	1013.3	*	66	NE	2	b	*	1	*	63
	Odessa ...	1012.5	75	ENE	3	o	1014.3	+1	68	NE	2	c	*	-	*	64
	Tarkhankout ...	1013.1	68	-	0	b	1012.7	0	73	SE	1	b	*	-	*	66
	Soukhoum ...												*	-	*	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY. UP TO 17h.

STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.	STATIONS.	Sun- shine for	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine to 17 h.
		Night. 12h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.				Night. 12h-9h.	Day. 9h-17h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	°F.	°F.						Mm.	Mm.	°F.	°F.			
Scotland.									England, E.								
(Oban ...	0.0	0.1	0.1	57	55	m/c	o.	0.0	(Lowestoft ...				74	53	bc	bc	11.7
(Banff ...	1.9	-	-	60	55	or	or. o	0.3	(Felixstowe ...	4.7	-	-	74	53	bc	bc	12.6
(Carnoustie ...	9.8	-	-	74	57	o.	o.	7.2	(Walton-on-Naze ...	4.3	-	-	71	53	b. bz	b. bz	10.1
(St. Andrews ...									(Southend-on-Sea ...	3.1	-	-	84	54	b	b	
Eng. N.E.									England, S.E.								
(Harrogate ...	4.2	-	-	68	57	o. c	c	1.7	(Margate ...	*	-	-	75	53	b	bc	10.6
(Skegness ...	*	-	-	82	52	b	b	11.1	(Ramsgate ...	7.3	-	-	73	52	b	b	9.6
									(Hastings ...	11.6	-	-	72	54	b	b	11.7
Eng. N.W.									(Eastbourne ...	10.1	-	-	72	54	b	b	11.4
(Morecambe ...									(Seaford ...		-	-	69	53	b	b	11.6
(Blackpool ...									(Brighton ...	11.4	-	-	75	54	b	b	11.5
(Southport ...									(Worthing ...	12.1	-	-	75	54	b	b	
									(Littlehampton ...		-	-	71	54	b	b. bc	12.5
Midlands.									(Bognor ...	*	-	-	80	53	b	b	12.6
(Buxton ...									(Bournemouth ...	*	-	-					
(Leamington Spa ...	12.1	-	-	80	52	b. bc	b. bc	9.8	England, S.W.								
(Malvern ...									(Weymouth ...								
(Ross-on-Wye ...									(Torquay ...								
									(Paignton ...								
Wales.									(Penzance ...								
(Rhyl ...	14.2	-	-	70	56	c. bc. c	b	6.1	(Newquay ...				67	46	o	o	0.1
(Colwyn Bay ...	*	-	-	72	61	bc	bc	6.0	(Bude ...	14.0	-	-	69	44	o	o	0.5
(Llandudno ...									(Ilfracombe ...								
(Aberystwyth ...	*	-	-	66	53	o. c. b	o. c.	2.3	(Weston-s-Mare ...								
(Tenby ...																	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Vertical Component of Solar Radiation per square Centimetre during Yesterday.		Total.	Average Rate.	Max. Rate.
	15 h. Yester- day.	9 h. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	2192 Joules.	368 Milli-watts.	73 Milli-watts.		
				Max.	Min.										
24 HOURS ENDED 9 h. TO-DAY															
%	%	Hr.	F.	° F.	° F.	mm. §									
Greenwich (Royal Obs.) ...	44	61	13.8	82	56	47	-	b	b	b					
City (Bunhill Row) ...	*	*	13.5	*	*	*	*	*	*	*					
Westminster (St. James's Pk.)	39	51	14.0	82	60	56	-	b	b	bm. b.					
Camden Sq. (Brit. Rainfall)	-	62	10.5	84	60	58	-	-	-	-					
Hampstead (Reservoir) ...	*	66	13.5	80	61	44	-	b	b	bc.					
S. Kensington (Museum Grounds)	*	56	14.0	82	57	48	-	bz	bz	bz					
Richmond Park ...	*	*	13.1	*	*	*	*	*	*	*					
Kew. (See front page.)	*	*	13.7	*	*	*	*	*	*	*					
(Greenwich and Camden Square air temperatures are in Glaisher screens.)															
Hours of Observation G.M.T.															
	Morning.	Evening.		Morning.	Evening.										
	h.	h.		h.	h.										
British Isles ...	7	18	Corunna ...	7	16										
France ...	7	18	Madrid ...	8	16										
Norway ...	7	18	Lisbon ...	7	21										
Denmark ...	6	18	Azores ...	8	17										
Holland ...	6	17	Madeira ...	7	21										
Italy ...	7	20	Malta ...	8	-										
Egypt ...	6	18	Limassol ...	6	-										

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

31 <sup>st</sup> July to 1 <sup>st</sup> Aug. 1916.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	4.10	11.59	7.47
Greenwich ...	4.23	12.06	7.49
Wick ...	4.13	12.18	8.35
Valencia ...	5.1	12.49	8.33
	5.3	12.47	8.32

## NOTES ON YESTERDAY'S WEATHER.

Warm weather prevailed, temperature rising to 82° in places, 83° at South Farnborough. Showers fell in the north and west, and many places had mist or fog. Sunshine ranged from none to 14 hours.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. 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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ADDITIONS AND CORRECTIONS  
TO THE  
DAILY WEATHER REPORT.

JULY, 1916.

Corrections and additions for the month of July are given on this sheet for stations in the British Isles, Scandinavia, Holland, France and "Southern Europe." The data for stations in Iceland will be issued in due course on a separate sheet.



# ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.  Hours.
		Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
																						F.	
4	Nice	1009.3	69	-	0	b.	1009.9	-4	67	-6	E	5	*	o	5	Trace	81	59					
	Madrid	1005.6	75	WSW	3	b.	1011.0	+2	59	-6	W	2	W	b	*	1	77	57					
	Lisbon	1010.6	66	WSW	4	bc.	1016.3	+3	63	+2	NNW	2	-	c	2	1	72	61					
	Horta						1022.6	0	66	+1	SW	4	*	c	2	-	73	63					
5	Horta						1023.4	+2	64	-2	-	0	*	c	1	2	73	62					
6	Spitsbergen.	1011.9	39	-	0	f	1011.5	0	39	0	-	0	*	r	*	*	39	37					
	Vardö	1013.6	57	N	1	bc.	1015.1	+2	50	+4	N	3	-	f	4	*	68	52					
	Bodö	1012.7	57	N	1	b	1013.0	0	59	-4	-	0	-	b	0	-	62	50					
	Christiansund	1012.8	57	-	0	c	1011.8	-1	55	0	NE	4	-	c	3	1	61	52					
	Skudesnæs.	1012.2	55	NW	4	b	1011.4	-1	54	0	N	2	-	o	1	-	57	46					
8	Madrid	1009.6	79	W	4	bc.	1012.6	+2	70	+4	SSW	2	-	b	*	-	81	57					
10	Madrid	1009.9	79	W	3	bc.	1016.7	+3	68	-3	-	0	-	b	*	-	81	52					
13	Madrid	1017.2	81	W	1	b.	1019.1	+2	70	+7	E	1	-	b	*	-	82	52					
14	Rocheport	1020.2	63	NNW	4	o	1019.3	-	60	-3	W	3	-	o	*	-	72	57					
15	Vardö	1016.2	48	SE	1	b	1015.4	-	52	-1	SE	1	*	b	3	*	-	-					
	Paris	1017.0	64	NNW	2	c	1022.1	-	57	0	-	0	-	b	*	2	68	52					
16	Lyons.	1022.7	65	N	2	b.	1022.9	*	59	-1	SW	2	*	b	*	-	71	53					
17	Spitsbergen	1013.7	45	N	4	b	1013.3	0	46	-2	-	0	*	b	*	*	50	37					
	Vardö	1018.0	50	SE	1	bc.	1016.3	-	54	0	SE	1	-	b	1	*	54	45					
18	Lisbon	1012.3	82	S	2	b.	1010.9	0	61	-5	SSW	2	-	o	2	-	86	61					
19	Spitsbergen	1005.5	46	S	1	b	1003.9	-1	41	-2	W	5	*	b	*	*	43	39					
	Vardö	1005.1	63	-	0	r	1007.7	+3	54	-12	NW	3	-	bc	3	*	70	52					
22	Lisbon	1016.7	73	W	3	b.	1017.2	0	64	0	NW	2	-	o	2	-	88	64					
24	Madrid	1012.3	84	W	1	b	1016.6	+2	72	+2	NE	2	-	b	*	-	75	66					
	Horta						1020.7	+1	68	+3	NNE	3	*	bc.	1	-	75	66					
25	Spitsbergen.	997.7	41	SSE	1	m.	1003.3	+4	29	-2	NNW	2	*	o	*	*	41	37					
	Vardö.	1019.1	52	N	1	bc.	1016.3	-2	54	-5	S	3	-	o	3	*	59	50					
	Sanguinaire.	*	75	W	4	c.	*	*	73	-3	E	3	*	m.	3	-	86	64					
27	Deerness.						1018.3	*	59	+6	NE	1	SW	cm.	0	1	64	53					
	Sanguinaire.	*	75	W	3	m	*	*	77	-1	E	1	*	c	2	-	84	75					
29	Sanguinaire.	*	77	W	3	r	*	*	73	-3	E	3	*	o.	3	-	82	64					
	Corunna	1027.9	66	NNE	5	bc	1027.5	+1	66	0	NE	3	-	bc.	2	-	70	64					
	Lisbon	1019.1	84	NW	4	b.	1019.1	+1	70	0	N	3	-	b	2	-	90	68					
31	Nice	1017.1	76	-	0	c	1017.6	*	77	-2	-	0	*	c	0	-	88	66					
	Madrid.	1015.1	84	NNW	1	b.	1017.0	+1	70	+2	NE	1	-	b	*	-	86	64					

c.d.b.n. 9.5







STAT	
Lerwic	
Deernes	
Stornoway	
Castellbay	
Glasgow	
Esksdaleen	
Malin Head	
Blackhead	
Valencia	
Roches	
Hirt Castle	
Donaghadee	
Liverpool	
Holyhead	
Pembroke	
Silly Is.	
Falmouth	
Jersey Is.	
Portland	
Dungeness	
Dover	
Wick	
Nairn	
Aberdeen	
Leith	
Tyngmouth	
Spurn Head	
Yarmouth	
Clacton-on-Sea	
Nettingham	
Benson (Oxon)	
Stn Farnham	
London (UK)	
Spitzberg	
Vardö	
Boås	
Christiania	
Skudenes	
Faeröer	
The Scav	
Blaavand	
Copenhagen	
Bornholm	
The Helg	
C. Gris	
La Hève	
Brest (se)	
Rochefort	
Biarritz	
Paris	
Belfort	
Lyons	
Nice	
Perpignan	
Sanguin	
Corunna	
Madrid	
Lisbon	
Azores	
Madeira	
Gibraltar	
Malta	
Limassol	
Alexandria	
Cairo (EG)	
YESTERDAY	
Venice	
Pesaro	
Rome	
Viesti	
Brindisi	
Cagliari	
Palerme	
Tripoli	
Algiers	

## GALIES

• Info