

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS

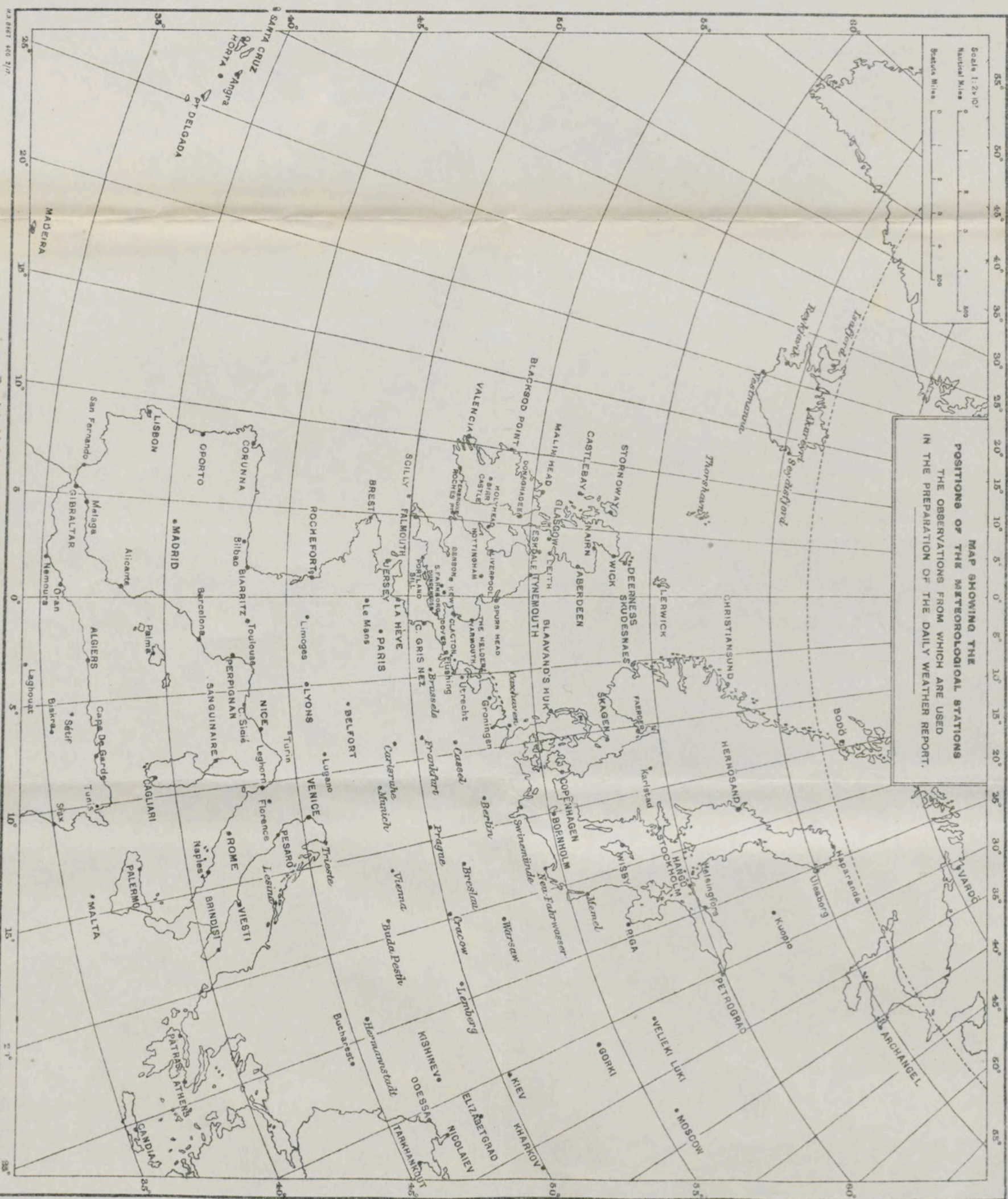
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1<sup>ST</sup> JANUARY TO 30<sup>TH</sup> JUNE, 1916.



# DAILY WEATHER REPORT, JANUARY-JUNE, 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.

### FIRST QUARTER, JANUARY TO MARCH.

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

JANUARY.

FEBRUARY.

MARCH.

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.		1898	°F.	1910	27	mm.	in.	hr.	%
Stornoway	1007.0	39.6	42.6	35.6	52		1890	16	1881	25	108	4.26	—	—
Castlebay (Barra Isd.)	1008.3	40.3	41.7	34.9	55			11	1881	25	131	5.17	0.90	13
Eskdalemuir	[1009.0]§	[43.0]§	[45.6]§	[39.3]§	[52]§		[1908, 09, 10, 14]§	[28]§	[1910]§	[24]§	[80]§	[3.16]§	[0.97]§	[13]§
Malin Head	[1012.7]¶	[34.8]¶	[39.6]¶	[30.4]¶	[51]¶		[1910, 11, 15]¶	[3]¶	[1910]¶	[21]¶	[114]¶	[4.48]¶	[1.03]¶	[14]¶
Blackod Point	1010.3	41.1	[44.4]¶	[37.4]¶	[55]¶		[1898]¶	[23]¶	[1894]¶	[22]¶	[66]¶	[2.61]¶	—	—
Valencia	1011.9	43.7	[46.5]¶	[38.8]¶	[56]¶		[1890]¶	[26]¶	[1891, 94]¶	[25]¶	[129]¶	[5.09]¶	—	—
Roches Point	1014.9	44.4	48.5	40.2	55		1882, 3, 4, 8, 9, 98, 1901	20	1894	24	139	5.49	1.55	19
Birr Castle	1016.0	43.2	47.5	39.4	57		1889	20	1894	21	105	4.15	—	—
Donaghadee	1014.3	39.3	45.2	34.3	57		1898	6	1881, 94	20	72	2.83	1.61	20
Liverpool (Observatory)	1013.5	40.5	44.8	36.3	58		1898	14	1881	20	64	2.53	—	—
Holyhead	1015.4	38.7	43.3	35.3	58		1898	9	1881	17	54	2.12	[1.94]§	[24]§
Pembroke (St. Ann's Hd.)	1014.8	42.3	45.2	38.4	54		1899, 1915	20	1894	19	74	2.91	[1.42]§	[18]§
Scilly (St. Mary's)	1015.5	42.9	45.9	39.4	53		1899, 1907, 14	19	1881, 94, 1907	20	84	3.31	1.71	21
Falmouth	1017.3	45.6	49.1	42.3	57		1899	25	1894	21	76	2.98	1.90	23
Jersey (St. Aubin's)	1018.0	43.1	46.9	39.9	55		1888, 90, 96	20	1894	20	107	4.21	1.87	22
Portland Bill	1019.0	42.8	46.6	38.6	57		1899	12	1891	20	75	2.04	2.19	26
Dungeness	1016.6	39.4	43.8	34.7	55		1898	11	1893	16	48	1.90	—	—
Dover	[1015.5]§	[38.1]§	[43.2]§	[34.4]§	[55]§		[1914]§	[17]§	[1910]§	[18]§	[57]§	[2.25]§	[2.10]§	[25]§
Wick	1008.5	38.0	42.5	33.3	60		1898	4	1881	21	62	2.46	—	—
Nairn	1009.5	36.9	42.6	31.8	59		1887	4	1910	18	51	1.99	[1.35]‡	[18]‡
Aberdeen	1011.1	37.1	42.3	33.4	59		1898	4	1881	18	55	2.18	1.55	21
Leith	1012.0	39.2	44.0	34.2	58		1898	9	1881	15	42	1.66	—	—
Tynemouth	1013.5	38.5	43.5	33.6	58		1898	6	1881	15	41	1.63	—	—
Spurn Head	1014.3	38.3	42.1	34.7	55		1898	13	1881	15	35	1.36	[1.29]§	[16]§
Yarmouth	1015.9	37.8	41.8	33.7	57		1899	10	1881	18	44	1.74	[1.81]§	[22]§
Clacton-on-Sea	1016.8	37.7	41.8	33.9	[55]‡		[1914]‡	[18]‡	[1915]‡	14	34	1.34	1.87	23
Nottingham	1015.7	37.1	42.6	32.6	56		1882, 88, 98, 99	2	1881	19	40	1.81	1.10	14
LONDON (Kew Obsy.)	1017.5	38.3	43.1	34.6	56		1908, 10, 14	9	1881	16	45	1.76	1.39	17
Lerwick	1002.6	39.0	42.1	34.5	53		1910	17	1895	23	80	3.16	—	—
Stornoway	1004.0	39.2	44.1	34.2	55		1891	12	1892	22	113	4.46	2.06	22
Castlebay (Barra Isd.)	[1005.0]§	[42.7]§	[45.8]§	[38.9]§	[52]§		[1914]§	[27]§	[1912]§	[22]§	[91]§	[3.58]§	[1.76]§	[19]§
Eskdalemuir	[1007.6]¶	[35.4]¶	[41.9]¶	[31.6]¶	[51]¶		[1912]¶	[27]¶	[1912]¶	[22]¶	[183]¶	[7.19]¶	[1.60]¶	[16]¶
Malin Head	1005.8	40.7	[44.6]¶	[37.1]¶	[59]¶		[1891]¶	[20]¶	[1895]¶	[19]¶	[61]¶	[2.41]¶	—	—
Blackod Point	1008.0	42.9	[46.7]¶	[38.1]¶	[61]¶		[1891]¶	[23]¶	[1912]¶	[22]¶	[103]¶	[4.06]¶	—	—
Valencia	1010.6	43.5	48.8	39.7	58		1891	22	1895	21	132	5.20	2.48	25
Roches Point	1011.4	42.5	47.8	39.1	56		1889, 1896	25	1895, 1900, 02, 12	18	91	3.70	—	—
Birr Castle	1009.7	39.1	46.7	34.4	60		1912	6	1895	17	58	2.29	2.41	25
Donaghadee	1009.4	40.0	45.6	36.1	57		1897, 1901, 11	16	1895	18	58	2.20	—	—
Liverpool (Observatory)	1010.7	38.7	44.2	35.6	59		1885, 1898	12	1895	16	42	1.68	[2.66]§	[25]§
Holyhead	1010.2	41.9	45.4	38.0	59		1891	17	1895	17	63	2.43	[2.50]§	[26]§
Pembroke (St. Ann's Hd.)	1011.3	42.2	45.6	38.9	56		1903	23	1895	17	—	2.66	2.70	28
Scilly (St. Mary's)	1012.8	45.1	48.9	41.7	57		1896, 1899	27	1895	17	65	2.57	3.01	30
Falmouth	1013.8	42.6	47.1	39.6	58		1899	22	1895	17	94	3.70	2.98	30
Jersey (St. Aubin's)	1015.2	42.4	47.3	38.7	62		1891	18	1895	17	62	2.44	3.30	33
Portland Bill	1012.5	42.4	45.6	38.5	[54]‡		[1905]‡	[24]‡	[1912]‡	13	49	1.93	—	—
Dungeness	1012.9	39.5	44.5	35.2	57		1897	11	1889	15	41	1.60	—	—
Dover	[1014.1]§	[39.4]§	[45.6]§	[35.9]§	[56]§		[1913]§	[17]§	[1912]§	[17]§	[43]§	[1.68]§	[3.16]§	[32]§
Wick	1003.9	37.8	42.8	32.8	57		1897, 1903	2	1895	19	58	2.27	—	—
Nairn	1005.0	36.8	43.9	31.3	64		1891	0	1895, 97	17	46	1.80	[2.59]‡	[28]‡
Aberdeen	1006.7	37.7	43.2	33.4	64		1897	6	1895	17	52	2.05	2.59	28
Leith	1007.2	38.8	45.2	33.8	59		1882	12	1895, 1912	14	16	1.42	—	—
Tynemouth	1008.7	38.5	44.5	33.7	60		1898, 99	7	1895	14	35	1.37	—	—
Spurn Head	1010.0	38.7	43.0	35.1	61		1899	20	1895	14	31	1.21	[3.79]§	[29]§
Yarmouth	1012.1	38.1	42.9	34.0	60		1912	15	1895	15	38	1.49	[2.84]§	[29]§
Clacton-on-Sea	1012.9	38.1	42.9	34.4	[58]‡		[1903]‡	[18]‡	[1912]‡	12	32	1.25	2.94	30
Nottingham	1011.4	37.6	44.6	33.2	61		1899	2	1895	16	39	1.55	2.06	21
LONDON (Kew Obsy.)	1013.5	38.5	45.0	35.1	62		1899	11	1895	13	39	1.54	2.13	22
Lerwick	1005.7	38.3	42.9	34.4	57		1893	19	1891	25	80	3.14	—	—
Stornoway	1007.4	38.6	45.3	34.4	57		1894, 1907	13	1881	24	104	4.10	3.39	29
Castlebay (Barra Isd.)	[1006.7]§	[41.7]§	[45.7]§	[38.5]§	[52]§		[1911]§	[27]§	[1915]§	[22]§	[77]§	[3.02]§	[4.87]§	[33]§
Eskdalemuir	[1007.2]¶	[35.2]¶	[44.2]¶	[31.9]¶	[55]¶		[1910, 1915]¶	[16]¶	[1913]¶	[21]¶	[133]¶	[5.24]¶	[3.10]¶	[26]¶
Malin Head	1008.2	40.7	[46.0]¶	[37.7]¶	[62]¶		[1894]¶	[25]¶	[1906]¶	[21]¶	[59]¶	[2.32]¶	—	—
Blackod Point	1009.8	42.7	[47.9]¶	[38.6]¶	[64]¶		[1894, 1899]¶	[26]¶	[1891, 1900, 09]¶	[23]¶	[104]¶	[4.10]¶	—	—
Valencia	1011.8	43.4	50.0	39.9	66		1899	26	1899, 1901	21	115	4.54	3.97	34
Roches Point	1012.2	42.5	49.3	39.2	61		1899	27	1890	18	76	3.01	—	—
Birr Castle	1011.0	38.8	49.2	34.6	66		1894	18	1891	18	61	2.40	3.55	30
Donaghadee	1010.1	39.9	47.4	36.7	64		1892	25	1892, 1906	19	56	2.19	—	—
Liverpool (Observatory)	1011.0	39.6	46.9	36.9	65		1884, 94, 1907	21	1886	17	48	1.90	[3.52]§	[30]§
Holyhead	1010.8	41.9	46.9	38.4	67		1894	27	1881	18	67	2.62	[4.05]§	[35]§
Pembroke (St. Ann's Hd.)	1011.7	41.9	46.7	39.0	58		1899	26	1888, 1909	17	66	2.58	4.19	36
Scilly (St. Mary's)	1012.6	45.0	49.9	41.0	59		1893	30	1883, 90, 91	18	62	2.45	4.52	38
Falmouth	1013.4	42.7	48.7	39.8	66		1914	24	1890	18	88	3.46	4.45	38
Jersey (St. Aubin's)	1014.1	43.4	49.9	39.9	66		1893, 94, 1903	21	1890	18	64	2.51	4.74	40
Portland Bill	1011.8	42.7	47.5	39.1	[59]‡		[1900]‡	[26]‡	[1909]‡	15	51	2.02	—	—
Dungeness	1011.8	40.7	47.0	36.4	60		1903	12	1909	15	45	1.76	—	—
Dover	[1010.8]§	[40.8]§	[47.4]§	[37.0.										

\* Results for 30 years, 1886-1915.

† " " 16 " 1900-1915.

‡ " " 15 " 1901-1915.

§ Results for 9 years, 1907-1915.

|| " " 8 " 1908-1915.

¶ " " 6 " 1910-1915.

¶ Results for 5 years

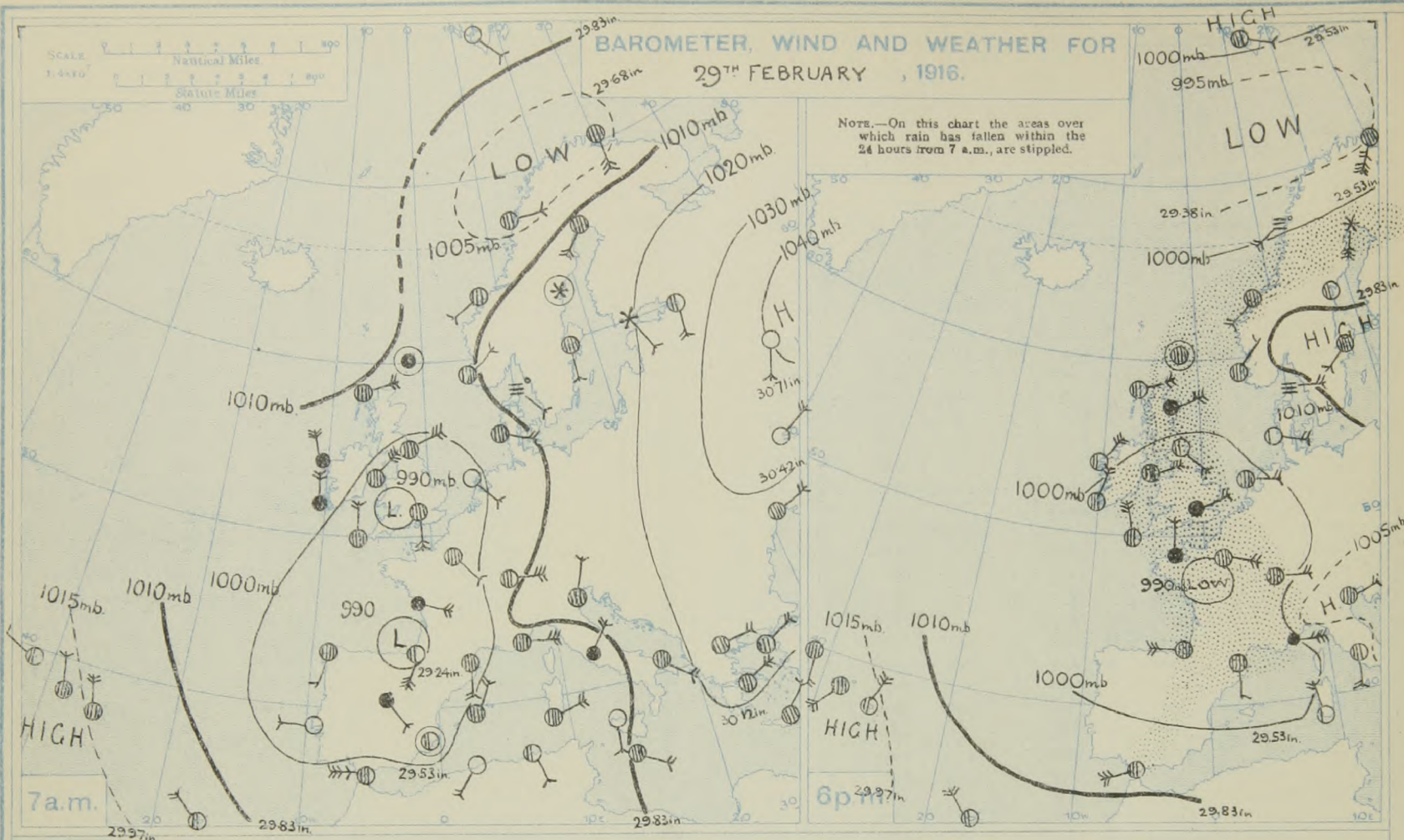


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 61.

WEDNESDAY,  
1<sup>ST</sup> MARCH.

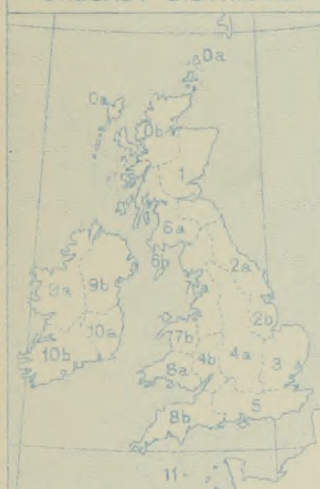
STATIONS.		YESTERDAY EVENING.				THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force				Dry Bulb.	Change in 24 hours.						Dir.	Force 0-12.	Max.	Min.	Morning.	
BRITISH ISLANDS.																					
Lerwick	1008.7	38	-	0	0	1005.9	-2	36	0	NNE	3	N	C	3	0.4	40	35	0	0	0p	Hours.
Deerness (Orkney)	1007.4	37	NE	4	bc	1005.1	*	35	-1	NW	3	SW	cp	3	1	42	34	c.bc	bc	bc, cp	8.5
Stornoway	1007.0	40	ENE	5	c	1006.0	0	37	-1	NE	5	.	cp	5	1	43	34	o.bc	bc.c	cpq	6.1
Castlebay (Barra)	1005.3	40	NNE	4	bq	1003.5	0	39	0	NNE	3	.	b	3	.	42	37	og.b	bq	bq.b	9.0
Glasgow	1000.5	36	NE	3	odg	998.6	-1	37	+2	ENE	4	.	ogd	*	1	40	34	csp.bc	orsp	rsp. op	2.9
Eskdalemuir	997.5	34	NE	6	o	997.3	0	35	+3	NNE	5	.	o	*	12	35	31	c.ops	ors. asd	aor	0.0
Malin Head	1000.9	41	ENE	6	cq	998.1	-1	40	+2	ENE	7	E	cmg	6	.	42	38	bcq	bcq	cmg	4.6
Blackod Point	1001.8	40	NE	5	bcp	1000.1	-2	40	+3	NNE	5	NE	om	4	0.3	42	37	bcp	bcp	cgom	*
Valencia	999.4	42	NNE	4	c	997.1	-1	42	+6	N	5	.	o	4	0.3	43	36	c.o	c	c.bc.c.o	3.8
Roche's Point	997.0	40	N	4	o	994.1	*	39	+5	NNW	4	NE	b	3	0.1	42	34	bcm	c.ogm	cp.bm	*
Birr Castle	997.8	39	N	3	c	995.2	*	36	+5	NNW	2	.	o	*	.	41	30	c	c	c.o	0.0
Donaghadee	997.4	38	NE	7	omrg	995.8	-2	39	+1	NE	6	NE	orm	6	5	41	37	ogmrg	omrg	ompq	*
Liverpool (Bidston)	994.4	36	E	3	o	990.3	-6	42	+10	NE	5	E	o	3	10	42	32	as	og	or	0.0
Holyhead	993.3	39	ENE	5	o	990.4	-2	41	+2	ENE	6	NE	orm	5	5	41	37	orm	om	o.bc.or	0.0
Pembroke (St. Ann's)	991.6	38	NE	2	om	985.3	-2	39	+1	NE	3	.	or	2	5	39	34	c	cm	aor	0.0
Scilly (St. Mary's)	991.8	40	NNW	5	cmg	987.9	-1	39	-1	NNE	2	.	omr	4	7	45	38	om	omqb	cp.omm	1.8
Falmouth	990.2	39	WNW	1	bc	987.2	-3	35	+2	N	1	.	odm	*	3	43	32	b.bc	cdp	adm.d	3.4
Jersey (St. Aubin)	990.1	39	N	2	ogmd	989.7	*	40	+6	SW	3	.	b	2	5	43	34	om	ogmd	ogmd.b	0.0
Portland Bill	990.8	39	NNE	1	og	988.3	0	41	+4	SW	3	SW	c	2	8	42	35	c	c.o	ors.c	*
Dungeness	990.2	46	ESE	3	r	990.7	0	40	-1	SW	3	.	r	3	4	47	40	c.o.c	c.or	or	*
Dover	991.6	45	ESE	4	o	991.0	0	42	+1	S	3	S	r	4	2	47	40	b.bc.c	bc.c.ee	opr	3.4
Wick	1006.7	39	ENE	3	c	1005.0	-2	39	+1	NNE	2	NE	C	4	1	40	36	cp.s	c	cm.og	*
Nairn	1004.9	38	ENE	4	ogu	1003.8	*	37	+1	NE	4	.	aug	3	2	40	34	pc.bc	ph.cq	up.c	1.7
Aberdeen	1003.8	38	ENE	5	org	1002.1	0	39	+1	NNE	4	.	r	4	7	43	38	bc.c	c.og	ogr	3.6
Leth	999.9	37	NE	6	r	999.2	-1	39	+1	NE	4	.	r	6	10	41	37	c.og.o	r	r	*
Tynemouth	997.1	40	SE	3	bcm	995.4	-3	41	+2	ESE	5	.	omr	4	8	42	38	omgr	bcm	omr	*
Spurn Head	995.6	39	S	3	o	991.8	0	39	0	E	4	.	o	4	1	42	38	bc.o	bc.o	o	3.3
Yarmouth	995.5	42	ESE	3	bc	992.4	-3	41	0	ESE	3	.	bcm	3	3	43	40	bc	bc	omr.bc	6.5
Clacton-on-Sea	992.9	44	E	4	o	990.5	0	41	0	ESE	2	.	o	2	2	44	40	c	c.og	ogr.og	3.4
Nottingham	994.3	37	NE	3	o	990.5	*	39	+2	E	3	E	rm	*	5	41	35	op	o.bc	or	2.4
Benson (Oxon.)	991.2	37	N	1	r	989.9	+3	36	+2	S	4	.	o	*	4	41	33	bc.b	or	r	*
St. Farnborough	991.0	39	NE	1	r	989.7	+3	36	+1	SE	1	.	om	*	7	44	34	o.c	c.odm	m.r. om	3.1
London (Kew) (Eng.)	991.8	43	ENE	3	omr	990.4	+3	39	+2	S	1	.	om	*	1	45	37	0	om. omr	omcd.o	2.1
NORTHERN EUROPE.																					
Spitsbergen	1000.4	1	ESE	2	C	999.3	+3	-4	+13	NE	8	*	bc	*	*	1	-27	UPPER AIR. South Farnborough. Pilot Balloon Ascent 7.20 a.m.			
Vardö	992.7	25	SW	9	o	991.8	0	+27	+4	SW	7	.	m	4	*	27	12	Wind at 500m. SW 16 mph.			
Bodö	997.3	34	SW	4	m	997.5	0	27	+3	SW	4	.	o	*	*	*	*				
Christiansund	1007.0	36	SW	3	o	1000.0	-5	36	0	W	5	.	S	3	Trace	37	34				
Skudesnaes	1008.0	36	NE	1	o	1001.5	-3	34	-2	.	0	.	o	1	Trace	37	27				
Friederikstad (Oslo)	1010.9	32	ENE	1	m	1005.9	-1	30	0	ENE	1	W	C	1	.	32	28				
The Scaev (Stagen)	1008.6	34	E	3	f	1004.8	-2	32	-2	ESE	2	.	f	2	.	34	28				
Blauvands Huk	1003.8	34	ESE	3	f	1000.3	-3	34	0	E	3	.	f	3	.	39	30				
RAINFALL																					
Equivalents of Millimetres in inches.																					
		mm.		Inches		mm.		Inches													
		1	0.04	25	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																
SOUTHERN EUROPE.																					
Corunna (7 a.m.)																					
Madrid (8 a.m.)																					
Lisbon (9 a.m.)																					
Gibraltar	1007.8	53	WSW	5	C	1007.1	*	47	-9	W	3	*	r	1	17	61	47				
Malta (8 a.m.)						1005.5	0	59	+2	SW	4	.	o	2	.	64	57				
YESTERDAY'S REPORTS																					
28 <sup>th</sup> ... 8 P.M., G.M.T.																					
Venice	1016.9	39	.	0	C	1012.3	0	43	7	NNE	2	*	o	4	Trace	*	*				
Turin	1015.6	37	.	0	r	1012.4	0	36	72	.	0	*	r	*	4	*	*				
Florence	1012.4	50	.	0	o	1008.7	0	46	+7	E	1	*	o	*	7	*	*				
Pesaro	1015.0	46	.	0	o	1010.4	0	46	+3	E	1	*	r	2	3	*	*				
Leghorn		.	.	.	.	1008.4	0	46	+5	E	3	*	o	4	6	*	*				
Rome	1011.9	50	N	5	o	1007.7	0	41	+2	NE	3	*	r	*	17	*	*				
Brindisi	1016.1	50	S	2	b	1014.2	0	50	+2	SE	3	*	o	2	*	*	*				
Cagliari	1008.5	59	SE	4	o	1004.3	0	54	+2	ESE	4	*	o	2	2	*	*				
Palermo		.	.	.	.	1008.7	0	63	+11	S	2	*	b	1	Trace	*	*				





**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.

South Coast.   
North Coast.

Signals hoisted this morning.

South Coast.   
North Coast.

No Warnings Issued.

Western Channel and Bay

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Northerly and North-Easterly winds, light or moderate, fresh locally; much cloud, rain at times, some mist; moderately cold. |
| 1  | b |   |  |
| 2  | a | } | Easterly and South-Easterly winds, light or moderate; much cloud, rain at times; moderately cold.                            |
| 3  | b |   |  |
| 4  | a | } | Wind between South-East and South West, light or moderate; generally overcast, occasional rain; moderate temperature.        |
| 5  | b |   |  |
| 6  | a | } | North-Easterly winds, moderate to strong; dull, rainy; moderate temperature.   |
| 7  | b |   |  |
| 8  | a | } | Northerly and North-Easterly winds, light to fresh; dull, occasional rain; moderate temperature.                             |
| 9  | b |   |  |
| 9  | a | } | Same as Nos. 6 and 7.  |
| 10 | b |   |  |
| 10 | a | } | Same as No. 8.   |
| 11 | b |   |  |
| 11 | a | } | Northerly and North-Easterly winds, light to fresh; sea moderate; some rain and mist.  |
| 11 | b |   |  |

**FURTHER OUTLOOK.**

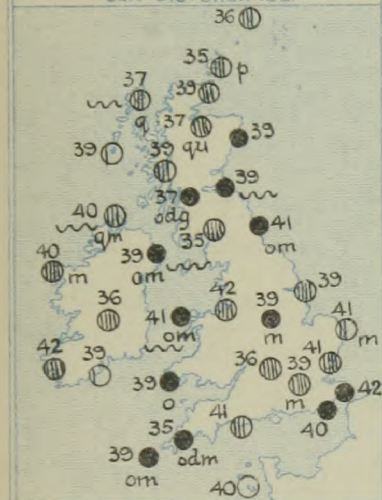


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 1<sup>ST</sup> MARCH, 1916.

## GENERAL INFERENCE.

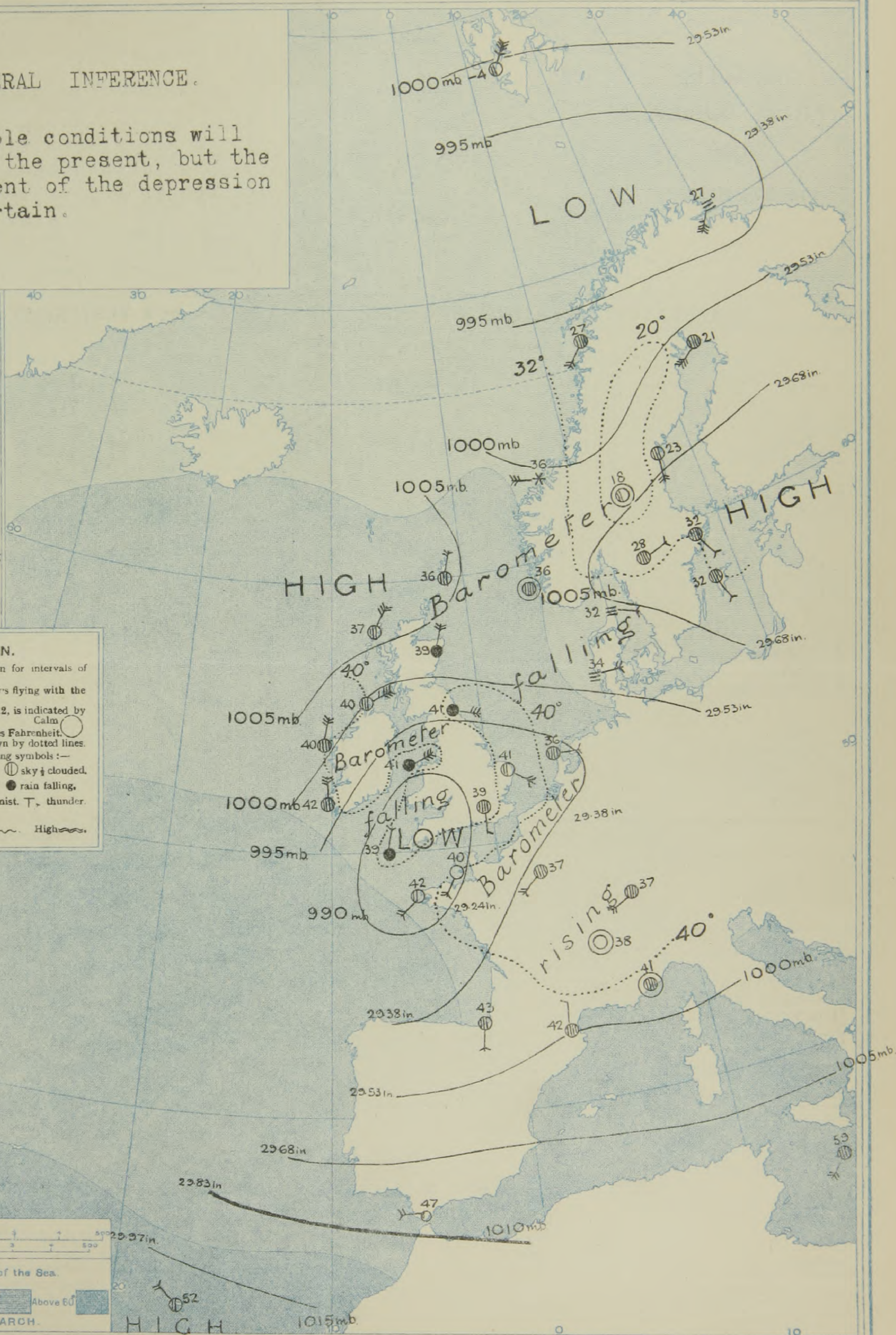
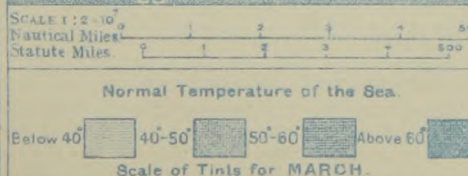
The unstable conditions will continue for the present, but the future movement of the depression is very uncertain.

### 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. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High .





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	722.29 AT 9 P.M. LOCAL TIME.						722.29 AT 7 A.M. LOCAL TIME.									
	Barom. Milli- bars at M.S.L.	Temp. ° F.	WIND.		Force 0-12.	Weather.	Barometer.		Temp.		WIND.		Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.
			Direc.	Force			Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force				
Archangel ...																
Uleaborg ...	1021.9	21	S	2	0		1015.4	-4	23	+5	SSW	4		*	0	*
Helsingfors ...	1023.6	18	ESE	2	0		?	-2	25	0	SSW	2		*	0	*
Hangö ...	1022.0	23		0	0		1017.6	-3	27	0	SSW	3		*	0	*
Riga ...														*		*
Petrograd ...	1027.7	18	SSW	4	3		1025.1	-2	12	-7	S	3		*	0	*
Moscow ...	1034.3	16	SSW	2	3		1040.0	0	1	-8	SSW	2		*	0	*
Kiev ...														*		*
Kharkov ...	1038.0	25	ENE	2	3		1037.1	-1	9	+4	ENE	3		*	0	*
Kishinev ...	1027.8	28	NE	2	0		1026.1	0	21		E	3		*	0	*
Elisabetgrad ...	1030.4	27	E	4	3		1030.4	0	18		NE	2		*	0	*
Nicolaiev ...	1026.7	27	ENE	5	3		1025.3	*	21		NE	6		*	0	*
Odessa ...	1025.9	14	ESE	5	0		1025.6	0	25		ENE	3		*	0	*

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.							England.						
{ Oban ...	1	43	33	bc	bc	6.0	{ Lowestoft ...	7	47	36	bc.c	c	6.3
{ Banff ...	6	41	36	bc.c.bc	o.bc.c	3.0	{ Felixstowe ...	9	44	34	bc	bc.o	6.0
{ St. Andrews ...				*	*		{ Walton-on-Naze ...	6	43	35	bc.c	bc.c	4.0
							{ Southend-on-Sea ...	4	45	34	bc.c	bc.c.o	2.5
Eng. N.E.													
{ Harrogate ...	6	37	30	r.o	o	0.0	{ Margate ...	7	47	36	bc.c	c.bc.c	3.6
{ Skegness ...	12	44	35	o.bc	bc.o	5.5	{ Ramsgate ...	12	43	35	bc	bc.o	4.3
							{ Hastings ...	6	46	41	or.bc	bc.or	2.2
Eng. N.W.							{ Eastbourne ...	4	45	38	bc.o	omr.	0.5
{ Morecambe ...	1	39	25	od	d.o	0.0	{ Seaford ...	1	46	37	c	o	0.5
{ Blackpool ...							{ Brighton ...	11	44	32	c.o	or	0.6
{ Southport ...	1	41	32	o.c.o	o	0.3	{ Worthing ...	8	45	33	c.bc	o	0.2
							{ Littlehampton ...	5	43	32	o.bc	r.o	0.2
Midlands.							{ Bognor ...	7	44	33	bc	bc.or	0.9
{ Buxton ...	5	33	30	c	o	0.0	{ Southsea ...	8	45	33	bc	or	1.8
{ Leamington Spa ...	8	40	30	o.c	c.cm	3.4	{ Bournemouth ...	7	42	30	c	c.or	2.8
{ Malvern ...	12	36	31	o	c.bc.b	0.0							
{ Ross-on-Wye ...	16	38	31	os	o.bc.c	0.2							
Wales.													
{ Rhyl ...	8	40	29			0.0	{ Weymouth ...	2	42	33	c.bc	bc.c.o	1.7
{ Colwyn Bay ...	9	39	34	r	bc.o	0.1	{ Torquay ...	1	42	33	bc.o	bc.o	2.5
{ Llandudno ...	7	39	34	rgr	g	0.0	{ Paignton ...	1	44	25	bc	m	2.1
{ Aberystwyth ...	3	40	35	r.o	c.o	0.0	{ Penzance ...	4	45	34	bc	ophr	3.8
{ Tenby ...	1	42	33	bc.c	o	0.1	{ Newquay ...	*	44	31	bc.c	bc.c	2.0
							{ Ilfracombe ...	5	42	30	ro.c	c.bc	0.8
							{ Weston-super-Mare ...	2	42	32	c.bc.b	b.bc	2.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obsy.) ...	78	94	2.8	45	38	37	2	o.c	o	od.or.g
City (Bunhill Row) ...	*	*	2.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	72	87	1.7	47	40	38	1	bc.om	u.de	od
Camden Sq. (Brit. Rainfall)	73	88	2.2	46	39	36	2	og.c	c.o	*
Hampstead (Reservoir) ...	*	89	1.7	43	35	32	2	o	o.or	od.or
Richmond Park	*	*								
Kew. (See front page.)	*	*	2.1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	70	90	2.7							
				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
				Total.		Average Rate.		Max. Rate.		
				579 Joules		14.9 Milliwatts.		4.6 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm § 2	° F. 40	° F. 35	° F. 32	op	cpoh	og	Hr. *
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9,								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	7	46	33	32	omr.s	omr.o	baod	*

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

1st and 2nd March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.40	12.5	5.30
Greenwich ...	6.49	12.12	5.38
Wick ...	7.11	12.25	5.49
Valencia ...	7.31	12.54	6.17

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.

Rain fell very generally, but the quantity was not large. Bright sunshine was very prevalent in the far north of Scotland and locally in England. Temperature exceeded 40° in nearly all localities.

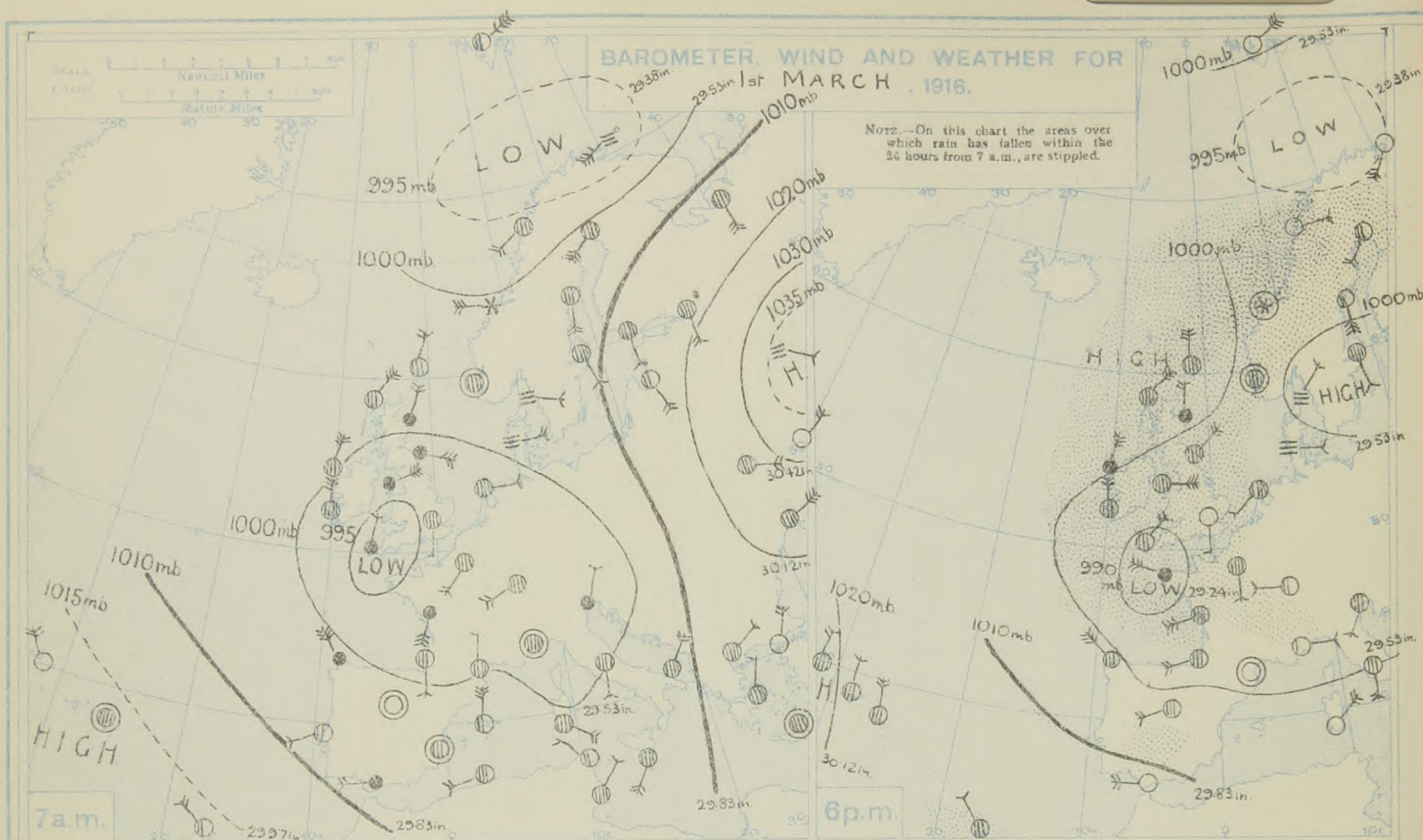
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 62. Thursday, 2<sup>nd</sup> March

	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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.		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	1003.5	33	N	5	0	999.0	-3	29	-7	N	5	bs	5	1	37	26	bc	bc.0	ops	Hours.	
	Deerness (Orkney)	1003.7	33	NNW	5	ops	999.0	*	30	+5	NNW	4	NW	4	1	39	30	c.0	ops.0	ops.c.b.c	0.2	
	Stornoway	1006.0	35	NR	6	eq	1001.8	-1	30	-7	N	3	0	4	2	41	30	bcq	br.oq	bc.opsq	3.1	
	Castlebay (Barra Isd.)	1004.5	40	N	5	eq	1000.1	-2	35	-4	N	3	0	3	1	43	33	b.oq	o.b.c.oq	oq.c.0	6.6	
	Glasgow	1000.1	38	NE	3	0	998.7	-2	30	-7	ENE	1	0	*	2	40	30	o.b.c.0	0	od.osp	0.3	
	Esksdalemuir	998.1	35	NE	6	od	997.2	-2	30	-5	NNE	4	0	*	3	36	29	o.0m	0rm.od	or.ors	0.0	
	Malin Head	999.9	41	NE	7	cmg	999.2	-2	37	-3	NE	5	E	6	1	42	35	cmg	cmg	0q	0.0	
	Blacksod Point	1000.9	40	NNE	6	omd	1001.2	-3	38	-2	NNE	5	NE	4	0.2	43	33	cmg	0q	0m.omp	*	
	Valencia	997.0	42	N	4	0	1001.2	0	40	-2	N	5	N	0	7	43	39	oph	op	o.0p	0.0	
	Roche's Point	994.7	42	N	4	0	998.8	*	39	0	NNW	4	0	3	1	42	38	0.p.m	0p.mg	0p.0	*	
	Birr Castle	996.3	40	N	2	r	998.9	*	35	-1	N	2	0	*	3	41	35	or	or	od.0	0.0	
	Donaghadee	997.9	41	NE	5	0m.g.p	998.0	0	34	-5	ENE	5	0	5	4	42	34	0m.r	0m.g.p	0m.rq	*	
	Liverpool (Bidston)	994.1	41	NE	4	0	994.5	-1	36	-6	NNE	1	E	2	3	45	34	0m	0m.d	0r	0.1	
	Holyhead	993.7	43	E	6	0m	994.9	-1	39	-2	ENE	4	0	3	2	45	39	0r.0m	bc.c.0m	0r.0m	0.8	
	Pembroke (St. Ann's)	992.6	40	NE	2	0m	993.8	-1	37	-2	N	1	0	1	3	41	35	0p	0m	c.0m	0.4	
	Scilly (St. Mary's)	987.7	41	NE	3	c	993.1	0	43	+4	NNW	5	N	4	10	44	39	0m.r	0m.c	0p.b.c	0.0	
	Falmouth	988.7	43	ENE	3	c	992.7	0	35	0	NNW	1	0	*	2	43	33	0d.0	0p.b.c.c	c.b.c	0.6	
	Jersey (St. Aubin)	990.0	43	ESE	4	c	987.1	*	40	0	NE	4	0	3	2	45	38	b.b.c	bc.c	0p.d	8.5	
	Portland Bill	991.0	44	ESE	4	0p	990.6	-1	34	-7	N	5	0	4	1	46	34	b.b.c	bc.p	c.b.c	*	
	Dungeness	993.9	41	SW	2	bc	990.4	-2	40	0	SSE	2	5	2	1	45	39	0.c.b.c	0.s.c	c.0.c	*	
	Dover	995.1	39	SW	1	b.r.z	991.4	-1	37	-5	SE	1	5	2	1	45	32	0.c.b.c	bc.b.c	bx.b.c	4.6	
NORTHERN EUROPE.	Wick	1003.7	35	N	3	0	999.8	-2	32	-7	N	3	0	3	0.4	39	30	0m.pg	0m.g	0m.x.p	*	
	Nairn	1003.3	36	NNE	3	r	1000.2	*	32	-5	NNE	1	0	2	3	38	31	dg	d.s.c	phg.c	0.0	
	Aberdeen	1001.9	36	N	3	r	998.5	-1	32	-7	NNW	3	0	3	5	40	32	or	or	0r.p	0.0	
	Leith	999.2	38	NE	4	r	997.9	-1	33	-6	NNE	2	0	4	9	40	32	r	r	0.s	*	
	Tynemouth	997.0	40	NE	4	0m	995.2	-2	37	-4	NE	5	0	5	1	42	36	0m	0p	0m.r	*	
	Spurn Head	994.3	41	E	3	0m	992.8	-1	37	-2	E	4	0	4	5	43	35	0m	0.c.m	0m.r	1.0	
	Yarmouth	994.5	41	W	1	c	991.0	-3	39	-12	NW	1	0	2	1	44	28	0m	0m	0m.b.c	2.6	
	Clacton-on-Sea	994.0	41	S	2	bc	991.6	-1	34	-7	N	3	0	2	2	45	32	0g.n.c	c.b.c	b.b.m.x	4.6	
	Nottingham	994.0	36	WSW	1	r	997.6	*	37	-2	NE	2	NE	*	6	42	35	0m.p	0d.m	r.0	0.0	
	Benson (Oxon.)	993.4	37	SE	1	b	992.4	-2	31	-5	NNE	3	0	*	0.3	44	30	0.b.c	bc.b	0m	*	
	St. Farnborough	993.2	38	SE	1	m	991.6	-1	31	-5	SE	2	0	*	0.4	44	26	m.r.0.b.c	0.b.m	0m.x	2.9	
	London (Kew Obs.)	992.3	42	S	1	b	992.0	-1	32	-7	N	1	0	*	1	46	30	0m.0m.0	0.c.b.c.0m	0m.b.m.g	1.5	
FRANCE, &c.	Spitsbergen	1001.7	-9	ENE	6	b	1001.6	+1	-11	-7	N	4	0	*	*	-4	-11	UPPER AIR.				
	Vardö	993.6	19	SW	5	b	997.6	+3	16	-11	WSW	3	0	2	*	18	16	South Farnborough.				
	Bodö	997.7	21	E	2	b	999.8	0	18	-9	E	4	0	2	2	30	19	Pilot Balloon Ascent at .....				
	Christiansund	999.0	30	0	0	S	995.5	-1	30	-6	E	2	0	3	2	36	28					
	Skudesnaes	999.1	34	0	0	0	992.3	-3	34	0	0	0	0	1	2	36	32					
	Færder (X'ania Fjord)	1001.0	30	0	0	m	994.6	-3	30	0	NE	2	0	1	30	28						
	The Scaw (Skagen)	1001.3	32	NE	2	f	993.3	-5	32	0	E	2	0	2	1	34	30					
	Blaavands Huk	996.2	34	E	2	f	990.7	-2	34	0	E	1	0	1	36	30						
	Haparanda	998.0	23	SW	4	bc	1001.2	+2	23	+2	W	2	0	*	3	27	21	GALES				
	Hernösand	999.8	28	S	6	bc	999.5	0	27	+4	N	2	0	*	1	30	12	Duration and Extreme Force				
Stockholm	1003.0	32	SSE	2	0	999.1	-2	32	0	SE	4	0	*	32	30	in British Islands.						
Wisby	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Karlstad	1003.3	36	SSW	2	0	996.2	-4	32	0	0	0	0	*	2	32	25						
FRANCE, &c.	The Helder	993.6	41	SW	1	0	991.0	-1	41	+5	WSW	2	0	C	1	41	36	Scilly (St. Mary's)				
	C. Gris Nez	994.0	39	S	2	b	990.6	0	36	-5	ESE	3	0	1	1	45	36	1 <sup>st</sup> 10h Squalls NNE.8.				
	La Hève	992.4	39	NE	2	0	988.7	*	37	0	ENE	3	0	2	1	41	37					
	Brest (St. Mathieu)	985.7	45	WNW	5	r	991.4	+1	41	-1	N	5	0	C	3	46	37					
	Rochefort (Ile d'Aix)	992.8	45	WSW	6	0	987.9	-3	44	+3	WSW	6	0	r	11	46	39					
	Biarritz	998.4	48	WSW	4	c	995.7	-2	48	+5	WSW	5	0	4	2	54	43					
	Paris	995.0	43	SSE	2	bc	990.3	-3	37	0	ESE	2	0	*	*	50	36					
	Belfort	998.9	37	W	2	bc	996.3	*	30	-7	ENE	2	0	*	*	44	25					
	Lyons	998.4	42	ENE	1	0	995.9	*	36	-2	S	2	0	*	*	49	34					
	Nice	995.8	45	E	2	b	993.5	-2	39	-2	E	1	0	3	1	54	37					
Perpignan	998.6	45	0	0	b	998.1	0	36	-6	0	0	0	*	*	54	32						
Sanguinaire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
SOUTHERN EUROPE.	Corunna (7 a.m.)	1003.1	50	NW	6	C	1002.3	-2	46	0	W	6	0	5	13	50	48					
	Madrid (8 a.m.)	1004.4	43	WSW	3	C	1007.3	0	37	+1	W	1	W	0	*	45	34					
	Lisbon (9 a.m.)	1003.0	51	W	4	b	1011.8	*	48	+1	W	3	0	1	1	58	47					
	Gibraltar	1013.9	51	W	4	b	1011.8	*	48	+1	W	3	0	1	1	58	47					
	Malta (8 a.m.)	...	...	...	...	...	999.5	+1	55	-4	NW	4	0	2	Trace	64	55					
Azores (Horta, 8 a.m.)	1018.3	61	N	2	C	1020.3	+1	55	...	0	0	C	2	...	66	54						
	Madeira (Funchal)	1018.6	61	NW	2	C	1015.4	0	59	+7	?	?	0	?	...	63	52					
YESTERDAY'S REPORTS		29 <sup>th</sup> FEB., 8 P.M. G.M.T.										1 <sup>st</sup> MARCH., 7 A.M. G.M.T.										
ITALY.	Venice	1006.0	44	ENE	3	0	997.2	-3	45	+2	NE	2	0	r	4	10	*	*	*	*		
	Turin	1004.1	33	0	0	S	999.7	-1	36	0	0	0	0	*	20	*	*	*	*			
	Florence	1001.5	51	0	0	0	996.2	-1	48	+2	0	0	r	*	18	*	*	*	*			
	Pesaro	1005.2	46	WNW	1	bc	997.2	-4	46	0	0	0	c	4	4	*	*	*	*			
	Leghorn	...	...	...	...	...	996.6	-3	59	+13	0	0	0	4	14	*	*	*	*			
	Rome	1004.9	55	S	3	C	1000.0	0	55	+14	S	2	0	*	1	*	*	*	*			
	Brindisi	1008.7	55	SE	3	C	1003.6	-6	55	+5	NE	4	0	*	4	*	*	*	*			
	Cagliari	1002.3	55	NNW	3	b	1001.5	0														





**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

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Northerly and North-Easterly winds, light or moderate to fresh; much cloud, some sleet or snow; low temperature.                   |
| 1  | b |   |  |
| 2  | a | } | Wind variable, then mainly between East and North, light to moderate; sky variable, some sleet or snow, mist or fog locally; cold. |
| 3  | b |   |  |
| 4  | a | } | North-Easterly and Northerly winds, moderate or fresh; snow or sleet showers; cold.  |
| 5  | b |   |  |
| 6  | a | } | Northerly winds, moderate or light; some, rain, sleet or snow; temperature low.  |
| 7  | b |   |  |
| 8  | a | } | Same as Nos. 6 and 7.  |
| 9  | b |   |  |
| 10 | a | } | Northerly winds, fresh to light, sea moderate; some showers of sleet or rain.  |
| 11 | b |   |  |

Millibars.  
1050—31

1040

1030

1020

1010

1000

990

980

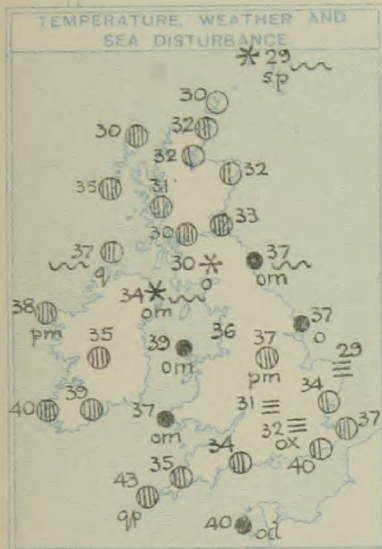
970



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 2<sup>nd</sup> MARCH, 1916.

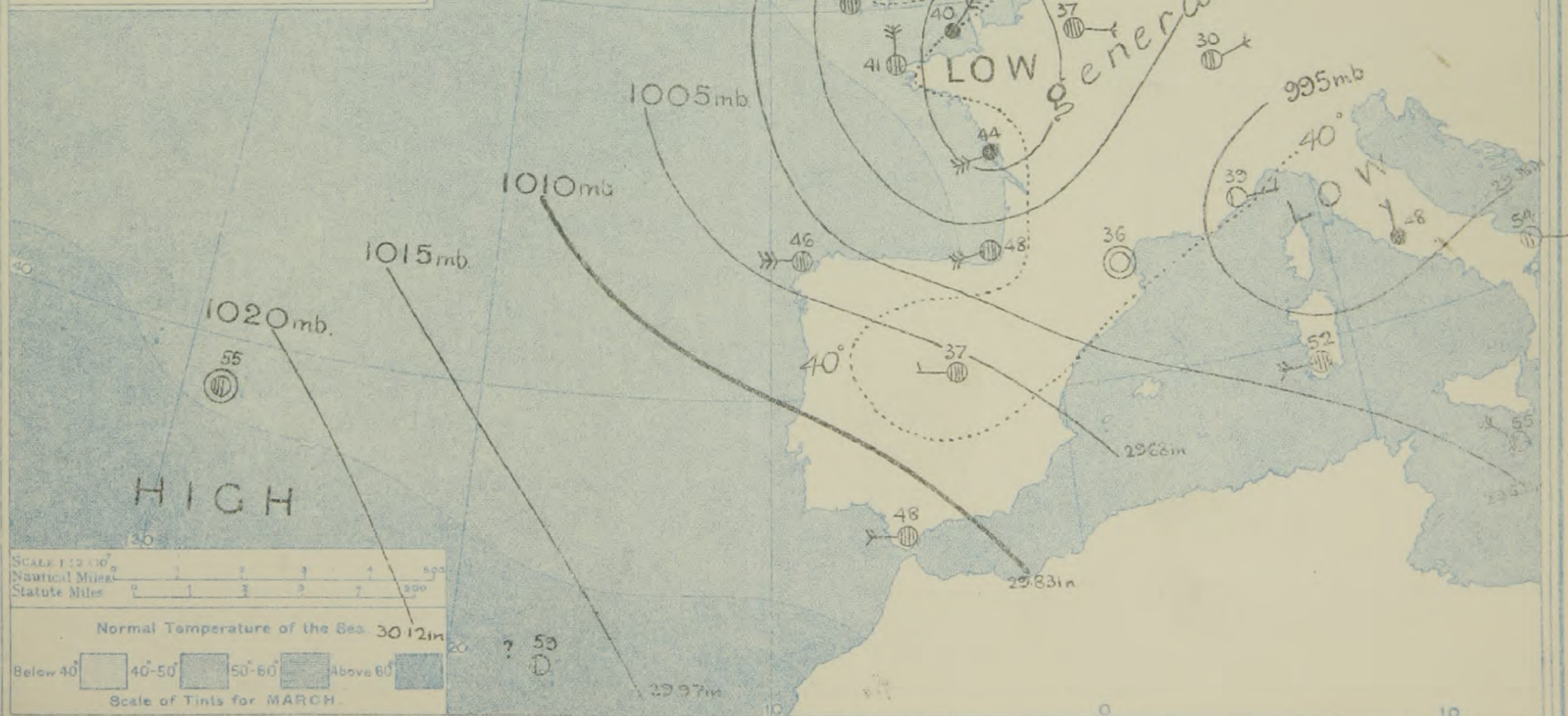
## GENERAL INFERENCE.

The depression over France will continue to affect the winds and weather in the United Kingdom.



## 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 & clouded. ○ sky & clouded.  
 ○ sky & clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	24 Feb. AT 9 P.M. LOCAL TIME.					24 March AT 7 A.M. LOCAL TIME.										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.	Sea 0-9.	Max.		Min.	
			Direc.	Force 0-12.						Direc.	Force 0-12.							
Archangel ...	1016.9	18	SW	2	b	1013.3	-2	21	.	S	5	*	0	0	-	*	16	
Uleaborg ...	1007.8	23	S	4	S	1003.9	0	22	0	SW	3	*	bc	*	*	*		
Helsingfors ...	1016.2	28	SSW	3	S	1014.1	-2	27	+2	S	2	*	0	0	4	*	*	
Hangö ...	1015.5	32	SSW	2	0	1013.3	-3	28	+1	S	2	*	0	0	?	*	*	
Riga ...	1019.0	27	SSE	2	b	1016.2	-2	21	.	SSE	4	*	bc	0	-	*	*	
Petrograd ...	1021.1	23	S	3	S	1019.4	0	25	+13	S	3	-	0	*	9	25	12	
Moscow ...	1037.1	18	SSW	3	b	1035.9	+1	0	-1	SE	2	*	f	*	-	*	1	
Kiev ...	1028.3	23	ESE	3	b	1025.2	-2	14	.	ESE	4	*	0	*	-	*	12	
Kharkov ...	1034.2	16	E	2	b	1032.2	0	7	-2	ENE	3	*	b	*	-	*	*	
Kishinev ...	1023.4	25	-	0	0	1021.0	-1	27	+6	A	4	*	0	*	-	*	23	
Elisabetgrad ...	1027.5	27	? E	4	b	1025.6	-1	16	-2	ESE	3	*	0	*	-	*	14	
Nicolaiev ...	1024.4	27	NE	6	b	1022.7	*	25	+4	ENE	6	*	0	0	-	*	18	
Odessa ...	1023.3	32	SE	4	0	1021.2	-1	30	+5	ESE	4	*	0	0	-	*	28	

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland. { Oban ...	~	43	35	c	0	0.0	England, E. { Lowestoft ...	3	47	39	c.o.c.	c.o.c.	0.9
{ Banff ...	1	40	36	op.r.d.	op.r.d.	0.0	{ Felixstowe ...	3	46	39	or	bc.	3.5
{ St. Andrews ...	3	40	37	*	*	0.0	{ Walton-on-Naze ...	4	44	40	or.c.c.	b.b.c.b.	4.0
Eng. N.E. { Harrogate ...	6	40	34	0	or.o.	0.0	{ Southend-on-Sea ...	1	46	38	c.o.b.c.	c.b.c.b.	2.8
{ Skegness ...	3	44	39	c.bc	bc.oy	2.2	England, S.E. { Margate ...	6	48	40	0	bc.	2.6
Eng. N.W. { Morecambe ...	~	44	36	0	0	0.0	{ Ramsgate ...	7	45	38	r.bc	bc.	4.0
{ Blackpool ...	~	44	34	0	0	0.0	{ Hastings ...	3	45	39	or.bc.	b.	5.6
{ Southport ...	3	42	34	c.o.c.	c.o.	0.2	{ Eastbourne ...	2	46	39	b	bm	7.0
Midlands { Buxton ...	~	44	36	0	0	0.0	{ Seaford ...	4	46	39	c	bc	6.3
{ Leamington Spa ...	2	40	34	omp.m	cm	0.0	{ Brighton ...	6	46	39	c.o.c.	c	5.9
{ Malvern ...	5	39	33	0	c	1.0	{ Worthing ...	3	48	39	c.bc	b	6.5
{ Ross-on-Wye ...	7	39	33	omr	cm	0.0	{ Littlehampton ...	~	45	39	o.bc	b	6.3
Wales. { Rhyl ...	7	45	35	or	0	0.0	{ Bognor ...	7	45	39	bcx	bc	6.5
{ Colwyn Bay ...	5	43	35	or	0	0.2	{ Southsea ...	3	47	37	bc	b	5.5
{ Llandudno ...	5	45	35	og	og	0.0	{ Bournemouth ...	5	48	34	c	c.b.	4.2
{ Aberystwyth ...	~	42	34	c.o.c.	c.b.o	1.0	England, S.W. { Weymouth ...	10	47	33	chay.b.	b.p.c.	3.9
{ Tenby ...	~	42	35	bc.c	bc.	0.5	{ Torquay ...	3	45	33	b.b.c.	bc.	4.7
							{ Paignton ...	3	47	26	bcm.	bc.	5.3
							{ Penzance ...	8	44	35	or	p.r.c.	0.4
							{ Newquay ...	*	43	32	as.c.bc.	ep.bc.	2.1
							{ Ilfracombe ...	~	44	32	bc	c.bc.	4.0
							{ Weston-super-Mare ...	5	45	34	c.bc.	bc.b.	1.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 75	% 93	Hr. 2.7	* F. 46	* F. 31	* F. 25	mm. § -	o.	c.o	bcx.
City (Bunhill Row) ...	*	*	1.6	*	*	*	*	*	*	*
Westminster (St. James's Pl.)	75	94	2.4	46	32	28	0.3	ad.c	bc	bc
Camden Sq. (Brit. Rainfall)	76	97	1.5	46	31	28	Trace	ad.o	bc	*
Hampstead (Reservoir) ...	*	100	2.0	44	27	23	.	bcfx	o.	oxmo
Richmond Park ...	*	*	*	*	*	*	*	*	*	*
Kew. (See front page.)	*	*	1.5	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	*	*	*	Total. 454 Joules		Average Rate. 112 Milliwatts.		Max. Rate. 43 Milliwatts.		
S. Kensington (Roof of M.O.)	72	92	2.0							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm § 19	° F. 43	° F. 36	° F. 34	oc h	ogr	rog	*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "	5	38	33	33	*	ors	o	0.0
Oxford to 8 p.m.	*	43	34	26	oc	o	bc. b	*
Teignmouth to 9,,	8	46	33	29	as bc	bc	bcoph	4.7
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	1	46	39	38	al. oe.	o. e3	bcg	*

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

2nd & 3rd March 1916.	Sunrise	Noon	Sunset.
Yarmouth ...	G.M.T. 6.40 3.30	G.M.T. 12.5	G.M.T. 3.30
Greenwich ...	G.M.T. 6.46 3.44	G.M.T. 12.12	G.M.T. 3.38
Wick ...	G.M.T. 7.8 3.5	G.M.T. 12.24	G.M.T. 3.41
Valencia ...	G.M.T. 7.28 3.28	G.M.T. 12.53	G.M.T. 3.43

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many places.  
Rain fell over the greater part of the Kingdom and  
thunderstorms occurred locally in the South-West.  
Several hours of bright sunshine were recorded in the  
South and South-East, as well as in the Hebrides.

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. and at the bookstalls at certain Railway  
Terminals in London.

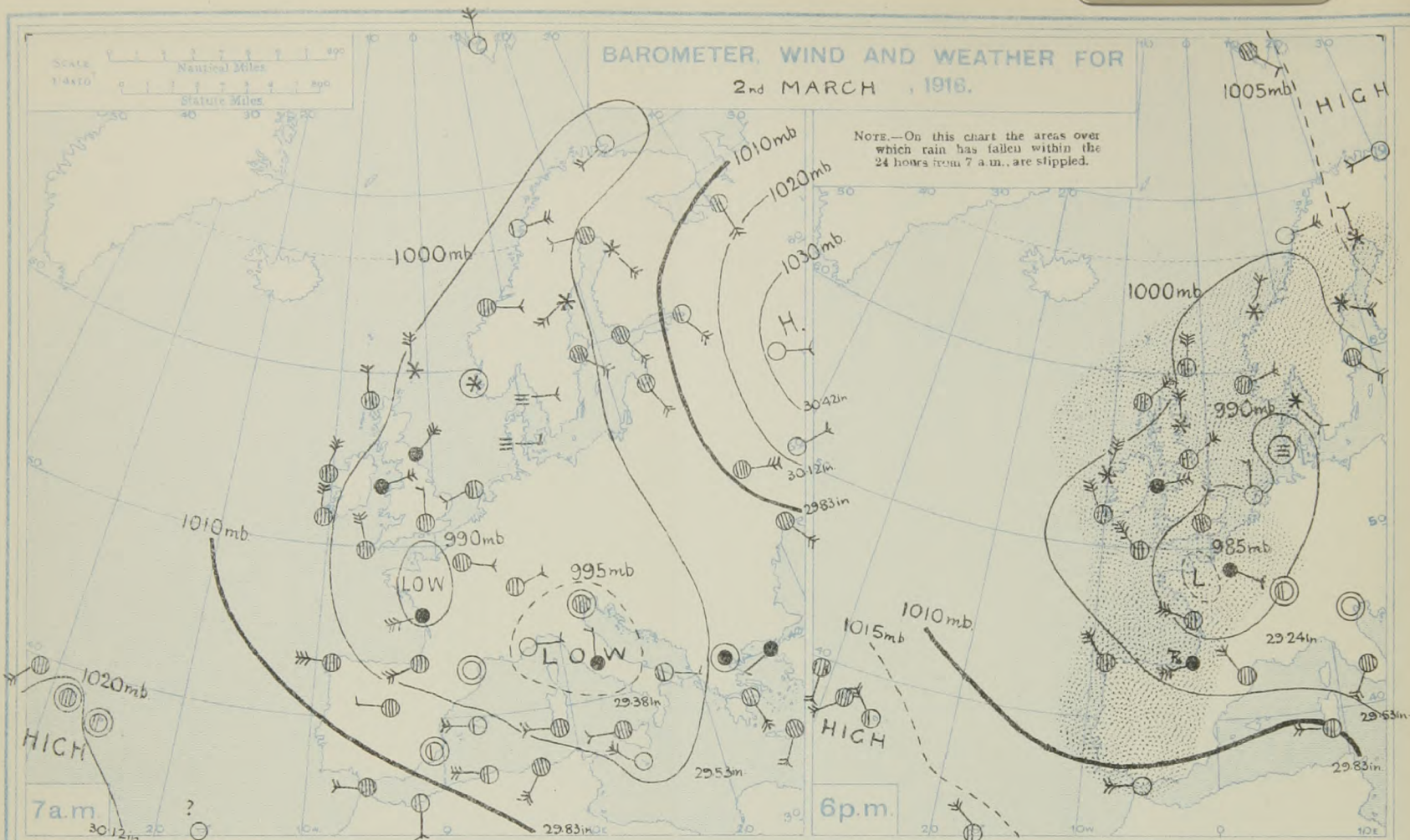


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 63.

Friday  
3<sup>rd</sup> March.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	Temp.		WEATHER.				
			Force	Dir.		Milli- bars at M.S.L.	Change in 5 hours.	Dry Bulb.	Change in 24 hours.	Force	Dir.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	997.7	35	N	6	c	1001.2	+1	32	+3	N	5	0	5	5	36	28	b.c.p.s.	b.c.	c.p.s.	Hours.	
	Deerness (Orkney) ...	998.3	30	N	7	c.p.s.	1001.3	+	31	+1	NNE	5	NE	5	4	35	30	b.c.p.s.	b.c.p.s.	c.p.s. b.c.	3.6	
	Stornoway ...	1003.3	29	NE	6	c.p.s.	1005.7	+2	31	+1	N	5	bcq	5	2	35	27	c.p.s.	c.p.s.	b.c.p.s.	4.6	
	Castell Bay (Barra Is.) ...	1002.0	34	NNE	4	b.c.p.s.	1006.2	+1	33	-2	N	5	N	5	1	37	30	c.p.s.	c.p.s.	b.c. b.c.	3.5	
	Glasgow ...	999.0	31	N	2	c	1002.1	+2	29	-1	NW	1	SE	1	0.1	35	28	a.c.c.	c	b.c. b.c.	0.7	
	Esksdalemuir ...	997.3	27	NNE	5	c	1000.0	+2	26	-4	N	4	c	1	31	23	ac	c	b.c.c.	0.2		
	Malin Head ...	999.5	35	N	6	c.p.s.	1002.9	+2	33	-4	NNE	6	N	6	2	37	33	c.p.s.	c.p.s.	c.p.s. x	1.2	
	Blackod Point ...	998.3	35	NNE	7	c.p.s.	1005.5	+2	32	-6	NNE	5	NE	5	5	42	30	c.p.s.	c.p.s.	c.p.s.	+	
	Valencia ...	?	40	NNW	6	c	1004.9	+2	36	-4	NNE	4	N	4	4	43	34	c.p.s.	c.p.s.	c.b.c. b.c.	0.6	
	Roche's Point ...	994.0	34	NE	1	r	1002.9	+	31	-8	NNW	4	b	3	3	43	31	c. b.c.m.	c.p.s.	c. b.c.	+	
	Birr Castle ...	994.7	38	NE	2	c	1003.7	+	27	-8	N	1	b	4	41	27	c	c	b.c.	1.9		
	Donaghadee ...	997.6	36	NE	5	c.p.s.	1001.6	+2	33	-1	NE	5	NE	5	2	38	32	b.c.m.	c.p.s.	c.p.s.	20.0	
	Liverpool (Bidston) ...	992.4	34	NNE	3	r	997.3	+2	32	-4	N	2	N	3	6	36	32	ors	ors	c.p.s.	0.0	
	Holyhead ...	993.3	36	ENE	6	opm	998.2	+2	36	-3	NE	6	NE	5	10	39	32	orm	orm	c.p.s.	0.0	
	Pembroke (St. Ann's) ...	990.4	37	NE	2	op	996.2	+2	35	-2	N	4	NE	3	6	39	32	orm	orm	c.p.s.	0.0	
	Scilly (St. Mary's) ...	990.3	40	NW	7	c.p.s.	993.1	+3	38	-5	NNE	7	N	6	3	44	37	c.p.s.	c.p.s.	c.p.s.	0.4	
	Falmouth ...	988.7	38	N	4	r	992.8	+5	35	0	N	6	c	9	41	34	b.c. ad	d.r.	c.p.s.	0.7		
	Jersey (St. Aubin) ...	987.0	43	NW	3	c	986.2	+	41	+1	N	4	op	3	5	44	37	ad. r.c.	b.c. ac	c.p.s.	0.3	
	Portland Bill ...	988.0	38	NNE	3	c.p.s.	988.9	+2	35	+1	NNE	5	NE	4	2	41	33	c	c	c.p.s.	+	
	Dungeness ...	987.6	44	ESE	2	r	985.7	0	37	-3	NE	5	rhq	4	19	45	34	r.c.c.	c.p.s.	c.p.s.	+	
	Dover ...	987.4	38	NNE	3	r	986.5	+1	39	+1	NNE	5	NE	4	15	45	35	c.b.c.	c.p.s.	c.p.s.	1.0	
NORTHERN EUROPE.	Wick ...	998.6	34	N	4	0	1001.6	+2	33	+1	N	4	0	3	1	35	28	c.p.s.	c.p.s.	b.c.p.s.	2.7	
	Nairn ...	1000.0	32	N	2	cu	1002.4	+	33	+1	N	3	cu	3	2	35	28	b.c.	c.p.s.	c.p.s.	6.1	
	Aberdeen ...	997.5	32	NW	4	s	1000.8	+2	30	-2	NW	5	b.c.	3	1	36	29	b.c.p.s.	b.c.p.s.	c.p.s.	+	
	Leith ...	997.3	39	NNE	2	c	1000.4	+2	31	-2	N	2	N	3	3	37	31	a.c. b.c.	b	c.p.s.	+	
	Tynemouth ...	994.4	36	NE	4	b.c.p.s.	996.5	+2	35	-2	N	5	N	5	2	37	33	umg	b.c.p.s.	c.p.s.	0.0	
	Spurn Head ...	990.7	39	ENE	5	r	992.5	+1	38	+1	NNE	6	c.p.s.	6	4	40	34	or	or	c.p.s.	0.0	
	Yarmouth ...	988.6	38	ENE	2	0	998.9	+1	39	+10	NE	5	b.c.	4	1	40	27	f.c.	0	c.b.c.	0.0	
	Clacton-on-Sea ...	988.3	39	NNE	2	c	988.0	0	38	+4	NNE	4	NE	2	1	39	32	b.c. om	acm	c.p.s.	0.1	
	Nottingham ...	990.7	36	NE	2	r	993.4	+	35	-2	NNE	4	N	0	6	37	32	orm	rs	c.p.s.	0.0	
	Benson (Oxon.) ...	990.2	38	NNE	1	0	991.1	+3	33	+2	N	4	s	3	40	30	c.p.s.	b.c. o	r.c.s.	+		
FRANCE, &c.	St. Farnborough ...	988.1	37	NE	1	m	989.2	+2	34	+3	NNE	4	oms	1	3	37	31	f.c. m.	h.o. m.	c.p.s.	0.0	
	London (Kew Obs.) ...	988.1	39	NE	2	0	989.5	+2	35	+3	NNE	4	oms	1	3	39	31	f.c. m.	h.o. m.	c.p.s.	0.0	
	Spitsbergen ...	1004.8	-24	SE	1	b	1006.3	+1	-29	-18	+	2	c	1	11	-38	UPPER AIR. South Farnborough. Pilot Balloon Ascent at ...					
	Vardø ...	1007.1	+16	W	2	b	1008.3	0	+19	+3	SW	2	0	2	12	+12	RAINFALL Equivalents of Millimetres in inches.					
	Bodø ...	1002.3	13	E	4	b	999.0	-2	23	+5	E	4	c	2	23	14						
	Christiansund ...	995.0	30	NNE	3	s	997.0	+2	32	+2	NE	2	s	3	46	34	30					
	Skudesnaes ...	990.9	32	ENE	2	0	992.8	+	28	-6	+	0	c	1	36	23						
	Færder (Xtania Fjord) ...	990.1	32	ENE	1	s	992.7	+2	30	0	N	2	m	1	32	30						
	The Scaev (Skagen) ...	990.0	32	SE	1	s	991.8	+1	34	+2	SSE	1	m	1	4	34	32					
	Blaavands Huk ...	989.7	36	+	0	m	990.9	0	32	-2	ENE	1	0	2	36	30						
	Haparanda ...	1005.6	25	N	2	s	1007.1	0	16	-7	?	4	s	1	5	27	14					
	Hernösand ...	1006.8	25	SE	4	s	1007.0	0	23	-4	ENE	4	s	1	2	32	21					
	Stockholm ...	997.6	28	SE	4	0	998.9	+2	30	-2	ESE	2	0	1	32	27						
SOUTHERN EUROPE.	Widby ...	996.2	30	SE	2	0	996.6	+1	30	-	SE	2	0	1	30	28						
	Karlstad ...	992.8	30	ESE	2	s	994.7	+3	30	-2	+	0	s	1	6	32	25					
	The Helder ...	989.7	37	N	1	b	989.5	+2	37	-4	NE	4	c	2	Trace	43	37					
	C. Gris Nez ...	986.7	39	E	3	r	985.3	0	39	+3	NE	5	0	3	2	45	36					
	La Hève ...	984.8	39	SE	1	r	983.1	+	37	0	NE	3	0	2	2	45	36					
	Brest (St. Mathieu) ...	984.3	43	NW	6	0	990.1	+3	36	-5	N	3	0	2	17	46	36					
	Rochefort (de l'Aix) ...	986.3	46	WNW	6	c	984.0	-3	41	-3	N	2	0	1	6	48	39					
	Biarritz ...	994.3	48	WSW	6	tr	988.4	-5	44	-4	WSW	8	0	7	22	50	41					
	Paris ...	985.0	41	SE	2	r	983.7	+1	37	0	+	0	r	1	3	46	37					
	Belfort ...	990.0	41	+	0	b.c.	988.3	+	35	+5	+	0	0	1	47	30						
	Lyons ...	990.0	41	S	3	r	987.9	+	37	+1	S	2	0	1	49	36						
ITALY.	Nice ...	994.1	44	W	4	b.c.	991.1	0	40	+1	WSW	2	c	4	55	37						
	Perpignan ...	995.4	46	NW	3	0	991.8	-1	39	+3	W	2	b	1	57	34						
	Sanguinaire ...	?	50	WNW	5	0	?	+	48	+	W	4	0	5	55	43						
	Corunna (7 a.m.) ...	1004.2	52	NW	5	0	1003.7	+3	48	+2	NNW	6	c	5	8	52	45					
	Madrid (8 a.m.) ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?					
	Lisbon (9 a.m.) ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?					
	Gibraltar ...	1010.1	51	W	4	b	1010.8	+	49	+1	W	5	b	2	Trace	57	47					
	Malta (3 a.m.) ...	?	?	?	?	?	1004.3	-1	55	0	SSW	3	b	1	59	50						
	Azores (Horta, 8 a.m.) ...	1019.5	?	N	3	0	?	?	?	?	?	?	?	?	?	?	?					
	Madeira (Funchal) ...	1019.1	66	NW	4	b.c.	1016.7	+2	57	-2	NE	3	N	3	68	57						
YESTERDAY'S REPORTS		8 P.M. G.M.T.																				
ITALY.	Venice ...	996.1	43	SW	2	c	994.8	-2	41	-4	+	0	0	4	Trace	+	+	RAINFALL Equivalents of Millimetres in inches.				
	Turin ...	996.0	41	+	0	b	994.0	0	36	0	+	0	c	1	+	+	+					
	Fiorenze ...	997.5	48	+	0	r	993.5	-5	46	-2	+	0	r	1	16	+	+					
	Pesaro ...	996.3	48	S	2	b	994.1	-3	45	-1	+	0	r	2	+	+	+					
	Leghorn ...	?	?	+	?	+	995.1	-3	50	-9	W	4	0	5	13	+	+					
	Rome ...	1000.0	54	S	3	c	994.8	+2	48	-7	N	2	+	1	16	+	+					
	Brindisi ...	1002.2	41	SE	4	b.c.	996.2	-8	54	-1	ESE	2	b	3	Trace	+	+					
	Cagliari ...	1000.2	57	NE	4	b	997.5	0	52	-2	W	4	+	1	+	+	+					
	Palermo ...	1003.6	57	E	2	b	999.6	0	48	+	W	2	+	3	7	+	+					





#### 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 1)

##### FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Northerly and North-Easterly winds,

moderate or fresh generally, strong at times; much

cloud, some rain, sleet or snow; fairer intervals;

temperature low.

Northerly winds, fresh or strong, sea rather rough; showery, rain or sleet.

Millibars

1050—31

1040

1030

1020

1010

1000

990

980

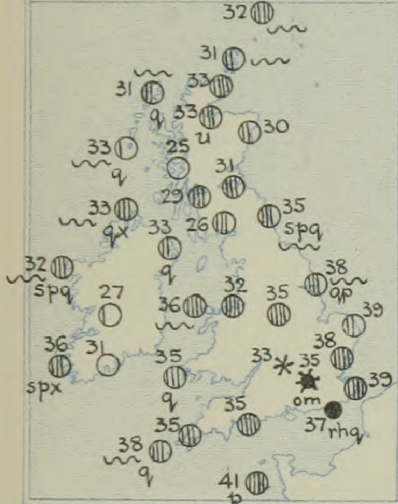
970



GENERAL INFERENCE.

There are no 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 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 1:2-10  
 Nautical Miles  
 Statute Miles

Normal Temperature of the Sea.

Below 40 40-50 50-60 Above 60

Scale of Tints for MARCH.

1015mb

1010mb

1005mb

1000mb

1005mb

rising

995mb

generally 990mb

985mb

LOW

Barometer

falling

29.09 in.

29.24 in.

29.38 in.

29.53 in.

29.68 in.

29.83 in.

29.97 in.

30.12 in.

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# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...1st. AT 9 P.M. LOCAL TIME.					...2nd. 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.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
			Direc.	Force 0-12.						Direc.	Force 0-12.								
		°F.						°F.											
Archangel ...	1013.3	7	SE	5	bc	1012.9	0	19	-2	3	4	*	C	0	-	?			
Uleaborg ...	1006.4	30	S	3	0	1006.7	0	25	+2	SS E	4	*	S	0	-	*			
Helsingfors ...	1008.4	0	S	2	0	1007.5	-1	18	-9	SS E	2	*	0	0	Trace	*			
Hangö ...	1007.9	3	-	0	0	1005.3	-1	23	-5	SS E	4	*	0	0	-	*			
Riga ...	1007.5	25	-	0	0	1005.9	-1	5	-16	SS E	4	*	0	0	-	*			
Petrograd ...	1015.0	21	SS E	4	0	1014.3	0	12	-13	SS E	4	N	bc	*	-	27			
Moscow ...	1030.7	7	SE	3	C	1033.9	+2	2	+2	SS E	2	*	0	*	Trace	?			
Kiev ...	1017.6	23	SS E	2	0	1011.5	-4	21	+7	SS E	3	*	0	*	-	12			
Kharkov ...	1026.2	16	SS E	2	0	1022.2	-1	7	0	E	2	*	0	*	-	*			
Kishinev ...	1014.7	28	SE	4	0	1005.1	-4	32	+5	SS E	4	*	S	*	-	25			
Elisabetgrad ...	1017.6	30	SS E	4	S	1012.4	-4	30	+14	SS E	5	*	0	*	-	27			
Nicolaiev ...	1016.4	28	NNE	2	0	1009.2	*	32	+7	E	3	*	0	0	-	18			
Odessa ...	1015.9	30	SS E	4	0	1008.0	-5	34	+4	SS E	4	*	0	0	1	28			

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
		mm. §	° F.	° F.						mm. §	° F.	° F.			
Scotland.	{ Oban ... ..	—	37	30	bc	c	1.5	England, E.	{ Lowestoft ... ..	—	39	25	bc. f.	om	0.0
	{ Banff ... ..	3	37	31	bc	bc. s. o.	5.8		{ Felixstowe ... ..	0.2	39	25	bc. f.	om	0.0
	{ St. Andrews ... ..	1	36	32	*	*	6.2		{ Walton-on-Naze ... ..	0.3	38	28	omed. c.	o. c.	0.0
									{ Southend-on-Sea ... ..	—	40	29	o. c.	o. c.	0.4
Eng. N.E.	{ Harrogate ... ..	10	32	32	rs	s. o.	0.0	England, S.E.	{ Margate ... ..	—	44	36	c	c	0.5
	{ Skegness ... ..	6	42	37	o. bc	bc. op.	1.0		{ Ramsgate ... ..	—	44	26	c	3.0	1.4
Eng. N.W.	{ Morecambe ... ..	—	—	—	—	—	—	England, S.E.	{ Hastings ... ..	1	43	37	o	or	0.0
	{ Blackpool ... ..	—	—	—	—	—	—		{ Eastbourne ... ..	0.3	43	36	o	o. od.	0.0
	{ Southport ... ..	10	40	34	o. rs	o. rs. o.	0.9		{ Seaford ... ..	1	43	37	o	o	0.0
									{ Brighton ... ..	—	43	37	o	o	0.0
Midlands	{ Buxton ... ..	5	36	32	cs	os	0.0	England, S.W.	{ Worthing ... ..	—	45	36	c	o	0.6
	{ Leamington Spa ... ..	1	37	31	of	of.	0.0		{ Littlehampton ... ..	0.3	42	35	o. bc	bc. o.	1.4
	{ Malvern ... ..	3	35	28	m	m	0.0		{ Bognor ... ..	—	42	35	bc	bc. g.	1.7
	{ Ross-on-Wye ... ..	3	37	29	of	omr	0.0		{ Southsea ... ..	—	42	30	o. c.	or	1.7
									{ Bournemouth ... ..	4	42	30	o. c.	or	1.7
Wales.	{ Rhyl ... ..	1	36	35	or	or	0.0	England, S.W.	{ Weymouth ... ..	2	40	32	z. b.	bc. bz.	5.7
	{ Colwyn Bay ... ..	10	28	34	or	or	0.0		{ Torquay ... ..	0.4	46	32	z. b. c.	bc. c. od.	4.6
	{ Llandudno ... ..	8	41	34	r	r	0.0		{ Paignton ... ..	1	45	27	z. bc.	c. op.	5.1
	{ Aberystwyth ... ..	3	39	33	ro. c.	or. o.	0.0		{ Penzance ... ..	8	44	36	or	or	0.0
	{ Tenby ... ..	3	41	32	bc. dr.	or	0.0		{ Newquay ... ..	*	41	34	o. op.	or	0.0
									{ Ilfracombe ... ..	—	—	—	—	—	—
									{ Weston-super-Mare ... ..	0.3	40	32	o. c.	cr. c.	0.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 92	% 95	Hr. 00	° F. 38	° F. 32	° F. 32	mm. 1		0.00	0.05
City (Bunhill Row) ...	*	*	00	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	93	00	40	34	34	3	me	bc. ul	od
Camden Sq. (Brit. Rainfall)	93	96	00	38	32	31	3	0.00	0.00	
Hampstead (Reservoir) ...	*	87	00	37	31	28	3	0	0	0.05
Richmond Park ...	*	*	00	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	00							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 138 Joules		Average Rate. 3.5 Milliwatts.		Max. Rate. 9 Milliwatts.		
S. Kensington (Roof of M.O.)	90	99	00							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day.
		In Screen.	Min.					
		Max.	Min.					
Dublin to 4 p.m.	mm. §	38	34	32	ors	os	c. b.	Hr.
Darwen to 9 p.m.								
Manchester "								
Birmingham "								
Oxford to 8 p.m.								
Teignmouth to 9 "		44	35	29	bc. b.	b.	bc. p.	5.3
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)		45	33	22	bc. b.	om	om	*

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

3rd March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.38	12.5	5.32
Greenwich ...	6.44	12.12	5.40
Wick ...	7.3	12.24	5.43
Valencia ...	7.26	12.34	6.20
	7.24	12.33	6.22

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 36° at several northern stations and below 40° over a very large area. Snow, sleet or rain fell very generally, and except in Scotland and locally in the South-West of England 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.

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



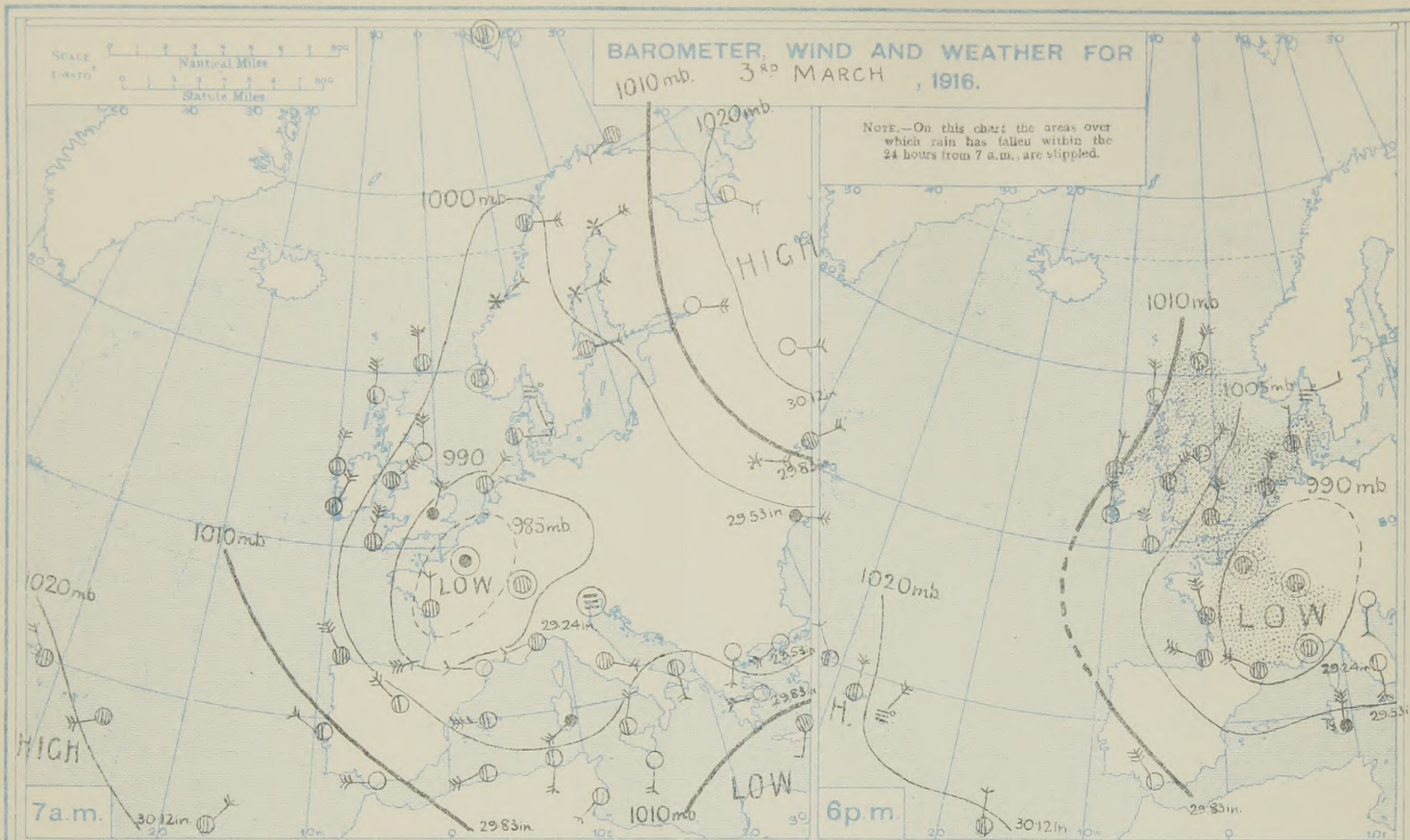
## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 64.

Saturday

14th March.

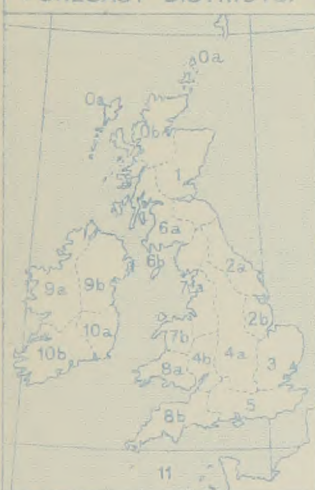
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.		
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	1006.8	35	NNE	5	bc	1009.2	+1	31	-1	N	3	N	bc	3	2	38	29	bc, sp	bc, sp	bc, sp	Hours.	
	Deerness (Orkney) ...	1007.1	32	N	4	bc, ps	1010.5	+	32	+1	NW	4	NE	bcu	4	1	37	32	bc, ps	bc, ps	bc, ps	3.2	
	Stornoway ...	1010.1	33	N	4	bc	1013.9	+2	32	+1	N	4		bc	4	2	33	29	bc	bc, ps	bc, ps	6.9	
	Castletown (Barrisd.) ...	1010.1	35	NW	3	bc	1014.3	+1	34	+1	N	2		o	2	35	31	bc, b	bc	bc, ps	9.4		
	Glasgow ...	1007.4	35	WNW	1	b	1012.9	+3	28	-1	W	1	N	bc	*	40	26	bc, c	b	b	8.8		
	Esksdalemuir ...	1006.2	29	N	3	b	1012.4	+3	25	-1	NE	2		b	*	34	24	c	c, bc, b	b	5.8		
	Malin Head ...	1008.4	37	NNE	6	bc, sp	1013.0	+2	37	+4	NNE	4	N	cp	4	1	37	32	bc, ps	bc, ps	cp	4.3	
	Blackrock Point ...	1012.2	35	NNE	2	bc	1014.8	+2	34	+2	NNE	2	NE	bc	2	0.4	38	32	cp, ps	bc	bc	*	
	Valencia ...	1009.4	35	N	4	b	1015.4	+3	33	-2	NNE	2		bx	*	41	30	c, bv	bcv	b, bx	9.2		
	Roche's Point ...	1008.9	37	NNW	4	b	1015.3	*	31	0	NNW	3		b	2	40	30	b	b	bx	*		
	Birr Castle ...	1008.3	38	N	1	b	1015.1	*	20	-7	NW	1		b	*	39	20	bc	cp, b	bx	8.2		
	Donaghadee ...	1007.0	38	NNE	4	bc	1013.0	+4	35	+2	N	4	N	b	3	38	33	bc	bc	bc, ps	*		
	Liverpool (Oldston) ...	1003.7	35	NNE	3	s	1010.8	+2	32	0	N	1		b	2	39	31	bc, s	bc, b	bx	2.7		
	Holyhead ...	1004.5	40	NE	6	c	1011.6	+3	36	0	NE	4	NE	b	3	Trace	41	36	o, bc	bc, ps	c, bc, ps	5.8	
	Pembroke (St. Ann's) ...	1003.7	36	N	4	bc, sp	1011.6	+2	33	-2	NNE	2		b	2	40	32	bc, sp	bc, sp	b	6.3		
	Scilly (St. Mary's) ...	1001.8	37	NNW	6	c	1010.1	+4	39	+1	NE	4	N	bc	5	5	41	36	cp, ps	cp, ps	cp, ps	2.8	
	Falmouth ...	1001.3	38	N	5	b	1011.0	+	30	-5	N	1		b	Trace	41	30	cp, bc, sp	bc, sp	bx	4.5		
	Jersey (St. Aubin) ...	993.5	39	NNE	5	ogr	1005.8	*	39	-2	NNE	4	N	c	3	10	42	35	ogr	ogr, gr	ogr, c	0.1	
	Portland Bill ...	1002.7	37	NE	5	op	1006.8	+5	33	-2	N	4		bc	4	39	33	c, o	op	o, c, bc	*		
	Dungeness ...	992.3	40	NE	6	rg	1001.9	+4	34	-3	E	5	NE	bc	4	2	43	34	o	ogr, h	or, c	*	
	Dover ...	993.9	39	NNE	6	o	1002.6	+5	35	-4	NNW	5	N	c	4	1	41	33	o	ogr, h	ops, c	0.0	
	Wick ...	1007.1	32	NNW	3	s	1010.9	+1	34	+1	NNW	2		c	2	1	37	30	cmphs	c, bc, ps	bc, ps	*	
	Nairn ...	1007.6	33	N	2	bc	1012.6	*	32	-1	N	1		bc	2	0.4	36	30	sp, bc	bc	q, bc, sp	3.4	
	Aberdeen ...	1005.9	33	NW	3	b	1010.9	+2	31	+1	NW	4		bc	3	3	41	29	o, sp, b	b, bc, sp	bc, sp	7.4	
	Leith ...	1005.4	37	N	1	b	1011.7	+2	32	+1	NNW	1	N	c	3	40	30	b	b	b, bc, c	*		
Tynemouth ...	1002.9	38	NE	4	bc, sp	1004.5	+3	32	-3	NW	3	N	bc, ps	4	1	41	30	bc, ps	bc, sp	cp, s	*		
Spurn Head ...	1000.1	39	ESE	5	bc, sp	1006.8	+1	36	-2	NNE	5		bc, sp	5	1	41	34	cp, b	bcv	bc, sp	0.1		
Yarmouth ...	996.1	38	NE	5	c	1004.0	+6	37	-2	NE	6		bc, sp	5	Trace	39	35	ogr, ps	ogr, ps	bc, sp	8.0		
Clacton-on-Sea ...	994.9	38	NNE	4	o	1003.9	+7	34	-4	N	3	NE	bc	2	8	38	34	ogr, ps	ogr, ps	ogr, c, bc	0.0		
Nottingham ...	1000.7	36	NE	3	b	1008.1	*	32	-3	N	3	N	b	*	0.1	40	31	cp, s	ch, b	cp, s, b	2.2		
Benson (Oxon.) ...	998.1	37	NNE	5	o	1007.9	+5	30	-3	NNW	4		o	*	1	39	30	sp, ov	o	b	*		
St. Farnborough ...	996.8	36	N	4	r	1006.7	+5	32	-2	NNW	3	W	c	*	3	36	30	s, ov	r	o, bc	0.0		
London (Kew Obs.) ...	997.0	37	NNE	5	o	1006.8	+5	33	-2	N	3	N	bc, s	*	4	38	32	sm, r, or	or, o	o, bc, c, bx	0.0		
NORTHERN EUROPE.	Spitsbergen ...													*				UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....					
	Vardø ...													*									
	Bodø ...														*			RAINFALL Equivalents of Millimetres in Inches.					
	Christiansund ...														*								
	Skudesnaes ...														*								
	Færder (Xaniafjord) ...														*								
The Scaw (Skagen) ...	994.9	34	ESE	1	m	1001.0	+3	34	0	SSE	1		f	1	4	36	32						
Blaavands Huk ...	995.7	26	N	1	o	1000.6	+4	30	-2	NE	1		h	1		39	28						
Haparanda ...														*			mm.    inches    mm.    inches.						
Hernösand ...														*									
Stockholm ...														*									
Wisby ...														*									
Karlstad ...														*									
FRANCE, &c.	The Helder ...	994.7	37	NNE	5	o	1000.6	+5	37	0	N	3	E	bc	1	Trace	39	36					
	C. Gris Nez ...	991.0	40	NNE	6	o	1001.1	+5	39	0	NNE	7	*	o	6	5	45	36					
	La Hève ...	993.0	39	N	3	o	1001.9	*	36	-1	NNE	5	*	o	5	6	43	36	1    0.04    26    1.02				
	Brest (St. Mathieu) ...	994.1	41	N	5	c	1008.0	+5	37	+1	N	2	*	o	3	6	43	34	2    0.08    27    1.06				
	Rochefort (Ile d'Aix) ...	991.3	41	NNW	6	o	1001.7	+6	39	-2	N	6	*	bc	5	46	39	3    0.12    28    1.10					
	Biarritz ...	993.6	46	WNW	6	o	1003.3	+2	45	+1	WNW	5	*	clrh	6	15	48	41	4    0.16    29    1.14				
	Paris ...	988.8	39	N	2	o	997.7	+5	34	-3	N	3		s	2	39	34	5    0.20    30    1.18					
	Belfort ...	994.3	36	*	0	o	993.5	*	32	-3	WSW	2	*	m	1	41	31	6    0.24    31    1.22					
	Lyons ...	988.0	39	SSW	2	o	995.1	*	35	-2	NNW	3	*	o	1	42	35	7    0.28    32    1.26					
	Nice ...	987.4	36	*	0	c	986.4	0	36	-4	*	0	*	o	4	?	?	8    0.32    33    1.30					
Perpignan ...	994.7	45	WNW	4	o	996.2	+4	41	+2	WNW	3	NW	b	*	Trace	55	39	9    0.35    34    1.34					
Sanguinaire ...	*					*	*							*				10    0.39    35    1.38					
SOUTHERN EUROPE.	Corunna (7 a.m.) ...													*				11    0.43    36    1.42					
	Madrid (8 a.m.) ...													*				12    0.47    37    1.46					
	Lisbon (9 a.m.) ...													*				13    0.51    38    1.50					
	Gibraltar ...	1013.9	55	NW	6	b	1013.2	*	53	+4	W	5	*	bc	1	2	59	48	14    0.55    39    1.54				
	Malta (8 a.m.) ...	*	*	*	*	*	1013.8	0	57	+2	SW	3		b	2		63	52	15    0.59    40    1.58				
Azores (Horta, 8 a.m.) ...	1020.2	*	N	4	c									*				16    0.63    41    1.61					
Madeira (Funchal) ...	1020.2	61	N	2	c	1020.0	0	55	-2	NW	2	N	o	2		63	55	17    0.67    42    1.65					
YESTERDAY'S REPORTS		2nd March, 8 P.M., G.M.T.					2nd March, 7 A.M., G.M.T.																
ITALY.	Venice ...	992.7	45	*	0	b	998.2	0	41	0	*	0	*	f	4	1	*	*	18    0.71    43    1.69				
	Turin ...	991.2	43	*	0	o	990.1	0	37	+1	*	0	*	o	*	-	*	*	19    0.75    44    1.73				
	Florence ...	993.5	45	*	0	c	992.2	+1	43	-3	*	0	*	o	*	Trace	*	*	20    0.79    45    1.77				
	Pesaro ...	993.2	43	*	0	b	993.0	0	43	-2	*	0	*	o	2	22	*	*	21    0.83    46    1.81				
	Leghorn ...						992.3	+1	48	-2	SW	3	*	c	1	?	*	*	22    0.87    47    1.85				
	Rome ...	996.2	56	SW	4	o	995.4	0	46	-2	SE	5	*	o	*	9	*	*	23    0.91    48    1.89				
	Brindisi ...	994.9	50	SW	4	b	?	+5	46	-8	S	5	*	c	2	18	*	*	24    0.95    49    1.93				
	Cagliari ...	1010.6	57	W	4	c	997.6	0	52														





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.

South  
Coast.

North  
Coast.

Signals hoisted this morning.

South  
Coast.

North  
Coast.

No Warnings  
Issued.

Western Channel and Bay 1)

Northerly or North-North-Easterly winds,  
light or moderate; fair generally, but local wintry  
showers, temperature low.

Northerly and North-Easterly winds, moderate;  
sea rather rough to moderate; fair generally.

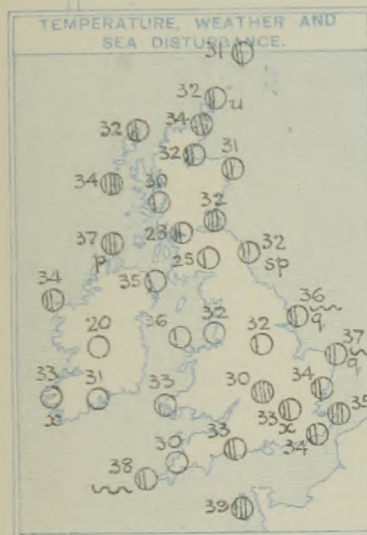
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 4<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE

The high pressure system will probably continue to extend over these Islands.



## 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.  
 Ts, thunderstorm.  
**SEA DISTURBANCE.**—Rough High .

SCALE 1:10,000  
 Nautical Miles 0 1 2 3 4 5  
 Statute Miles 0 1 2 3 4 5

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°  
 Scale of Tints for MARCH.

HIGH

generally

LOW

1020mb

1010mb

1015mb

1005mb

1000mb

995mb

990mb

29.83in.

29.68in.

29.24in.

29.21in.

29.21in.

29.97in.

29.12in.



REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	2 <sup>nd</sup> AT 9 P.M. LOCAL TIME.					3 <sup>rd</sup> AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall, Milli- metres.	TEMP. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Dir. of Upper Cloud.	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.								
Archangel ...	10155	21	S	4	bc	10208	0	7	-12	SE	3		bc	0						
Uleaborg ...	10060	23	SE	4	0	10074	0	18	-7	SE	3		0							
Helsingfors ...	10074	19	SE	3	b	10059	0	25	+7	E	2		s	0						
Hangö ...	10046	23	-	0	0	10038	0	25	+2	ESE	3		s	0						
Riga ...																				
Petrograd ...	10126	23	SE	4	b	10132	+1	12	0	SE	4		b							
Moscow ...	10233	10	SE	3	b	10240	0	0	-2	ESE	3		b			24	10			
Kiev ...	10044	28	ESE	5	s	10026	0	28	+7	ESE	4		s				-2			
Kharkov ...	10155	21	ESE	3	0	10143	-1	18	+11	E	3		0				27			
Kishinev ...	9986	34	-	0	f	9951	-2	36	+4	-	0		f			3	30			
Elisabetgrad ...	10050	32	ESE	4	s	10013	-3	32	+2	ESE	4		0				28			
Nicolaiev ...	10037	36	ESE	5	0	9983	*	34	+2	ESE	6		0				27			
Odessa ...	10000	37	SSE	4	f	9954	-3	36	+2	ESE	4		0			5	26			

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							England, E.						
Oban ...	...	41	24	b	b	8.0	Lowestoft ...	4	39	37	or	or	0.0
Baird ...	2	40	32	bc	bc	4.1	Felixstowe ...	12	39	32	or	or, bc	0.0
St. Andrews ...	...	41	28	*	*	8.5	Walton-on-Naze ...	...	...	...	...	...	...
England, N.E.							Southend-on-Sea ...	5	38	33	as, a	od, c	0.0
Harrogate ...	2	37	29	s, c, bc	b, bc, c	4.6	Margate ...	4	42	37	op	op	0.0
Skegness ...	1	41	34	c, bc	bc	5.6	Ramsgate ...	7	46	36	nc	o	0.0
England, N.W.							Hastings ...	14	39	25	or	or, o	0.0
Morecambe ...	...	38	32	bc	bc	4.2	Eastbourne ...	8	40	35	oprs	oprs	0.0
Blackpool ...	...	...	...	...	...	...	Seaford ...	10	39	34	r	r	0.0
Southport ...	0.3	43	32	c, bc	c, ops, c	5.5	Brighton ...	...	...	...	...	...	...
England, S.E.							Worthing ...	8	38	35	or	or	0.0
Buxton ...	...	...	...	...	...	...	Littlehampton ...	8	37	34	r, o	d, r	0.0
Leamington Spa ...	1	40	33	o, c	o, c	0.0	Bognor ...	6	38	36	o	o	0.0
Malvern ...	3	39	29	o	c	0.3	Southsea ...	...	...	...	...	...	...
Ross-on-Wye ...	3	39	30	o	o	0.2	Bournemouth ...	1	40	33	od	od	0.0
England, S.W.							Weymouth ...	0.1	40	33	bc, c	c, c, y	0.6
Rhyl ...	0.4	38	30	bc	bc	1.6	Torquay ...	...	42	34	bc	bc	5.3
Colwyn Bay ...	...	38	32	bc	bc	0.4	Paignton ...	1	42	27	bc	o	4.6
Llandudno ...	1	39	33	c, b	b	3.6	Penzance ...	8	42	35	ops, c	c, y, c	2.4
Aberystwyth ...	4	39	32	r, o, c	c, bc	8.0	Newquay ...	*	40	34	as, op	cp	2.5
Tenby ...	1	42	40	bc	b	7.7	Ilfracombe ...	...	...	...	...	...	...
Wales.							Weston-super-Mare ...	...	41	31	bc	b, bc, c	0.6

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obs.) ...	91	81	0.0	37	32	28	5	or	as or	o. bc
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pl.)	91	84	0.0	38	33	29	4	or	or	as, m, o
Camden Sq. (Brit. Rainfall)	92	81	0.0	38	31	27	4	or	or	*
Hampstead (Reservoir) ...	*	86	0.0	35	29	23	3	or	or	or, c, x
Richmond Park ...	*	*		VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	90	84	0.0	Total. 230 Joules		Average Rate. 5.8 Milliwatts.		Max. Rate. 18 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm § 3	° F. 39	° F. 30	° F. 27	op h d x	δ c c	c	Hr. *
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*	39	33	29	o c o	o	o c	*
Teignmouth to 9 "	-	41	34	32	δ c	δ c	δ c	4.7
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	6	40	35	34	o m q o c	o c	o c o	*

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

4th March 1916.	Sunrise	Noon	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.31	12.5	5.32
Greenwich ...	6.42	12.5	5.36
Wick ...	7.3	12.24	5.45
Valencia ...	7.24	12.53	6.22

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° over the greater part of the Kingdom and fell to below 32° at night. At Birr Castle the reading was 20°. Showers of rain, sleet or snow were experienced in many districts, but much sunshine was recorded in Ireland, Wales and Scotland.

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 1s per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Terminals in London.

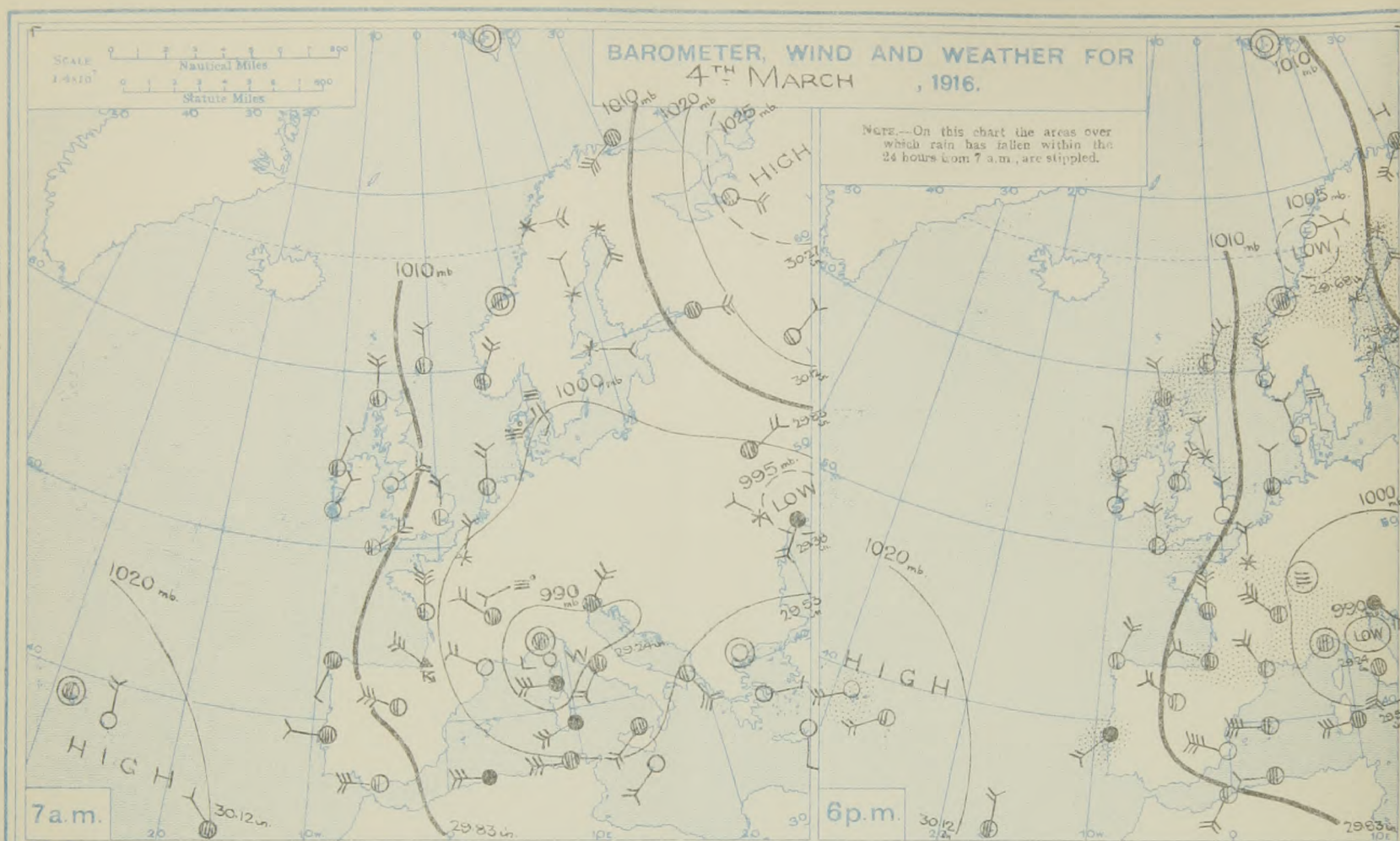


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 65

Sunday  
5th March

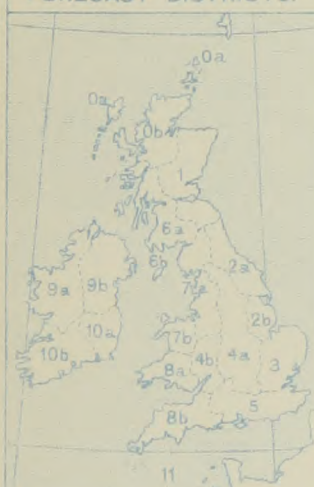
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.							Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud	Weather.	Sea 0-10.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick	1012.0	34	NNE	3	bc	1015.9	0	32	+1	N	3	-	bc	3	1	26	28	bc o	bc.	bc.	Hours.	
	Deerness (Orkney)	1011.2	35	NNE	4	c	1016.2	0	34	+2	N	5	N	o	3	3	37	33	bc cps	o prs c	c. bc c o	2.1	
	Stornoway	1015.5	37	NNW	3	o	1016.6	+1	35	+3	N	1	-	o	1	3	40	32	or	or o.	bc o.	0.5	
	Castlebay (Barra Isd.)	1016.5	41	NW	4	op	1019.0	+1	39	+5	N	5	-	b	2	1	42	32	o bc o	o bc op	o bc p b	2.5	
	Glasgow	1015.5	36	NW	2	o	1017.5	+3	31	+3	NW	1	E	bc	0	40	28	bc c	bc c.	o. bc o b	6.2		
	Eskdalemuir	1015.7	28	NW	2	bc	1016.6	+2	28	+3	N	2	NE	b	3	-	36	23	b	b	bc o bc	9.6	
	Malin Head	1017.5	39	NNE	4	bcv	1017.7	0	41	+4	NW	4	NW	bc	0.4	44	35	bcv	bcv.	bc.	3.1		
	Blacksod Point	1018.5	38	NNW	1	bv	1019.2	0	38	+4	NNW	1	-	ev	2	1	41	34	bcv	bcsp.	bc c p	*	
	Valencia	1018.4	39	N	2	b	1019.0	0	39	-4	NE	2	NE	ce	3	-	43	28	hac b	b bc b	b bc	9.2	
	Roche's Point	1017.9	41	NNW	2	bc	1019.9	0	32	+1	NNW	1	-	b	2	0.3	44	31	b bc	bc.	c. o. bc	*	
	Birr Castle	1017.7	38	NNW	1	c	1019.2	0	27	+7	W	1	-	c	0	42	20	c	c	o. bc	7.6		
	Donaghadee	1016.3	38	N	3	bc	1016.6	+2	39	+4	NNE	3	-	cg	3	0.2	42	35	bc	bc.	cgmpb	*	
	Liverpool (Bidston)	1015.5	35	NW	2	b	1015.1	0	33	+1	WSW	1	W	o	1	2	39	32	b	b	b. bc	7.7	
	Holyhead	1015.5	38	NE	4	c	1015.5	-1	40	+4	NE	5	NE	cp	5	1	43	36	bc c	c bc c	b bc o p	8.6	
	Pembroke (St. Ann's)	1015.7	36	N	2	cgps	1017.6	0	37	+4	NW	1	NE	c	1	1	42	31	cgps	cgps.	b. bc	5.3	
	Scilly (St. Mary's)	1014.8	40	NNW	4	bc	1016.6	0	37	-2	NE	1	N	c	3	1	44	37	bc	bc.	bc p cg	9.1	
	Falmouth	1014.5	36	NNE	5	cgps	1017.2	+1	28	-2	NW	1	-	bc	0	Trace	43	28	b	b ps cg	bc.	9.7	
	Jersey (St. Aubin)	1016.4	41	N	3	bc	1016.4	0	38	-1	NE	3	NE	c	3	0.1	43	35	bc	bc	bc sp b	7.7	
	Portland Bill	1012.2	39	N	3	bc	1015.5	+1	33	0	NNW	2	N	bc	3	10	41	31	bc	bc	b bc c	*	
	Dungeness	1008.1	28	ENE	3	bc	1012.5	+2	29	-5	N	2	N	bc	2	-	40	29	c o c	cg c.	bc bc	*	
	Dover	1009.1	36	N	5	b	1012.6	+2	31	-4	NW	4	NW	b	2	-	40	30	c	c bc	bc	9.0	
NORTHERN EUROPE.	Wick	1011.3	36	NNW	3	o	1016.7	+2	35	+1	NNW	3	N	o	2	2	39	33	omps	omph	c omg	*	
	Nairn	1013.9	35	NW	1	ow	1017.5	0	33	+1	NW	1	-	cg	2	1	37	31	bc cg	drs c	cg bc	0.7	
	Aberdeen	1012.3	34	W	4	bc	1015.8	+1	34	+3	N	3	-	o	2	1	37	30	bcsp	c o sp	c bc	3.1	
	Leith	1014.1	37	W	1	o	1016.3	+1	35	+3	NNW	1	N	c	2	-	39	32	b	b	o c bc	*	
	Tynemouth	1013.5	36	NNW	2	bcmps	1013.8	0	35	+3	N	3	N	bcps	4	5	37	30	cmpr	bcps	bcps	*	
	Spurn Head	1011.9	37	N	6	bc.	1013.2	0	35	-1	NNW	5	-	o	5	3	41	31	bcg	bcg	bcg p	6.6	
	Yarmouth	1009.8	38	NNE	4	bc	1012.7	+2	33	+4	NNW	2	-	c	2	Trace	42	31	bcg	bcg	bc p q	7.7	
	Clacton-on-Sea	1010.0	38	NNW	3	bc	1012.7	0	31	-3	NW	3	N	bc	2	-	42	30	bc	bc	bc bc	4.9	
	Nottingham	1013.3	37	N	3	o	1013.8	0	33	+1	WNW	1	W	cm	0	-	41	29	b bc	bc cm	o c b	7.9	
	Benson (Oxon.)	1011.8	36	N	3	b	1015.4	0	24	-6	N	1	-	b	0	-	40	23	bc c	bc c	b	*	
FRANCE, &c.	St. Farnborough	1011.4	37	N	2	e	1013.0	0	26	-6	W	1	NW	b	0	-	40	25	c bc c	bc c	o bc	5.7	
	London (Kew Obs.)	1011.8	35	N	2	bm	1014.8	+1	30	-3	NNW	1	N	bm	0	-	41	29	c bc c	c bc c	b bc	6.3	
	Spitsbergen	1009.9	-27	-	0	b	1014.4	+4	-11	+16	-	0	0	0	0	11	-23	-	-	-	-	-	
	Vardø	1011.9	25	SW	5	o	1016.3	+3	25	-2	SW	5	-	o	3	0	27	18	-	-	-	-	
	Bodø	1004.8	25	E	2	b	1012.0	+4	28	+3	ESE	2	-	c	2	0	30	23	-	-	-	-	
	Christiansund	1008.6	30	-	0	o	1012.2	+3	25	-5	-	0	-	o	4	15	32	23	-	-	-	-	
	Skudesnaes	1006.9	32	N	4	b	1007.0	-1	27	-3	N	5	-	b	2	-	36	25	-	-	-	-	
	Færder (Xtania Fjord)	1006.1	32	N	2	o	1006.6	-1	28	-2	N	4	-	s	2	0	32	28	-	-	-	-	
	The Scaw (Skagen)	1004.7	34	S	1	f	1003.8	-1	32	-2	E	1	-	f	1	0	36	22	-	-	-	-	
	Blavands Huk	1005.3	36	NNW	2	b	1006.1	0	36	+6	NW	2	-	bc	3	-	37	28	-	-	-	-	
SOUTHERN EUROPE.	Haparanda	1011.3	23	S	4	s	1016.7	+3	23	+4	S	4	-	o	0	7	23	19	-	-	-	-	
	Hernösand	1007.5	27	NE	2	s	1011.0	0	27	0	ENE	2	-	s	0	3	30	25	-	-	-	-	
	Stockholm	1005.7	34	SE	2	s	1005.7	0	30	-2	SE	2	-	o	0	5	36	30	-	-	-	-	
	Wisby	1004.8	34	SSE	2	o	1004.0	0	30	0	SE	2	-	o	1	2	36	28	-	-	-	-	
	Karlstad	1006.1	32	-	0	o	1006.3	-1	28	0	E	2	-	o	0	0	36	25	-	-	-	-	
	The Helder	1007.4	37	N	2	c	1009.3	0	36	-1	NNE	2	NW	b	1	-	41	36	-	-	-	-	
	C. Gris Nez	1008.2	37	N	6	o	1011.9	+3	36	-3	NNW	4	0	c	3	1	41	26	-	-	-	-	
	La Hève	1008.0	37	NNE	4	c	1012.4	0	36	0	NE	3	0	c	4	-	41	34	-	-	-	-	
	Brest (St. Mathieu)	1013.5	39	NNE	3	bc	1016.6	0	34	-3	NE	3	0	b	3	-	43	32	-	-	-	-	
	Rochefort (Ile d'Aix)	1008.2	43	N	5	r	1010.3	0	37	-2	N	6	0	o	0	-	43	36	-	-	-	-	
ITALY.	Biarritz	1008.2	43	NNW	3	o	1010.4	+2	34	-11	ENE	2	0	s	4	12	46	34	-	-	-	-	
	Paris	1004.3	32	N	4	s	1010.3	+3	32	-2	N	3	W	b	0	9	36	32	-	-	-	-	
	Belfort	999.1	34	-	0	f	1003.8	0	34	+2	ENE	2	0	f	0	4	43	32	-	-	-	-	
	Lyons	1001.5	36	NW	6	c	1003.6	0	32	-3	NW	4	0	s	0	-	43	32	-	-	-	-	
	Nice	992.2	37	-	0	c	995.0	+1	39	+3	-	0	0	bc	3	Trace	43	34	-	-	-	-	
	Perpignan	1003.3	43	NW	4	bc	1005.1	+2	39	-2	WNW	3	-	b	0	Trace	50	37	-	-	-	-	
	Sanguinaire	990.0	37	-	0	c	990.0	0	37	0	-	0	0	o	0	0	37	37	-	-	-	-	
	Corunna (7 a.m.)	1012.3	48	NNE	5	bc	1015.8	0	41	-4	NS	1	-	b	3	0	50	39	-	-	-	-	
	Madrid (8 a.m.)	1009.6	45	NNW	3	bc	1011.4	+3	34	-2	N	3	-	b	0	0	46	30	-	-	-	-	
	Lisbon (9 a.m.)	1005.3	50	SW	3	r	1010.7	+3	45	-5	NNW	4	NW	b	6	12	54	45	-	-	-	-	
YESTERDAY'S REPORTS	Gibraltar	1005.3	50																				





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

Wind light or moderate from some Northerly point; mostly fair, but hail, sleet or snow showers locally; temperature continuing low.

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

#### FURTHER OUTLOOK.

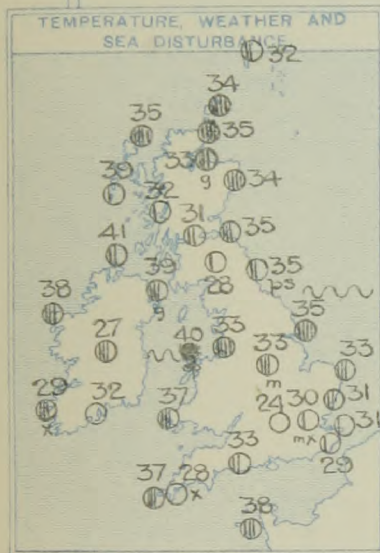


# SYNOPTIC CHART FOR 7 a.m., SUNDAY, 5<sup>TH</sup>

MARCH, 1916.

## GENERAL INFERENCE.

The barometric changes in progress are very slight, and no important modification in the pressure distribution is anticipated.



## EXPLANATION.

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

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

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

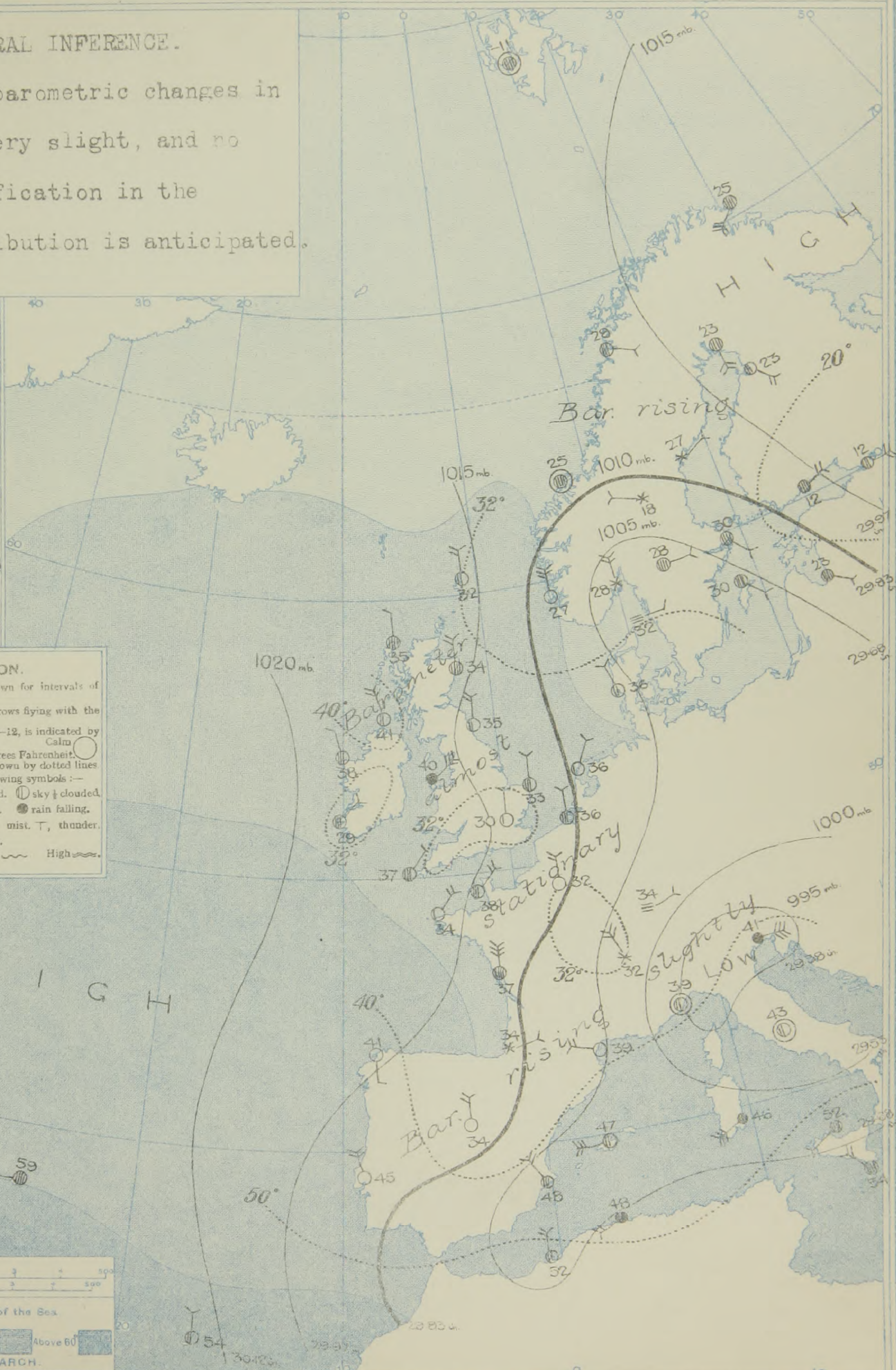
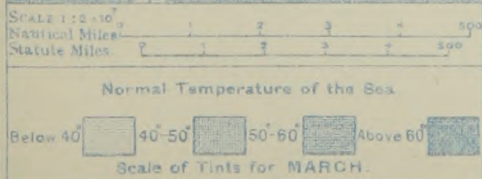
**WEATHER.**—Shown by the following symbols:—  
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
⊙ sky 3/4 clouded. ⊙ overcast sky. ● rain falling.  
\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
⚡, thunderstorm.

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

nches.  
—31

—30

—29





REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	3rd March at 9 P.M. LOCAL TIME.					4th March at 7 A.M. LOCAL TIME.											
		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.	
				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 ...	1022.3	23	SSE	3	b	1026.5	+2	9	+2	SE	4	*	bc	0	-	*	*	
Uleaborg ...	1007.3	23	SE	4	0	1007.4	0	23	+5	SE	3	*	0	*	-	*	*	
Helsingfors ...	1007.6	21	ESE	2	S	1009.3	0	25	0	ESE	2	*	S	0	-	*	*	
Hangö ...	1005.6	25	ESE	4	0	1007.5	0	27	+2	SE	3	*	0	0	1	*	*	
Riga ...												*				*	*	
Petrograd ...	1012.7	23	SE	4	0	1015.4	+2	21	+9	SE	4	*	0	*	-	27	12	
Moscow ...	1021.8	12	SE	2	b	1022.6	0	9	+9	E	3	*	0	*	-	*	*	
Kiev ...	1003.0	27	ESE	4	0	999.7	-1	25	-3	ENE	3	*	0	*	3	*	23	
Kharkov ...	1009.6	23	E	3	0	1007.8	-1	19	+1	E	3	*	S	*	6	*	*	
Kishinev ...	994.0	32	N	3	0	996.3	+3	32	-4	NW	2	*	S	*	13	*	32	
Elisabetgrad ...	996.6	32	ENE	5	h	991.0	+3	34	+2	E	4	*	h	*	7	*	32	
Nicolaiev ...	990.1	36	E	4	0	992.4	*	34	0	SW	3	*	h	0	7	*	34	
Odessa ...	990.1	36	ENE	2	0	995.1	+3	32	-4	WNW	4	*	S	0	13	*	32	

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

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							England, E.						
Oban ...	...	42	24	b	bc	34	Lowestoft ...	...	42	33	bc	bc	60
Banff ...	0.3	38	32	bc	bc	12	Felixstowe ...	...	42	33	bc	bc	60
St. Andrews ...	...	...	...	*	*	...	Walton-on-Naze ...	...	42	32	bc	bc	53
England, N.E.							Southend-on-Sea ...	...	42	32	bc	bc	53
Harrogate ...	0.1	36	29	bc	bc	60	Margate ...	2	41	34	0	bc	13
Skegness ...	0.4	42	32	bc	bc	72	Ramsgate ...	...	39	33	0	bc	08
England, N.W.							Hastings ...	1	41	33	bc	bc	35
Morecambe ...	...	...	...	...	...	...	Eastbourne ...	0.3	44	33	bc	bc	62
Blackpool ...	...	...	...	...	...	...	Seaford ...	...	42	33	bc	bc	71
Southport ...	...	43	29	b	b	99	Brighton ...	...	42	32	b	b	77
Midlands							Worthing ...	...	42	32	b	b	77
Buxton ...	...	41	29	bc	bc	72	Littlehampton ...	...	41	33	b	bc	80
Leamington Spa ...	...	...	...	...	...	...	Bognor ...	0.3	43	34	bc	bc	83
Malvern ...	...	...	...	...	...	...	Southsea ...	...	42	31	b	b	81
Ross-on-Wye ...	...	42	28	bc	bc	68	Bournemouth ...	...	42	31	b	b	81
Wales.							Weymouth ...	...	42	31	b	bc	77
Rhyl ...	...	40	28	bc	bc	70	Torquay ...	...	43	25	0	b	94
Colwyn Bay ...	...	41	?	b	bc	84	Paignton ...	...	45	36	bc	bc	83
Llandudno ...	...	...	...	...	...	...	Penzance ...	...	42	33	b	bc	81
Aberystwyth ...	...	...	...	...	...	...	Newquay ...	...	42	33	b	bc	81
Tenby ...	...	...	...	...	...	...	Ilfracombe ...	...	...	...	...	...	...
							Weston-super-Mare ...	...	...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	% 69	% 66	Hr. 5.6	° F. 41	° F. 39	° F. 23	mm. § -	° C. 0	° F. 0	° C. 0
City (Bunhill Row) ...	*	*	5.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	72	4.3	42	29	25	-	05 m	8 c	8 c
Camden Sq. (Brit. Rainfall)	70	80	5.0	43	28	25	Trace	0 c	8 c	*
Hampstead (Reservoir) ...	*	76	6.1	39	25	18	-	08 c	0 c	8 c
Richmond Park	*	*	4.9							
Kew. (See front page.)	*	*	6.3							
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.			Max. Rate.			
S. Kensington (Roof of M.O.)				671 Joules			169 Milliwatts.			

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.			Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	
		Max.	Min.	Fore- noon.	
		24 Hours ended 9 a.m. To-Day.	24 Hours ended 9 a.m. To-Day.	24 Hours ended 9 a.m. To-Day.	
Dublin to 4 p.m.	...	40	27	24	...
Darwen to 9 p.m.	...	...	...	...	...
Manchester "	...	...	...	...	...
Birmingham "	...	...	...	...	...
Oxford to 8 p.m.	...	42	30	26	...
Teignmouth to 9 "	...	42	33	25	...
Plymouth "	...	43	30	24	...
S. Kensington (Museum Grounds to 9 p.m.)	...	42	32	24	...

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

5th March 1916.	Sunrise	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.34	12.5	5.38
Greenwich ...	6.32	12.5	5.38
Wick ...	6.30	12.5	5.40
Valencia ...	6.27	12.5	5.42

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.	
	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.	5th March 7.20h.	6th March 7.20h.
Benson.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Esdailemuir.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

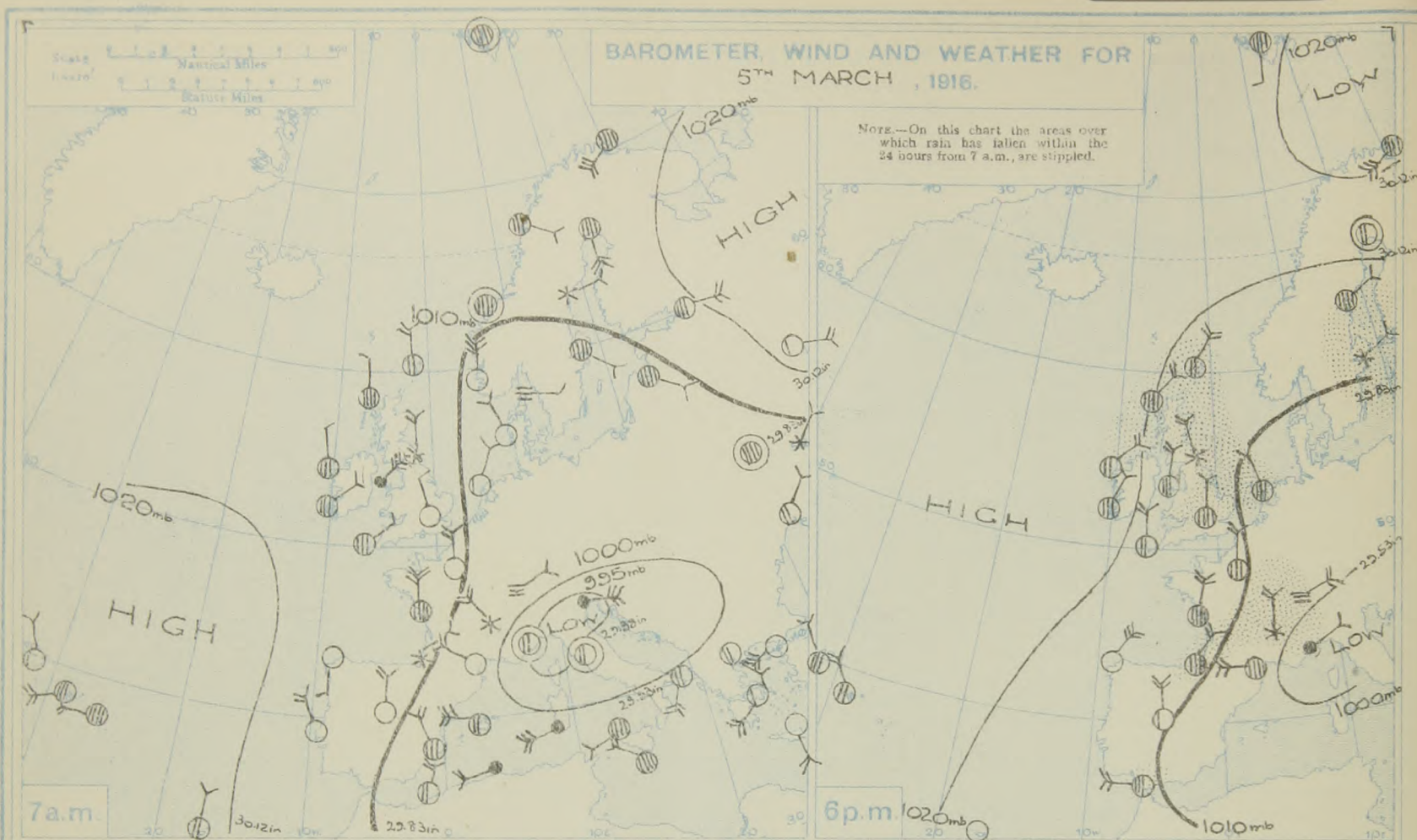
NOTE.—The information relating to weather is indicated by the following letters:—b, blue sky; bc, sky half clouded;  
c, sky three parts clouded; d, drizzling rain; e, wet air, without rain falling; f, fog; g, gloom; h, hail;  
l, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r,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

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









FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

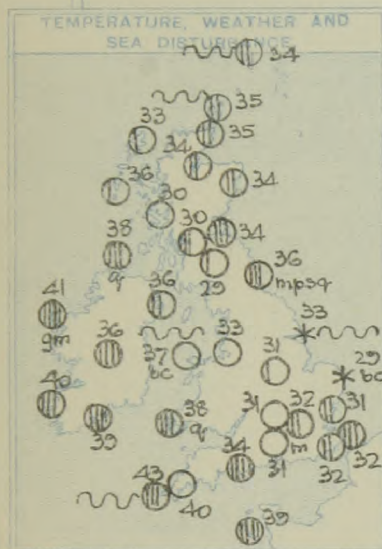
- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | North-Easterly and Northerly winds, fresh to moderate or light; fair generally, snow showers locally; cold.                    |
|    | b |   |  |
| 1  | a | } | Wind mainly Northerly, moderate or light, fresh locally; changeable, mostly fair, some snow or sleet showers; temperature low. |
| 2  | b |   |  |
| 3  | a | } | Northerly winds, fresh to light; mostly fair, some snow showers; cold.   |
| 4  | b |   |  |
| 5  | a | } | Northerly winds, moderate or light; fair generally; cold.  |
| 6  | b |   |  |
| 7  | a | } | Northerly winds, moderate or light; sea moderate; fair generally.  |
| 8  | b |   |  |
| 9  | a | } |  |
| 10 | b |   |  |

FURTHER OUTLOOK.



# GENERAL INFERENCE.

Pressure irregularities over the North Sea will cause further showers of sleet and snow over a considerable portion of the Kingdom.



## 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 1/4 clouded. ○ sky 1/2 clouded.

○ sky 3/4 clouded. ○ overcast sky. ● rain falling.

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

K, thunderstorm.

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

Inches.

31

30

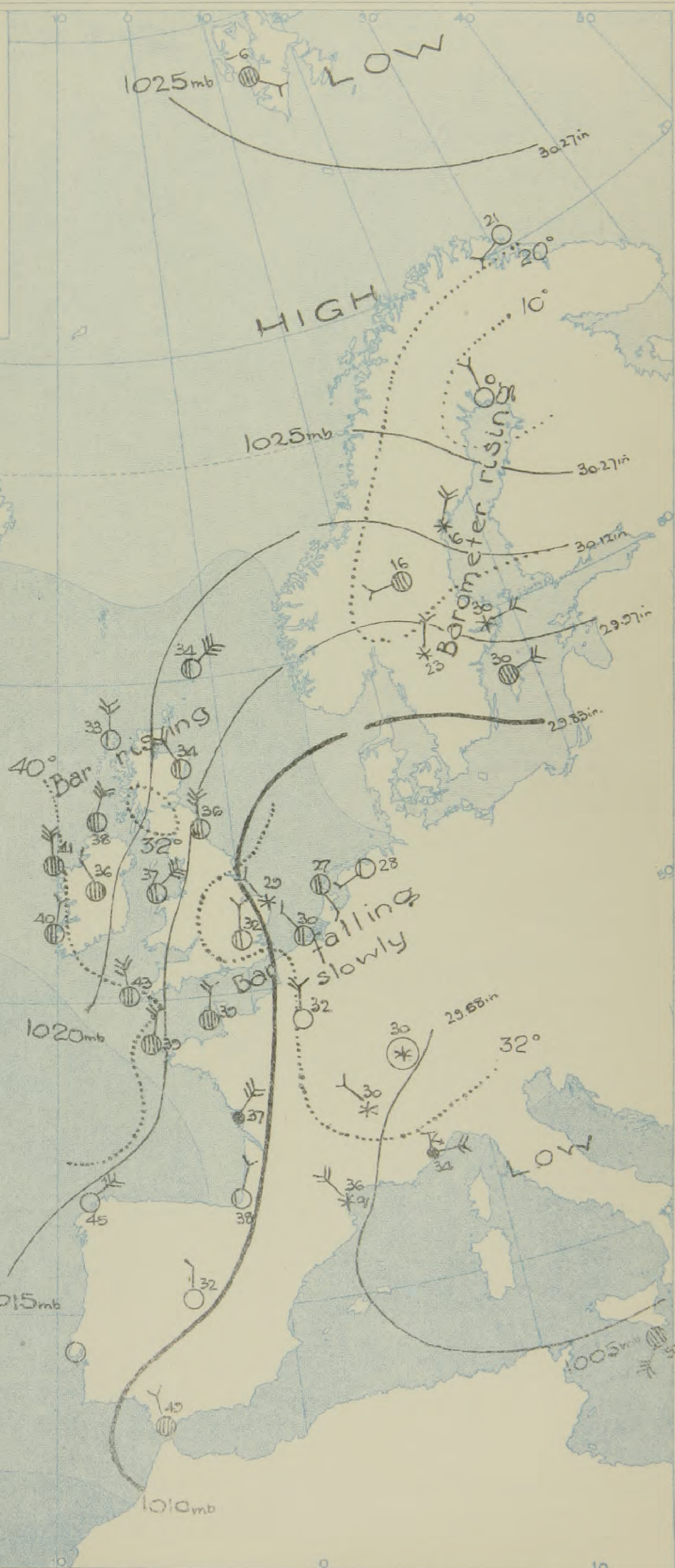
29

Scale 1:10  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MARCH.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...AT 9 P.M. LOCAL TIME.					...AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	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.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Wind. Direc.	Force 0-12.	Dirac. of Upper Cloud.	Weather.	Temp. ° F.	Max.	Min.			
Archangel ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Uleaborg ...	1011.6	21	SE	3	3	1015.8	+4	23	...	SE	3	*	bc	...	...	...			
Helsingfors ...	1013.2	25	SE	2	b	1014.6	0	12	...	ENE	3	*	o	...	...	...			
Hangö ...	1010.7	27	SE	2	b	1011.5	0	16	...	ESE	3	*	b	...	...	...			
Riga ...	1009.5	27	SE	2	b	1008.3	0	23	...	SE	2	*	o	...	...	...			
Petrograd ...	1018.6	27	SE	4	b	1019.3	-1	12	...	E	4	S	c	...	...	...			
Moscow ...	1021.8	19	ESE	3	b	1021.2	-1	10	...	ESE	3	*	b	...	...	...			
Kiev ...	1000.0	24	NNE	3	S	1002.1	+2	23	...	-	0	*	o	...	...	...			
Kharkov ...	1006.5	21	ESE	1E	9	1006.9	0	28	...	NE	2	*	S	...	...	...			
Kishinev ...	1003.4	30	NW	2	o	1004.2	0	23	...	NW	3	*	o	...	...	...			
Elisabetgrad ...	998.1	31	SW	3	S	1003.4	+3	29	...	SW	3	*	S	...	...	...			
Nicolaiev ...	1003.7	34	SW	2	o	1004.3	*	30	...	-	0	*	b	...	...	...			
Odessa ...	1002.6	36	WNW	2	o	1003.7	0	32	...	NE	2	*	bc	...	...	...			

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		° F.	° F.				England, E.		° F.	° F.			
Oban ...	-	41	28	bc	o	0.0	Lowestoft ...	...	...	...	...	...	...
Banff ...	2	38	33	o	ops	0.0	Felixstowe ...	0.2	43	29	bc	bcp	2.5
St. Andrews ...	...	...	...	*	*	...	Walton-on-Naze ...	...	...	...	...	...	...
England, N.E.							Southend-on-Sea ...	...	41	30	b, bc, c, o	o, c, bcp	1.8
Harrogate ...	-	37	28	bc, c	c	1.1	England, S.E.						
Skegness ...	2	41	31	o, bcp	p, bcp, b	5.3	Margate ...	...	41	?	c	b	4.5
England, N.W.							Ramsgate ...	...	40	32	c	bc	4.7
Morecambe ...	...	...	...	...	...	...	Hastings ...	...	42	30	b, bc	bc, o	5.4
Blackpool ...	...	...	...	...	...	...	Eastbourne ...	...	44	30	b	b, om	5.2
Southport ...	-	43	31	b	b, o, c	5.9	Seaford ...	...	...	...	...	...	...
England, S.W.							Brighton ...	...	43	29	b	o	5.3
Buxton ...	...	...	...	...	...	...	Littlehampton ...	...	42	34	b	bc, o	5.4
Leamington Spa ...	...	41	26	o, c	c	2.8	Bognor ...	...	...	...	...	...	...
Malvern ...	2	40	29	o	c	2.0	Southsea ...	...	42	28	b	bc, c	6.3
Ross-on-Wye ...	1	43	23	bc, s	bc	2.9	Bournemouth ...	...	42	28	b	bc, c	6.3
Wales.							England, S.W.						
Rhyl ...	2	41	27	bc	bc, o	6.5	Weymouth ...	...	44	28	bc	c, bz	4.0
Colwyn Bay ...	3	41	30	bc	bc, o	5.4	Torquay ...	...	44	27	b	bc, c, o	5.1
Llandudno ...	1	42	28	b	b	6.6	Paignton ...	...	...	...	...	...	...
Aberystwyth ...	1	42	26	g, o, c	c, bc	5.5	Penzance ...	...	...	...	...	...	...
Tenby ...	...	...	...	...	...	...	Newquay ...	...	43	25	bc	c	6.8
							Ilfracombe ...	...	...	...	...	...	...
							Weston-super-Mare ...	...	43	24	b, s, bc	b, bc	3.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 68	% 90	Hr. 1.6	° F. 41	° F. 32	° F. 28	mm. -	c	cp, bc	b, c, o
City (Bunhill Row) ...	*	*	2.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	71	1.4	43	33	30	0.4	od	p, bc	bc
Camden Sq. (Brit. Rainfall)	-	83	1.9	44	31	28	1	-	-	*
Hampstead (Reservoir) ...	*	74	2.1	39	28	21	0.3	bc, s	cc	c
Richmond Park	*	*	2.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	2.7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 628 Joules		Average Rate. 15.8 Milliwatts.		Max. Rate. 48 Milliwatts.		
S. Kensington (Roof of M.O.)	66	80	1.7							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Max.	Night.	Fore- noon.	After- noon.	
Dublin to 4 p.m.	mm §	° F.	° F.	° F.				
Darwen to 9 p.m.	...	...	...	...				*
Manchester "	...	...	...	...				*
Birmingham "	...	...	...	...				*
Oxford to 8 p.m.	...	...	...	...				*
Teignmouth to 9 "	...	...	...	...				*
Plymouth "	...	...	...	...				*
S. Kensington (Museum Grounds to 6 p.m.)	0.3	43	30	20	b, bc, cc	o, c, o, g, op, bc		*

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

6th & 7th March, 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.32	12.5	6.38
Greenwich ...	6.29	12.4	6.39
Wick ...	6.33	12.12	6.46
Valencia ...	6.57	12.24	6.50
	6.54	12.53	6.52
	7.16	12.52	6.52

## NOTES ON YESTERDAY'S WEATHER.

Snow showers were experienced in most places, being more decided and frequent in the east and north-east than elsewhere. Much sunshine was recorded in the west and south-west; 10 hours at Scilly. Temperature remained below 45° very generally. Aurora was observed at Lerwick and Aberdeen.

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

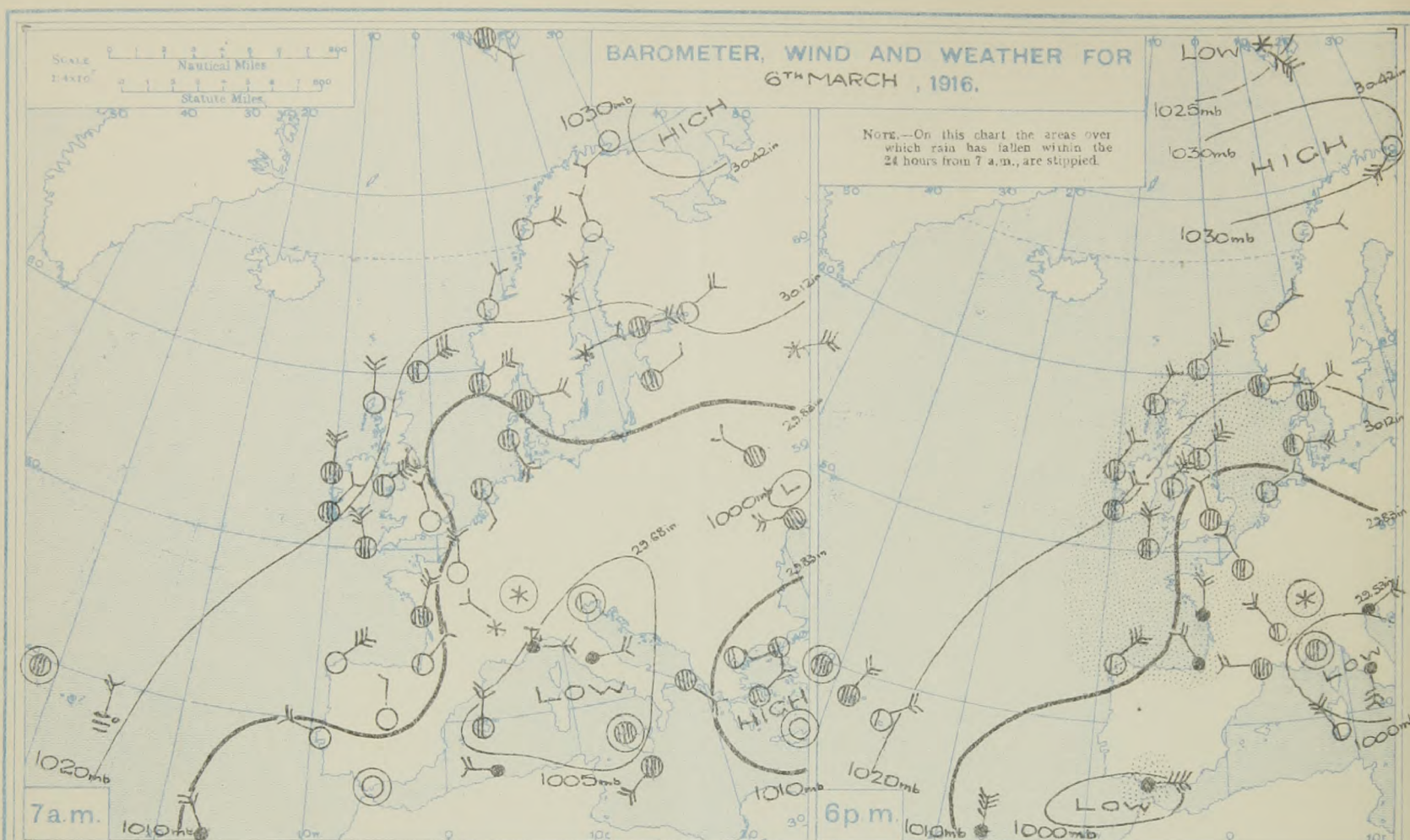


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 67.

Tuesday  
7<sup>th</sup> March

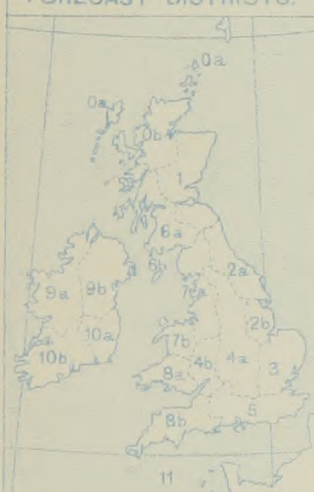
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Dir. of Upper Cloud.	Weather.	Sea (0-3).	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Force 0-12.	Dir.		Change in 3 hours.	Value	Change in 24 hours.	Value	Force 0-12.	Dir.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1022.2	36	NE	5	bc	1026.2	+1	36	+2	ENE	4	NE	bc	3	3	39	32	bcqsp	bcqsp	bc	Hours.
	Deerness (Orkney)	1021.7	35	NNE	6	bc	1024.4	*	36	+1	NE	5	NE	bc	5	1	39	35	bc	bcph	bc	5.9
	Stornoway	1024.1	36	NNE	4	bc	1026.1	+1	34	+1	ENE	4	-	os	4	2	40	32	cgs	bcps	bccps	3.4
	Castlebay (Barra Isd.)	1025.1	38	N	2	bc	1024.4	0	36	0	NNW	4	N	bc	4	1	42	34	bc	cspbc	cspbcg	4.2
	Glasgow	1019.0	35	N	2	c	1022.5	+2	30	0	NE	2	-	b	*	Trace	37	28	bc o	ocbcc	bc bsp	3.0
	Eskdalemuir	1015.7	31	NNE	6	b	1020.8	+4	29	0	NNE	4	-	osp	*	0.1	36	27	bcc	opsbc	bcs p	8.3
	Malin Head	1020.8	39	NNE	6	bcq	1022.0	+2	37	-1	ENE	5	E	bcq	5	-	39	36	bcq	bcq	cq	9.8
	Blackod Point	1021.9	39	NNE	3	cv	1021.6	0	36	-5	NNE	3	NE	cq	3	4	43	34	bcp	cv	bc cps	*
	Valencia	1020.2	42	NNE	3	c	1019.9	0	36	-4	NNE	4	N	bc	*	0.2	47	35	ch	cp	ocbc	1.4
	Roche's Point	1019.6	41	N	3	c	1018.6	*	33	-6	N	3	-	b	2	0.2	44.5	33	op	ocbc b	bx	*
	Birr Castle	1019.6	39	N	1	c	1019.2	*	31	-5	N	3	-	b	*	-	44	30	c	c	bx	5.4
	Donaghadee	1018.3	40	N	5	bcq	1020.6	+2	35	-1	NE	5	NE	bz	5	-	40	35	bc	bcq	bcq	*
	Liverpool (Bidston)	1013.5	36	N	3	o	1015.7	+1	30	-3	NNE	2	E	bc	2	-	39	30	b	c. b	c. c	4.2
	Holyhead	1015.3	38	NNE	6	bc	1016.0	+3	36	-1	ENE	5	-	bc	4	1	42	34	bc	bc	bcqs	4.8
	Pembroke (St. Ann's)	1015.3	38	N	4	cq	1012.7	+1	34	-4	NNE	4	NW	bcq	4	0.2	42	32	bcq	bcqps	bcqph	7.0
	Scilly (St. Mary's)	1015.1	41	N	5	cyp	1010.7	-1	36	-7	NNE	5	N	cqps	6	5	44	35	cp	bcv	cqps	5.6
	Falmouth	1013.8	38	N	5	bcq	1009.7	-2	34	-6	NNE	4	-	ps	*	-	42	33	nhq. bc	bccph	bcc c	6.9
	Jersey (St. Aubin)	1012.3	39	N	3	b	1004.8	*	33	-6	-	0	-	os	1	3	41	32	opsb b	b	spbcos	4.2
	Portland Bill	1016.9	38	N	5	c	1007.1	+1	31	-3	NNE	5	NE	bc	3	-	42	30	o bc	bc. c	bc c s	*
	Dungeness	1007.1	34	NNE	3	c	1006.4	0	30	-2	N	2	-	ou	2	0.3	38	27	c. o. c	o. h. c	cps x o	*
	Dover	1007.7	34	NW	2	o	1006.9	0	32	0	NNE	2	-	s	2	2	40	28	c bc b	b ops c	c. b. os	5.2
	Wick	1021.2	37	NE	4	c	1024.0	+2	39	+4	NE	3	-	s	3	1	40	34	bcph	cpns	cm bch	*
	Nairn	1021.0	35	NE	5	cqg	1023.9	*	33	-1	-	0	-	cq	1	2	39	32	bcq	hbcgc	gs bcc	5.7
	Aberdeen	1018.4	37	NE	5	cq	1023.6	+2	33	-1	NW	3	-	c	3	5	41	32	bcspg	bcqsp	osg	5.9
Leith	1016.9	36	NE	4	o	1021.8	+2	34	0	NE	3	-	s	3	3	39	32	cqg o	oq. ns	csg. s	*	
Tynemouth	1012.5	38	NE	6	mbcpts	1017.7	+2	37	+1	NNE	5	N	cq	6	6	39	33	cmgbs	cmgbs	cq. p	*	
Spurn Head	1003.4	34	NNE	6	s	1012.7	+1	36	+3	E	7	-	cqps	6	7	38	30	cqgs	bcgs	bcqps	0.0	
Yarmouth	1007.0	32	N	2	bc	1009.7	+1	36	+7	E	6	-	cq. p	5	6	36	28	bcs	bcs	oqps h	2.3	
Clacton-on-Sea	1007.3	35	NW	2	bc	1007.1	-1	33	+2	NE	3	-	s	2	2	37	30	bcpsc	cps bc	bcxos	4.2	
Nottingham	1009.3	35	NNW	4	c	1011.7	*	34	+3	NE	5	NE	s	*	2	39	30	cps	cps	cps b	3.5	
Benson (Oxon.)	1009.6	33	NNW	4	s	1009.6	+2	31	0	NW	3	-	s	*	1	38	29	bcc	cps	psg	*	
St. Farnborough	1008.7	34	NW	3	o	1008.6	+2	29	-2	N	2	-	o	*	1	39	28	bcc	bcqpsgc	obccs	5.1	
London (Kew Obsy.)	1008.6	33	NNW	2	o	1008.9	+2	30	-2	NNW	1	-	om	*	3	38	30	bmbcc	oq. bc o	oomsm	3.6	
NORTHERN EUROPE.	Spitsbergen	1022.3	21	SSE	7	s	1017.6	0	27	+33	SSE	9	*	o	*	*	24	-6	UPPER AIR.			
	Vardö	1021.8	21	SW	5	b	1020.0	0	19	-2	S	3	-	o	3	*	21	19	South Farnborough.			
	Bodö	1021.3	25	E	2	b	1029.1	0	21	0	E	4	-	c	2	-	27	16	Pilot Balloon Ascent at 7.29 a.m.			
	Christiansund	1023.4	28	NE	2	b	1026.9	+2	25	0	-	0	-	b	3	-	30	23	4000 ft. NE by N. 32 mph.			
	Skudesnaes	1020.0	34	E	2	c	1024.6	+2	28	-4	NE	2	-	o	2	-	36	27	3000 ft. NE. 25 mph.			
	Færder (Maula Fiord)	1021.9	28	NNE	4	s	1026.9	+2	27	+4	NE	6	-	o	2	1	28	23	2000 ft. NE. 28 mph.			
	The Scaw (Shagen)	1018.0	32	NE	3	o	1023.0	+2	28	-2	E	4	-	o	4	-	34	28	1000 ft. NNE. 25 mph.			
	Blaavands Huk	1014.3	32	E	4	c	1017.1	0	30	-2	ENE	3	-	o	3	Trace	39	28	Surface. N 5 mph.			
Haparanda													*					GALES.				
Hernösand													*					Duration and Extreme Force				
Stockholm													*					in British Islands.				
Wisby													*					Eskdalemuir: 5th March.				
Karlstad													*									
FRANCE, & C.	The Helder	1008.7	36	ENE	2	b	1004.6	+1	36	+9	ENE	6	-	o	4	1	39	27	NNE 8 at 3 p.m. in squall			
	C. Gris Nez	1007.1	34	NW	3	o	1006.1	0	33	-1	ESE	1	*	o	1	2	39	32	Just NNE. 23 m.p.s.			
	La Hève	1008.8	33	N	6	o	1005.0	*	28	+6	ESE	4	*	s	2	1	36	28				
	Brest (St. Mathieu)	1014.0	41	NNE	4	c	1007.9	-1	37	-2	N	4	*	c	4	Trace	45	36	Nairn: 5th March.			
	Rochefort (Ile d'Aix)	1006.9	36	N	4	h	1007.4	0	32	-5	NNE	3	*	b	*	5	45	30	Squalls. NE 6 m.p.s. evening			
	Biarritz	1009.6	45	NW	3	h	1008.6	0	35	-3	SE	2	*	c	2	1	49	36				
	Paris	1007.9	32	NNE	2	s	1006.7	+1	25	-7	NNE	1	-	f	*	1	43	23				
	Belfort	1005.6	30	-	0	s	1005.6	*	28	-2	W	2	*	s	*	4	35	27				
	Lyons	1007.3	33	NNW	4	bc	1007.4	*	27	-3	-	0	*	b	*	-	40	24				
	Nice	999.6	37	-	0	c	1001.0	+4	38	+4	W	4	*	b	3	8	43	32				
Perpignan	1007.1	39	W	3	o	1006.3	+2	32	-4	W	2	-	b	*	-	46	37					
Sanguinaire	*	42	SW	5	h	*	*	45	-1	NW	5	*	b	6	8	55	25					
SOUTHERN EUROPE.	Corunna (7 a.m.)	1015.0	48	NE	6	b	1013.0	+2	39	-6	SSW	1	-	o	3	4	50	37				
	Madrid (8 a.m.)												*									
	Lisbon (9 a.m.)												*									
	Gibraltar	999.6	51	E	7	h	999.3	*	48	-1	E	6	*	h	3	17	51	47				
Malta (8 a.m.)	*	*	*	*	*	1008.6	+4	54	-3	NNW	3	-	b	4	*	63	52					
Azores (Horta, 8 a.m.)	1023.0	*	NE	4	o								*									
Madeira (Funchal)	1008.3	53	N	7	h	1014.7	+3	55	-4	N	3	N	bc	3	?	66	55					
YESTERDAY'S REPORTS		5 <sup>th</sup> March, 8 P.M., G.M.T.					6 <sup>th</sup> March, 7 A.M., G.M.T.															
ITALY.	Venice	1004.7	46	3	2	b	1003.4	0	43	+2	-	0	*	b	2	Trace	*	*				
	Turin	1000.3	41	-	0	o	1001.0	0	37	+1	N	3	*	o	*	1	*	*				
	Florence	1002.0	41	-	0	b	1002.4	0	43	0	-	0	*	o	*	5	*	*				
	Pesaro	1002.4	46	S	3	c	1003.9	0	39	0	S	3	*	o	2	-	*	*				
	Leghorn	1002.6	50	W	4	bc	1002.8	0	43	-2	NE	4	*	c	3	5	*	*				
	Rome	1004.6	46	S	3	c	1002.8	0	45	+2	E	3	*	h	*	5	*	*				
	Brindisi	1003.5	52	SE	4	o	1007.3	0	50	+2												





**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

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Moderate North-Easterly winds; snow showers, with fair intervals; cold.                 |
| 1  | b |   |   |
| 2  | a | } | Fresh or strong North-Easterly winds; dull, with snow, some fair intervals later; cold. |
| 3  | b |   |   |
| 4  | a | } | Same as Nos. 0 and 1.   |
| 5  | b |   |   |
| 6  | a | } | Moderate or fresh North-Easterly winds; snow showers, with fair intervals; cold.        |
| 7  | b |   |   |
| 8  | a | } | Moderate North-Easterly winds; weather mostly fair; cold.                               |
| 9  | b |   |   |
| 10 | a | } | Fresh Northerly or North-Easterly winds; sea rather rough; squally, snow showers.       |
| 11 | b |   |   |

**FURTHER OUTLOOK.**

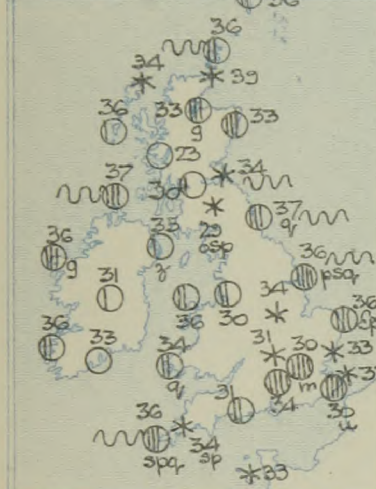


# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 7<sup>th</sup> MARCH, 1916.

## GENERAL INFERENCE.

An unsettled, north-easterly type of conditions is likely to be maintained.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE



### EXPLANATION.

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

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

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

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

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

○ clear sky. ○ sky 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.

Inches.

31

30

29

SCALE 1:12,500  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 40 40-50 50-60 Above 60

Scale of Tints for MARCH.

1015mb 1010mb 1005mb 1000mb 1005mb

10



# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	5th, AT 2 P.M. LOCAL TIME.					6th, AT 7 A.M. LOCAL TIME.								Weather.	Sea 0-10.	Rain-fall, Millimetres.	TEMP.	
	BAROM. Millibars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Max.				Min.	
			Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
Archangel ...	...	F.	...	...	...	...	...	F.	F.	...	...	...	...	...	...	...		
Uleaborg ...	1022.0	19	SE	4	0	1025.9	+3	9	-14	E	3	*	bc	*	*	*		
Helsingfors ...	1015.6	21	ENE	3	0	1019.6	+3	14	-2	E	3	*	0	0	*	*		
Hangö ...	1013.3	23	ESE	2	0	1017.8	+3	23	+7	ESE	2	*	0	0	*	*		
Riga ...	1011.1	25	—	0	0	1013.5	+2	19	7	ENE	1	*	0	0	*	*		
Petrograd ...	1019.1	23	E	4	b	1021.6	7	9	-3	ENE	3	S	b	*	28	9		
Moscow ...	1018.9	21	ESE	5	b	1018.3	+1	16	+6	ESE	4	*	s	*	16	16		
Kiev ...	1005.6	25	—	0	0	1005.9	+1	23	0	NNW	2	*	0	*	23	23		
Kharkov ...	1008.6	34	SE	2	f	1004.8	-1	36	+8	SE	2	*	f	*	8	*		
Kishinev ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Elisabetgrad ...	...	...	...	...	...	1000.0	+2	32	+8	NNW	4	*	f	*	6	32		
Nicolaiev ...	998.7	25	SSE	5	0	1002.0	...	42	+2	WSW	6	*	3	0	4	28		
Odessa ...	997.3	41	SW	3	r	1005.7	+7	32	0	NW	4	*	0	0	10	30		

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun-shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun-shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.	mm. §	° F.	° F.			Hr.	England, E.	mm. §	° F.	° F.			Hr.
Oban ...	...	42	29	bc	bc	5.3	Lowestoft ...	3	37	28	c. obs	c. obs	2.6
Banff ...	2	40	31	bcphs.	bcphs.	4.0	Felixstowe ...	1	38	28	bc	bc	4.7
St. Andrews ...	...	40	31	*	*	5.6	Walton-on-Naze ...	...	...	...	...	...	...
England, N.W.							Southend-on-Sea ...	...	39	31	c. bc	ops. c	3.1
Harrogate ...	3	36	27	bc. csp	csp. bc	3.6	Margate ...	...	38	33	c. bc	c. bc	4.3
Skegness ...	5	34	28	osu	osu	0.9	Ramsgate ...	...	37	31	c	bc	4.0
England, N.E.							Hastings ...	1	39	32	bc. b	bc. os	6.1
Morecambe ...	...	38	32	c	c	0.0	Eastbourne ...	...	41	32	b	b. bc	5.2
Blackpool ...	...	...	...	...	...	...	Seaford ...	1	40	31	o	s	5.7
Southport ...	...	40	31	b. bc. c	c. o. c. o	5.8	Brighton ...	1	40	30	c	c. os. c	7.0
Midlands							Worthing ...	...	40	32	bc	c. o	7.5
Buxton ...	...	38	31	b. bc. os	bc. os	4.8	Littlehampton ...	...	39	34	b	b. c. s. o	6.7
Leamington Spa ...	1	38	31	bc	bc	5.9	Bognor ...	...	40	32	bc	b. c. s. bc	8.5
Malvern ...	1	38	29	bc	bc	5.9	Southsea ...	...	...	...	...	...	...
Ross-on-Wye ...	1	40	30	bc. s.	bc	6.4	Bournemouth ...	0.3	41	33	b	b. bc	7.6
Wales.							England, S.W.						
Rhyl ...	...	40	34	bc	c	5.6	Weymouth ...	...	41	32	c. b	b. bc. s.	6.3
Colwyn Bay ...	...	40	34	bc	c	6.2	Torquay ...	...	...	...	...	...	...
Llandudno ...	0.3	40	35	b	b. bc	6.0	Paignton ...	...	45	36	c. bc	bc	7.0
Aberystwyth ...	2	39	30	s. o. c	c. bc	6.5	Penzance ...	...	41	35	bc. c	bc. c	6.5
Tenby ...	3	44	35	bc	bc. op	7.4	Newquay ...	...	42	33	b	b. bc	6.9
							Ilfracombe ...	0.3	42	33	b	b. bc	6.9
							Weston-super-Mare ...	...	41	34	b	b. bc. c	5.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	% 76	% 81	Hr. 2.8	° F. 39	° F. 30	° F. 28	min. 6	c. o	c. obs	bc. os
City (Bunhill Row) ...	*	*	3.4	*	*	*	?	*	*	*
Westminster (St. James's Pk.)	74	71		40	31	32	?	c. obs	o	c. os
Camden Sq. (Brit. Rainfall)	75	86	4.4	40	29	29	8	bc. c	c. os	*
Hampstead (Reservoir) ...	*	89	5.9	37	26	25	7	c. os	ops	bc. os
Richmond Park	*	*	3.0							
Kew. (See front page.)	*	*	3.6							
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 608 Joules		Average Rate. 15.2 Milliwatts		Max. Rate. 52. Milliwatts		
S. Kensington (Roof of M.O.)	73	96	3.2							

## Additional Observations for Yesterday.

STATIONS.	Rain-fall.	TEMPERATURE.		WEATHER.		Sun-shine for Yesterday.
		In Screen.	Night Min. on Grass.	Night.	Forenoon.	
		Max.	Min.			
Dublin to 4 p.m.	mm. §	° F.	° F.	° F.		Hr.
Darwen to 9 p.m.	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...
Teignmouth to 9 p.m.	2	42	33	27	bc. os	bc. b. b. bc
Plymouth "	...	...	...	...	...	...
S. Kensington (Museum Grounds to 9 p.m.)	1	40	32	26	b. o. c.	c. obs. c. obs.

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

17th March 1916.	Sunrise	Noon	Sunset
Yarmouth ...	G.M.T. 6.25	G.M.T. 12.44	G.M.T. 5.30
Greenwich ...	G.M.T. 6.35	G.M.T. 12.41	G.M.T. 5.47
Wick ...	G.M.T. 6.28	G.M.T. 12.23	G.M.T. 5.52
Valencia ...	G.M.T. 7.07	G.M.T. 12.52	G.M.T. 6.25

## NOTES ON YESTERDAY'S WEATHER.

Snow showers occurred in all parts, though the amount of precipitation was not large. Some bright sunshine was recorded at most stations, up to 9.8 hours at Malin Head.

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.

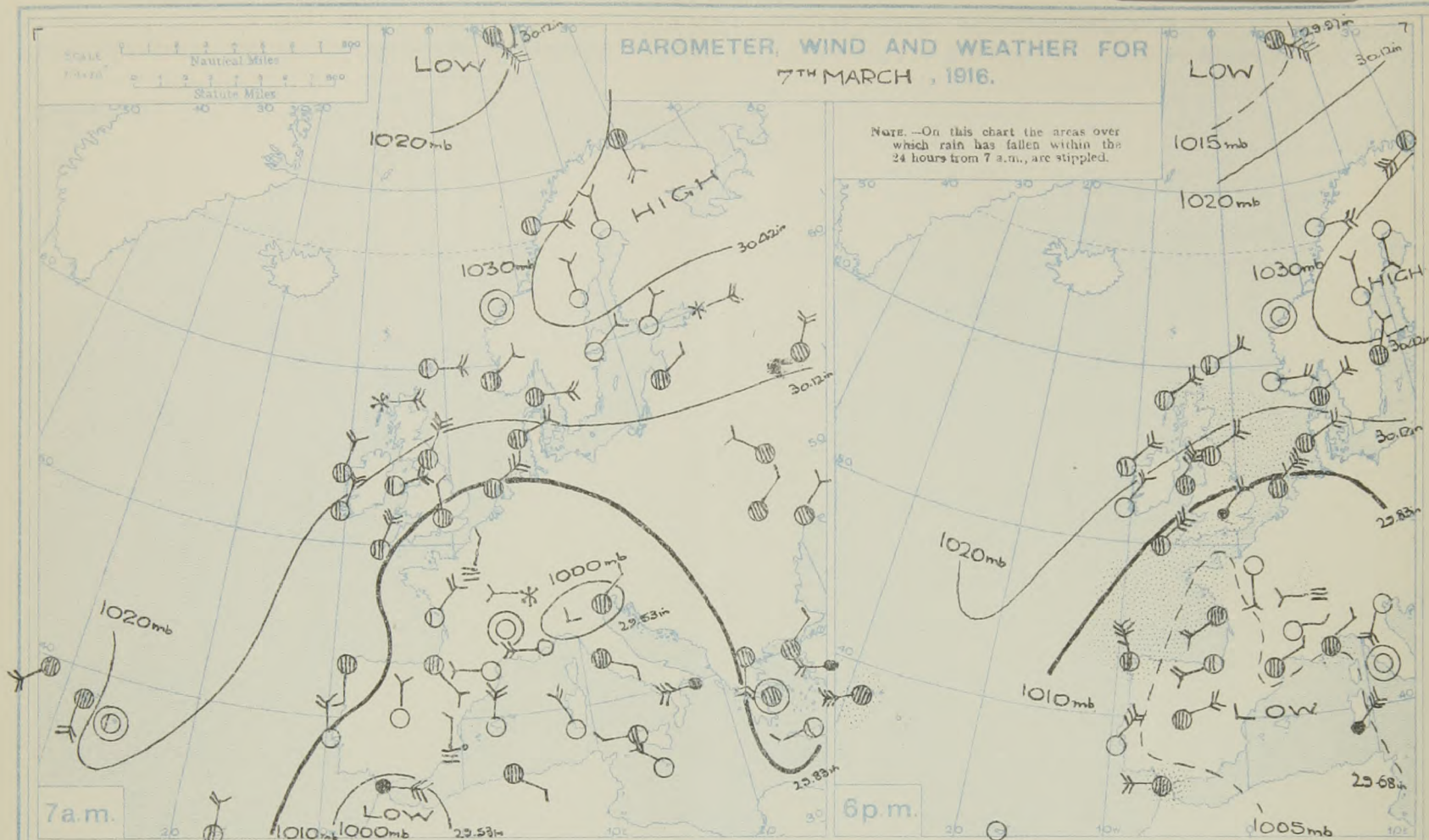
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 66. Wednesday, 8th March

	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Dirac. of Upper Cloud	Weather.	Sea (0-3).	Rain- fall Milli- metres.	TEMP.		WEATHER.			
				Dirac.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	Dirac.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	1025.9	37	ENE	3	bc	1025.5	0	35	-1	N	1	-	bc	1	-	40	32	bc	bc	bc	Hours.
	Deerness (Orkney) ...	1024.4	35	NE	4	bc	1024.4	0	35	-1	E	3	E	bc	3	-	39	34	bc	o.c. bc.	bc	2.0
	Stornoway ...	1024.9	37	NE	4	bc	1024.4	0	36	+2	NE	2	-	c	2	1	42	32	bcps	bc	cps	7.0
	Castlebay (Barra Isd.) ...	1023.2	40	NNE	3	bc	1022.5	0	37	+1	NNE	3	NE	b	3	-	43	35	bc, b.	bc	bc, b.	6.4
	Glasgow ...	1021.1	34	NNE	2	bc	1019.1	-1	34	+4	NE	2	-	ogs	0.2	-	39	29	c. bc.	bc, csp.	b. sp. o	7.6
	Eskdalemuir ...	1019.3	31	NE	5	b	1016.4	-1	31	+2	NNE	6	-	o	0	-	35	28	osp. b	bc, ops	b. sp. o	8.7
	Malin Head ...	1021.3	39	ENE	4	bc	1019.8	-1	35	-2	NE	5	NE	bc	5	-	39	35	bc	bc.	bc	6.8
	Blackod Point ...	1020.8	36	NE	4	bc	1018.9	-1	35	-1	ENE	3	NE	bc	3	-	41	32	bc, v	bc	bc, v.	8.8
	Valencia ...	1018.2	39	NNE	3	b	1016.8	-1	31	-5	NNE	2	-	bc	0	-	42	30	bc	b.	b. bc.	8.8
	Roche's Point ...	1017.2	40	NE	3	o	1015.3	0	33	0	N	4	-	o	3	-	43	31	b. bc. c	bc. o.	o. bc. o.	6.8
	Birr Castle ...	1018.8	38	N	2	c	1016.4	0	37	-2	N	1	-	c	4	-	41	25	c	c	c	8.8
	Donaghadee ...	1019.5	37	NE	5	bc, gm	1017.1	0	37	+2	ENE	5	NE	ogs, gm	4	-	41	24	bc, v	bc, gm	eg, gm	8.8
	Liverpool (Bidston) ...	1015.1	33	NNE	3	b	1011.7	-2	33	+3	N	3	N	o	3	-	40	30	o. c.	o. c.	b. o.	0.3
	Holyhead ...	1015.7	39	NE	7	o	1012.7	-1	37	+1	ENE	6	NE	ops	5	1	41	35	bc. o. c.	c. o. c. o.	cps. o.	2.2
	Pembroke (St. Ann's) ...	1012.5	38	NE	4	bc, v	1010.2	-2	36	+1	NNE	3	NE	c	3	-	41	32	bc, v	cq	bc. c	2.0
	Scilly (St. Mary's) ...	1008.3	38	NE	6	cm, ps	1007.3	-1	39	+3	NNE	4	N	o	5	6	41	36	cq, ps	cq, ps	cq, ps. o	3.1
	Falmouth ...	1008.4	37	NNE	5	ogs	1007.3	-2	34	0	NNE	3	-	o	1	Trace	41	33	b. bc.	cq, c. o.	b. bc. o	3.6
	Jersey (St. Aubin) ...	1004.6	38	ENE	3	c	1003.1	0	34	+1	ENE	1	-	o	0.2	-	41	30	b. o. sp. b	bc	b. o. gm	5.7
	Portland Bill ...	1007.3	34	NE	4	ops	1004.7	-2	34	+3	N	4	-	os	3	7	37	30	c. o.	osr	osr	8.8
	Dungeness ...	1005.9	34	N	2	r	1001.5	0	32	+2	N	2	-	s	2	8	35	30	os	osr	os	8.8
	Dover ...	1006.9	35	NE	3	r	1002.8	0	33	+1	-	0	NW	s	2	25	36	osr	osr	cq, ps	0.0	
Wick ...	1021.4	35	ENE	3	s	1021.2	0	36	-1	E	2	E	c	3	1	40	28	ops	ogs, oms	oms. c	8.8	
Nairn ...	1023.4	35	NE	1	og	1023.3	0	31	-2	E	1	-	bc	2	2	38	27	csp. bc	bc. c. o.	b. csp.	1.5	
Aberdeen ...	1022.8	36	ENE	5	bc	1021.8	0	36	+3	E	5	-	o	4	1	40	33	csp. bc	bc, v	b. csp.	4.9	
Leith ...	1020.0	37	NE	4	o	1018.5	-1	36	+2	NE	4	-	o	6	2	40	33	ps. o. c.	cps. o	ops. c. o.	8.8	
Tynemouth ...	1017.0	37	NE	4	cq, p	1014.7	-1	35	-2	ENE	7	-	cm, ps	7	2	39	34	cm, ps	cm, v	cm, ps	8.8	
Spurn Head ...	1013.8	36	E	6	bc, ps	1007.2	-2	35	-1	E	8	-	ogs	7	3	39	32	bc, ps	bc, ps	cq, ps	3.7	
Yarmouth ...	1011.1	37	E	6	or	1004.3	-1	36	0	ESE	6	-	ogs	6	6	39	33	cq, p	ogs, r	ogs, p	0.6	
Clacton-on-Sea ...	1007.3	37	NE	4	r	1003.0	0	34	+1	NNE	2	E	s	2	8	37	32	ogs, r	ogs, r	ogs, r	0.0	
Nottingham ...	1012.5	35	NE	4	bc	1007.7	0	34	0	NE	6	NE	s	3	3	38	32	s. o. c.	cps. o	c. ops	2.9	
Benson (Oxon.) ...	1008.7	35	NNE	4	o	1004.5	-3	32	+1	NNE	4	-	s	5	5	37	31	s. o.	o	s	8.8	
St. Farnborough ...	1007.5	35	NE	3	s	1003.3	-3	32	+3	NNE	2	-	os	12	35	29	3	s	s. c.	rs. s	0.0	
London (Kew Obs.) ...	1006.0	37	NE	4	orm	1003.7	-2	33	+3	NNE	2	-	oms	11	37	30	oms	oms	oms	0.0		
NORTHERN EUROPE.	Spitsbergen ...	1014.0	30	SE	9	o	1004.7	-2	32	+5	S	9	0	o	8	32	23	UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....				
	Vardø ...	1029.7	18	SW	5	bc	1027.9	-1	20	+1	SW	6	-	c	3	4	21	18				
	Bodø ...	1029.1	25	E	4	b	1027.9	-2	19	-2	E	4	-	b	2	-	25	16				
	Christiansund ...	1027.4	28	-	0	b	1026.9	0	25	0	SE	1	-	b	3	-	22	25				
	Skudesnaes ...	1023.8	34	E	3	b	1023.0	0	28	0	ENE	2	-	b	1	-	39	28				
	Færder (Mian Fjord) ...	1027.1	28	NNE	6	b	1025.3	0	19	-8	ENE	6	N	b	2	-	28	19				
	The Scaaw (Slagen) ...	1023.0	27	NE	4	o	1023.9	0	21	-7	E	5	-	o	5	-	28	21				
	Blaavauds Huk ...	1016.0	30	ENE	4	o	1015.7	0	30	0	E	5	-	o	4	1	34	27				
	Haparanda ...	1034.6	1	S	2	b	1034.3	-1	-8	+1	NNW	2	-	o	8	-	12	-13	GALES Duration and Extreme Force in British Islands.			
	Härnösand ...	1032.4	7	N	2	b	1032.0	0	0	-9	N	2	-	c	4	-	18	-8				
Stockholm ...	1025.2	18	NNE	2	o	1025.6	0	12	-4	N	2	-	o	3	-	27	9					
Wisby ...	1024.0	25	N	4	o	1024.2	0	25	-2	NE	4	-	o	3	-	28	23	Scilly. 7th 7pm East. NNE 18mps.				
Karlstad ...	1027.7	23	-	0	b	1029.2	+1	12	-11	-	0	-	o	8	-	28	3					
FRANCE, &c.	The Helder ...	1007.5	36	NE	7	o	1006.7	+2	32	-4	E	3	-	o	2	1	36	32	Spurn Head. 8th 6am-7am E 8.			
	C. Gris Nez ...	1005.6	33	NW	1	s	1002.4	0	32	-1	ENE	2	0	s	2	15	37	30				
	La Hève ...	1006.7	30	NE	3	bc.	1005.2	0	30	+2	SW	3	0	bc	2	2	37	28				
	Brest (St. Mathieu) ...	1005.2	34	NNE	4	o	1005.6	-1	32	-5	NNE	2	0	o	3	2	46	30				
	Rochefort (Ile d'Aix) ...	1004.4	37	SW	3	o	1001.5	-1	35	+3	SSE	5	0	o	8	11	43	32				
	Biarritz ...	1004.8	41	WSW	3	bc	1003.3	0	39	+4	WNW	4	0	o	3	-	45	35				
	Paris ...	1007.3	30	S	2	b	1005.9	0	25	0	-	0	-	b	8	-	36	21				
	Belfort ...	1007.8	27	W	2	m	1010.4	0	21	-7	E	4	0	m	8	2	34	16	Depths of Snow Benson 2 1/2 in. at 7am South Kensington 1/2 in. at 9am			
	Lyons ...	1008.2	32	E	1	b	1008.0	0	23	-4	-	0	0	b	8	-	41	23				
	Nice ...	1008.9	40	NE	1	o	1001.3	-4	28	0	SW	1	0	r	3	1	50	36				
Perpignan ...	1005.9	41	NE	1	o	1004.6	-2	28	-4	SW	1	-	b	8	-	48	28					
Sanguinaire ...	1005.8	58	E	3	o	1005.8	0	50	+5	E	4	0	r	3	6	59	41					
SOUTHERN EUROPE.	Corunna (7 a.m.) ...	1008.8	46	NNW	5	c	1009.1	+2	43	+4	W	4	NNW	bc	4	5	48	37				
	Madrid (8 a.m.) ...	1004.6	43	ENE	3	o	1007.8	+2	36	-1	W	4	W	b	8	-	45	28				
	Lisbon (9 a.m.) ...	1007.1	49	NW	4	b	1013.2	0	47	-1	W	5	W	b	2	1	55	45				
	Gibraltar ...	1004.3	57	SSW	6	b	1004.3	-3	57	+3	SSW	6	-	b	5	-	59	52				
	Malta (8 a.m.) ...	1015.5	54	SW	6	o	1010.7	0	54	-5	WSW	5	0	c	3	2	64	50				
YESTERDAY'S REPORTS	7th. March, 7 A.M., G.M.T.																					
	Venice ...	1000.9	43	ENE	4	o	999.7	0	45	+2	NE	1	0	o	3	Trace	45	37				
Turin ...	1000.0	39	-	0	r	999.1	0	37	0	-	0	0	b	8	-	45	37					
Florence ...	997.6	45	-	0	c	1000.3	0	43	0	SW	1	0	o	8	-	45	37					
Pesaro ...	999.4	45	-	0	o	1000.4	0	45	+6	S	1	0	o	2	-	45	37					
Leghorn ...	1001.4	43	-	0	o	1001.4	0	43</														





**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 | } | Fresh North-Easterly winds with fair weather; some snow or hail showers; rather cold.            |
| 1  | b |   |  |
| 2  | a | } | Fresh Easterly or North-Easterly winds, strong on East coast, dull, snow or sleet showers; cold. |
| 3  | b |   |  |
| 4  | a | } | Light variable winds; dull with snow or sleet; cold.   |
| 5  | b |   |  |
| 6  | a | } | Same as Nos. 0 and 1.  |
| 7  | b |   |  |
| 8  | a | } | Fresh or strong North-Easterly winds, cloudy, some showers of hail or sleet, cold.               |
| 9  | b |   |  |
| 10 | a | } | Moderate or fresh North-Easterly winds, fair, some showers in South; cold.                       |
| 11 | b |   |  |
|    |   | } | Moderate Northerly winds; slight sea; dull, some rain or sleet.                                  |
|    |   |   |  |

**FURTHER OUTLOOK.**

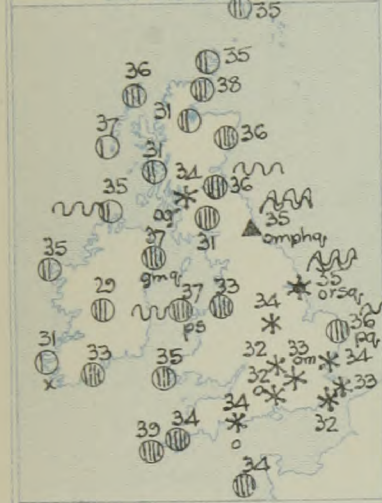


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 8<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE.

The Easterly to North-Easterly type of conditions is likely to be maintained over all except the extreme South of 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:—

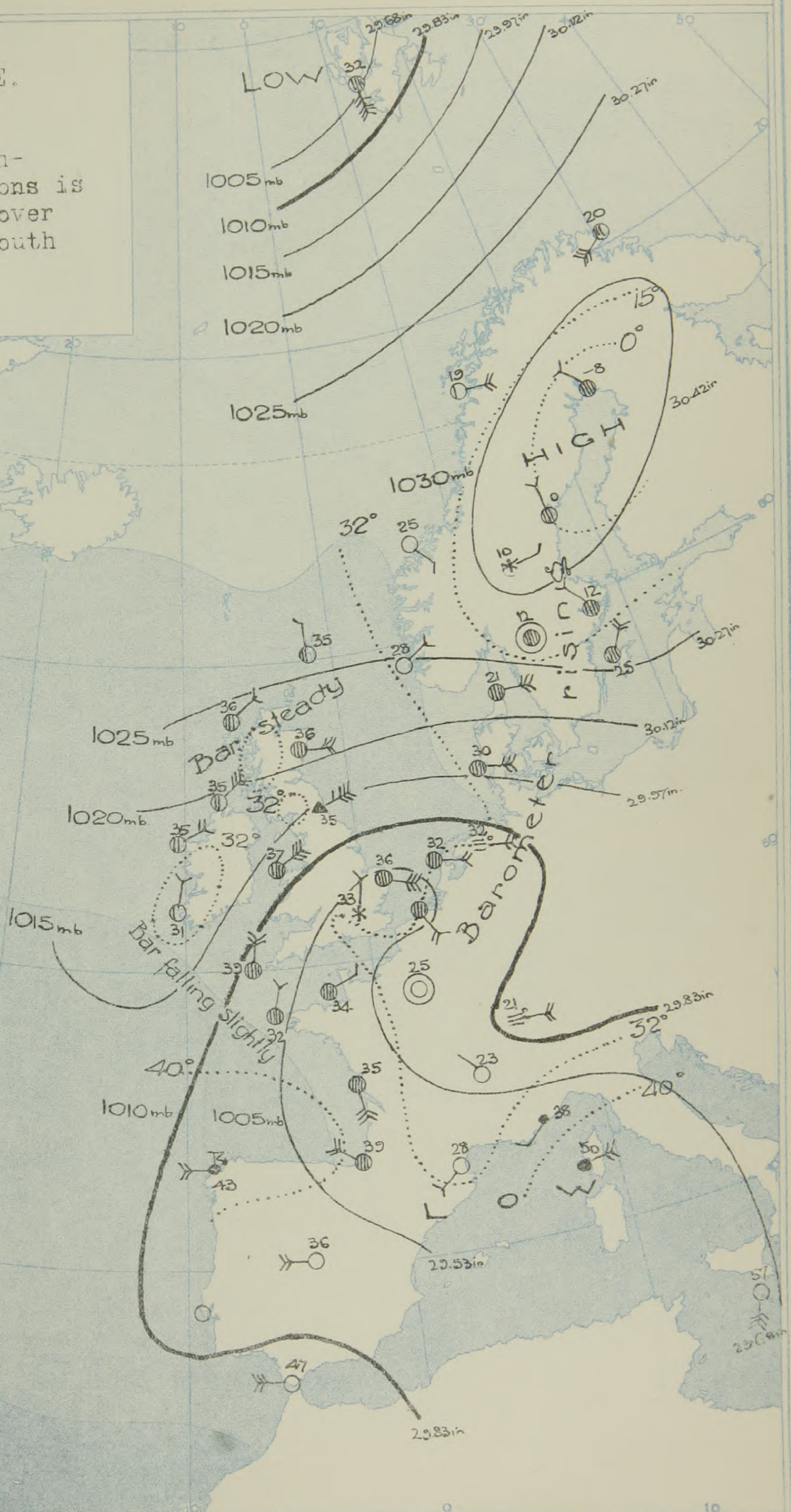
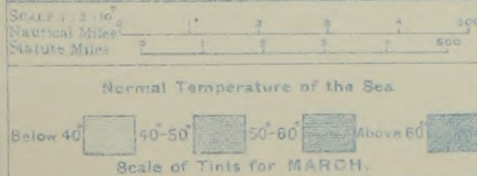
○ clear sky. ○ sky  $\frac{1}{2}$  clouded. ○ sky  $\frac{3}{4}$  clouded. ○ sky  $\frac{1}{2}$  clouded, overcast sky. ● rain falling. \* snow. ▲ fog. ☼ mist. T, thunder. ⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough High

Inches.  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	6 <sup>th</sup> March 9 P.M. LOCAL TIME.					7 <sup>th</sup> March 7 A.M. LOCAL TIME.										Rain-fall. Milli-metres.	TEMP.	
	BAROM. Milli-bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			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.							
Archangel ...		° F.						° F.	° F.									
Uleaborg ...	1030.6	16	SE	3	b	1023.3	+1	5	-4	SSE	3	*	b	*	*	*	*	
Helsingfors ...	1025.2	18	NE	1	b	1027.3	0	10	-4	NE	2	*	b	0	*	*	*	
Hangö ...	1024.6	19	ESE	2	b	1027.0	+3	9	-14	ESE	2	*	0	0	*	*	*	
Riga ...	1018.2	25	NE	1	0	1021.3	+1	21	+2	NE	1	*	0	0	*	*	*	
Petrograd ...	1024.0	19	NE	3	b	1026.0	+2	19	+10	E	4	*	5	*	2	23	7	
Moscow ...	1019.9	19	ESE	6	s	1021.6	+2	16	0	ESE	4	*	5	*	2	*	16	
Kiev ...	1011.4	27	NY	2	0	1015.7	+4	27	+4	NW	2	*	0	*	*	*	23	
Kharkov ...	1007.4	34	SW	2	f	1014.2	+3	30	-6	WSW	2	*	0	*	3	*	*	
Kishinev ...	1014.6	32	-	0	0	1017.9	+1	32	*	NE	1	*	0	*	*	*	28	
Elisabetgrad ...	1013.1	30	WNW	2	b	1016.8	+3	28	-4	WNW	2	*	0	*	*	*	27	
Nicolaiev ...	1014.6	34	-	0	b	1017.5	*	32	0	-	0	*	0	0	1	*	23	
Odessa ...	1013.7	36	NW	2	b	1017.1	+3	34	+2	NE	2	*	0	0	*	*	32	

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.	min. §					Hr.	England, E.	min. §					Hr.
{ Oban ... ..	.	41	29	b	bc	4.4	{ Lowestoft ... ..	3	40	30	o.c.oph	ophr	0.0
{ Banff ... ..	2	38	30	bc.ops	bcps	1.9	{ Felixstowe ... ..	7	38	28	ops	opi	0.0
{ St. Andrews ... ..	.	.	.	*	*	.	{ Walton-on-Naze ... ..	5	37	28	ococo	op.ox	0.0
							{ Southend-on-Sea ... ..	11	36	30	odrs	odrs	0.0
Eng. N.E.													
{ Harrogate ... ..	4	36	28	bc.csp	c.osp	2.7	{ Margate ... ..	9	39	31	org	or	0.0
{ Skegness ... ..	4	39	31	osh.bc	bc.o	5.4	{ Ramsgate ... ..	15	36	29	sr	r	0.0
							{ Hastings ... ..	6	34	29	os.o	o	0.0
Eng. N.W.							{ Eastbourne ... ..	6	35	28	os	os	0.0
{ Morecambe ... ..	.	37	31	bc	c	3.0	{ Seaford ... ..	7	34	27	s.o	s	0.0
{ Blackpool ... ..	.	.	.	.	.	.	{ Brighton ... ..	.	.	.	.	.	.
{ Southport ... ..	.	43	29	bc.c.o	c.o.c.bc	1.7	{ Worthing ... ..	8	34	29	cs	s	0.1
							{ Littlehampton ... ..	7	34	31	b.os	s	0.5
Midlands							{ Bognor ... ..	.	.	.	.	.	.
{ Buxton ... ..	8	34	28	bc	bc	1.3	{ Southsea ... ..	.	.	.	.	.	.
{ Leamington Spa ... ..	2	37	31	o.cs	o.cs	2.2	{ Bournemouth ... ..	5	36	29	b.s	s	1.5
{ Malvern ... ..	.	.	.	.	.	.							
{ Ross-on-Wye ... ..	1	38	30	s.c	s.o.bc	0.1	England, S.W.						
							{ Weymouth ... ..	4	38	30	bc.c.o	s.or	1.1
Wales.							{ Torquay ... ..	4	38	33	bc.c.os	op	1.7
{ Rhyl ... ..	.	40	33	c	c	0.0	{ Paignton ... ..	.	.	.	.	.	.
{ Colwyn Bay ... ..	.	39	34	c	c	0.1	{ Penzance ... ..	2	42	35	bc.c	or	4.0
{ Llandudno ... ..	.	41	35	c	c	1.5	{ Newquay ... ..	.	39	35	bc	o	3.3
{ Aberystwyth ... ..	3	40	32	s.c.c	c.b.o	1.5	{ Ilfracombe ... ..	.	40	35	bc.c.o	o	0.5
{ Tenby ... ..	.	41	34	bc.c.o	bc	2.8	{ Weston-super-Mare ... ..	1	38	31	s.c	c	0.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall. mm. §	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.				
Greenwich (Royal Obs.) ...	82	98	0.0	36	32	31	0.5	0.06	0.0
City (Banhill Row) ...	83	95	0.0	38	33	32	0.5	0.05	0.05
Westminster (St. James's Pk.)	83	95	0.0	38	33	32	0.5	0.05	0.05
Camden Sq. (Brit. Rainfall)	80	92	0.0	37	32	31	0.5	0.05	0.05
Hampstead (Reservoir) ...	*	88	0.0	35	29	27	4	0.5	0.5
Richmond Park ...	*	*	0.0						
Kew. (See front page.)	*	*	0.0						
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.									
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.	Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)				249 Joules	62 Milliwatts.		22 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN FALL. mm. §	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day. Hr.
		In Screen.	Min.					
		Max.	Min.					
Dublin to 4 p.m.								*
Darwen to 9 p.m.								*
Manchester "								*
Birmingham "								*
Oxford to 8 p.m.								*
Teignmouth to 9 "	2	33	32	27	b.csp	bc.o	o	0.1
Plymouth "								*
S. Kensington (Museum Grounds to 6 p.m.)	7	36	30	*	o	0.5	0.0	*

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> March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.24	12.44	6.41
Greenwich ...	6.33	12.11	5.51
Wick ...	6.51	12.23	5.58
Valencia ...	7.15	12.52	6.30

## NOTES ON YESTERDAY'S WEATHER.

Sunshine was plentiful in the West of Scotland and in Ireland. Much snow and sleet fell in the South-East of England, with precipitation up to 25 mm. at Dover. Temperature fell to about the freezing point in most parts.

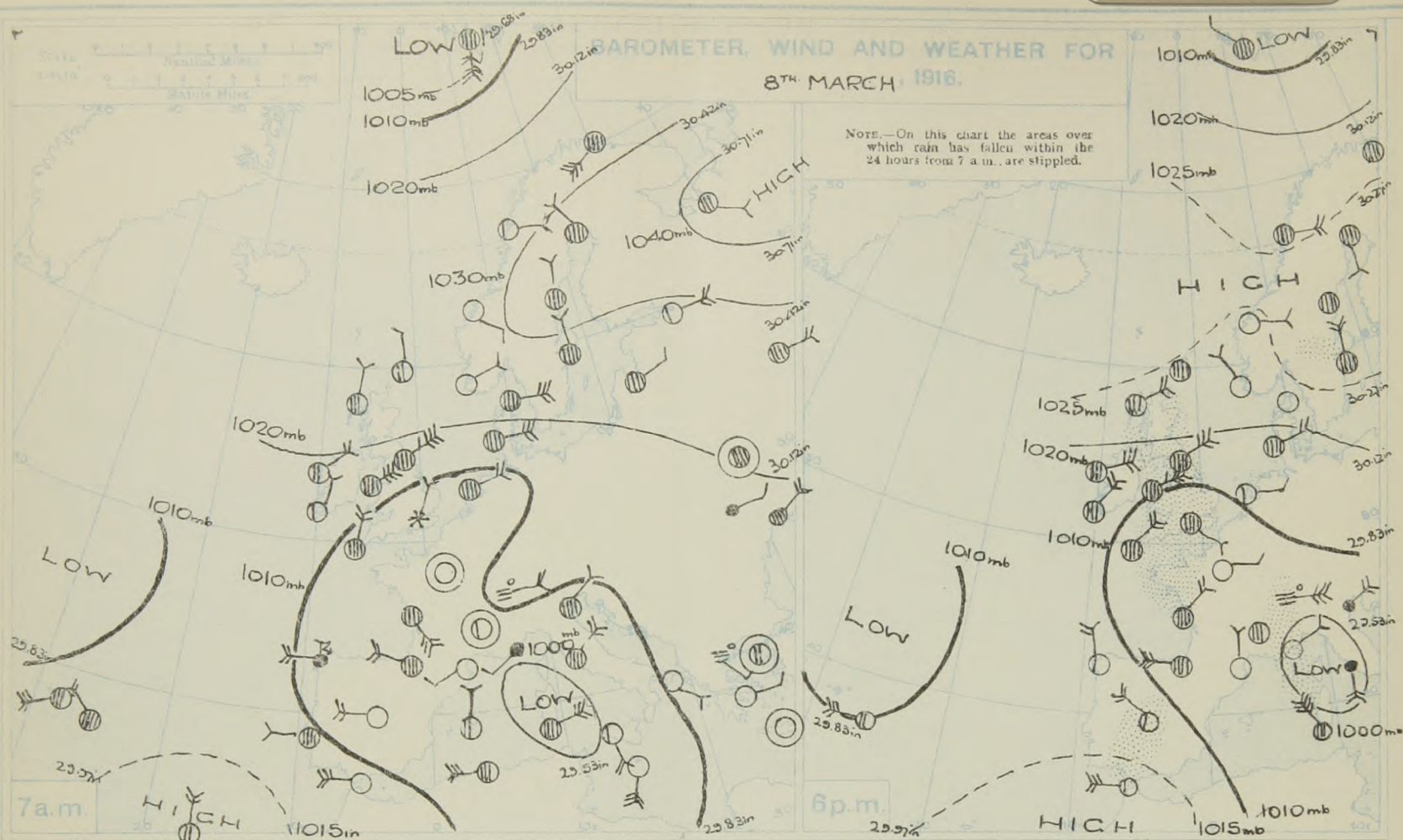
NOTE.—The information relating to weather is indicated by the following letters:—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling rain; e, wet air, without rain falling; f, fog; g, gloom; h, hail; i, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r, rain; s, snow; t, thunder; u, ugly, threatening sky; v, visibility; w, unusual transparency; x, dew; y, 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 id. at M.O. and at the bookstalls at certain Railway Termini in London.



STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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.		WIND.		Dirac. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dirac.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dirac.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	10250	34	-	0	10256	-1	35	0	-	0	-	c	0	-	42	32	bc	c	bcx	Hours.
	Deerness (Orkney)	10244	38	ENE	3	10237	*	35	0	NW	2	E	c	2	-	43	35	bc c	c. o	c. c	38
	Stornoway	10249	39	ENE	4	10238	0	34	-2	N	1	-	o	1	1	42	34	c bc	bc	bc. op	63
	Castlebay (Barra Is.)	10225	40	NE	4	10228	0	39	+2	NNE	2	-	o	2	-	41	36	bc	bc	bc. c	97
	Glasgow	10200	34	EVE	3	10210	0	33	-1	NE	3	-	og	*	0.4	35	32	asp	o	og. o	0.1
	Eskdalemuir	10180	30	NE	6	10199	0	30	-1	NE	4	-	o	*	0.1	32	29	ops o	os	as o	0.0
	Malin Head	10186	37	NE	5	10201	0	36	+1	E	6	E	cq	6	-	39	34	cq	bcg	cq	2.2
	Blackod Point	10178	37	ENE	5	10179	-1	35	0	ENE	5	E	cq	3	-	39	32	bcv	ops	og. c	*
	Valencia	10141	38	NNE	4	10137	-1	35	44	NE	4	NE	c	*	-	41	30	bc c	c. c	c. o. c	5.0
	Roche's Point	10131	38	NE	3	10112	*	36	+3	NE	3	-	o	2	0.2	40	33	o	op	op	*
	Birr Castle	10146	35	N	3	10157	*	33	44	N	3	-	o	*	1	39	29	c. o	c. os	o	0.6
	Donaghadee	10169	38	ENE	6	10180	0	36	-1	ENE	5	E	bcg	4	-	39	35	cq. gm	cq. gm	ogmbc	*
	Liverpool (Bidston)	10110	35	NNE	3	10149	+2	35	+2	ENE	2	E	o	2	1	37	33	o	o	op	0.0
	Holyhead	10123	38	ENE	7	10142	+1	37	0	E	5	E	omc	5	2	39	35	ops	ops o	ops. oe	0.0
	Pembroke (St. Ann's)	10053	37	NNE	4	10118	+1	35	0	ENE	3	NE	bm	3	-	39	33	cq. ph	cq	om. om	0.0
	Silly (St. Mary's)	10058	40	NE	4	10071	+1	37	-2	ENE	5	E	cq	5	5	40	37	cq. ph	cq. ph	cq. ph	0.6
	Falmouth	10054	36	NNE	3	10091	+2	34	0	NE	3	SE	c	*	3	39	33	ops c	ops c	bc. ph	1.5
	Jersey (St. Aubin)	10040	40	ESE	1	10088	*	38	44	E	3	-	o	2	0.2	41	33	m. asp	o. bc	c. o	2.4
	Portland Bill	10045	38	NE	5	10101	+1	36	+2	ENE	5	NE	bc	4	7	41	33	ops	c	o. ops	*
	Dungeness	10072	37	N	3	10121	+2	36	44	ENE	3	E	bc	3	3	40	31	cs c	c. bc	bc. bc	*
	Dover	10091	37	SSW	1	10125	+2	34	+1	NE	2	NE	bcx	2	1	40	31	ors bc	c. bc	bc. bc	2.9
	Wick	10247	40	ENE	3	10232	0	40	+2	ENE	1	-	c	3	0.1	40	36	cp. h c	c. om	om	*
	Nairn	10237	37	E	2	10229	*	32	+1	-	0	-	og	1	0.2	39	30	bc	cq	om	2.8
	Aberdeen	10231	35	E	5	10226	+1	36	0	ENE	4	-	o	4	0.2	40	35	bc. bc	bc. bc	bc. o	3.7
	Leith	10197	35	NE	6	10197	0	35	-1	NE	4	-	o	7	1	37	34	asp. o	og. sp	osp. o	*
Tynemouth	10157	37	ENE	5	10178	+1	37	+2	ENE	5	-	omg. ph	6	1	37	34	omg. ph	ogmg	omg. ph	*	
Spurn Head	10101	36	ESE	6	10151	+2	38	+3	ESE	4	-	o	5	5	38	34	os. o	og. h	og. h	0.0	
Yarmouth	10092	37	SE	4	10143	+2	37	+1	E	3	-	bc	3	2	38	34	op	bc. o	bc	0.0	
Clacton-on-Sea	10084	38	SE	2	10133	+2	33	-1	NNE	2	bc	c	1	3	40	32	ogs bc	bc. bc	bc. bc	2.6	
Nottingham	10110	35	NE	4	10146	*	33	-1	NE	2	-	bc	3	3	36	33	s	s. h	ts. o	0.0	
Benson (Oxona)	10076	35	NE	2	10139	+3	25	-7	ENE	1	-	bc	1	1	35	23	f. o	o	bc	*	
St. Farnborough	10075	34	ENE	2	10131	+2	24	-8	-	0	-	fx	2	2	35	21	a. oz	o. bc	bc. m. fx	0.2	
London (Kew Obs.)	10081	37	SE	1	10136	+2	30	-3	ENE	1	E	omx	2	2	40	28	om. om	om. om	om. om	1.6	
NORTHERN EUROPE.	Spitsbergen	10078	27	NW	1	10183	+3	28	-9	-	0	-	s	*	32	21	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.30 am.  300 feet. NE by E 3 m.p.h.				
	Vardö	10237	21	-	0	10235	0	23	+3	SW	5	-	o	3	23	12					
	Bodö	10215	23	E	4	10218	-1	25	+6	E	4	-	s	2	25	16					
	Christiansund	10242	28	E	2	10184	-2	34	+9	NW	4	-	o	3	34	23	RAINFALL Equivalents of Millimetres in Inches.				
	Skudesnaes	10234	32	NW	2	10202	+3	28	0	NE	2	-	c	1	37	23					
	Færder (Xania Fjord)	10264	23	E	4	10220	-2	23	+4	ENE	2	-	o	1	23	19					
	The Scav (Skagen)	10233	25	ENE	5	10206	0	27	+6	E	4	-	o	4	27	19					
	Blaavands Huk	10170	30	ENE	3	10189	0	28	-2	ENE	3	-	o	3	32	27					
	Haparanda	10295	16	S	2	10243	-2	9	+17	SSE	2	-	o	*	18	-8					
	Hernösand	10291	16	-	0	10224	0	18	+18	-	0	-	o	*	18	-8					
Stockholm	10261	19	N	4	10215	-1	21	+9	NNE	2	-	o	*	Trace	21	12					
Wisby	10231	27	ENE	2	10187	-1	27	+2	ENE	2	-	o	*	Trace	28	25					
Karlstad	10270	19	-	0	10221	-4	18	+6	ENE	2	-	s	*	Trace	21	9					
FRANCE, &c.	The Helder	10117	36	E	1	10136	0	34	+2	NE	2	-	o	1	37	30					
	C. Gris Nez	10080	34	E	2	10117	+2	32	0	E	2	-	bc	2	41	30					
	La Hève	10078	37	ESE	2	10099	*	33	+3	ENE	3	-	bc	2	39	28					
	Brest (St. Mathieu)	10059	35	N	2	10070	0	37	+5	ESE	4	-	o	3	39	32					
	Rochefort (Ile d'Aix)	10242	37	NNE	3	10086	0	34	-1	SE	3	-	c	1	45	32					
	Biarritz	10053	41	W	6	10082	0	37	-2	E	3	-	c	2	43	37					
	Paris	10064	36	E	1	10093	+2	28	+3	N	2	SE	bc	*	45	23					
	Belfort	10043	33	E	6	10057	*	30	+9	-	0	-	s	*	37	21					
	Lyons	10039	37	N	1	10073	*	33	+10	NW	2	-	bc	*	34	23					
	Nice	9970	36	ENE	2	9979	0	35	-3	E	4	-	bc	3	41	32					
SOUTHERN EUROPE.	Perpignan	10020	45	N	2	10075	+2	39	+11	NW	4	NW	bc	*	54	23					
	Sanguinaire	*	53	NW	8	*	*	46	-4	NW	6	-	bc	7	62	41					
	Corunna (7 a.m.)	10106	48	NNW	3	10070	-7	41	-2	SSE	4	-	o	3	48	37					
	Madrid (8 a.m.)	10031	43	NNW	4	10124	-1	34	-2	-	0	-	s	*	45	32					
	Lisbon (7 a.m.)																				
	Gibraltar	10169	55	W	5	10149	*	55	+8	W	6	-	bc	4	57	46					
	Malta (8 a.m.)	*	*	*	*	10092	+3	54	-3	NNW	5	-	bc	4	64	52					
	Azores (Horta, 8 a.m.)	10080	*	WSW	8	bc															
	Madeira (Funchal)																				
	YESTERDAY'S REPORTS		March 7 <sup>th</sup> , 8 P.M., G.M.T.										March 8 <sup>th</sup> , 7 A.M., G.M.T.								
ITALY.	Venice	10071	46	SW	4	10086	0	41	-4	NE	2	-	o	3	*	*	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	0.04 0.08 0.12 0.16 0.20 0.24 0.28 0.32 0.35 0.39 0.43 0.47 0.51 0.55 0.59 0.63 0.67 0.71 0.75 0.79 0.83 0.87 0.91 0.95 0.98	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	1.02 1.06 1.10 1.14 1.18 1.22 1.26 1.30 1.34 1.38 1.42 1.46 1.50 1.54 1.58 1.61 1.65 1.69 1.73 1.77 1.81 1.85 1.89 1.93 1.97	
	Turin	10050	29	NE	4	10080	0	36													
	Florence	10074	43	S	2	10047	0	43													
	Pesaro	10083	46	SE	2	10077	0	45													
	Leghorn					10042	0	43													
	Rome	10093	46	-	0	10024	0	50													
	Brindisi	10116	52	SSE	4	10106	0	48													
	Cagliari	10046	41	NNE	7	9953	0	48													
	Palermo					10001	0	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.

South  
Coast.  
North  
Coast.

Signals hoisted this morning.

South  
Coast.  
North  
Coast.

**No Warnings  
Issued.**

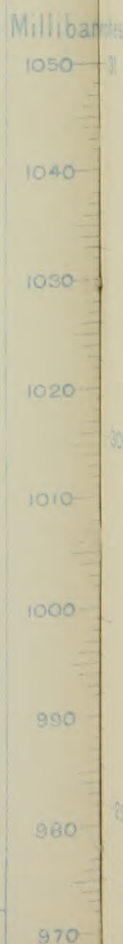
Western Channel and Bay

Light variable Easterly winds; cloudy; cold.

Moderate Easterly winds; fair with slight  
showers; some night fog; cold.

Moderate Easterly winds and moderate sea;  
cloudy, some showers.

**FURTHER OUTLOOK.**

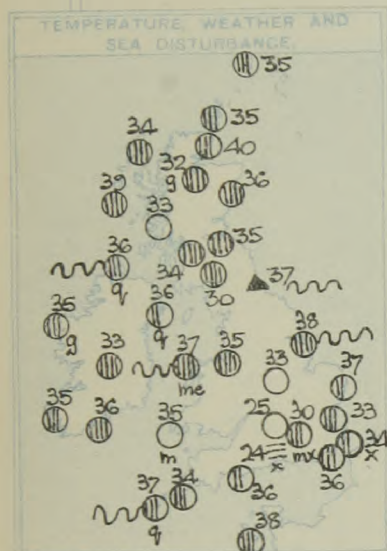




# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 9<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE.

Pressure is becoming more uniform and light Easterly winds may be expected over the country generally.



## EXPLANATION.

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

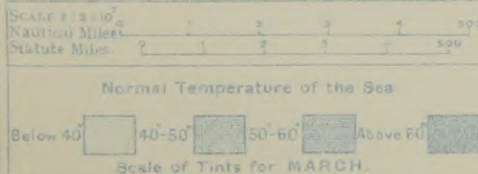
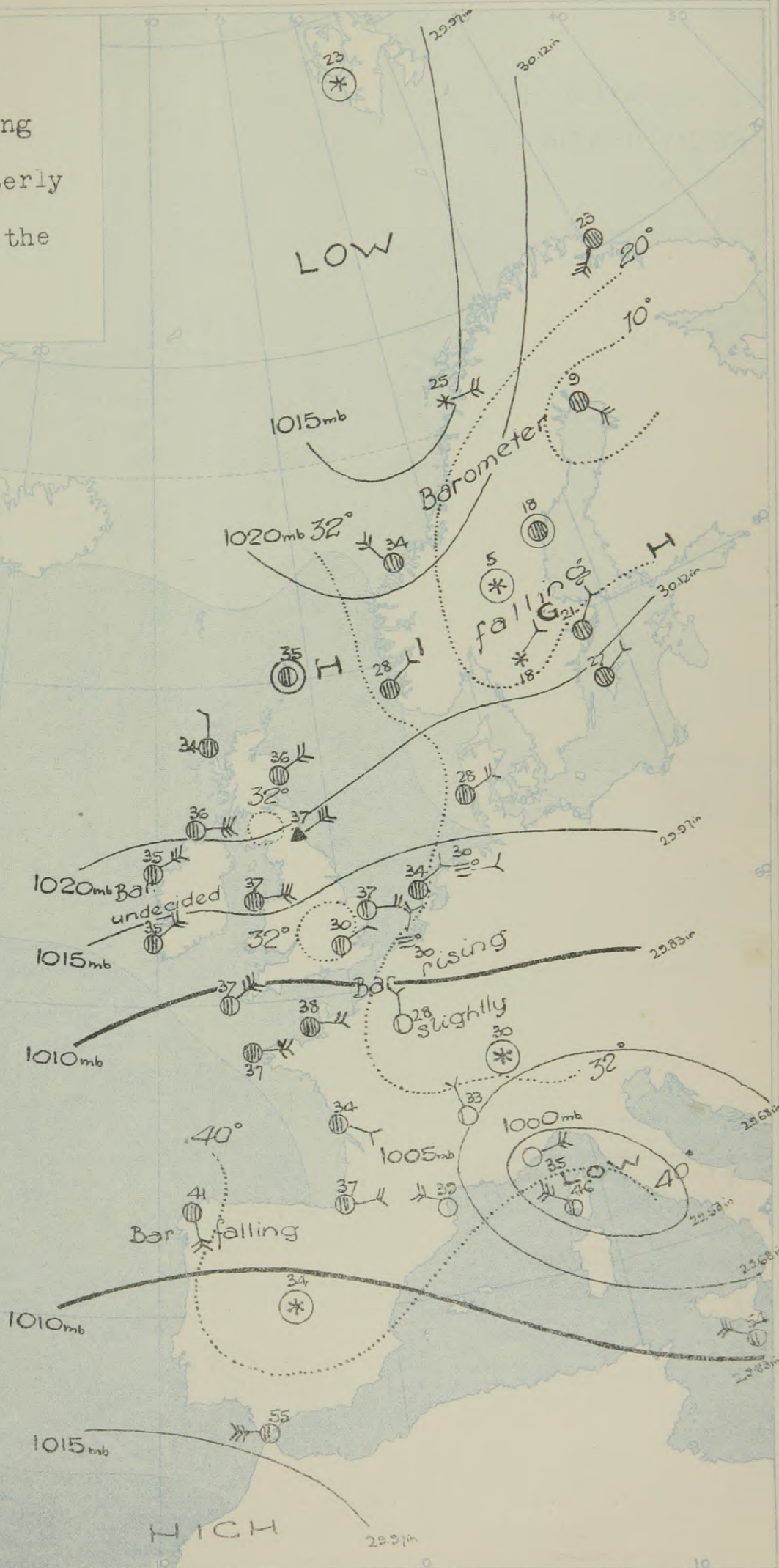
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

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

○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded. ○ sky ¾ clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

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





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	Barom. Milli- bars at M.S.L.	TEMP. AT 9 P.M. LOCAL TIME.			TEMP. AT 7 A.M. LOCAL TIME.								Dirco. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
		Temp.	Wind.	Force 0-12.	Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind.	Force 0-12.	Dirco. of Upper Cloud.					Max.	Min.
Archangel ...	1040.4	9	SE	1	b	1043.3	+1	-2	-	SE	2	*	c	*	-	*	-4	
Uleaborg ...	1033.5	12	E	3	b	1034.0	0	14	+9	SE	3	*	o	*	-	*	*	
Helsingfors ...	1028.4	19	ENE	3	S	1029.8	+1	16	+6	ENE	3	*	S	*	7	*	*	
Hangö ...	1028.0	18	-	0	S	1028.2	+1	19	+10	ENE	2	*	S	*	1	*	*	
Riga ...	1023.0	25	ENE	2	0	1024.7	+2	23	+2	ENE	1	*	0	*	-	*	*	
Petrograd ...	1024.1	23	E	4	0	1032.2	0	9	-10	E	4	-	b	*	-	25	9	
Moscow ...	1018.9	18	NE	4	0	1028.6	+2	16	0	ENE	3	*	0	*	-	*	14	
Kiev ...	1019.5	28	-	0	0	1020.6	+1	27	0	-	0	*	0	*	-	*	25	
Kharkov ...	1019.6	32	W	1	0	1021.6	+1	30	0	W	1	*	0	*	-	*	25	
Kishinev ...	1017.7	34	ESE	3	0	1019.7	0	36	+4	E	2	*	r	*	4	*	32	
Elisabetgrad ...	1019.3	30	-	0	b	1014.3	0	32	+4	E	3	*	S	*	-	*	28	
Nicolaiev ...	1017.3	39	NE	2	0	1018.0	0	37	+5	ENE	4	*	0	*	-	*	30	
Odessa ...	1017.5	37	ESE	2	0	1017.2	0	37	+3	SE	3	*	0	*	-	*	32	

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		° F.	° F.				England, E.		° F.	° F.			
Oban ...	-	40	27	bc	bc	2.4	Lowestoft ...	7	39	35	or	or	0.0
Banff ...	-	40	29	bc.c	bcps.c	1.6	Felixstowe ...	11	41	32	ops.bc	bc.o	2.6
St. Andrews ...	2	37	32	*	*	0.3	Walton-on-Naze ...	13	42	32	bc.c.bc	b.c.b.c	2.8
							Southend-on-Sea ...	8	42	32	OS.c.bc	o.s.bc.b	3.0
Eng. N.E.							England, S.E.						
Harrogate ...	2	33	30	osp	osp	0.0	Margate ...	4	41	33	cs.b.bc	c.bc	2.7
Skegness ...	6	37	33	ou	oug	0.0	Ramsgate ...	12	40	32	s.bc	bc	5.4
							Hastings ...	11	40	32	os.c	bc	4.4
Eng. N.W.							Eastbourne ...	8	42	32	o	bm	4.3
Morecambe ...	-	38	33	c	c	0.0	Seaford ...	8	43	31	or	bc	4.3
Blackpool ...	-	39	31	o.c.o	o.c.phs	0.3	Brighton ...	9	40	?	OS	s.os.b.c	4.2
Southport ...	-	39	31	o.c.o	o.c.phs	0.3	Worthing ...	4	42	33	o.bc	bc	3.1
							Littlehampton ...	4	40	32	b.bc	c.b	3.0
Midlands							Bognor ...	4	40	33	o.bc	bc	4.4
Buxton ...	4	36	32	os	os	0.0	Southsea ...	13	37	32	S.o	o	0.1
Leamington Spa ...	2	34	31	os	S.o	0.0	Bournemouth ...	13	37	32	S.o	o	0.1
Malvern ...	2	34	31	os	S.o	0.0							
Ross-on-Wye ...	4	36	31	osx	OS.c	0.0	England, S.W.						
							Weymouth ...	6	37	32	ors.c	bez	0.0
Wales.							Torquay ...	3	38	34	ocp	c.op	4.4
Rhyl ...	-	37	33	g	o	0.0	Paignton ...	-	-	-	-	-	-
Colwyn Bay ...	-	38	34	c	c	0.0	Penzance ...	6	42	33	ors.bc	ors	1.2
Llandudno ...	0.1	37	34	b.c	c	0.0	Newquay ...	*	38	34	osr	op.c	5.9
Aberystwyth ...	-	39	32	S.O.C	c.o	0.2	Ilfracombe ...	1	40	34	op.o	o	0.0
Tenby ...	0.3	39	33	bc.c	bg	0.0	Weston-super-Mare ...	3	37	31	sr	sr.c	0.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.	Min. on Grass.	Max.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	82	70	0.9	40	24	20	mm. §	cs	c	bc.c
City (Bunhill Row) ...	*	*	0.1	*	*	*		*	*	*
Westminster (St. James's Pk.)	74	77	1.0	41	31	27	2	osr.o	o.om	om
Camden Sq. (Brit. Rainfall)	78	72	0.0	38	27	22	1	os.o	o	*
Hampstead (Reservoir) ...	*	71	0.0	35	28	18	1	bm.x	bcx	c
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	1.6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	76	78	1.2	7.400	Joules	2.10	Milliwatts.	54	Milliwatts.	

## Additional Observations for Yesterday.

STATIONS.	RAIN FALL.	TEMPERATURE.		Night.	WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.		Fore- noon.	After- noon.	
Dublin to 4 p.m.	1	40	35	32	c.op	ophs	osd
Darwen to 9 p.m.	1	34	30	28	c.as	os	os
Manchester "	1	36	33	*	o.s	os	os
Birmingham "							
Oxford to 8 p.m.	*						
Teignmouth to 9 "	1	37	33	31	o.s	os	o
Plymouth "							
S. Kensington (Museum Grounds to 6 p.m.)	7	40	33	-	o.ad.as	os.o	og

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

Max. 9 a.m. 1916.	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.24	G.M.T. 12.4	G.M.T. 6.43
Greenwich ...	G.M.T. 6.22	G.M.T. 12.4	G.M.T. 5.45
Wick ...	G.M.T. 6.29	G.M.T. 12.11	G.M.T. 5.51
Valencia ...	G.M.T. 6.49	G.M.T. 12.23	G.M.T. 5.56
	G.M.T. 6.47	G.M.T. 12.23	G.M.T. 5.54
	G.M.T. 7.13	G.M.T. 12.52	G.M.T. 6.32
	G.M.T. 7.11	G.M.T. 12.52	G.M.T. 6.34

## NOTES ON YESTERDAY'S WEATHER.

Some showers were experienced, but weather became fairer generally during yesterday. Amounts of sunshine ranged up to 9.7 hours at Castlebay. Few maxima exceeded 40° and temperature fell to 21° at South Farnborough during the night.

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. and at the bookstalls at certain Railway Termini in London.

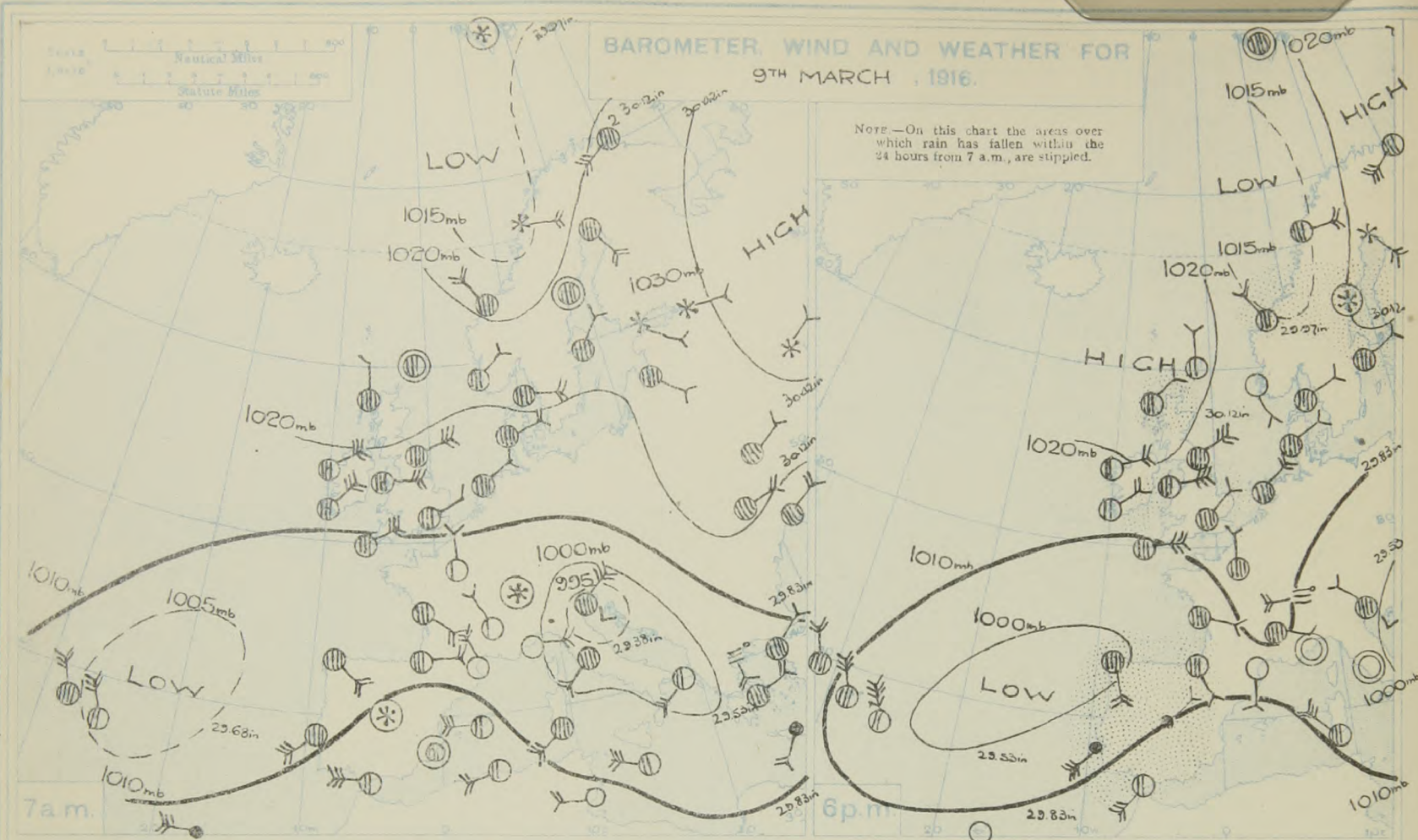


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 70

Friday  
12th March

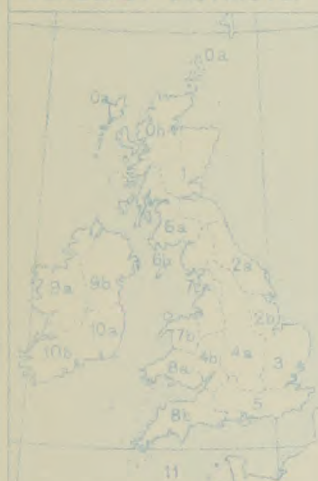
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.				
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 24 hours.	TEMP.		WIND.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.							
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.							Direc.	Max.	Min.	Morning.	Afternoon.		Night.			
BRITISH ISLANDS.																									
Lerwick ...	1022.8	38	N	2	bc	1012.1	-2	37	+2	NNW	3	-	0	3	-	42	38	o	bc	co					
Deerness (Orkney) ...	1022.7	38	N	5	c	1018.6	*	37	+2	NNW	4	N	0	2	1	43	35	c	cp	co	26				
Stornoway ...	?	40	NE	2	c	1021.4	-1	37	+3	N	3	-	c	3	1	44	34	o.c	cp	c-o.p.c	18				
Castlebay (Barra Isd.) ...	1023.0	40	NE	3	o	1021.2	0	38	-1	NNW	2	-	0	2	-	40	36	o	o	o.b.o	00				
Glasgow ...	1022.1	35	ENE	2	c	1019.2	-1	35	+2	NE	2	-	og	1	0.1	36	31	asp.c	o	c.o.p	00				
Eskdalemuir ...	1021.5	31	NE	3	o	1018.1	0	32	+2	NNE	3	-	0	1	0.2	34	29	asp.c	cp.s.o	o.as.d	30				
Malin Head ...	1020.4	37	E	4	cg	1019.0	-2	39	+3	ENE	3	E	cg	3	-	38	35	cg	cm	cg	0.1				
Blackrock Point ...	1018.1	38	ENE	4	bc	1017.5	-2	35	0	ENE	3	E	cm	3	-	40	32	bc	bc	cm	*				
Valencia ...	1014.3	40	ENE	3	bc	1013.3	0	35	0	NE	4	NE	cx	*	-	42	34	bc.c	c.bc	bz.b.c	23				
Roches Point ...	1015.9	39	E	2	b	1014.3	*	35	-1	NE	2	-	0	2	4	42	34	ops	s.o.b	z.o.p	*				
Birr Castle ...	1017.0	40	NE	1	c	1016.0	*	33	0	NE	2	-	s	*	-	42	32	os.c	c	as	25				
Donaghadee ...	1019.4	39	E	4	cg.m	1017.8	0	37	+1	ENE	4	-	og.m	3	-	41	35	cg	cp.hs	og.m	*				
Liverpool (Bldston) ...	1017.5	36	NE	3	o	1015.5	-1	32	-3	NE	2	E	0	2	-	40	32	om	a.om	o	0.2				
Holyhead ...	1017.1	39	E	6	cm	1015.0	-2	36	-1	E	5	-	ops	4	1	40	34	o.c.m	o.c.o.m	o.c.p.s	3.8				
Pembroke (St. Ann's) ...	1014.1	40	E	3	bc	1011.8	-1	35	0	E	4	E	c	3	-	43	34	bc	bc	c	0.7				
Silly (St. Mary's) ...	1009.7	42	E	6	cg	1006.8	-1	35	-2	ENE	5	E	bc	6	2	44	35	cg.ps	cg.ps	cp.b.c	4.0				
Falmouth ...	1011.6	40	ENE	4	bc.z	1008.8	-2	33	-1	NE	4	E	b.c.x	*	6	43	32	all.h.s	b.b.c	bc.x	3.5				
Jersey (St. Aubin) ...	1010.4	41	E	4	b	1006.1	*	36	-2	ENE	5	NE	b	4	-	46	36	o.b	b	b	9.6				
Portland Bill ...	1011.9	40	ENE	5	bc	1008.6	-3	36	0	NE	5	E	bc	4	-	42	34	bc	bc	b.b.c	*				
Dungeness ...	1012.1	37	NE	3	o	1008.6	-2	38	+2	E	4	-	0	4	-	42	36	b.b.c	c.o	cp.o	*				
Dover ...	1013.4	35	NNE	4	c	1008.8	-4	37	+3	NE	5	NE	c	4	0.4	41	34	bc.c	op.h.c	c.o	0.7				
Wick ...	1022.6	40	N	3	o	1019.8	-2	38	-2	N	2	-	c	2	2	42	34	phr.b.c	bc.om	om.c	*				
Nairn ...	1022.8	36	-	0	bc	1020.2	*	34	+2	-	0	-	c	1	-	41	31	cg.bc	bc.c.b.c	bc.x	6.9				
Aberdeen ...	1021.9	38	NNE	2	c	1018.7	-1	36	0	NNW	2	-	0	3	1	43	35	o.c	bc	c.o.p	4.4				
Leith ...	1020.8	36	ENE	2	c	1018.0	-1	37	+2	NE	2	-	0	4	2	38	33	asp.o	o	c.o.p	*				
Tynemouth ...	1019.3	36	ENE	5	om.g.p.h	1016.7	-3	35	-2	N	3	N	cm	4	-	37	33	om.g.p.s	om.g.p.s	cg.m	*				
Spurn Head ...	1017.2	35	E	4	cg.ps	1015.1	-2	35	-3	E	5	-	og	5	2	38	32	o.c.g.ps	og.ps	cp.s.c	0.0				
Yarmouth ...	1014.5	37	ENE	4	bc.p	1012.3	-2	36	-1	NE	5	-	cp	5	Trace	40	36	bc.o	bc.c.p	b.p.m	0.3				
Clacton-on-Sea ...	1013.8	37	NE	3	o	1010.8	-1	36	+3	N	3	NE	0	2	1	42	32	c.b.c	c.og	cg.ps	4.9				
Nottingham ...	1016.4	35	NE	4	s	1014.1	*	33	0	NE	4	NE	0	4	2	40	31	bc.c.s	o.c.h.s	s	2.5				
Benson (Oxon.) ...	1014.3	37	ENE	2	o	1011.4	-2	33	+8	NE	4	-	0	*	-	41	25	b	bc.c	o	*				
Stb Farnborough ...	1013.6	37	NE	2	o	1010.5	-2	34	+10	NE	3	-	0	*	-	39	23	f.m.b.c	bc.o	o	1.5				
London (Kew Obs.) ...	1014.1	38	NE	2	om	1011.2	-2	35	+5	NE	3	-	0	*	0.1	41	29	b.b.c	om.x	om.om	1.3				
NORTHERN EUROPE.																									
Spitsbergen ...	1019.7	21	-	0	o	1021.3	0	21	-7	SSE	2	-	c	*	*	23	14	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.30 a.m.  1000 ft NE 25 mph.							
Vardö ...	1024.4	23	SW	6	c	1020.0	+3	19	-4	SW	4	-	c	2	*	23	18								
Bodö ...	1013.5	23	E	4	c	1017.9	+5	25	0	E	5	-	b	2	-	27	23								
Christiansund ...	1015.7	34	NW	3	c	1011.7	-1	34	0	-	0	-	s	4	9	36	34								
Skudesnaes ...	1017.9	34	SE	2	b	1014.3	-4	32	+4	-	0	-	c	1	-	36	28								
Færder (Tania Fjord) ...	1018.4	23	NE	1	b	1016.7	0	21	-2	N	2	-	f	1	-	25	19	GALES Duration and Extreme Force in British Islands.							
The Scaw (Skagen) ...	1018.1	27	NE	2	o	1015.8	0	25	-2	ENE	2	-	0	2	-	27	25								
Blaavands Huk ...	1017.1	30	NE	2	o	1014.9	0	27	-1	NNE	2	-	0	1	-	32	25								
Haparanda ...	1024.6	16	SE	4	s	1027.4	+2	16	+7	E	2	-	s	*	Trace	16	9								
Hernösand ...	1020.0	19	-	0	s	1020.8	+2	18	0	-	0	-	s	*	2	21	16								
Stockholm ...	1018.0	25	ENE	2	o	1015.7	0	27	+6	E	2	-	s	*	4	27	21	Notes  Eskdalemuir: 9 <sup>th</sup> 6 p.m. 1 inch of snow lying.  Falmouth: 9 <sup>th</sup> March Thunder lightning & hail, 8.15 a.m. to 8.30 a.m.  Penzance: 9 <sup>th</sup> March Thunderstorm in forenoon							
Wisby ...	1015.8	28	NE	2	o	1013.5	0	30	+3	ESE	2	-	0	*	1	30	27								
Karlstad ...	1016.9	23	-	0	o	1017.1	-1	19	+1	-	0	-	0	*	Trace	27	18								
The Helder ...	1013.7	36	NE	4	o	1011.4	0	34	0	NE	5	-	0	3	-	36	34								
C. Gris Nez ...	1011.8	37	NE	4	o	1007.8	-4	37	+5	NE	5	-	0	4	-	39	32								
La Hève ...	1010.6	37	E	3	c	1007.8	*	32	-1	NE	3	-	m	2	-	37	30	ITALY.  At Lisbon the hours of observation have been altered to 7 a.m. and 6 p.m. G.M.T. from March 1st.							
Brest (St. Mathieu) ...	1008.0	43	SE	3	c	1003.7	0	34	-3	ENE	4	-	c	3	-	43	32								
Rochefort (le d'Aix) ...	1007.9	42	ESE	2	o	1000.7	-4	37	+3	E	5	-	0	*	-	46	34								
Biarritz ...	1006.6	49	SSE	2	c	995.5	-7	45	+8	ESE	3	-	0	1	1	52	37								
Paris ...	1010.9	36	N	2	o	1007.1	-2	30	+2	N	1	-	0	*	Trace	43	28								
Belfort ...	1009.2	30	W	4	m	1009.3	*	30	0	W	3	-	0	*	1	34	29	SOUTHERN EUROPE.  Corunna (7 a.m.) ... 999.9 52 SSE 4 o 987.8 -2 50 +9 S 4 - 0 2 6 54 41 Madrid (8 a.m.) ... 1010.0 37 NE 2 h 999.5 +2 43 +9 SEW 1 - 0 1 11 43 34 Lisbon (7 a.m.) ... 999.1 55 SW 6 h 991.4 -3 54 - SW 5 - 0 8 7 59 52 Gibraltar ... 1010.1 57 SW 5 bc 1001.0 * 57 +2 SW 8 * h 5 22 62 53 Malta (8 a.m.) ... * * * * 1011.5 +1 54 0 WNW 3 - h 3 Trace 55 52							
Lyons ...	1011.3	36	ESE	1	o	1008.4	*	27	-6	SW	1	-	b	*	-	40	46								
Nice ...	1002.0	43	-	0	b	1005.1	+2	40	+5	-	0	-	c	3	-	52	35								
Perpignan ...	1008.0	45	S	1	b	1002.9	-3	36	-3	-	0	-	0	*	-	57	36								
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
YESTERDAY'S REPORTS																									
8 <sup>th</sup> March 8 P.M. G.M.T.																									
Venice ...	999.3	45	ENE	4	h	994.9	0	45	+4	NE	5	-	0	5	60	*	*	ITALY.  At Lisbon the hours of observation have been altered to 7 a.m. and 6 p.m. G.M.T. from March 1st.							
Turin ...	997.7	37	-	0	h	997.4	0	37	+1	-	0	-	0	*	15	*	*								
Florence ...	993.9	45	-	0	h	997.0	+4	45	+2	-	0	-	0	*	18	*	*								
Pesaro ...	996.3	52	ENE	2	o	995.3	+3	43	-2	WNW	3	-	0	4	10	*	*								
Leghorn ...	*	*	*	*	*	997.4	+1	48	+5	N	5	-	bc	5	22	*	*								
Rome ...	994.9	54	S	4	h	999.0	+6	46	-4	SW	3	-	0	*	10	*	*								
Brindisi ...	1003.1	52	SE	4	o	997.7	-2	52	+4	SW	5	-	bc	4	9	*	*								
Cagliari ...	1001.7	48	NW	7	c	1004.7	0	45	-3	SW	5	-	0	4	6	*	*								
Palermo ...	1001.4	35	SSW	4	h	1005.9	+1	43	-23	SW	5	-	h	5	6	*	*								





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

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

Moderate Northerly or North-Easterly winds, increasing a little in force, dull, some rain or snow showers; cold.

Fresh North-Easterly winds, strong on the east coast coast; dull, some rain or snow showers; cold.

Same as Nos. 0 and 1.

Fresh or strong North-Easterly winds; cloudy, some rain or snow showers, cold.

Same as Nos. 0 and 1.

Moderate North-Easterly winds, becoming fresh; dull, some rain or snow showers; cold.

Strong or high Easterly or North-Easterly winds, and rough sea; cloudy, some rain or snow showers.

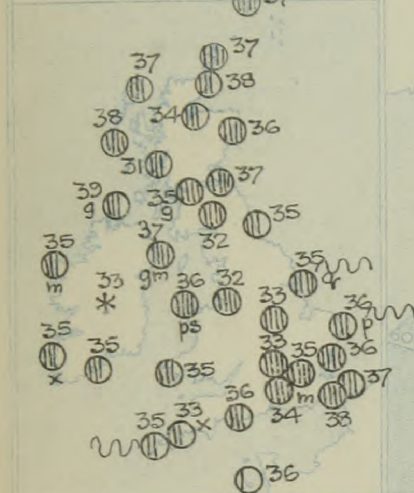
**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

The fall of pressure in the south will cause some increase of wind 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 & clouded. ○ sky & clouded. ○ sky & clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

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

Inches  
31

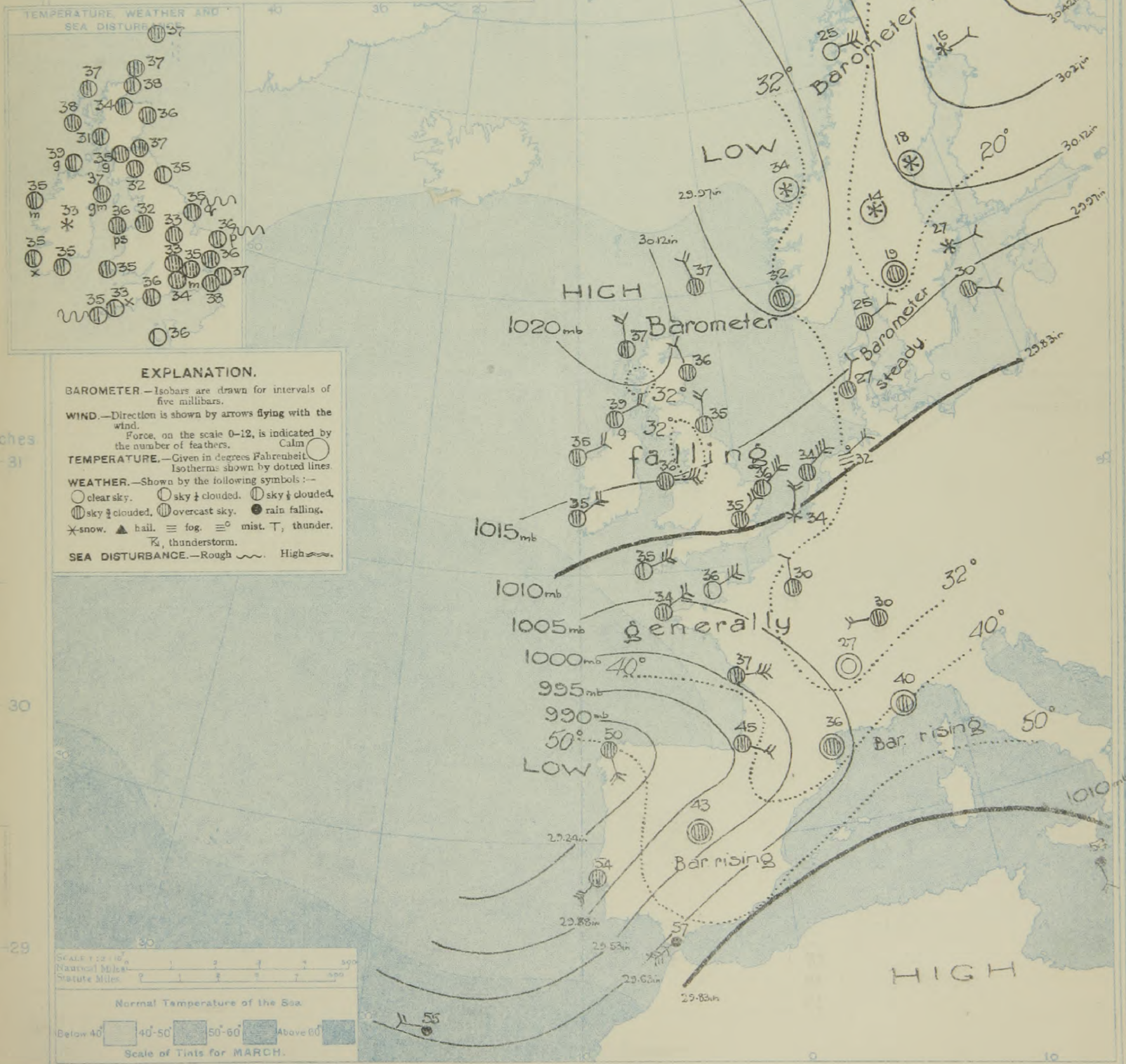
30

29

SCALE 1:100,000  
Nautical Miles 0 1 2 3 4 5 6 7 8 9 10  
Statute Miles 0 1 2 3 4 5 6 7 8 9 10

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°  
Scale of Tints for MARCH.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	9 P.M. LOCAL TIME.					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. ° F.	Change in 24 hours.	Direc.	Force 0-12.							
Archangel ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Uleaborg ...	1029.8	19	ESE	2	c	1027.1	-1	7	-7	ESE	2	*	c	*	-	*	*	
Helsingfors ...	1028.7	16	ENE	3	s	1024.8	-2	1	-15	ENE	2	*	s	*	?	*	*	
Hangö ...	1027.4	16	ESE	5	s	1023.6	-3	1	-18	ESE	2	*	s	*	0	2	*	
Riga ...	1024.6	25	SE	1	o	1021.5	-2	7	-16	ESE	2	*	o	*	0	-	*	
Petrograd ...	1031.1	16	ENE	3	o	1028.8	-2	14	+5	E	3	-	s	*	-	18	9	
Moscow ...	1031.4	14	E	3	o	1031.1	-1	10	-6	ESE	3	*	o	*	-	*	10	
Kiev ...	1022.7	30	NE	2	o	1022.0	0	27	0	ENE	2	*	o	*	-	*	23	
Kharkov ...	1023.4	30	NE	2	f	1023.1	+1	10	-20	NE	2	*	f	*	-	*	*	
Kishinev ...	1019.1	36	SSW	2	o	1020.4	-1	32	-4	E	3	*	o	*	-	*	32	
Elisabetgrad ...	1021.6	32	ENE	3	s	1020.4	-1	32	0	E	3	*	o	*	-	*	32	
Nicolaiev ...	1019.9	36	ENE	4	o	1019.1	*	32	-5	ENE	3	*	o	*	-	*	30	
Odessa ...	1018.7	36	ESE	4	o	1018.1	-2	34	-3	ESE	3	*	o	*	5	*	34	

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.							England.						
Oban ...	...	39	30	o. br	b.	1.1	Lowestoft ...	...	40	33	bc. c. op	o. c	2.0
Banff ...	...	42	31	bc	bc	7.4	Felixstowe ...	...	41	31	bc	bc. op	4.2
St. Andrews ...	...	...	...	...	...	...	Walton-on-Naze ...	...	...	...	...	...	...
England, N.E.							Southend-on-Sea ...	...	41	31	by	bc. c. o	3.4
Harrogate ...	...	35	31	asp	o	0.0	England, S.E.						
Skegness ...	...	28	32	sp	op. on	1.5	Margate ...	...	40	33	o	o	0.0
England, N.W.							Ramsgate ...	...	39	37	c	o	0.0
Morecambe ...	...	...	...	...	...	...	Hastings ...	...	41	30	o. c	bc. o	1.8
Blackpool ...	...	...	...	...	...	...	Eastbourne ...	...	43	28	b	on	5.5
Southport ...	...	...	...	...	...	...	Seaford ...	...	43	28	bc	c. o	6.0
Midlands							Brighton ...	...	43	28	bc	c. o	5.9
Buxton ...	...	33	30	cs	cs	0.5	Worthing ...	...	43	31	b	bc	6.4
Leamington Spa ...	...	41	29	o. bc	bc. op. d	3.1	Littlehampton ...	...	41	27	b	bc	6.9
Malvern ...	...	40	30	o. c	c. o	2.0	Bognor ...	...	44	31	bc	bc	7.3
Ross-on-Wye ...	...	42	30	c. bc	bc. j	3.6	Southsea ...	...	...	...	...	...	...
Wales.							Bournemouth ...	...	44	30	b	b	7.5
Rhyl ...	...	40	33	bc	o	0.0	England, S.W.						
Colwyn Bay ...	...	38	34	c	bc. o	0.2	Weymouth ...	...	43	31	g. b	b. bc	9.0
Llandudno ...	...	39	35	cg	g. c	1.0	Torquay ...	...	43	33	o. c. bc	bc	6.8
Aberystwyth ...	...	41	34	o. c. b	bc. c	6.5	Paignton ...	...	42	24	bc. l. bc	bc. c	?
Tenby ...	...	43	35	b	bc	8.4	Penzance ...	...	44	34	os	bc. b	3.6
							Newquay ...	...	43	32	b	b	7.6
							Ilfracombe ...	...	45	35	b	b. bc	9.0
							Weston-super-Mare ...	...	44	28	bc. b	b	6.6

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	64	82	3.2	41	34	26	—	c	c. o	o
City (Bunhill Row) ...	...	...	3.3	...	...	...	...	...	...	...
Westminster (St. James's Pk.)	70	84	1.9	42	35	32	—	om	o	...
Camden Sq. (Brit. Rainfall)	65	82	2.3	44	33	30	—	bc. c	c. o	...
Hampstead (Reservoir) ...	...	81	4.8	39	31	28	—	ac	ac	...
Richmond Park	...	...	...	...	...	...	...	...	...	...
Kew. (See front page.)	...	...	1.3	...	...	...	...	...	...	...
* VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)				608 Joules		14.9 Milliwatts.		35 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	3	° F. 43	° F. 35	° F. 32	c. o. r. s	phs. c	c. b.	*
Darwen to 9 p.m.	1	36	31	31	ous	s. c. b	bc. m	1.0
Manchester "	0.2	39	24	*	sp. m	o. c. o	o. c. bc	0.4
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9,,								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	0.1	42	32	17	bm. bc. m	bc. m. c	c. o. y	*

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

10th & 11th March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.32	12.4	5.48
Greenwich ...	6.30	12.5	5.47
Wick ...	6.27	12.11	5.83
Valencia ...	6.24	12.22	6.11
	7.11	12.52	6.34
	7.8	12.51	6.35

## NOTES ON YESTERDAY'S WEATHER.

Little precipitation was measured, but the sky was very variable. Sunshine ranged from 9.6 hours at Jersey to none in several localities. Temperature remained below 45° during the day.

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. and at the bookstalls at certain Railway Termini in London.



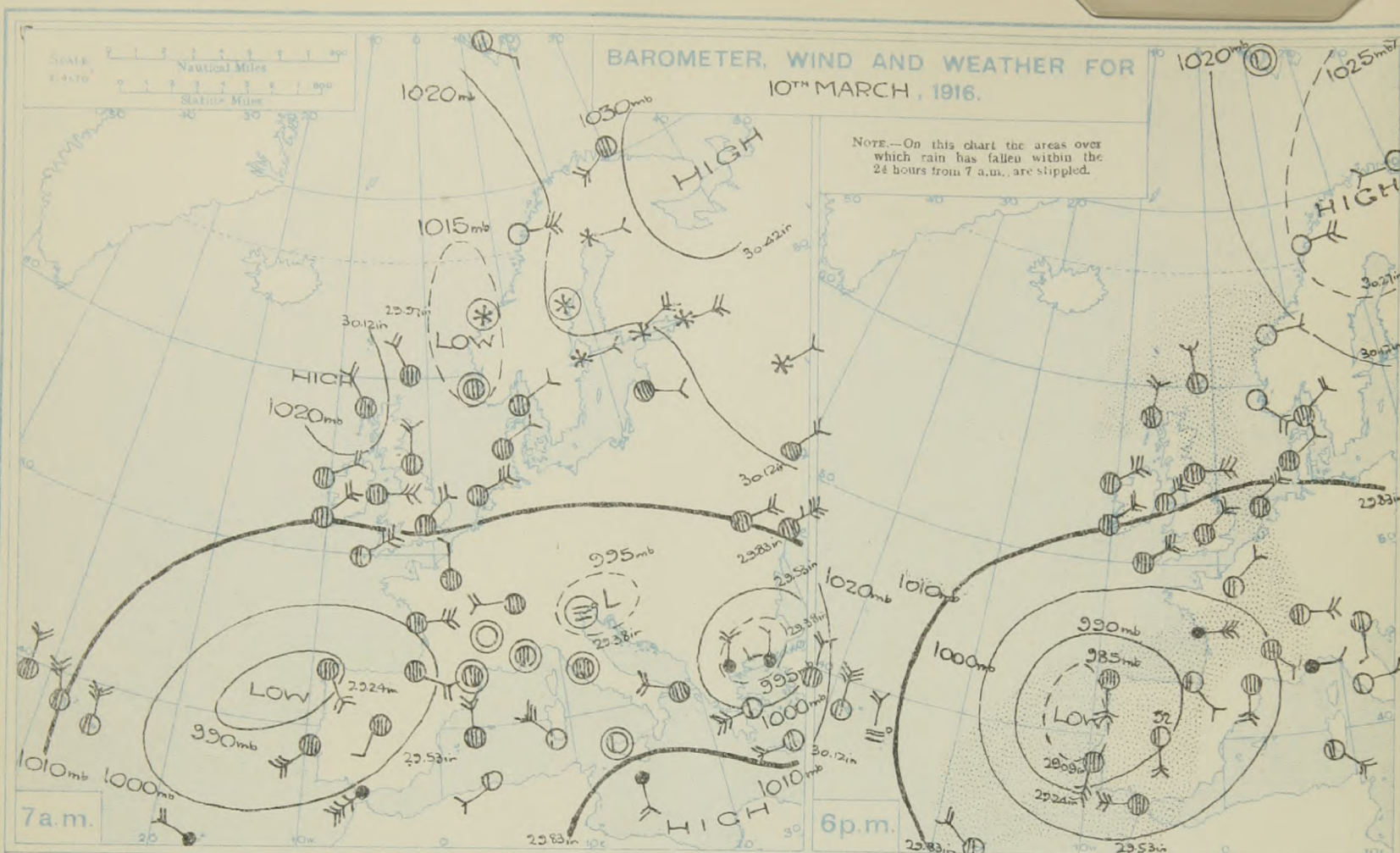
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 71

Saturday

11<sup>th</sup> March

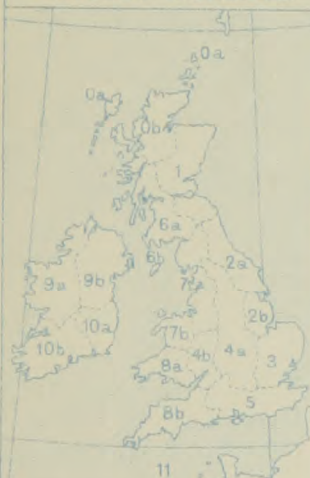
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.		
	Barom. Milli- bars at M.S.L.	Temp. °F.	Wind.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-10.	Rain- fall. Milli- metres.	Temp.		Weather.					
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	10110	35	N	2	bc	10137	+1	35	-2	SSE	5	-	om	4	2	39	32	ops	bc	cm sp	Hours.	
	Deerness (Orkney) ...	10112	33	WNW	3	bc	10108	-	34	-3	ESE	3	-	ops	2	1	40	32	o	o.c.bc	bc ops	0.1	
	Stornoway ...	10128	40	NNE	3	cp	10079	+1	32	-5	E	3	-	b	3	2	44	28	c.o	o.c.p	cp sp	4.1	
	Castlebay (Barra Is.) ...	10136	40	NW	4	op	10054	-1	37	-1	ESE	4	-	op	5	3	44	34	o bc	bc op	bc sp	1.0	
	Glasgow ...	10130	36	N	1	c	10074	-2	32	-3	ENE	2	-	omg	4	40	31	o	o	o	o.c.m	0.0	
	Eskdalemuir ...	10126	33	NNE	3	o	10068	-1	29	-3	NE	3	E	c	4	03	37	29	o	o	o	0.0	
	Malin Head ...	10140	38	NE	2	c	10053	-3	33	-6	SSE	2	S	cg	2	-	40	32	cg	bc	cg	0.6	
	Blacksod Point ...	10137	39	ENE	5	cv	10037	-5	35	0	ENE	2	E	bc	2	-	41	32	cg	bc o	cz bc	-	
	Valencia ...	10102	37	NE	4	c	10036	-3	35	0	NE	2	NE	o	2	-	40	34	c	bc c	o.c.c	2.3	
	Roche's Point ...	10106	37	N	2	o	10041	-	32	-3	NE	1	NE	bc	2	0.4	39	32	s.op	s.op	cz bc	-	
	Birr Castle ...	10118	37	ENE	1	c	10048	-	32	-1	NE	1	-	s	3	39	32	sc sp	cp h	os	4.4		
	Donaghadee ...	10137	39	ENE	4	qym	10051	-3	36	-1	ESE	4	-	qym	3	-	40	36	qym	qym	qym	-	
	Liverpool (Bidston) ...	10100	37	NE	3	o	10045	-2	32	0	NE	2	E	o	2	-	39	31	om	ops	dm o	0.1	
	Holyhead ...	10097	39	ENE	5	cm	10037	-2	35	-1	E	5	E	o	4	-	41	34	op sp	bc cm	cd bc	4.3	
	Penbroke (St. Ann's) ...	10078	38	ENE	4	c	9996	-2	33	-2	NE	4	-	o	3	-	40	32	c	c	bc c	3.1	
	Scilly (St. Mary's) ...	10028	39	ENE	5	og	9968	-4	37	-2	ENE	4	NE	og	5	-	42	36	og	og	cg og	1.2	
	Falmouth ...	10034	38	NE	5	bc sp	9973	-2	34	+1	NE	4	-	o	4	-	39	32	bc c	o.c.c	bc o	0.2	
	Jersey (St. Aubin) ...	10004	39	ENE	5	og	9938	-	37	+1	ENE	4	-	o	3	-	42	35	bc c	o og	og o	1.8	
	Portland Bill ...	10042	37	NE	5	omc	9973	-4	35	-1	NE	5	NE	o	4	0.1	40	34	c.o	o	op	-	
	Dungeness ...	10024	37	ENE	5	h	9966	-3	38	0	E	4	-	o	4	0.4	39	36	op o	c.o	o.c.o	-	
	Dover ...	10050	35	NE	4	s	9975	-3	37	0	ENE	5	NE	o	4	0.3	37	35	o	op sp	od	0.0	
NORTHERN EUROPE.	Wick ...	10112	37	NW	1	c	10104	+2	35	-3	SSE	3	-	h	3	3	43	25	c.m	om om	om sp	-	
	Nairn ...	10122	38	-	0	og	10089	-	29	-5	-	0	-	bc x	1	1	41	25	cg	og	sp c	0.0	
	Aberdeen ...	10120	37	WNW	2	o	10105	+1	35	-1	SE	4	-	c	2	2	41	33	b	o.c	o sp c	0.0	
	Leith ...	10122	38	NE	1	c	10078	-2	33	-4	ESE	1	E	c	3	0.3	40	33	o.c.o	o	o sp c	-	
	Tynemouth ...	10113	38	NE	2	c	10072	-3	35	0	E	4	-	og p	4	1	42	24	cm	cp	og p	-	
	Spurn Head ...	10091	36	ESE	5	o	10041	-1	34	-1	E	6	-	og ps	5	1	39	32	bc o	c.og	cg	0.6	
	Farmouth ...	10074	36	E	5	os	10007	-5	36	0	ESE	6	-	o	6	1	36	35	cp	ops	ops h	0.0	
	Clacton-on-Sea ...	10064	36	NNE	4	o	9989	-2	38	+2	NE	4	-	o	3	3	38	33	og ps	og p	og p	0.0	
	Nottingham ...	10091	36	ENE	4	o	10024	-	33	0	ENE	4	NE	s	1	39	31	o bc	o	c.o	1.4		
	Benson (Oxon.) ...	10066	35	NE	4	o	9987	-3	33	0	NE	4	-	s	1	36	32	o	o	o sp	-		
	St. Farnborough ...	10056	34	NE	4	s	9978	-3	34	0	NE	3	-	od	2	36	33	o	os	o	0.0		
	London (Kew Obs.) ...	10062	35	NE	4	o	9984	-3	35	0	NE	3	-	om	2	37	33	om os	os om	os h	0.0		
	FRANCE, &c.	Spitsbergen ...	10227	16	-	0	b	10159	-3	14	-7	NW	1	-	s	3	-	27	1	-	-	-	-
		Vardö ...	10295	16	W	2	b	10296	0	19	0	SW	6	-	o	4	-	19	16	-	-	-	-
		Bodö ...	10271	21	E	4	b	10280	0	19	-6	E	4	-	b	2	-	27	12	-	-	-	-
Christiansund ...		10183	32	E	2	b	10210	0	18	-6	E	3	-	b	3	3	37	28	-	-	-	-	
Skudesnaes ...		10141	32	SE	4	b	10172	0	28	-4	E	4	-	b	2	-	36	27	-	-	-	-	
Færder (X. Island) (ord) ...		10186	27	NE	4	o	10210	+1	21	0	NNE	6	-	o	2	-	27	19	-	-	-	-	
The Scaw (Skagen) ...		10159	28	NE	3	o	10164	0	25	0	E	5	-	o	5	-	28	25	-	-	-	-	
Blaavands Huk ...		10130	28	NE	2	o	10106	-1	30	+3	ENE	3	-	o	3	-	30	25	-	-	-	-	
Haparanda ...																							
Herrösand ...																							
SOUTHERN EUROPE.	Stockholm ...																						
	Wisby ...																						
	Karlstad ...																						
	The Helder ...	10024	34	NE	5	o	10026	-2	34	0	ENE	5	-	s	3	Trace	36	34	-	-	-	-	
	C. Gris Nez ...	10037	35	E	5	o	9977	-3	34	-3	E	3	-	o	2	-	37	34	-	-	-	-	
	La Hève ...	10016	35	ENE	3	m	9941	-	32	0	NE	3	-	m	2	-	37	32	-	-	-	-	
	Brest (St. Mathieu) ...	9987	39	ENE	5	o	9935	-1	36	+2	ENE	5	-	m	3	-	43	34	-	-	-	-	
	Rochefort (St. d. Ais) ...	9936	39	E	6	c	9887	-2	40	+3	E	5	-	c	4	-	50	36	-	-	-	-	
	Biarritz ...	9915	37	SE	2	bc	9867	-1	53	+8	SSE	2	-	c	0	2	63	45	-	-	-	-	
	Paris ...	10015	32	NE	2	c	9940	-2	32	-2	NE	2	-	s	4	-	37	30	-	-	-	-	
ITALY.	Belfort ...	10033	36	E	4	c	9980	-	32	+2	E	3	-	h	4	-	42	30	-	-	-	-	
	Lyon ...	9993	42	SE	2	o	9951	-	38	+11	-	0	-	o	4	19	45	27	-	-	-	-	
	Nice ...	10037	43	E	1	h	9972	-3	47	+7	E	1	-	h	4	26	46	37	-	-	-	-	
	Perpignan ...	9936	54	S	4	o	9893	-2	43	+7	-	0	-	o	4	-	57	36	-	-	-	-	
	Sanguinaire ...																						
	Corunna (7 a.m.) ...	9851	55	S	4	o	9834	+5	50	0	ENE	4	E	c	2	2	55	50	-	-	-	-	
	Madrid (8 a.m.) ...	9906	52	S	4	bc	9917	+1	43	0	S	3	-	o	2	54	41	-	-	-	-		
	Lisbon (7 a.m.) ...																						
	Gibraltar ...	9956	56	W	6	o	9946	-	51	-6	SW	6	-	cz	3	36	59	49	-	-	-	-	
	Malta (8 a.m.) ...						10091	+1	61	+7	S	2	-	b	1	-	63	54	-	-	-	-	
YESTERDAY'S REPORTS	Azores (Horta, 8 a.m.) ...	10160	*	N	6	bc																	
	Madeira (Funchal) ...	10031	57	WNW	3	bc	10043	0	52	-3	NW	6	-	h	4	2	63	52	-	-	-	-	
	Venice ...	10010	45	NW	2	o	10047	+2	45	0	-	0	-	m	3	-	*	*					





### 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 | } | Moderate winds between East and South-East, freshening somewhat; dull, some rain or snow; cold. |
| 1  | b |   |   |
| 2  | a | } | Fresh Easterly winds, strong on east coast; dull, some rain or snow, rather misty; cold.        |
| 3  | b |   |   |
| 4  | a | } | Same as Nos. 0 and 1.   |
| 5  | b |   |   |
| 6  | a | } | Fresh winds between East and North-East; dull, some rain or snow; cold.                         |
| 7  | b |   |   |
| 8  | a | } | Moderate Easterly winds; dull, some rain or snow; cold.   |
| 9  | b |   |   |
| 10 | a | } | Fresh winds between East and North-East; rather rough sea; dull, misty, some rain.              |
| 11 | b |   |   |

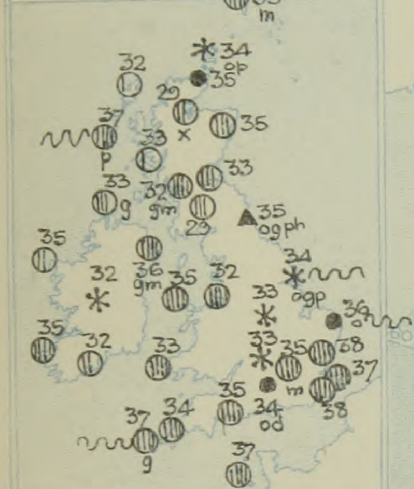
#### FURTHER OUTLOOK.



GENERAL INFERENCE.

The depression over north-west Spain is spreading northward, and some increase in the gradient for Easterly winds is to be expected over the British Isles.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



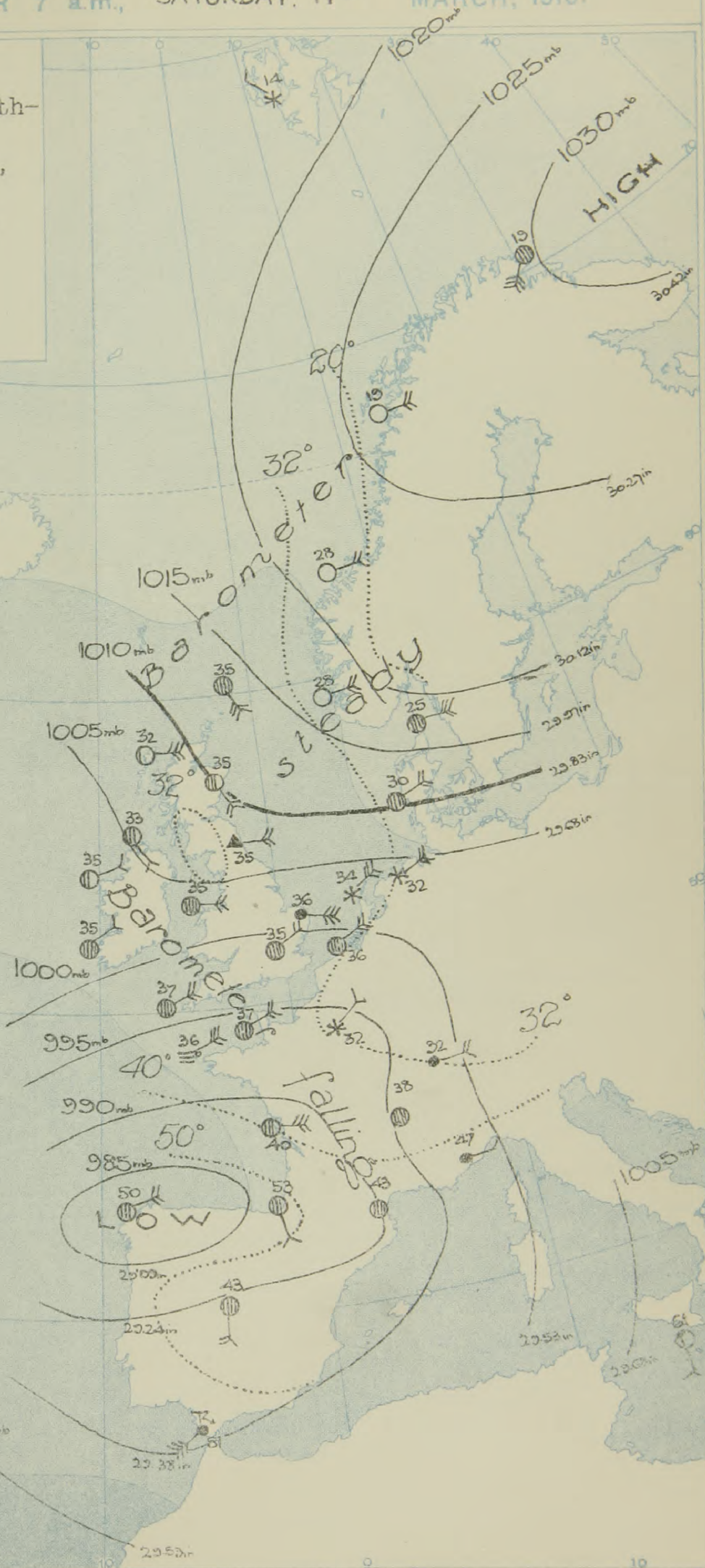
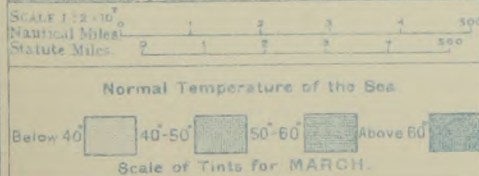
EXPLANATION.

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

Inches.  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	..9th.. AT 9 P.M. LOCAL TIME.					...10th.. 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.		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 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Uleaborg ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Nelsingfors ...	1025.3	18	SE	3	C	1025.6	0	18	+11	ESE	3	*	0	*	*	*			
Hangö ...	1021.2	21	E	2	S	1019.1	-1	19	+18	ESE	3	*	S	0	?	*			
Riga ...	1019.8	23	-	0	0	1017.6	+1	21	+20	ESE	3	*	S	0	?	*			
Petrograd ...	1016.8	27	ESE	1	0	1014.6	-1	25	+18	ESE	2	*	0	0	10	*			
Moscow ...	1025.6	21	SE	3	0	1023.3	-1	16	+2	E	4	S	3	*	1	21			
Kiev ...	1029.7	14	E	2	S	1028.2	-1	10	0	E	2	*	S	*	-	*			
Kharkov ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kishinev ...	1023.4	27	E	2	0	1021.9	0	19	+9	E	3	*	0	*	-	*			
Elisabetgrad ...	1012.8	34	E	4	0	1009.9	-1	34	+2	E	4	*	0	*	-	32			
Nicolaiev ...	1017.2	34	E	3	f	1014.6	0	32	0	ESE	4	*	0	*	-	32			
Odessa ...	1013.5	37	ENE	3	0	1011.1	*	32	0	ENE	7	*	0	0	-	32			
	1012.7	36	E	4	0	1008.7	-2	34	0	E	5	*	0	0	-	26			

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.	WEATHER.	Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.						
		° F.	° F.								
Scotland.							England, E.				
Oban ...	...	42	27	bc	0	0.0	Lowestoft ...	1	37	35	0.0
Banff ...	0.3	41	36	c.bc	bc, bc	0.0	Felixstowe ...	2	36	33	0.0
St. Andrews ...	...	41	31	*	*	0.8	Walton-on-Naze ...	3	37	33	0.0
England, N.W.							Southend-on-Sea ...	...	...	...	...
Harrogate ...	1	38	30	0.3p	0.0	0.4	England, S.E.				
Skegness ...	1	39	32	0.3p	0.0	4.0	Margate ...	...	39	36	0.0
England, N.W.							Ramsgate ...	0.4	37	34	0.0
Morecambe ...	...	38	32	bc, c	c	1.2	Hastings ...	0.4	38	33	0.3
Blackpool ...	...	...	...	...	...	...	Eastbourne ...	...	39	33	0.0
Southport ...	...	43	31	0.0p, 0	0.0	1.2	Seaford ...	...	44	33	0.7
England, S.E.							Brighton ...	...	38	35	0.0
Buxton ...	1	34	28	c	c	0.0	Worthing ...	...	...	...	...
Leamington Spa ...	1	39	31	0.0	0.0	0.4	Littichampton ...	...	...	...	...
Malvern ...	0.3	37	31	0	0	0.0	Bognor ...	...	...	...	...
Ross-on-Wye ...	0.2	37	31	0	0	0.0	Southsea ...	...	...	...	...
England, S.W.							Bournemouth ...	...	38	31	0.0
Wales.							Weymouth ...	...	38	32	0.0
Rhyl ...	0.3	38	33	...	...	0.2	Torquay ...	...	41	35	0.4
Colwyn Bay ...	...	37	34	bc	c	0.4	Paignton ...	...	40	...	0.7
Llandudno ...	0.1	39	34	c	c	1.0	Penzance ...	...	41	31	0.6
Aberystwyth ...	...	40	34	0.0	0.0	3.0	Newquay ...	...	41	31	0.6
Tenby ...	?	40	35	bc	bc, c, 0	4.5	Ilfracombe ...	...	39	34	0.0
							Weston-super-Mare ...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 89	% 94	Hr. 0 0	° F. 36	° F. 33	° F. 31	mm. § 3	wd.	wd+bs	wd+bs
City (Bunhill Row) ...	% 87	% 96	0 0	% 36	% 34	% 32	% 2	% 0.5	% 0	% 0.1
Westminster (St. James's Pk.)	% 87	% 96	0 0	% 36	% 34	% 32	% 2	% 0.5	% 0	% 0.1
Camden Sq. (Brit. Rainfall)	% 82	% 96	0 0	% 38	% 33	% 31	% 3	% 0	% 0	% %
Hampstead (Reservoir) ...	% 82	% 97	0 0	% 34	% 30	% 27	% 2	% 0.25	% 0.5	% 0.5
Richmond Park ...	% 82	% 97	0 0	% 34	% 30	% 27	% 2	% 0.25	% 0.5	% 0.5
Kew. (See front page.)	% 82	% 97	0 0	% 34	% 30	% 27	% 2	% 0.25	% 0.5	% 0.5
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 253 Joules		Average Rate. 6.2 Milliwatts.		Max. Rate. 17 Milliwatts.		
S. Kensington (Roof of M.O.)				84		93		0 0		

## Additional Observations for Yesterday.

STATIONS.	RAIN FALL.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
		Max.	Min.			
Dublin to 4 p.m.	mm. §	° F.	° F.	° F.		Hr.
Darwen to 9 p.m.	1	39	34	32	0.0	...
Manchester "	0.3	37	30	29	bc, u.	0.2
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...
Teignmouth to 9 "	...	40	34	30	0.0	1.6
Plymouth "	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	Trace	38	34	29	bc, c, 0	0.0

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

11 <sup>th</sup> March, 1916.	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.10	G.M.T. 12.3	G.M.T. 5.47
Greenwich ...	6.16	12.10	5.52
Wick ...	6.44	12.23	6.1
Valencia ...	7.5	12.31	6.37

## NOTES ON YESTERDAY'S WEATHER.

Snow showers occurred over most of the country, and little sunshine was measured. The diurnal range of temperature was 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. 72

Sunday  
12th March

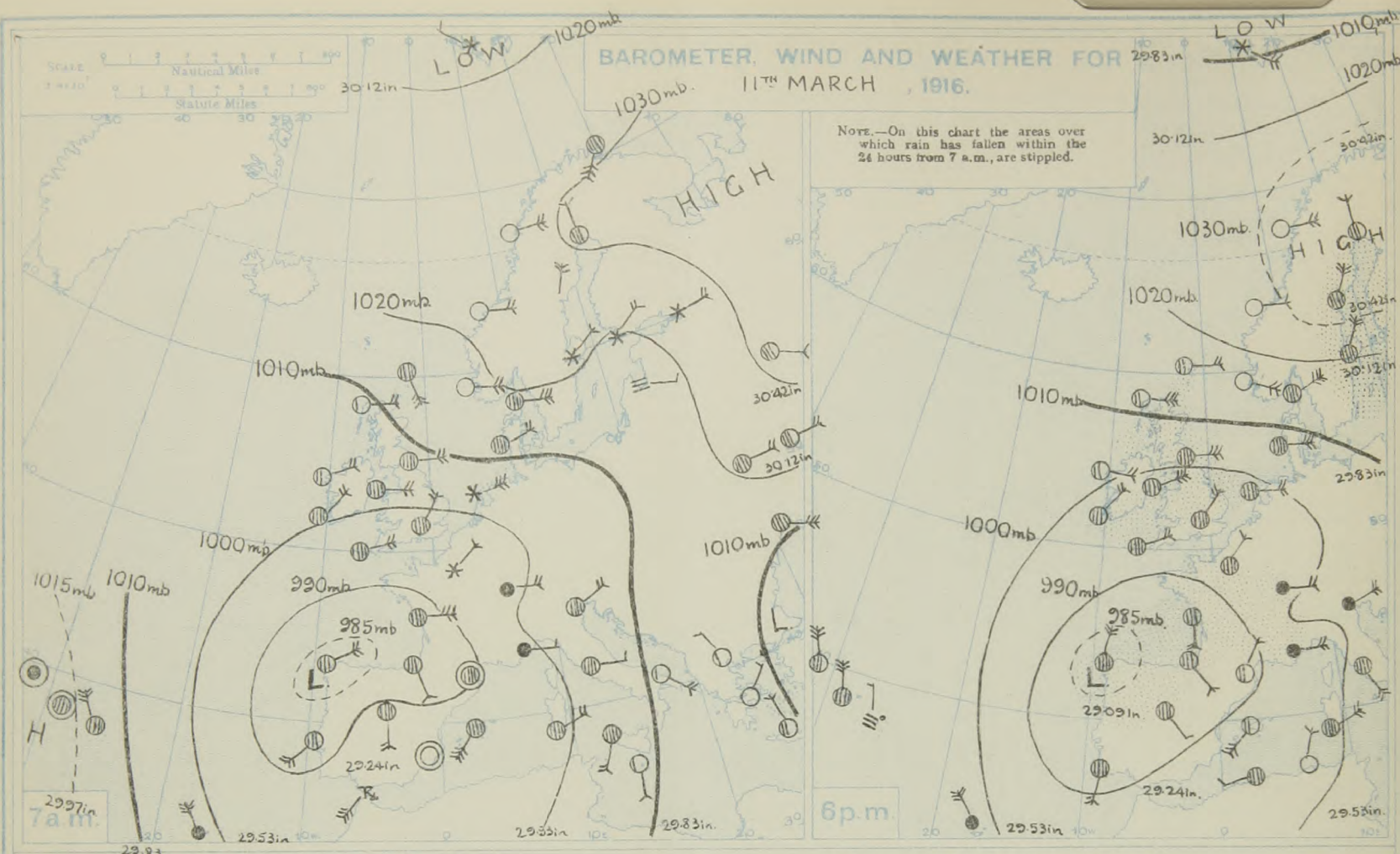
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Direc.	Force 0-12.	Max.	Min.	Morning.	Afternoon.		Night.
BRITISH ISLANDS.	Lerwick ...	1018.4	36	E	3	bc	1016.8	+	34	-1	E	2	-	0	2	38	31	bc.sp	bc	asp	Hours.	
	Deerness (Orkney) ...	1014.9	35	E	5	bc	1014.5	+	35	+1	E	4	-	0	4	38	34	ops.c	c.bc	bc.c.o	2.4	
	Stornoway ...	1011.8	36	E	6	bcq	1012.8	+	35	+3	E	5	-	0	5	40	31	bc.c	c.bcq	cg	4.8	
	Castlebay (Barra Isd.) ...	1008.1	38	E	4	0	1009.5	+	35	-2	NE	4	-	0	5	40	34	op	obp.g	osp	2.2	
	Glasgow ...	1006.1	32	ENE	3	og	1005.5	0	32	0	ENE	5	-	0	4	36	30	c.ohsp	osp	osp.os	0.9	
	Eskdalemuir ...	1004.9	30	NE	5	os	1003.6	0	31	+2	NE	6	-	0	3	32	27	c.o.os	os	o.os	0.8	
	Malin Head ...	1003.4	37	E	7	cg	1003.0	0	36	+3	E	6	-	0	7	40	33	bc	bcq.ps	omg.p	2.5	
	Blackod Point ...	1000.8	34	ESE	3	bc	1000.2	-2	35	0	E	4	E	0	3	41	32	bc	bcps	cm	2.5	
	Valencia ...	997.8	38	NE	3	c	995.4	0	36	+1	NE	4	-	0	3	41	34	ocg	c.og.c	c.o	4.1	
	Roche's Point ...	998.2	37	NE	3	0	996.4	+	37	+5	NE	2	-	0	3	39	32	bc.om	om	or.o	3.4	
	Birr Castle ...	999.3	35	NE	1	r	997.4	+	36	+4	NNE	2	-	0	1	36	32	cbs	cbs.hr	odr	3.4	
	Donaghadee ...	1002.4	36	ESE	5	cmq	1001.2	-1	37	+1	E	7	E	cmq	5	40	33	cg	cmq	c.omy	6.0	
	Liverpool (Bidston) ...	999.2	36	NE	4	0	997.1	0	36	+4	NE	3	E	0	3	37	32	ops	om	o	0.5	
	Holyhead ...	998.6	37	ENE	6	om	996.5	0	38	+3	E	5	-	0	4	38	34	c.c.ops	ops.om	opdm	0.5	
	Pembroke (St. Ann's) ...	996.1	36	NE	3	cp	993.9	-1	36	+3	ENE	3	E	c	2	37	32	o	of	c	0.0	
	Scilly (St. Mary's) ...	992.4	39	ENE	3	0	990.6	-1	39	+2	ENE	3	NE	cm	4	40	36	o	o	og.cm	0.0	
	Falmouth ...	992.5	38	NE	3	og	991.3	0	35	+1	NNE	1	-	0	3	39	33	o.c.o	o	o.bc.o	0.0	
	Jersey (St. Aubin) ...	990.4	42	ENE	4	og	989.0	+	41	+4	ENE	3	NE	cm	3	44	36	o	og	ogp.cm	0.1	
	Portland Bill ...	992.7	38	NE	5	0	991.3	-1	36	+1	NE	5	-	0	4	40	35	o.c	o.c	o.c	0.0	
	Dungeness ...	992.5	40	NE	3	r	992.2	0	40	+2	E	3	E	bc	3	41	37	o.c.o	o.c.or	o.c	0.0	
	Dover ...	993.9	38	NE	4	0	992.4	+1	40	+3	NE	2	-	bz	2	40	36	bc.o	o	p.o.cg	0.0	
NORTHERN EUROPE.	Wick ...	1073.6	37	ESE	4	0	1073.2	+1	36	+1	SE	4	-	0	5	38	32	o.cmps	cmps.o	qps.og	1.1	
	Nairn ...	1011.1	34	ENE	3	og	1010.4	+	34	+5	NE	4	-	0	3	37	28	c.ogp	bc.csp	qpk.c	0.5	
	Aberdeen ...	1010.4	36	E	6	0	1011.2	+1	33	-2	ENE	6	-	0	5	38	33	c.ogsp	ospq	ospq	0.5	
	Leith ...	1006.3	35	E	2	0	1005.8	0	34	+1	E	3	-	0	6	36	33	c.osp	osp.o	ors.qs	0.0	
	Tynemouth ...	1005.0	35	E	5	omq.p	1002.2	-1	37	+2	E	7	-	omqr	7	37	34	omph	omq.ps	cmq.r	0.0	
	Spurn Head ...	998.6	38	E	5	og.r	995.2	-1	37	+3	E	6	-	og.r	6	38	33	or	og.r	og.r	0.0	
	Yarmouth ...	995.8	37	ESE	6	r	996.4	+1	39	+3	SE	4	-	om	4	39	36	or	or	opm	0.0	
	Clacton-on-Sea ...	994.6	39	ENE	4	0	994.7	0	40	+2	ENE	2	-	0	2	40	36	ogr.og	oga	ogd.om	0.0	
	Nottingham ...	997.7	35	NE	4	r	995.7	+	37	+4	NE	3	NE	d	3	37	32	sr	rs	rs	0.0	
	Benson (Oxon.) ...	995.2	35	NNE	4	r	993.7	0	36	+3	NNE	2	-	0	1	36	33	sr.o	or	rm.o	0.0	
FRANCE, &c.	Sth Farnborough ...	993.9	35	NE	3	m	992.3	0	36	+2	NE	2	-	om	2	37	34	d.gmd	mg.o	m.cpm	0.0	
	London (Kew Obs.) ...	994.4	37	NE	3	0	993.9	+1	39	+4	ENE	2	-	om	3	39	35	omomgd	omgd.om	omd.om	0.0	
	Spitsbergen ...	1009.7	18	SE	4	S	1010.6	+1	23	+9	S	2	-	S	2	23	12					
	Vardö ...	1027.8	21	E	4	b	1027.5	0	18	-1	E	4	-	b	2	25	14					
	Bodö ...	1028.8	21	E	4	b	1027.5	0	18	-1	E	4	-	b	2	25	14					
	Christiansund ...	1021.7	30	E	2	b	1019.4	0	25	-3	E	3	-	b	3	34	25					
	Skudesnaes ...	1016.3	28	ESE	4	b	1015.9	0	27	-1	E	4	-	b	1	32	25					
	Færder (Xtaniafjord) ...	1019.9	23	S	2	S	1020.0	0	23	+2	NE	6	-	0	2	25	21					
	The Scaw (Skagen) ...	1016.0	25	ESE	6	0	1014.9	-1	23	-2	E	6	-	0	6	27	23					
	Blaavands Huk ...	1008.7	32	E	5	0	1008.2	0	30	0	E	4	-	0	4	34	28					
SOUTHERN EUROPE.	Haparanda ...	1031.7	12	N	1	c	1028.6	-2	14	+18	NE	2	SE	bc	4	16	-4					
	Hernösand ...	1027.3	18	NNE	4	0	1026.1	0	12	-2	NE	2	-	bc	4	19	7					
	Stockholm ...	1020.0	18	NNE	2	0	1018.0	0	19	-2	NNE	4	-	0	4	23	18					
	Wisby ...	1014.3	30	ENE	4	0	1013.0	0	36	+2	NE	2	-	0	2	32	27					
	Karlstad ...	1021.5	21	ENE	4	0	1021.0	0	19	0	NNE	4	-	S	4	23	16					
	The Helder ...	997.9	36	E	4	0	999.1	+2	36	+2	E	5	-	r	3	36	34					
	C. Gris Nez ...	992.6	38	E	3	0	993.2	0	37	+3	E	3	-	bc	2	39	34					
	La Hève ...	991.8	41	ESE	1	f	989.6	+	37	+5	ENE	4	-	m	7	41	32					
	Brest (St. Mathieu) ...	990.0	44	NE	4	m	988.2	+	41	+5	ENE	3	-	0	3	46	36					
	Rochefort (Méd.) ...	992.1	53	S	3	c	987.8	+1	48	+8	S	2	-	r	7	61	40					
ITALY.	Biarritz ...	985.0	59	SSE	2	c	986.9	0	52	-1	SW	1	-	0	10	63	48					
	Paris ...	991.0	41	NNE	2	0	992.6	+2	34	+2	ENE	2	-	b	1	45	32					
	Belfort ...	994.6	36	E	3	r	997.6	+	34	+2	E	2	-	f	7	37	32					
	Lyons ...	993.3	41	ESE	1	r	994.1	+	41	+3	SE	1	-	0	18	46	38					
	Nice ...	995.7	49	E	4	r	998.7	+1	47	0	-	0	-	0	39	52	43					
	Perpignan ...	987.9	54	NE	2	bc	989.1	0	52	+9	S	2	SW	c	4	64	41					
	Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
	Corunna (7 a.m.) ...	984.3	54	NNE	4	0	986.7	0	43	-7	S	1	-	0	2	59	41					
	Madrid (8 a.m.) ...	989.7	45	SE	1	0	991.4	+5	41	+2	S	1	-	0	9	48	37					
	YESTERDAY'S REPORTS	Lisbon (7 a.m.) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Gibraltar ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Malta (8 a.m.) ...		*	*	*	*	*	1003.3	0	63	+2	SSW	5	-	b	3	70	59					
Azores (Horta, 8 a.m.) ...		1002.6	*	NNW	5	0	1007.7	+2	52	-1	NNE	6	-	bc	4	26	61	50				
Madeira (Funchal) ...		1003.1	*	NW	5	r	998.4	-4	52	0	W	3	-	r	3	10	61	52				
Venice ...		1005.3	48	SSW	1	c	1005.4	0	47	+2	ENE	3	-	0	3	1	*	*				
Turin ...		?	43	0	?	?	1004.0	0	37	+1												

\* Information for these columns not usually received.

+ Received too late for insertion in Charts.

- The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON 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 Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Moderate or fresh Easterly winds; dull, some snow, cold.   |
|    | b |   |  |
| 1  | a | } | Fresh or strong Easterly winds; dull, some rain or snow; cold.                                       |
| 2  | b |   |  |
| 3  | a | } | Moderate Easterly winds, some freshening later; dull, some rain, with fairer intervals, misty; cold. |
| 4  | b |   |  |
| 5  | a | } | Fresh Easterly winds; dull, some rain and snow; cold.  |
|    | b |   |  |
| 6  | a | } | Same as No. 3.   |
| 7  | b |   |  |
| 8  | a | } | Same as Nos. 1 and 2.  |
| 9  | b |   |  |
| 10 | a | } | Moderate or fresh Easterly winds; dull, some rain or sleet; cold.                                    |
|    | b |   |  |
| 11 | a | } | Moderate Easterly winds and moderate sea; dull, misty, some rain.                                    |
|    | b |   |  |

Millibars  
1050

1040

1030

1020

1010

1000

990

980

970

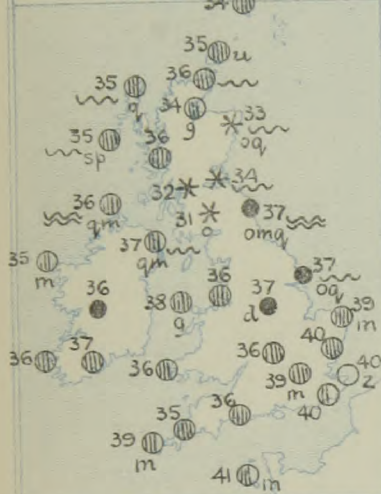


# SYNOPTIC CHART FOR 7 a.m., SUNDAY, 12<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE.

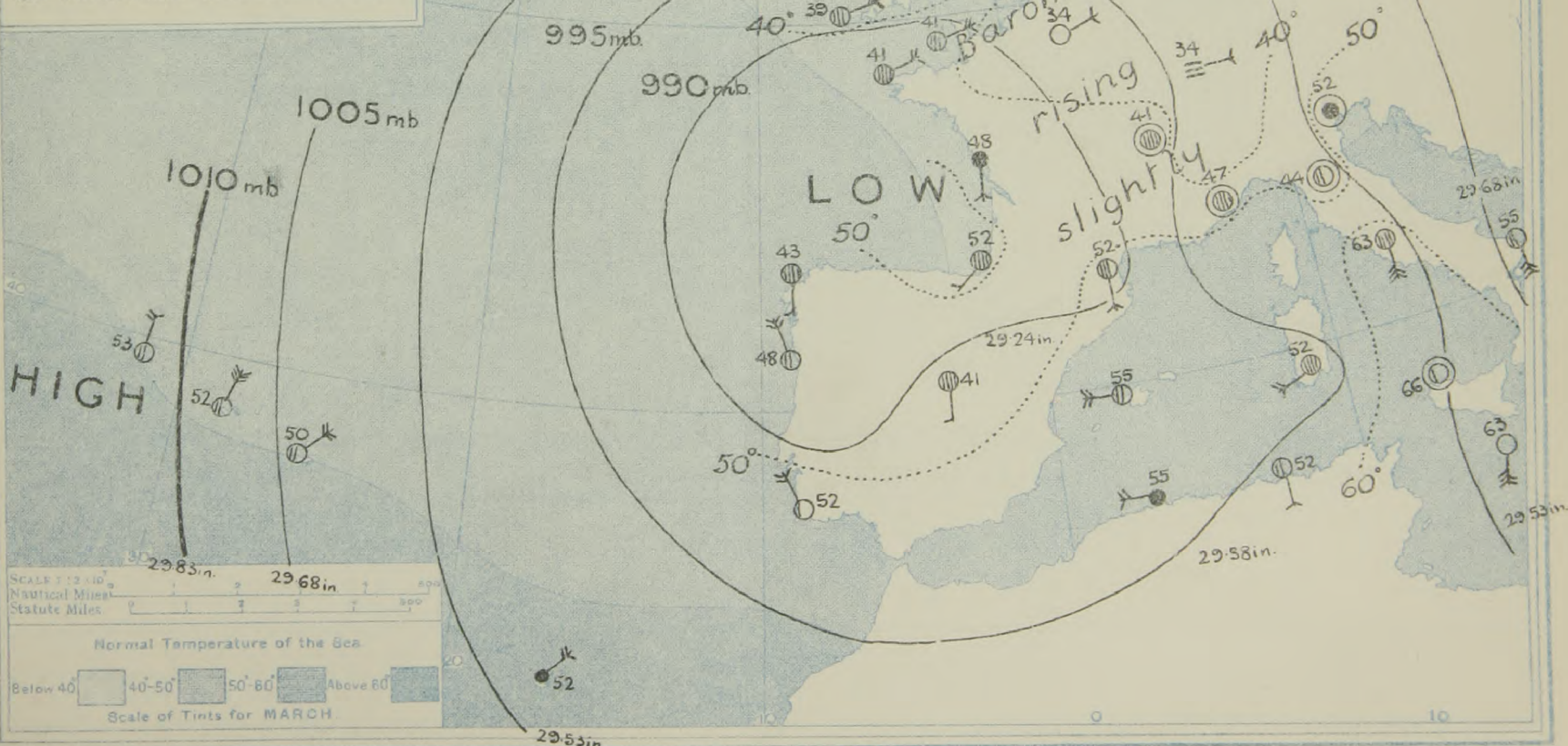
Conditions are likely to remain without much change.

### 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 overcast sky rain falling.  
 snow. hail. fog. mist. thunder.  
**SEA DISTURBANCE.**—Rough High .





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	NOON, AT 9 P.M. LOCAL TIME.					11 A.M. 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. °F.	Change in 24 hours. °F.	Direc.	Force 0-12.								
Archangel ...	...	19.																	
Uleaborg ...	1025.6	19	E	4	0	1030.0	+1	10	-8	E	2	*	0	*	0	...			
Helsingfors ...	1021.2	21	ENE	4	3	1021.6	+1	19	0	ENE	3	*	0	*	0	...			
Hangö ...	1019.6	21	ESE	2	0	1019.9	0	21	0	ENE	3	*	0	*	0	...			
Riga ...	1014.0	28	ESE	2	0	1015.8	+1	30	+5	ESE	1	*	0	*	0	...			
Petrograd ...	1023.8	32	E	3	6	1024.6	0	18	+2	E	3	*	0	*	0	...			
Moscow ...	1027.3	18	SSE	3	0	1031.9	+1	10	0	ESE	2	*	0	*	0	...			
Kiev ...	1018.4	28	ESE	3	0	1020.3	+1	25	-	E	3	*	0	*	0	...			
Kharkov ...	1023.8	19	E	3	0	1024.8	+1	12	-7	E	3	*	0	*	0	...			
Kishinev ...	1012.4	36	NE	4	0	1015.3	+2	32	-2	NE	4	*	0	*	0	...			
Elisabetgrad ...	1015.9	30	E	4	0	1018.3	+1	25	-7	NE	3	*	0	*	0	...			
Nicolaiev ...	1011.4	34	ENE	3	0	1013.9	*	30	-2	ENE	6	*	0	*	0	...			
Odessa ...	1010.1	34	ESE	5	0	1013.2	+3	32	-2	ESE	5	*	0	*	0	...			

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	—	38	30	bc	bc	0.7	England, E.	{ Lowestoft ... ..	—	—	—	—	—	
	{ Banff ... ..	8	36	28	eps	cs, cs	0.5		{ Felixstowe ... ..	2	39	33	op	op	0.0
	{ St. Andrews ... ..	—	—	—	*	*	—		{ Walton-on-Naze ... ..	13	38	35	or, o, c	or, c, or	0.0
									{ Southend-on-Sea ... ..	1	40	34	or, or	o	0.0
Eng., N.E.	{ Harrogate ... ..	1	33	30	c, o	os	0.0	England, S.E.	{ Margate ... ..	0.2	40	36	o	o	0.0
	{ Skegness ... ..	3	37	34	rog	p	0.0		{ Ramsgate ... ..	0.4	39	35	o	o	0.0
Eng., N.W.	{ Morecambe ... ..	—	—	—	—	—	{ Hastings ... ..		—	41	36	o	c, o	0.4	
	{ Blackpool ... ..	—	—	—	—	—	{ Eastbourne ... ..		—	41	36	bc, o	bc, o	0.5	
	{ Southport ... ..	—	—	—	—	—	{ Seaford ... ..		—	42	35	o	c	0.2	
							{ Brighton ... ..		—	—	—	—	—	—	
Midlands.	{ Buxton ... ..	2	32	28	cs	os	0.0		{ Worthing ... ..	1	41	35	o, c	c	0.0
	{ Leamington Spa ... ..	2	37	31	vars	vars	0.0		{ Littlehampton ... ..	0.2	40	36	o	o	0.1
	{ Malvern ... ..	—	—	—	—	—	{ Bognor ... ..		2	40	34	o	bc	0.0	
	{ Ross-on-Wye ... ..	3	37	30	os	c, or	0.0		{ Southsea ... ..	—	—	—	—	—	—
Wales.	{ Rhyl ... ..	—	—	—	—	—	England, S.W.	{ Bournemouth ... ..	—	39	34	o	o	0.0	
	{ Colwyn Bay ... ..	—	—	—	—	—		{ Weymouth ... ..	0.2	39	34	oe	o	0.0	
	{ Llandudno ... ..	0.4	37	32	—	—		{ Torquay ... ..	0.2	39	35	o	o	0.0	
	{ Aberystwyth ... ..	—	39	32	o, c	c, o		{ Paignton ... ..	—	40	34	o	o	0.0	
	{ Tenby ... ..	—	38	33	bc, c	o		{ Penzance ... ..	—	40	32	o	c	0.0	
								{ Newquay ... ..	*	—	—	—	—	—	
								{ Ilfracombe ... ..	—	—	—	—	—	—	
								{ Weston-super-Mare ... ..	—	—	—	—	—	—	

## LONDON OBSERVATIONS.

## Additional Observations for Yesterday.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.	
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.			In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.		
				Max.	Min.								Max.	Min.						
24 HOURS ENDED 9 A.M. TO-DAY.																				
	%	%	Hr.	° F.	° F.	° F.	mm. §					mm §	° F.	° F.	° F.				Hr.	
Greenwich (Royal Obs.) ...	87	95	0.0	40	36	35	1		or o	o	or o		1	39	35	33	eps	ps	ogr	*
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*	*									
Westminster (St. James's Pk.)	81	93	0.0	41	36	36	1	one	om	or o		0.2	37	32	*	bc os	o	ad	0.0	
Camden Sq. (Brit. Rainfall)	92	95	0.0	41	35	34	1	or	od o	*		2	35	29	29	s	os	os	0.0	
Hampstead (Reservoir) ...	*	94	0.0	36	31	28	1	cod	om	om		*	36	32	31	os	os o	ors r	*	
Richmond Park ...	*	*	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.																
Kew. (See front page.)	*	*	0.0	Total.			Average Rate.			Max. Rate.										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				93 Joules			2.3 Milliwatts.			7 Milliwatts.										
S. Kensington (Roof of M.O.)	92	92	0.0																	

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

12th & 13th March, 1916.				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. 7th			S. Farnboro'. 6th			S. Farnboro'. 6th			Aberdeen. 10th						
					G.M.T.		G.M.T.		G.M.T.		G.M.T.		G.M.T.		G.M.T.		G.M.T.		G.M.T.	
					12.15		12.3		12.3		12.3		12.3		12.3		12.3		12.3	
					6.16		12.3		12.3		12.3		12.3		12.3		12.3		12.3	
					6.24		12.10		12.10		12.10		12.10		12.10		12.10		12.10	
					6.22		12.10		12.10		12.10		12.10		12.10		12.10		12.10	
					6.44		12.22		12.22		12.22		12.22		12.22		12.22		12.22	
					6.38		12.22		12.22		12.22		12.22		12.22		12.22		12.22	
					7.5		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01		12.01		12.01		12.01	
					7.3		12.01		12.01		12.01		12.01							

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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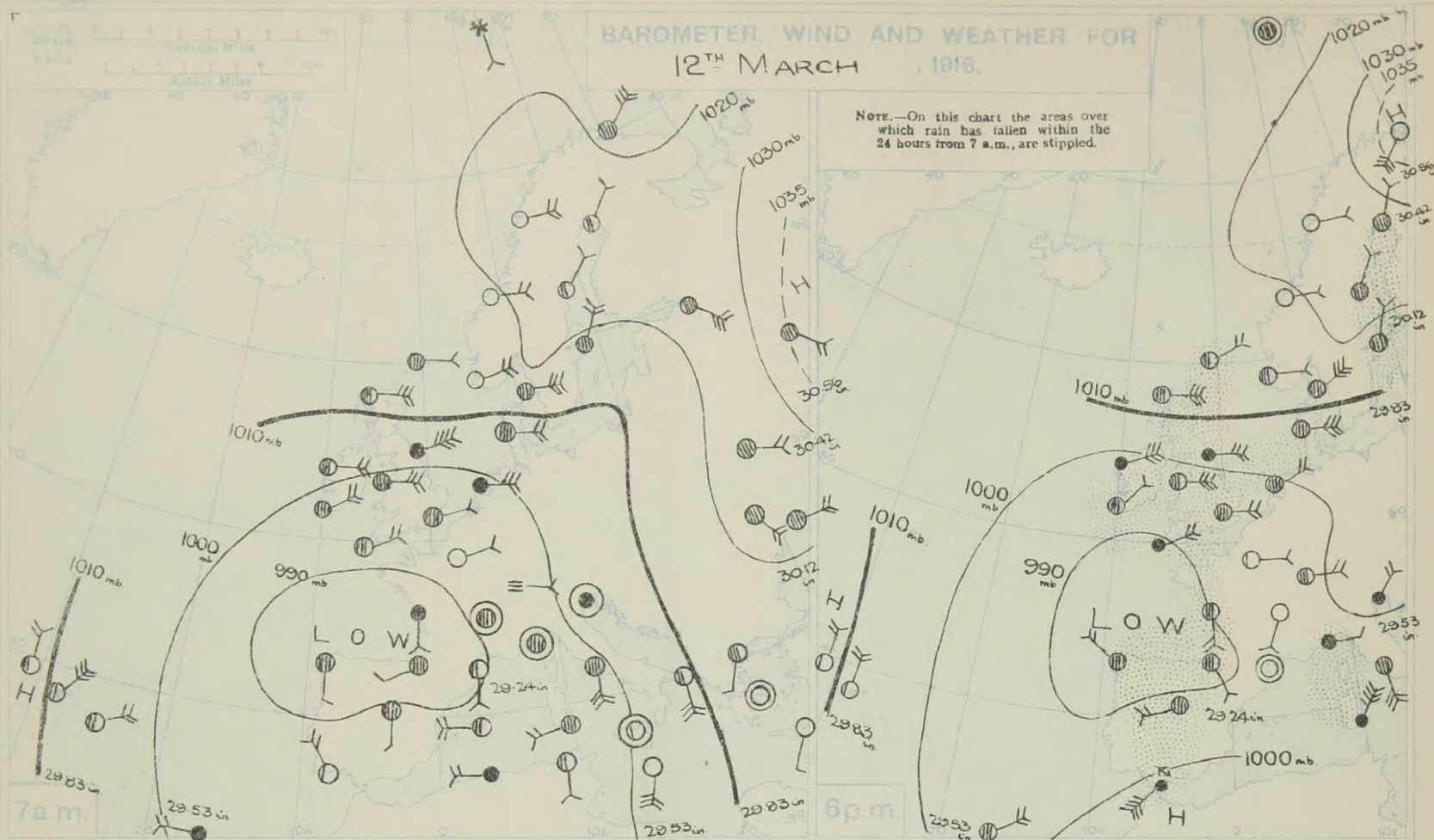
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 73.

Monday

13th March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 24 hours.	TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1016.7	36	ENE	3	bc	1015.9	+	35	+1	NE	2	-	o	2	37	32	o. bc	bc	o	Hours.	
	Deerness (Orkney) ...	1014.5	34	E	4	c	1013.9	*	35	0	ENE	4	-	o	3	37	34	oph. c	c	c. o	1.0	
	Stornoway ...	1013.1	36	E	6	cq	1011.9	-1	36	+1	E	5	-	cq	5	39	34	bcq	bc. cq	a. o. cq	3.2	
	Castlebay (Barra Isd.) ...	1008.6	38	NE	5	og	1008.4	0	38	+3	E	4	-	o	5	Trace	39	33	sp. c. o	esp. og	og. o	1.1
	Glasgow ...	1006.2	33	ENE	4	o	1007.8	+1	33	+1	ENE	2	-	og	4	35	31	os. esp	osp	osp	0.0	
	Esksdalemuir ...	1005.3	32	ENE	5	os	1006.9	0	32	+1	NE	5	-	o	4	35	30	os. o	os	os. o	0.2	
	Malin Head ...	1002.0	37	NE	7	cmg	1003.7	0	38	+2	E	6	E	cq	6	38	35	cmg	cmg	cq	0.0	
	Blacksod Point ...	999.4	37	ENE	6	cmg	999.7	0	37	+2	ENE	4	E	cmg	4	40	34	cm	cmg	cm. cmg	*	
	Valencia ...	994.9	40	NE	2	cq	994.4	+1	44	+8	ENE	4	-	og	3	44	36	og. o	o. og	og. or. o	0.1	
	Roche's Point ...	995.4	41	NE	2	o	996.9	*	42	+5	E	4	-	o	5	43	36	op. om	om	op. om	*	
	Birr Castle ...	990.9	39	NE	2	o	998.8	*	40	+4	NE	1	-	o	4	40	34	odg	o	od. og	0.0	
	Donaghadee ...	1000.7	39	E	7	ogm.	1004.1	+1	37	0	ESE	4	-	og	4	40	35	ogm.	ogm.	ogm.	*	
	Liverpool (Bidston) ...	998.6	37	ENE	4	r	1002.2	0	36	0	ENE	4	E	o	4	40	35	om	od. r	o	0.0	
	Holyhead ...	996.9	40	E	7	cmg	999.2	0	38	0	E	7	E	og	7	41	37	om	o. c. o. om	op. o. om	0.0	
	Pembroke (St. Ann's) ...	998.3	43	NE	3	om	997.2	+1	38	+2	E	4	E	c	4	40	36	op. d.	op. d.	cq	1.9	
	Scilly (St. Mary's) ...	989.4	45	ENE	4	omd	991.4	0	44	+5	ESE	6	E	omg	5	47	37	omd	omd.	omg	0.0	
	Falmouth ...	991.0	45	E	5	omg	994.0	+3	44	+6	E	3	-	o	4	46	35	om	om. omg	od. og. d	0.0	
	Jersey (St. Aubin) ...	990.4	50	E	3	og	993.3	*	44	+3	E	2	-	om	2	55	40	c. b. om	om. c. o	p. d. r. o	4.9	
	Portland Bill ...	992.4	45	ENE	5	bc	995.8	+1	41	+5	ENE	4	E	o	4	46	36	or. c	c. bc	bc. c. o	*	
	Dungeness ...	995.3	42	ENE	4	c	996.5	0	41	+1	E	6	-	m	5	48	40	bc. c	c. bc	bc. c. o	*	
	Dover ...	994.8	40	NE	5	o	997.8	0	40	0	NNE	5	-	m	4	49	39	z. b. o. b	b. o	om	0.9	
NORTHERN EUROPE.	Wick ...	1012.9	36	E	4	o	1012.6	+1	36	0	E	3	E	o	4	37	33	ogphs	ops	omg	*	
	Nairn ...	1011.8	33	E	3	s	1011.3	*	33	-1	E	1	-	c	2	35	32	ogp	sp. o	o. c. o	0.0	
	Aberdeen ...	1011.2	36	ENE	6	o	1011.4	+1	36	+3	E	5	-	o	5	36	33	os. ogp	osgp	osgp	0.0	
	Leith ...	1006.3	35	E	3	r	1007.4	+1	35	+1	E	2	-	r	5	37	33	srhp	srhp	r. ops	*	
	Tynemouth ...	1000.4	36	E	5	omg	1006.2	0	36	-1	E	4	-	omg	5	37	35	omg	omg	omg	*	
	Spurn Head ...	1000.1	39	ESE	6	o	1003.4	0	38	+1	E	5	-	og	5	39	36	og	og	og	0.0	
	Yarmouth ...	997.5	38	E	5	o	1001.3	0	39	0	E	5	-	om	4	39	38	om	om	om	0.0	
	Clacton-on-Sea ...	997.7	40	NE	4	o	999.9	+1	40	0	NE	4	-	o	4	44	38	og. b. om	bc. c. og	ogm	4.8	
	Nottingham ...	999.8	38	E	5	o	1002.3	*	37	0	ENE	4	NE	d	4	40	35	or	r. o	od	0.0	
	Benson (Oxon.) ...	996.1	45	ENE	3	o	999.4	+1	37	+1	ENE	3	-	o	4	50	36	m	b. om	o	*	
FRANCE, & C.	St. Farnborough ...	996.2	42	E	4	m	998.5	+1	37	+1	NE	3	-	om	4	53	36	nd. o	m. bc	omd	1.4	
	London (Kew Obs.) ...	997.2	41	E	4	o	999.4	+2	38	-1	ENE	5	-	om	4	50	38	omd. om	om. b. om. om. om	om. o. om	1.1	
	Spitsbergen ...	1014.3	9	-	0	o	1006.0	-4	10	-13	WNW	3	*	s	4	23	3	UPPER AIR.				
	Vardö ...	1038.1	18	SW	6	b	1024.0	-2	18	*	SW	6	-	o	3	18	10	South Farnborough.				
	Bodö ...	1025.6	19	E	2	b	1022.6	-1	19	+1	E	2	-	b	2	21	16	Pilot Balloon Ascent at ...				
	Christiansund ...	1019.0	30	E	2	b	1016.7	0	25	0	E	1	-	b	3	22	25					
	Skudesnaes ...	1014.1	34	E	2	c	1013.2	0	28	+1	NE	2	-	b	2	37	27					
	Fæder (Xantafjord) ...	1015.3	25	NE	6	o	1015.0	0	23	0	NE	6	-	o	2	25	21					
	The Scaw (Skagen) ...	1014.1	25	NE	6	o	1013.1	0	23	0	ENE	6	-	s	6	25	23					
	Blaavands Huk ...	1007.1	30	E	6	o	1006.9	-2	28	-2	ENE	5	-	o	3	Trace	32	25				
SOUTHERN EUROPE.	Haparanda ...	1025.5	18	NNE	2	a	1024.2	0	32	+18	NE	2	-	o	4	32	14	GALFS				
	Hernösand ...	1023.8	19	NE	2	o	1022.4	?	18	+6	N	2	-	s	4	21	10	Duration and Extreme Force				
	Stockholm ...	1019.5	18	NNE	2	o	1015.8	0	23	+4	N	2	-	s	4	?	18	in British Islands.				
	Wisby ...	1014.4	30	ESE	4	o	1011.5	0	32	+2	ENE	2	-	m	1	32	28	Holyhead				
	Karlstad ...	1020.0	21	NE	6	m	1017.1	-3	19	0	ENE	4	-	o	4	23	16	Bk. 10 m				
	The Helder ...	999.5	26	NE	4	o	1001.1	+1	37	+1	ENE	5	-	m	3	Trace	37	36	Aberdeen			
	C. Gris Nez ...	995.5	41	ENE	5	m	996.2	0	38	+1	NE	5	*	f	4	50	37	Squalls ENE. 8 m.p.h. occasionally				
	La Hève ...	988.2	43	ENE	3	bc	993.2	*	40	+3	ENE	3	*	f	2	50	37	during day.				
	Brest (St. Mathieu) ...	990.1	47	S	3	o	991.5	+1	45	+4	E	2	*	c	4	47	41					
	Rochefort (Ile d'Aix) ...	990.0	50	S	3	c	993.0	+4	48	0	SSW	4	*	o	3	59	45					
ITALY.	Biarritz ...	987.5	58	SE	2	c	994.9	+4	51	-1	S	2	*	bc	0	61	50					
	Paris ...	992.3	52	E	1	b	995.6	+3	37	+3	SSE	2	S	b	4	54	34					
	Belfort ...	996.4	48	E	3	c	999.4	*	43	+9	-	0	*	r	4	54	34					
	Lyons ...	993.7	54	SSW	2	b	999.0	*	43	+2	-	0	*	c	4	60	41					
	Nice ...	996.8	45	E	1	r	999.8	+2	47	0	-	0	*	bc	4	57	41					
	Perpignan ...	990.7	55	-	0	b	995.7	+4	43	-9	E	1	-	o	4	66	36					
	Sanguinaire ...	*	56	E	2	c	*	*	36	*	W	2	*	m	3	67	50					
	Corunna (7 a.m.) ...	988.6	50	NW	3	o	993.0	+2	45	+2	SW	5	-	c	2	52	42					
	Madrid (8 a.m.) ...	991.7	43	WSW	3	o	1001.7	+5	41	0	-	0	-	bc	4	50	37					
	Lisbon (7 a.m.) ...	1001.3	52	SW	7	thr	999.0	*	51	*	SE	4	*	r	0	54	47					
YESTERDAY'S REPORTS	Malta (8 a.m.) ...	*	*	*	*	*	1010.1	+2	57	-6	NW	3	-	b	2	66	55					
	Azores (Horta, 8 a.m.) ...	1008.8	*	N	4	b	1005.2	+2	62	0	N	2	-	bc	3	63	52					
	Madeira (Funchal) ...	997.3	61	NE	4	c	1005.2	+2	62	0	N	2	-	bc	3	63	52					
	Venice ...	1001.9	48	ENE	4	r	1002.4	-2	52	+5	-	0	*	r	3	14	*					
	Turin ...	1001.2	37	-	0	o	1002.2	0	37	0	-	0	*	o	4	23	*					
	Florence ...	999.3	50	-	0	r	999.1	0	44	-4	-	0	*	bc	4	2	*					
	Pesaro ...	1000.7	50	-	0	o	?	0	50	+2	NE	3	*	o	3	3	*					
	Leghorn ...	*	*	*	*	*	999.7	0	54	+2	-	0	*	o	3	3	*					
	Rome ...	1002.0	59	SSE	4	o	999.6	-2	62	+13	S	5	*	o	4	1	*					
YESTERDAY'S REPORTS	Brindisi ...	1008.7	54	SE	4	o	1009.7	0	55	+9	S	5	*	bc	1	1	*					
	Cagliari ...	997.7	55	ENE	4	o	994.6	0	52	+4	WSW	3	*	o								





**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

Moderate or fresh Easterly winds; dull, some snow or sleet; cold.

Moderate or fresh Easterly winds; dull, some rain, misty; cold.

Moderate Easterly winds; dull, some rain or sleet; cold.

Same as No. 3.

Moderate or fresh Easterly winds; dull, some rain or sleet; cold.

Fresh Easterly winds, moderate Southerly in Bay; dull, some rain and mist; moderate sea.

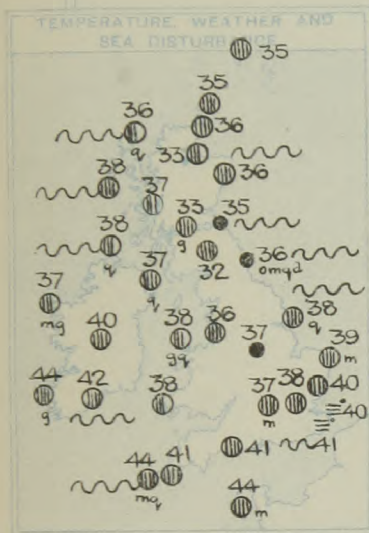
**FURTHER OUTLOOK.**

Millibars  
1050  
1040  
1030  
1020  
1010  
1000  
990  
980  
970



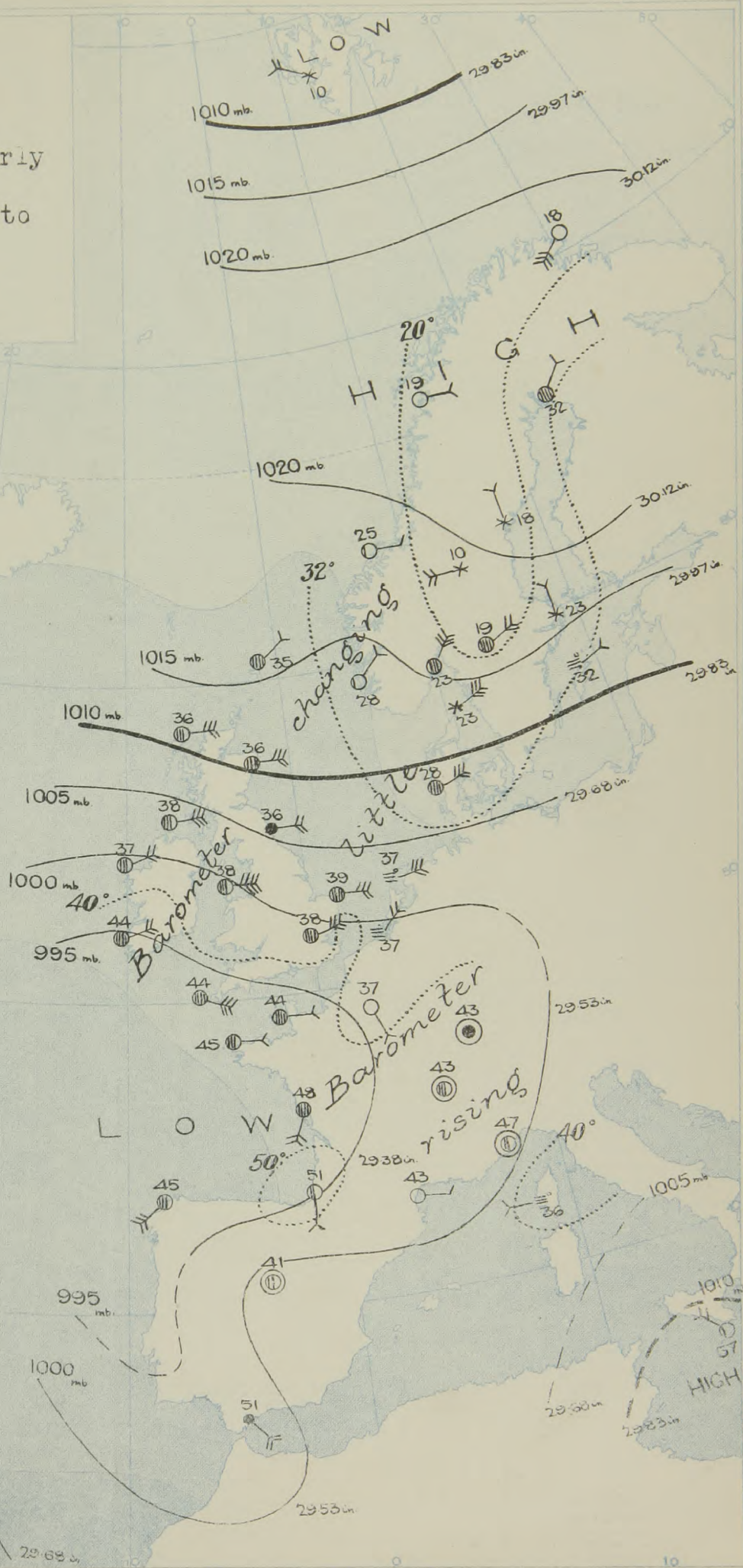
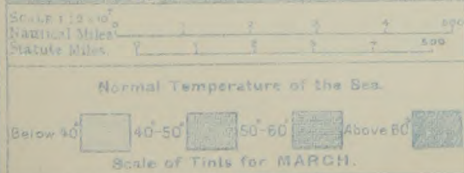
# GENERAL INFERENCE.

The same general Easterly type of conditions is likely to continue.



## EXPLANATION.

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





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	11 <sup>th</sup> AT 9 P.M. LOCAL TIME.					12 <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. ° F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
			Direc.	Force 0-12.						Direc.	Force 0-12.								
Archangel ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uleaborg ...	1029.8	18	NE	3	0	1027.4	-1	18	+8	NE	3	-	S	-	?	-			
Helsingfors ...	1019.5	23	ENE	3	0	1018.0	-1	23	+4	E	2	-	S	0	?	-			
Hangö ...	1021.1	25	ENE	3	0	1016.7	-2	25	+4	ESE	2	-	0	0	?	-			
Riga ...	1015.8	28	SSE	1	0	-	-	-	-	-	-	-	-	0	-	-			
Petrograd ...	1025.1	25	ESE	5	S	1024.3	+1	14	-4	SE	5	-	0	-	2	18			
Moscow ...	1034.4	21	SSE	2	0	1035.5	0	12	+2	SE	2	-	0	-	-	10			
Kiev ...	1021.9	28	ESE	3	0	1024.0	+2	27	+2	ESE	3	-	0	-	-	23			
Kharkov ...	1027.4	23	E	3	0	1024.8	+2	12	0	E	3	-	0	-	-	-			
Kishinev ...	1018.4	31	E	4	0	1021.5	+3	32	0	SE	4	-	0	-	-	30			
Elisabetgrad ...	1021.1	31	ESE	4	0	1023.4	+2	28	+3	SE	3	-	0	-	-	25			
Nicolaiev ...	1018.0	32	E	3	0	1021.3	*	32	+2	E	4	-	0	0	-	28			
Odessa ...	1017.9	32	ESE	4	0	1021.6	+4	32	0	ESE	4	-	0	0	-	32			

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

STATIONS.	Rainfall. mm. & ° F.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & ° F.	Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				
		° F.	° F.						
Scotland. { Oban ...	...	39	32	0	0	0.0	England, E. { Lowestoft ...	...	...
Banff ...	2	35	32	0.5	0.5	0.0	Felixstowe ...	2	43
St. Andrews ...	...	...	...	...	...	...	Walton-on-Naze ...	2	42
England, N.E. { Harrogate ...	15	35	32	r	rs.r	0.0	Southend-on-Sea ...	...	...
Skegness ...	4	39	36	p. oc	oug	0.0	England, S.E. { Margate ...	1	46
England, N.W. { Morecambe ...	...	...	...	...	...	...	Ramsgate ...	1	45
Blackpool ...	...	...	...	...	...	...	Hastings ...	1	53
Southport ...	1	41	35	od	r	0.0	Eastbourne ...	1	47
Midlands { Buxton ...	...	...	...	...	...	...	Seaford ...	...	...
Leamington Spa ...	3	44	34	ofp	ofp	0.0	Brighton ...	...	...
Malvern ...	2	42	33	m	m	0.0	Worthing ...	...	...
Ross-on-Wye ...	...	...	...	...	...	...	Littlehampton ...	...	...
Wales. { Rhyl ...	1	40	34	0	0	0.0	Bognor ...	0.4	49
Colwyn Bay ...	1	39	35	c	or	0.0	Southsea ...	...	...
Llandudno ...	0.4	40	35	c	c.c	0.0	Bournemouth ...	...	...
Aberystwyth ...	...	44	35	c.c	c.b	1.5	England, S.W. { Weymouth ...	...	...
Tenby ...	...	...	...	...	...	...	Torquay ...	1	49
							Paignton ...	...	...
							Penzance ...	...	...
							Newquay ...	...	...
							Ilfracombe ...	...	...
							Weston-super-Mare ...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	p.m. Yester- day.	a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	%	%	Hr.	* F.	* F.	* F.	mm. §	ophr	bc	o
City (Bunhill Row) ...	80	95	2.4	50	37	37	0.3			
Westminster (St. James's Pk.)	*	*	2.6	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	79	94	-	51	38	38	1	or b	hue	oe
Hampstead (Reservoir) ...	-	94	2.7	51	37	36	0.3	-	-	-
Richmond Park	*	98	3.6	48	34	32	0.3	c. bc. o	ome	om*
Kew. (See front page.)	*	*	1.4	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	*	*	1.1	Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	80	94	2.6	626 Joules		151 Milliwatts.		40 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		WEATHER.			Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.				
Dublin to 4 p.m.	4	40	37	35	orq	org	...
Darwen to 9 p.m.	...	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...	...
Oxford to 8 p.m.	...	49	35	34	0	or	...
Teignmouth to 9 "	1	46	34	34	0	or.c	...
Plymouth "	...	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	1	51	37	35	om od	o.c	...

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> March, 1916.	Sunrise	Noon	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.16	12.3	5.50
Greenwich ...	6.31	12.19	5.58
Wick ...	6.35	12.21	6.0
Valencia ...	7.3	12.51	6.39

## NOTES ON YESTERDAY'S WEATHER.

A thunderstorm occurred at Jersey during the night and 22 mm. of rain was measured. The day was much brighter than of late in the south-east of England with 7.5 hours of sunshine at Hastings. Maxima up to 55° occurred in this district.

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; s, squalls; r, rain; s, snow; t, thunder; u, ugly, threatening sky; v, visibility; w, unusual transparency; x, dew; y, hoar frost; z, dust, haze, or smoke.

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



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 74.

Tuesday,  
14th March.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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 24 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.											Max.	Min.	Morning	Afternoon	Night.		
BRITISH ISLANDS.																					
Lerwick ...	1016.0	37	NE	3	o	1016.5	0	36	+1	NE	2	o	2	1	37	35	o	o	o	o	0.0
Deerness (Orkney) ...	1015.9	38	E	5	og	1015.9	0	36	+1	E	3	o	3	1	37	35	o	o	o	o	0.0
Stornoway ...	1012.3	38	E	5	og	1012.7	0	37	+1	E	5	o	5	0.3	39	35	o	og	og	og	0.0
Castlebay (Barra Isd.) ...	1009.1	41	E	3	bc	1010.6	+1	39	+1	E	4	o	4	1	42	37	o	o	bc o c o	o	0.0
Glasgow ...	1009.5	35	ENE	2	omg	1010.4	+1	34	+1	ENE	3	o	1	0.1	36	32	o	omg	omg	omg	0.0
Eskdalemuir ...	1008.9	33	NE	4	o	1010.3	+1	34	+2	NE	3	o	1	0.1	35	31	o	o	o	o	0.0
Malin Head ...	1008.4	40	SE	5	og	1008.9	0	38	0	E	5	o	6	1	40	38	o	og	og	og	0.0
Blacksod Point ...	1002.1	39	E	4	cm	1001.8	-1	36	-1	E	5	o	3	1	41	35	o	o	o	o	0.0
Valencia ...	997.6	40	ENE	3	o	997.6	+1	44	0	NE	2	SE	3	0.1	44	41	o	o	o	o	0.0
Roche's Point ...	998.6	41	E	4	o	999.6	0	45	+3	E	4	SE	4	6	45	40	o	o	o	o	0.0
Birt Castle ...	1000.3	40	E	3	c	1000.2	0	41	+1	ESE	1	o	1	0.4	41	38	o	o	o	o	0.0
Donaghadee ...	1005.4	39	ESE	5	ogmg	1006.2	+1	38	+1	ESE	5	o	4	1	42	36	o	ogmg	ogmg	ogmg	0.0
Liverpool (Bidston) ...	1003.6	37	ENE	3	o	1006.5	+3	38	+2	E	2	E	3	3	40	35	o	o	o	o	0.0
Holyhead ...	1001.2	39	E	7	om	1005.0	+2	40	+2	E	4	o	4	4	41	38	o	o	o	o	0.0
L'embroke (St. Ann's) ...	998.4	40	E	3	omg	1002.6	+2	41	+3	SE	4	SE	4	0.2	43	38	o	o	o	o	0.0
Scilly (St. Mary's) ...	993.5	46	ESE	5	om	996.7	0	47	+3	ESE	5	o	5	6	47	44	o	omg	omg	omg	0.0
Falmouth ...	995.7	43	E	4	om	1000.1	0	46	+5	ESE	3	o	4	4	45	40	o	om	om	om	0.0
Jersey (St. Aubin) ...	997.0	48	S	3	og	1002.7	0	45	+1	E	4	o	3	2	49	41	o	o	o	o	0.0
Portland Bill ...	996.4	41	ENE	4	or	1003.2	+1	43	+2	ENE	2	o	3	4	44	39	o	o	o	o	0.0
Dungeness ...	999.9	41	NNE	4	f	1005.9	+4	34	-7	NNE	2	o	2	9	44	33	o	o	o	o	0.0
Dover ...	1001.3	40	NNE	3	f	1006.0	+5	35	-5	o	0	o	2	0	43	33	o	o	o	o	0.0
Wick ...	1014.0	38	ESE	3	o	1015.5	+2	37	+1	ESE	3	o	4	2	39	33	o	o	o	o	0.0
Nairn ...	1012.4	35	E	2	og	1012.5	0	35	+2	ENE	2	o	2	1	37	32	o	o	o	o	0.0
Aberdeen ...	1013.1	36	E	5	o	1014.2	+1	37	+1	E	4	o	4	1	37	34	o	o	o	o	0.0
Leith ...	1009.5	37	E	2	r	1010.6	+1	36	+1	E	2	o	5	2	38	34	o	o	o	o	0.0
Tynemouth ...	1008.0	37	E	4	om	1009.7	+1	37	+1	E	5	o	5	3	37	36	o	o	o	o	0.0
Spurn Head ...	1004.5	39	E	4	og	1007.4	+1	38	0	ESE	5	o	5	3	39	32	o	o	o	o	0.0
Yarmouth ...	1003.4	38	E	4	o	1007.4	+3	39	0	SE	2	o	2	Trace	39	38	o	o	o	o	0.0
Clacton-on-Sea ...	1001.4	41	ENE	3	m	1007.1	+4	41	+1	E	1	o	2	5	41	39	o	o	o	o	0.0
Nottingham ...	1003.3	37	ENE	4	r	1007.2	0	39	+2	E	2	E	2	4	39	36	o	o	o	o	0.0
Benson (Oxon.) ...	1000.7	41	ENE	2	o	1006.5	+4	41	+4	E	2	o	1	7	42	37	o	o	o	o	0.0
St. Farnborough ...	1000.3	41	E	4	m	1006.3	+4	41	+4	ENE	2	o	1	4	41	37	o	o	o	o	0.0
London (Kew Obs.) ...	1001.5	41	E	4	om	1007.2	+3	41	+3	ESE	2	o	1	7	42	38	o	o	o	o	0.0
NORTHERN EUROPE.																					
Spitsbergen ...	1000.0	5	NNW	2	o	1011.9	+6	7	-3	o	0	o	5	0	23	3	o	o	o	o	0.0
Vardö ...	1018.6	18	SW	6	b	1013.8	-3	23	+5	WSW	7	o	4	0	19	13	o	o	o	o	0.0
Boö ...	1019.5	23	E	2	b	1020.6	0	19	0	E	2	o	2	1	25	18	o	o	o	o	0.0
Christiansund ...	1014.7	27	o	0	b	1016.6	+2	27	+2	SE	3	o	3	1	30	25	o	o	o	o	0.0
Skudesnaes ...	1014.6	20	N	2	b	1014.7	0	27	-1	E	2	o	1	1	36	25	o	o	o	o	0.0
Færder (Xania Fjord) ...	1016.6	25	NNE	6	o	1017.7	+1	25	+2	NNE	6	o	2	1	25	21	o	o	o	o	0.0
The Scaw (Skagen) ...	1012.0	27	NE	5	o	1013.6	+1	28	+5	ENE	4	o	4	1	28	23	o	o	o	o	0.0
Blaavands Huk ...	1008.4	32	ENE	3	m	1010.7	+3	32	+4	ENE	1	o	2	1	32	25	o	o	o	o	0.0
Haparanda ...																					
Hernösand ...																					
Stockholm ...																					
Wisby ...																					
Karlstad ...																					
FRANCE, &c.																					
The Helder ...	1003.9	36	ENE	5	o	1008.4	+2	36	-1	E	2	o	1	Trace	37	36	o	o	o	o	0.0
C. Gris Nez ...	999.7	41	NE	3	f	1007.0	+4	44	+4	S	2	o	1	7	45	39	o	o	o	o	0.0
La Hève ...	999.3	48	SSW	4	b	1005.6	0	42	+2	ENE	3	o	2	1	54	41	o	o	o	o	0.0
Brest (St. Mathieu) ...	997.0	49	S	4	bc	999.3	+2	47	+2	SE	4	o	3	1	52	45	o	o	o	o	0.0
Rochetort (Ile d'Aix) ...	997.3	55	SW	4	c	1002.7	+2	45	-3	SSE	4	o	3	1	55	45	o	o	o	o	0.0
Biarritz ...	999.1	57	ENE	1	bc	1002.0	0	53	+2	SSE	2	o	0	1	63	50	o	o	o	o	0.0
Paris ...	1000.8	54	SW	2	b	1007.4	+2	36	-1	o	0	SW	0	1	54	36	o	o	o	o	0.0
Belfort ...	1003.0	48	o	0	c	1010.7	0	43	0	o	0	o	1	1	51	39	o	o	o	o	0.0
Lyons ...	1002.7	54	SW	2	b	1009.3	0	41	-2	o	0	o	1	1	62	39	o	o	o	o	0.0
Nice ...	1006.7	50	S	2	f	1012.6	+3	45	-2	S	1	o	3	1	57	41	o	o	o	o	0.0
Pergignan ...	1001.2	54	NE	1	b	1006.6	+1	46	+3	o	0	SW	0	1	64	45	o	o	o	o	0.0
Sanguinaire ...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
SOUTHERN EUROPE.																					
Corunna (7 a.m.) ...	994.6	50	SW	4	o	1000.7	+5	45	0	SW	3	o	2	4	54	45	o	o	o	o	0.0
Madrid (8 a.m.) ...	1001.1	54	W	2	bc	1007.4	+3	41	0	SSW	1	o	0	1	54	37	o	o	o	o	0.0
Lisbon (9 a.m.) ...	1014.1	55	SW	5	bc	1014.3	+2	52	0	WSW	3	o	6	3	57	50	o	o	o	o	0.0
Gibraltar ...	1008.1	51	NW	5	b	1011.5	0	54	+3	W	6	o	3	56	54	50	o	o	o	o	0.0
Malta (8 a.m.) ...	0	0	0	0	0	1015.4	+1	57	0	SSE	1	W	0	0	62	54	o	o	o	o	0.0
Azores (Horta, 8 a.m.) ...	1004.7																				



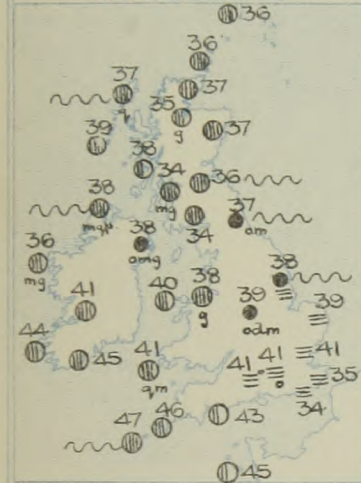




GENERAL INFERENCE.

Another depression which is indicated over Mid-Atlantic is likely to maintain the unsettled type of conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

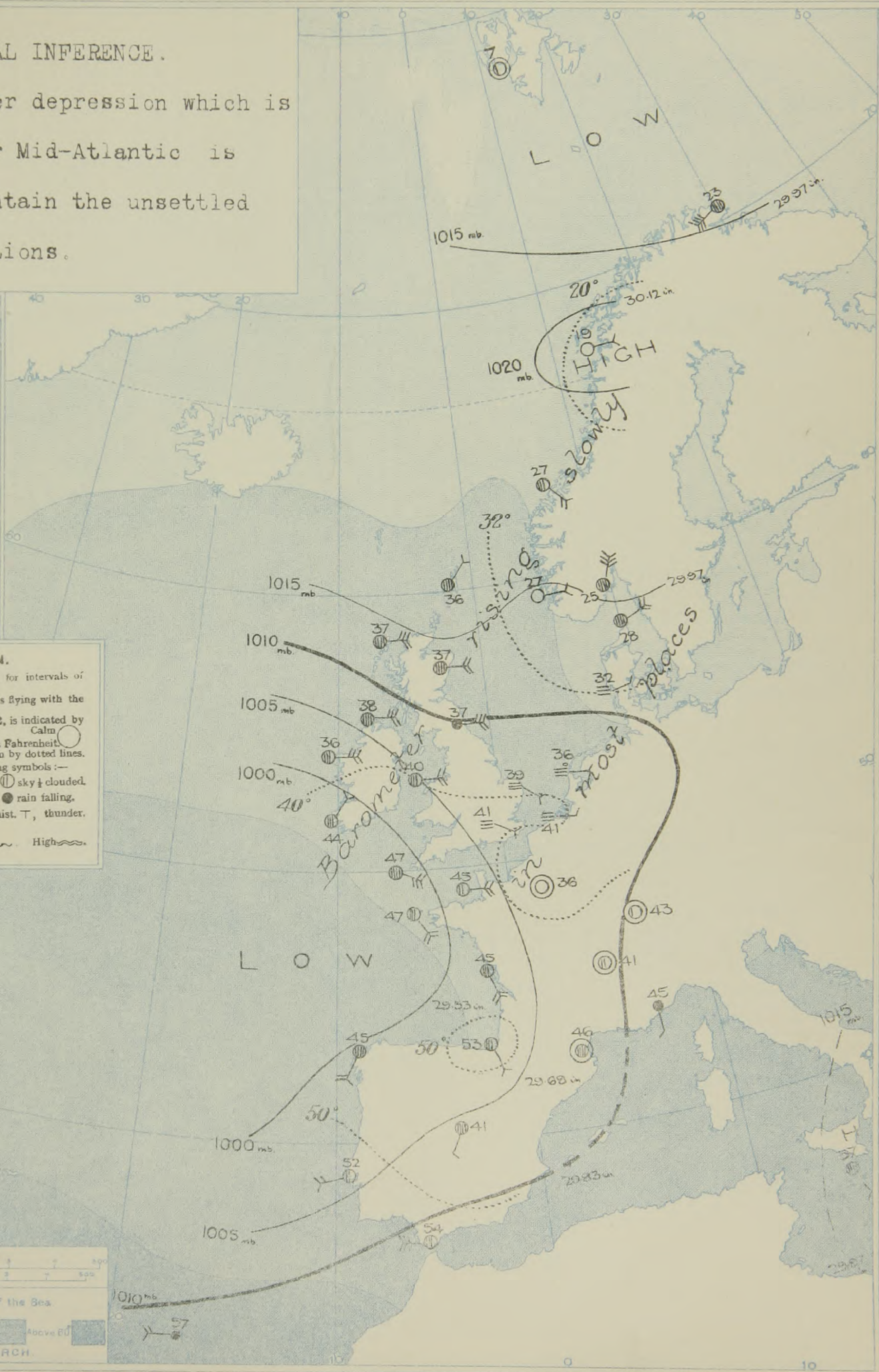
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 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

SCALE 1:250,000  
 Nautical Miles 0 1 2 3 4 5 6 7 8 9 10  
 Statute Miles 0 1 2 3 4 5 6 7 8 9 10

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MARCH.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	12 <sup>15</sup> AT 9 P.M. LOCAL TIME.						13 <sup>15</sup> 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.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.					
			Direc.	Force 0-12.						Direc.	Force 0-12.									
Archangel ...	1035.9	18	WSW	2	bc	1031.5	+3	14	-	SE	3	*	0	?	-	*	12			
Uleaborg ...	1022.2	18	ESE	4	0	1021.9	0	23	+5	SE	3	*	0	*	-	*	*			
Helsingfors ...	1020.6	23	E	2	0	1019.8	-1	23	0	E	3	*	0	0	4	*	*			
Hangö ...	1019.0	27	-	0	0	1017.8	-1	25	0	E	2	*	0	0	?	*	*			
Riga ...	1017.2	28	SE	3	0	1014.6	-1	32	-	SE	3	*	0	0	3	*	*			
Petrograd ...	1024.3	27	SE	3	0	1023.0	-1	25	+11	SE	3	*	0	*	-	27	14			
Moscow ...	1036.4	14	SE	3	c	1036.2	0	9	-3	SSE	2	*	bc	*	-	*	5			
Kiev ...	1025.3	28	SE	4	0	1025.2	0	28	+1	ESE	3	*	0	*	-	*	25			
Kharkov ...	1032.8	21	E/NE	2	b	1034.0	+1	14	+2	E	2	*	bc	*	-	*	*			
Kishinev ...	1024.4	32	SE	4	f	1018.7	0	30	-2	SSE	3	*	0	*	-	*	30			
Elisabetgrad ...	1027.0	32	SE	3	0	1026.7	-1	27	-1	ESE	3	*	b	*	-	*	25			
Nicolaiev ...	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-			
Odessa ...	1025.0	32	ESE	2	0	1023.8	-1	32	0	ESE	3	*	0	0	-	*	30			

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.		STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.					Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.							° F.	° F.			
Scotland.								England, E.						
Oban ...	-	44	35	bc	bc	40		Lowestoft ...	0.2	40	30	op. o	p. o	00
Banff ...	0.2	36	33	0	0	00		Felixstowe ...	2	41	37	omp	omp	00
St. Andrews ...	5	38	33	*	*	00		Walton-on-Naze ...	-	-	-	-	-	-
								Southend-on-Sea ...	3	41	38	n	m	00
Eng. N.E.								England, S.E.						
Harrogate ...	4	35	32	r. o	0	00		Margate ...	-	43	39	0	oc	00
Skegness ...	2	39	37	og	ogr	00		Ramsgate ...	-	42	38	0	om	00
								Hastings ...	6	47	39	oc bc	bc. o	32
Eng. N.W.								Eastbourne ...	6	45	40	0	o. bc. f	05
Morecambe ...	-	39	35	c. o	oc	10		Seaford ...	9	48	39	r. o	r. c	1.2
Blackpool ...	-	-	-	-	-	-		Brighton ...	2	48	40	or. o	o. c. bc. o	2.9
Southport ...	1	40	36	oc. o	0	00		Worthing ...	3	47	39	c	c	18
								Littlehampton ...	0.3	47	40	0	bc. o	15
Midlands								Bognor ...	-	-	-	-	-	-
Buxton ...	1	34	31	cm	cm	00		Southsea ...	-	-	-	-	-	-
Leamington Spa ...	2	40	36	omp	omp	00		Bournemouth ...	3	43	38	n	st. o	00
Malvern ...	2	38	35	0	oc	00								
Ross-on-Wye ...	1	40	35	n	n	00		England, S.W.						
								Weymouth ...	3	44	38	0	p. oc	00
Wales.								Torquay ...	4	47	39	op	oc	00
Rhyl ...	-	40	36	0	o. c	00		Paignton ...	3	45	38	od. o	od	00
Colwyn Bay ...	2	40	36	c. o	0	00		Penzance ...	8	45	39	0	oc	00
Llandudno ...	1	41	37	c	c	00		Newquay ...	*	48	39	o. c	0	05
Aberystwyth ...	-	42	37	oc. b	c. o	15		Ilfracombe ...	0.3	43	35	0	0	00
Tenby ...	0.2	45	33	bc. c. o	oc	00		Weston-super-Mare ...	6	41	36	0	o	00

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 93	% 97	Hr. 0.0	° F. 44	° F. 39	° F. 38	mm.‡ 9	o. omg	o p. dm	o r. omc
City (Bunhill Row) ...	* *	* *	0.0	* *	* *	* *	* *	* *	* *	* *
Westminster (St. James's Pk.)	97	93	0.0	45	39	35	9	m hr	o e	o m. f e
Camden Sq. (Brit. Rainfall)	94	95	0.0	44	38	39	9	o. or	o	* *
Hampstead (Reservoir) ...	**	99	0.0	41	37	34	41	o r m	o m e	o m
Richmond Park ...	**	* *	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	* *	* *	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	92	90	0.0	102 Joules		2.4 Milliwatts.		6 Milliwatts.		

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> March, 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.14	12.2	5.52
Greenwich ...	6.17	12.10	5.50
Wick ...	6.35	12.11	6.8
Valencia ...	7.58	12.51	6.41

## NOTES ON YESTERDAY'S WEATHER.

Maximum temperature was below 40° in many localities. Rain was general but not heavy. A thunderstorm occurred at Dungeness and Clacton-on-Sea. As a rule there was no sunshine, but Oban had four hours.

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

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

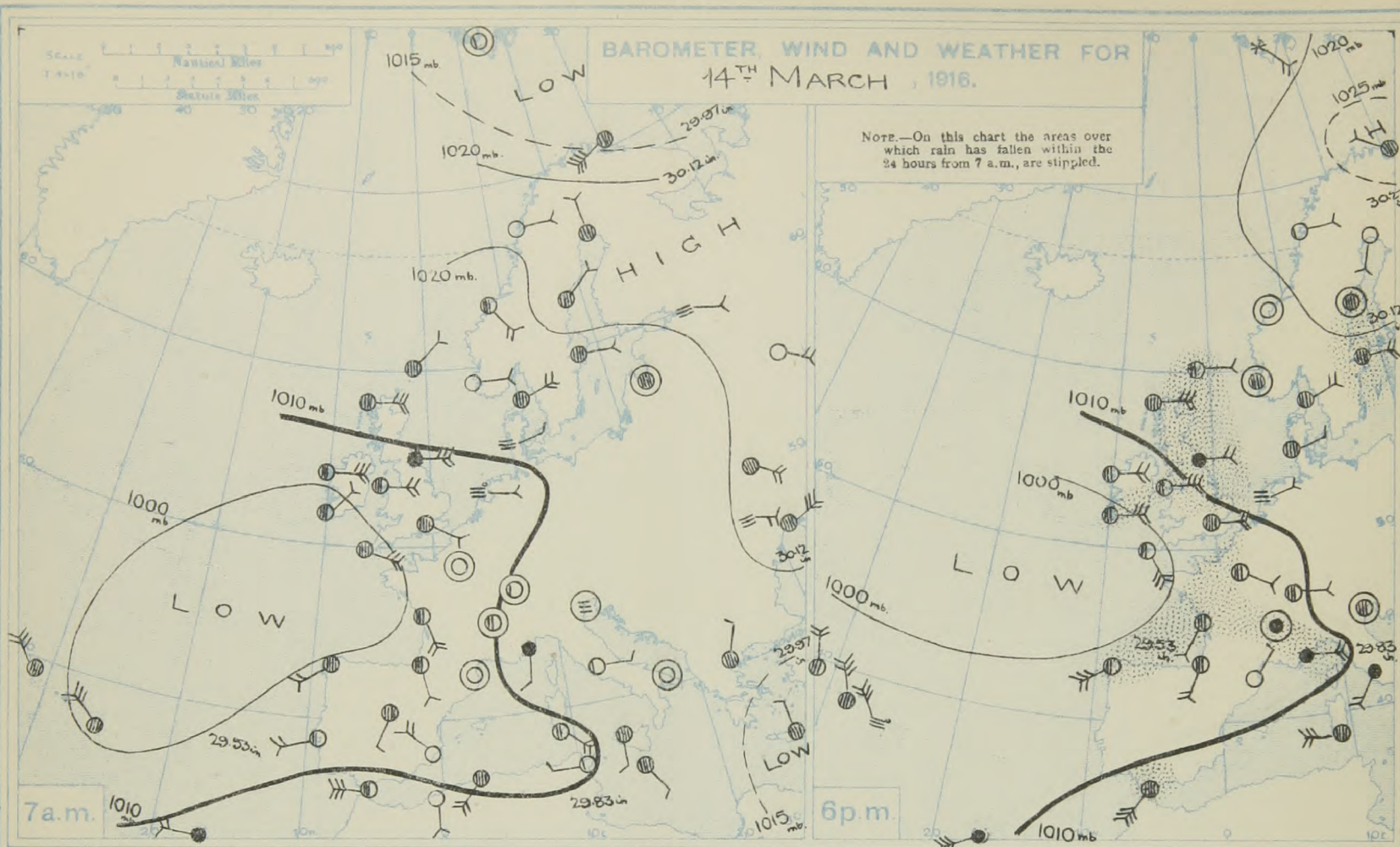


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 75.

Wednesday,  
15th March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.				Dir.	Force 0-12.	Max.	Min.					Morning.	Afternoon.	Night.				
BRITISH ISLANDS.	Lerwick ...	1007.4	36	E	2	bc	1017.6	0	35	-	0	-	c	0	1	39	32	asp	bc	bc.c	Hours.	
	Deerness (Orkney) ...	1016.6	36	ESE	3	o	1015.8	0	36	0	ESE	4	-	o	4	39	36	o	o	o	0.0	
	Stornoway ...	1013.9	38	E	5	og	1012.5	0	38	+1	E	3	-	o	3	39	36	og	og	og	0.0	
	Castlebay (Barra) (Isd.)	1010.9	42	E	4	o	1011.0	0	39	0	ENE	2	-	b	3	42	38	o	o	o bc b	0.0	
	Glasgow ...	1012.0	35	ENE	3	o	1011.7	0	37	+3	ENE	3	-	og	1	37	33	or sp	omg	omgdp	0.0	
	Eskdalemuir ...	1012.0	34	NE	4	om	1011.3	0	35	+1	NE	4	-	o	2	35	32	o os o	o om	ome	0.0	
	Malin Head ...	1007.6	40	E	5	cmg	1007.3	0	40	+2	E	4	-	om	5	41	37	cmg p	omg	om	0.0	
	Blacksod Point ...	1002.1	45	E	4	cm	1003.4	+3	42	+6	SE	4	-	ofe	3	43	35	cm	bcm	cm ofe	0.0	
	Valencia ...	995.4	47	E	5	cp	999.2	+2	47	+3	E	4	SE	c	3	49	44	c op	egph	cp.c	0.0	
	Roche's Point ...	1000.3	44	E	5	o	1001.8	0	45	0	E	3	-	o	4	49	44	c opm	om	om	0.0	
	Birr Castle ...	1002.4	45	ESE	3	c	1003.4	0	43	0	E	1	-	o	0.2	50	41	c	cp	c.o	3.4	
	Donaghadee ...	1008.1	41	ESE	4	cmg	1008.6	0	37	+1	ESE	5	-	ogmg	4	44	37	omg	om cmg	om cmg	0.0	
	Liverpool (Bidston) ...	1008.3	42	ESE	3	o	1008.0	-3	36	-2	E	3	E	o	2	46	36	om	om	o	1.2	
	Holyhead ...	1005.1	45	E	5	bcm	1004.6	0	40	0	E	6	E	bcmg	5	41	40	c bc bz	b bcm	bc b p o	7.9	
	Pembroke (St. Ann's) ...	1002.3	46	ESE	4	cm	1002.9	0	44	+3	E	3	E	cm	3	41	41	cpm	cpm	cp	0.8	
	Scilly (St. Mary's) ...	999.0	49	SE	5	bc	1000.0	-1	47	0	ESE	3	SE	c	4	52	46	c bc	b bc	bc bc c	9.0	
	Falmouth ...	1001.6	47	SE	3	bz	1000.7	-1	45	-1	E	1	-	omd	2	49	43	o	op o c b	c o d r d	2.6	
	Jersey (St. Aubin) ...	1002.7	52	E	2	o	1000.0	0	45	0	E	3	-	bp	3	54	44	bc c	bc o	tlp. cp	6.0	
	Portland Bill ...	1004.0	45	ENE	3	bc	1002.5	-1	43	0	ENE	4	E	o	4	50	42	bc	c bc	bc c d	0.0	
	Dungeness ...	1006.0	44	NE	5	f	1003.9	0	42	+8	ENE	5	-	ou	5	44	34	f	f	p o	0.0	
	Dover ...	1008.0	40	N	1	f	1004.9	0	41	+6	ENE	3	-	m	4	49	35	ofe c	bc c of	f o bcm	1.6	
NORTHERN EUROPE.	Wick ...	1016.5	38	SE	3	c	1014.9	-1	39	+2	SE	3	-	c	3	40	37	omg c	cm	pd cm	0.0	
	Nairn ...	1014.7	36	E	2	cg	1013.5	0	37	+2	-	0	-	c	1	38	34	cg	cg	cg	0.0	
	Aberdeen ...	1015.3	37	E	4	op	1014.4	0	38	+1	E	4	-	omd	4	40	36	o	of	omg p	0.0	
	Leith ...	1012.2	38	E	1	r	1011.7	0	38	+2	E	2	-	o	4	38	35	r	r	rod es	0.0	
	Tynemouth ...	1011.4	39	E	3	ogmr	1011.2	-1	38	+1	E	2	-	omd	4	39	36	om	ogm	omd	0.0	
	Spurn Head ...	1010.7	39	ESE	3	f	1009.7	-1	38	0	ESE	4	-	od	4	0.2	39	36	f	f	om	0.0
	Yarmouth ...	1010.5	40	E	2	o	1008.6	-1	38	-1	E	3	-	of	3	0.4	41	36	fd	f m	om fd	0.0
	Clacton-on-Sea ...	1009.0	40	NE	3	f	1008.9	0	40	-1	ENE	4	-	m	3	1	42	38	of	f m f	f omg p	0.0
	Nottingham ...	1009.3	42	E	2	o	1008.3	0	37	-2	ENE	4	E	o	0.2	42	36	dm oe	f m f	f omg p	0.0	
	Benson (Oxon.) ...	1006.5	46	E	1	m	1005.8	0	38	-3	E	3	-	o	2	54	37	md cm	bm	cr	0.0	
	St. Farnborough ...	1006.4	47	E	3	m	1004.9	-1	38	-3	ENE	3	-	om	5	56	38	d om c	bcm	m om	3.9	
	London (Kew Obs.) ...	1007.9	43	E	4	om	1006.1	-1	39	-2	ENE	3	-	om	Trace	50	38	of om cm	cm om	of om cm	2.1	
	Spitsbergen ...	1016.2	14	SE	3	s	1015.1	+3	14	+7	NW	2	-	s	0	14	-2					
	Vardö ...	1027.0	30	NW	2	o	1022.1	+4	28	+5	NNW	2	-	o	5	30	14					
	Bodö ...	1023.4	25	E	2	b	1023.4	0	27	+8	E	4	-	b	2	27	18					
	Christiansund ...	1018.9	27	-	0	b	1020.4	0	25	-2	-	0	-	b	3	32	23					
	Skudesnaes ...	1017.0	32	-	0	o	1017.6	0	34	+7	-	0	-	o	1	36	27					
Færder (Xania) (Fjord) ...	1018.0	19	N	5	m	1019.0	0	28	+3	NNE	6	-	o	2	28	19						
The Scaw (Skagen) ...	1015.3	30	ENE	3	o	1016.4	+2	30	+2	NE	4	-	m	4	32	28						
Blaavands Huk ...	1013.7	34	ENE	1	o	1014.9	0	32	0	NE	1	-	o	2	36	30						
FRANCE, &c.	Haparanda ...	1023.4	16	SW	2	b	1027.3	+4	-2	-21	NE	2	-	f	0	25	-4					
	Hernösand ...	1023.7	25	-	0	o	1025.2	0	23	+2	N	2	-	f	0	27	18					
	Stockholm ...	1018.4	32	E	4	o	1019.0	+1	30	-2	NNE	2	-	o	Trace	34	30					
	Wisby ...	1015.7	34	ENE	2	o	1016.0	+2	34	0	ENE	2	-	m	2	36	32					
	Karistad ...	1017.7	28	ENE	4	s	1019.3	+1	28	+3	NNE	2	-	o	2	28	19					
	The Helder ...	1010.7	37	ENE	2	f	1009.7	0	37	+1	ENE	5	-	m	3	Trace	37	36				
	C. Gris Nez ...	1007.4	40	NE	4	f	1005.1	-2	42	-2	NE	2	-	f	2	43	37					
	La Hève ...	1005.5	43	ESE	3	c	1003.3	0	46	+4	E	4	-	o	6	55	42					
	Brest (St. Mathieu) ...	1002.7	30	SE	3	c	1000.7	-2	45	-2	ESE	3	-	c	4	54	43					
	Rochefort (de l'Aix) ...	1004.3	34	SW	2	c	1001.0	-1	43	-2	SSE	3	-	o	2	61	43					
	Biarritz ...	1002.7	50	SW	3	c	?	-3	55	+2	SE	3	-	o	1	64	48					
	Paris ...	1005.6	55	-	0	c	1004.3	0	46	+10	SE	2	-	o	0	66	36					
	Belfort ...	1008.4	55	E	2	e	1010.3	0	43	0	WSW	4	-	o	0	63	41					
	Lyons ...	1009.7	46	-	0	r	1008.4	0	45	+4	-	0	-	b	12	54	43					
	Nice ...	1009.3	51	E	4	r	1011.5	+2	48	+3	E	1	-	b	2	59	36					
	Perpignan ...	1005.6	52	NE	1	b	1006.7	0	50	+4	-	0	-	o	0	63	45					
	Sanguinaire ...	*	58	S	5	c	*	*	54	SE	2	-	c	2	6	61	50					
SOUTHERN EUROPE.	Corunna (7 a.m.) ...	1001.6	52	SW	5	bc	997.1	-1	45	0	SW	1	-	bc	1	54	41					
	Madrid (8 a.m.) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
	Lisbon (7 a.m.) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
	Gibraltar ...	1012.2	57	SW	6	o	1008.4	0	57	+3	SW	7	-	o	3	61	53					
	Malta (8 a.m.) ...	*	*	*	*	*	1012.0	0	59	+2	ESE	3	-	m	2	66	57					
	Azores (Horta, 8 a.m.) ...	1004.7	*	NW	5	o	*	*	*	*	*	*	*	*	*	*	*					
	Madeira (Funchal) ...	1008.8	59	WSW	6	r	1007.8	0	61	+4	WNW	3	-	r	15	63	59					
	YESTERDAY'S REPORTS ... 13h ... 8 P.M. G.M.T.	14h 21g anch, 7 A.M. G.M.T.																				
	Venice ...	1005.7	52	-	0	c	1012.6	+5	43	-9	-	0	-	f	4	Trace	*	*	*	*		
	Turin ...	td																				





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.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

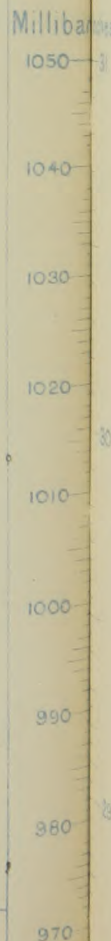
No Warnings Issued.

Western Channel and Bay 11

Easterly to South-Easterly breezes,  
moderate or fresh at times; mostly dull,  
some rain, mist or fog; moderate temperature.

Moderate Easterly to South-Easterly breezes in north to South-West in south; sea moderate; fair to dull, some rain, mist or fog; moderate temperature.

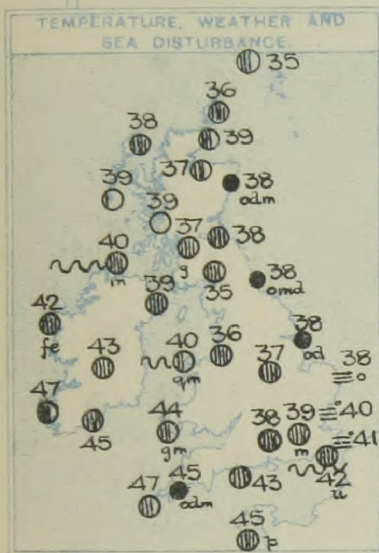
FURTHER OUTLOOK.





GENERAL INFERENCE.

The changes of pressure are slight, and afford no definite indication of any considerable modification in the general conditions.



EXPLANATION.

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

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

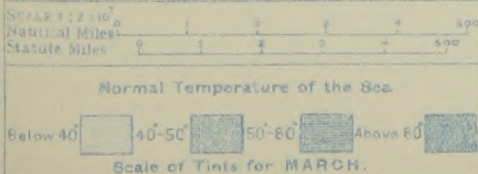
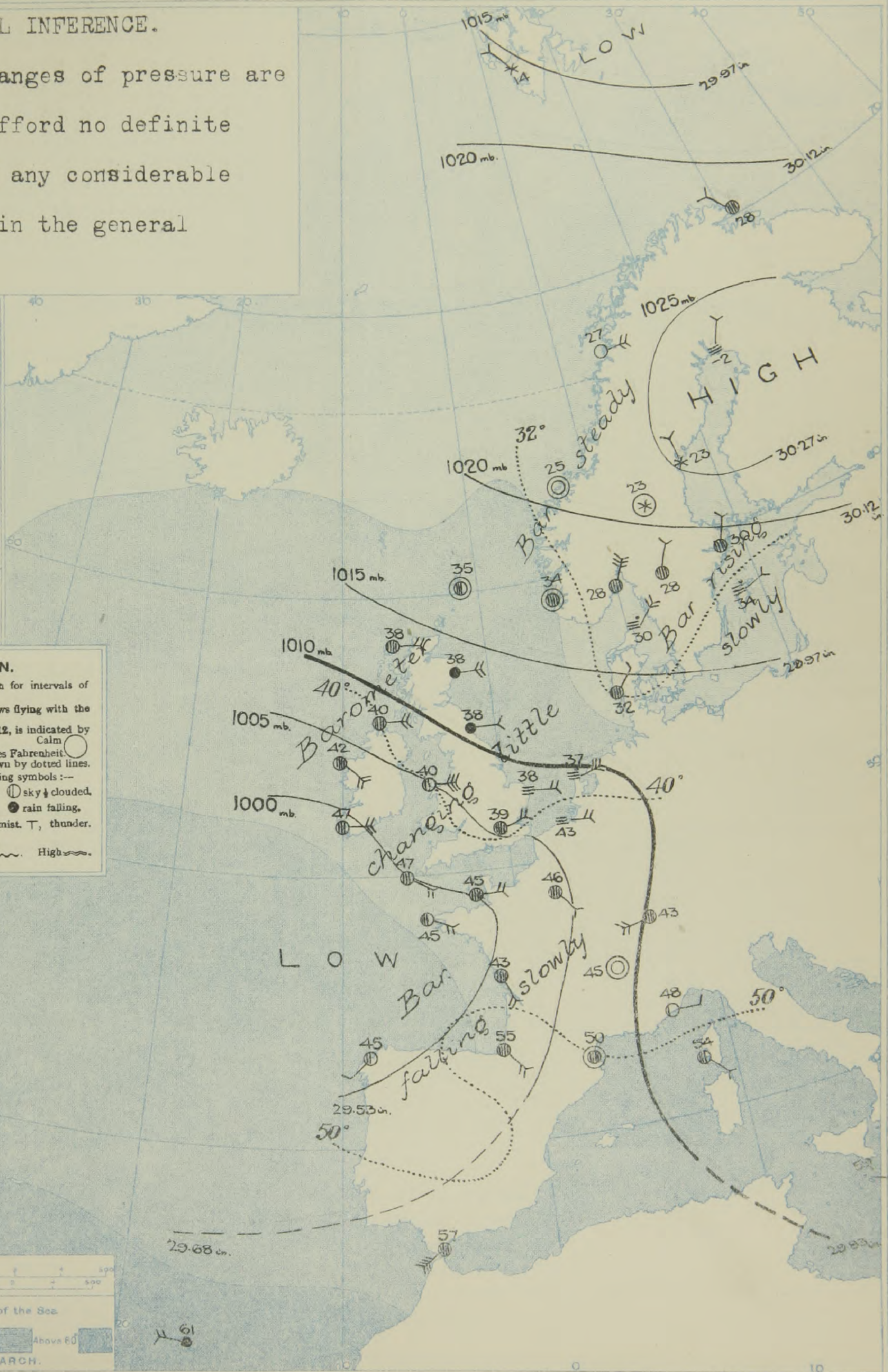
Force, on the scale 0-12, is indicated by the number of feathers. Calm

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.  
 K, thunderstorm.

SEA DISTURBANCE.—Rough wavy. High wavy.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	Barom. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. ° F.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-6.	Rain- fall. Milli- metres.	TEMP.	
			Dir.	Force 0-12.					Dir.	Force 0-12.					Max.	Min.
Archangel ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Uleaborg ...	1023.3	25	SE	3	o	1022.5	0	23	SE	2	*	o	*	*	*	*
Helsingfors ...	1016.3	34	SE	1	o	1019.9	+1	28	ENE	2	*	o	o	*	*	*
Hangö ...	1018.1	30	ESE	2	o	1018.6	+1	30	E	2	*	o	o	*	*	*
Riga ...	1014.9	36	SE	2	f	1016.2	+2	30	SE	2	*	f	o	*	*	*
Petrograd ...	1022.7	25	SE	3	s	1021.9	0	18	ESE	2	*	f	*	*	28	25
Moscow ...	1034.2	19	SSE	5	o	1032.9	-1	18	SE	3	*	f	*	*	16	16
Kiev ...	1024.3	32	SE	4	b	1025.1	0	30	SE	4	*	o	*	*	27	27
Kharkov ...	1032.9	25	E	1	c	1034.2	0	21	E	2	*	o	*	*	*	*
Kishinev ...	1022.3	32	ESE	2	f	1022.4	0	32	ESE	3	*	f	*	*	30	30
Elisabetgrad ...	1025.6	32	SE	4	b	1026.3	0	32	ESE	4	*	f	*	*	?	?
Nicolaiev ...	1023.4	32	E	2	b	1023.0	*	32	ENE	5	*	o	o	*	?	?
Odessa ...	1023.0	34	SE	4	o	1022.6	0	32	ESE	3	*	f	o	*	32	32

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		° F.	° F.				England, E.		° F.	° F.			
Oban ...	...	42	36	o.b.c	bc	0.0	Lowestoft ...	0.3	42	38	om	of	0.0
Banff ...	...	37	22	o	o.b.c	0.0	Felixstowe ...	3	44	38	om	om	0.0
St. Andrews ...	...	*	*	*	*	0.0	Walton-on-Naze ...	3	42	39	of c	om	0.0
England, N.E.							Southend-on-Sea ...	2	42	39	f	f	0.0
Harrogate ...	5	38	33	o.c	oc	0.0	Margate ...	1	43	41	ofe	ofe	0.0
Skegness ...	0.3	40	38	mog	gm	0.0	Ramsgate ...	1	42	38	f	f	0.0
England, N.W.							Hastings ...	4	53	38	cl. bc	bc	6.7
Morecambe ...	...	43	38	c	bc	1.5	Eastbourne ...	2	47	34	f.oe	f	2.4
Blackpool ...	...	46	37	o	o.c.o	0.1	Seaford ...	1	54	37	b	b	9.0
Southport ...	...	46	37	o	o.c.o	0.1	Brighton ...	4	58	35	c	c	6.7
England, S.E.							Worthing ...	3	59	38	b	b. x. bc	8.0
Buxton ...	...	50	38	o.c bc	bc	2.1	Littlehampton ...	2	51	42	o.b	b. o	5.8
Leamington Spa ...	2	50	37	o.c	bc.c	2.2	Bognor ...	...	...	...	...	...	...
Malvern ...	...	52	38	o.c	bc	2.7	Southsea ...	...	...	...	...	...	...
Ross-on-Wye ...	...	52	38	o.c	bc	2.7	Bournemouth ...	2	54	38	b	b.bc	4.8
Wales.							England, S.W.						
Rhyl ...	1	50	36	b.c	b.bc	2.6	Weymouth ...	4	51	39	g.bc.b	bc.o	5.0
Colwyn Bay ...	1	48	36	c	bc.o	2.6	Torquay ...	2	52	37	bc	bc.o	4.1
Llandudno ...	2	50	36	c	b	7.0	Paignton ...	...	...	...	...	...	...
Aberystwyth ...	4	49	40	o.c	c.bc	7.3	Penzance ...	4	51	43	o.c	bc.b	3.4
Tenby ...	2	48	40	bc	bc.c	0.9	Newquay ...	*	49	40	bc.c or	r.c.bc	3.2
							Ilfracombe ...	...	51	34	b.bc.b	b.lx	6.1
							Weston-super-Mare ...	5	56	37	bc.b	bc.b	5.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Max.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	94	99	0.2	49	37	37	1	of. cl	om	om
City (Rushmill Row) ...	...	...	0.0	...	...	...	...	...	...	...
Westminster (St. James's Pk.)	95	98	0.7	50	39	38	1	bc. b	bc. ur	or
Camden Sq. (Brit. Rainfall)	92	99	0.1	49	37	37	1	om	om	*
Hampstead (Reservoir) ...	*	100	0.4	47	34	31	1	om. e	om	om
Richmond Park ...	*	*	...	...	...	...	...	...	...	...
Kew. (See front page.)	*	*	...	...	...	...	...	...	...	...
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	...	...	...	...	...	...	...	...	...	...
S. Kensington (Roof of M.O.)	90	96	1.0	475	475	475	11.3	43	43	43

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
Dublin to 4 p.m.	mm §	° F.	° F.	° F.		
Darwen to 9 p.m.	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	51	40	39	or. o	om
Teignmouth to 9 "	3	48	38	34	or. o	bc. bc. qd
Plymouth "	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	4	51	40	40	egmd. o	om. bc. om

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

15 <sup>th</sup> & 16 <sup>th</sup> March, 1916.	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.11	G.M.T. 12.2	G.M.T. 5.54
Greenwich ...	G.M.T. 6.17	G.M.T. 12.9	G.M.T. 6.2
Wick ...	G.M.T. 6.32	G.M.T. 12.21	G.M.T. 6.14
Valencia ...	G.M.T. 6.55	G.M.T. 12.50	G.M.T. 6.43

## NOTES ON YESTERDAY'S WEATHER.

The day varied greatly. Afternoon temperature ranged from 37° at Banff to 56° at Farnborough and Weston-super-Mare. Some places had no sunshine, others more than six hours, Seaford and Scilly nine hours. There was much mist and 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; 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. and at the bookstalls at certain Railway Termini in London.

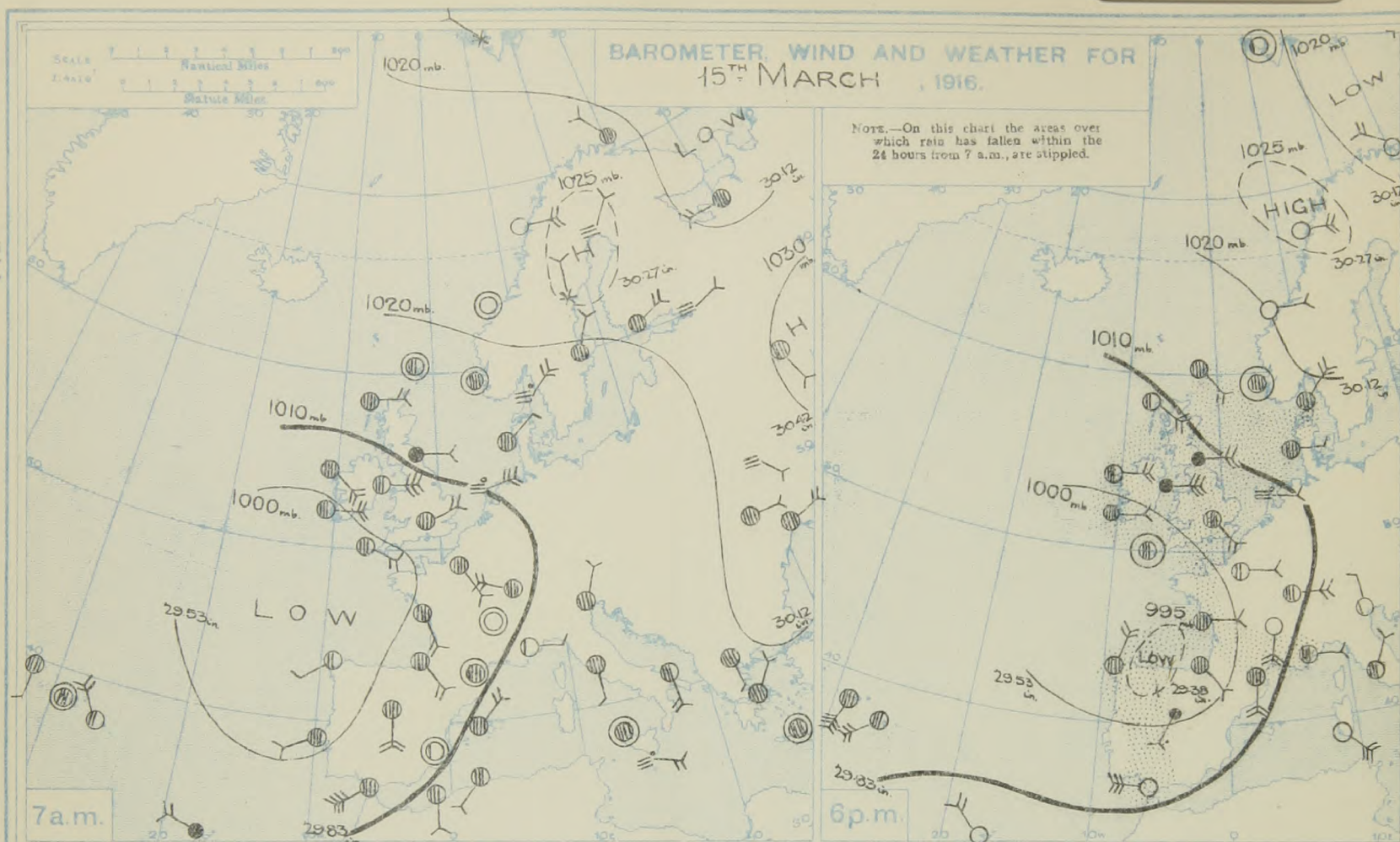


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 76.

Thursday,  
16th March.

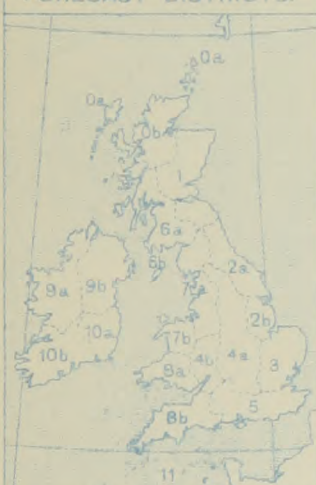
STATIONS.		YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud	Weather.	Sea 0-1.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																						
Lerwick	1016.5	37	SE	3	o	1016.3	+	40	+5	SE	4	-	o	3	1	40	34	c.o	o.	o	Hours.	
Deerness (Orkney)	1012.8	39	SE	5	ad	1011.8	*	39	+3	SE	6	-	oe	5	1	40	37	ad	od	o	9.0	
Stornoway	1009.2	41	ESE	4	bc	1006.2	0	40	+2	SE	6	-	cg	6	-	48	36	bc	b.bc	by bc, cg	9.1	
Castlebay (Barra Isd.)	1007.2	45	N	2	bc	1003.7	-1	41	+2	ESE	3	-	op	4	1	46	38	b	bc	bc, op	9.6	
Glasgow	1007.7	37	ENE	4	o	1005.3	+1	36	-1	ENE	4	-	or	*	4	39	34	o	omg	chsp	0.0	
Eskdalemuir	1007.5	36	NE	4	od	1005.3	+2	36	+1	E	4	-	o	*	6	37	33	o	oe, odg	org, o	0.0	
Malin Head	1004.6	41	SE	4	bcm	999.9	0	41	+1	SE	5	-	ond	5	1	44	37	bcm	bcm	ond	5.6	
Blacksod Point	1001.9	43	E	4	cm	998.2	-2	36	-6	SE	2	S	omg	2	3	43	34	oma	cm	cm, ond	*	
Valencia	998.0	47	E	3	o	998.9	+1	44	-6	-	0	E	c	2	1	53	41	c	c, g	op, c	3.2	
Roches Point	999.9	43	ESE	4	r	1000.8	*	41	-4	E	1	-	o	3	4	47	39	d.f.m	d.f.m	dm, om	*	
Birr Castle	1000.5	41	E	2	o	999.4	*	36	-8	W	1	-	o	*	8	43	35	or	o	or, o	0.0	
Donaghadee	1003.6	41	E	5	ogm	1001.1	0	42	+3	SE	4	-	om	4	3	45	38	cm	ogm	omg, r	*	
Liverpool (Bidston)	1002.1	37	ENE	3	r	1002.8	+2	42	+6	E	2	E	og	2	7	43	36	cm	or	op	0.1	
Holyhead	1003.8	39	E	6	om	1000.6	+2	43	+3	SE	3	-	o	2	7	44	38	op, om	om	or, op, o	0.6	
Pembroke (St. Ann's)	998.6	40	ESE	3	om	1000.9	+2	44	0	S	3	SW	c	3	2	47	40	cp	opm	or, c	0.0	
Scilly (St. Mary's)	997.3	46	-	0	c	1000.2	+2	45	-2	S	1	-	b	3	0.4	48	42	c.o	c.o	bc, bw	0.2	
Falmouth	997.4	42	-	0	bcg	1001.3	+3	39	-6	S	1	-	bmw	*	15	46	38	r, oe	oe, c, or	c, bc, cw	0.0	
Jersey (St. Aubin)	999.1	46	ESE	2	op	1000.0	*	45	0	NE	1	-	o	1	7	48	44	op, o, c	op	or, o	0.0	
Portland Bill	998.4	45	E	1	c	1000.7	+1	43	0	MMW	2	-	c	3	2	45	42	o, cr	o, c	cr, bc, c	*	
Dungeness	1001.6	46	ESE	1	c	999.4	+1	45	+3	E	3	E	c	2	1	49	41	fr, c	c, bc, c	cp, c	*	
Dover	1002.5	46	S	2	m	1000.9	+1	45	+4	SE	3	-	bc	4	2	49	41	omr, od	bc, cg	m, cr, bc	0.2	
Wick	1011.9	39	SE	3	o	1010.9	-1	39	0	SE	4	SE	o	4	0.3	40	38	c, omp	omp, d	omg	*	
Nairn	1009.6	40	E	2	bc	1008.1	*	39	+2	E	2	-	cg	2	-	45	36	c, bc, c	c, bc	bcg, c	5.6	
Aberdeen	1012.0	39	SE	4	o	1010.2	0	38	0	ESE	5	-	r	4	3	40	37	odm, r	ond	or	0.0	
Leith	1008.8	39	ESE	2	o	1006.0	-1	39	+1	E	2	-	r	4	5	40	36	og, c, o	o	oe, r	*	
Tynemouth	1007.6	39	E	4	omg, r	1005.6	-1	40	+2	SE	4	-	omg, r	5	7	40	38	omr	omr	omg, r	*	
Spurn Head	1004.2	39	ESE	5	omr	1003.7	-1	39	+1	SE	6	-	af, r	5	9	39	36	omr	or	og, f	0.0	
Yarmouth	1004.2	41	SE	4	fd	1004.0	0	40	+2	SE	4	-	fd	3	3	41	37	f	fr	b, fd	0.0	
Clacton-on-Sea	1002.1	42	ESE	3	o	1001.9	0	42	+2	ENE	3	SW	o	2	2	44	39	ogm, r	ogm, d	ogm	0.0	
Nottingham	1002.4	40	E	4	r	1003.1	*	42	+5	E	3	E	mr	*	10	44	36	or	om	dm, o	0.0	
Benson (Oxon.)	1000.3	45	SE	2	bc	1001.6	+2	43	+5	SE	3	-	r	*	12	45	37	r	om	rm, rg	*	
St. Farnborough	1000.3	47	SE	3	c	1000.6	0	44	+6	S	2	-	om	*	10	47	38	omr, m, o	m, c	m, om	0.0	
London (Kew Obsy.)	1001.2	48	SE	3	om	1001.2	+1	45	+6	NE	2	-	omd	*	5	48	38	omd, omr, om, of, om, om, om			0.0	
NORTHERN EUROPE.																						
Spitsbergen	1020.4	-9	-	0	b	1021.7	+2	-	-22	-	0	*	c	*	*	14	-9					
Vardö	1015.7	28	MMW	3	b	1024.7	+2	32	+4	-	0	-	s	3	*	28	22					
Bodö	1023.1	32	E	4	b	1021.9	0	32	+5	E	2	-	b	2	-	36	25					
Christiansund	1020.0	32	E	2	b	1019.9	0	30	+5	-	0	-	b	3	-	34	25					
Skudesnaes	1016.4	36	-	0	c	1017.2	0	36	+2	-	0	-	o	1	-	39	32					
Færder (X'tania Fjord)	1019.9	32	NNE	5	o	1021.3	+2	30	+2	NE	6	-	o	2	?	32	28					
The Scaw (Skagen)	1016.8	32	NE	4	o	1017.6	+1	32	+2	ENE	4	-	m	4	1	34	25					
Blaavands Huk	1012.9	36	E	1	o	1012.2	0	36	+4	E	3	-	o	3	Trace	37	30					
Haparanda														*								
Hernösand														*								
Stockholm														*								
Wisby														*								
Karlstad														*								
FRANCE, &c.																						
The Helder	1007.8	39	E	2	m	1006.4	0	39	+2	E	2	-	f	1	Trace	39	37					
C. Gris Nez	1002.4	47	SE	2	c	1000.3	0	46	+4	ESE	2	*	c	1	Trace	55	45					
La Hève	999.9	48	E	3	o	998.9	*	45	-1	SW	3	*	r	2	6	55	45					
Brest (St. Mathieu)	998.3	48	NW	1	bc	1001.1	+3	42	-3	NE	2	*	bc	2	-	54	44					
Rochefort (Nied d'Aix)	996.8	51	E	2	o	997.6	+1	49	+6	ESE	2	*	r	*	12	54	48					
Biarritz	996.4	58	SE	2	o	998.9	+5	50	-5	WSW	4	*	o	2	-	63	48					
Paris	1001.0	55	ENE	2	bc	1001.0	+2	50	+4	SE	2	-	c	*	-	61	46					
Belfort	1005.3	54	E	4	c	1006.7	*	46	+3	E	4	*	c	*	-	62	46					
Lyons	1004.2	54	SSW	4	b	1004.0	*	52	+7	SSW	3	*	o	*	-	60	50					
Nice	1012.4	50	E	2	c	1012.2	+1	50	+2	E	3	*	o	3	Trace	59	43					
Perpignan	1000.8	57	S	4	o	999.9	0	52	+2	SE	2	S	bc	*	Trace	70	50					
Sanguinaire	*	58	SE	2	c	*	*	60	-4	E	2	*	bc	3	-	59	43					
SOUTHERN EUROPE.																						
Corunna (7 a.m.)	995.9	52	NNE	4	o	1006.7	+7	48	+3	SSW	1	-	b	1	6	52	45					
Madrid (8 a.m.)	999.8	46	SSW	2	r	1009.3	+9	43	-2	NW	1	-	b	*	13	52	39					
Lisbon (9 a.m.)																						
Gibraltar	1009.1	57	W	6	b	1012.5	*	56	-1	SW	7	*	r	2	28	59	53					
Malta (8 a.m.)	*	*	*	*	*	1014.3	+1	57	-2	E	1	-	o	1	-	61	57					
Azores (Horta, 8 a.m.)	1001.0	*	SSW	7	o																	
Madeira (Funchal)	1012.0	63	NW	3	b	1012.6	-1	59	-2	W	3	-	o	3	-	66	55					
YESTERDAY'S REPORTS																						
Venice	1013.9	53	-	0	c	1012.1	0	50	+7	NNE	2	*	o									





**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.

South Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No Warnings Issued.

Western Channel and Bay 11

Moderate or fresh South-Easterly breezes, moderating; dull, damp, some rain, mist or fog; moderate temperature.

Light variable Easterly to Southerly breezes; dull, damp, some rain, mist or fog; moderate temperature.

Same as Nos. 0 to 3.

Same as Nos. 4 and 5.

Same as Nos. 0 to 3.

Same as Nos. 4 and 5.

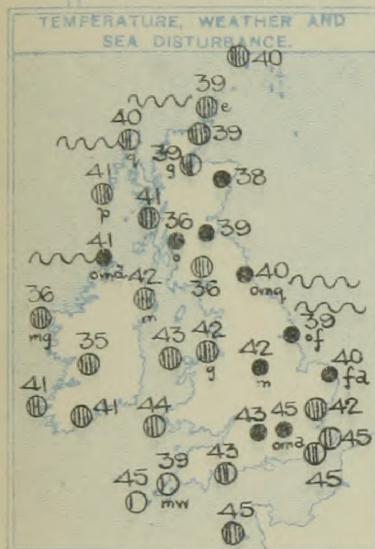
Variable breezes; sea moderate to slight; changeable, some rain, mist or fog; moderate temperature.

**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

There are some indications of the existence of another depression over Mid-Atlantic, so that the unsettled conditions are likely to be maintained.



## EXPLANATION.

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

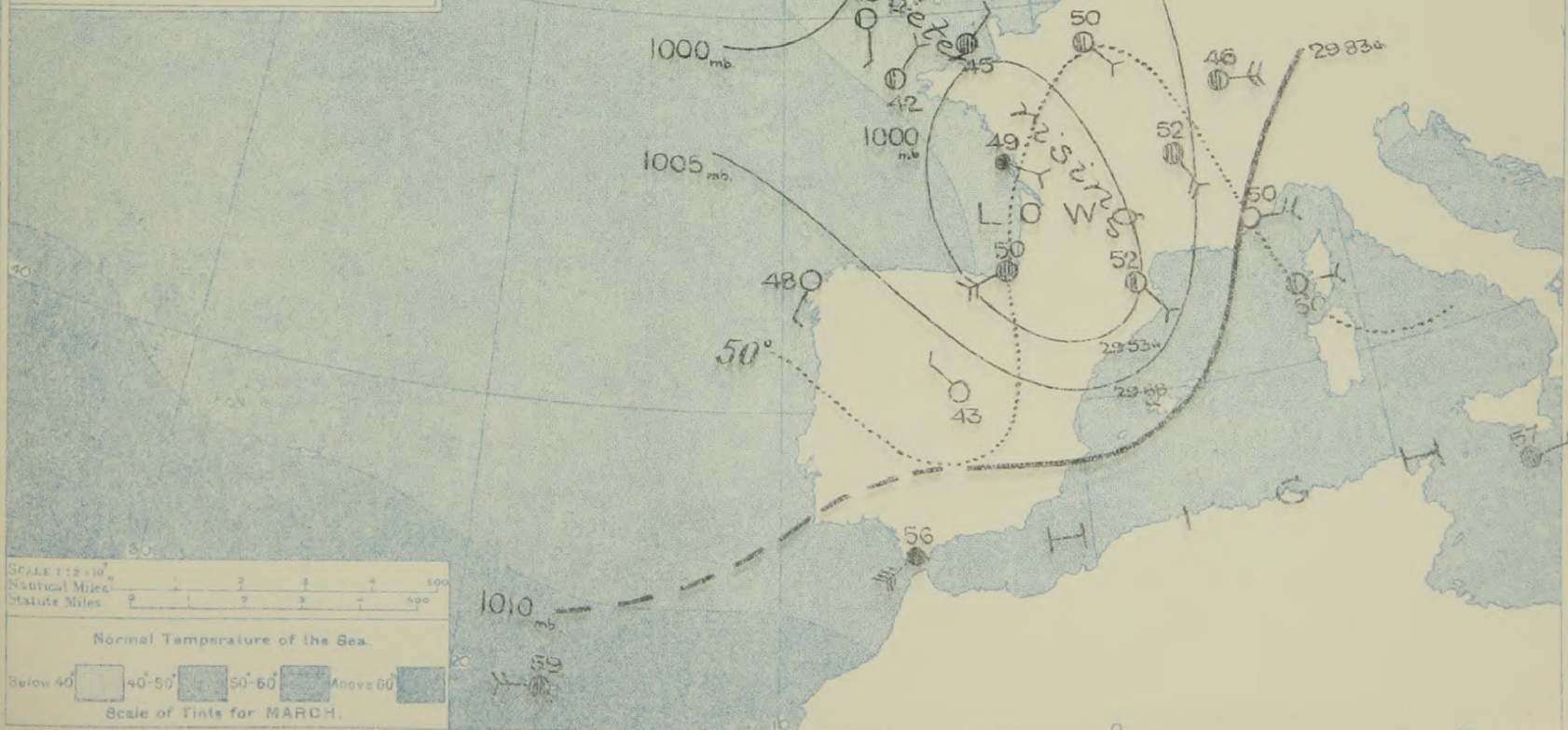
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

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

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 4/5 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	14 <sup>th</sup> MARCH AT 9 P.M. LOCAL TIME.					15 <sup>th</sup> MARCH AT 7 A.M. LOCAL TIME.													
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. 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.	Rain- fall. Milli- metres.	TEMP.			
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.		
Archangel ...	1021.0	25	-	0	0	1018.6	0	23	-	W	3	*	0	?	-	*	21		
Uleaborg ...	1022.7	25	SE	2	0	1024.6	+1	10	-13	-	0	*	b	*	-	*	*		
Helsingfors ...	1020.6	28	ENE	2	b	1021.1	+1	27	-1	ENE	2	*	0	0	Trace	*	*		
Hangö ...	1020.0	32	ESE	2	0	1020.2	0	28	-2	-	2	*	0	0	-	*	*		
Riga ...	1018.3	34	SSE	3	0	1018.6	0	34	+4	SSE	3	*	0	0	-	*	*		
Petrograd ...	1021.5	32	E	2	c	1021.5	+1	21	-7	ENE	2	-	f	*	-	37	21		
Moscow ...	1031.0	23	S	2	b	1030.3	0	14	-4	SE	2	*	0	*	-	*	10		
Kiev ...	1025.3	30	S	2	0	1024.4	0	30	0	SE	2	*	f	*	-	*	28		
Kharkov ...	1030.5	27	ESE	3	b									*	?	*	*		
Kishinev ...	1022.7	32	E	4	0	1023.1				E	2	*	0	*	?	*	30		
Elisabetgrad ...	1025.9	30	-	0	b	1025.6	0	30	+2	E	3	*	0	*	-	*	27		
Nicolaiev ...	1024.0	32	E	2	c	1024.2	*	30	-2	ENE	3	*	0	0	-	*	28		
Odessa ...						1023.5	+1	32	0	ESE	4	*	0	0	-	*	32		

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

STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
			Max.	Min.	Forenoon.	Afternoon.					Max.	Min.	Forenoon.	Afternoon.	
		mm. §	° F.	° F.			Hr.			mm. §	° F.	° F.			Hr.
Scotland.	{ Oban ... ..	-	47	37	b	bc	60	England, E.	{ Lowestoft ... ..	2	48	39	ofc	ofc	00
	{ Banff ... ..	0.1	39	35	opd	opd	00		{ Felixstowe ... ..	6	42	37	omr	op.bcf	00
	{ St. Andrews ... ..	2	39	37	*	*	00		{ Walton-on-Naze ... ..	3	42	38	omr.cb	b.c.bcf	00
									{ Southend-on-Sea ... ..	3	47	38	oc	og	02
Eng. N.E.	{ Harrogate ... ..	7	37	33	oc	o.oc	00	England, S.E.	{ Margate ... ..	2	49	38	o	c	01
	{ Skegness ... ..	8	40	36	ogr	rog	00		{ Ramsgate ... ..	3	47	38	o.c	c	00
Eng. N.W.	{ Morecambe ... ..	1	42	37	c	od	03		{ Hastings ... ..	3	49	39	o.c.c	c.o	05
	{ Blackpool ... ..								{ Eastbourne ... ..	2	48	40	o	o.b.c.o	00
	{ Southport ... ..	5	42	35	o	oc	00		{ Seaford ... ..	5	53	40	o	c	08
									{ Brighton ... ..	3	50	41	or.oc	c.o	13
Midlands.	{ Buxton ... ..								{ Worthing ... ..	6	48	40	o	c	05
	{ Leamington Spa ... ..	4	42	36	omr	ofr	00		{ Littlehampton ... ..	6	48	42	o	o.b.c.o	05
	{ Malvern ... ..	6	39	34	oc	o.c	00		{ Bognor ... ..						
	{ Ross-on-Wye ... ..	7	45	36	oc	oc	00		{ Southsea ... ..						
Wales.	{ Rhyl ... ..	7	42	37	o	o	00	England, S.W.	{ Bournemouth ... ..	1	45	40	oc	o	00
	{ Colwyn Bay ... ..	4	42	37	o	oc	01		{ Weymouth ... ..	1	45	41	3.op	o	00
	{ Llandudno ... ..	8	43	27	c	oc	00		{ Torquay ... ..	7	49	43	oc	oc	00
	{ Aberystwyth ... ..	4	45	41	o.c.o	oc	00		{ Paignton ... ..	8	46	41	or	o	00
	{ Tenby ... ..	7	48	42	b.c.o	o	06	{ Penzance ... ..							
								{ Newquay ... ..	*	45	41	oc	o	00	
								{ Ilfracombe ... ..	5	44	35	o	o	00	
								{ Weston-super-Mare ... ..	2	42	39	o	o.c	00	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall. mm. §	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.	Min. on Grass.				
	24 HOURS ENDED 9 A.M. TO-DAY.									
Greenwich (Royal Obs.) ...	95	95	0.0	48	37	39	6	odm	odp	od r
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	99	95	0.0	50	41	40	7	dr. oc	od.rm	oem
Camden Sq. (Brit. Rainfall)	99	98	0.0	48	40	40	9	or.m	om	*
Hampstead (Reservoir) ...	*	94	0.0	46	36	34	11	or	orm	om
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glesher screens.)										
S. Kensington (Roof of M.O.)	97	94	0.0							
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.		Max. Rate.				
129 Joules				31 Milliwatts.		8 Milliwatts.				

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
		° F.	° F.					
Dublin to 4 p.m.	6	42	40	39	org	gr	ogr	*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9,,	10	45	42	41	bc.r.o	o.r	or	0-0
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	3	49	38	40	om.r.c	omr.oc	om.o	*

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

16 <sup>th</sup> March, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.5	12.2	5.58
Greenwich ...	6.14	12.9	6.4
Wick ...	6.29	12.21	6.16
Valencia ...	6.55	12.50	6.45

## NOTES ON YESTERDAY'S WEATHER.

Northern Scotland and parts of Ireland had fine weather, the Hebrides returning more than nine hours of sunshine. Elsewhere the day was dull and damp, with rain, mist or fog very general. Temperature was rather 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. gale; 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 4s. per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Terminals in London.

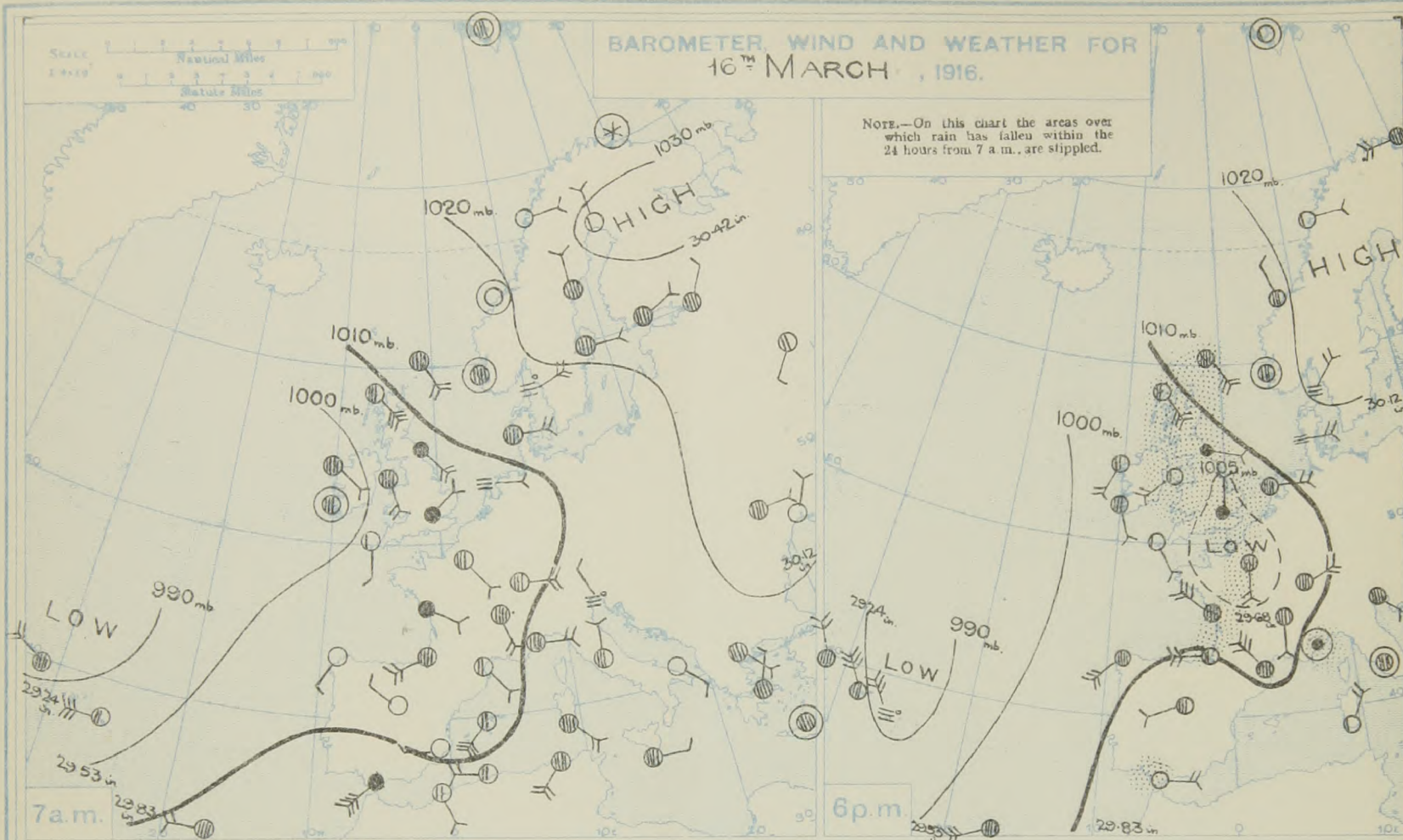


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 77

Friday,  
17th March.

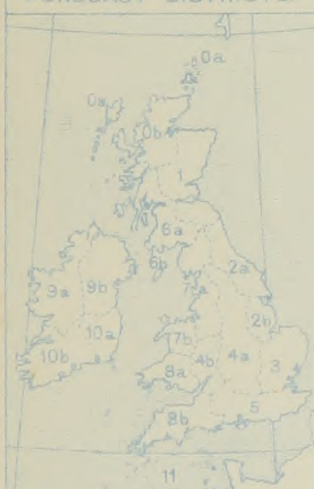
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	1015.5	40	SE	5	om	1014.7	+	40	+	SSE	5	-	omd	5	1	41	37	o	omd	omd	Hours.
Deerness (Orkney) ...	1011.2	40	ESE	7	ce	1010.8	+	40	+1	SE	5	-	m	4	3	41	39	od	d.oe	sem	4.0
Stornoway ...	?	43	SE	5	bcq	1009.3	+1	38	-2	N	1	-	cy	1	1	46	38	cpq	bcq	bc.oz	4.0
Castlebay (Barrisd.) ...	1005.0	43	ESE	4	o	1008.8	+1	44	+3	SE	4	SE	omd	5	2	44	40	op.r	r.op.o	abc.oe	0.0
Glasgow ...	1007.1	40	ENE	2	omg	1011.0	+2	36	0	ENE	1	-	om	*	2	41	35	rsp.om	omg	omd.p.o	0.0
Eskdalemuir ...	1007.6	37	N	3	or	1010.7	+2	35	-1	-	0	-	o	*	13	39	34	o.or	o.c.or	or.o	0.0
Malin Head ...	1003.8	44	S	3	cm	1008.6	+2	44	0	SSE	3	S	cm	2	0.3	46	38	om	bcm	cm	1.0
Blacksod Point ...	1002.3	44	SSW	3	bcm	1006.4	+3	43	+7	S	3	S	bc	3	-	45	36	cm	bcm	bcm.bc	*
Valencia ...	1002.6	49	SSE	2	c	1006.3	+1	43	+2	E	3	SW	c	*	-	54	39	c	c.bcr	c.b.c	5.7
SCOTLAND.																					
Roche's Point ...	1005.0	47	SE	1	c	1008.6	+	44	+3	ENE	2	-	f	3	1	49	41	o.b.c.c	c.b.c	ofe	*
Birr Castle ...	1004.4	46	SSE	1	c	1008.5	+	37	+2	SE	1	-	bc	*	1	49	35	c	cp	b.c.c	0.9
Donaghadee ...	1005.4	44	SSE	3	cm	1010.5	+2	42	0	S	2	-	cm	2	0.1	47	41	cm	cm	om	*
Liverpool (Bidston) ...	1006.3	43	E	1	m	1010.8	+2	35	-7	-	0	-	f	1	-	48	33	ag	ag	of	0.0
Holyhead ...	1005.6	45	SW	3	by	1010.3	+3	39	-4	SW	2	-	fe	1	0.1	50	38	c.b.c	b.c.b	bo.ife	3.0
Pembroke (St. Ann's) ...	1006.6	45	S	1	bc	1010.0	+2	43	-1	SE	2	S	cm	2	0.1	48	38	bc	bc	f.c	7.7
IRELAND.																					
Scilly (St. Mary's) ...	1005.2	50	SSE	2	br	1008.0	0	47	+2	SE	3	SE	ag	3	-	54	44	br	br	br.c.om	10.5
Falmouth ...	1005.8	48	SW	2	b	1009.6	+2	46	+7	S	1	-	om	*	-	54	37	bm.b.c	c.b	bm.c.o	8.2
Jersey (St. Aubin) ...	1004.9	47	NW	3	o	1011.2	+	44	-1	W	1	-	fe	1	0.1	48	42	op.o	o	bc.ife	0.0
Portland Bill ...	1004.5	47	WNW	3	c	1011.4	+1	39	-4	ENE	2	SW	bcf	3	-	50	37	c.o	c.b.c.c	c.bcf	*
Dungeness ...	1003.6	49	E	2	op	1009.6	+3	46	+1	NNE	1	-	fe	1	0.4	52	44	c.b.c	bc.op	op.ife	*
Dover ...	1004.6	49	S	3	o	1009.9	+4	44	-1	WNW	2	-	m	2	1	57	44	bc.c.b	bc.oe	d.opm	5.2
ENGLAND.																					
Wick ...	1010.6	41	SE	4	o	1013.6	+1	41	+2	SE	3	-	r	5	4	41	38	omd	omdpg	omr.pd	*
Nairn ...	1008.4	41	E	1	omg	1009.9	+	37	-2	-	0	-	om	1	10	43	36	ag	ag	p.cur	0.0
Aberdeen ...	1010.6	40	SE	4	omd	1010.3	0	40	+2	NW	1	-	om	4	8	40	37	omr	om	omr	0.0
Leith ...	1006.7	40	E	1	r	1010.5	+1	37	-2	SW	1	SW	c	4	18	41	36	r	r	r.c.c	*
Tynemouth ...	1007.1	39	ESE	2	ofr	1009.7	+1	39	-1	NNE	2	-	om	3	6	40	38	omr	ofr	omd	*
Spurn Head ...	1005.0	40	SE	4	f	1009.3	+1	39	0	NW	2	-	fe	5	2	40	38	f	f	f	0.0
WALES.																					
Yarmouth ...	1005.0	43	SE	3	bc	1010.3	+3	42	+2	ESE	1	-	om	1	Trace	46	39	of.bcm	bcm	bcm.od	3.8
Clacton-on-Sea ...	1004.1	45	ENE	2	o	1009.7	+5	43	+1	WNW	2	-	o	1	1	48	40	ag.bcm	bcm.c.o	bcgm	5.2
Nottingham ...	1005.6	42	N	2	r	1010.3	+	37	-5	WNW	1	-	f	*	12	42	37	r	rm	rm	0.0
Benson (Oxon.) ...	1004.8	44	N	2	r	1011.2	+3	46	-3	NW	2	-	m	*	13	45	40	rm	rm	rm	*
St. Farnborough ...	1004.0	46	NW	1	r	1010.5	+3	42	-2	W	1	-	om	*	11	46	42	rm.om	mr	mr.om	0.0
London (Kew Obs.) ...	1004.1	48	N	2	omr	1011.0	+5	42	-3	WNW	1	-	om	*	8	50	42	omd.of.ond	omd.om.omr	omr.om	0.0
NORTHERN EUROPE.																					
Spitsbergen ...	1024.2	-15	-	0	b	1025.9	+6	-25	-21	S	1	+	b	*	*	-8	-31	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.17 a.m.  240 metres NW 12 miles per hour			
Vardo ...	1023.3	30	W	4	o	1021.7	-2	38	-4	SW	2	-	o	1	*	32	16				
Bodö ...	1024.3	32	E	2	b	1021.3	0	34	+2	E	2	-	b	2	-	37	30				
Christiansund ...	1019.3	36	NNW	1	c	1020.3	0	37	+7	-	0	-	c	3	-	39	30				
Skudesnaes ...	1017.9	39	-	0	c	1018.6	0	37	+1	S	2	-	o	2	-	41	36				
Færder (N. of Oslo) ...	1024.6	32	NE	4	o	1024.8	+2	30	0	ENE	2	-	o	1	-	32	30				
The Sözw (Skagen) ...	1020.6	34	NE	3	m	1022.6	+1	32	0	ESE	3	-	o	3	-	34	32	RAINFALL Equivalents of Millimetres in inches.			
Blaavands Huk ...	1014.4	36	E	3	m	1017.0	+2	34	-2	ESE	3	-	f	3	-	39	32				
Haparanda ...																					
Hernösand ...																					
Stockholm ...																					
Wisby ...																					
Karlstad ...																					
FRANCE, & C.																					
The Helder ...	1008.3	46	E	3	o	1010.9	+1	41	+2	SE	2	-	f	1	Trace	46	39	mm.	Inches.	mm.	Inches.
C. Gris Nez ...	1004.0	51	SSE	3	r	1009.1	+3	45	-1	S	1	*	f	1	1	59	45				
La Hève ...	1004.8	46	NW	2	f	1010.6	+	44	-1	WNW	3	*	f	2	10	50	43				
Brest (St. Mathieu) ...	?	52	W	1	b	?	0	43	+1	ESE	3	*	c	3	-	52	41				
Rochefort (St. Aik) ...	1005.6	48	NW	5	o	1012.2	+1	45	-4	SE	3	*	o	*	3	54	46				
Biarritz ...	1010.4	52	W	4	bc	1010.4	-1	44	-6	ESE	3	*	o	2	11	54	43				
Paris ...	1004.8	52	SE	3	o	1011.4	+4	48	-2	S	1	-	o	*	Trace	55	45				
Belfort ...	1006.1	55	ENE	4	o	1015.1	+	48	+2	W	4	*	c	*	-	59	45				
Lyons ...	1008.8	50	S	2	o	1014.6	+	45	-7	-	0	*	bc	*	-	60	42				
Nice ...	1011.7	46	-	0	r	1015.4	+3	46	-4	-	0	*	c	3	14	54	43				
Perpignan ...	1007.3	55	NW	5	o	1015.8	+3	41	-11	-	0	SW	bc	*	-	73	37				
Sanguinaire ...	*	57	SE	3	r	*	+	50	0	E	3	*	r	2	2	59	45	10	0.39	35	1.34
SOUTHERN EUROPE.																					
Corunna (7 a.m.) ...	1008.0	57	SW	5	o	999.9	-5	55	+7	S	8	-	o	*	?	59	48	11	0.43	36	1.42
Madrid (8 a.m.) ...	1011.4	52	WSW	2	c	1016.4	+2	43	0	-	0	-	o	*	?	54	41	12	0.47	37	1.46
Lisbon (7 a.m.) ...																		13	0.51	38	1.50
Gibraltar ...	1013.2	54	NW	3	b	1014.9	+	52	-4	E	4	*	b	1	2	65	49	14	0.55	39	1.54
Malta (8 a.m.) ...	*	*	*	*	*	1017.9	+2	57	0	NW	3	-	b	1	-	63	57	15	0.59	40	1.58
Azores (Horta, 8 a.m.) ...	992.3	*	NW	6	c							*						16	0.63	41	1.61
Madeira (Funchal) ...	1007.8	64	WSW	5	o	1006.3	0	59	0	W	3	SW	o	3	5	64	55	17	0.67	42	1.65
YESTERDAY'S REPORTS																					
15th, 8 P.M., G.M.T.																					
16th, 7 A.M., G.M.T.																					
ITALY.																					
Venice ...	1012.7	52	N	1	b	1013.2	0	50	0	NNW	1	*	m	2	-	*	*	Trace	*	*	*
Turin ...	1012.7	48	-	0	o	1013.9	0	45	0	-	0	*	b	*	1	*	*				
Florence ...	1013.9	52	-	0	o	1013.2	0	48	-6	E	1	*	b	*	-	*	*				
Pesaro ...	1013.2	55	WSW	2	c	1013.3	0	48	-4	S	1	*	b	2	-	*	*				
Leghorn ...						1013.3	0	52	-3	-	0	*	b	1	-	*	*				
Rome ...	1014.7	52	NE	2	c	1013.7	0	48	-9	N	2	*	c	*	-	*	*				
Brindisi ...	1014.9	54	S	1	b	1013.4	0	52	0	SE	1	*	b	2	Trace	*	*				
Cagliari ...	1014.4	61	SE	5	b	1011.3	0	59		SE	3	*	o	3	-	*	*				
Palermo ...	1015.6	57	S	2	f							*			-	*	*				
												*			-	*	*				





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

Light variable breezes, mainly Easterly  
to South-Easterly, freshening later; dull, damp,  
some rain, mist or fog; moderate temperature.

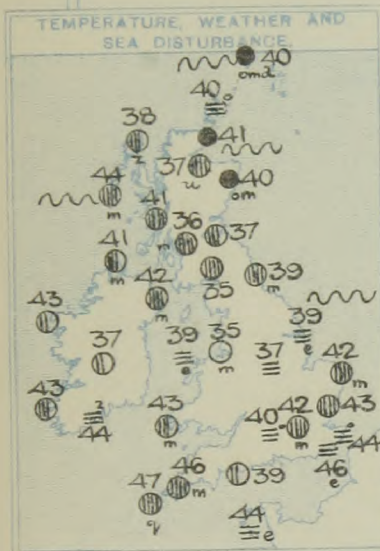
Increasing South-Easterly and Southerly winds;  
sea moderate to rough; dull, some rain, mist or fog;  
moderate temperature.

**FURTHER OUTLOOK.**



GENERAL INFERENCE.

Gradually the conditions will come more under the influence of a depression at present far beyond our south-west coasts.



EXPLANATION.

**BAROMETRE.**—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.

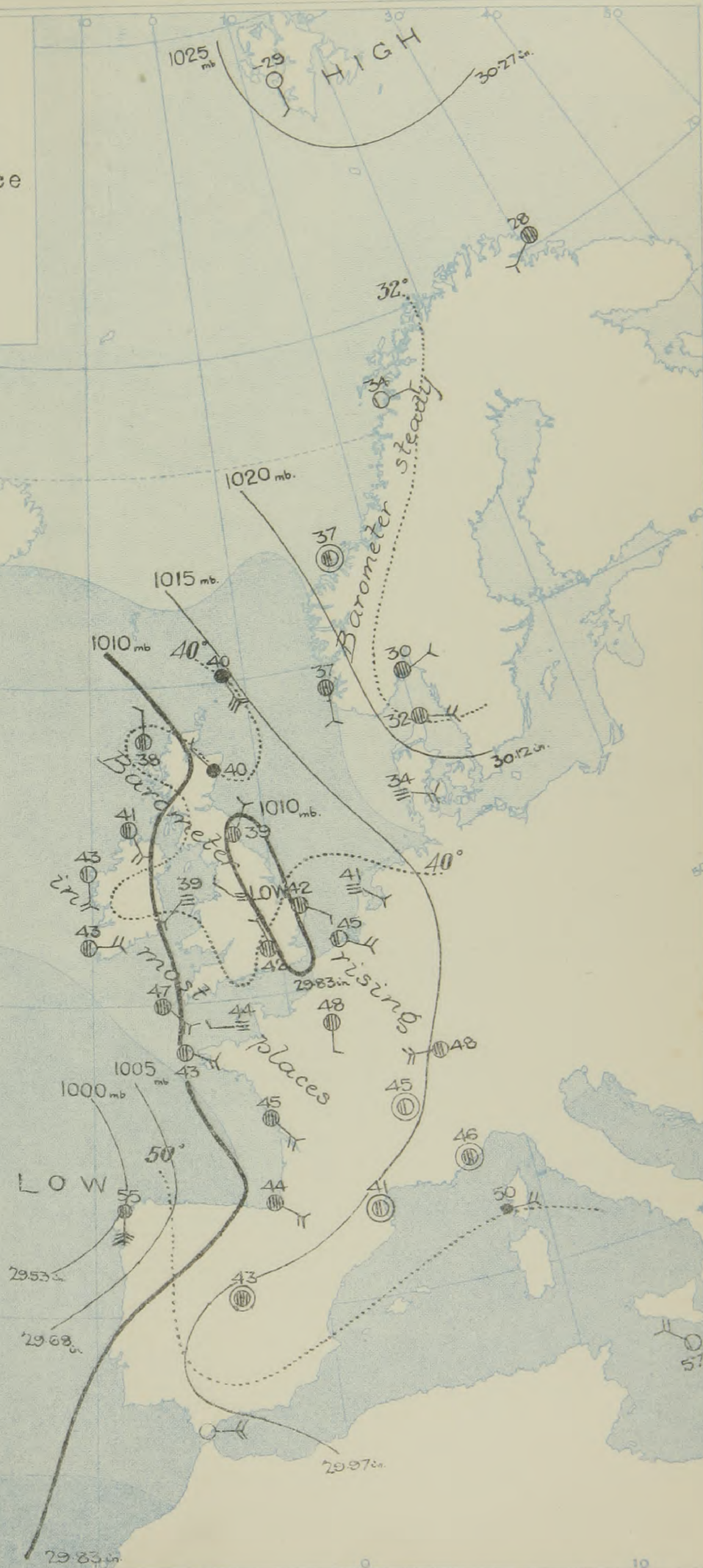
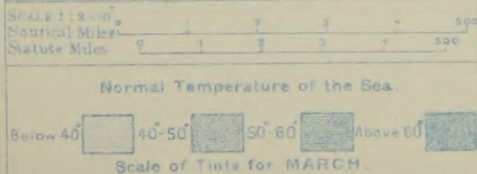
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.

**SEA DISTURBANCE.**—Rough High

Inches.  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	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.	
			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.
Archangel ...	1023.6	27	N	3	0	-	-	-	-	-	-	-	-	-	?	*	-
Uleaborg ...	-	12	-	0	-	1030.9	+3	3	-7	NE	2	*	b	-	-	*	*
Helsingfors ...	1023.1	30	ENE	2	0	1024.7	+2	30	+3	ENE	2	*	o	o	-	*	*
Hango ...	1022.5	30	ENE	2	0	1023.6	+1	30	+2	ESE	3	*	o	o	-	*	*
Riga ...	1019.1	34	SE	1	0	-	-	-	-	-	-	*	-	-	?	*	*
Petrograd ...	1022.9	30	ENE	2	0	1025.0	+2	27	+8	NE	1	-	o	-	-	32	21
Moscow ...	1025.9	23	SW	2	c	1028.7	-1	9	-5	SW	1	*	bc	*	-	*	7
Kiev ...	1023.8	30	SE	3	r	-	-	-	-	-	-	*	-	*	?	*	-
Kharkov ...	1023.3	28	ESE	2	c	1028.7	0	23	-	E	2	*	b	*	-	*	*
Kishinev ...	1023.3	34	SE	3	o	1023.1	0	32	-	ESE	2	*	o	*	-	*	32
Elisabetgrad ...	1024.8	30	SE	2	0	1023.7	0	32	+2	E	2	*	m	*	-	*	28
Nicolaiev ...	1023.1	34	NE	2	3	1021.9	*	28	-2	NNE	2	*	b	o	-	*	27
Odessa ...	1023.9	32	ENE	2	0	1022.4	-1	32	0	ENE	2	*	o	o	-	*	32

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		°F.	°F.				England, E.		°F.	°F.			
Oban ...	0.3	44	39	o	o	00	Lowestoft ...	-	49	40	ofc bc	bc c	5.1
Banff ...	0.2	40	37	opd	od	00	Felixstowe ...	1	47	39	of bc	bc o	4.7
St. Andrews ...	*	*	*	*	*	00	Walton-on-Naze ...	0.2	46	40	bf, bc, bc	bc, c, bc	4.3
England, N.E.							Southend-on-Sea ...	-	57	40	bz b bc	bcc oz	4.9
Harrogate ...	16	39	35	ro	o	00	Margate ...	0.1	57	42	bc	bc	5.6
Skegness ...	0.1	39	38	og	gm	00	Ramsgate ...	-	57	43	bc	bc	5.7
England, N.W.							Hastings ...	2	51	46	of bc	od o	1.0
Morecambe ...	7	44	39	ol	od	00	Eastbourne ...	2	49	44	o	obc o	0.2
Blackpool ...	-	-	-	-	-	00	Seaford ...	3	55	45	c o	or	0.1
Southport ...	1	47	37	oc o	o c o	00	Brighton ...	3	51	44	o	or	0.0
Midlands							Worthing ...	5	51	45	o	od	0.0
Buxton ...	-	-	-	-	-	00	Littlehampton ...	11	50	41	odr	d r	0.0
Leamington Spa ...	15	44	37	ofr	ofr	00	Bognor ...	8	50	43	or	or	0.0
Malvern ...	2	45	38	o	o	10	Southsea ...	-	-	-	-	-	-
Ross-on-Wye ...	2	49	40	o	o	00	Bournemouth ...	1	50	41	od	od	0.0
Wales.							Weymouth ...	1	51	41	3 bc c	c oz	0.0
Rhyl ...	2	52	37	b	b	4.2	Torquay ...	0.1	54	35	b	b bc	8.5
Colwyn Bay ...	2	46	37	bc	bc	4.8	Paignton ...	-	55	31	b	bc	8.1
Llandudno ...	2	50	36	b	b bc	6.1	Penzance ...	0.3	54	39	f bc	b	9.0
Aberystwyth ...	-	51	42	oc b	oc	7.5	Newquay ...	0.3	51	37	b	b	7.6
Tenby ...	1	51	40	b	b	6.8	Ilfracombe ...	0.2	50	39	b	b bc	8.5
							Weston-super-Mare ...	-	51	37	m b	b bc	3.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	77	87	0.3	54	42	41	5	0	or
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*
Westminster (St. James's Pk.) ...	80	89	0.0	54	43	42	3	m	hired
Camden Sq. (Brit. Rainfall) ...	82	88	0.2	53	41	41	4	og o	o
Hampstead (Reservoir) ...	*	97	0.3	49	38	36	4	or	om
Richmond Park ...	*	*	0.0	*	*	*	*	*	*
Kew. (See front page.) ...	*	*	0.0	*	*	*	*	*	*
(Greenwich and Camden Square air temperatures are in Glaisher screens.)									
S. Kensington (Roof of M.O.) ...	81	91	0.0						
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.									
Total.				Average Rate.		Max. Rate.			
267 Joules				6.3 Milliwatts.		20 Milliwatts.			

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		Night Min. on Grass.	WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.		Night.	Fore- noon.	
Dublin to 4 p.m.	mm §	°F.	°F.	°F.	or c	c b	bc
Darwen to 9 p.m.	10	48	38	37	*	*	*
Manchester "	15	44	41	*	or m	or	or m
Birmingham "	*	*	*	*	*	*	*
Oxford to 8 p.m.	*	*	*	*	*	*	*
Teignmouth to 9 "	*	*	*	*	*	*	*
Plymouth "	*	*	*	*	*	*	*
S. Kensington (Museum Grounds to 6 p.m.)	3	51	44	39	om, o, om	om	om, p

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> March, 1916.	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.5	G.M.T. 12.2	G.M.T. 5.58
Greenwich ...	6.2	12.1	5.50
Wick ...	6.12	12.9	6.6
Valencia ...	6.15	12.8	6.7
	6.26	12.21	6.16
	6.23	12.30	6.18
	6.53	12.50	6.46
	6.50	12.49	6.48

## NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° at many stations, 55°  
to 57° in the south-east. Damp weather was general,  
rain, mist or fog in most places. Sunshine was very  
variable, none in several localities, 10½ 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;  
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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United Kingdom on payment of £1 per annum, for postage and wrappers.  
Single copies 1d. at M.O. and at the bookstalls at certain Railway  
Terminals in London.

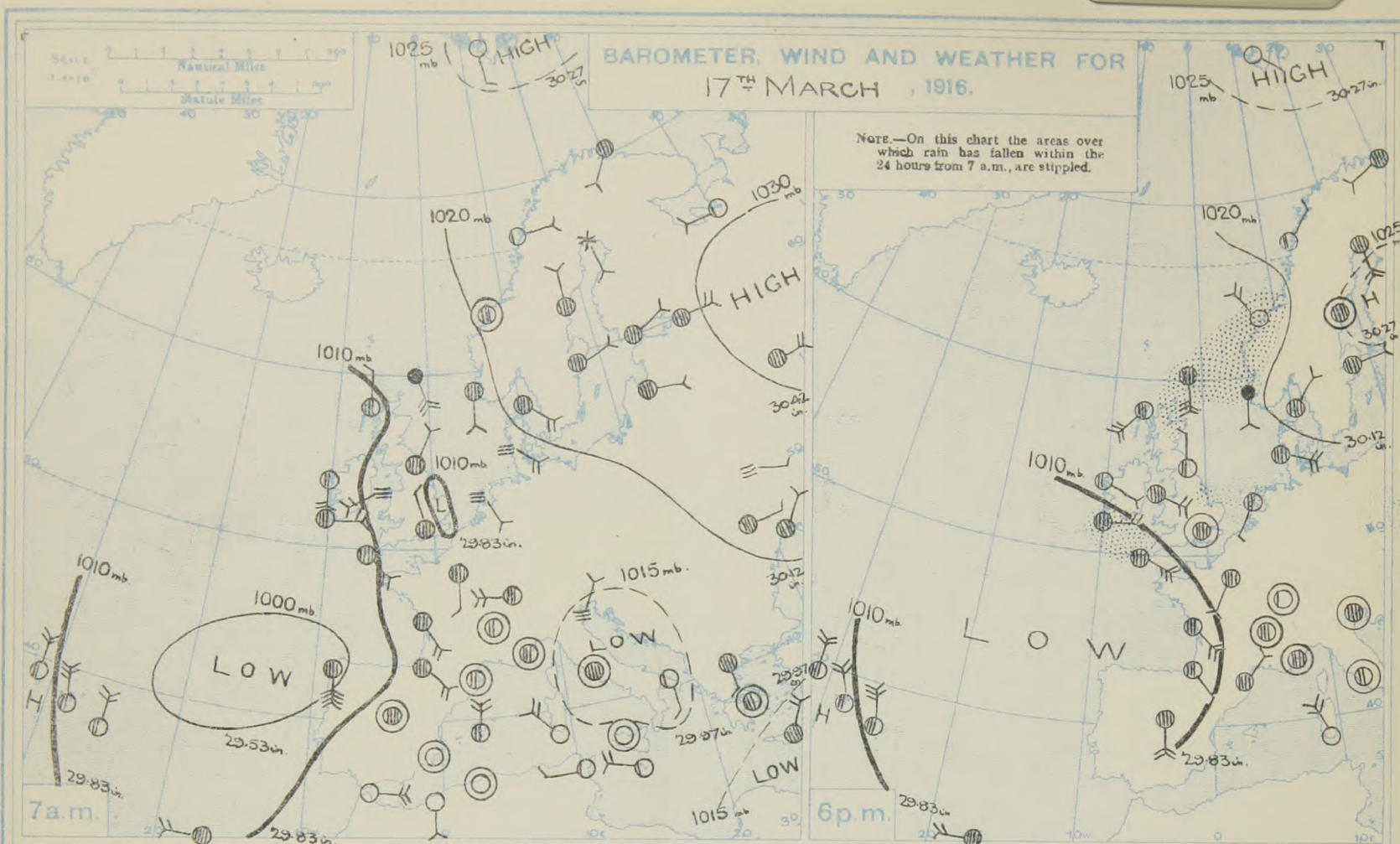


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 78

Saturday,  
18th March

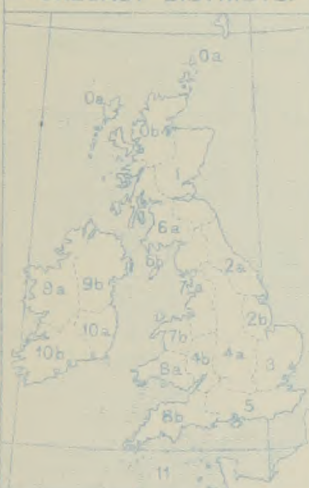
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.												Max.	Min.	Morning	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1012.7	40	S	5	om	1016.8	+1	41	+1	-	0	-	om	0	13	42	38	omr	omr	om	Hours.
	Deerness (Orkney) ...	1012.2	41	SW	3	c	1015.9	*	39	-1	S	3	E	bc	3	5	42	38	mr	rm	c bc	0.0
	Stornoway ...	1012.0	46	SW	5	c	1014.7	+1	41	+3	NW	1	-	by	1	-	50	37	bcy	bc cy	c bc	6.6
	Castlebay (Barraisd.) ...	1011.7	45	S	3	bcm	1014.8	+1	43	-1	SSE	2	-	om	3	Trace	46	41	om	c bc	bc bcm	3.0
	Glasgow ...	1013.5	45	WSW	1	cy	1015.9	+1	35	-1	E	1	SW	cf	*	0.1	51	34	c bc	c bc	fe c	2.0
	Eskdalemuir ...	1014.2	42	-	0	bc	1015.8	+1	26	+1	N	3	-	cy	*	-	50	32	c bc	c bc	bc c	3.9
	Malin Head ...	1011.7	45	ESE	3	bcy	1014.0	+1	43	+2	SE	2	-	om	1	-	49	40	bc	bc	am	7.7
	Blacksod Point ...	1010.6	46	ESE	2	bc	1011.2	-1	42	-1	ENE	2	-	cm	3	-	49	40	bc	bc	bc cm	*
	Valencia ...	1007.3	48	E	3	op	1005.5	-1	46	+3	NE	3	E	ogz	3	1	52	43	c o	c op	op op	0.3
	Roche's Point ...	1009.8	46	E	4	o	1008.3	*	45	+1	E	4	-	o	4	2	47	43	fe om	om	om om	*
	Birr Castle ...	1010.8	48	SE	1	o	1010.4	*	42	+5	NE	2	-	m	*	-	50	36	c	o	z	1.3
	Donaghadee ...	1012.8	43	SSE	3	om	1014.0	0	44	-1	NE	2	-	f	1	-	48	39	om	om	om f	*
	Liverpool (Bidston) ...	1013.1	44	N	1	o	1013.1	0	44	+6	ENE	3	E	o	2	-	48	35	f	bm	om	4.4
	Holyhead ...	1012.3	44	ESE	4	cy	1011.3	-1	43	+4	E	5	-	fe	4	Trace	52	39	c bc c	c bc om	bfe	2.1
	Pembroke (St. Ann's) ...	1011.3	44	ENE	2	cy	1008.7	-2	43	0	E	4	-	om	3	0.1	47	43	bcm	c o	om	0.5
	Scilly (St. Mary's) ...	1007.0	47	ESE	5	o	1004.0	0	48	+1	ESE	5	SE	omgr	6	3	51	45	c c	o	omgr	0.5
	Falmouth ...	1009.4	45	E	3	og	1006.5	+2	46	0	E	4	-	od	*	3	51	44	c bc	c o	omd	1.2
	Jersey (St. Aubin) ...	1010.7	50	E	3	b	1008.0	*	47	+3	E	3	-	op	3	0.1	51	43	of c	a c b	op	2.5
	Portland Bill ...	1012.1	41	E	3	f	1008.0	-2	45	+6	E	4	SE	cm	3	-	45	38	of	of	of cm	*
	Dungeness ...	1013.8	45	-	0	f	1012.8	-1	43	-3	NE	3	-	f	2	-	48	41	f c	f	f	*
	Dover ...	1014.4	45	SE	1	f	1013.9	0	43	-1	NE	1	-	f	2	0.1	48	41	f c	f	m f	0.0
NORTHERN EUROPE.	Wick ...	1012.8	43	-	0	o	1016.0	+1	39	-2	S	1	-	m	4	5	45	35	omgr	omg	c bma	*
	Nairn ...	1012.8	44	-	0	bcm	1015.8	*	31	-6	-	0	-	bcm	0	-	48	29	c bc	bc cm	bc m	0.2
	Aberdeen ...	1013.8	41	-	0	cm	1016.7	+1	33	-7	SE	1	-	cm	3	3	47	33	om c	c o cm	cm bcm	1.1
	Leith ...	1013.1	46	SW	1	c	1015.5	+1	35	-2	NE	1	N	c	3	-	48	35	c bc	c o bc	c bcm	*
	Tynemouth ...	1013.9	41	N	1	bcm	1016.0	+1	36	-3	NW	1	-	f	3	-	45	35	b	c b	f	*
	Spurn Head ...	1014.0	42	NE	2	cm	1015.6	0	40	+1	E	2	-	fe	5	0.3	44	38	cm	f cm	om f	0.9
	Yarmouth ...	1012.2	42	NE	1	o	1015.2	0	41	-1	E	1	-	f	1	0.2	46	39	f	f	f	0.0
	Clacton-on-Sea ...	1014.1	44	W	1	o	1014.4	-1	43	0	ENE	2	-	f	1	-	46	40	ogm	om	ogm f	0.0
	Nottingham ...	1013.3	46	ENE	1	o	1014.2	*	38	+1	ENE	3	E	ome	*	0.1	51	36	f o bcm	bcm	c om	2.6
	Benson (Oxon.) ...	1013.0	45	N	1	b	1012.7	-1	44	+4	E	3	SE	bc	*	-	49	37	om	bc b	bc om	*
Sth Farnborough ...	1012.8	45	ESE	1	c	1012.3	-2	42	0	NE	2	-	om	*	-	48	42	om	om c	cm om	0.3	
London (Kew Obs.) ...	1013.7	48	-	0	om	1013.1	-1	44	+2	E	4	-	om	*	Trace	50	42	om o	c om	om	0.0	
FRANCE, &c.	Spitsbergen ...	1028.0	-20	SE	1	b	1025.3	0	-22	+7	S	1	*	b	*	-	17	-31	*	*	*	*
	Vardö ...	1019.8	32	WSW	2	o	1020.1	+3	22	-5	NE	2	-	S	2	*	32	28	*	*	*	*
	Bodö ...	1021.7	37	NE	1	bc	1021.1	0	36	+2	E	1	-	b	1	-	37	22	*	*	*	*
	Christiansund ...	1017.5	37	NW	3	b	1017.1	+2	37	0	W	3	-	o	3	3	45	26	*	*	*	*
	Skudesnaes ...	1019.1	37	S	2	r	1021.3	+1	34	-3	E	2	-	o	3	?	39	32	*	*	*	*
	Fæder (Kjellerfjord) ...	1025.5	30	E	2	o	1025.2	+1	30	0	ENE	1	-	o	0	-	30	28	*	*	*	*
	The Scaw (Skagen) ...	1023.5	32	NE	2	o	1023.2	+1	32	0	ESE	2	-	o	2	-	32	30	*	*	*	*
	Blaavands Huk ...	1018.7	36	ESE	4	o	1021.1	0	34	0	ESE	3	-	f	3	-	36	32	*	*	*	*
	Haparanda ...	1024.4	28	S	4	o	1023.9	+2	23	+20	SE	2	-	o	*	-	23	5	1	0.04	26	1.02
	Hernösand ...	1025.6	28	-	0	o	1024.3	0	28	+3	-	0	-	o	*	-	28	25	2	0.08	27	1.06
SOUTHERN EUROPE.	Stockholm ...	1024.6	32	E	2	o	1025.1	+2	30	+2	ENE	2	-	o	*	-	32	28	3	0.12	28	1.10
	Wisby ...	1022.0	34	NNE	2	o	1023.7	+2	32	0	-	0	-	o	*	-	34	30	4	0.16	29	1.14
	Karlstad ...	1024.8	30	-	0	o	1025.3	0	30	+2	-	0	-	o	*	-	32	25	5	0.20	30	1.18
	The Helder ...	1014.4	46	SW	1	bc	1017.1	0	41	0	SE	1	-	f	1	Trace	57	37	6	0.24	31	1.22
	C. Gris Nez ...	1014.9	45	S	4	f	1012.7	+1	47	+2	SE	4	*	c	1	Trace	50	41	7	0.28	32	1.26
	La Hève ...	1013.0	44	-	0	m	1012.5	*	46	+2	ESE	4	*	o	2	-	50	41	8	0.32	33	1.30
	Brest (St. Mathieu) ...	1006.7	50	ESE	5	o	1005.1	+2	49	+6	ESE	3	*	bc	4	Trace	54	43	9	0.35	34	1.34
	Rochefort (Ile d'Aix) ...	1009.2	53	SE	4	c	1009.2	+3	49	+4	SSE	4	*	o	*	-	57	45	10	0.39	35	1.38
	Biarritz ...	1008.2	63	SE	1	c	1008.7	+2	61	+7	SSW	3	*	c	1	-	64	57	11	0.43	36	1.42
	Paris ...	1014.4	52	SW	2	c	1013.5	+1	45	-3	ESE	2	S	o	0	Trace	57	39	12	0.47	37	1.46
ITALY.	Belfort ...	1016.3	52	-	0	b	1018.9	*	45	-3	E	4	*	c	*	-	56	39	13	0.51	38	1.50
	Lyons ...	1015.0	53	-	0	c	1017.2	*	47	+2	SE	2	*	b	*	-	62	45	14	0.55	39	1.54
	Nice ...	1017.7	50	-	0	o	1024.3	+2	47	+1	-	0	*	c	2	-	57	48	15	0.59	40	1.58
	Perpignan ...	1013.3	54	NE	2	o	1015.1	+3	46	+5	NW	1	SW	o	*	-	61	41	16	0.63	41	1.61
	Sanguinaire ...	*	54	W	2	bc	*	*	50	0	SE	2	*	o	3	-	66	45	17	0.67	42	1.65
	Corunna (7 a.m.) ...	1009.5	59	S	4	o	1012.4	0	48	+5	SSE	1	-	o	*	1	59	43	18	0.71	43	1.69
	Madrid (8 a.m.) ...	1009.5	59	S	4	o	1012.4	0	48	+5	SSE	1	-	o	*	1	59	43	19	0.75	44	1.73
	Lisbon (7 a.m.) ...	1009.5	59	S	4	o	1012.4	0	4													





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. North Cone. South Cone. North Cone.

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

Light variable breezes, mainly Easterly to South-Easterly; much mist or fog, local showers; moderate temperature.

Easterly to South-Easterly breezes, moderate or fresh at times; dull, some rain, mist or fog; moderate temperature.

Same as Nos 0 to 4.

Same as No. 5.

Same as Nos. 0 to 4.

Same as No 5.

Easterly to Southerly and South-Westerly breezes, fresh at times; sea moderate to rough; dull, some rain, mist or fog; moderate temperature.

Millibars

1050

1040

1030

1020

1010

1000

990

980

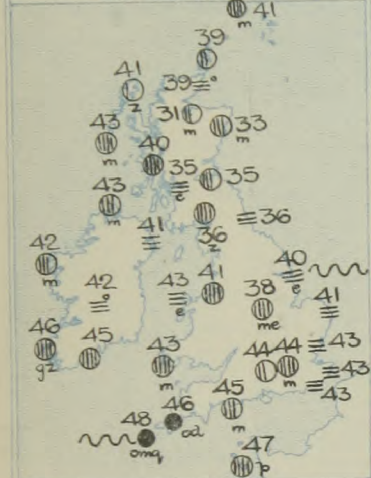
970



GENERAL INFERENCE.

No decided modification  
in the general weather conditions  
is indicated.

TEMPERATURE, WEATHER AND  
SEA DISTURBANCE.



EXPLANATION.

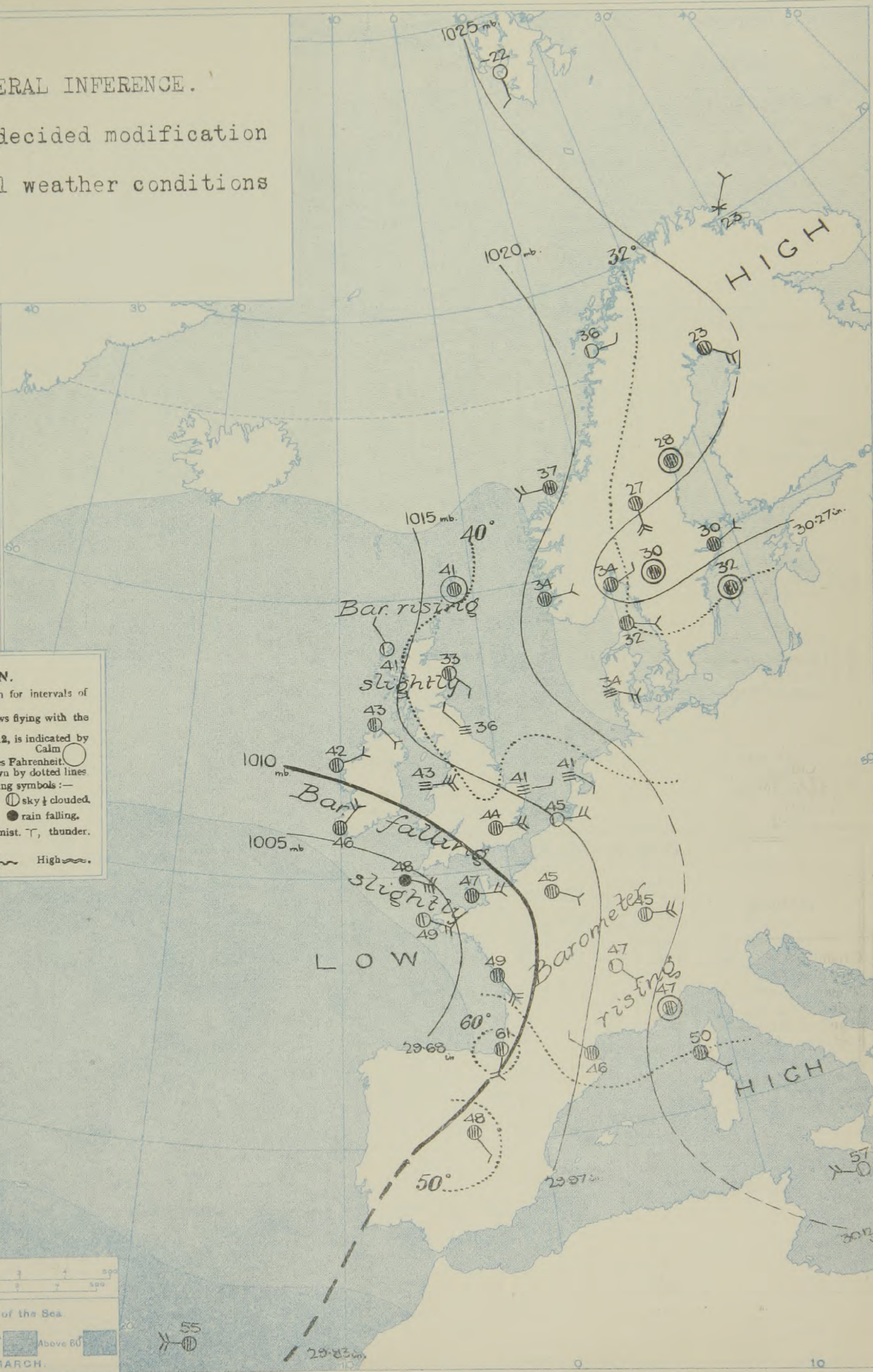
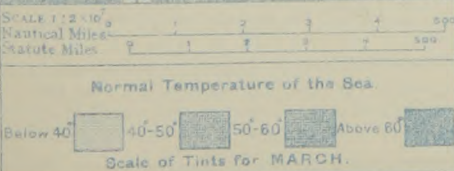
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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.





# 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.										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.				
			Dir.	Force 0-12.			Milli-bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.							
Archangel ...	1027.5	27	W	2	c	1029.1	+1	12	-	W	2	*	b	0	-	*	10		
Uleaborg ...	1031.0	20	-	0	b	1028.8	+1	16	+13	SE	2	*	b	*	-	*	*		
Helsingfors ...	1027.9	30	ENE	3	o	-	0	28	-2	ENE	2	*	o	0	-	*	*		
Hangö ...	1026.9	28	ESE	3	bc	1026.2	+1	30	0	E	2	*	o	0	-	*	*		
Riga ...	1020.7	34	ESE	2	f	1022.0	+2	34	-	ESE	1	*	o	0	-	*	*		
Petrograd ...	1027.9	32	ENE	3	o	1029.2	0	28	+1	E	3	-	o	*	-	32	27		
Moscow ...	1029.1	21	-	0	o	1030.9	+1	21	+12	E	3	*	o	*	-	*	21		
Kiev ...	1023.1	32	-	0	f	1023.3	0	32	-	-	0	*	f	*	-	*	27		
Kharkov ...	1025.2	34	NE	2	o	1028.6	0	30	+7	NE	2	*	bc	*	-	*	*		
Kishinev ...	1021.1	37	NE	1	o	1021.3	+2	36	+4	E	1	*	o	*	-	*	32		
Elisabetgrad ...	1022.4	32	E	3	o	1022.6	0	30	-2	E	2	*	f	*	-	*	28		
Nicolaiev ...	1021.0	41	E	4	b	1020.7	*	36	+8	NNE	2	*	o	0	-	*	27		
Odessa ...	1020.2	39	ENE	1	b	1020.6	+1	34	+2	ENE	2	*	f	0	-	*	34		

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

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							England, E.						
Oban ...	1	50	39	bc	b	6.8	Lowestoft ...	0.2	45	42	of	om	0.0
Banff ...	5	49	39	orbc	bc	0.6	Felixstowe ...	1	47	40	om	om	0.0
St. Andrews ...	4	52	36	*	*	4.7	Walton-on-Naze ...	2	46	42	om. o.c	om	0.0
							Southend-on-Sea ...	2	48	42	o2	c	0.0
Eng. N.E.							England, S.E.						
Harrogate ...	2	50	34	bc b	bbcc	7.4	Margate ...	-	46	42	o	o	0.0
Skegness ...	3	45	38	mg	o	0.0	Ramsgate ...	-	46	42	o	o	0.0
							Hastings ...	2	48	43	ad	f	0.0
Eng. N.W.							Eastbourne ...	3	47	44	o	of	0.0
Morecambe ...	-	44	33	zbc	bcz	3.0	Seaford ...	4	49	43	o	o	0.0
Blackpool ...	-						Brighton ...	-					
Southport ...	-	43	33	of o c o	c o c	0.3	Worthing ...	5	49	43	c	o	0.4
							Littlehampton ...	5	49	45	o b o	o	0.6
Midlands							Bognor ...	-					
Buxton ...	-	48	40	of bc	bc f o	0.4	Southsea ...	-					
Leamington Spa ...	4	49	38	m	z	0.8	Bournemouth ...	-	49	38	f. o	o c m	1.6
Malvern ...	-	50	38	cz	c. bc z	0.7							
Ross-on-Wye ...	-						Weymouth ...	0.1	44	38	m o	om	0.0
							Torquay ...	-	49	38	o c	o	1.2
Wales.							Paignton ...	-	49	?	bc	o	1.3
Rhyl ...	-	46	32	bc m	o	4.5	Penzance ...	-	51	43	oc	bc o	1.1
Colwyn Bay ...	-	41	33	bc m	bc m	6.0	Newquay ...	-	50	38	o	o	0.0
Llandudno ...	-	42	34	bm	bm	3.8	Ilfracombe ...	-	47	38	bc z	bc z	2.8
Aberystwyth ...	-	47	35	o c o	c b o	3.5	Weston-super-Mare ...	-	50	33	m. bc	bm	0.5
Tenby ...	-	44	33	bc c o	om	0.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	% 80	% 96	Hr. 0.0	* F. 50	* F. 41	* F. 32	mm. § -	om	o	o
City (Bunhill Row) ...	* *	* *	0.0	* *	* *	* *	* *	* *	* *	* *
Westminster (St. James's Pk.)	86	95	0.0	53	42	40	-	o	o	oe. om
Camden Sq. (Brit. Rainfall)	78	98	0.2	51	43	37	Trace	o	bf	* *
Hampstead (Reservoir) ...	* *	98 *	0.0	48	40	31	-	og	om	om
Richmond Park	* *	* *	0.1							
Kew. (See front page.)	* *	* *	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	80	94	0.0	Total. 375 Joules			Average Rate. 8.7 Milliwatts.		Max. Rate. 34 Milliwatts.	

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm & .	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.	-	51	37	33	c. bf	f. o c	c	*
Manchester „	0.3	49	35	30	or. cu	c. bq.	bq.	3.6
Birmingham „				*				
Oxford to 8 p.m.	*				*			*
Teignmouth to 9 „	-	45	39	29	b. bc	c. bc. c	o	0.7
Plymouth „								
S. Kensington (Museum Grounds to 6 p.m.)	4	52	42	42	om p. or	o	o. om	*

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> March, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.2	12.1	6.0
Greenwich ...	6.9	12.8	6.7
Wick ...	6.23	12.30	6.18
Valencia ...	6.50	12.49	6.48

## NOTES ON YESTERDAY'S WEATHER.

Temperature ranged from 41° at Colwyn Bay to 52° at Valencia and Holyhead. There was little or no rain, but much mist and fog, so that the sunshine was mostly less than an hour, many places had none.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 79

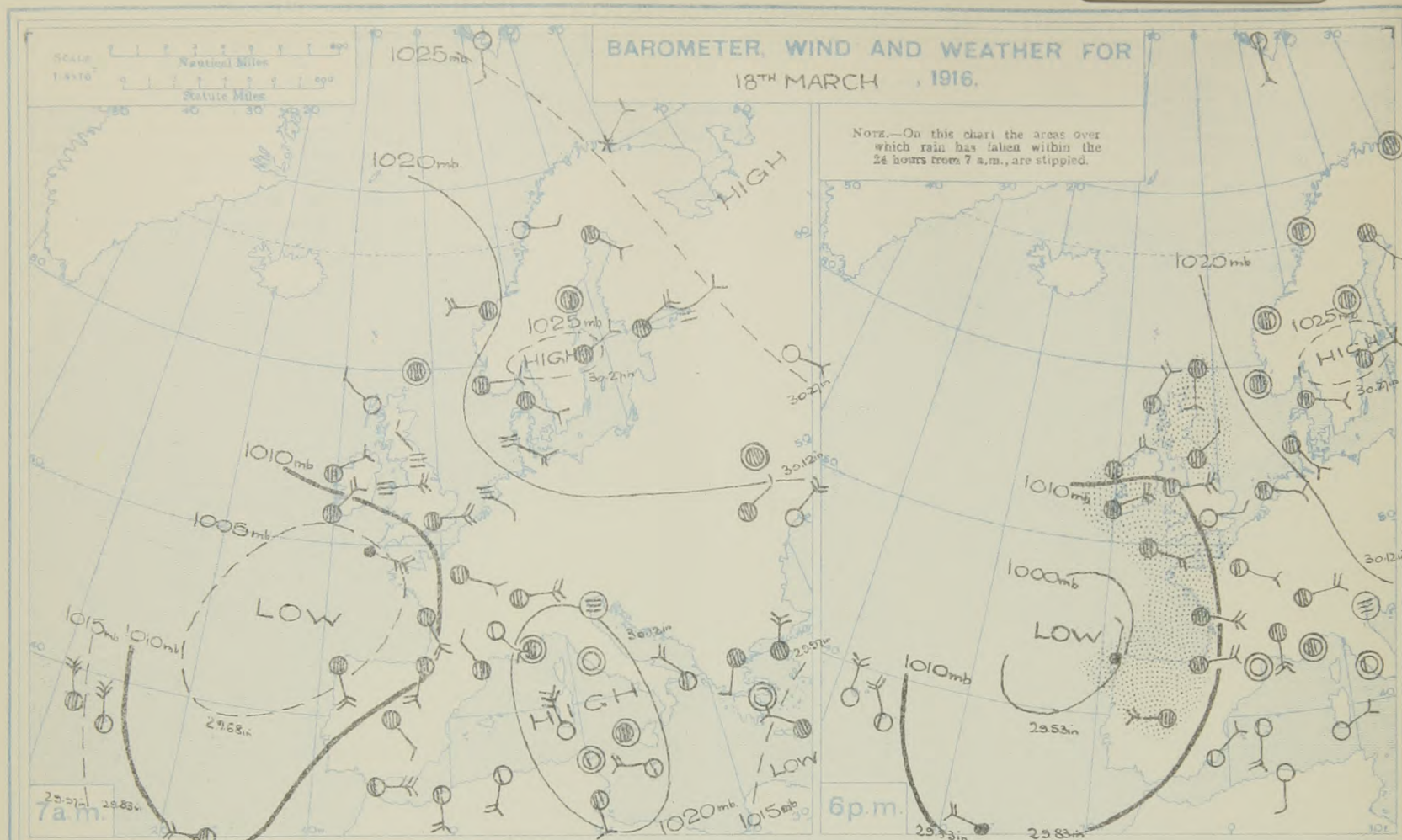
Sunday  
19<sup>th</sup> March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	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.	Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		Weather.			
			Direc.	Force 0-12.												Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	10177	42	S	2	071	10185	1	42	ENE	2	-	071	2	03	45	40	bc	bc	bc	Hours.
	Deerness (Orkney)	10159	41	SE	3	bc	10169	*	41	ENE	3	-	071	2	1	44	39	bc	bc	bc	74
	Stornoway	10153	45	NNE	3	CZ	10155	0	42	ENE	3	-	071	3	-	53	39	bcz	bcz	bcz	44
	Castletown (Barnes)	10147	45	N	3	cm	10154	0	43	N	3	-	071	3	Trace	48	40	cm	bcz	bcz	45
	Glasgow	10143	40	E	2	071	10153	-1	39	ENE	2	-	071	4	Trace	47	35	bcz	bcz	bcz	37
	Esksdalemuir	10147	37	NNE	3	071	10132	0	37	N	4	-	071	2	-	44	35	bcz	bcz	bcz	12
	Malin Head	10125	45	ESE	1	bc	10116	-2	42	E	3	-	071	2	-	48	40	bc	bc	bc	22
	Blackhead Point	10108	45	NE	3	cm	10092	-2	43	NE	4	NE	071	3	1	47	40	cm	cm	cm	*
	Valencia	10047	49	ENE	4	OZ	10049	-1	43	NW	2	E	071	3	3	51	45	bcz	bcz	bcz	00
	Roche's Point	10086	46	ENE	4	cf	10063	*	47	ENE	3	-	071	4	10	47	44	cf	cf	cf	*
	Birt Castle	10098	45	NE	1	T	10077	*	43	NE	1	-	071	4	7	46	41	bcz	bcz	bcz	00
	Donaghadee	10125	45	E	1	ogm	10112	0	42	NE	2	-	071	2	-	47	41	bcz	bcz	bcz	*
	Liverpool (Bldston)	10114	47	E	3	O	10099	-1	42	E	2	E	071	2	-	49	39	cm	cm	cm	00
	Holyhead	10098	47	E	4	cm	10073	-2	43	E	6	-	bc	5	-	51	39	cf	cf	cf	22
	Pembroke (St. Ann's)	10084	49	SE	3	bc	10049	-2	47	ENE	3	-	071	2	3	51	43	cm	bcz	cm	15
	Scilly (St. Mary's)	10034	49	ESE	3	c	9985	-1	48	E	5	-	071	5	9	52	46	cm	cm	cm	33
	Falmouth	10072	49	ENE	2	bz	10008	-4	48	E	4	-	071	4	11	52	45	bcz	bcz	bcz	65
	Jersey (St. Aubin)	10081	55	SE	2	og	10029	*	50	E	4	-	071	3	1	57	47	bcz	bcz	bcz	65
	Portland Bill	10095	45	ENE	3	bc	10041	-6	47	ENE	5	E	071	4	2	51	44	bcz	bcz	bcz	*
	Dungeness	10118	48	SE	2	c	10082	-2	46	E	2	E	071	2	03	49	42	cf	cf	cf	*
	Dover	10120	53	SE	2	bc	10092	-2	48	E	0	S	071	2	1	54	49	bcz	bcz	bcz	04
	Wick	10157	40	SSE	2	c	10160	+1	42	ENE	2	-	071	2	03	43	38	bcz	bcz	bcz	*
	Nairn	10152	40	-	0	bc	10157	*	38	-	0	-	071	0	02	48	34	bcz	bcz	bcz	42
	Aberdeen	10157	41	-	0	O	10159	+1	41	-	0	-	071	3	01	43	38	cm	cm	cm	00
	Leith	10153	38	NE	1	c	10136	0	39	NE	1	-	071	2	-	40	33	cf	cf	cf	*
Tynemouth	10146	40	NE	1	ogf	10131	-2	40	N	2	-	df	4	1	40	36	f	ogf	fd	*	
Spurn Head	10159	42	E	3	f	10121	-1	40	E	2	-	f	3	Trace	43	37	f	f	cm	00	
Yarmouth	10133	43	SE	1	cf	10110	0	41	W	1	-	bc	1	-	46	40	cf	cm	cm	00	
Clacton-on-Sea	10122	46	ENE	3	O	10097	-1	45	ENE	2	SW	071	2	-	47	42	f	cm	cm	06	
Nottingham	10124	46	NE	3	O	10106	*	41	NE	2	NE	071	*	01	47	38	cm	cm	cm	00	
Benson (Oxon.)	10105	49	E	1	b	10077	-2	43	-	0	S	071	*	01	54	36	cm	bcz	bcz	*	
St. Farnborough	10102	52	SE	2	bc	10077	-3	42	NE	2	-	071	*	-	56	37	cm	bcz	bcz	32	
London (Kew Obs.)	10110	52	E	2	cm	10086	-3	46	E	3	-	071	*	1	54	37	cm	cm	cm	01	
NORTHERN EUROPE.	Spitsbergen	10223	17	S	2	bc	10251	+3	18	SSE	2	*	c	3	*	-8	-26				
	Vardö	10233	23	-	0	O	10140	-3	27	W	2	-	bc	2	*	25	19				
	Bodö	10210	37	-	0	c	10189	0	34	ENE	2	-	071	2	-	39	32				
	Christiansund	10216	39	-	0	c	10229	0	39	SW	1	-	071	3	2	39	36				
	Skudesnaes	10207	39	-	0	O	10220	0	36	NE	2	-	071	2	-	39	32				
	Færder (Xania Fjord)	10250	30	-	0	O	10246	0	30	-	0	-	071	0	-	30	30				
	The Scaw (Skagen)	10242	32	ESE	2	O	10240	0	32	S	2	-	071	2	Trace	34	32				
	Blaavands Huk	10204	37	SE	2	O	10202	+1	36	ESE	3	-	071	2	-	39	32				
	Haparanda	10246	23	SSE	2	O	10193	-3	25	WSW	2	-	071	*	-	27	23				
	Hernösand	10240	28	-	0	O	10219	-1	28	-	0	-	071	*	1	30	27				
FRANCE, &c.	Stockholm	10253	32	SE	2	O	10253	0	32	S	2	-	071	*	-	34	30				
	Wisby	10253	32	ENE	2	O	10251	0	32	E	2	-	071	*	-	34	30				
	Karlstad	10252	30	-	0	O	10246	-1	30	-	0	-	071	*	-	34	25				
	The Helder	10147	54	E	2	c	10136	0	45	ESE	2	-	c	1	-	57	39				
	C. Gris Nez	10114	54	SSE	2	c	10088	-3	51	ESE	3	-	c	2	-	55	47				
	La Hève	10057	55	SE	3	bc	9981	-2	50	ESE	4	*	bc	5	3	59	49				
	Brest (St. Mathieu)	10075	57	ESE	4	O	10039	-1	52	SSE	5	*	O	2	1	61	48				
	Rochefort (de l'Aix)	10043	61	E	3	O	10020	-2	55	SSE	4	*	O	2	-	72	58				
	Paris	10122	59	ESE	1	O	10091	-2	46	ESE	3	-	O	*	-	64	45				
	Belfort	10163	55	E	3	c	10157	*	45	E	5	*	c	*	-	63	39				
SOUTHERN EUROPE.	Lyon	10149	56	S	4	O	10124	*	52	SSE	3	*	O	*	-	62	47				
	Nice	10204	47	-	0	c	10190	0	46	SE	1	*	b	2	-	59	41				
	Perpignan	10140	57	-	0	bc	10123	-1	54	E	2	SE	O	*	-	73	46				
	Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Corunna (7 a.m.)	9984	52	NNE	1	r	10029	+2	48	S	1	-	bc	1	11	59	48				
	Madrid (8 a.m.)	10057	59	N	3	O	10073	+1	43	SSW	1	-	O	*	4	66	45				
	Lisbon (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Gibraltar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Malta (8 a.m.)	*	*	*	*	*	10202	0	55	-	0	-	bc	0	-	61	52				
	Azores (Horta, 8 a.m.)	10175	*	NNW	5	O	10176	0	53	N	4	*	O	2	-	59	52				
ITALY.	Madeira (Funchal)	10095	57	W	2	r	10087	+2	57	NW	2	NW	r	2	2	59	55				
	Venice	10191	50	-	0	f	10186	0	48	SE	1	*	f	3	-	*	*				
	Turin	10189	51	-	0	c	10191	0	45	-	0	*	c	*	-	*	*				
	Florence	10199	53	-	0	b	10197	0	45	SW	1	*	b	*	-	*	*				
	Pesaro	10199	50	-	0	b	10189	-1	50	S	1	*	b	1	-	*	*				
	Leghorn	*	*	*	*	*	10196	0	52	-	0	*	b	1	-	*	*				
	Rome	10210	53	-	0	b	10204	0	46	NW	1	*	b	*	-	*	*				
	Brindisi	10180	55	NW	4	b	10194	0	50	NW	1	*	b	2	-	*	*				
	Capri	10189	64	ENE	2	b	10167	0	57	SE	3	*	b	3	-	*	*				
	Palermo	10213	50	E	2	b	10202	0	63	-	0	*	b	1	-	*	*				

RAINFALL  
Equivalents of Millimetres  
in inches.

mm.	inches.	mm.	inches
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.36	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 Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No Warnings Issued.

Western Channel and Bay.

FURTHER OUTLOOK.

Variable Easterly breezes, light to moderate; dull, some rain, mist or fog; moderate temperature.

Easterly breeze, becoming fresh to strong, dull, rain, mist or fog; moderate temperature.

Same as Nos. 0 to 2.

Same as Nos. 3 to 5.

Same as Nos. 0 to 2.

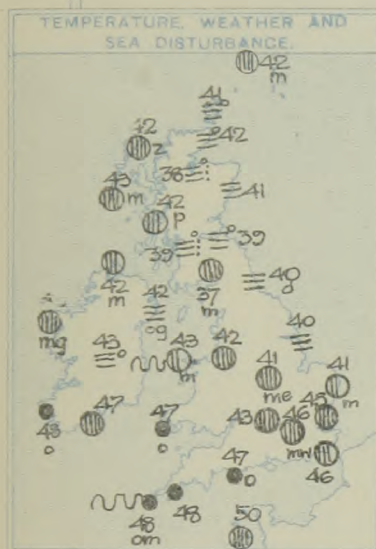
Same as Nos. 3 to 5.

Easterly to Southerly winds, fresh to strong or high; rough sea, some rain, mist or fog; moderate temperature.



# GENERAL INFERENCE.

The depression in the south-west will maintain the unsettled type of conditions.



## EXPLANATION.

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

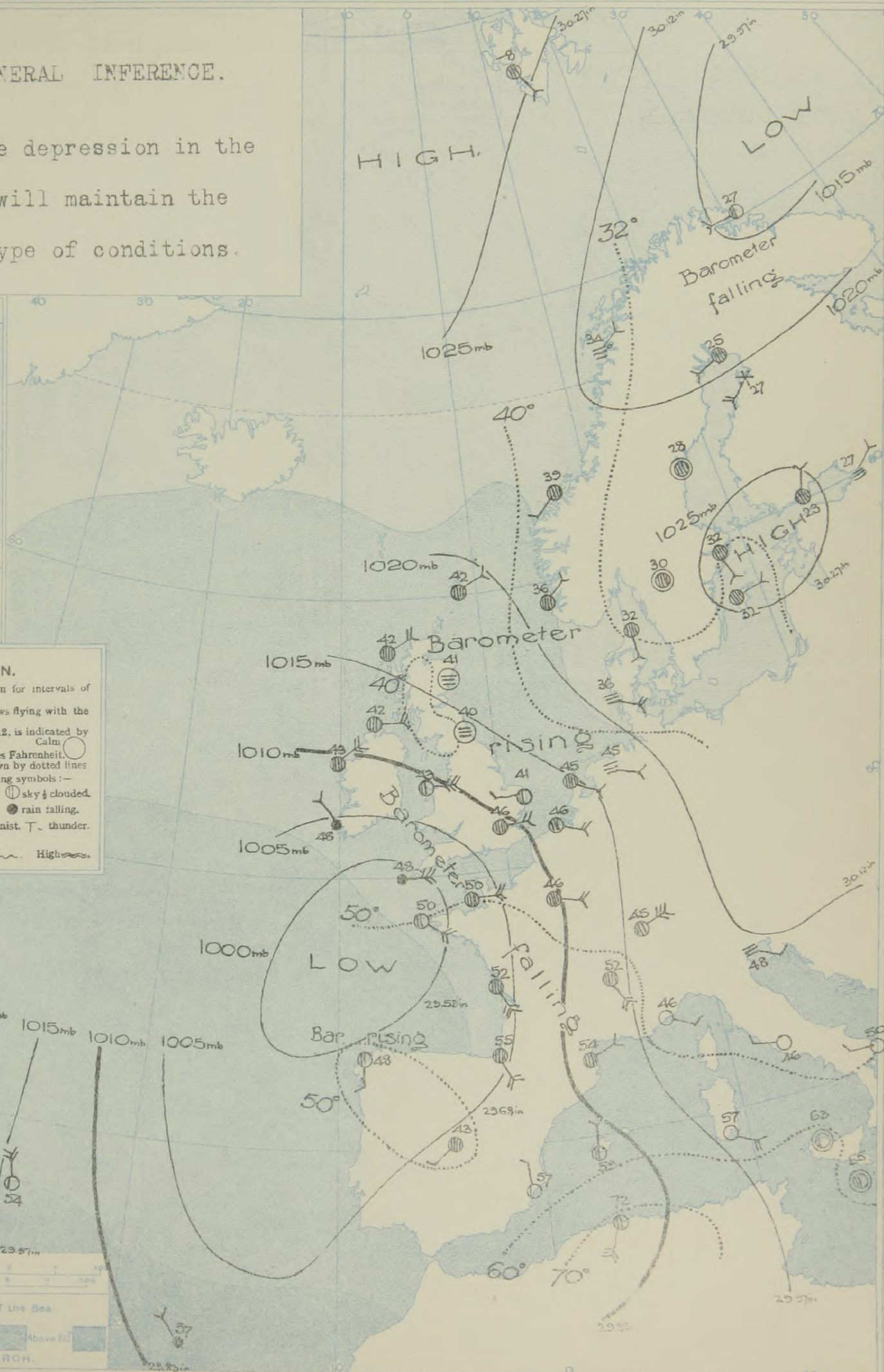
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

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

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

**SEA DISTURBANCE.**—Rough. High.



Normal Temperature of the Sea

Below 40 40-50 50-60 Above 60

Scale of Tints for MARCH.



# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP. °F.	WIND.		Weather.	Sea 0-10.	Rain- fall. Milli- metres.	TEMP.	
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.		Dir.	Force 0-12.				Max.	Min.
Archangel ...	1024.1	24	SW	3	0	-	-	24	-	-	-	-	-	-	-
Uleaborg ...	1025.2	25	S	2	0	1023.4	0	25	WNW	2	0	-	-	-	-
Helsingfors ...	1025.9	28	E	2	0	1024.6	0	27	ENE	4	0	0	-	-	-
Hangö ...	1025.3	28	ESE	2	0	1024.6	0	27	-	0	0	0	-	-	-
Riga ...	1022.3	34	SSE	4	0	-	-	-	-	-	-	-	-	-	-
Petrograd ...	1024.4	28	SE	3	0	1023.8	-1	27	ENE	2	-	f	-	32	27
Moscow ...	1029.9	27	SSE	2	0	1028.0	+1	25	SE	2	-	0	-	2	21
Kiev ...	1023.8	32	ESE	2	f	1023.7	0	32	-	0	0	0	2	-	30
Kharkov ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kishinev ...	1021.9	39	E	1	0	1014.0	0	37	NE	1	0	-	-	-	34
Elisabetgrad ...	1021.4	37	ENE	4	0	1012.6	0	32	NE	2	0	-	-	-	30
Nicolaiev ...	1020.3	39	-	0	0	1017.5	-	34	NE	2	0	0	-	-	34
Odessa ...	1021.1	39	ENE	1	0	1020.6	0	37	ENE	2	f	1	-	-	34

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

STATIONS.	Rainfall. mm. & °F.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & °F.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.							England, E.						
Oban ...	-	55	36	b	bc	5.6	Lowestoft ...	-	47	40	of bc	bc om	1.6
Banff ...	-	49	32	bc	bc	4.8	Felixstowe ...	0.2	46	40	bc bc	oc bc	0.9
St. Andrews ...	-	-	-	-	-	-	Walton-on-Naze ...	0.2	46	40	bc bc	oc bc	0.9
England, N.E.							Southend-on-Sea ...	-	51	40	of	oc bc	0.0
Harrogate ...	-	41	34	m. o	om	0.0	England, S.E.						
Skegness ...	0.1	42	38	me m	c. o	0.0	Margate ...	0.3	54	40	o	sp	0.1
England, N.W.							Ramsgate ...	-	48	40	z	z	0.6
Morecambe ...	-	-	-	-	-	-	Hastings ...	0.4	53	42	o	oc bc	0.5
Blackpool ...	-	-	-	-	-	-	Eastbourne ...	0.3	50	39	oc bc	bc z	1.5
Southport ...	-	50	38	o	o. c	0.4	Seaford ...	-	51	41	o	o. c	1.4
England, S.W.							Brighton ...	-	-	-	-	-	-
Buxton ...	0.3	43	34	bm	cm	0.0	Worthing ...	0.1	52	42	c	b	3.0
Leamington Spa ...	-	52	37	om	o. cm. o	0.2	Littlehampton ...	3	50	45	o	b	3.5
Malvern ...	-	-	-	-	-	-	Bognor ...	1	48	42	o	bc	4.0
Ross-on-Wye ...	0.2	55	40	cm	bc z	0.7	Southsea ...	-	-	-	-	-	-
Wales.							Bournemouth ...	-	51	40	o	b	4.8
Rhyl ...	-	-	-	-	-	-	Weymouth ...	-	52	42	o. b	b	6.0
Colwyn Bay ...	-	-	-	-	-	-	Torquay ...	-	52	40	bc	bc	6.1
Llandudno ...	2	49	41	c	c	0.0	Paignton ...	-	52	40	bc	bc	6.1
Aberystwyth ...	1	50	42	o. c. o	or o	0.0	Penzance ...	6	54	46	oc bc	bc. b	7.0
Tenby ...	3	50	41	bc. or	bc	1.9	Newquay ...	-	-	-	-	-	-
							Ilfracombe ...	-	-	-	-	-	-
							Weston-super-Mare ...	-	-	-	-	-	-

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
Greenwich (Royal Obs.) ...	% 83	% 90	Hr. 1 2	° F. 53	° F. 40	° F. 30	mm. 0.3	cp	bc	b cm
City (Bunhill Row) ...	% 85	% 96	" 0 9	" 55	" 43	" 39	" 0.3	" om o	" om	" om
Westminster (St. James's Pk.)	% 85	% 96	" 0 2	" 55	" 43	" 39	" 0.3	" om o	" om	" om
Camden Sq. (Brit. Rainfall)	% 89	% 92	" 0.8	" 55	" 42	" 36	" 1	" om o	" or c	" cm
Hampstead (Reservoir) ...	% 83	% 83	" 1.6	" 53	" 41	" 31	" 1	" o. bc	" c. or	" cm
Richmond Park ...	% 83	% 83	" 0.0							
Kew. (See front page.)	% 83	% 83	" 0.1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
S. Kensington (Roof of M.O.)	75	84	0.2	Total. 402 Joules		Average Rate. 9.3 Milliwatts.		Max. Rate. 31 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day.
		Max.	Min.					
Dublin to 4 p.m.	0.3	47	42	40	cf m	cm. o	or c	-
Darwen to 9 p.m.	-	46	37	32	bc	cbu	ou	0.2
Manchester "	-	49	37	-	of. cz	z. co	oc o	0.0
Birmingham "	-	50	39	29	-	f. o	o	0.0
Oxford to 8 p.m.	-	53	38	29	bc m. o	o	ob m	-
Teignmouth to 9 "	-	49	41	41	o	o. c. b	b	5.9
Plymouth "	2	55	43	-	c. bpq	c. b	bcq	7.0
S. Kensington (Museum Grounds to 6 p.m.)	1	54	43	37	om o	om. om	om. b	-

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

STATION. Date and Hour.	Sunrise, Noon, Sunset.		
	G.M.T.	G.M.T.	G.M.T.
19 <sup>th</sup> March, 1916.	5.58	12.1	6.3
Yarmouth ...	6.7	12.8	6.9
Greenwich ...	6.5	12.8	6.10
Wick ...	6.10	12.10	6.20
Valencia ...	6.40	12.44	6.50

## 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.
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;  
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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Terminals in London.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 80. Monday, 20<sup>th</sup> March.

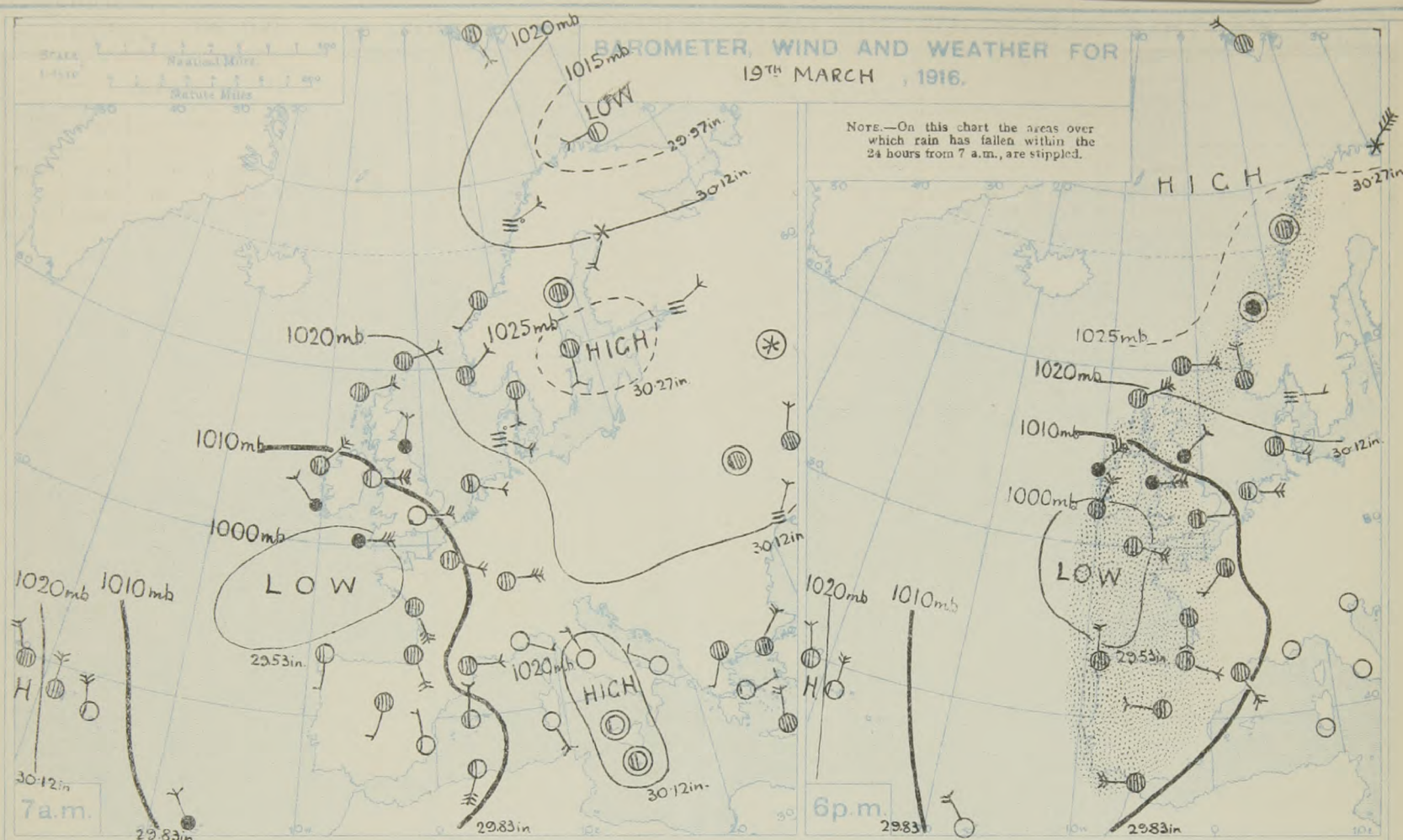
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud	Weather.	Sea 0-5.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1023.0	42	E	3	om	1024.3	1.3	42	0	NE	2	NE	bc	2	-	43	38	om	om	o c	Hours.
	Deerness (Orkney)	1020.3	42	E	4	m	1022.3	2.0	41	0	ENE	5	E	o	5	-	44	40	m f	f m	m o	0.0
	Stornoway	1018.1	45	ENE	5	og	1020.4	2.3	42	0	NE	7	-	ozq	6	-	47	41	og	og	c ozq	5.0
	Castlebay (Barra Isd.)	1013.4	49	MNE	4	bcqm	1014.8	1.4	45	+2	NE	6	-	bcqm	6	-	50	42	o bm	bcqm	g bcqm	7.0
	Glasgow	1013.3	40	ENE	4	ome	1014.1	0.8	38	-1	NE	5	-	or	6	-	41	38	m.e.o	ome	mp.og	0.0
	Eskdalemuir	1013.2	38	MNE	4	orm	1013.1	-1.1	37	0	NE	6	-	o	9	-	41	36	om.umd	omp mr	orm or	0.0
	Malin Head	1009.0	44	E	4	omr	1010.0	+1.0	47	+5	ENE	5	-	omgr	5	-	47	40	bcm	bcm	omgr	3.2
	Blacksod Point	1004.9	43	NE	5	umd	1005.1	+0.2	44	+1	NE	5	NE	omg	4	-	46	41	cm	umd	omr.ou	1.1
	Valencia	999.3	46	NE	4	og	998.8	-0.5	50	+1	ENE	3	-	op	3	-	51	45	op.oz	ozg.oz	no.cdp	1.1
	Roch's Point	1000.1	47	ENE	2	rj	1002.1	2.0	47	0	E	5	-	o	5	-	49	46	rm	rm f	frm	0.0
	Birr Castle	1001.8	46	E	1	rj	1004.9	3.1	45	+2	E	1	-	m	9	-	47	42	z. or	or	orz	0.0
	Donaghadee	1007.9	45	ESE	4	omr	1009.4	1.5	43	+1	E	5	-	ogmq	4	-	46	42	*	omp	omrg	0.0
	Liverpool (Bidston)	1006.1	47	E	4	r	1007.4	+1.3	43	+1	ENE	3	E	o	3	-	50	42	od	or	o	0.0
	Holyhead	1003.9	46	E	6	orm	1005.2	+1.3	44	+1	E	6	-	cm	5	-	48	43	o.orm	orm	or.orm	0.0
	Pembroke (St. Ann's)	1000.3	48	SE	5	cqb	1004.1	+3.8	45	-2	SE	3	-	o	2	-	49	45	or	og. cqb	c	0.0
	Scilly (St. Mary's)	996.3	50	ESE	4	cmg	1003.0	+6.7	47	-1	SE	1	-	o	5	-	51	46	cqb	cmg	cqb	0.7
	Falmouth	999.4	49	ESE	4	op	1003.0	+3.6	47	-1	SE	1	-	o	1	-	51	41	op	om. bc. c	o. c. o	0.3
	Jersey (St. Aubin)	1002.4	49	SE	3	c	1004.1	1.7	43	-7	SE	2	-	om	1	-	51	41	op	cro. c	c. bc. m	0.0
	Portland Bill	1003.0	45	E	4	c	1004.0	1.0	45	-2	-	0	-	c	2	-	48	43	c. or	or	c. bc. c	0.0
	Dungeness	1005.4	49	ENE	1	o	1004.3	-1.1	44	+3	NE	2	NE	c	2	-	51	45	c. bc	bc. c. o	bc	0.0
	Dover	1006.7	55	ESE	2	o	1003.5	-3.2	48	0	NW	3	SE	o	2	-	57	47	c. z. bc	bc. c. o	opr	0.4
	Wick	1019.4	42	ENE	2	m	1022.0	2.6	41	-1	E	3	-	o	4	-	42	40	m. fe	fe. om	ome	0.0
	Nairn	1017.8	40	E	2	r	1020.2	2.4	40	+2	ENE	3	-	orm	3	-	41	37	m. fe	fe. om	fe. om	0.0
	Aberdeen	1018.0	41	E	3	fe	1019.3	1.3	40	-1	ENE	5	-	orm	4	-	42	39	fe	fe	fe. om	0.0
	Leith	1014.4	40	NE	2	f	1016.3	1.9	39	0	NE	2	-	r	5	-	40	38	m. fe	f	me. or	0.0
Tynemouth	1012.5	40	NE	2	fd	1012.9	0.4	40	0	NE	4	-	mr	4	-	41	40	fd	fd	fd	0.0	
Spurn Head	1009.8	42	E	3	om	1012.7	2.9	40	0	E	6	-	fe	6	-	44	35	cm	c. om	omp	0.0	
Yarmouth	1008.6	45	ESE	3	bc	1005.7	-2.9	43	+2	ENE	2	-	f	2	-	49	41	bcm	bcm	bcm	2.5	
Clacton-on-Sea	1007.1	45	ENE	2	o	1004.7	-2.4	46	+1	N	2	-	o	1	-	47	43	o	og	ogm	0.1	
Nottingham	1007.5	50	NE	4	o	1007.5	0.0	43	+2	NE	3	NE	r	5	-	50	40	orm	o	o	0.0	
Benson (Oxon.)	1005.7	53	SSE	2	o	1005.3	-0.4	44	+1	-	0	-	r	3	-	56	43	o	o	or	0.0	
St. Farnborough	1005.8	53	ESE	2	r	1004.7	-1.1	46	+4	WSW	1	-	or. f	5	-	57	42	m. o	o	no. f	0.0	
London (Kew Obs.)	1005.9	53	E	1	om	1004.9	-1.0	45	-1	-	0	-	f	5	-	56	43	omw. of	om	cm. of. f	0.0	
NORTHERN EUROPE.	Spitsbergen	1029.7	0	NW	3	o	1030.9	+1.2	1	+9	-	0	*	bc	*	-	1	-9				
	Vardö	1029.9	28	NE	8	S	1029.0	-0.9	12	-15	NE	3	-	S	4	-	30	12				
	Bodö	1021.2	37	-	0	o	1021.1	-0.1	34	0	E	1	-	bc	1	-	37	32				
	Christiansund	1024.2	37	-	0	r	1023.0	-1.2	37	-1	NE	2	-	c	3	-	37	36				
	Skudesnaes	1021.7	34	NNW	3	o	1019.4	-2.3	36	0	-	0	-	f	2	-	39	34				
	Fardet (Xenia Fjord)	1024.3	31	-	0	f	1020.4	-3.9	30	0	N	2	-	f	1	-	32	28				
	The Seaw (Skagen)	1024.0	31	E	1	f	1020.0	-4.0	32	0	E	2	-	f	2	-	34	32				
	Blauvands Huk	1019.4	39	ESE	3	o	1016.4	-3.0	36	0	E	2	-	f	3	-	39	32				
	Haparanda																					
	Hernösand																					
FRANCE, &c.	Stockholm																					
	Wisby																					
	Karlstad																					
	The Helder	1011.9	50	E	4	c	1008.0	-3.9	43	-2	E	3	SW	bc	2	-	57	43				
	C. Gris Nez	1006.6	57	ESE	1	bc	1005.0	-1.6	46	-5	ENE	3	*	o	1	-	61	45				
	La Hève	1006.9	55	ESE	3	r	1005.0	-1.9	50	-	-	0	*	m	1	-	57	48				
	Brest (St. Mathieu)	1000.2	50	S	5	o	1003.4	-6.8	46	-4	ESE	3	*	m	3	-	55	45				
	Rochefort (de Aix)	1004.0	55	S	2	bc	1002.9	-1.1	46	-6	SE	2	*	m	1	-	59	46				
	Biarritz	1003.4	57	ESE	2	o	1002.1	-1.3	58	+3	S	3	*	c	1	-	59	50				
	Patis	1006.0	57	-	0	o	1004.8	-1.2	50	+4	S	2	-	r	2	-	66	46				
SOUTHERN EUROPE.	Belfort																					
	Lyons	1008.3	61	SE	2	c	1006.9	-1.4	52	0	SSE	2	*	o	*	-	68	50				
	Nice																					
	Perpignan	1008.3	54	SE	4	o	1004.9	-3.4	52	-2	-	0	SW	bc	3	-	63	50				
	Sanguinaire	*	64	E	2	b	*	56	-	E	1	*	bc	2	-	66	43					
	Corunna (Spain)	1000.8	55	N	3	o	1000.7	-0.1	50	+2	-	0	-	r	2	-	61	48				
	Madrid (Spain)	1004.4	54	W	2	c	1007.5	+3.1	45	+2	SSW	2	-	bc	4	-	54	48				
	Lisbon (Spain)																					
	Gibraltar	1009.5	58	W	4	o	1008.4	-1.1	54	-	SW	6	*	r	3	-	64	53				
	Malta (Spain)	*	*	*	*	*	1015.8	0.0	57	+2	SE	3	W	o	1	-	64	54				
AZORES &c.	Azores (Horta, Sam.)	1017.9	*	N	4	b	*	*	*	*	*	*	*	*	*							
	Madeira (Funchal)	1009.6	61	NW	3	bc	1013.2	+3.6	52	-5	NW	3	W	o	3	-	61	52				
											</											

## 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 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 1)

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Squally Easterly to North-Easterly wind, fresh to strong; dull, damp, some rain, mist or fog; moderate temperature. |
| 1  | b |   |   |
| 2  | a | } | Calms and light variable breezes; dull, damp, some rain, mist, or fog; mild.  |
| 3  | b |   |   |
| 4  | a | } | Same as Nos. 0 to 2.  |
| 5  | b |   |   |
| 6  | a | } | Light South-Easterly breezes; dull, damp, some rain, mist or fog; moderate temperature.                             |
| 7  | b |   |   |
| 8  | a | } | Same as Nos. 0 to 2.  |
| 9  | b |   |   |
| 10 | a | } | Light to moderate Easterly to North-Easterly breeze; dull, damp, some rain, mist or fog; moderate temperature.      |
| 11 | b |   |   |
| }  |   |   | Light to fresh Easterly to Southerly breeze; sea moderate; dull, damp, some rain, mist or fog.                      |

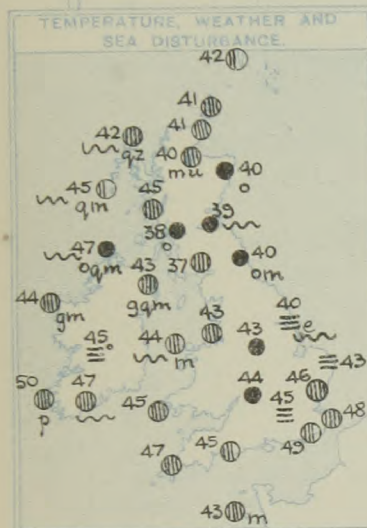
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., MONDAY, 20<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE.

The Easterly type of thick weather is likely to hold.



## EXPLANATION.

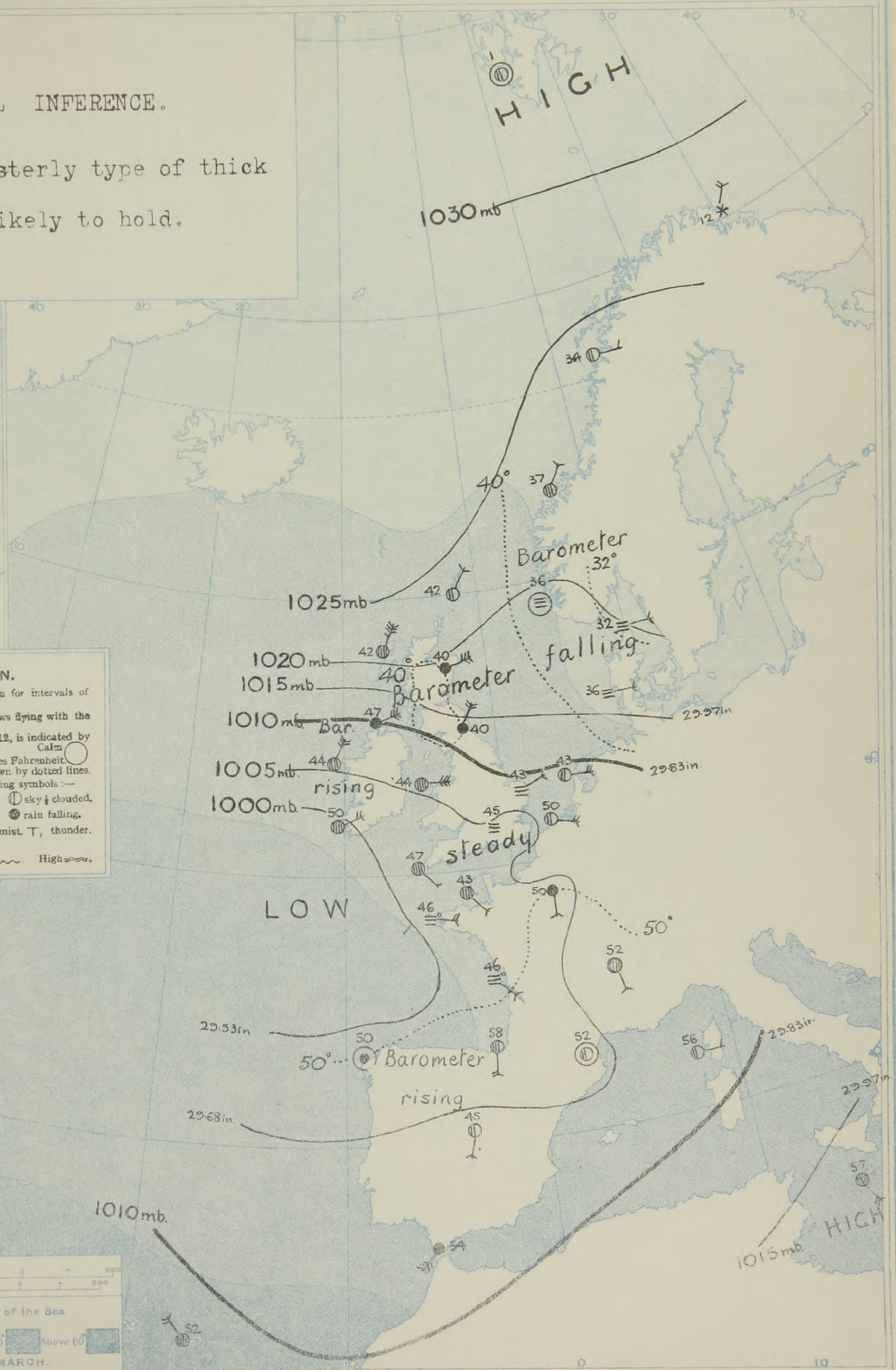
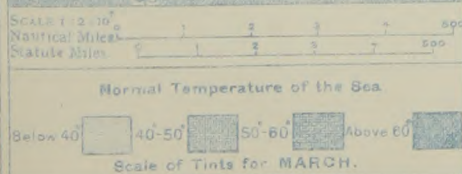
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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.	...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. ° 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. ° F.	Change in 24 hours.	Direc.	Force 0-12.							
Archangel ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uleaborg ...	10246	27	E	1	0	10208	-3	27	-	SW	3	-	3	-	-	-	-	
Helsingfors ...	10265	27	ENE	1	0	10259	-1	23	-	NE	2	-	0	0	-	-	-	
Hangö ...	? 10266	?	-	0	0	10259	0	25	-	ESE	2	-	0	0	-	-	-	
Riga ...	10223	32	-	0	f	-	-	-	-	-	-	-	-	-	-	-	-	
Petrograd ...	10244	28	NE	3	0	10242	0	25	-	ENE	3	-	0	-	-	25	25	
Moscow ...	10249	30	S	2	0	10231	0	27	-	-	0	-	S	-	-	-	27	
Kiev ...	? 10212	37	ENE	4	r	10226	0	32	-	-	0	-	0	-	-	30	30	
Kharkov ...	10225	34	ENE	2	0	10202	-1	32	-	NNE	2	-	0	-	-	-	-	
Kishinev ...	10223	39	NW	1	0	10217	0	34	-	N	1	-	0	-	4	-	34	
Elisabetgrad ...	10213	34	N	2	f	10205	0	32	-	N	3	-	0	-	-	-	32	
Nicolaiev ...	10205	39	NNE	2	0	10194	-	36	-	N	3	-	0	0	-	-	34	
Odessa ...	10211	39	NE	3	0	10202	0	36	-	ENE	3	-	0	0	-	-	36	

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

STATIONS.	Rainfall. mm. & °F.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & °F.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland. { Oban ...	...	53	39	bc	0	27	England, E. { Lowestoft ...	...	47	41	bc	bc	05
{ Banff ...	0.2	42	40	ome	ome	00	{ Felixstowe ...	1	46	43	bcz b	ocobc	05
{ St. Andrews ...	...	...	...	...	...	...	{ Walton-on-Naze ...	...	52	42	c	c	00
Eng. N.E. { Harrogate ...	2	41	38	om	optm	00	{ Margate ...	...	52	46	c	cc	04
{ Skegness ...	1	45	34	oco	0	02	{ Ramsgate ...	...	...	...	...	...	...
Eng. N.W. { Morecambe ...	...	...	...	...	...	...	{ Hastings ...	...	55	48	bc0	c.o	01
{ Blackpool ...	...	...	...	...	...	...	{ Eastbourne ...	...	51	40	bc	bm	00
{ Southport ...	2	50	40	om0	0	00	{ Seaford ...	...	...	...	...	...	...
Midlands { Buxton ...	2	46	38	cr	c	01	{ Brighton ...	...	57	46	ou	ou	00
{ Leamington Spa ...	1	53	43	op	opd	00	{ Worthing ...	0.3	54	46	0	0	00
{ Malvern ...	7	48	43	or	ro	00	{ Littlehampton ...	8	53	46	0	odc	00
{ Ross-on-Wye ...	...	...	...	...	...	...	{ Bognor ...	6	49	45	0	od	00
Wales. { Rhyl ...	2	50	43	0	op	00	{ Southsea ...	...	...	...	...	...	...
{ Colwyn Bay ...	2	49	41	c	od	00	{ Bournemouth ...	14	49	41	r	r	00
{ Llandudno ...	...	...	...	...	...	...	England, S.W. { Weymouth ...	...	...	...	...	...	...
{ Aberystwyth ...	5	51	45	0 or	or0	00	{ Torquay ...	16	48	44	or	roc	00
{ Tenby ...	...	...	...	...	...	...	{ Paignton ...	19	49	40	or	0	00
							{ Penzance ...	...	54	47	c	c	16
							{ Newquay ...	...	...	...	...	...	...
							{ Ilfracombe ...	...	...	...	...	...	...
							{ Weston-super-Mare ...	...	...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
Greenwich (Royal Obs.) ...	% 74	% 94	Hr. 01	° F. 57	° F. 44	° F. 38	min. & 2	0	0	orm
City (Bunhill Row) ...	* 74	* 93	00	* ?	* 45	* 39	* 4	* ome	* omam	* omc
Westminster (St. James's Pk.)	- 74	- 95	00	- 57	- 44	- 37	- 4	- -	- -	- *
Camden Sq. (Brit. Rainfall)	- -	- 93	00	- 54	- 41	- 31	- 5	- 0	- 0	- oro
Hampstead (Reservoir) ...	* -	* 93	00	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Richmond Park	* -	* -	00							
Kew. (See front page.)	* -	* -	00	Total. 346 Joules		Average Rate. 80 Milliwatts.		Max. Rate. 27 Milliwatts.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	- -	89	00							

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day. Hr.
		Max.	Min.					
		°F.	°F.					
Dublin to 4 p.m.	mm. & °F.	46	42	28	om	om	om	...
Darwen to 9 p.m.	...	...	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...	...	...
Oxford to 8 p.m.	...	55	39	32	bm0	0	op	...
Teignmouth to 9,	...	...	...	...	...	...	...	...
Plymouth "	...	...	...	...	...	...	...	...
S. Kensington (Museum Grounds to 8 p.m.)	01	50	46	34	bcz om	om0	om	...

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> March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.56	12.0	6.4
Greenwich ...	6.5	12.7	6.11
Wick ...	6.18	12.30	6.23
Valencia ...	6.46	12.49	6.51

## NOTES ON YESTERDAY'S WEATHER.

Temperature was rather variable, ranging from 40° at Leith to 57° at Brighton, Dover and Farnborough. Rain, mist and fog were prevalent. The Hebrides had from 5 to 7 hours of sunshine, elsewhere there was little or none.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 81

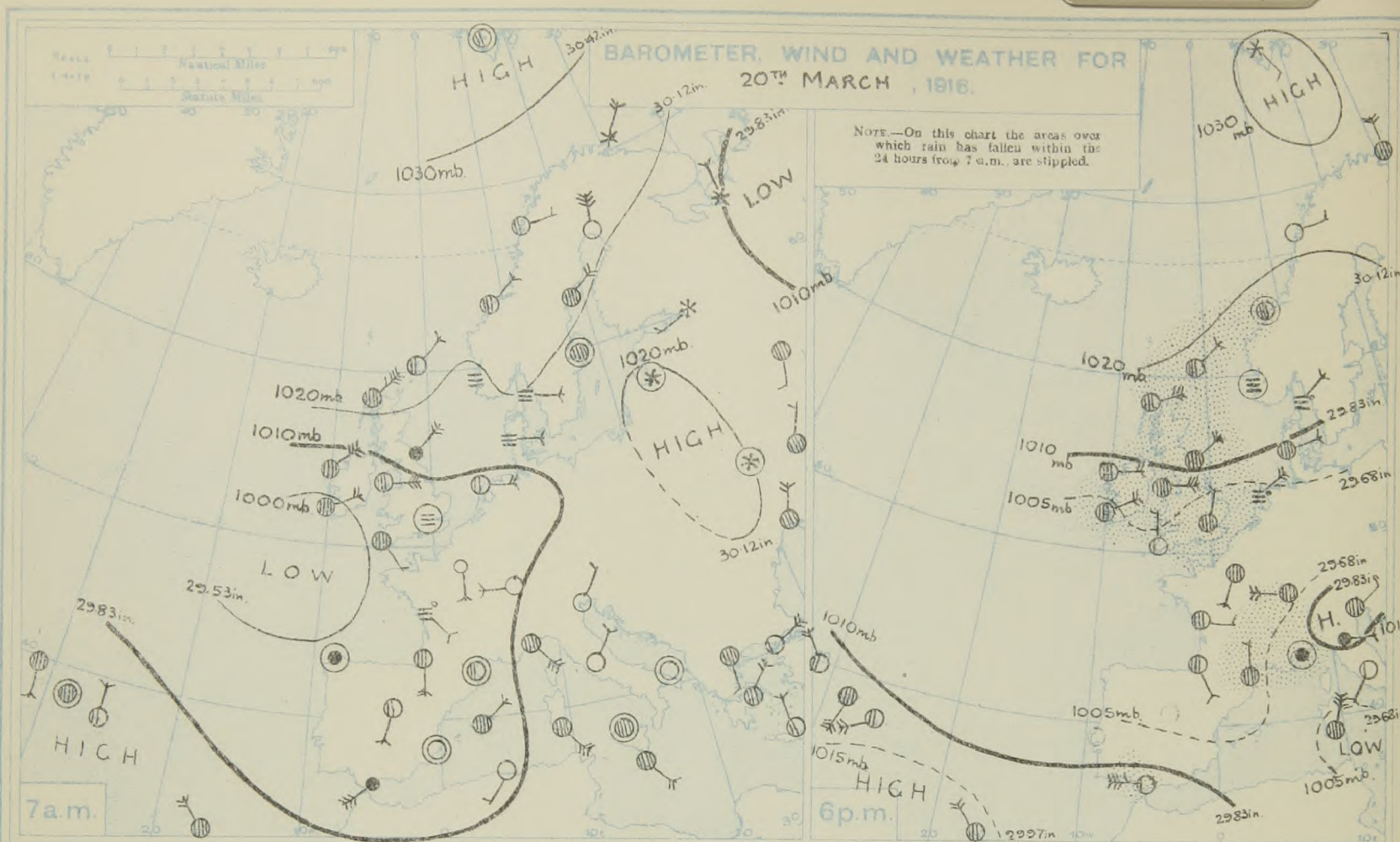
Tuesday  
21<sup>st</sup> March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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.	Dry Bulb.	Change in 24 hours.	WIND.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.												Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1019.6	42	NE	2	c	1013.5	-1	39	-3	NE	5	-	c	4	2	44	36	b.c.c	c	c	Hours.
	Deerness (Orkney) ...	1018.6	40	NNE	3	c	1011.8	*	38	-3	NE	5	E	o	4	2	45	36	a.c.b.c	b.c.c	o.p.o	3.4
	Stornoway ...	1019.3	43	ENE	5	cq	1012.0	-2	38	-4	ENE	6	-	o.pq	5	2	47	38	a.c.cq	o.cq	c.o.pq	3.7
	Castlebay (Barratsd.) ...	1014.5	45	NE	6	bcmg	1009.9	-2	41	-4	NNE	2	-	o	2	-	49	40	bcmg	bcmg	bcmg.o	7.0
	Glasgow ...	1014.4	39	ENE	4	omg	1008.4	-3	36	-2	ENE	3	-	c	*	2	40	35	r.oq	omg	o.b.c.p	0.0
	Eskdalemuir ...	1012.7	37	NE	6	om	1007.5	-2	33	-4	NE	4	-	c	*	1	38	33	od.orn	orm.odm	od.ops	0.0
	Malin Head ...	1011.3	42	ENE	6	omg	1008.4	-3	42	-5	NE	2	NE	cm	3	4	48	38	cmgp	omg	cm	0.0
	Blacksod Point ...	1009.2	45	E	3	cm	1006.8	-3	41	-3	NNE	4	NE	cmg	3	2	48	40	om	cm	cm.p.cm	*
	Valencia ...	1004.6	51	ENE	4	c	1004.4	-1	42	-8	-	0	N	o	3	2	53	41	op	op.c	c	0.0
	Roche's Point ...	1006.6	48	E	3	b.c	1005.2	*	43	-4	N	1	-	o	2	1	52	43	r.m.c	b.c	b.o	*
	Birr Castle ...	1007.7	45	E	2	o	1005.7	*	40	-5	NE	1	-	o	*	-	47	39	f	o	o	0.0
	Donaghadee ...	1010.1	43	NE	4	om	1004.6	-2	39	-4	ENE	3	E	b.c	3	1	45	39	om.p	om.p	om.p.cm	*
	Liverpool (Bidston) ...	1007.6	41	ENE	3	r	1003.0	-2	36	-7	NE	3	E	r	3	11	44	36	or	or	or	0.0
	Holyhead ...	1006.1	42	E	5	ogmp	1003.0	-1	39	-5	E	5	-	ogr	4	3	45	39	a.c.gm	ogmp	ogr	0.2
	Pembroke (St Ann's) ...	1005.2	48	NW	2	c	1000.3	-2	40	-5	NNE	2	-	or	2	6	55	44	a.c	c	or	4.6
	Scilly (St. Mary's) ...																					
	Falmouth ...	1004.0	52	N	1	b	999.2	-3	45	-2	NW	3	-	od	*	-	55	44	a.b.c.b	b.b.c.c	b.b.c.o	5.4
	Jersey (St. Aubin) ...	1002.6	49	ESE	3	o	998.6	*	46	+3	W	2	-	fe	1	Trace	53	42	a.c.o	a.c.o	bfe	0.0
	Portland Bill ...	1002.8	49	N	1	or	998.7	-3	42	-3	NW	2	N	or	2	3	52	40	c.o	or	or.c	*
	Dungeness ...	1001.5	50	NE	2	c	994.9	-3	45	-4	NE	1	-	orf	2	12	53	44	b.c.o	a.b.c	b.c.orf	*
Dover ...	1001.7	55	E	2	o	995.0	-2	45	-3	NE	3	-	f	2	2	56	45	a.c.b.c	b.c.c.o	or.of	0.7	
NORTHERN EUROPE.	Wick ...	1018.7	41	N	2	b.c	1011.8	-2	38	-3	NE	3	-	o	3	1	44	37	om.c	c.b.c	c.omp	*
	Nairn ...	1018.0	40	ENE	2	cq	1010.4	*	34	-6	-	0	-	cu	1	0.4	42	33	cu	ag.o	cm	0.2
	Aberdeen ...	1017.0	42	NE	4	c	1009.7	-2	35	-5	NNE	3	-	crsp	4	2	42	35	ormop	a.c	c.ormsp	0.0
	Leith ...	1015.5	39	NE	2	o	1008.2	-2	38	-1	NE	2	NE	c	4	4	40	37	r	ad.c.o	ad.d.c	*
	Tynemouth ...	1012.2	40	NE	4	omr	1006.1	-3	39	-1	ENE	5	-	omgr	5	2	40	37	omr	omr	omgr	*
	Spurn Head ...	1006.6	40	ENE	5	f	1002.4	-2	38	-2	ENE	5	-	ogr	6	2	43	37	f	f	om	0.0
	Yarmouth ...	1003.6	43	E	3	c	999.0	-1	39	-4	NE	3	-	orm	3	3	47	38	f	f.cm	f.orm	1.4
	Clacton-on-Sea ...	1002.7	49	ENE	1	c	996.8	-2	42	-4	NNE	4	NE	o	3	2	51	41	a.c.m	c.b.c.m	c.ogmr	3.3
	Nottingham ...	1005.8	40	NE	5	r	1001.1	*	38	-5	NE	4	NE	r	*	6	44	37	r.o	odm	d.m	0.0
	Benson (Oxon.) ...	1003.4	42	N	4	o	997.5	-3	39	-5	NE	5	-	o	*	7	47	39	r.o	r.o	r	*
Sth Farnborough ...	1002.6	43	SW	2	r	996.7	-1	41	-5	N	3	-	or	*	7	49	41	r.m	r.m.d	or	0.0	
London (Kew Obs.) ...	1002.8	46	NNE	2	om	997.3	-1	42	-3	NE	3	-	omr	*	4	53	42	f.omr.d	omr.d	omr.omr	0.0	
FRANCE, &c.	Spitsbergen ...	1031.7	5	SSE	1	s	1026.6	+1	9	+8	SSW	1	*	o	*	*	9	0				
	Vardö ...	1027.1	16	N	4	o	1022.6	-1	21	+9	N	5	-	s	5	*	21	9				
	Bodö ...	1021.7	30	E	2	b	1021.6	+2	21	-13	E	4	-	b	2	-	36	18				
	Christiansund ...	1018.3	36	-	0	c	1014.6	0	36	-1	E	3	-	c	3	2	34	32				
	Skudesnaes ...	1013.6	37	-	0	f	1007.9	-3	34	-2	NE	2	-	b	1	-	39	32				
	Færder (Xania Fjord) ...	1014.3	34	ENE	1	f	1011.3	0	30	0	ENE	5	-	o	2	-	36	30				
	The Scaw (Skagen) ...	1013.9	34	NE	2	m	1007.3	-1	32	0	E	5	-	o	5	-	34	32				
	Blaavands Huk ...	1010.0	36	ENE	2	o	1001.6	-3	32	-4	ENE	3	-	f	3	-	37	30				
	Haparanda ...														*							
	Hernösand ...														*							
SOUTHERN EUROPE.	Stockholm ...														*							
	Wisby ...														*							
	Karlstad ...														*							
	The Helder ...	1004.8	43	NE	4	m	998.0	-2	39	-4	NE	4	-	r	2	3	50	39				
	C. Gris Nez ...	1001.1	56	ESE	3	o	996.8	-2	46	0	SE	1	*	m	1	Trace	61	46				
	La Hève ...	1000.7	46	SW	2	r	999.3	*	44	-6	WNW	4	*	o	4	8	52	43				
	Brest (St. Mathieu) ...	1003.4	50	N	2	c	1001.2	-1	47	+1	N	3	*	c	2	-	59	45				
	Rochefort (Ile d'Aix) ...	1002.3	55	E	1	c	1000.4	0	49	+3	W	3	*	o	*	-	63	46				
	Biarritz ...	1001.0	63	SSE	2	c	1003.1	+2	52	-6	WNW	3	*	r	2	-	68	52				
	Paris ...	1001.7	54	SSW	3	c	998.9	-1	41	-9	SSW	1	SW	b	*	-	61	39				
ITALY.	Belfort ...	1004.6	57	W	4	o	1000.7	*	46	-5	-	0	SW	o	*	1	68	45				
	Lyons ...	1005.0	54	SE	1	b	1000.7	*	46	-6	W	1	*	o	*	1	66	46				
	Nice ...	1006.3	48	-	0	r	1000.4	0	45	-6	-	0	*	r	5	18	55	45				
	Perpignan ...	1001.5	57	N	1	o	1000.7	0	50	-2	NW	1	N	r	*	1	73	48				
	Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Corunna (7 a.m.) ...																					
	Madrid (8 a.m.) ...	1005.3	50	W	2	c	1003.0	+2	43	-2	WSW	1	-	c	*	3	54	41				
	Lisbon (9 a.m.) ...																					
	Gibraltar ...	1011.8	58	W	7	b	1012.5	*	54	0	NW	5	*	b	2	12	60	52				
	Malta (8 a.m.) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
YESTERDAY'S REPORTS.	Azores (Horta, 8 a.m.) ...	1011.5	*	SSW	5	o					*	*	*	*	*	*	*	*				
	Madeira (Funchal) ...	1015.3	63	NW	4	c	1017.6	0	54	+2	NW	2	NW	b.c	2	-	63	52				
	Venice ...	1017.5	50	-	0	o	1015.9	0	48	0	NE	1	*	o	2	*	*	*				
	Turin ...	1016.3	54	-	0	c	1015.3	0	46	+1	-	0	*	c	*	*	*	*				
	Florence ...	1016.2	54	-	0	o	1012.4	0	50	+5	SW	1	*	b	*	*	*	*				
	P																					

UPPER AIR  
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





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

No Warnings Issued.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

Moderate or fresh North-Easterly winds; mostly dull, occasional rain or sleet; cool.

Moderate or fresh North-Easterly winds; dull, considerable rain; misty; rather cool.

Moderate North-Easterly or Northerly winds; dull, considerable rain, some mist or fog; cool.

Moderate or light North-Easterly winds; dull, some showers, cool.

Moderate or fresh North-Easterly winds; dull, some rain; cool.

Moderate or light North-Easterly or Northerly winds; dull, some rain, cool.

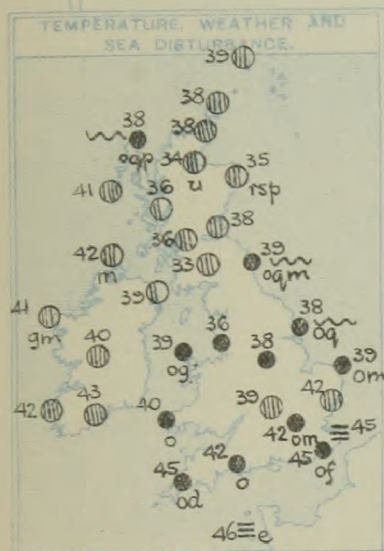
Light Northerly breezes; cloudy or dull, occasional rain; cool.

Moderate or light Northerly or North-Westerly winds; moderate sea; unsettled.



# GENERAL INFERENCE.

The depression over Belgium is likely to move very slowly eastward. The British area will remain under the influence of low pressure systems centred near the 50th parallel.



## 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

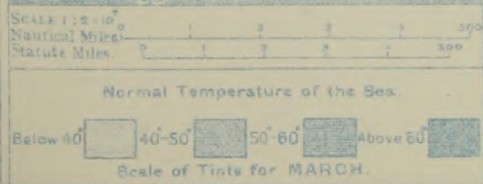
HIGH

HIGH

LOW

falling

rising



Inches  
31

30

29



REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	19 <sup>th</sup> AT 9 P.M. LOCAL TIME.						20 <sup>th</sup> AT 7 A.M. LOCAL TIME.										
		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.	Rain- fall. Milli- metres.	TEMP.	
				Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.
Archangel ...	1012.7	18	SE	1	S	-	-	-	-	-	N	2	*	-	*	-	*	-
Uleaborg ...	1016.7	21	W	2	b	1019.5	+1	18	-9	-	-	2	*	b	*	?	*	*
Helsingfors ...	1020.7	28	SW	2	S	1017.9	0	28	+5	NW	2	*	0	0	1	*	*	
Hangö ...	1021.9	30	WSW	2	S	1019.3	-1	30	+5	NNW	2	*	0	0	1	*	*	
Riga ...	1023.0	30	-	0	0	1020.2	-1	28	-	-	0	*	S	0	-	*	*	
Petrograd ...	1021.0	27	W	2	S	1015.9	-2	23	-2	WSW	1	-	S	*	-	28	21	
Moscow ...	1020.9	34	NNE	1	0	1016.8	-3	28	+1	SW	1	*	0	*	-	*	*	
Kiev ...	1021.9	32	N	1	0	1020.0	0	32	0	-	0	*	S	*	-	*	30	
Kharkov ...	1018.7	34	NNE	2	0	1016.9	0	28	-4	NNE	2	*	0	*	-	*	*	
Kishinev ...	1022.3	36	N	1	0	1020.8	-1	32	-2	NW	2	*	b	*	-	*	30	
Elisabetgrad ...	1019.6	32	N	5	b	1018.3	-1	32	0	NW	3	*	f	*	-	*	30	
Nicolaiev ...	1018.6	37	N	2	0	1017.3	*	32	-4	N	4	*	bc	0	-	*	30	
Odessa ...	1019.8	37	NE	5	0	1018.9	0	32	-4	NNE	3	*	0	0	-	*	32	

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

STATIONS.	Rainfall	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	Oban ... ..	—	48	42	c	bc.	0.2	England, E.	Lowestoft ... ..	—	48	42	cm	5.0 cm	1.5
	Banff ... ..	—	43	40	o bc	bc	0.1		Felixstowe ... ..	—	51	44	ba	bc. o	3.8
	St. Andrews ... ..	5	41	38	*	*	0.0		Walton-on-Naze ... ..	—	49	44	bcz. bc	b. b. o. cm	3.6
									Southend-on-Sea ... ..	1	52	45	oz. c	oz	0.7
Eng. N.E.	Harrogate ... ..	6	40	37	om	omr	0.0	England, S.E.	Margate ... ..	—	58	42	c bc	bc c	1.1
	Skegness ... ..	0.4	41	39	m	me	0.0		Ramsgate ... ..	—	55	43	z	z	1.7
									Hastings ... ..	1	55	48	sp. c	c. o.	0.4
									Eastbourne ... ..	2	55	45	o. bc. om	om	?
Eng. N.W.	Morecambe ... ..	2	44	41	do	od	0.0	England, S.W.	Seaford ... ..	3	55	45	r. o	r	0.2
	Blackpool ... ..								Brighton ... ..	4	54	47	r. o. r	r. o	0.0
	Southport ... ..	2	44	40	or	or. o	0.0		Worthing ... ..	5	52	47	g	r. o	0.0
									Littlehampton ... ..	6	51	46	d. r. o	d. r. o	0.0
Midlands.	Buxton ... ..	9	42	36	cr	cr	0.0		Bognor ... ..	7	52	46	or	o	0.0
	Leamington Spa ... ..	6	45	44	ofr	ofr	0.0		Southsea ... ..						
	Malvern ... ..	8	44	38	or	r	0.0		Bournemouth ... ..	3	55	45	or	or	0.0
	Ross-on-Wye ... ..	11	50	41	r	r	0.0								
Wales.	Rhyl ... ..	7	44	41	r	r	0.0	England, S.W.	Weymouth ... ..	1	53	43	z. o. c	c. or	0.0
	Colwyn Bay ... ..	3	43	40	ed	d. o	0.0		Torquay ... ..	—	54	43	o. c	c. o	1.5
	Llandudno ... ..	4	48	41	r	r	0.0		Paignton ... ..	—	57	?	o. bc	m	1.2
	Aberystwyth ... ..	1	52	46	r. o. c	e. c. o	0.3		Penzance ... ..	—	55	48	o bc	bc	6.5
	Tenby ... ..	2	55	44	bc	bc. c. o	1.2		Newquay ... ..	*	54	47	bc	b	2.3
									Hfracombe ... ..						
									Weston-super-Mare ... ..	3	51	43	c	cr	0.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obsy.) ...	90	97	0.0	55	41	41	7	adp	odp	odp
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	86	94	0.0	52	42	43	7	mr	om	ord. v
Camden Sq. (Brit. Rainfall)	88	95	0.1	56	41	41	6	ad. d.	o	*
Hampstead (Reservoir) ...	*	99	0.2	53	38	36	5	afd	or	or
Richmond Park ...	*	*	*	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	0.0	Total.			Average Rate.		Max. Rate.	
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				353 Joules			8.1 Milliwatts.		41 Milliwatts.	
S. Kensington (Roof of M.O.)	89	94	0.0							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	8	" F. 44	" F. 43	" F. 42	org*	odg	org	*
Darwen to 9 p.m.								
Manchester "	2	45	40	*	or	or. b	od. ag	0.0
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	0.3	56	44	37	bc pec	c. bc	bc. c	1.3
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	4	56	47	37	om. bow	or	om. o	*

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

21 <sup>st</sup> - 22 <sup>nd</sup> March, 1916.			
	Sunrise		Sunset.
	G.M.T.	G.M.T.	
Yarmouth ...	5.56	12.0	6.4
Greenwich ...	6.3	12.7	6.11
Wick ...	6.16	12.19	6.23
Valencia ...	6.44	12.48	6.52

## NOTES ON YESTERDAY'S WEATHER.

North-Easterly winds prevailed generally and considerable rain fell over England. The sky was generally overcast, but 7 hours of sunshine were experienced in the Hebrides and 5 hours at Falmouth.

NOTE.—The information relating to weather is indicated by the following letters—b, blue sky; bc, sky half clouded; c, sky large 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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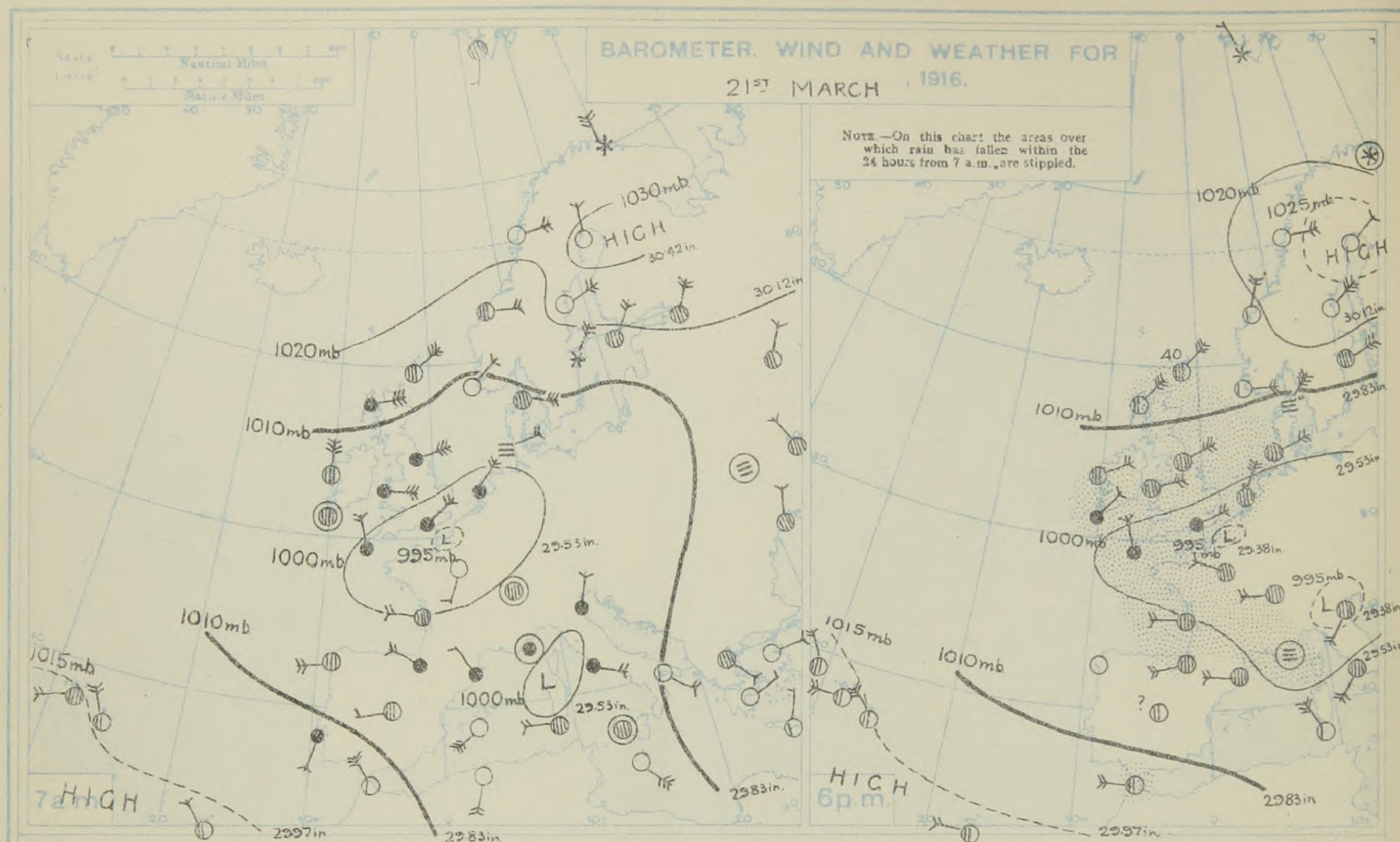


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 82

Wednesday  
22<sup>nd</sup> March

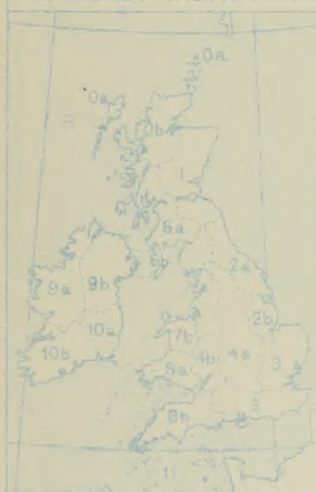
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. Dry Bulb.	Change in 3 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	1013.5	40	NE	6	cy	1017.1	0	38	-1	NE	4	-	o	4	1	42	35	cpq	cpq	c	Hours.
	Deerness (Orkney)	1011.5	39	NNE	6	c	1015.9	0	37	-1	NE	5	NE	bc	4	3	41	36	op o	o.c	c, bc	3.4
	Stornoway	1013.1	40	NE	6	bcq	1016.7	+2	40	+2	NE	6	-	cy	5	1	44	36	op, cy	bc, phq	cy	6.3
	Castletay (Barrisd.)	1009.8	42	NNE	3	o	1014.7	+3	39	-2	NE	3	NE	b	3	-	45	38	o, bc	c, o	o, bc, b	1.0
	Glasgow	1007.3	37	ENE	2	c	1012.9	+4	34	-2	ENE	2	W	c	*	0.3	41	33	c, or, sp	chp	bc, sp, o	2.0
	Eskdalemuir	1005.9	35	NE	5	o	1011.0	+3	32	-1	NE	5	-	o	*	0.2	38	31	cp, s, c, o	o	o, sp, o	2.2
	Malin Head	1006.3	40	ENE	5	cy	1010.9	+3	38	-4	E	5	E	cy	5	-	42	35	cy	cy	cy	0.1
	Blackod Point	1004.4	40	ENE	3	cm	1008.2	+3	37	-4	E	5	E	cm	4	0.1	42	36	cm	cm	cm	*
	Valencia	1001.0	41	NE	2	r	1003.8	+3	38	-4	ENE	3	SW	c	3	4	45	36	or	at, r	r, o, c	0.
	Roche's Point	1002.3	43	N	2	o	1004.5	*	39	-4	NE	1	-	o	2	2	43	39	op, or, o	r, o	o	*
	Birr Castle	1003.0	39	ENE	1	r	1006.5	*	35	-5	NE	1	NE	c	*	1	47	35	or, c	o, at, r	o, c	0.0
	Donaghadee	1004.6	42	ENE	4	bc	1009.6	+3	37	-2	E	5	E	cy	4	-	45	37	bc, m	bc	bc, cm, g	*
	Liverpool (Bidston)	1001.8	39	NE	3	o	1006.1	+2	36	0	NE	4	E	o	3	1	42	35	or	o	o	0.0
	Holyhead	1001.5	41	ENE	5	cm	1005.3	+2	38	-1	ENE	6	-	o	5	2	42	38	or, m	op, or, m	o, c, o	0.0
	Pembroke (St. Ann's)	999.5	39	E	2	or	1003.0	+2	36	-4	NNE	3	-	or	2	30	41	35	or	op, or	op	0.0
	Scilly (St. Mary's)																					
	Falmouth	997.8	41	NNW	2	org	1000.0	+3	38	-7	NNE	1	-	od	*	12	55	36	ode	de, or	od, r, d	0.0
	Jersey (St. Aubin)	996.8	44	WSW	4	op	997.9	*	43	-3	W	3	-	o	3	1	49	42	fe	fe, c	or, o	0.0
	Portland Bill	995.4	42	NE	4	o	997.9	+2	36	-6	ENE	4	NE	cp	3	1	43	36	o, c	o	or, c	*
	Dungeness	996.1	43	N	3	od	996.5	0	42	-3	ENE	4	-	or	4	4	46	41	for, o	or	or	*
Dover	995.8	42	NNE	5	r	999.0	+1	40	-5	NE	5	NE	r	6	9	46	39	for, r	or, r	op, r	0.0	
Wick	1011.1	40	NE	4	o	1015.4	+1	39	+1	NE	3	NE	s	4	2	42	36	op, r, s	op, r, s	o, cm, ph	*	
Nairn	1010.4	38	ENE	4	cy, g	1015.3	*	33	-1	-	0	-	os	1	2	43	32	c, bc	cy, ph	q, u, o	1.4	
Aberdeen	1009.2	38	NNE	3	c	1014.4	+1	36	+1	NNW	1	-	o	3	0.2	43	35	bc, r, sp	c, bc, p	c, o	3.7	
Leith	1007.1	39	NE	2	c	1012.8	+2	37	-1	E	2	E	c	5	-	41	35	c, de, c	b	c, o, c	*	
Tynemouth	1004.7	39	ENE	5	cy	1009.5	+3	36	-3	ENE	5	E	op, q, s	6	2	40	35	owp	cy	cy	*	
Spurn Head	1000.8	39	ENE	5	o	1004.7	+1	38	0	ENE	6	-	cy, r	5	3	39	34	o	o	cy, r	0.0	
Yarmouth	997.6	39	ENE	4	o	1001.7	+3	38	-1	ENE	5	-	owp	4	2	39	38	owp	owp	owp	0.0	
Clacton-on-Sea	996.8	40	NNE	4	r	1009.0	+3	39	-3	ENE	4	E	r	3	15	42	38	ogr	ogr	ogr	0.0	
Nottingham	1000.5	38	NE	5	r	1004.2	*	37	-1	NE	5	NE	o	*	4	39	35	r	rd	ro	0.0	
Benson (Oxon.)	997.7	36	NE	2	r	1001.0	+3	37	-2	NE	4	-	r	*	23	40	36	r	r	r	*	
St. Farnborough	997.2	39	NE	2	r	999.8	+2	36	-5	NNE	3	-	or	*	7	41	35	or	or	or	0.0	
London (Kew Obsv.)	997.8	40	ENE	3	owp	1000.4	+3	38	-4	NE	4	-	owp	*	10	42	37	owp, o	o, d, owp	owp, r, m	0.0	
NORTHERN EUROPE.	Spitsbergen	1015.9	9	NNW	1	s	1013.9	+3	5	-4	N	1	*	ws	*	10	3					
	Vardö	1019.1	19	-	0	s	1013.0	-3	21	0	N	2	-	s	3	*	21	10				
	Bodö	1024.0	16	E	4	b	1015.7	-6	12	-9	E	4	-	b	2	-	23	10				
	Christiansund	1018.0	32	NNE	2	o	1014.3	-3	30	-6	NE	2	-	c	4	-	37	26				
	Skudesnaes	1010.9	36	E	3	b	1013.6	+1	30	-4	-	0	-	b	1	-	43	30				
	Færder (Xaniafjord)	1014.6	27	NE	6	o	1015.4	0	19	-11	NE	6	E	b	2	-	30	19				
	The Scaw (Slagen)	1008.8	36	NE	6	m	1011.3	0	21	-11	ENE	6	NE	bc	6	-	32	21				
	Blaavands Huk	1001.9	34	ENE	4	o	1006.9	+3	25	-7	NE	5	-	o	5	2	36	23				
	Haparanda	1027.9	3	NE	2	b	1022.0	-2	-19	-10	N	2	-	b	*	-	10	-22				
	Hernösand	1024.6	5	NE	6	b	1019.7	-3	5	-5	NE	2	-	b	*	-	18	1				
Stockholm	1014.6	23	ENE	6	o	1010.9	-1	10	-15	NNE	6	-	b	*	Trace	30	7					
Wisby																						
Karlstad	1015.3	23	NNE	6	o	1014.4	-1	12	-11	N	4	-	b	*	-	28	9					
FRANCE, &c.	The Helder	997.0	39	NE	5	o	1001.3	+5	37	-2	NE	6	-	o	4	2	39	37				
	C. Gris Nez	996.4	45	NE	4	f	997.5	0	42	-4	ENE	4	*	r	3	5	48	37				
	La Hève	998.6	48	W	4	o	999.7	*	44	0	SSW	4	*	o	3	1	52	41				
	Brest (St. Mathieu)	999.1	48	WNW	4	f	998.9	+1	46	-1	N	3	*	o	2	-	50	45				
	Rochelort (de d'Aix)	1000.7	50	WSW	3	o	1001.6	0	48	-1	WSW	4	*	o	*	4	55	46				
	Biarritz	1004.7	53	WSW	4	o	1005.2	0	52	0	SSW	2	*	c	2	1	54	50				
	Paris	997.3	52	NNW	2	o	998.9	+1	45	+4	SSW	1	-	o	*	-	59	41				
	Belfort	997.7	46	W	3	r	1002.5	*	43	-3	W	3	*	o	*	4	59	41				
	Lyons	997.7	51	WSW	1	o	1002.2	*	44	-2	SSW	1	*	r	*	1	58	43				
	Nice	997.2	49	-	0	f	998.7	+2	47	+2	-	0	*	bc	3	2	50	43				
Perpignan	1002.4	54	W	3	o	1005.0	+2	50	0	W	1	-	b	*	-	61	46					
Sanguinaire	*	58	W	5	r	*	*	53	-1	NW	4	*	o	4	8	59	48					
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1007.7	52</																			





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

Wind mainly North-Easterly, moderate, fresh or strong at times; much cloud, some snow, sleet or rain; low temperature.

North-Easterly winds, moderate or fresh; rainy, sleet locally, improving gradually later, misty; rather colder.

Same as Nos. 0 to 4.

North-Easterly winds, light or moderate; some rain, sleet or snow locally; colder.

Northerly or North-Easterly winds, light or moderate; sea slight or moderate; some rain and mist.

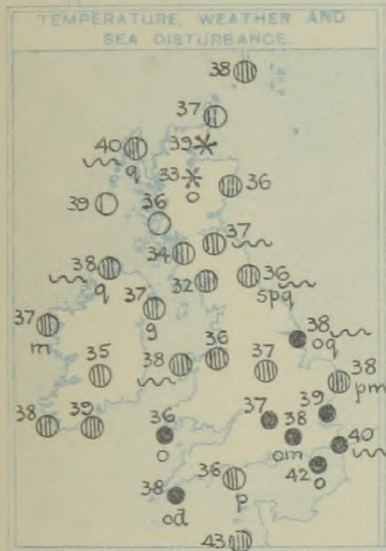
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 22<sup>nd</sup> MARCH, 1916.

## GENERAL INFERENCE.

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



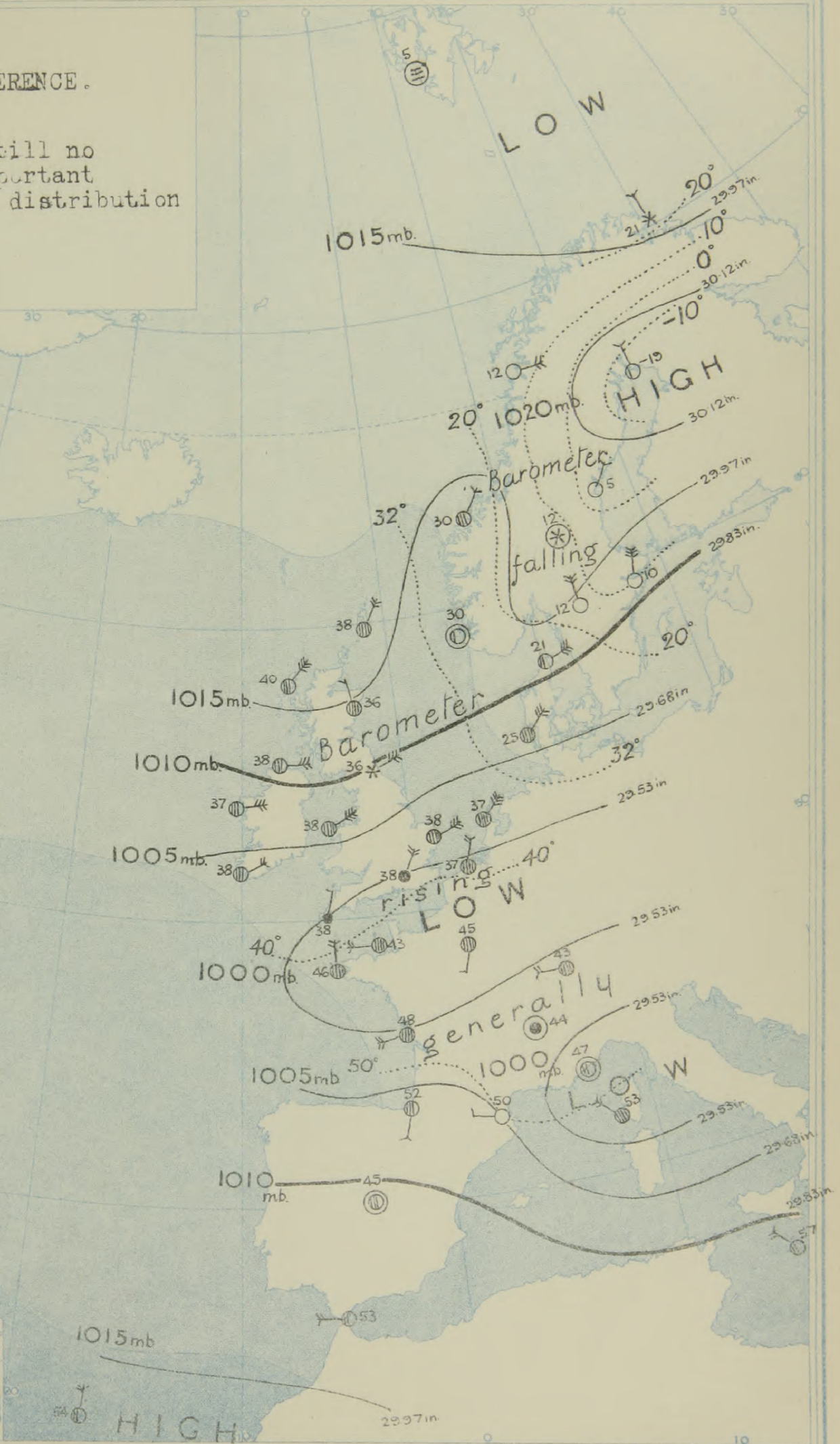
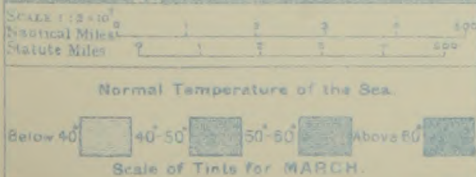
## EXPLANATION.

**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. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches.  
— 31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	20 <sup>th</sup> AT 9 P.M. LOCAL TIME.					21 <sup>st</sup> AT 7 A.M. LOCAL TIME.										Sea 0-9.	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.						
			Dir.	Force 0-12.				° F.	° F.	Dir.	Force 0-12.								
Archangel ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uleaborg ...	10266	7	E	2	bc	10274	0	0	-18	E	4	*	z	*	*	*	*		
Helsingfors ...	10135	28	ENE	1	0	10189	+2	18	-10	E	4	*	S	*	*	*	*		
Hangö ...	10186	28	-	0	0	10166	0	27	-3	NE	3	*	0	0	*	*	*		
Riga ...	10175	30	-	0	0	-	-	-	-	-	-	*	-	-	-	*	*		
Petrograd ...	10181	27	NNE	3	0	10210	+9	5	-18	NE	4	-	0	*	*	30	3		
Moscow ...	10135	28	NNW	4	0	10156	+2	23	-5	NE	3	*	0	*	*	*	21		
Kiev ...	10175	34	-	0	0	10150	+2	48	+16	-	0	*	f	*	*	*	32		
Kharkov ...	10135	32	NW	2	0	10129	+1	32	+4	NNW	2	*	0	*	*	*	*		
Kishinev ...	10194	37	E	1	0	10167	0	34	+2	SE	2	*	0	*	*	*	32		
Elisabetgrad ...	10177	34	N	2	0	10167	+1	32	0	-	0	*	0	*	*	*	32		
Nicolaiev ...	10180	37	NW	2	0	10176	*	32	0	-	0	*	0	0	*	*	30		
Odessa ...	10186	36	NNE	3	0	10175	0	34	+2	NNE	2	*	0	0	*	*	32		

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

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.	WEATHER.	Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.						
		°F.	°F.								
Scotland.							England, E.				
Oban ...	-	46	34	bc	c	2.6	Lowestoft ...	8	44	38	or. o
Banff ...	1	42	34	bc	cs, bc, c	3.8	Felixstowe ...	12	41	?	or. o
St. Andrews ...	-	-	-	*	*	-	Walton-on-Naze ...	11	40	39	or. o
England, N.E.							Southend-on-Sea ...	2	42	?	or. o
Harrogate ...	11	40	34	o	op	0.0	Margate ...	1	44	42	od
Skegness ...	2	39	38	gr	g	0.0	Ramsgate ...	3	44	40	r
England, N.W.							Hastings ...	6	41	41	or. o
Morecambe ...	-	42	37	oc	o. c	0.0	Eastbourne ...	4	49	42	od
Blackpool ...	-	-	-	-	-	-	Seaford ...	6	53	41	r
Southport ...	5	43	37	r	o. c. o	0.0	Brighton ...	4	46	45	r
England, S.E.							Worthing ...	9	45	42	r
Buxton ...	2	37	33	cr	cr	0.0	Littlehampton ...	9	51	42	d
Leamington Spa ...	10	39	38	or. o	or. o	0.0	Bognor ...	-	-	-	-
Malvern ...	12	39	36	r	r	0.0	Southsea ...	-	-	-	-
Ross-on-Wye ...	7	41	36	r	r	0.0	Bournemouth ...	5	42	41	r
Midlands.							England, S.W.				
Rhyl ...	12	42	36	r	r. o	0.0	Weymouth ...	5	42	40	op
Colwyn Bay ...	17	41	36	cr	or	0.0	Torquay ...	6	52	39	o
Llandudno ...	21	44	37	r	r. c	0.0	Paignton ...	5	43	38	o
Aberystwyth ...	8	45	38	r. o	o. or	0.0	Penzance ...	9	44	41	or
Tenby ...	5	49	40	or	r	0.0	Newquay ...	*	43	39	od. r
Wales.							Ilfracombe ...	-	-	-	-
							Weston-super-Mare ...	7	42	39	r

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	3 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	* F.	* F.	* F.	mm. §			
Greenwich (Royal Obs.) ...	92	93	00	41	36	36	13	ocl	od	orad
City (Bunhill Row) ...	*	*	00	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	92	92		47	38	39	14	or	od	ador
Camden Sq. (Brit. Rainfall)	92	93	00	42	37	36	16	orad	ador	*
Hampstead (Reservoir) ...	*	96	00	41	33	30	16	or	or	ors
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	00	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 158 Joules		Average Rate. 3.6 Milli-watts.		Max. Rate. 11 Milli-watts.		
S. Kensington (Roof of M.O.)	92	92	00							

## Additional Observations for Yesterday.

STATIONS.	Rain- fall. mm. & .	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day.
		Max.	Min.					
		°F.	°F.					
Dublin to 4 p.m.	-	-	-	-	-	-	-	*
Darwin to 9 p.m.	2	38	34	33	or	or. o	od	00
Manchester "	0.4	42	37	*	op. o	o	o	00
Birmingham "	-	-	-	-	-	-	-	*
Oxford to 8 p.m.	-	-	-	-	-	-	-	*
Teignmouth to 9 "	5	43	38	40	or. o	ood	od	00
Plymouth "	-	-	-	-	-	-	-	*
S. Kensington (Museum Grounds to 6 p.m.)	7	48	40	43	oor	ador	ador	*

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> March 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	{ 3.32	12.0	6.6
Greenwich ...	{ 3.59	12.7	6.13
Wick ...	{ 6.13	12.19	6.25
Valencia ...	{ 6.42	12.48	6.56

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° over a large portion of the Kingdom and below 40° in many places. Rain fell very generally; 23 mm. at Benson and 30 mm. at Pembroke. No sunshine was recorded except in Scotland.

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. 83. Thursday, 23rd March.

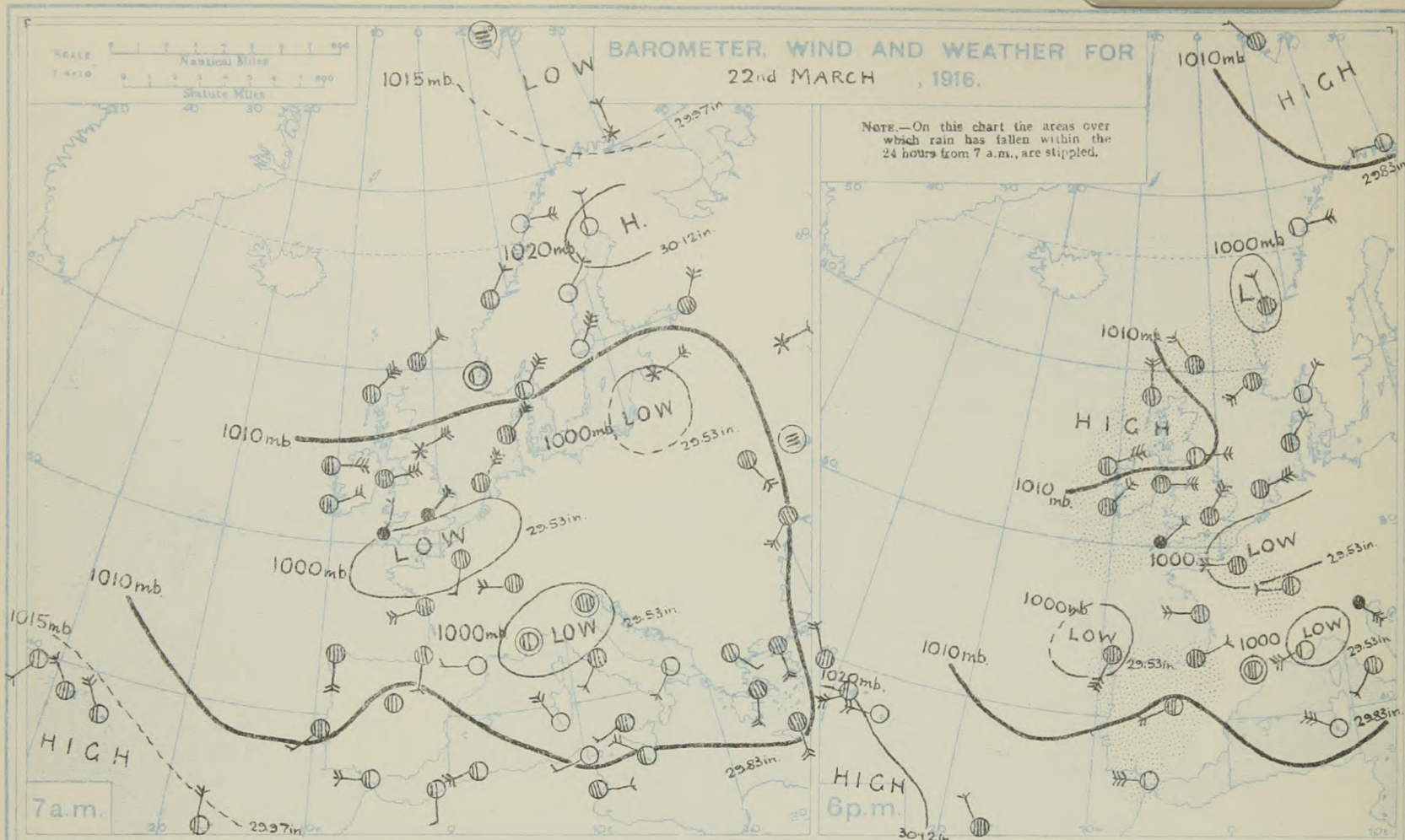
STATIONS.		YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Force 0-12.	Dir. of Upper Cloud.	Weather.	Sea 0-2.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.							Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	1006.8	36	NW	3	0	996.4	-3	31	-7	NW	2	-	S	2	6	41	29	0	osp	0 CS	Home.
	Deerness (Orkney) ...	1008.4	38	WNW	3	0p	998.3	*	33	-4	NW	4	NE	bcx	4	2	42	32	bc f	cb.0	0 cph bc	0.2
	Stornoway ...	1012.7	40	N	4	cb	1003.3	-2	31	-9	N	5	-	cqr	5	5	45	31	c-bc	bc.0p	cbrsq	4.2
	Castlebay (Barra Isd.) ...	1013.0	42	N	3	bc	1004.2	-1	33	-6	N	3	N	b	3	2	46	31	bc	bc	ohsp b	9.2
	Glasgow ...	1011.6	37	E	1	og	1001.2	-3	31	-3	NNE	2	-	S	*	2	41	30	c	0.0 bc.0	c bx os	4.1
	Eskdalemuir ...	1011.2	32	NE	3	b	1001.1	-4	28	-4	ENE	2	-	osp	*	0.1	37	22	ops.0	c bc b	c bcx	4.4
	Malin Head ...	1012.4	40	ENE	3	bc	1002.9	-5	35	-3	N	5	N	bcq	5	3	40	33	cg	bc	cqps	4.2
	Blackod Point ...	1011.4	39	ENE	5	cv	1005.2	-3	35	-2	NE	3	NE	cpr.5	3	2	42	33	cg	bc	bc ors	*
	Valencia ...	1006.6	41	NE	4	0	1006.5	0	34	-4	NNE	2	NE	bx	2	-	44	32	c.0	c.0z	0 c bc b	2.3
	Roche's Point ...	1008.7	39	NE	3	0	1006.9	*	33	-6	N	2	-	b	2	0.2	42	33	0	0	0 b	*
	Birr Castle ...	1009.1	38	ENE	2	c	1005.5	*	28	-7	SE	1	-	c	*	0.3	42	25	cph	cph	cg	2.0
	Donaghadee ...	1011.1	39	E	4	c	1001.8	-2	35	-2	N	4	W	ogm	3	Trace	41	33	cmg	bc	agmps	*
	Liverpool (Bidston) ...	1008.4	35	NE	3	0	1003.2	-3	30	-6	ENE	1	-	b	1	-	38	29	0	0	0 bx	0.0
	Holyhead ...	1008.3	38	E	5	om	1003.3	-2	32	-6	S	2	-	ops	1	Trace	40	30	om	op. ps	0 bx co	0.0
	Pembroke (St Ann's) ...	1005.9	38	NE	3	0	1003.9	0	34	-2	E	2	E	c	2	0.4	42	33	op.0	0	0 c	0.0
	Scilly (St. Mary's) ...	1003.0	40	ENE	2	org	1001.9	0	35	-3	NE	2	-	0	*	3	42	34	0	od or	0 c.0	0.0
	Falmouth ...	1000.2	43	NE	3	opd	999.8	*	40	-3	NE	3	-	opd	3	1	44	39	0 c	opd	opd	0.0
	Jersey (St. Aubin) ...	1001.9	40	NE	4	0	1001.3	-1	34	-2	NE	3	NE	0	3	2	44	33	cp.0	0	0 c	*
	Portland Bill ...	1001.9	40	NE	4	0	1001.3	-1	34	-2	NE	3	NE	0	3	2	44	33	cp.0	0	0 c	*
	Dunegness ...	999.5	39	ENE	5	cqr	999.8	0	35	-7	NE	3	-	0p	4	6	42	35	or. bcq	qr	or 0	*
	Dover ...	999.5	39	ENE	5	cqr	999.1	0	35	-5	N	5	N	bsr	3	8	39	33	0	0	ord ps	0.0
NORTHERN EUROPE.	Wick ...	1010.2	37	WNW	1	c	1001.3	-1	29	-10	WNW	1	-	bc	2	3	42	29	ph c	c ombs	cms bc	*
	Nairn ...	1011.5	39	-	0	c	1001.5	*	32	-1	-	0	-	bc	2	5	43	31	brs bc	bc	u cps	2.5
	Aberdeen ...	1010.3	38	NW	2	c	999.9	-2	31	-5	NW	3	W	bc	3	3	44	31	op bc	ors pc	c. asp	1.5
	Leith ...	1011.0	37	NE	2	0	1002.5	-1	33	-4	NE	1	-	S	3	1	42	22	c o bc	c o c o	0 c os	*
	Tynemouth ...	1010.3	35	E	4	bc	1001.4	-5	31	-5	WNW	2	W	cgm	4	-	36	29	agph	bc	cgm	*
	Spurn Head ...	1007.1	35	E	6	0	1003.1	-1	33	-5	E	3	-	cv	4	0.3	38	31	agps	agps	0 cph	0.0
	Yarmouth ...	1004.1	36	ENE	5	omp	1000.3	-1	33	-5	NNE	2	-	0	2	1	39	33	omp	omp	ops	0.0
	Clacton-on-Sea ...	1002.5	37	NNE	4	r	1001.1	0	33	-6	N	3	NE	0	2	2	40	33	ogr	ogr d	ogr d	0.0
	Nottingham ...	1006.9	36	NE	4	0	1002.8	*	32	-5	ENE	1	E	c	*	0.2	37	31	os	osh	os	0.0
	Benson (Oxon.) ...	1003.8	36	NE	4	0	1002.2	-1	32	-5	NE	2	-	0	*	1	39	31	r.0	0	0	*
FRANCE, &c.	St. Paraborough ...	1002.6	37	NE	4	0	1001.3	-1	32	-4	NE	2	-	os	*	1	41	31	r.0	0	ors s	0.0
	London (Kew Obs.) ...	1003.4	38	NE	5	0	1001.8	-1	32	-6	NNE	2	-	os	*	2	40	32	0	0	0 os	0.0
	Spitsbergen ...	1013.3	3	NW	1	c	1013.3	0	-11	-16	SE	2	*	b	*	*	10	-15				
	Vardö ...	1011.4	18	W	2	bc	1007.7	-3	18	-3	SW	5	-	bc	3	*	23	16				
	Bodö ...	1006.7	16	E	4	b	1004.8	-3	12	0	E	4	-	b	2	-	18	9				
	Christiansund ...	999.3	32	NW	2	0	995.3	0	32	+2	SE	3	-	c	3	1	34	30				
	Skudesnaes ...	1004.3	32	SW	4	0	994.9	-4	36	+6	SE	6	-	0	4	Trace	32	27				
	Færder (Xtantarford) ...	1006.4	27	SSW	2	b	1001.6	0	27	+8	SSW	6	-	S	3	?	27	19				
	The Scaw (Skagen) ...	1007.9	25	NE	3	b	1004.3	0	27	+6	SSW	3	-	c	3	-	27	19				
	Blaavands Huk ...	1007.3	25	NE	3	c	1003.5	0	21	-4	E	1	-	b	1	-	30	12				
SOUTHERN EUROPE.	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...														*							
	Karlstad ...														*							
	The Helder ...	1003.1	34	ENE	6	0	1000.2	0	32	-5	NE	3	-	0	2	-	37	32				
	C. Gris Nez ...	998.7	38	NE	6	r	999.3	+2	37	-5	NE	4	*	0	3	4	43	37				
	La Hève ...	999.1	42	NNE	3	r	997.3	*	38	-6	NE	1	*	0	2	3	46	37				
	Brest (St. Mathieu) ...	1000.7	47	NE	3	0	999.5	0	42	+4	ENE	3	*	0	3	-	50	39				
	Rochefort (Ile d'Aix) ...	1001.9	50	W	4	c	997.5	0	43	-5	SE	3	*	c	*	-	55	43				
ITALY.	Biarritz ...	1002.4	53	ENE	2	0	997.2	+1	54	+2	WSW	4	*	r	3	2	59	50				
	Paris ...	997.9	46	WSW	2	0	998.4	0	41	-4	W	2	-	0	*	2	54	41				
	Belfort ...	1001.1	44	W	2	c	1001.1	*	43	0	WSW	4	*	c	*	1	54	39				
	Lyons ...	1002.4	49	ESE	1	bc	1001.2	*	43	-1	SE	1	*	b	*	-	58	40				
	Nice ...	999.1	53	WSW	5	b	1002.5	0	47	0	-	0	*	0	4	-	64	45				
	Perpignan ...	1003.9	54	-	0	c	999.0	-3	48	-2	-	0	-	bc	*	-	66	41				
	Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Corunna (7 a.m.) ...	998.1	51	SSW	6	0	1001.6	+6	48	0	SSE	2	-	0	*	13	55	48				
	Madrid (8 a.m.) ...	1013.0	52	WSW	3	c	1008.6	+4	43	-2	W	4	-	bc	*	3	?	?				
	Lisbon (7 a.m.) ...														*							
YESTERDAY'S REPORTS	Gibraltar ...	1012.5	58	W	6	b	1012.5	*	55	+2	NW	5	*	c	3	6	64	53				
	Malta (8 a.m.) ...	*	*	*	*	*	1015.4	+2	59	+2	S	1	-	b	0	-	64	54				
	Azores (Horta, 8 a.m.) ...	1021.3	*	WSW	5	bc									*							
	Madeira (Funchal) ...	1016.4	61	NW	2	0	1016.4	0	55	+1	NW	2	-	bc	2	-	63	54			</	

## NOTES

Glasgow: Depth of snow lying - one inch.

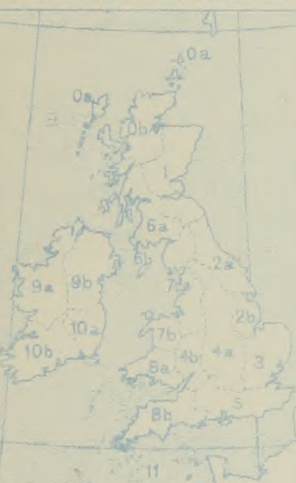
## RAINFALL





# 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  | a | } | Wind between North and North-West, light or moderate; changeable; snow showers; temperature low.                      |
| 1  | b |   |   |
| 2  | a | } | Wind light or moderate, mainly between North and North-East; dull generally, snow or sleet at times; low temperature. |
| 3  | b |   |   |
| 4  | a | } | Wind light or moderate from some Northerly point; changeable; snow or sleet showers; low temperature.                 |
| 5  | b |   |   |
| 6  | a | } | Northerly and North-Easterly winds, light or moderate; sea slight; some sleet showers.                                |
| 7  | b |   |   |
| 8  | a | } |   |
| 9  | b |   |   |
| 10 | a | } |   |
| 11 | b |   |   |

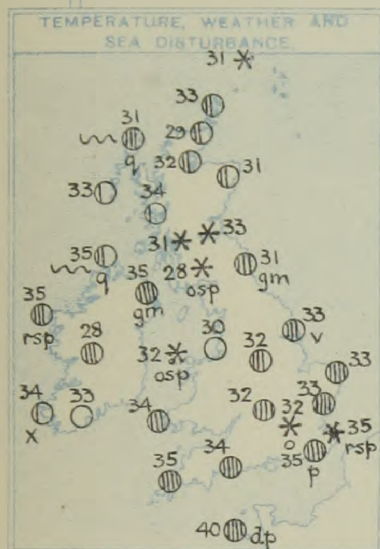
## FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 23<sup>RD</sup> MARCH, 1916.

## GENERAL INFERENCE.

The barometrical changes in progress are slight, and no great modification in the general distribution of pressure is probable 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:—

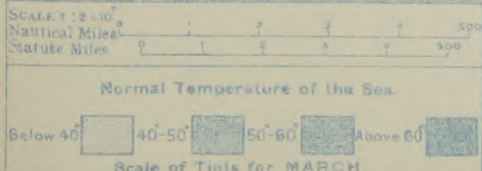
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 2/3 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. ⚡, thunderstorm.

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

Barometer falling

Bar. rising slightly W

Bar. 35 steady





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...22.5° AT 9 P.M. LOCAL TIME.					...22.5° 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. Dry Bulb. ° F.	Change in 24 hours.	WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.					
			Dir.	Force 0-12.						Dir.	Force 0-12.								
Archangel ...	10230	1	SW	1	b	-	-	-	-	-	-	-	-	-	-	-	-		
Uleaborg ...	10265	-1	NE	3	o	10223	-1	-11	-11	E	2	*	b	*	*	*	*		
Helsingfors ...	10098	4	ENE	3	o	10127	-5	1	-17	NE	3	*	o	o	Trace	*	*		
Hangö ...	10185	18	E	3	s	10111	-5	5	-22	ENE	3	*	o	o	*	*	*		
Riga ...	10059	28	SNE	3	o	9963	-4	27	-	ENE	4	*	s	o	*	*	*		
Petrograd ...	10208	7	NE	4	b	10150	-4	-2	-7	NE	4	*	o	*	-	9	-4		
Moscow ...	10094	27	NE	2	b	10172	-3	12	-11	E	2	*	s	*	-	*	10		
Kiev ...	10118	32	E	4	o	10061	-2	34	-14	SSE	4	*	o	*	-	*	32		
Kharkov ...	10171	34	NNW	1	bc	10173	0	27	-5	-	0	*	f	*	-	*	*		
Kishinev ...	10114	34	SE	4	o	10070	-1	37	+5	ESE	4	*	o	*	-	*	32		
Elisabetgrad ...	10144	32	ESE	2	b	10126	-2	32	0	SSE	3	*	c	*	-	*	28		
Nicolaiev ...	10170	36	SE	2	b	10119	*	32	0	SE	5	*	bc	o	-	*	28		
Odessa ...	10147	39	S	4	o	10104	-3	39	+5	SW	4	*	o	o	-	*	34		

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.			
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.				
	mm. &	° F.	° F.			Hr.		mm. &	° F.	° F.			Hr.			
Scotland.	Oban ... ..	-	46	35	b	b	6.0	England, E.	Lowestoft ... ..	2	45	36	or	op.	0.0	
	Banff ... ..	6	43	35	prs. bc	bc c.	1.8		Felixstowe ... ..	9	40	37	or	or	0.0	
	St. Andrews ... ..	-	39	35	*	*	0.3		Walton-on-Naze ... ..	9	34	36	or ocd.	ocd.	0.0	
									Southend-on-Sea ... ..	5	42	38	r	or	0.0	
Eng. N.E.	Harrogate ... ..	-	35	32	o	o	0.0	England, S.E.	Margate ... ..	3	41		d	d	0.0	
	Skegness ... ..	2	38	34	or sp.	sp. o.	0.0		Ramsgate ... ..	8	40	37	r	r	0.0	
Eng. N.W.	Morecambe ... ..	-	40	36	c bc	bc	3.0		Hastings ... ..	7	42	37	or	or. o	0.0	
	Blackpool ... ..								Eastbourne ... ..	6	47	39	or	o	0.0	
	Southport ... ..	-	39	36	o	o c o	0.0		Seaford ... ..	5	42	38	r	r. o	0.0	
									Brighton ... ..	1	42	39	or	ro	0.0	
									Worthing ... ..	4	41	38	o	o	0.0	
									Littlehampton ... ..	2		37	o	o	0.0	
Midlands	Buxton ... ..	-	35	31	c	c	0.0		Bognor ... ..	3	42	37	or	o	0.0	
	Leamington Spa ... ..	3	39	36	oph	oph.	0.0		Southsea ... ..							
	Malvern ... ..	5	38	34	o	o	0.0	Bournemouth ... ..	-	42	37	o	o	0.0		
	Ross-on-Wye ... ..	8	39	34	om	f m	0.0									
Wales.	Rhyl ... ..	-	38	36	o	o	0.0	England, S.W.	Weymouth ... ..	3	42	37	ro	om	0.0	
	Colwyn Bay ... ..	-	38	37	c	bc	0.0		Torquay ... ..	2	42	32	op	o	0.0	
	Llandudno ... ..	-	39	37	c	c	0.0		Paignton ... ..							
	Aberystwyth ... ..	3	41	36	ro c	c o	0.2		Penzance ... ..	4	43	39	or	or	0.0	
	Tenby ... ..	1	49	36	bc. o	og	0.8		Newquay ... ..	2	42	37	or	or.	0.0	
									Ilfracombe ... ..	4	42	40	o	o	0.0	
									Weston-super-Mare ... ..	2	41	36	c	c.	0.0	

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall. mm. & ° F.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.	Min. on Grass.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.	Min. on Grass.				
Greenwich (Royal Obs.) ...	84	86	00	40	32	32	2	or	cd o	o os
City (Runhill Row) ...	*	*	00	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	77	92	00	41	35	35	2	or	oe or	or os
Camden Sq. (Brit. Rainfall)	72	84	00	41	32	31	2	or	o	*
Hampstead (Reservoir) ...	*	82	00	38	28	26	2	or	od o	or os
Richmond Park ...	*	*	00							
Kew. (See front page.)	*	*	00							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	79	88	00							
				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
				Total.	Average Rate.	Max. Rate.				
				335 Joules	7.6 Milliwatts.	23 Milliwatts.				

## Additional Observations for Yesterday.

STATIONS.	RAIN FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	min &	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.	1	41	37	35	opq	ophsc	oph	*
Darwen to 9 p.m.	-	36	32	32	oa	oa	oa	0.0
Manchester "	Trace	39	35	*	op.o	o	o	0.0
Birmingham "	*				*			*
Oxford to 8 p.m.	*							*
Teignmouth to 9,,	9	43	37	36	odr.o	o	o	0.0
Plymouth "	"							
S. Kensington (Museum Grounds to 6 p.m.)	11	41	40	38	or	or.og	og	*

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

March 22nd to 24th 1916.	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 5.52 12.0	G.M.T. 12.0 6.10	G.M.T. 6.10 12.0
Greenwich ...	5.59 12.7	12.7 6.15	6.15 12.7
Wick ...	6.10 12.9	12.9 6.30	6.30 12.9
Valencia ...	6.40 12.38	12.38 6.56	6.56 12.38

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° very generally  
— below 40° at many stations. Snow or sleet fell  
in all districts. Hardly any sunshine was recorded  
in England and little in Ireland, but in some  
Scottish localities the day was bright.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
o. 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.

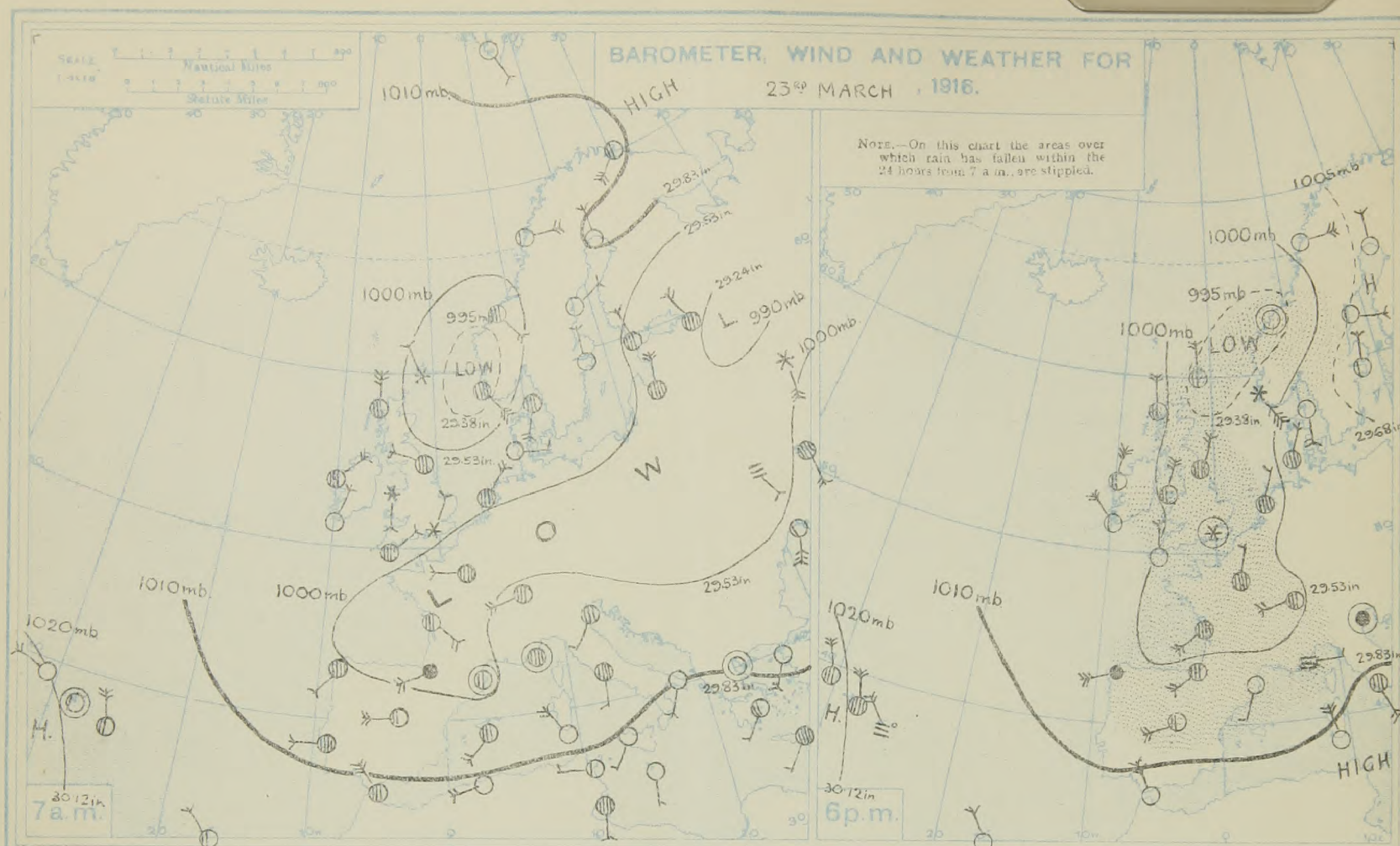
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 84. (111449) 24<sup>th</sup> March.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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.		Wind.		Direc. of Upper Cloud	Weather.	Sea 9-10.	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 ...	994.7	35	NNW	3	bc	996.8	2	37	+2	NNE	4	-	bc	4	5	38	30	s. bc	bc	bcp	Hours
	Deerness (Orkney) ...	995.5	35	NW	4	bc	996.6	1	35	+2	N	4	NE	bc	3	7	37	33	bc, cbs	ops c bc	bc	2.1
	Stornoway ...	1000.3	37	N	4	bc	1000.0	0	35	+4	N	3	-	bc	3	3	41	31	bcp, b	bcp	bcp	6.1
	Castlebay (Barra Isd.) ...	1001.9	39	NNW	3	bc	1000.6	0	38	+5	NNW	2	-	c	2	1	42	32	b, sph, b	b, o. bc	bc	8.9
	Glasgow ...	999.1	38	N	1	b	997.7	-1	33	+2	W	2	N	b	0.2	41	30	sp c bc	bc, c	c bcp	6.1	
	Eskdalemuir ...	999.2	28	NNW	2	bc	997.9	0	20	-8	-	0	-	c	5	33	11	os	os bc b	b bc	3.2	
	Malin Head ...	1001.6	38	N	4	bcq	999.5	0	39	+4	N	5	N	bcq	6	-	40	34	bcq, ph	bcq	bcq	9.2
	Blacksod Point ...	1003.4	33	NNE	5	bcq, ph	1002.3	-2	35	0	NNE	2	NE	bc	3	6	41	31	bcq, ps	bcq, ph	bcq, ps	8.3
	Valencia ...	1002.7	42	NW	4	b	1004.6	+1	37	+3	N	2	N	bcx	3	-	45	32	c, b	c, b	bc, b	8.3
	Roche's Point ...	1002.4	44	NNW	3	c	1003.5	1	33	0	NNW	2	-	b	2	0.2	45	32	b, bc, c	c	c, b	4.5
	Birr Castle ...	1001.2	38	NE	1	c	1001.2	0	26	-2	W	1	-	c	2	44	25	cps	c	c	4.5	
	Donaghadee ...	999.7	36	N	4	bc	998.3	-1	39	+4	N	4	N	bcu	3	Trace	41	34	bc	bc, ps	bc, ps	1.0
	Liverpool (Bidston) ...	997.0	35	WSW	3	o	997.8	0	32	+2	N	1	-	b	2	1	37	30	b, os	os	c, b	3.0
	Holyhead ...	998.9	40	NNE	5	bc	998.7	+1	35	+3	NE	5	N	cps	4	4	42	32	ops	ops, c	ops, c	5.7
	Pembroke (St. Ann's) ...	1001.0	38	N	3	bc	999.8	+1	34	0	N	3	N	cps	2	1	42	29	c	c, c	bcp	5.7
	Scilly (St. Mary's) ...	999.6	37	N	2	bz	999.7	+2	31	-4	N	2	-	b	1	42	30	o. bc	bc, b	b, os, b	3.4	
	Falmouth ...	997.9	42	NNE	2	c	997.1	-1	38	-2	NNW	3	N	c	2	4	45	36	ops, o	o, bc, c	c, op, c	1.3
	Jersey (St. Aubin) ...	999.0	37	NNE	2	c	996.4	-1	34	0	NNE	3	-	b	3	-	38	33	o, c	c	c, bc	1.0
	Portland Bill ...	999.0	37	NNE	2	c	996.4	-1	34	0	NNE	3	-	b	3	-	38	33	o, c	c	c, bc	1.0
	Dungeness ...	998.6	38	E	2	o	994.5	-1	36	+1	NE	4	-	ops	4	9	40	28	o, c, o	o, c, o	ops	0.0
	Dover ...	999.6	36	N	1	o	995.6	-1	33	-2	NE	4	NE	s	4	4	40	32	ops, s	o	ops	0.0
	Wick ...	995.1	35	NW	3	c	997.0	+1	37	+8	N	4	-	bc	4	4	39	28	bc, cbs	c, ps	bc, ps	3.8
	Nairn ...	998.1	36	NW	1	bc	998.2	0	34	+2	NW	1	-	bc	2	2	38	31	bc, c	c, ps	c, ps	5.2
	Aberdeen ...	996.2	37	WNW	4	c	995.9	+1	34	+3	NW	3	-	b	3	1	41	31	bc, b	c, ops	c, ops	5.2
	Leith ...	997.7	38	NW	1	c	996.5	0	35	+2	NW	1	NW	c	3	3	41	31	s, ac, b	b	c, bc	1.0
	Tynemouth ...	997.8	36	NNE	3	o	996.5	-1	27	-4	WNW	3	NW	bcu	3	1	36	27	ops, ps	ops, ps	bcu	3.1
	Spurn Head ...	998.5	36	S	4	c	996.9	-1	34	+1	WSW	4	-	om	4	0.2	40	30	bcv	bc	s, om	3.1
	Yarmouth ...	999.3	34	NE	1	c	996.8	-2	34	+1	ENE	2	-	bc	2	-	36	30	o, c	c	om, bc	0.0
	Clacton-on-Sea ...	995.2	36	ENE	1	o	996.3	-1	36	+3	N	2	NE	c	2	-	39	33	o, c, bc	bc, c, o	o, c	4.0
	Nottingham ...	998.2	36	S	2	s	997.1	0	28	-4	S	1	-	bm	2	Trace	40	27	c, bm	bm	c, os	4.5
	Benson (Oxon.) ...	999.5	35	NE	1	c	997.1	0	26	-6	-	0	-	b	2	-	36	25	o	bc	b	4.5
	St. Farnborough ...	999.2	34	-	0	o	996.4	0	28	-4	NW	1	S	bcx	2	Trace	36	25	s	s, o, s	bc, bcx	0.0
	London (Kew Obs.) ...	999.5	36	-	0	oms	996.7	0	32	0	N	1	-	omx	2	0.1	37	31	os, ms, os	os, ms	omx, om	0.0
NORTHERN EUROPE.	Spitsbergen ...																	UPPER AIR.				
	Vardö ...																	South Farnborough.				
	Bodö ...	1001.3	12	E	4	b	1000.0	-1	12	0	E	4	-	b	2	-	18	9	Pilot Balloon Ascent at 7.15 am.			
	Christiansund ...	994.7	34	-	0	b	996.3	0	30	-2	-	0	-	s	3	-	36	30	Wind at 8000 feet N by E 16 mph.			
	Skudesnaes ...	995.8	30	SE	8	s	996.4	0	28	-8	SE	8	-	o	5	-	36	28	" " 4000 " " 13 "			
	Færder (Xania Fjord) ...	1002.3	28	S	6	c	1002.3	0	28	+1	SSE	4	-	c	2	-	28	27	" " 6000 " " 12 "			
	The Scaw (Skagen) ...	1003.8	27	S	3	b	1001.7	-1	25	-2	SE	3	-	bc	3	-	28	23	" " 5000 " " 13 "			
	Blavands Huk ...	1001.3	30	NNE	2	o	999.7	0	27	+6	ESE	1	-	o	2	-	32	19	" " 4000 " " 12 "			
	Haparanda ...	1006.0	1	N	2	b	1009.9	+3	-9	+4	N	2	NW	c	2	-	14	-13	" " 3000 " " 15 "			
	Hernösand ...	1006.6	5	E	2	b	1005.5	0	10	0	E	2	-	s	2	-	12	-4	" " 2000 " " 15 "			
FRANCE, &c.	Stockholm ...	1007.0	16	N	2	b	1006.9	0	18	+17	ESE	2	-	c	2	-	13	1	" " 1000 " " 11 "			
	Wisby ...	1007.0	18	E	2	b	1004.3	-2	23	+5	E	2	-	bc	1	-	23	12	" " Surface NNW 5 mph.			
	Karlstad ...	1005.0	21	-	0	o	1005.1	0	18	+6	-	0	-	c	2	-	21	10				
	The Helder ...	998.9	34	NNE	1	o	996.3	-3	34	+2	NE	2	-	o	1	-	34	30				
	C. Gris Nez ...	998.4	37	ENE	3	o	994.4	-1	32	-5	ENE	4	-	s	3	-	41	32				
	La Hève ...	998.0	41	N	1	o	993.0	0	36	-2	N	2	-	o	2	-	43	36				
	Brest (St. Mathieu) ...	998.0	42	NNE	5	o	999.4	+2	39	-3	NE	3	-	c	3	-	50	36				
	Rochefort (Ile d'Aix) ...	997.5	50	SW	4	o	997.5	+5	45	+2	NW	6	-	o	2	-	55	43				
	Biarritz ...	1002.0	55	SW	3	c	1000.8	0	52	-2	WSW	2	-	o	3	-	55	46				
	Pau ...	998.3	43	NE	1	o	991.3	0	43	+2	SW	5	-	c	2	-	46	39				
SOUTHERN EUROPE.	Belfort ...	998.1	49	WSW	3	c	998.7	0	47	+4	WSW	6	-	o	2	-	55	41				
	Lyon ...	999.7	48	S	2	o	1000.7	0	50	+7	SW	3	-	r	2	-	54	43				
	Nice ...	1003.0	48	E	1	f	1006.4	+3	50	+3	-	0	-	o	4	-	52	45				
	Perpignan ...	1002.3	50	SW	1	b	1001.9	+2	45	-3	W	1	-	bc	2	-	68	41				
	Sanguinaire ...	998.0	50	S	4	m	998.0	0	55	+1	SSW	5	-	m	4	-	61	45				
	Corunna (7 a.m.) ...	1000.4	54	WSW	5	r	1000.8	0	48	0	SW	4	-	r	3	-	55	46				
	Madrid (8 a.m.) ...	1001.7	52	WSW	4	bc	1008.2	+2	45	+2	SW	3	-	c	2	-	52	43				
	Lisbon (7 a.m.) ...	1014.2	56	NW	4	b	1013.2	0	56	+1	SW	4	-	bc	3	-	63	52				
	Gibraltar ...	1015.7	61	SW	3	c	1015.7	+2	61	+2	S	3	NW	c	1	-	66	57				
	Malta (8 a.m.) ...	1018.3	61	NW	2	o	1017.2	-1	52	0	-	0	-	o	2	-	61	50				
ITALY.	Azores (Horta, 8 a.m.) ...	1016.0	61	NW	2	o	1015.4	0	55	0	NW	2	-	o	2	-	64	54				
	Yester-day's Reports ...	22 <sup>nd</sup> March, 8 P.M. G.M.T.																				
	Venice ...	1000.9	51	SE	6	r	1001.4	0	50	+4	SW	1	-	c	2	-	51	46				
	Turin ...	998.0	53	-	0	b	1000.9	0	45	+4	-	0	-	c	2	-	51	46				
	Florence ...	1003.4	51	SW	1	b	1004.2	0	54	0	S	1	-	o	2	-	51	46				





**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

Wind from some Northerly point, light or moderate generally, rather variable weather, local snow showers, fair intervals, low temperature.

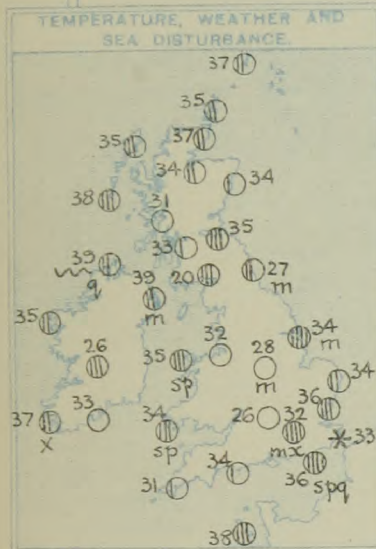
Northerly winds, light or moderate, sea slight, fair generally.

**FURTHER OUTLOOK.**



GENERAL INFERENCE.

The depressions over the North Sea and France are likely to disperse gradually.



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. Cal'm.

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

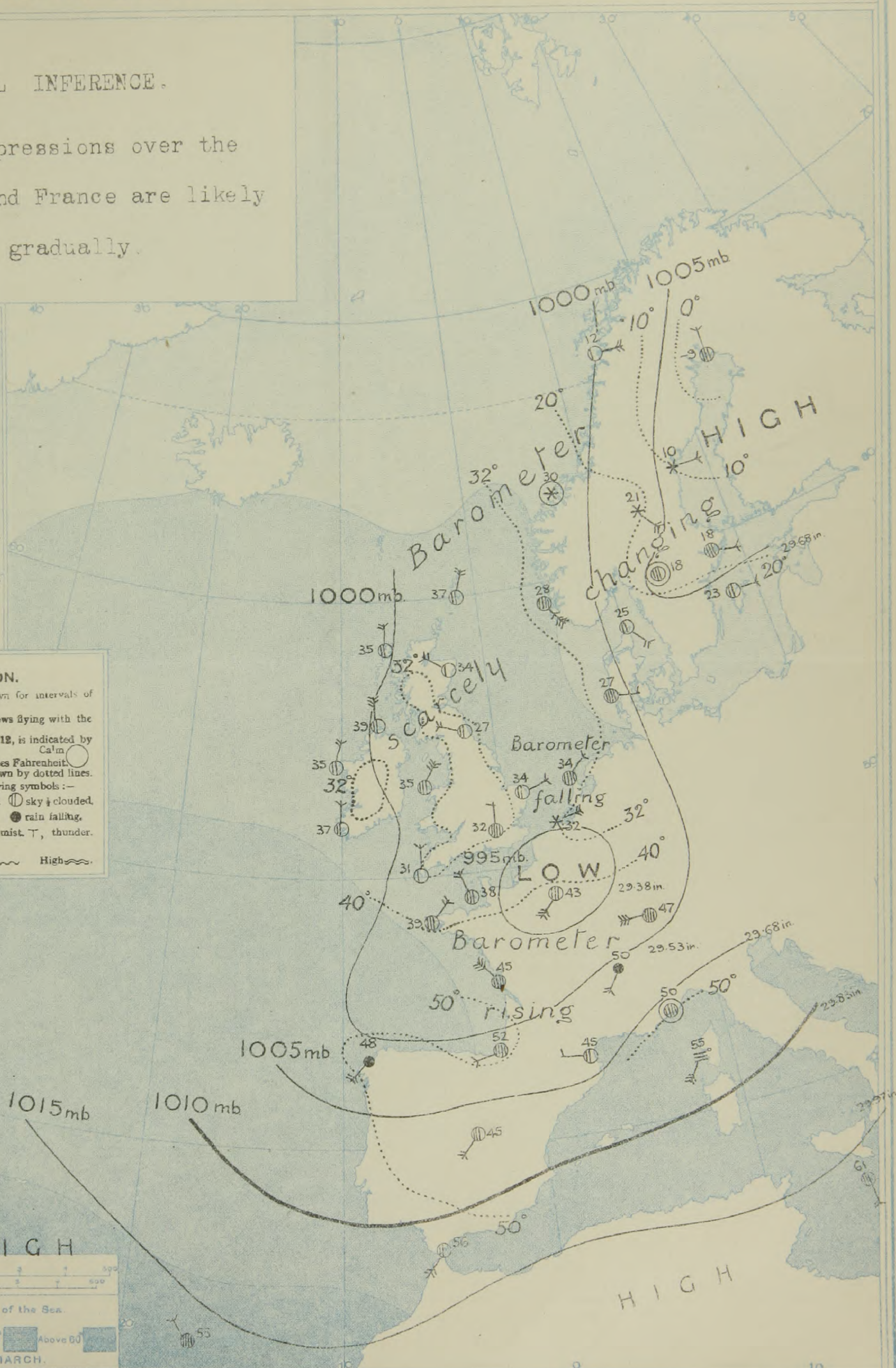
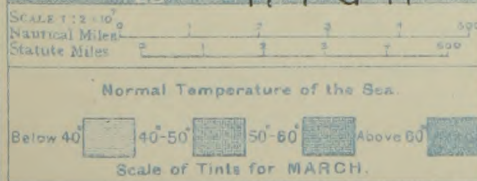
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky & clouded. ○ sky & clouded.  
 ○ sky & clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.

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

Inches  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...22... AT 9 P.M. LOCAL TIME.					...23... 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.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Max.	Min.				
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.									
Archangel ...	10178	5	S	1	b	-	-	° F.	F.	-	-	-	-	-	-	-	-			
Uleaborg ...	10132	3	NE	3	b	10082	-4	-4	+7	NE	4	*	b	-	-	-	-			
Helsingfors ...	10007	9	NNE	4	S	9983	+1	3	+2	NNW	3	*	b	0	?	*	*			
Hangö ...	10019	9	NE	3	c	9993	0	0	-5	NNW	2	*	c	0	1	*	*			
Riga ...	9936	19	NNE	5	0	9990	+2	14	-13	NE	4	*	0	0	3	*	*			
Petrograd ...	9968	10	NE	6	S	9901	+1	12	+14	NNW	3	-	0	*	4	14	-2			
Moscow ...	10060	28	SSE	4	S	9971	-6	34	+22	S	5	*	S	*	4	*	*			
Kiev ...	9975	39	SSE	4	0	9946	+1	36	+2	SSE	2	*	f	*	2	*	34			
Kharkov ...	10107	37	S	2	0	10036	-2	38	+11	S	3	*	0	*	-	*	*			
Kishinev ...	9977	45	E	2	c	9984	+2	43	+4	WSW	2	*	c	*	1	*	34			
Elisabetgrad ...	10020	41	SSE	4	c	9976	-1	43	+11	SSW	6	*	c	*	1	*	32			
Nicolaiev ...	10027	45	SSE	7	0	10003	*	43	+11	SSW	6	*	b	0	-	*	32			
Odessa ...	?	43	SSW	6	0	9986	0	43	+4	SSW	4	*	0	0	-	*	39			

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							England, E.						
{ Oban ...	2	44	32	b	b	8.5	{ Lowestoft ...	0.1	39	33	o.c	c.o	0.1
{ Banff ...	6	39	33	b.c	ps bc	6.1	{ Felixstowe ...	1	39	32	o.bc	bc	1.2
{ St. Andrews ...				*	*		{ Walton-on-Naze ...	1	38	32	b.c	b.c	3.3
							{ Southend-on-Sea ...	0.2	38	32	o	o	0.0
Eng. N.E.							England, S.E.						
{ Harrogate ...	1	39	24	c	c.os	2.4	{ Margate ...	0.2	39	35	c.bc	bc.c bc	2.0
{ Skegness ...	-	38	32	o	bc	2.1	{ Ramsgate ...	2	38	33	s.c	c	1.5
							{ Hastings ...	1	38	32	os.o	o	0.0
Eng. N.W.							{ Eastbourne ...	0.3	38	33	o	o	0.0
{ Morecambe ...	2	36	23	os	s.c	0.1	{ Seaford ...	1	38	33	o	s	0.0
{ Blackpool ...							{ Brighton ...	1	37	34	o	os	0.0
{ Southport ...	4	36	25	c.os	s.or.c	0.9	{ Worthing ...	0.2	36	33	o	r.o	0.0
							{ Littlehampton ...	0.2	36	34	o	o	0.0
Midlands							{ Bognor ...	1	36	33	os	o	0.0
{ Buxton ...	1	37	26	bc	bc	6.0	{ Southsea ...						
{ Leamington Spa ...	-	39	32	o.c	bc.c	3.3	{ Bournemouth ...	-	37	31	o	o	0.0
{ Malvern ...													
{ Ross-on-Wye ...	-	41	31	cm	bc.c	4.8	England, S.W.						
							{ Weymouth ...	-	38	33	o.c	o.bc	0.4
Wales.							{ Torquay ...	-	41	35	o	o.bc	1.1
{ Rhyll ...	1	39	26	bc.s	bc	1.0	{ Paignton ...	-	39	32	o	c	0.6
{ Colwyn Bay ...	2	38	28	bc	ps.bc	0.9	{ Penzance ...	0.3	42	36	o.bc	bc	4.8
{ Llandudno ...	2	39	26	cs	s.b	0.8	{ Newquay ...	-	39	34	o	bc.b	4.2
{ Aberystwyth ...	1	37	31	c.bc	o.or	3.5	{ Ilfracombe ...	-	40	30	c.bc	bc	4.2
{ Tenby ...	0.3	44	33	bc	bc.or	4.8	{ Weston-super-Mare ...	-	41	32	c.bc	b	3.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	%	%	Hr.	° F.	° F.	° F.	mm.‡			
City (Bunhill Row) ...	73	76	0.0	37	32	30	0.3	0	osp.0	o.c
Westminster (St. James's Park) ...	*	*	0.0	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	74	74	0.0	37	33	32	0.3	0.5	0.5	5.4 m
Hampstead (Reservoir) ...	*	80	0.0	39	30	27	Trace	0.5	0.5	*
Richmond Park ...	*	*	0.0	34	27	19	Trace	0.5	0.05	oms.bx
Kew. (See front page.)	*	*	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	76	75	0.0	31.4 Joules		7.1 Milliwatts.		21.4 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		Night Min. on Grass.	WEATHER.		Sun- shine for Yester- day.
		Max.	Min.		Fore- noon.	After- noon.	
		°F.	°F.				
Dublin to 4 p.m.	mm §	43	31	28	c.b.o	s.c.b	13
Darwen to 9 p.m.	2	36	23	21	bcou	ours	
Manchester "							
Birmingham "							
Oxford to 8 p.m.	*						
Teignmouth to 9 "							
Plymouth "							
S. Kensington (Museum Grounds to 6 p.m.)	0.4	39	32	28	oy.os	oso	0.059

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

24th 25th March 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	12.50	12.04	6.10
Greenwich ...	12.57	12.06	6.18
Wick ...	12.57	12.10	6.30
Valencia ...	12.58	12.18	6.33
	12.58	12.47	6.59

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many parts of the Kingdom - below 35° at Eskdalemuir. Snow showers fell in most districts, and the duration of sunshine varied greatly. In some Western and Northern localities the records were high.

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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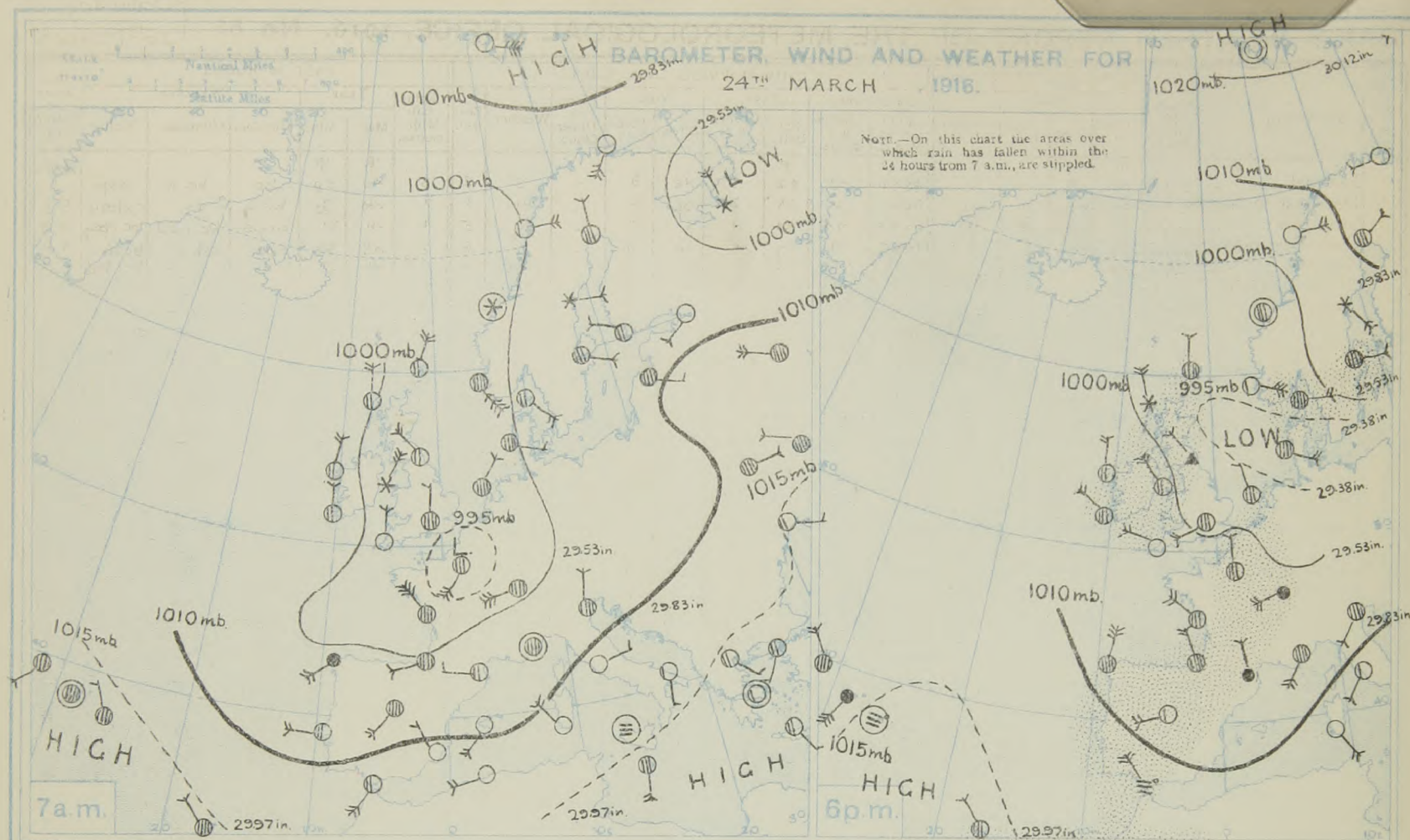


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 85

Saturday,  
25th March.

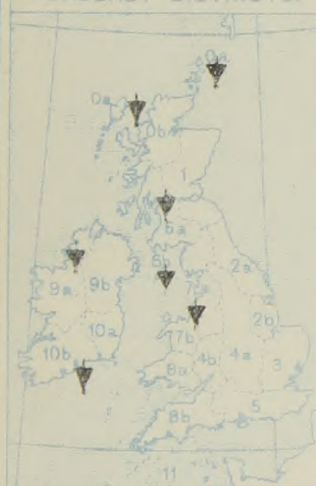
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud	Weather.	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	996.6	34	N	2	o	989.0	-2	32	-5	NE	3	-	S	2	3	40	29	bc	bc o	asp	Hours.
	Deerness (Orkney)	995.9	34	NW	3	cu	986.1	*	33	-2	SE	5	-	cu	3	2	40	30	bc c	cu	c. obscu	5.5
	Stornoway	999.0	34	NNW	3	cps	977.4	-14	34	-1	S	5	-	cq	5	4	41	31	bcps	bc cps	bc cpsq	4.1
	Castlebay (Barra Isd.)	999.9	37	NNW	2	c	983.5	-9	37	-1	W	7	-	o	6	2	43	34	c bc	csp c	bc sp o	7.3
	Glasgow	998.2	40	W	2	c	990.7	-6	34	+1	SW	3	-	omsp	*	0.4	46	31	b bc	b bc c	bc bsp	7.3
	Eskdalemuir	998.6	34	-	0	c	993.5	-4	32	+12	SW	5	-	o	*	0.4	41	20	bc c o	o c	bc c os	4.5
	Malin Head	1000.8	39	NW	3	bcp	987.5	-12	37	-2	SW	6	SW	bcq	6	2	42	35	bc	bc	bcq	8.0
	Blacksod Point	1003.8	40	N	3	bc	993.2	-11	41	+6	W	6	NW	bc	4	2	43	33	bc	bc	bc bcp	*
	Valencia	1005.8	44	NW	3	c	1001.1	-5	42	+5	SW	2	NW	cp	3	2	45	36	bc cv	bcv	bc b cp	9.2
	Roche's Point	1004.7	44	NW	3	c	1003.2	*	39	+6	WSW	2	SW	c	2	-	48	33	b bc	bc c	b bc c	*
	Birr Castle	1003.4	40	NW	1	c	998.5	*	35	+9	SW	2	-	c	*	1	47	26	cphrs	cphrs	ex c	6.7
	Donaghadee	1000.7	42	NNW	4	bc	994.5	-6	34	-5	W	4	W	bcx	3	-	44	33	bc	bc	c q bcx	*
	Liverpool (Bidston)	1000.1	38	WNW	3	b	998.6	-1	36	+4	SW	3	-	b	3	-	42	32	b	b	bc	9.7
	Holyhead	1001.0	41	NW	4	bc	998.6	-2	39	+4	WSW	4	W	bc	3	2	45	35	c cps	c bc	bc bxc	6.9
	Pembroke (St. Ann's)	1003.4	43	WNW	3	bc	1002.5	-2	41	+7	W	4	W	bc	3	6	43	32	cps bc	bc	b bc	8.1
	Scilly (St. Mary's)																					
	Falmouth	1004.5	40	WNW	3	bv	1005.2	0	38	+7	W	2	-	bcp	*	1	45	30	b s c bc	bc cps	b bc	8.2
	Jersey (St. Aubin)	1002.9	41	NW	1	b	1007.8	*	41	+3	SW	4	SW	b	3	2	44	34	cps bc	bc sp b	b op b	6.3
	Portland Bill	1001.2	42	WNW	4	bc	1004.5	-1	42	+8	WSW	4	W	c	3	-	43	33	b bc	bc	bc b	*
	Dungeness	999.9	38	NE	3	cp	1005.0	+2	39	+3	W	3	W	b	3	0.4	41	33	ps bc	p bc	bc	*
	Dover	1001.0	36	SW	1	cm	1005.2	?	36	+3	SW	2	-	b	3	1	43	31	ops c	bc cps	o c bx	2.7
Wick	996.5	38	-	0	c	986.5	-7	34	-3	S	2	S	c	3	2	41	27	bc c	bc phs	c m ev	*	
Nairn	997.0	37	NNW	1	cq	984.9	*	33	-1	-	0	-	bc	1	0.1	42	30	bc	bc c d	c bc	5.2	
Aberdeen	996.7	36	WNW	4	bc	988.9	-6	35	+1	S	2	W	bc	2	1	42	33	bcq sp	bc sp	bc	6.3	
Leith	997.5	40	NW	1	c	990.2	-3	35	0	SW	2	W	c	3	-	43	33	c bc	bc	c bc	*	
Tynemouth	997.6	36	NW	2	bcp	994.7	-3	36	+9	SW	2	W	cm	2	1	43	35	bc	bc ph	b cm	*	
Spurn Head	997.6	40	NNE	3	c	999.6	0	35	+1	WNW	4	-	bcx	4	-	43	31	bc m	bc	bc	4.7	
Yarmouth	998.5	37	WSW	2	bc	1002.6	+2	32	-2	WSW	2	-	bm	2	-	40	31	bc	bc	bc	2.8	
Clacton-on-Sea	999.5	39	W	1	c	1003.9	+2	35	-1	WSW	3	-	b	2	-	40	32	c	c	c bc bx	2.3	
Nottingham	998.9	40	NW	2	b	999.7	*	33	+5	SW	2	SW	b	*	-	43	27	b cm	c b m	b	0.8	
Benson (Oxon.)	999.6	40	WSW	1	b	1003.8	0	33	+7	SSW	3	-	bc	*	-	43	26	b bc	b	b	*	
St. Farnborough	1000.1	36	WSW	1	bc	1004.4	0	31	+3	SW	3	-	bcx	*	Trace	43	27	b bc	o bc	b bcx	5.5	
London (Kew Obsv.)	1000.5	40	WSW	3	c	1004.6	+2	34	+2	SW	3	W	bcx	*	-	42	31	bcx	bc b	bc b bc	5.5	
NORTHERN EUROPE.	Spitsbergen	1020.8	-24	?	?	b	1022.3	0	-27	-18	SSE	2	*	b	*	*	-9	-35	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.3 am Wind at 6000 feet W by S 30 mph " " 5000 " W by S 30 " " " 4000 " WSW 38 " " " 3000 " W by S 45 " " " 2000 " WSW 33 " " " 1000 " W by S 21 " " " Surface SW by W 13 "			
	Vardö	1014.1	-8	W	2	b	1017.5	0	16	+2	SW	2	-	b	2	*	19	-8				
	Bodö	1002.4	16	E	4	b	1002.1	-2	18	+6	E	4	-	b	2	-	18	12				
	Christiansund	995.0	34	-	0	c	995.0	0	30	0	SE	2	-	b	3	-	34	30				
	Skudenes	996.3	28	ESE	5	b	993.3	-3	28	0	ESE	6	-	c	4	-	30	25				
	Færder (Lianfjord)	999.9	25	E	2	c	999.3	+2	21	-7	NE	2	-	S	1	9	28	21				
	The Scaw (Skagen)	998.3	28	E	3	o	997.0	+1	27	+2	E	2	-	c	2	?	28	23				
	Blaavands Huk	?	30	ESE	1	o	997.6	0	34	+7	SSW	2	-	o	1	-	34	25				
	Haparanda	1011.7	9	NE	2	c	1012.3	0	12	+21	E	4	-	c	*	-	16	-9				
	Hernösand	1005.5	16	SE	4	s	1003.4	-1	9	-1	NE	2	-	c	*	?	19	0				
Stockholm	1003.5	21	E	2	o	994.3	-4	19	+1	NE	4	-	S	*	2	24	18					
Wisby	1000.7	27	NE	2	o	988.8	-6	32	+9	N	2	-	S	*	12	32	23					
Karlstad	1001.6	23	SE	2	bc	999.3	0	18	0	NNE	2	-	S	*	Trace	24	12					
FRANCE, &c.	The Helder	999.7	36	NNW	1	c	1002.1	+2	39	+5	SW	3	-	bc	2	Trace	39	34				
	C. Gris Nez	1000.4	38	WSW	4	b	1005.5	+2	40	+8	WSW	4	*	b	4	4	41	32				
	La Hève	1002.1	39	N	3	c	1007.7	*	37	+1	SW	4	*	bc	3	-	46	36				
	Brest (St. Mathieu)	1006.1	44	NNW	4	bc	1008.4	0	46	+7	WSW	4	*	bc	4	-	46	36				
	Rochefort (Ile d'Aix)	1005.2	45	E	4	c	1013.0	+3	40	-5	SE	3	*	bc	*	-	59	37				
	Biarritz	1004.4	53	NNW	3	o	1012.4	+2	42	-10	SE	1	*	o	2	10	57	41				
	Paris	1002.7	34	N	1	b	1010.3	+2	30	-13	S	2	-	b	*	3	45	28				
	Belfort	1000.2	43	WSW	4	r	1011.9	*	34	-13	W	3	-	bc	*	6	53	32				
	Lyons	1003.1	48	SSE	1	o	1012.4	*	39	-11	NNW	1	*	o	*	-	60	38				
	Nice	1006.9	50	SW	4	o	1008.3	+3	51	+1	-	0	*	b	2	-	59	45				
Perpignan	1003.5	55	NNW	2	r	1011.1	+5	48	+3	W	1	-	o	*	Trace	64	41					
Sanguinaire	*	56	SW	4	m	*	*	56	+1	E	3	*	m	5	-	59	48					
SOUTH-EAST EUROPE.	Corunna (7 a.m.)	1008.4	50	NNE	5	o	1014.3	+1	39	-9	NE	1	-	b	3	4	54	37				
	Madrid (8 a.m.)	1007.1	52	WSW	3	b	1014.3	+2	39	-6	-	0	-	o	*	2	54	37				
	Lisbon (7 a.m.)																					
	Gibraltar	1013.2	57	NW	4	m	1012.8	*	53	-3	NW	4	*	bc	2	Trace	63	52				
	Malta (8 a.m.)	*	*	*	*	*	1014.0	+3	61	0	NW	2	NW	o	0	-	66	59				
	Azores (Horta, 8 a.m.)	1013.3	*	SSW	6	r																
	Madeira (Funchal)	1015.3	61	NW	2	c	1015.8	0	54	-1	NW	2	-	b	2	-	63	54				
YESTERDAY'S REPORTS		23rd, 8 P.M. G.M.T.																				
ITALY.	Venice	1004.2	50	-	0	r	1006.0	0	48	+2	NNE	2	*	o	3	12	*	*	Trace			
	Turin	1001.4	48	-	0	o	1005.0	0	46	+1	-	0	*	o	*	*	*					
	Florence	-	-	-	-	-	1007.4	0	55	+1	S	2	*	o	*	*	*					
	Pesaro	1005.4	57	SSE	4	b	1007.9	0	57	+3	S	1	*	b	2	-	*	*				
	Leghorn	-	-	-	-	-	1008.1	0	57	0	SW	1	*	c	5	1	*	*				
	Rome	1010.7	55	SSE	4	c	1012.2	0	57	+2	S	2	*	b	*	-	*	*				
	Brindisi	1011.6	59	SW	4	b	1012.9	0	55	+1	S	1	*	b	3	-	*	*				
	Cagliari	1010.8	56	NNW	4	b	1012.1	0	59	+2	NW	3	*	b	2	-	*	*				
Palermo	1012.0	66	SSE	4	b	1014.8	0	59	+2	-	0	*	f	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 Cone.	South Cone.
North Cone.	North Cone.

**Cones Hoisted at 7.50 a.m.**

**Western Channel and Bay 1)**

0 } Southerly to Westerly or North-Westerly winds, strong to a gale; squally, snow, sleet or rain at times; temperature rising.

1 } Southerly to Westerly winds, fresh or strong, squally showery, rain or snow; temperature rising.

2 } South-Westerly to Westerly winds, moderate to fresh; becoming showery and milder.

3 } South-Westerly to Westerly or North-Westerly winds, strong to a gale; squally, changeable, rain or sleet; temperature higher.

4 } Westerly winds, moderate or fresh, changeable, some showers; milder.

5 } Same as Nos. 6 and 7.

6 } Westerly winds, moderate or fresh; sea moderate; showery.

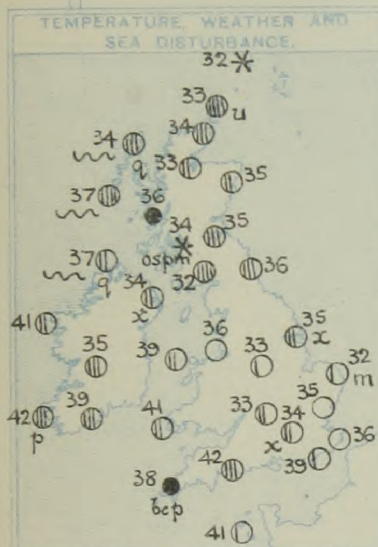
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 A.M., SATURDAY, 25<sup>TH</sup> MARCH, 1916.

## GENERAL INFERENCE.

The depression in the North-West will have a considerable effect on the winds and weather over the whole Kingdom.



## EXPLANATION.

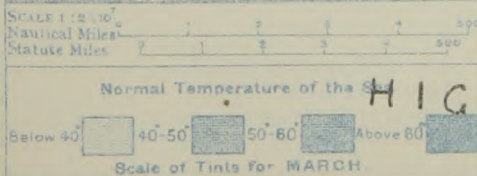
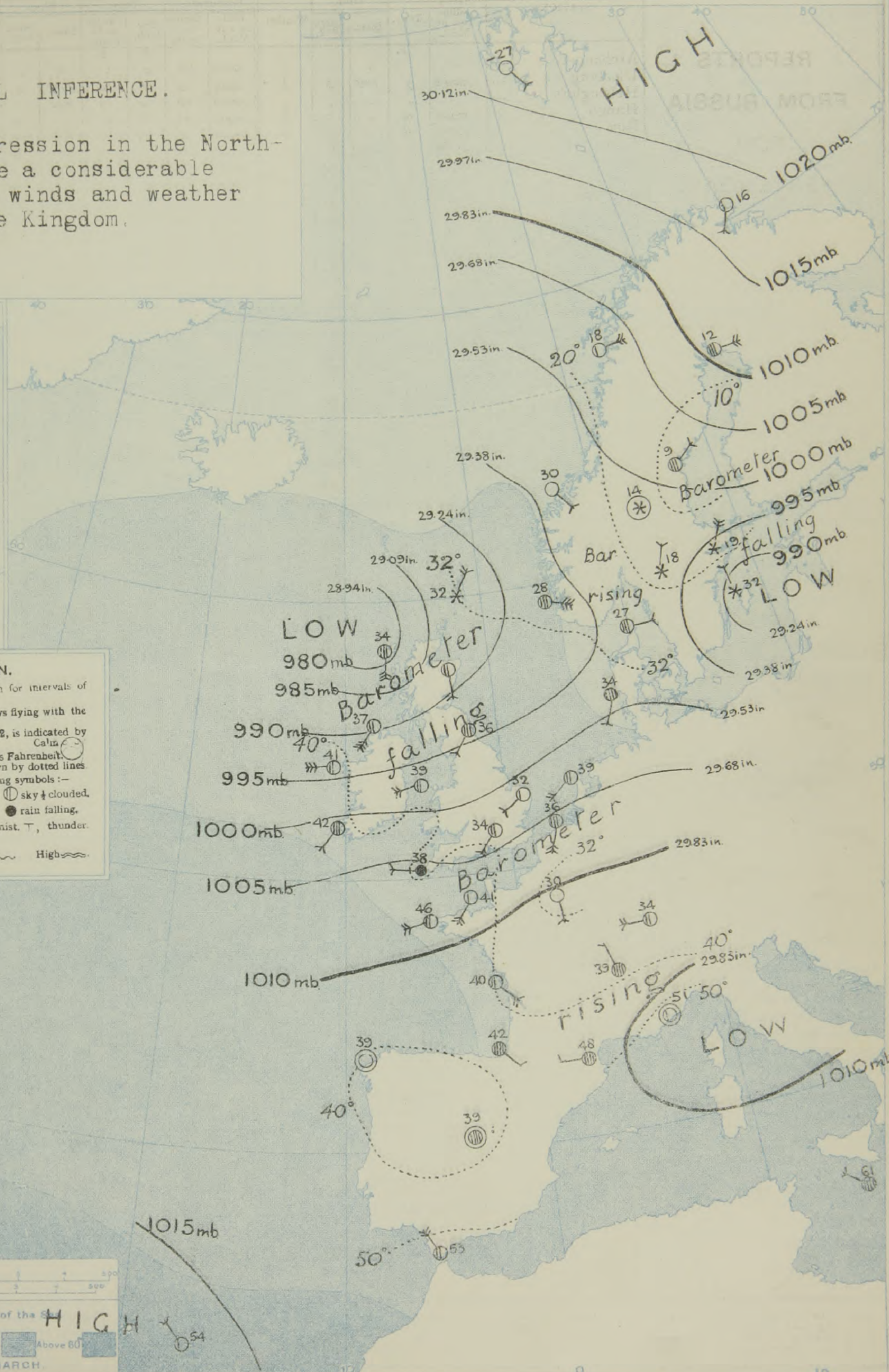
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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.  
 R, 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.	TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Dir. or Force 0-12.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir. or Force 0-12.	Force 0-12.							
Archangel ...	-	F.	-	-	-	9958	+3	9	-	N	4	*	S	-	6	*	7	
Uleaborg ...	10043	7	NNE	3	b	10082	+3	-8	-4	ENE	2	*	b	*	-	*	*	
Helsingfors ...	-	-	-	-	-	10073	+3	-4	-7	NNE	1	*	e	-	-	*	*	
Hangö ...	10049	16	-	0	b	10086	+2	0	0	-	0	*	bc	-	-	*	*	
Riga ...	10074	16	-	0	b	10090	0	12	-2	ESE	1	*	0	-	-	*	*	
Petrograd ...	9998	12	WNW	3	0	10096	+6	1	-11	WSW	2	*	b	*	-	14	1	
Moscow ...	10048	36	SW	3	r	10131	+6	12	-22	WNW	4	*	0	*	3	*	12	
Kiev ...	10083	32	NW	2	0	1030	+1	30	-6	E	2	*	0	*	*	*	30	
Kharkov ...	10063	46	WNW	2	0	1044	+4	32	-6	WNW	2	*	0	*	2	*	*	
Kishinev ...	10104	44	N	2	m	10130	+4	37	-6	SE	3	*	b	*	-	*	37	
Elisabetgrad ...	10088	38	SW	3	0	1044	?	34	-9	SE	1	*	0	*	?	*	?	
Nicolaiev ...	10047	44	-	0	b	10158	*	33	-10	-	0	*	bc	0	-	*	32	
Odessa ...	10100	46	NNW	2	b	10136	+2	39	-4	-	0	*	bc	0	-	*	37	

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

STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
			Max.	Min.	Forenoon.	Afternoon.					Max.	Min.	Forenoon.	Afternoon.	
		mm. & .	° F.	° F.			Hr.			mm. & .	° F.	° F.			Hr.
Scotland.	Oban ... ..	—	44	30	bc	bc	4.6	England, E.	{ Lowestoft ... ..	—	39	30	c	c.o.c.	2.5
	Banff ... ..	3	42	34	bc	bc	7.1		{ Felixstowe ... ..	—	41	31	bc	bc.	2.7
	St. Andrews ... ..	—	43	32	*	*	6.5		{ Walton-on-Naze ... ..	—	40	35	bc.c.bc	bc.	2.0
							{ Southend-on-Sea ... ..		1	44	23	o.c.o	o.c.o	1.6	
Eng. N.E.	{ Harrogate ... ..	3	41	25	b.bc	c.bc.b.	6.7	England, S.E.	{ Margate ... ..	0.3	40	34	o	bc.c	2.1
	{ Skegness ... ..	—	43	29	o.bc	bcz	4.5		{ Ramsgate ... ..	1	39	33	o	bc.o	1.9
Eng. N.W.	{ Morecambe ... ..	—	40	26	bc	bc	8.1		{ Hastings ... ..	8	40	32	os.bc	o.bc.	1.8
	{ Blackpool ... ..						{ Eastbourne ... ..		1	41	33	os	o.bc.b.	1.6	
	{ Southport ... ..	—	42	28	b	b.bc	10.5		{ Seaford ... ..	1	43	33	s	c	3.7
Midlands.	{ Buxton ... ..	1	37	28	bc	bc	2.5		{ Brighton ... ..	—	43	33	o.c	c.bc	4.2
	{ Leamington Spa ... ..	0.1	44	28	o.bc	c.o	4.2		{ Worthing ... ..	—	45	32	c.bc	bc.	4.9
	{ Malvern ... ..						{ Littlehampton ... ..		—	43	36	b	b	7.7	
	{ Ross-on-Wye ... ..	1	47	27	s.bc	bc	5.5		{ Bognor ... ..						
							{ Southsea ... ..								
							{ Bournemouth ... ..	—	44	28	b	b.bc	6.3		
Wales.	{ Rhyl ... ..	—	42	33	b	b	10.2	England, S.W.	{ Weymouth ... ..	—	45	28	x.bc	c.bcz	6.7
	{ Colwyn Bay ... ..	—	43	32	bc	bc	7.8		{ Torquay ... ..	—	46	29	b.b.b.	b.	7.3
	{ Llandudno ... ..	—	43	33	b	b	10.1		{ Paignton ... ..	0.3	46	26	sp.bc	sp.bc	7.5
	{ Aberystwyth ... ..	1	41	27	s.o.c	c.b.o	5.5		{ Penzance ... ..	3	47	33	s.bc	bcz	9.5
	{ Tenby ... ..	1	45	30	bc	bc.c.	7.2		{ Newquay ... ..	1	43	35	bcps.b	c.bc.	6.0
									{ Ilfracombe ... ..						
							{ Weston-super-Mare ... ..	—	46	30	bc.b	b.bc.	7.0		

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
	%	%	Hr.	° F.	° F.	° F.	mm.‡			
Greenwich (Royal Obs.) ...	64	74	2.3	42	31	26	-	o. c	c. bc.	b. bcps.
City (Bunhill Row) ...	*	*	3.9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	65	80	3.0	45	30	27	0.2	bc	b	bc. m. bc.
Camden Sq. (Brit. Rainfall)	61	78	5.1	45	30	26	Trace	bc. b	b. bc.	*
Hampstead (Reservoir) ...	*	87	5.9	42	28	20	0.3	bc.	bc. c	b. bc. m.
Richmond Park	*	*	5.3	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	5.5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	57	74	4.3	81.3 Joules		19.3 Milliwatts.		4.7 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm &	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	10	41	27	25	o. bc	bc	bc. as	4.0
Manchester "	"	41	32	*	cp. x	o. bc	bc. c	0.1
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9,,								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	44	32	28	om. g. s. O	o. c	c. b	*

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

25th & 26th March 1916.			
	Sunrise	Noon.	Sunset.
Yarmouth ...	G.M.T. 5.48 5.45	G.M.T. 11.59 11.59	G.M.T. 6.11 6.13
Greenwich ...	5.54 5.52	12.6 12.6	6.18 6.20
Wick ...	6.4 6.1	12.19 12.18	6.33 6.36
Valencia ...	6.35 6.33	12.47 12.47	6.59 7.1

## NOTES ON YESTERDAY'S WEATHER.

Bright sunshine was very prevalent over a considerable portion of the Kingdom, but some localities experienced showers. Temperature remained below 45° very 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; unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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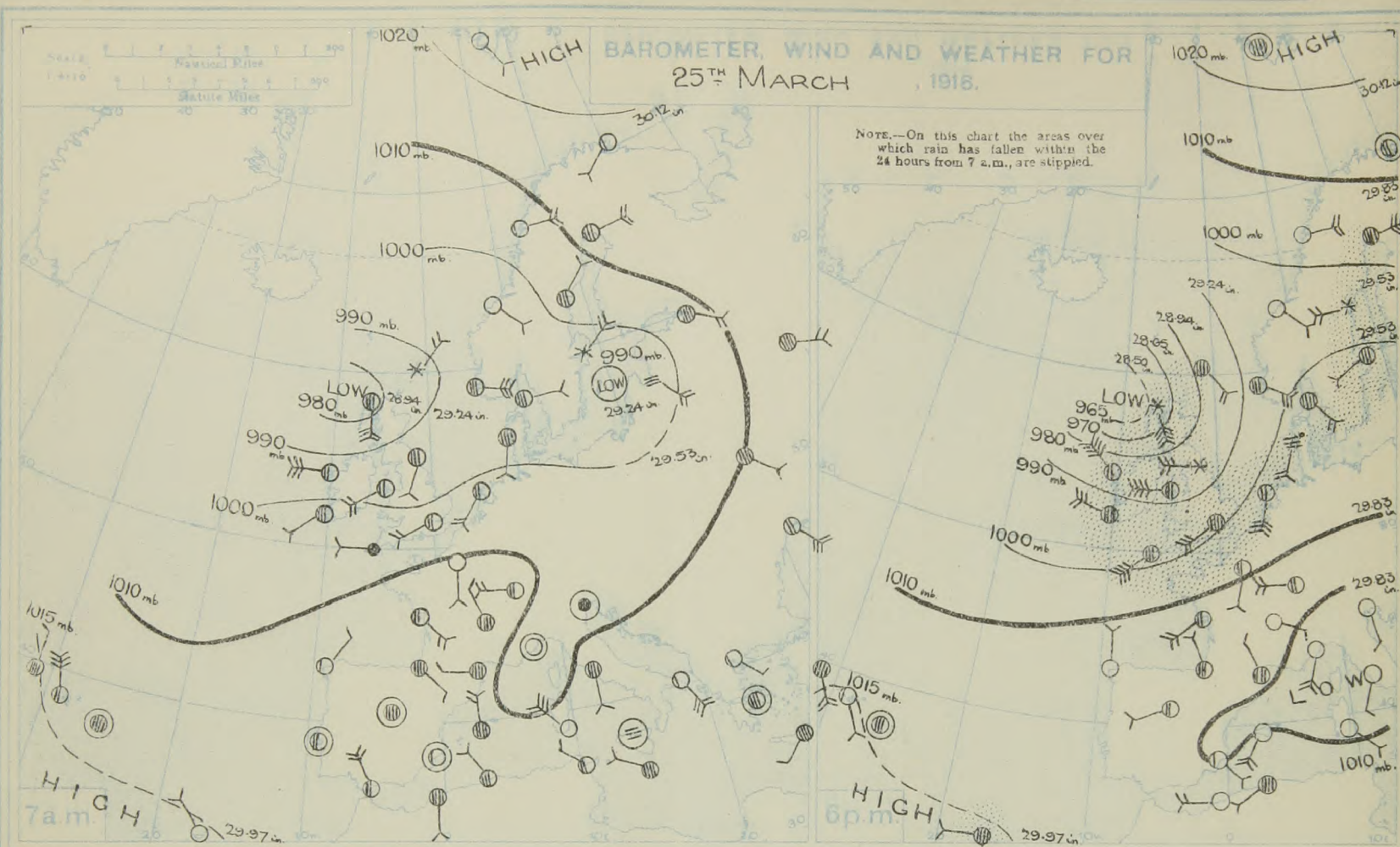


\* Information for these columns not usually received.

† Received too late for insertion in Charts.

† The barometric change is expressed in half-millibars.





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

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

Warnings issued to Districts 0, 6, 7, 9 & 10 at 7.50 a.m. and other Districts at 1.50 p.m.

Western Channel and Bay 11

Wind between South-East and North-East, light or moderate to strong; rain, sleet or snow at times; cold.

Westerly and North-Westerly winds, fresh or strong at times, a gale locally; showers and squalls of sleet or snow; cold.

Wind veering to West, fresh or strong, high in places; changeable, some showers of rain, hail or sleet; low temperature.

Same as No 1.

Westerly and North-Westerly winds, fresh or strong, a gale locally; changeable, squally, showers of rain, hail or sleet; cold.

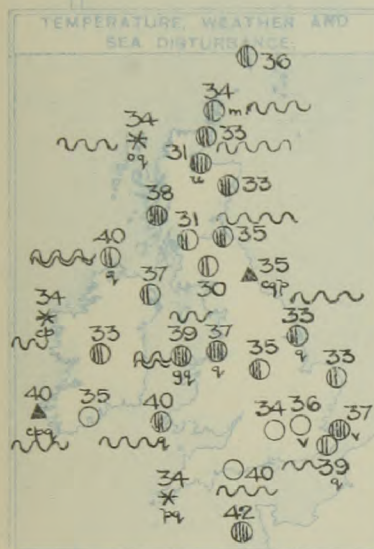
Westerly winds, fresh or strong; sea rough; changeable, some showers.

#### FURTHER OUTLOOK.



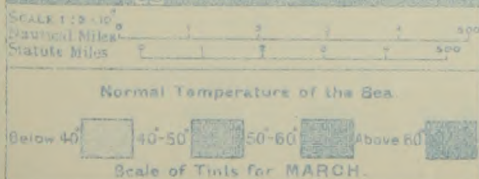
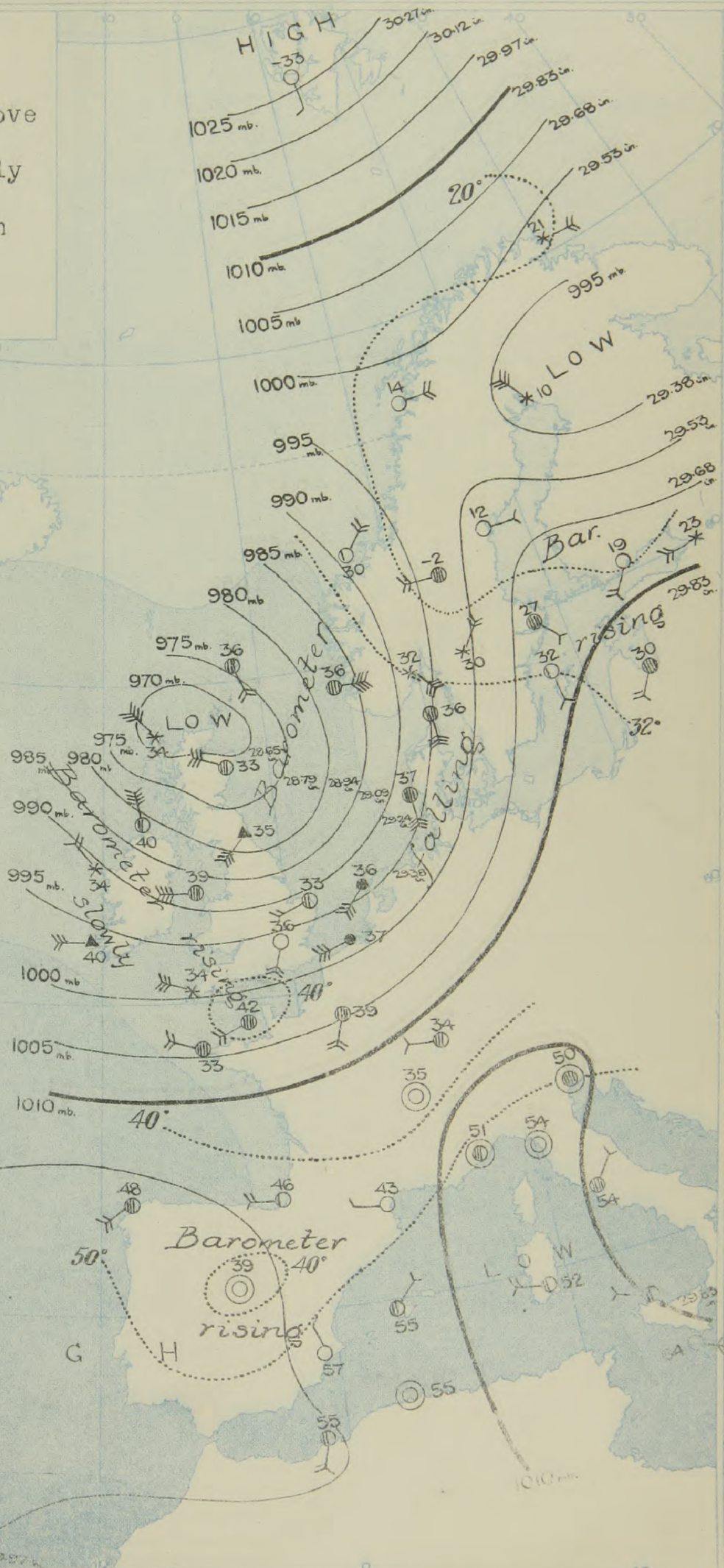
# GENERAL INFERENCE.

The depression centred over Scotland will probably move slowly eastward and decrease somewhat in intensity.



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





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	... 24th ... AT 9 P.M. LOCAL TIME.					... 25th ... 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. ° F.	Change in 24 hours F.	Direc.	Force 0-12.								
Archangel ...	1014.0	1	N	1	3	-	-	-	-	-	-	*	-	-	*	-			
Uleaborg ...	1011.5	14	E	3	3c	1011.5	0	10	+18	E	4	*	0	*	*	-			
Helsingfors ...	1007.9	-2	ESE	3	S	997.4	?	19	+23	E	4	*	S	0	*	*			
Hangö ...	-	-	-	-	-	997.2	+2	23	+23	ENE	4	*	S	?	*	*			
Riga ...	1003.0	28	NNE	1	0	997.0	+3	34	+22	SE	4	*	f	?	*	*			
Petrograd ...	1013.0	19	E	2	0	1008.6	-3	0	+1	ENE	3	-	0	*	23	0			
Moscow ...	1019.1	18	SE	1	3	1019.0	-1	21	+9	ENE	3	*	0	*	*	?			
Kiev ...	1011.1	39	SE	4	3	1009.7	0	39	+9	SE	2	*	0	*	*	30			
Kharkov ...	-	-	-	-	-	1018.1	0	34	-3	ENE	2	*	0	*	*	*			
Kishinev ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	*			
Elisabetgrad ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	*			
Nicolaiev ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	*			
Odessa ...	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	*			

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.	mm. & .	" F.	" F.			Hr.	England, E.	mm. & .	" F.	" F.			Hr.
{ Oban ... ..	1	44	31	ps bc	os	04	{ Lowestoft ... ..	.	48	31	bc	bc	89
{ Banff ... ..	1	38	30	o c	chs	02	{ Felixstowe ... ..	.	47	32	ba, bc	ba, bc	97
{ St. Andrews ... ..				*	*		{ Walton-on-Naze ... ..	.	49	32	bc	b	86
Eng., N.E.							{ Southend-on-Sea ... ..						
{ Harrogate ... ..	5	42	31	bc, o	or sp	05	{ Margate ... ..	.	49	31	b	bc	106
{ Skegness ... ..	.	47	29	bc	bc	51	{ Ramsgate ... ..	.	40	32	bc	bc	106
Eng., N.W.							{ Hastings ... ..	1	47	31	bc, op	bc	85
{ Morecambe ... ..							{ Eastbourne ... ..	2	46	34	bc, bc	bc	75
{ Blackpool ... ..							{ Seaford ... ..	.	46	34	bc	bc	85
{ Southport ... ..	1	45	38	o, bc	or	15	{ Brighton ... ..	.	47	32	bc	bc	90
Midlands							{ Worthing ... ..	.	47	28	b	bc	96
{ Buxton ... ..	1	41	30	bc	bc	34	{ Littlehampton ... ..	.	46	40	b	b	92
{ Leamington Spa ... ..	0.1	47	31	bc	cop, c	49	{ Bognor ... ..	0.3	46	31	b	bc, bc	91
{ Malvern ... ..							{ Southsea ... ..		49	32	b	bc, c	85
{ Ross-on-Wye ... ..	2	47	31	bc	og, p	45	{ Bournemouth ... ..	.					
Wales.							{ Weymouth ... ..		49	33	bc	bc, o	83
{ Rhyl ... ..							{ Torquay ... ..	.					
{ Colwyn Bay ... ..							{ Paignton ... ..	3	51	36	bc	bc, ps	74
{ Llandudno ... ..							{ Penzance ... ..	*	49	36	bc	c, op	54
{ Aberystwyth ... ..	2	44	35	bc, o	c, o	25	{ Newquay ... ..						
{ Tenby ... ..	2	43	33	bc, op	bc, p	37	{ Ilfracombe ... ..						
							{ Weston-super-Mare ... ..						

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.				
Greenwich (Royal Obs.) ...	74	60	8.3	50	35	3.0	5	bc	bc, bc
City (Bunhill Row) ...	*	*	6.4	*	*	*	*	*	*
Westminster (S. James's Pk.)	74	67	7.4	50	35	3.4	4	bc	bc, bc
Camden Sq. (Brit. Rainfall)	60	62	7.0	50	37	2.8	6	bc	bc, bc
Hampstead (Reservoir) ...	*	6.4	8.0	47	31	2.5	6	bc	bc, bc
Richmond Park ...	*	*	7.1						
Kew. (See front page.)	*	*	7.4						
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.									
Total.				Average Rate.		Max. Rate.			
S. Kensington (Roof of M.O.)				1077 Joules		24.1 Milliwatts			

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		Night Min. on Grass.	WEATHER.		Sun- shine for Yester- day.
		In Screen.	Min.		Night.	Fore- noon.	
		Max.	Min.				
Dublin to 4 p.m.	1	46	34	30	bc	cop	9.7h
Darwen to 9 p.m.	...	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...	...
Oxford to 8 p.m.	*	49	32	26	b	bc, bc	cor
Teignmouth to 9, "	...	...	...	...	...	...	...
Plymouth "	...	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	1	50	31	20	bc	bc	bc, op

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

26th March 1916.	Sunrise	Noon	Sunset.
Yarmouth ...	G.M.T. 5.45 5.42	G.M.T. 12.59 12.54	G.M.T. 6.13 6.15
Greenwich ...	5.52 5.50	12.6 12.4	6.20 6.22
Wick ...	5.61 5.58	12.18 12.18	6.36 6.38
Valencia ...	5.33 5.31	12.47 12.47	7.1 7.3

## 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.		St. Famborough.		St. Famborough.		St. Famborough.		St. Famborough.		St. Famborough.		St. Famborough.		St. Famborough.	
	24h.	7h.	24h.	7h.	24h.	7h.	24h.	7h.	24h.	7h.	24h.	7h.	24h.	7h.	24h.	7h.
Heights in kilometres	2		1		1		1		1		1		1		1	
	0.5	-1	-1	-7	-2	-6	-1	-6	-2	-6	-1	-6	-2	-6	-1	-6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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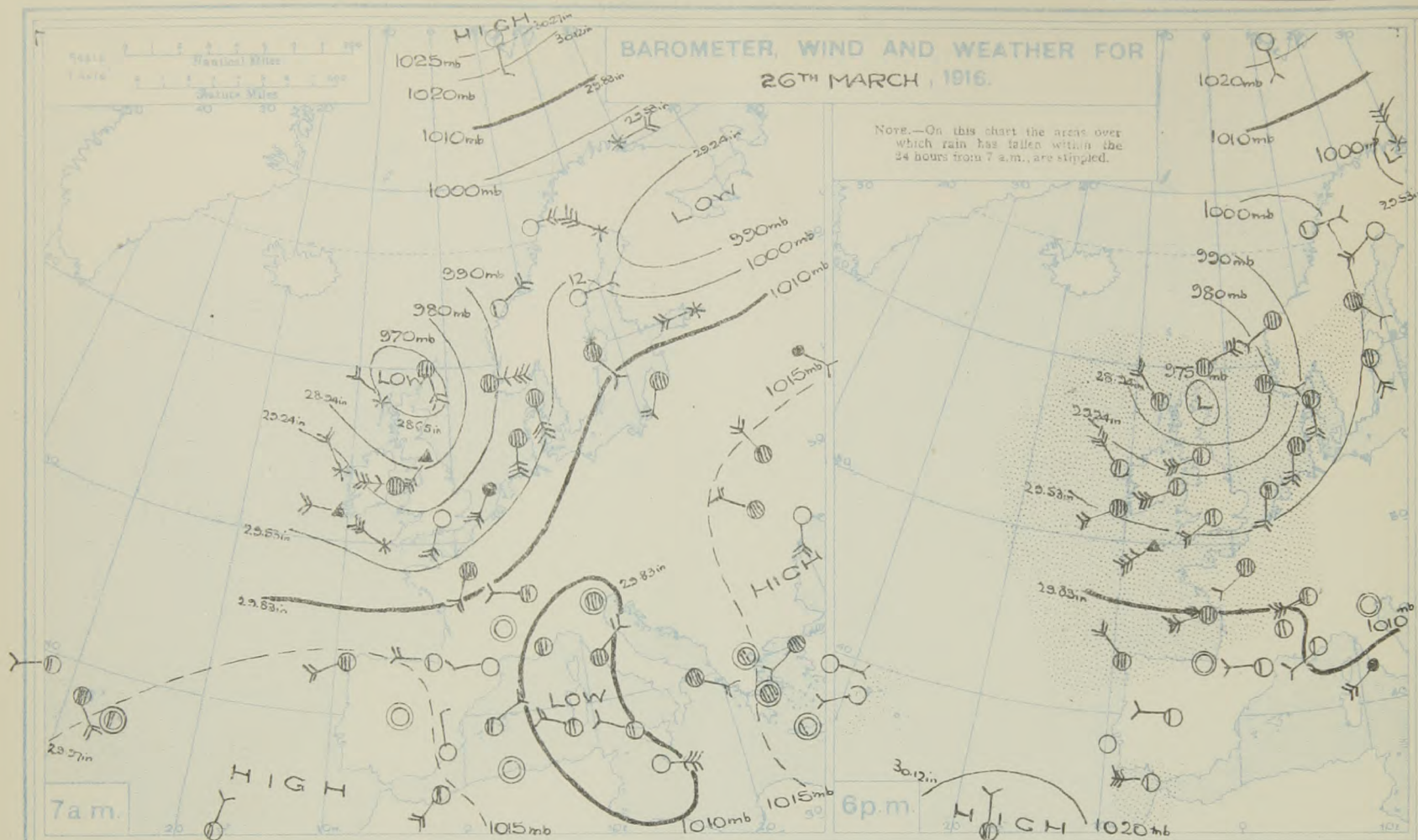


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 87

Monday  
27<sup>th</sup> March

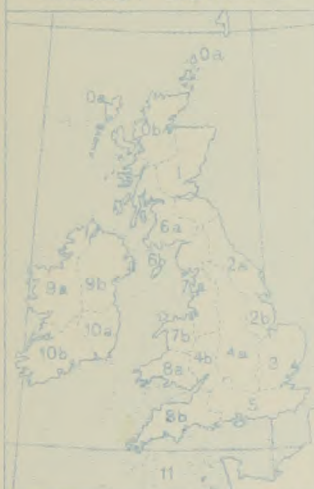
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M. G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day																		
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	TEMP.		WEATHER.																						
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.																				
BRITISH ISLANDS.	Lerwick	976.4	36	ESE	5	981.2	+1	37	+1	N	6	bc	5	7	40	32	c	c	bc sp	Hours.																			
	Deerness (Orkney)	975.2	34	NNE	7	983.0	+	33	-1	N	5	s	4	10	39	33	bc cv	cas	ops	24																			
	Stornoway	974.4	37	NW	4	991.2	+2	35	+1	NW	6	bc	5	17	38	33	ampy	opscg	obscg	27																			
	Castletown (Barrisd.)																																						
	Glasgow	981.2	34	WSW	6	992.0	+6	32	+1	W	1	b	4	4	39	30	bc sp	chsp	bc sp	43																			
	Eskdalemuir	984.3	31	WSW	7	992.2	+6	31	+1	S	2	b	4	3	39	27	bc	opscg	obscg	48																			
	Main Head	982.2	40	W	9	993.6	+4	36	-2	NNE	3	bc	4	2	46	34	bc sp	bc sp	bc	58																			
	Blackod Point	991.9	39	NW	6	994.4	+3	37	-2	NW	1	c	4	5	42	33	ampy	bc sp	bc sp	5																			
	Valencia	999.6	40	WSW	4	997.7	-2	34	-6	NE	2	SW	c	4	42	34	opscg	opscg	opscg	39																			
	Roche's Point	999.5	40	W	3	999.8	+	35	0	S	1	c	2	0.3	43	33	bc sp	bc	bc	4																			
	Birr Castle	995.1	35	WSW	2	996.8	+	33	0	SW	1	c	2	2	41	32	cas	cas	cx	33																			
	Donaghadee	987.4	35	WSW	6	994.1	+6	36	-1	WNW	3	NW	bc	3	41	33	bc sp	bc sp	ampy	5																			
	Liverpool (Bidston)	991.8	38	WSW	5	994.2	+4	38	+1	WSW	5	W	c	1	44	34	opscg	bc	bc	29																			
	Holyhead	993.1	40	WSW	6	996.1	+3	39	0	W	6	W	c	0.3	43	35	opscg	opscg	opscg	29																			
	Pembroke (St. Ann's)	997.6	38	NW	5	999.3	+1	41	+1	WNW	4	NW	bc	1	43	27	bc	bc	bc	70																			
	Scilly (St. Mary's)																																						
	Falmouth	1001.5	42	WSW	7	1001.9	-1	36	+2	W	2	SW	c	5	46	34	bc sp	bc sp	bc	77																			
	Jersey (St. Aubin)	1003.7	41	W	5	1004.1	+	42	0	WSW	4	c	3	2	47	39	obscg	obscg	obscg	60																			
	Portland Bill	999.0	44	WSW	6	1000.1	+1	42	+2	WSW	5	W	bc	4	44	37	bc sp	bc	bc	5																			
	Dungeness	998.5	43	WSW	7	1001.1	+2	40	+1	WSW	4	SW	bc	4	46	38	bc	bc	bc	5																			
	Dover	998.6	40	SW	6	1001.3	+3	39	+2	SW	4	SW	bc	4	46	35	obscg	obscg	obscg	55																			
NORTHERN EUROPE.	Wick	973.6	35	N	5	983.8	+2	33	0	WNW	5	c	5	8	39	32	ampy	ampy	opscg	5																			
	Nairn	977.5	35	W	3	988.8	+	32	+1	WNW	5	bc	5	10	33	30	sy	casu	ga sp	01																			
	Aberdeen	974.3	35	WSW	6	985.6	+3	35	+2	WNW	6	bc	4	4	38	31	sy	opscg	obscg	15																			
	Leith	980.9	36	W	2	990.7	+4	33	-2	SW	1	b	3	8	41	32	casu	gasp	obscg	5																			
	Tynemouth	985.2	39	WSW	6	990.1	+4	34	-1	NW	3	NW	bc	3	44	34	ampy	bc sp	bc	5																			
	Spurn Head	991.9	42	WNW	5	992.6	+1	35	+2	W	6	c	5	Trace	45	33	bc	bc	bc	66																			
	Yarmouth	995.7	41	W	3	997.0	+1	35	+2	WSW	2	bc	2	2	46	32	bc	bc	bc	96																			
	Clacton-on-Sea	996.8	42	WSW	4	999.2	+3	37	+1	WSW	5	bc	4	1	45	35	bc	bc	bc	49																			
	Nottingham	993.0	39	W	3	997.6	+	37	+2	SW	4	SW	c	0.2	48	33	c bc	bc	bc	61																			
	Benson (Oxon.)	996.7	37	SW	3	1000.4	+3	34	0	SW	4	W	b	0.1	45	32	bc	bc	bc	5																			
	St. Farnborough	998.0	35	WSW	3	1000.7	+2	35	+1	WSW	4	W	bc	2	47	32	bc	bc	bc	78																			
	London (Kew Obsy.)	997.5	39	SW	4	1000.7	+3	36	0	SW	3	W	bc	1	46	34	bc	bc	bc	74																			
	Spitsbergen	1021.1	42	S	2	1021.0	-1	17	+16	NW	2	W	8	+	-17	-42	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.15 a.m. 6,000 feet W. 33 m.p.h. 7,000 " " 34 " " 8,000 " " 34 " " 9,000 " " 34 " " 10,000 " " 34 " " 11,000 " " 34 " " 12,000 " " 34 " " 13,000 " " 34 " " 14,000 " " 34 " " 15,000 " " 34 " " 16,000 " " 34 " " 17,000 " " 34 " " 18,000 " " 34 " " 19,000 " " 34 " " 20,000 " " 34 " " 21,000 " " 34 " " 22,000 " " 34 " " 23,000 " " 34 " " 24,000 " " 34 " " 25,000 " " 34 " " 26,000 " " 34 " " 27,000 " " 34 " " 28,000 " " 34 " " 29,000 " " 34 " " 30,000 " " 34 " " 31,000 " " 34 " " 32,000 " " 34 " " 33,000 " " 34 " " 34,000 " " 34 " " 35,000 " " 34 " " 36,000 " " 34 " " 37,000 " " 34 " " 38,000 " " 34 " " 39,000 " " 34 " " 40,000 " " 34 " " 41,000 " " 34 " " 42,000 " " 34 " " 43,000 " " 34 " " 44,000 " " 34 " " 45,000 " " 34 " " 46,000 " " 34 " " 47,000 " " 34 " " 48,000 " " 34 " " 49,000 " " 34 " " 50,000 " " 34 " " 51,000 " " 34 " " 52,000 " " 34 " " 53,000 " " 34 " " 54,000 " " 34 " " 55,000 " " 34 " " 56,000 " " 34 " " 57,000 " " 34 " " 58,000 " " 34 " " 59,000 " " 34 " " 60,000 " " 34 " "																						
	Vardö	991.6	41	N	6	1003.0	+5	23	+2	NW	5	c	4	+	43	14	GALES Duration and Extreme Force in British Islands.  Stornoway: 27 <sup>th</sup> March Squalls WNW 6.  Eskdalemuir: 26 <sup>th</sup> March WSW 8 at 1 p.m. 3 p.m. 6 p.m. 7 p.m.  Main Head: 26 <sup>th</sup> March NW 8 at 1 p.m. W 9 at 6 p.m.  Holyhead: 26 <sup>th</sup> March W 27 m.p.s. in morning  Aberdeen: 26 <sup>th</sup> & 27 <sup>th</sup> March Gust S.W. 24 m.p.s. at 4 p.m. " NW 18 m.p.s. at 4 a.m.  Spurn Head: 26 <sup>th</sup> March NW 8 8 a.m. to Noon Soumpport: 26 <sup>th</sup> & 27 <sup>th</sup> March WSW 8 7 a.m. to 7 p.m. Gust 27 m.p.s.  Notes:- Eskdalemuir: 26 <sup>th</sup> 6 p.m. Lunch of Snow lying Deerness: 27 <sup>th</sup> 7 a.m. Lunch of Snow lying																						
	Bodö	998.8	18	E	2	988.2	0	27	+13	E	6	c	2	+	47	12																							
	Christiansund	998.9	34	SW	4	982.0	0	37	+7	SE	3	c	3	+	39	30																							
	Skudesnaes	998.9	37	SE	6	978.9	-2	34	+2	SE	9	c	7	+	37	32																							
	Færder (Faniafjord)																																						
	The Scaw (Skagen)	994.0	37	S	5	991.0	0	36	0	SW	4	c	4	3	39	28																							
Blaavands Huk	995.0	37	SSW	5	991.8	-1	36	-1	SSW	4	c	3	1	39	34																								
FRANCE, &c.	Haparanda	1004.0	7	SW	4	1001.3	-3	28	+18	S	2	c	3	+	41	28																							
	Hernösand	999.9	23	SE	2	996.2	0	32	+20	S	2	c	3	Trace	32	12																							
	Stockholm	1002.4	34	SE	4	995.1	-4	36	+9	SE	4	c	4	+	39	27																							
	Wisby	1005.6	37	SSW	2	996.6	-5	37	+5	S	2	c	4	+	41	32																							
	Karlstad	997.7	36	NNE	8	993.1	-3	34	+4	+	0	c	3	1	43	28																							
	The Helder	995.0	41	S	4	994.0	+2	39	+2	SW	5	bc	4	4	41	36																							
	C. Gris Nez	998.7	43	WSW	6	1001.3	+3	41	+1	W	7	bc	7	1	43	41																							
	La Hève	1003.1	42	WSW	5	1004.7	+	39	-1	WSW	5	c	5	3	43	37																							
	Brest (St. Mathieu)	1007.1	46	NW	5	1003.7	-4	45	+12	S	1	f	4	2	48	33																							
	Rochefort (Med. Atx)	1000.0	50	WSW	6	1000.9	0	50	-	WSW	5	c	4	2	54	46																							
	Biarritz	1015.5	52	W	4	1014.7	-1	50	+4	S	3	c	3	+	55	46																							
	Paris	1006.0	43	SSW	2	1007.8	+3	39	0	SSW	3	W	0	7	48	37																							
	Belfort	1009.6	46	WSW	6	1011.7	+	44	+5	WSW	7	W	0	4	50	32																							
	Lyons	1011.9	50	-	0	1014.7	+	44	+9	SE	1	W	0	+	59	35																							
	Nice	1007.5	52	SW	2	1011.3	+2	52	+1	E	2	bc	3	+	63	45																							
	Perpignan	1014.3	54	W	1	1017.3	+2	43	0	W	2	bc	4	+	61	36																							
	Sanguinaire	+	58	N	3	+	+	35	-	NW	5	bc	5	+	61	48																							
	SOUTHERN EUROPE.	Corunna (7 a.m.)	1017.6	54	NW	4	1012.7	-5	52	+4	SW	6	c	5	1	55	48																						
Madrid (8 a.m.)		1015.5	55	W	2	1021.2	+2	37	-2	-	0	c	4	+	57	34																							
Lisbon (7 a.m.)		1019.0	55	WNW	4	1020.8	+1	48	-	-	0	bc	6	+	59	46																							
Gibraltar		1018.9	55	W	5	1019.6	+	50	-	NW	3	bc	1	1	61	49																							
Malta (8 a.m.)		+	+	+	+	+	+	33	39	-5	WNW	4	NW	bc	3	+	66	37																					
AZORES, &c.	Azores (Horta, 8 a.m.)	1015.8	+	SW	3	1017.2	-1	60	+3	SSW	5	+	0	3	4	66	37																						
	Madeira (Funchal)	1020.3	63	N	2	1023.3	0	55	0	NE	2	N	c	2	+	64	55																						
YESTERDAY'S REPORTS																				..... 25 <sup>th</sup> ... 8 P.M. G.M.T.																			
ITALY.	Venice	1003.4	55	S	1	1007.7	0	50	4	-	0	bc	2	Trace	+	+																							
	Turin	1007.1	54	-	0	1009.6	0	46	0	-	0	bc	2	+	+	+																							
	Florence	1008.9	57	SW	1	1008.3	0	54	-1	-	0	+	3	+	+	+																							
	Pesaro	1010.7	57																																				





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

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Northerly and North-Westerly winds, strong to moderate; snow showers; low temperature.                          |
| 1  | b |   |   |
| 2  | a | } | Westerly winds, moderate or fresh; mostly fair, but local showers of hail, sleet or rain; temperature low.      |
| 3  | b |   |   |
| 4  | a | } | Same as Nos. 0 and 1.   |
| 5  | b |   |   |
| 6  | a | } | Westerly to South-Westerly or Southerly winds, fresh to light; changeable, hail or rain showers; rather milder. |
| 7  | b |   |   |
| 8  | a | } | Rather variable winds, light or moderate; changeable, some rain or hail; rather milder.                         |
| 9  | b |   |   |
| 10 | a | } | Wind between South and West, light to fresh; sea moderate; rain at times.                                       |
| 11 | b |   |   |

**FURTHER OUTLOOK.**

Millibars  
 1050—  
 1040—  
 1030—  
 1020—  
 1010—  
 1000—  
 990—  
 980—  
 970—



# GENERAL INFERENCE.

There are some indications that a depression is approaching the mouth of the English Channel.



## EXPLANATION.

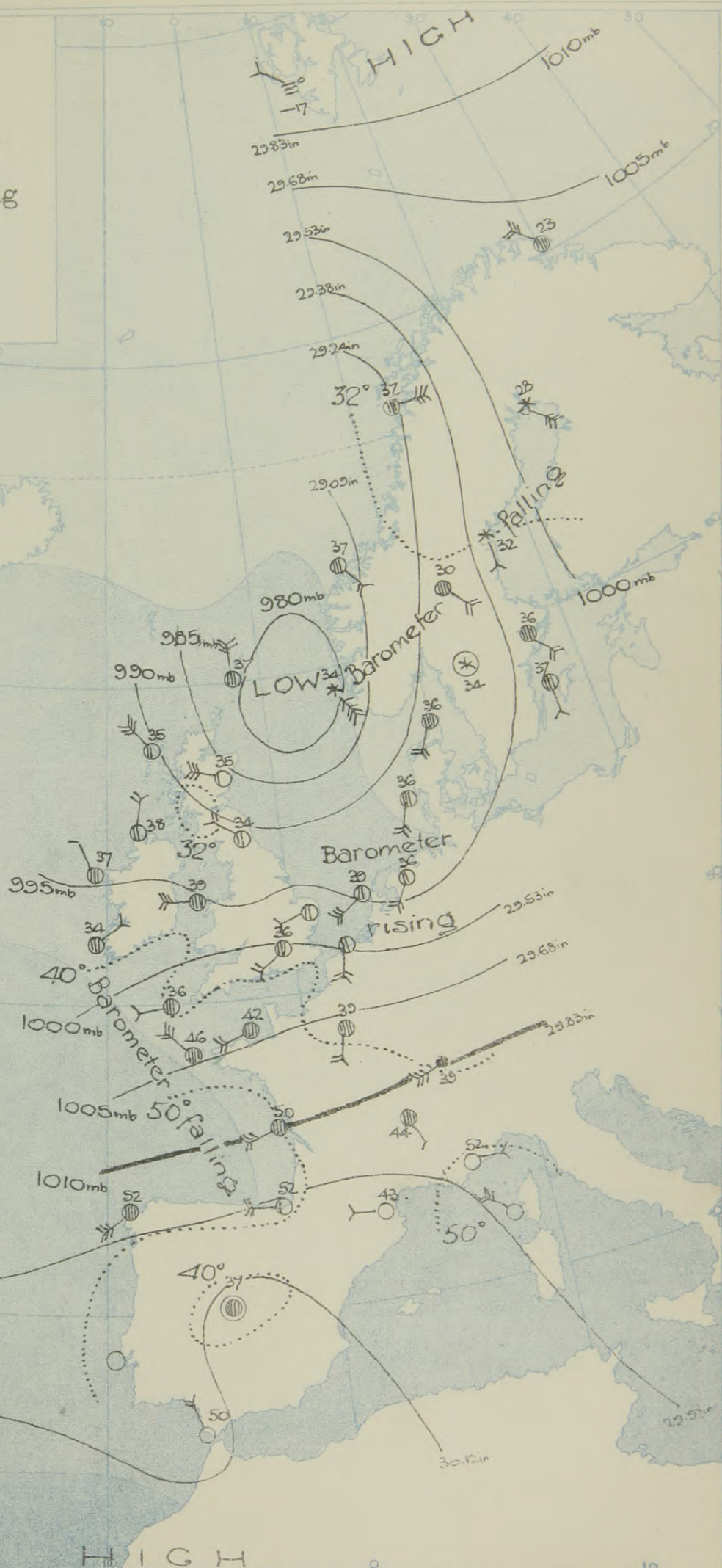
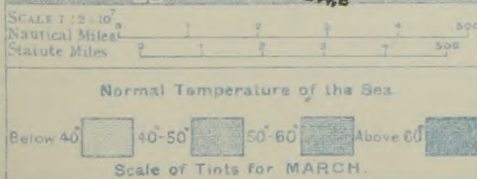
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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.  
 ○ sky ¾ clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 ⚡, thunderstorm.

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





REPORTS FROM RUSSIA FOR YESTERDAY.	STATIONS.	25th...AT 9 P.M. LOCAL TIME.					26th...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.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				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 ...	...						998.7	0	16		W	7		S						
Uleaborg ...	...	996.7	12	NE	4	S														
Helsingfors ...	...	996.3	23	SW	5	0	1007.9	5	19		SW	3		b	0	15				
Hangö ...	...	996.7	19	WSW	8	c	1008.7	+6	19		WSW	3		0	0					
Riga ...	...	1007.8	30	W	5	0	1011.0	+3	30		SW	3		0	0					
Petrograd ...	...	999.7	36	SSE	5	r	1008.6	+7	23		W	4		S		2	32	19		
Moscow ...	...	1006.0	28	SE	3	0	1012.3	+2	37		SSE	2		r		4				
Kiev ...	...	1011.0	46	NW	2	f	1019.3	+4	36		NNW	3		0				36		
Kharkov ...	...	1017.8	45	ESE	2	b														
Kishinev ...	...	1012.4	59	S	3	b	1018.4	+4	45		NW	3		0				43		
Elisabetgrad ...	...						1017.8	?	39		SE	1		0				?		
Nicolaiev ...	...	1014.6	48	SSW	4	b	1017.0		45		S	4		b	0			41		
Odessa ...	...	1014.3	54	-	0	0	1016.2	+2	47		SW	4		0	0			45		

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.							England, E.						
{ Oban ...	6	40	31	Sp	0.	0.0	{ Lowestoft ...	1	46	34	bc	bc	5.1
{ Banff ...	3	39	28	os. bc	bcps.	3.2	{ Felixstowe ...	3	44	34	b. bc	c. bc. bc	4.9
{ St. Andrews ...				*	*		{ Walton-on-Naze ...	2	47	36	b. bc	b. bc. es	7.4
Eng. N.E.							{ Southend-on-Sea ...						
{ Harrogate ...	3	42	29	sp. bc	bcsp. c	4.7	{ Margate ...	2	48	36	b	bc. c. bc	6.0
{ Skegness ...	11	47	32	bc. c	bc. o	7.1	{ Ramsgate ...						
Eng. N.W.							{ Hastings ...	3	46	36	ov. b	b. bc	8.7
{ Morecambe ...							{ Eastbourne ...	3	46	38	bc	bc. bp	8.9
{ Blackpool ...							{ Seaford ...						
{ Southport ...	2	43	32	c. sp. c	c. bc. b	3.4	{ Brighton ...		46	28	bc	bc	9.0
Midlands.							{ Worthing ...						
{ Buxton ...							{ Littlehampton ...	4	45	40	b	b	9.3
{ Leamington Spa ...	3	46	32	b. bc. c	bc. p. c	5.3	{ Bognor ...	5	46	34	bc	bc	9.5
{ Malvern ...							{ Southsea ...						
{ Ross-on-Wye ...	2	42	32	bc	csp.	7.7	{ Bournemouth ...	3	47	35	b	b	10.1
Wales.							England, S.W.						
{ Rhyl ...	5	42	33	p. os	bc	2.4	{ Weymouth ...						
{ Colwyn Bay ...	3	42	33	bc. p	bc. p	2.6	{ Torquay ...	7	47	34	b. os	bc	7.3
{ Llandudno ...	1	42	34	c	c	2.4	{ Paignton ...						
{ Aberystwyth ...	2	41	34	r. o. c	c. o	1.5	{ Penzance ...						
{ Tenby ...							{ Newquay ...	0.3	45	35	cph. b	b. bc.	7.9
							{ Ilfracombe ...						
							{ Weston-super-Mare ...	7	46	36	bc. b. h.	bc. b. h.	6.3

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obsy.) ...	51	70	7.9	49	34	30	2	bc	bc or bp	bc
City (Bunhill Row) ...	*	*	6.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	73	7.4	48	34	33	1	bc	sp. c. bc	bc
Camden Sq. (Brit. Rainfall)	~	68	7.6	48	33	28	1	-	-	*
Hampstead (Reservoir) ...	*	76	7.3	45	30	24	1	bc. os	bc	bc. o
Richmond Park ...	*	*	7.9	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	7.4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	51	69	6.7	1014 Joules		22.6 Milli-watts.		58 Milli-watts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
		° F.	° F.					
Dublin to 4 p.m.	mm. §	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.								*
Manchester „				*				
Birmingham „					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 „								
Plymouth „								
S. Kensington (Museum Grounds to 6 p.m.)	5	48	35	29.	cg. b. or. b.	b. c. o.	b. c. p. b.	*

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

27th March, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.42	11.58	6.17
Greenwich ...	5.50	12.10	6.22
Wick ...	5.55	12.17	6.30
Valencia ...	6.31	12.47	7.3

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 45° in many places, but remained below 40° in Scotland. Considerable or heavy falls of snow occurred in several Scottish localities. Much sunshine was recorded in England.

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

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 id. at M.O. and at the bookstalls at certain Railway Termini in London.

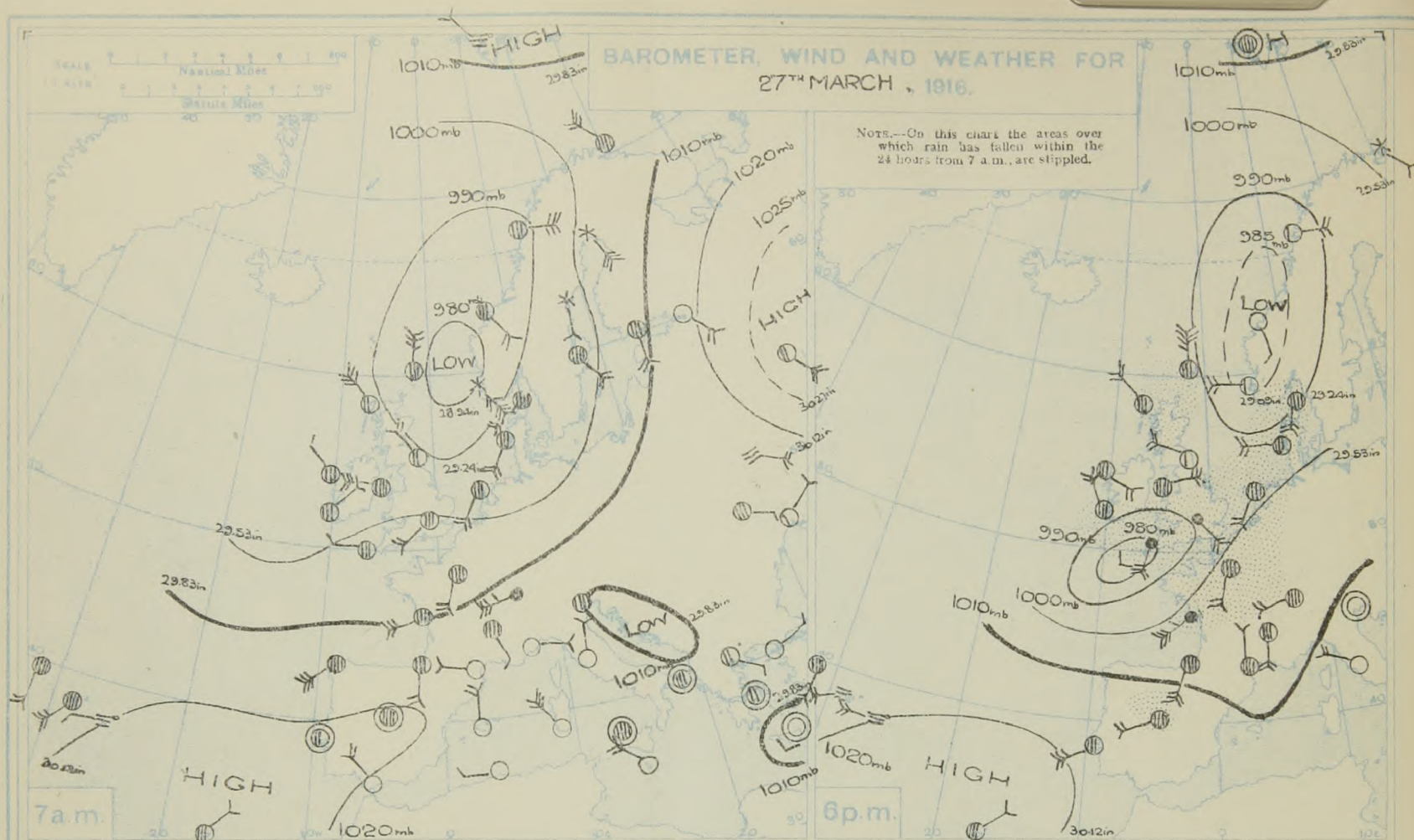


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 88. Tuesday 28<sup>th</sup> March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										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.	Force 0-12.	Dir. of Upper Cloud.	Weather.	Sea 0-3.	Rain- fall. Milli- metres.	Temp.		Weather.			
			Dir.	Force 0-12.				Max.	Min.							Morning.	Afternoon.	Night.			
Lerwick ...	9901	36	N	7	og	9977	0	30	-7	NW	5	NW	bc	5	1	38	27	ospq	ospq	bcph	Hours.
Deerness (Orkney) ...	9939	32	NW	6	ojs	10000	+	32	-1	WNW	6	NW	bc	4	2	40	32	ophs	ophs	bcph	43
Stornoway ...	9982	34	NW	4	c	10048	+5	31	-4	NNE	4	-	cg	5	3	42	30	bcph	aps	bcph	37
Castletown (Barrisd.)																					
Glasgow ...	9961	38	WNW	1	bc	10008	+5	31	-1	NE	3	-	b	4	-	41	30	b	bc	bc	46
Esksdalemuir ...	9961	35	-	0	bc	9980	+3	31	0	NE	6	SW	bc	4	0.4	40	28	b	bc	bc	112
Malin Head ...	9962	40	NNE	3	bc	10000	+6	35	-3	E	5	E	bcg	5	-	45	33	bc	bc	bc	59
Blacksod Point ...	9967	40	ESE	3	c	9998	+6	34	-3	ESE	5	E	bc	3	-	43	33	bc	bc	bc	4
Valencia ...	9925	43	NNW	4	c	9973	+3	36	+2	ESE	4	SW	o	4	0.1	46	33	c	c	bc	25
Roche's Point ...	9927	41	NE	2	o	9969	+	36	+1	N	2	-	o	2	2	44	35	o	o	ospo	4
Birr Castle ...	9936	38	N	1	c	9988	+	32	-1	SNE	1	-	b	4	-	46	31	c	c	b	24
Donaghadee ...	9939	41	NE	4	bc	9970	+6	35	-1	ESE	5	E	bcg	6	-	44	34	bc	bc	bc	4
Liverpool (Bidston) ...	9939	40	N	1	o	9905	+2	36	-2	NNE	5	E	bc	4	-	43	35	bc	bc	bc	27
Holyhead ...	9930	41	ESE	5	bc	9985	+4	39	0	NE	8	NE	cg	7	-	44	39	bc	bc	bc	14
Penbroke (St. Ann's) ...	9980	37	E	4	or													bc	bc	bc	
Scilly (St. Mary's) ...																					
Falmouth ...	9953	42	SSW	5	r	9973	+12	37	+1	WNW	7	-	o	4	4.4	48	33	cg	cg	bc	00
Jersey (St. Aubin) ...	9903	46	S	4	or													bc	bc	bc	
Portland Bill ...	9950	39	ESE	8	or													bc	bc	bc	
Dunegness ...	9941	38	E	4	r	9938	0	43	+3	S	8	S	bc	7	14	47	39	bc	bc	bc	
Dover ...	9959	35	ESE	4	or	9949	0	43	+4	S	8	SW	o	7	25	47	35	bc	bc	bc	66
Wick ...	9949	35	NNW	4	s	10013	+2	30	-3	NNW	4	N	bc	3	5	39	30	bc	bc	bc	
Nairn ...	9968	32	NNW	1	bc	10029	+	33	+1	N	3	-	bc	3	1	38	30	bc	bc	bc	13
Aberdeen ...	9950	35	NNW	4	b	10014	+4	33	-2	NNW	2	N	c	3	1	39	31	bc	bc	bc	24
Leith ...	9953	39	N	1	bc	10001	+3	34	+1	NE	3	NE	c	4	-	43	32	b	b	bc	
Tynemouth ...	9954	42	NW	2	bc	9952	+1	38	+4	ESE	6	-	cg	5	-	46	34	bc	bc	bc	
Spurn Head ...	9955	43	WSW	2	or	9953	-2	35	0	SE	2	-	og	6	9	45	32	cg	bc	bc	22
Yarmouth ...	9969	42	S	3	o	9963	0	42	+7	SSW	5	SW	bc	6	16	48	34	bc	bc	bc	75
Clacton-on-Sea ...	9967	42	S	4	o	9963	0	43	+6	S	7	S	o	6	15	47	36	bc	bc	bc	66
Nottingham ...																					
Benson (Oxon.) ...	9929	37	E	3	r	9762	+5	37	+3	ESE	5	-	r	4	26	45	33	bc	or	or	
St. Farnborough ...	9930	36	ESE	4	r	9767	+3	40	+5	S	6	-	or	4	23	44	32	bc	or	or	45
London (Kew Obs.) ...	9933	39	SE	4	or	9768	0	41	+5	ESE	6	-	or	4	22	47	33	bc	or	or	31
Spitsbergen ...	10107	-17	-	0	o	10082	0	-19	-2	S	2	-	bc	4	-	-17	-35				
Vardö ...	10035	25	SE	2	s	9896	-5	30	+7	SE	4	-	o	4	-	30	16				
Bodö ...	9992	30	S	4	b	9897	0	30	+3	E	1	-	o	1	-	30	23				
Christiansund ...	9812	39	SSE	2	c	9869	+4	39	+2	SW	2	-	c	3	-	45	34				
Skudesuaes ...	9830	36	N	4	b	9930	+5	34	0	NW	6	-	c	5	-	37	34				
Færder (Xania Fjord) ...																					
The Scaw (Skagen) ...	9991	36	SSW	4	o	9958	+5	32	-4	WSW	4	-	c	4	4	41	34				
Blaavands Huk ...	9943	37	N	4	c	9963	0	36	0	SE	1	-	o	1	Trace	39	30				
Haparanda ...																					
Hernösand ...																					
Stockholm ...																					
Wisby ...																					
Karlstad ...																					
The Helder ...	9998	43	SSW	3	o	9997	0	43	+4	S	4	S	bc	3	11	45	36				
C. Gris Nez ...	9955	42	ESE	4	r	9963	0	43	+2	SSW	7	-	o	6	13	45	41				
La Hève ...	9971	45	N	7	o	9946	+	41	+2	SSW	9	-	c	7	5	48	37				
Brest (St. Mathieu) ...	9938	50	SSW	7	f	9919	+2	43	-2	NNW	10	-	c	7	-	50	37				
Rochefort (Ile d'Aix) ...	10026	51	SW	7	r	9975	0	47	-3	N	6	-	c	4	6	52	50				
Biarritz ...	10052	61	SSW	3	o	10038	+5	44	-6	WNW	6	-	r	5	9	63	43				
Paris ...	10002	48	S	4	o	9941	+1	45	+6	SSW	4	-	o	4	1	52	39				
Belfort ...	10079	50	WSW	4	o	10026	+	45	+6	E	2	-	o	4	1	51	39				
Lyons ...	10083	52	S	4	c	9984	+	49	+5	S	5	-	bc	4	-	61	44				
Nice ...																					
Perpignan ...	10070	55	N	2	o	10014	-4	45	+2	N	1	SW	bc	4	-	61	43				
Sanguinaire ...																					
Corunna (7 a.m.) ...																					
Madrid (8 a.m.) ...	10144	52	WSW	3	o	10109	+2	41	+4	N	1	N	o	4	2	54	37				
Lisbon (7 a.m.) ...																					
Gibraltar ...	10183	56	NW	4	c	10159	+	55	+6	N	6	-	bc	3	-	65	49				
Malta (8 a.m.) ...																					
Azores (Horta, 8 a.m.) ...	10198	54	WSW	4	f	10200	0	59	-1	-	0	-	f	2	-	63	59				
Madeira (Funchal) ...	10230	59	NE	2	c	10213	-1	55	0	SW	2	-	b	2	-	61	55				
YESTERDAY'S REPORTS																					
2 P.M., S.F.M., G.M.T.											7 A.M., G.M.T.										
Venice ...	10071	53	-	0	b	10100	+2	48	-2	-	0	-	o	2	-	54	37				
Turin ...	10084	51	-	0	b	10108	+1	45	+9	-	0	-	bc	4	-	54	37				
Florence ...	10099	53	SW	2	b	10121	+2	50	-4	-	0	-	bc	4	-	54	37				
Pesaro ...	10082	53	SSW	2	b	10110	+7	54	0	SW	2	-	bc	2	-	54	37				
Leghorn ...						10122	+2	55	+1	SW	5	-	bc	5	-	54	37				
Rome ...	10106	53	SW	4	r	10132	+1	50	-4	N	2	-	bc	4	-	54	37				
Brindisi ...	10108	53	SW	2	o	10104	+2	55	-2	-	0	-	c	1	16	54	37				
Cagliari ...	10119	62	NW	6	c	10161	0	50	-2	NW	5	-	bc	2	-	54	37				
Palermo ...																					

Notes  
Spurn Head.  
 Snow Storm 14.45 to 7 a.m.  
GALES  
 Duration and Extreme Force  
 in British Islands.  
Holyhead: 28"  
 E.S. at 7 a.m.  
Portland Bill: 27"  
 E.S. 9. 5 pm to 6 pm  
Dunegness: 28"<





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



**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.

South Cone hoisted yesterday

at 7.15 p.m. in Dist. 5 & 8.

Western Channel and Bay

0 } Moderate or fresh Northerly winds; fair weather; cold.

1 } Strong or high Easterly winds, backing and moderating later; dull, some snow; cold.

2 } Strong or high Southerly winds, veering Westerly and decreasing; some rain or sleet, fairer intervals; rather cold.

3 } Same as No. 2.

4 } Same as No. 3.

5 } Moderate or fresh North-Easterly winds, backing Northerly; fair, some snow showers; cold.

6 } Northerly gales, decreasing slowly; fair, some snow or sleet showers; cold.

7 } Moderate North-Easterly winds; fair; cold.

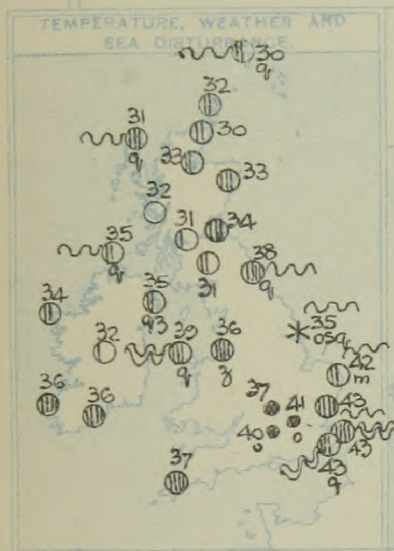
8 } North-Westerly gales, decreasing; high sea; fair, some sleet showers.

**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

The depression over  
Wiltshire is likely to move slowly  
north-eastwards to the North Sea.



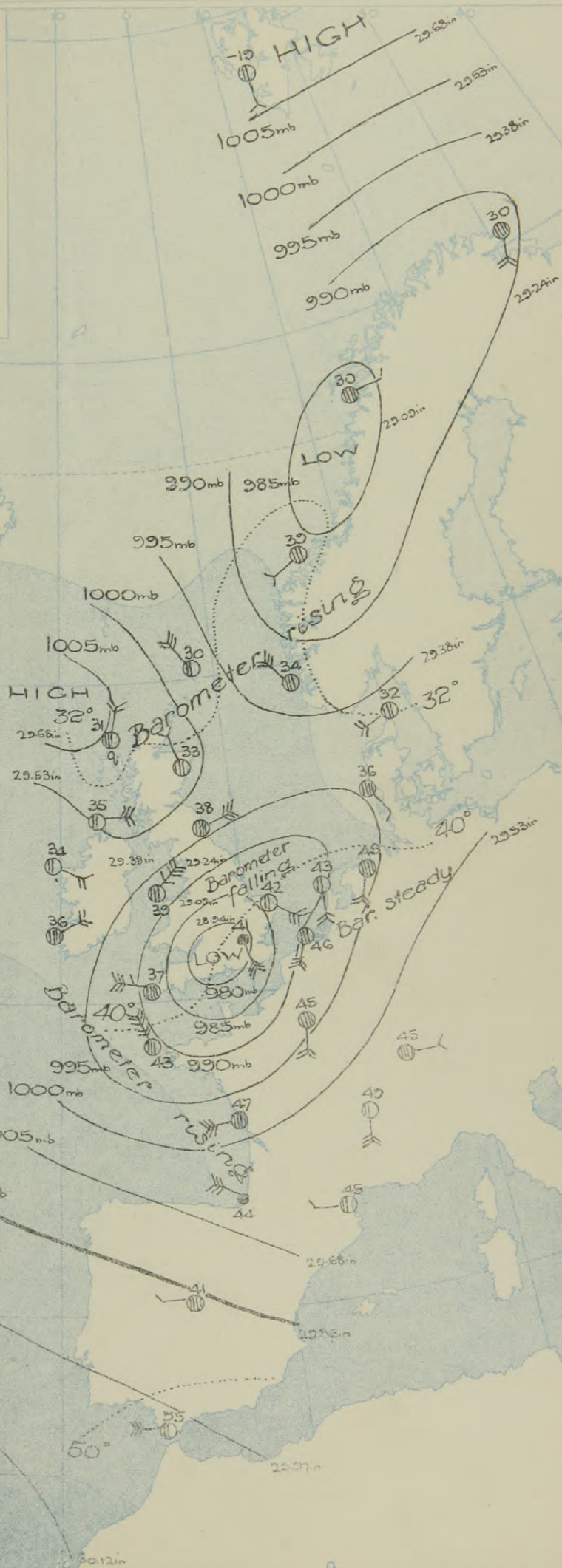
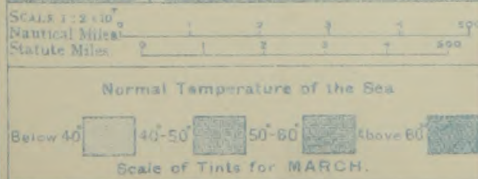
## EXPLANATION.

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

31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	26th. AT 9 P.M. LOCAL TIME.					27th. AT 7 A.M. LOCAL TIME.										Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	WIND.			Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Max.	Min.				
		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.								
Archangel ...	1005.6	19	SW	7	S	1003.4	0	30	+11	SSE	4	0	0	0	0	0			
Uleaborg ...	1012.3	34	S	3	0	1008.8	-4	30	+11	SSE	3	0	0	0	0	0			
Helsingfors ...	1013.7	32	SSW	2	C	1006.1	-4	28	-2	SSE	3	0	0	0	0	0			
Hangö ...	1017.3	32	SSW	2	0	1018.0	-1	27	+4	SE	4	S	b	0	0	36			
Petrograd ...	1025.7	32	NW	1	b	1029.1	0	18	-9	SE	4	0	bc	0	0	12			
Moscow ...	1020.2	36	ENE	2	0	1014.9	-2	39	+3	ESE	4	0	f	0	0	36			
Kiev ...	1022.6	41	ENE	2	0	1022.0	0	39	0	E	2	0	f	0	0	0			
Kharkov ...	1015.4	?	SE	2	b	1013.6	-2	43	-2	SE	2	0	c	0	0	41			
Kishinev ...	1018.4	48	E	1	b	1017.2	0	39	0	SE	2	0	b	0	0	0			
Elisabetgrad ...	1017.2	52	-	0	C	1014.9	0	45	0	ENE	2	0	b	0	0	0			
Nicolaiev ...	1016.4	52	SSW	4	b	1014.1	+1	46	-1	ESE	3	0	0	0	0	45			
Odessa ...																			

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	Oban ... ..	4	44	35	b	b	7.7	England, E.	Lowestoft ... ..	—	49	39	bc.c	c.o	7.8
	Banff ... ..	8	38	32	ops	ops.bc.	1.1		Felixstowe ... ..	—	43	34	bc.b	bc.o	7.3
	St. Andrews ... ..	1	44	32	*	*	10.7		Walton-on-Naze ... ..	—	46	34	b.bz.b	bc.c.o.c	6.5
							Southend-on-Sea ... ..		1	48	34	bc.c.o	c.o	5.2	
Eng. N.E.	Harrogate ... ..	3	47	32	bc.b	b.bc.c.o	7.1	England, S.E.	Margate ... ..	0.2	50	34	bc	c	6.8
	Skegness ... ..	—	47	32	b.bc.o	o.bc.og	2.9		Ramsgate ... ..	—	49	33	bc	o	6.5
Eng. N.W.	Morecambe ... ..	—	42	36	bc	bc.c	7.2		Hastings ... ..	6	47	36	op.bc.b	bc.or	4.2
	Blackpool ... ..	—	42	36	bc	bc.c	7.2		Eastbourne ... ..	—	47	38	b.bc.o	org	3.1
	Southport ... ..	2	45	35	c.or	c.o	2.1		Seaford ... ..	0.3	46	36	bc.o	r	3.2
Midlands	Buxton ... ..	—	42	36	bc	bc.c	7.2		Brighton ... ..	6	44	39	bc.o	ors.r	3.0
	Leamington Spa ... ..	0.3	47	32	bc	c.o	5.5		Worthing ... ..	6	48	38	bc	r	3.2
	Malvern ... ..	0.2	46	33	bc	bc.c.o	4.8		Littlehampton ... ..	7	45	40	b	or	4.0
	Ross-on-Wye ... ..	0.3	46	33	bc	c.or	2.7		Bognor ... ..	10	46	35	b	bc-or	3.4
									Southsea ... ..	—	44	34	b	bc-rs	3.1
Wales.	Rhyl ... ..	3	43	32	hp.d.c	c	1.8	England, S.W.	Weymouth ... ..	10	47	36	bc.c.o	rs.o	1.3
	Colwyn Bay ... ..	2	43	34	bc	bc	4.5		Torquay ... ..	26	44	36	c.o	or	6.1
	Llandudno ... ..	3	43	34	c	c	0.7		Paignton ... ..	24	45	33	bc	or	0.0
	Aberystwyth ... ..	1	44	36	r.o.c	c.o	2.3		Penzance ... ..	31	42	35	or	or	0.0
	Tenby ... ..	3	45	34	bc.o	bc.or	0.1		Newquay ... ..	17	43	32	c.or	ors	0.0
									Ilfracombe ... ..	6	45	32	o	or	0.0
									Weston-super-Mare ... ..	4	45	35	b.bc	or	1.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	° F.	° F.	° F.	mm.‡			
Greenwich (Royal Obsy.) ...	61	90	5.7	49	33	32	22	0.00	0.00	0.00
City (Bunhill Row) ...	*	*	3.5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	62	90	4.6	49	34	32	25	0.0	0	0.00
Camden Sq. (Brit. Rainfall)	61	89	3.6	50	32	31	27	0.00	0	*
Hampstead (Reservoir) ...	*	90	4.2	46	29	28	26	0	0	0.00
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	5.1	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	60	86	4.6	951 Joules		211 Milliwatts.		58 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm §	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	/	44	34	27	δ.	δ δ c	cool	*

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

Date.	Sunrise	Noon.	Sunset.
28th. 29th. March, 1916.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.39	11.58	6.17
Greenwich ...	5.47	12.5	6.23
Wick ...	5.55	12.7	6.40
Valencia ...	6.28	12.46	7.4

## NOTES ON YESTERDAY'S WEATHER.

44 mm. of precipitation were measured at Falmouth, and heavy falls of sleet occurred generally in the night in the south of the country. Sunshine amounts were variable, up to 11 hours at Eskdalemuir. Maximum temperatures remained below 45° in most parts.

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. 89

Wednesday

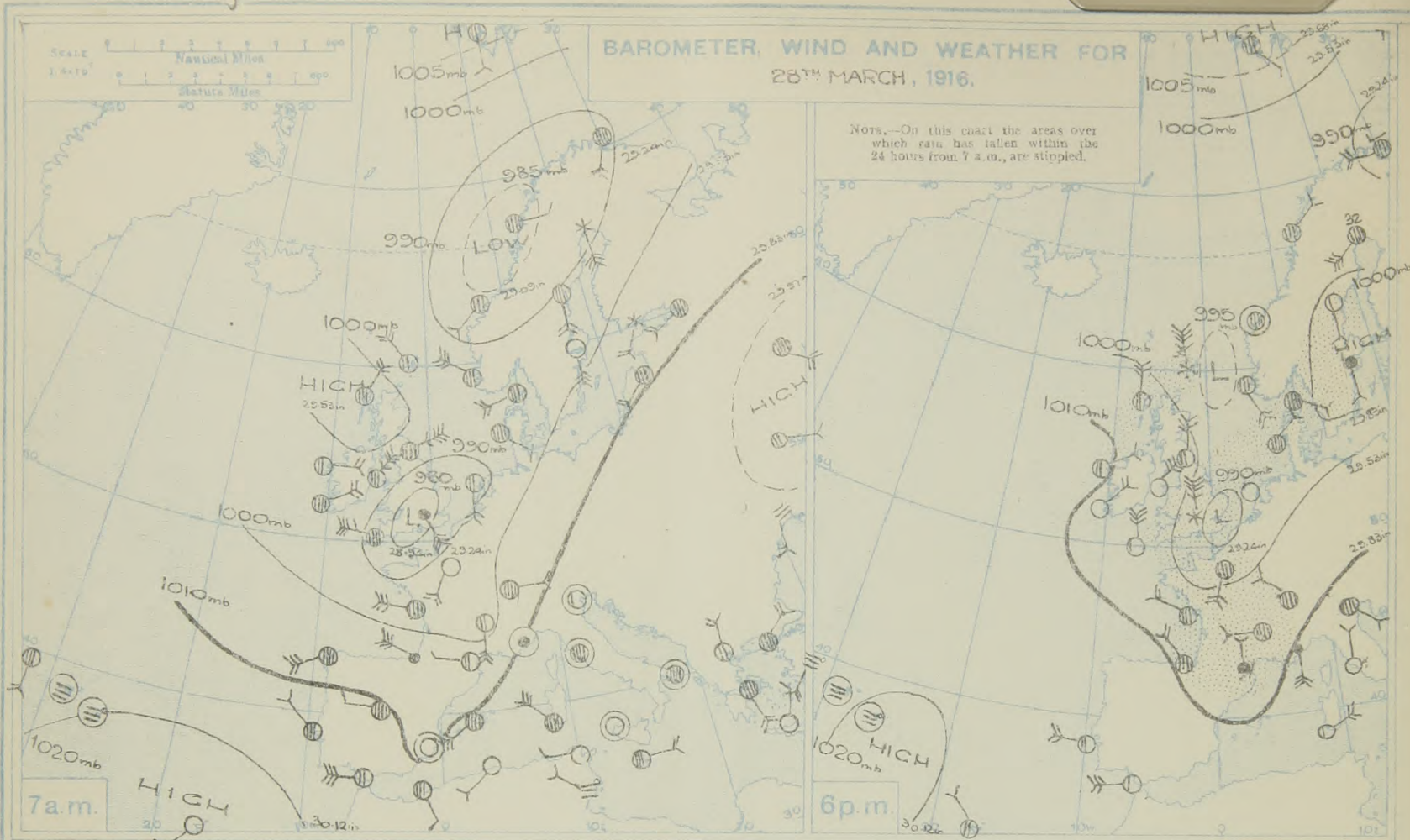
29th March

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M. G.M.T.										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 2 hours.	Dry Bulb.	Change in 2 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	996.4	34	N	4	sg	1004.9	+1	31	71	NW	3	-	b	3	9	37	26	sg. 0	sg. 0	bc b	Hours.
	Deerness (Orkney)	998.6	36	NW	8	cg	1007.1	*	32	0	NW	3	N	bc	3	2	36	32	bc. 0.5	ps. 0.5	c. bc	2.0
	Stornoway	1007.2	35	NW	5	bcg	1006.0	-1	29	-2	W	3	-	bc	3	1	36	26	c. bc. 0.5	c. bc. 0.5	bc	3.1
	Castellbay (Barraisd.)	1004.2	38	NW	4	0	1004.3	0	36	-	SW	3	SW	0	3	-	40	31	bc. 0	0	o. bc. 0.5	4.7
	Glasgow	1003.6	36	NW	2	bc	1011.5	+3	29	-2	W	1	-	bc. m	*	-	40	26	b	b. bc	bc. 0.5	10.3
	Fiskdalemuir	1003.5	31	N	4	b	1012.2	+5	25	-6	NW	1	N	bcx	*	-	37	23	bc	b	bc. 0.5	9.6
	Malin Head	1004.4	38	NW	4	cv	1010.7	-1	34	-1	SW	4	W	cv	3	0.2	40	33	bc	bc	0.5	8.7
	Blacksod Point	1010.3	38	SNE	2	bcv	1012.1	0	39	+5	W	3	NW	bc	2	3	43	33	bcv	bcv	bc. 0.5	*
	Valencia	1009.5	45	NE	3	b	1016.7	+2	44	+8	WSW	3	N	c	*	-	47	29	o. bc	bc	bc. 0.5	8.5
	Roche's Point	1008.7	44	NE	2	b	1007.2	*	36	0	W	2	-	0	2	0.1	48	33	o. bc. 0.5	b	b. 0	*
	Burr Castle	1008.1	42	N	1	c	1015.0	*	31	-1	S	1	-	s	*	1	45	29	c	c	bc. 0.5	9.7
	Donaghadee	1007.4	39	N	5	c	1012.7	+2	31	-4	WSW	3	-	bc. m	2	-	40	31	bcz	bcz	bc. 0.5	*
	Liverpool (Biston)	1008.0	37	N	4	bc	1012.5	+4	36	0	NW	3	-	b	3	-	40	34	ops	o. bc	b	1.8
	Holyhead	1003.6	40	NE	7	bcg	1013.5	+3	39	0	NW	5	N	bc	4	-	43	37	c. bcg	bc. 0.5	bc. 0.5	7.8
	Pembroke (St. Ann's)	1006.0	39	N	5	bcg													cg. bcg	bcg. 0.5		
	Scilly (St. Mary's)																					
	Falmouth	1004.6	40	N	5	bcg	1017.6	+4	36	-1	NW	3	-	cx	*	1	45	30	cg. bcg	bc. 0.5	bc. 0.5	7.7
	Jersey (St. Aubin)	999.3	42	NW	5	cg	1016.5	*	38	-4	NW	3	NW	b	3	1	46	36	cg. 0.5	cg. 0.5	cg. 0.5	0.3
	Portland Bill	998.2	40	NW	7	cg	1016.6	+4	40	-	W	4	W	c	4	1	44	36	c. 0.5	cg	cg	*
	Dungeness	986.3	41	SW	6	c	1011.5	+8	32	-11	W	3	W	bcx	3	0.3	45	29	bcg	bc	bc. 0.5	*
	Dover	987.2	40	SSW	5	0	1011.5	+8	31	-12	NW	5	-	b	4	1	44	29	cg	cg. 0.5	bc. 0.5	0.3
	Wick	1000.7	36	NW	5	c	1007.4	+1	32	+2	NW	1	-	bc	3	1	37	30	bcg. 0.5	bc. 0.5	bc. 0.5	*
	Nairn	1004.7	32	NW	3	cu	1008.7	*	30	-3	NW	2	-	bc	2	-	37	27	bcg	bc. 0.5	c. bcg	4.9
	Aberdeen	1001.9	32	NW	7	cg	1008.2	+5	32	-1	NW	2	-	b	2	1	39	30	bcg	bcg. 0.5	bcg. 0.5	8.5
	Leith	1005.0	37	NW	2	c	1010.6	+2	31	-3	W	1	W	bc	3	-	40	30	b	b	c. 0.5	*
	Tynemouth	1003.3	37	N	5	bcv	1009.4	+6	31	-7	NW	4	-	bc. m	4	-	38	30	cg	bcg	bc. 0.5	8.0
	Spurn Head	998.1	34	ENE	8	0	1008.0	+5	34	-1	N	7	-	cg. 0.5	7	1	37	31	cg. 0.5	cg	cg. 0.5	8.0
	Yarmouth	989.3	41	E	4	r													omr	or		
	Clacton-on-Sea																					
	Nottingham																					
	Benson (Oxon.)	998.8	31	N	9	s	1013.3	+6	31	-6	W	2	-	c	*	6	39	28	s	s	s. 0.5	*
	St. Farnborough	991.3	33	NW	7	s	1013.0	+6	32	-8	NW	3	-	c	*	3	40	29	oro	oro. 0.5	oro. 0.5	0.0
	London (Kew Obs.)	989.4	34	N	8	omshg	1012.9	+7	32	-9	W	3	-	bc. m	*	9	44	30	or. bc. 0.5	omshg	omshg	0.7
NORTHERN EUROPE.	Spitsbergen	1005.5	-11	SSE	1	c	1001.2	+5	-36	-17	SE	2	*	b	*	-11	-36					
	Vardo	984.0	30	W	4	0	1009.5	+9	23	-7	W	4	-	c	4	*	32	18				
	Bodo	994.4	32	NE	2	c	1005.3	0	28	-2	E	4	-	b	2	-	32	25				
	Christiansund	997.7	37	-	0	0	999.3	-1	34	-5	SW	2	-	c	3	-	39	32				
	Skudesnaes	996.2	34	SSE	4	c	997.5	+3	30	-4	NNE	2	-	b	2	-	37	27	3000 feet. N.W. 30 m.p.h.			
	Færder (Vigla Fjord)																	2000 feet. N.W. 27 m.p.h.				
	The Scauw (Skagen)	997.6	36	ESE	2	0	999.3	+9	34	-2	NW	3	-	0	3	12	41	32	Surface. N.W. 11 m.p.h.			
	Blaavands Huk	996.0	37	NE	2	0	999.1	+1	36	0	ESE	1	-	0	1	-	39	34				
	Haparanda	997.6	32	SW	6	0	1011.9	+5	28	0	-	0	-	f	*	-	32	23				
	Hernösand	1001.3	34	S	2	b	1003.3	-3	30	0	NE	4	-	s	*	1	37	19				
FRANCE, &c.	Stockholm	1003.5	34	S	2	r	1000.4	-1	39	+3	SSE	2	SE	0	4	41	36					
	Wisby	1005.1	41	SSE	2	0	1002.4	+1	43	+7	S	4	S	b	*	1	43	36				
	Karlstad	1001.0	36	-	0	0	994.6	+3	36	+2	SW	4	-	0	*	3	41	30				
	The Helder																					
	C. Gris Nez	986.4	39	SW	7	0	1010.0	+10	35	-8	NW	7	*	b	7	1	46	34				
	La Hève	993.7	40	NW	9	0	1013.5	*	36	-5	NW	4	*	b	6	1	43	36				
	Brest (St. Mathieu)	1003.7	45	N	4	bc	1018.9	+5	37	-6	E	2	*	b	3	-	48	36				
	Rochefort (de l'Aix)	1003.2	46	NW	4	c	1014.0	+5	39	-8	NE	5	*	c	*	3	52	39				
	Biarritz	1008.7	48	NW	3	0	1011.1	+2	45	+2	SW	1	*	b	5	6	54	43				
	Paris	997.5	43	SSW	3	bc	1014.1	+7	37	-8	NW	3	-	b	*	1	52	36				
SOUTHERN EUROPE.	Belfort	1007.0	34	NW	2	0	1014.4	*	?	?	W	?	*	?	*	3	50	33				
	Lyons	1007.8	43	W	2	0	1013.2	*	37	-12	W	2	*	b	*	3	55	34				
	Nice	1009.7	49	S	4	r	1010.6	+2	45	+2	E	3	*	0	4	28	52	43				
	Perpignan	1008.7	50	N	3	r	1011.1	+2	46	+1	W	2	-	bc	*	trace	61	41				
	Sanguinaire	*	56	S	4	c	*	*	54	-	E	4	*	0	4	-	61	50				
	Corunna (7 a.m.)																					
	Madrid (8 a.m.)																					
	Lisbon (7 a.m.)																					
	Gibraltar	1004.2	53	W	5	b	1012.2	*	50	-5	NW	4	*	r	3	trace	61	49				
	Malta (8 a.m.)	*	*	*	*	*	1017.0	+3	58	-1	-	0	SW	f	0	-	63	55				
Azores (Horta, 8 a.m.)	1014.9	*	-	0	f																	
Madeira (Funchal)	1010.3	64	NW	2	bc	1018.3	0	59	+4	NE	4	-	0	3	-	66	56					
YESTERDAY'S REPORTS																						
Venice	1013.7	54	-	0	b	1012.7	-2	52	-4	-	0	*	b	2	-	*	*					
Turin	1010.4	54	-	0	b	1011.3	0	46	+1	-	0	*	bc	3	-	*	*					
Florence	1013.7	54	-	0	b	1014.9	0	54	+4	-	0	*	bc	*	-	*	*					
Pesaro	1013.4	52	SE	3	b	1014.0	+2															

UPPER AIR.  
South Farnborough.  
Pilot Balloon Ascent at 7.15 a.m.  
3000 feet. N.W. 30 m.p.h.  
2000 feet. N.W. 27 m.p.h.  
Surface. N.W. 11 m.p.h.

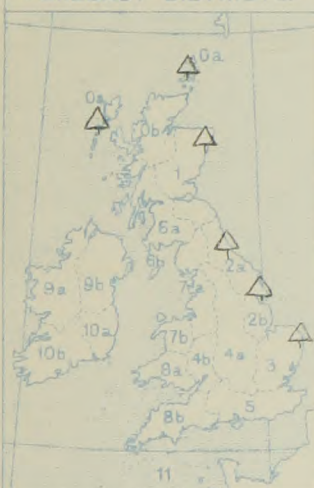
GALES  
Duration and Extreme Force  
in British Islands.  
Lerwick: 28th  
N.W. 15 at 11 a.m.  
N.W. 15 at 11 p.m.  
Holyhead: 28th  
N.W. 8 at 1 p.m.  
Dungeness: 28th  
S.W. 9 a.m. to 2 p.m.  
Squall N.W. at 10 p.m.  
Dover: 28th  
S.W. 8. 11 a.m. to 4 p.m.  
N.W. 8. 9 p.m. to midnight.  
N.W. 10 at 10 p.m. Gust 36 m.p.s.  
Aberdeen: 28th  
Gust W.N.W. 22 m.p.s. afternoon  
Spurn Head: 28th  
S.E. 8. 7 a.m. N.E. 8 at 1 p.m.  
E.N.E. 8 at 6 p.m.  
Benson (Oxon.): 28th  
N.W. 4 p.m. to 6 p.m.  
N.W. 9 at 6 p.m. Gust 31 m.p.s.  
London (Kew Obs.): 28th  
N.W. 5 p.m. to 6 p.m.  
Gust 27 m.p.s





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.

North Coast hoisted yesterday at 2.15 p.m. in Dists 9, 12, 2; and at 7.15 p.m. in Dist. 2.

Western Channel and Bay 11

0 } Moderate Westerly winds, backing South-Westerly or Southerly and freshening a little; fair, some showers; becoming rather milder.

1 } Moderate or fresh North-Westerly winds, backing Westerly or South-Westerly and temporarily decreasing in force; fair, some showers; rather cold.

2 } Moderate winds between West and South-West; mostly fair, but some showers; rather cold.

3 } Moderate Westerly or South-Westerly winds, freshening a little; fair, some showers; rather cold.

4 } Moderate Westerly winds; weather mostly fair; rather cold.

5 } Same as Nos. 6 and 7.

6 } Moderate or light North-Westerly winds and moderate sea; fair weather.

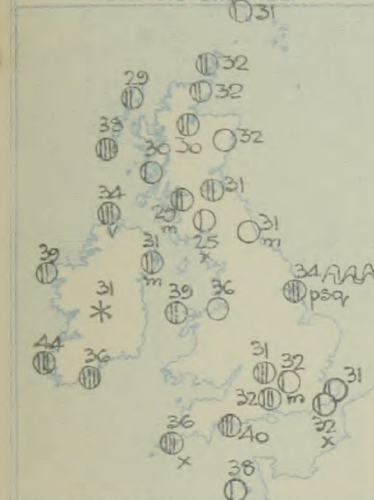
FURTHER OUTLOOK.



# GENERAL INFERENCE.

There are indications that a new depression will be felt in the North-West in the course of to-day.

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

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

⚡, thunderstorm.

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



SCALE 1:200,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MARCH.



# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	27th...AT 9 P.M. LOCAL TIME.					28th...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 0-0.	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 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Uleaborg ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Helsingfors ...	997.0	34	SE	7	o	991.7	0	21	-9	S	4	*	o	*	?	*	*	
Hangö ...	997.0	34	SSW	3	r	1001.7	+3	32	+2	SSW	3	*	s	*	?	*	*	
Riga ...	998.6	32	SSW	2	o	1001.3	0	34	+6	SSW	3	*	o	*	?	*	*	
Petrograd ...	1003.7	36	-	0	bc	1009.2	+4	34	-	SW	3	*	c	*	?	*	*	
Moscow ...	1003.8	32	SE	4	s	1005.5	+4	36	+9	WSW	3	-	o	*	?	36	27	
Kiev ...	1021.7	43	SE	4	o	1018.3	0	34	+16	SSE	3	*	o	*	?	*	18	
Kharkov ...	1021.7	34	SE	4	o	1018.6	-1	34	-5	SSE	4	*	o	*	?	*	32	
Kishinev ...	1017.9	52	ESE	3	b	1017.6	+3	29	0	ESE	2	*	bc	*	?	*	43	
Elisabetgrad ...	1010.3	52	SE	2	b	1014.1	+3	45	+5	N	3	*	r	*	?	*	43	
Nicolaiev ...	1010.6	54	SE	2	b	1013.9	+4	43	+4	-	0	*	bc	*	?	*	39	
Odessa ...	1011.8	54	-	0	c	1013.0	*	45	0	SSE	2	*	f	*	?	*	43	
Odessa ...	1010.0	46	SSW	3	b	1012.8	+2	43	-3	SSW	3	*	f	*	?	*	43	

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

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.							England, E.						
Oban ...	-	42	28	b	bc	5.2	Lowestoft ...	18	44	34	c. br	op	0.4
Banff ...	1	38	31	bc. c	bc. c. u.	5.1	Felixstowe ...	21	43	34	bc. br	or	0.3
St. Andrews ...	...	...	...	*	*	...	Walton-on-Naze ...	...	...	...	...	...	...
England, N.E.							Southend-on-Sea ...	17	43	34	c. br. r	o. br	0.4
Harrogate ...	1	38	32	asp. c	o. c. o	0.3	Margate ...	14	45	34	org	org	0.3
Skegness ...	...	...	...	...	...	...	Ramsgate ...	14	43	30	or	cr	0.2
England, N.W.							Hastings ...	11	47	30	or. c	o	0.7
Morecambe ...	-	42	35	c	bc. c	3.0	Eastbourne ...	13	44	37	m. br	o	1.0
Blackpool ...	...	...	...	...	...	...	Seaford ...	11	47	36	bc. r	o	1.1
Southport ...	-	42	34	c. osq. c	c. b. o. c	2.8	Brighton ...	16	44	36	r. c. o	or. o	0.6
Midlands							Worthing ...	17	43	36	c	c	0.1
Buxton ...	...	...	...	...	...	...	Littlehampton ...	13	41	37	q	og	0.3
Leamington Spa ...	31	36	33	os	os	0.0	Bognor ...	...	...	...	...	...	...
Malvern ...	...	...	...	...	...	...	Southsea ...	...	...	...	...	...	...
Ross-on-Wye ...	...	...	...	...	...	...	Bournemouth ...	23	45	34	o. o. c	os	0.7
Wales							Weymouth ...	12	40	34	ors. c	bc. c	1.0
Rhyl ...	-	41	37	bc. c. bc	bc	3.6	Torquay ...	9	47	36	o	c. bc.	1.8
Colwyn Bay ...	-	40	37	bc	bc	4.0	Paignton ...	8	45	34	o	bc. c	1.6
Llandudno ...	-	41	38	c. b	b	6.8	Penzance ...	21	47	35	c. bc	bc	7.2
Aberystwyth ...	2	43	36	r. o. c	c. bc	7.0	Newquay ...	6	44	35	rg. c. bc	bc. b.	6.9
Tenby ...	...	...	...	...	...	...	Ilfracombe ...	16	44	32	o	c. bc.	2.5
							Weston-super-Mare ...	13	41	31	s. o. c. b.	b. bc. c.	2.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
74 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 96	% 92	Hr. 0.5	° F. 46	° F. 29	° F. 27	mm. § 6	or	or. os	os. o. bc
City (Bunhill Row) ...	*	*	0.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	92	88	0.3	44	29	31	6	or	or. os	or. s. bc
Camden Sq. (Brit. Rainfall)	94	65	0.3	45	33	22	8	or. os	or. os	*
Hampstead (Reservoir) ...	*	64	0.0	41	25	23	6	o	os	os. bc.
Richmond Park	*	*								
Kew. (See front page.)	*	*	0.7	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 318 Joules		Average Rate. 7.0 Milliwatts.		Max. Rate. 56 Milliwatts.		
S. Kensington (Roof of M.O.)	94	76	0.3							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm §	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.								*
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	29	44	33	32	r. r. s. c. q.	or. ogd.	or. os	*

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

29th & 30th March 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.36	11.58	6.19
Greenwich ...	5.34	11.58	6.21
Wick ...	5.45	12.5	6.25
Valencia ...	5.43	12.5	6.27
	5.51	12.7	6.42
	5.48	12.7	6.45
	6.26	12.46	7.6
	6.24	12.46	7.8

NOTE.—The information relating to weather is indicated by the following:  
c. sky three parts clouded; d. drizzling rain; e. wet air, with 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.

## NOTES ON YESTERDAY'S WEATHER.

Snow and sleet fell in the South-East and the Midlands but in other districts the weather was fair with little precipitation. Temperatures remained cold. Strong gales were experienced in the South-East, force 9 or 10 being reported from Dungeness, Dover and Benson, with a gust up to 11 at Kew.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 90. 30<sup>th</sup> March.

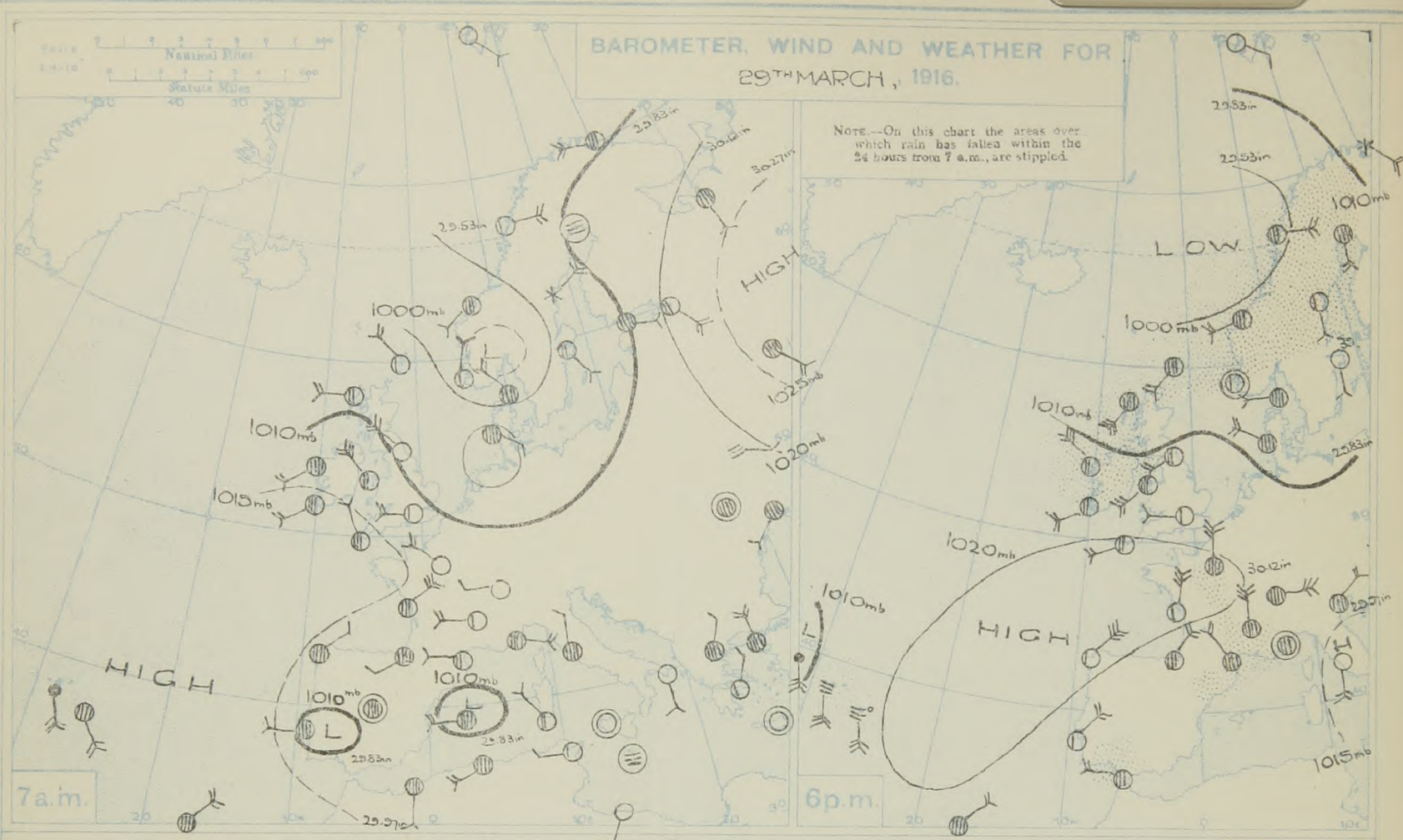
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
Lerwick ...	10041	38	SSW	3	C	99.92	0	39	18	WSW	4	-	0m	3	6	41	30	bc	bc.c	over	Hours.	
Deerness (Orkney) ...	10030	38	S	5	O	100.3	*	42	110	SW	5	-	0	4	2	42	32	bc.c	c.o	over	70	
Stornoway ...	10009	41	SSW	6	opq	10039	13	42	113	WSW	5	-	0dp	5	2	42	28	bc.c	opq	bc.c	28	
Castletown (Dunfermline) ...	10041	44	WSW	4	C	100.1	+2	45	47	WSW	4	-	0	4	3	44	36	bc.c	op.c	c.c.c	0.6	
Glasgow ...	10089	38	SSW	3	over	101.6	+3	41	42	SSW	3	-	0m	*	2	41	28	bc.c	over	over	30	
Eskdalemuir ...	10113	35	SSW	5	O	101.2	+3	40	41	SW	5	-	0	1	1	40	25	bc	O	O	60	
Malin Head ...	10070	42	WSW	5	cmg	101.02	+1	43	49	W	3	-	0m	4	1	42	36	bc	cmg	cm	32	
Blackod Point ...	10108	44	NW	5	bc	101.54	+3	44	45	NW	5	NW	cp	4	3	48	38	bc	bc	cp bc	*	
Valencia ...	10175	47	WSW	4	bc	102.23	+3	44	0	WSW	3	W	c	4	3	48	41	bc	bc	bc	43	
Roche's Point ...	10184	46	NW	3	C	102.26	*	44	45	WSW	2	-	0	2	2	49	36	c.c	cp.c	ad.op	*	
Birr Castle ...	10140	45	WSW	1	C	101.44	*	43	42	SW	1	-	0	3	3	50	31	bc	cp	c.c	43	
Donaghadee ...	10103	44	WSW	4	cmg	101.44	+2	43	42	WSW	4	W	cmg	3	Trace	46	30	c	cmg	cmg	*	
Liverpool (Bidston) ...	10152	42	SSW	3	bc	101.78	+3	43	43	SW	3	W	0	2	-	44	36	bc	c	O	73	
Holyhead ...	10139	43	SW	5	cmg	101.81	+3	44	47	WSW	4	-	0	3	-	44	38	bc.c	bc.c	c	53	
Pembroke (St. Ann's) ...	10171	44	W	2	C	102.10	+2	44	44	W	3	W	c	3	Trace	44	34	c	cmg	cmg	12	
Scilly (St. Mary's) ...																						
Falmouth ...	10202	42	WSW	3	bc	102.40	+3	43	47	W	3	-	0	4	4	49	35	bc	bc	bc	65	
Jersey (St. Aubin) ...	10212	42	NW	3	cp	102.45	*	44	46	SW	3	-	0	3	8	46	35	bc	cp	cp	37	
Portland Bill ...	10185	44	W	4	bc	102.35	+2	45	45	W	3	W	bc	3	-	45	39	bc	bc	bc	*	
Dungeness ...	10190	42	NW	2	bc	102.34	+2	44	42	SSW	4	S	CU	4	Trace	46	32	bc.c	bc.c	bc	*	
Dover ...	10205	37	NW	1	bc	102.38	+3	43	42	SSW	5	SW	0	6	0.1	46	31	bc	bc	bc	9.7	
Wick ...	10037	38	SSW	4	C	100.82	+1	40	42	SSW	3	-	0	3	1	40	30	bc	bc	cp	*	
Nairn ...	10040	40	W	1	cmg	100.60	*	42	42	W	3	-	0	2	-	42	29	bc	bc	cmg	63	
Aberdeen ...	10071	40	SW	4	O	100.71	+2	42	42	SSW	2	-	0m	2	-	45	32	bc	bc	cmg	9.9	
Leith ...	10088	40	SW	1	O	100.92	+2	43	42	WSW	2	W	c	3	-	44	31	bc	bc	c.c	*	
Tynemouth ...	10154	41	SW	3	cmg	101.33	+1	44	42	WSW	2	W	cmg	3	-	44	31	bc	cmg	cmg	*	
Spurn Head ...	10154	44	SW	3	bc	101.98	+1	44	0	WSW	4	-	0	5	6	44	33	bc	bc	bc	*	
Yarmouth ...	10177	41	NW	2	bc																	
Clacton-on-Sea ...																						
Nottingham ...																						
Benson (Oxon.) ...	10180	37	W	1	bc	102.22	+3	37	46	SSW	2	-	0	*	-	44	31	bc	bc	bc	*	
St. Farnborough ...	10184	42	WSW	2	bc	102.23	+3	40	48	S	2	-	0	0.1	46	32	bc	bc	bc	9.3		
London (Kew Obs.) ...	10189	42	W	2	bc	102.30	+3	40	48	SSW	2	-	0m	Trace	44	31	bc	bc	bc	9.9		
Spitsbergen ...	10117	24	SE	1	bc	101.26	0	24	42	SE	1	*	0	4	4	24	36					
Vardö ...	10146	28	SE	4	S	99.92	-1	34	41	S	5	-	0	3	*	34	19					
Bodö ...	99.97	32	E	4	C	99.66	+1	36	48	SSW	4	-	0	2	9	36	27					
Christiansund ...	10016	34	WSW	3	C	100.17	-2	34	0	SE	4	-	0	4	6	34	30					
Skudenes ...	10056	34	-	0	bc	100.70	-1	36	46	WSW	3	-	0	4	6	37	30					
Færder (X. L. J. J.) ...																						
The Scaw (Stagen) ...	10034	34	WNW	2	O	101.63	+7	34	0	W	4	-	0	4	3	36	30					
Blavands Huk ...	10071	37	WNW	4	O	102.02	+3	37	41	SW	3	-	0	3	3	37	32					
Haparanda ...	10029	36	S	4	O	100.57	+1	34	46	SW	6	-	0	6	37	27						
Herrösand ...	10006	36	S	2	bc	100.42	+1	34	44	-	0	-	0	2	36	28						
Stockholm ...	10069	34	S	2	bc	100.6	+5	34	45	SW	4	-	0	Trace	45	34						
Wisby ...	10093	37	SSW	2	bc	101.59	+7	36	47	WSW	6	-	0	*	-	46	32					
Karlstad ...	10050	34	-	0	S	101.23	+1	30	46	SSW	2	-	0	3	37	28						
The Helder ...																						
C. Gris Nez ...	10194	40	WNW	2	O	102.39	+3	40	45	SSW	4	*	bc	2	-	45	35					
La Hève ...	10194	41	WNW	3	bc	102.50	*	36	0	SSW	4	*	bc	5	-	45	36					
Brest (St. Mathieu) ...	10239	47	WNW	4	bc	102.66	+2	47	40	W	4	*	c	3	-	48	37					
Rochefort (St. Albans) ...	10217	47	NNE	5	bc	102.86	+4	39	0	ESE	3	*	c	2	-	54	36					
Biarritz ...	10147	49	NNE	3	C	102.78	+3	40	46	ESE	3	*	bc	5	-	50	37					
Paris ...	10210	34	-	0	bc	102.77	+4	30	47	SSW	1	-	0	Trace	46	27						
Belfort ...	10183	37	E	5	O	102.73	*	33	?	E	2	*	m	*	?	46	32					
Lyons ...	10184	41	N	4	O	102.55	*	35	42	N	3	*	0	*	-	51	33					
Nice ...	10113	42	-	0	C	101.76	+1	45	0	E	2	*	0	3	34	46	41					
Perpignan ...	10116	52	NW	3	O	102.37	+8	42	43	NW	4	SW	bc	4	4	59	41					
Sanguinaire ...	*	56	SSE	4	O	*	*	51	43	E	2	*	T	2	6	59	43					
Corunna (7 a.m.) ...	10252	52	NE	6	bc	103.20	+7	43	42	S	1	-	0	3	-	54	37					
Madrid (8 a.m.) ...																						
Lisbon (7 a.m.) ...	10137	52	NNE	4	bc	102.38	+4	46	41	NNE	4	-	0	5	-	54	45					
Gibraltar ...	10132	49	W	3	bc	101.73	*	45	45	NW	4	*	bc	3	1	58	45					
Malta (8 a.m.) ...	*	*	*	*	*	101.40	+2	61	43	SE	2	-	0	*	-	66	55					
Azores (Horta, 8 a.m.) ...	10158	*	SE	5	f	100.84	-4	59	0	SE	7	*	T	4	5	64	59					
Madeira (Funchal) ...	10144	63	NE	3	O	102.24	+2	57	42	NE	3	NE	bc	3	-	63	57					
YESTERDAY'S REPORTS		28th, 5 P.M. G.M.T.					March 29th, 7 A.M. G.M.T.															
Venice ...	10122	53	SE	2	O																	
Turin ...	10086	48	-	0	bc	101.44	*	45	-1	-	0	*	0	3	*	*	*					
Florence ...	10150	53	NW	2	bc	101.42	+2	54	0	-	0	*	bc	*	-	*	*					
Pesaro ...	10153	33	SE	2	bc	101.46	+2	52	+2	-	0	*	c	2	-	*	*					
Leghorn ...						101.30	0	55	+3	SE	5	*	bc	6	-	*	*					

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

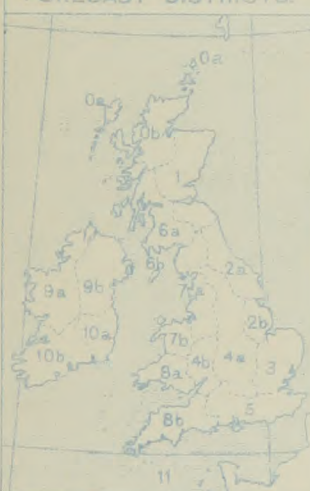
‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

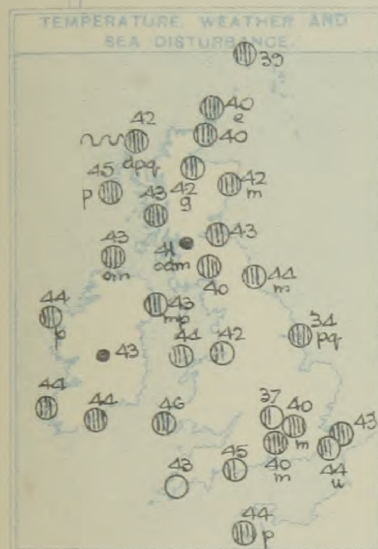
- |    |            |  |
|----|------------|--|
| 0  | a }<br>b } | Fresh or strong winds between West and North-West; dull, some rain; temperature rather cold. |
| 1  | a }<br>b } | Moderate or fresh Westerly winds; fair, showery; normal temperature.                         |
| 2  | a }<br>b } | Moderate winds between West and South-West; fair, some showers; normal temperature.          |
| 3  | a }<br>b } | Fresh Westerly winds; dull, some rain, fairer intervals; normal temperature.                 |
| 4  | a }<br>b } | Same as Nos. 3 to 5.   |
| 5  | a }<br>b } | Same as No. 2.   |
| 6  | a }<br>b } | Same as Nos. 3 to 5.   |
| 7  | a }<br>b } | Moderate Westerly winds; slight sea; fair weather.   |
| 8  | a }<br>b } |  |
| 9  | a }<br>b } |  |
| 10 | a }<br>b } |  |

**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

The Secondary which is forming off the Norwegian coast is likely to cause some freshening of the wind in the North-east of Scotland.



## 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:—

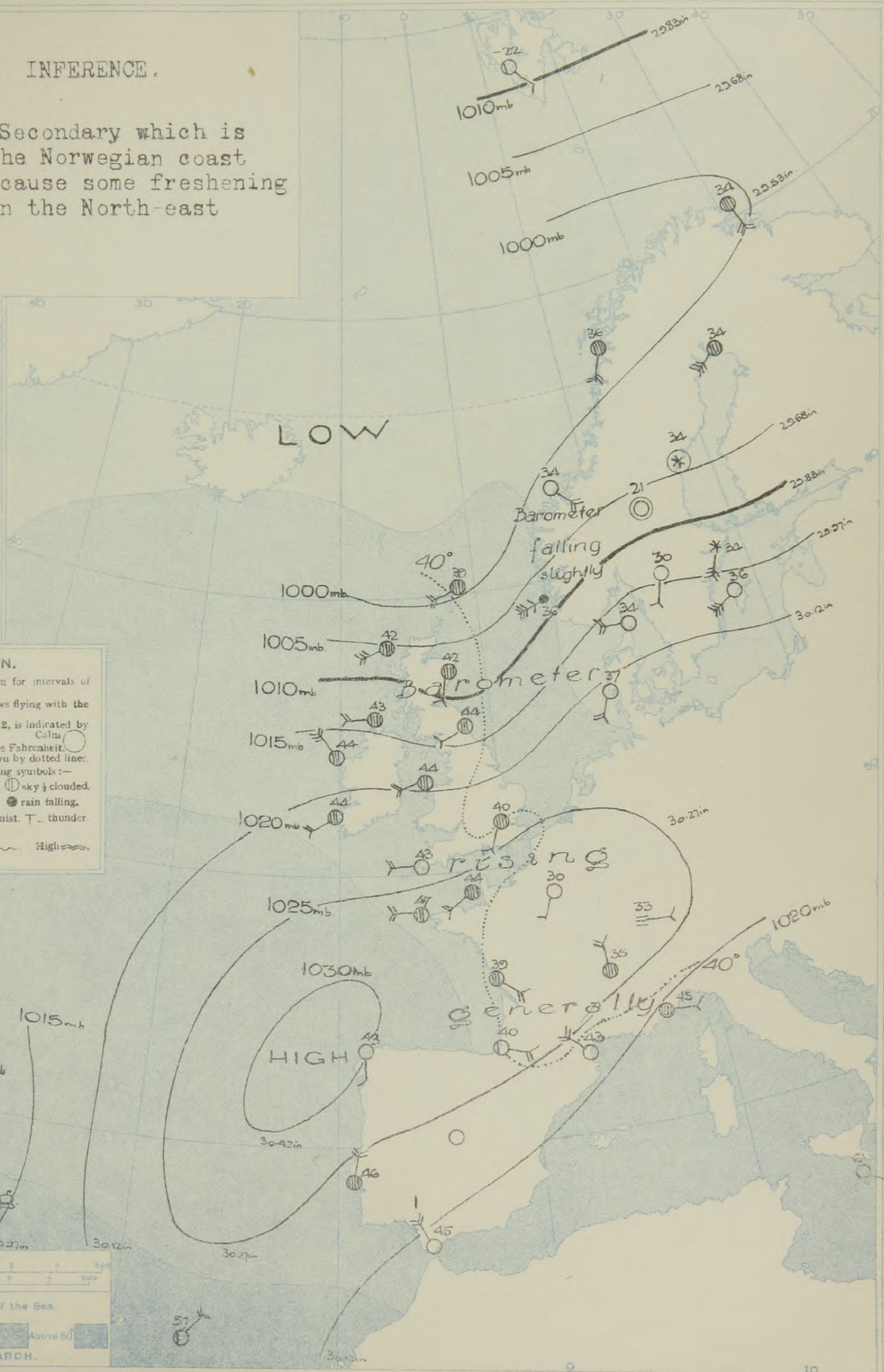
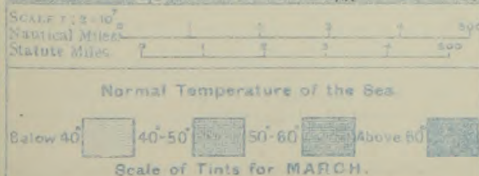
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 2/3 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
 TS, thunderstorm.

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

Inches  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	28th.....AT 9 P.M. LOCAL TIME.					29th.....AT 7 A.M. LOCAL TIME.										Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
	BAROM. Milli- bars at M.S.L.	TEMP. ° F.	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. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.									
Archangel ...	1010.1	34	S	4	o	1021.6	+8	34	.	S	3	*	o	?	.	*	30			
Uleaborg ...	1002.4	25	S	4	o	1011.1	+4	32	+11	SE	2	*	c	*	.	*	.			
Helsingfors ...	1013.5	37	SSW	3	r	1012.7	o	37	+5	E	2	*	o	o	.	*	x			
Hangö ...	1010.9	25	SSW	3	o	1009.7	+3	36	+2	SSE	7	*	o	?	2	*	x			
Riga ...	1015.1	39	SSE	3	b	.	.	.	.	.	.	*	.	.	.	*	x			
Petrograd ...	1018.4	37	S	4	o	1021.1	o	34	-2	SSE	4	SW	bc	*	.	41	34			
Moscow ...	1028.3	34	SE	1	o	1027.6	+1	34	o	SSE	3	*	o	*	2	*	34			
Kiev ...	1018.0	43	NNE	2	o	1015.7	o	48	+14	ESE	2	*	f	*	2	*	34			
Kharkov ...	1020.8	48	SE	1	b	1023.5	+2	45	+6	ESE	3	*	o	*	.	*	.			
Kishinev ...	1016.4	46	NNW	3	b	1017.9	+2	45	-3	.	o	*	o	*	.	*	43			
Elisabetgrad ...	1014.7	54	.	o	r	1017.2	+3	50	+7	SSE	2	*	o	*	6	*	43			
Nicolaiev ...	1015.4	52	SW	2	c	1018.3	*	48	+3	SSE	2	*	o	o	.	*	45			
Odessa ...	.	.	.	.	.	1017.2	+2	50	+7	SW	2	*	o	o	1	*	43			

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

STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.		Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
			Max.	Min.	Forenoon.	Afternoon.					Max.	Min.	Forenoon.	Afternoon.	
		mm. & .	° F.	° F.			Hr.			mm. & .	° F.	° F.			Hr.
Scotland.	Oban ... ..	-	42	27	bc	o	1.2	England, E.	Lowestoft ... ..	-	44	30	o bc	bc m	6.8
	Banff ... ..	-	42	32	bc, b	b, bc	9.3		Felixstowe ... ..	-	44	30	bc, c, b	b, bc, bc m	6.4
	St. Andrews ... ..	-	44	29	*	*	7.4		Walton-on-Naze ... ..	-	46	29	c, bc, bz	bz	7.9
									Southend-on-Sea ... ..	-	46	29	c, bc, bz	bz	7.9
Eng., N.E.	Harrogate ... ..	-	44	28	b	b, bc, c	10.0	England, S.E.	Margate ... ..	4	44	33	bc	bc	8.6
	Skegness ... ..	-	44	28	b	b, bc, c	10.0		Ramsgate ... ..	3	43	30	bc	bc	9.3
Eng., N.W.	Morecambe ... ..	-	42	32	bc	bc, o	8.0		Hastings ... ..	1	45	30	os, bc, b	b	10.1
	Blackpool ... ..	-	42	32	bc	bc, o	8.0		Eastbourne ... ..	0.3	46	31	b, bc, b	bc, b	8.6
	Southport ... ..	-	44	33	b	b, bc, c, o	8.1		Seaford ... ..	1	48	31	bc	bc	8.2
									Brighton ... ..	1	47	31	o, c, bc	bc	9.5
Midlands.	Buxton ... ..	-	44	33	b	b, bc, c, o	8.1		Worthing ... ..	1	49	29	bc	bc, b	8.9
	Leamington Spa ... ..	2	45	27	b, bc	b, bc	8.6		Littlehampton ... ..	2	47	37	b	b	9.0
	Malvern ... ..	-	44	33	b	b, bc, c, o	8.1		Bognor ... ..	1	47	30	bc	bc	8.7
	Ross-on-Wye ... ..	-	44	33	b	b, bc, c, o	8.1		Southsea ... ..	-	50	31	b	b	9.3
Wales.	Rhyl ... ..	-	44	35	bc	bc, c	6.6	England, S.W.	Weymouth ... ..	-	50	32	b	b, bc	8.0
	Colwyn Bay ... ..	-	46	35	bc	bc	5.5		Torquay ... ..	-	48	29	o, c	c	4.0
	Llandudno ... ..	-	44	36	b	b, bc	5.9		Paignton ... ..	-	50	32	bc, c	cph	6.4
	Aberystwyth ... ..	-	44	34	o, c	c, o	4.5		Penzance ... ..	1	47	34	bc	bc	5.0
	Tenby ... ..	-	48	30	bc	bc, c	1.3		Newquay ... ..	-	46	33	bc	c, o	3.0
									Ilfracombe ... ..	-	46	33	bc	c, o	3.0

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	56	87	8.9	46	32	26	—	b	b	b, c, bc
City (Bunhill Row) ...	*	*	8.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	84	8.6	46	34	29	—	b	b	b
Camden Sq. (Brit. Rainfall)	56	84	7.9	47	26	27	Trace	b	b	*
Hampstead (Reservoir) ...	*	84	8.8	43	34	23	—	bc, b	bc, b	bc, c
Richmond Park	*	*	9.5	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	9.9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	55	84	7.2	Total. 1450 Joules		Average Rate, 32.0 Milliwatts.		Max. Rate, 65 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	Rain- fall. mm. & .	TEMPERATURE.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	
		Max.	Min.	
Dublin to 4 p.m.		°F.	°F.	*
Datwen to 9 p.m.		°F.	°F.	*
Manchester "		°F.	°F.	*
Birmingham "		°F.	°F.	*
Oxford to 8 p.m.		°F.	°F.	*
Teignmouth to 9 "	50	30	22	bc
Plymouth "	3	46	30	bc, b
S. Kensington (Museum Grounds to 5 p.m.)	3	46	30	bc, b

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

30th & 31st March, 1916.			
	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.34	12.58	6.21
Greenwich ...	5.32	12.57	6.22
Wick ...	5.43	12.5	6.27
Valencia ...	5.48	12.17	6.45
	5.45	12.16	6.44
	5.44	12.16	6.44
	5.44	12.16	6.44

## NOTES ON YESTERDAY'S WEATHER.

Sunshine measurements were generally high, up to 10 hours at Hastings, but showers fell in many districts. Temperature has risen a good deal during the 24 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.

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



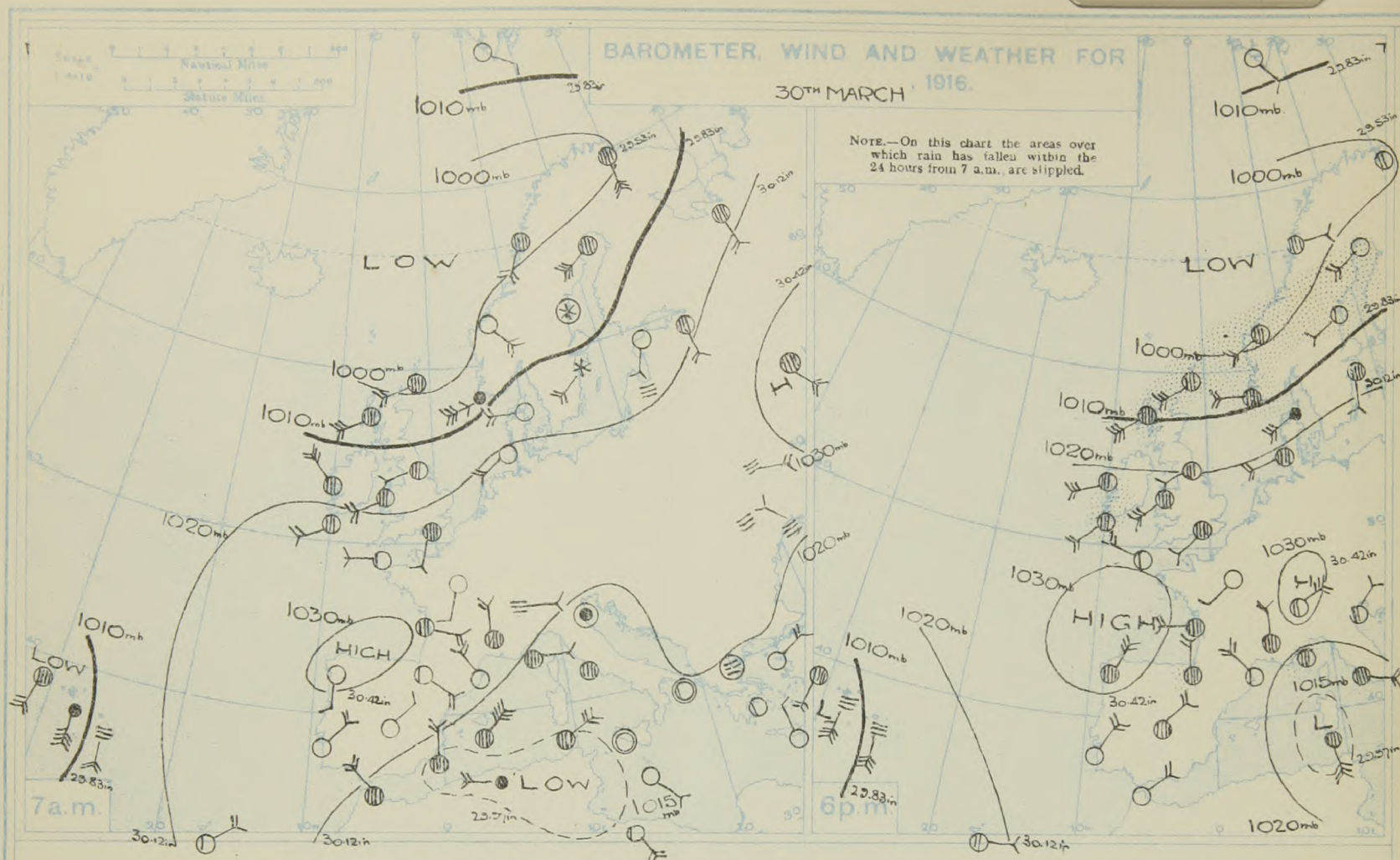
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 91.

Friday

31st March

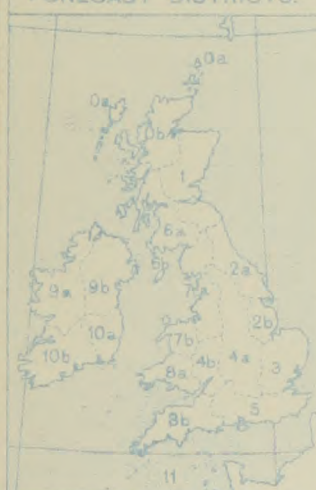
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea (0-9).	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
Lerwick ...	10037	43	WSW	5	c	10077	+1	43	+4	W	4	-	om	3	17	46	38	opg	o.c	omr	Hours.	
Deerness (Orkney) ...	10071	45	SW	6	opd	10095	*	45	+3	SW	5	-	r	4	8	47	41	o.c	copd	odr	1.5	
Stornoway ...	10095	46	WSW	6	og	10109	+1	49	+7	WSW	7	-	org	6	6	49	41	og	og	org	0.1	
Castlebay (Barra Isd.) ...	10135	47	SW	5	op	10155	+1	48	+8	SW	5	-	opm	6	1	48	44	opom	om op	opm	0.0	
Glasgow ...	10174	46	W	4	o	10205	+2	45	+4	SW	5	W	c	*	1	48	41	omdp	o.c omp	omdp	0.5	
Esksdalemuir ...	10194	43	SW	5	od	10224	+2	42	+2	SSW	6	W	o	*	2	44	39	o.c o	o.c o	or b.c o	0.0	
Malin Head ...	10167	46	WSW	4	om	10186	+2	47	+4	SW	5	SW	deg	5	-	46	42	omg	om	deg	1.8	
Blacksod Point ...	10203	47	WSW	5	cp	10221	+1	47	+3	WSW	6	W	cgm	5	2	50	43	deg	cp	cm	*	
Valencia ...	10259	50	SW	4	c	10279	+1	47	+3	S	3	SW	b	8	0.1	52	44	c.o	o.c	b.c.c.c	0.5	
Roche's Point ...	10269	50	WNW	3	c	10297	*	46	+2	SW	2	W	c	2	-	51	44	o.c.o	c.o	c.b.c.c	*	
Birr Castle ...	10242	49	SW	2	c	10259	*	47	+4	SW	2	-	c	*	0.2	51	42	cp.o	c	c	0.8	
Donaghadee ...	10202	49	W	4	cgm	10237	+1	46	+3	SW	4	SW	cgm	3	-	52	42	cgm	cgm	omg	*	
Liverpool (Bldston) ...	10235	47	WSW	3	o	10278	+2	46	+3	SW	2	W	c	2	-	50	43	o	c.o	bc	0.3	
Holyhead ...	10238	46	SW	5	o	10273	+2	44	+3	SW	4	-	o	3	-	48	43	c.og	og	o	0.1	
Pembroke (St. Ann's) ...	10271	45	W	3	c	10302	+1	46	+2	W	2	-	c	2	-	47	44	c	c	c	0.0	
Scilly (St. Mary's) ...	10285	48	WNW	3	b	10346	+1	44	+1	WNW	2	-	c	*	-	53	41	c.b.c	c.b.c.b	b.o.c	8.3	
Falmouth ...	10284	49	W	3	o	10315	*	46	+2	WNW	2	-	o	2	Trace	52	43	p.c.c.o	o.c.o	c.o	3.0	
Jersey (St. Aubin) ...	10274	46	WSW	3	o	10317	+2	45	0	NW	1	NW	o	2	-	48	44	b.c.c	c.o	o.c	*	
Portland Bill ...	10267	45	SW	3	bc	10312	+2	40	+4	NNE	1	NW	b	1	?	49	34	bc	bc	b.c.b.w	*	
Dungeness ...	10280	43	SW	3	bc	10310	+2	44	+1	-	0	-	m	2	1	46	36	b.c.c	c.b.c	b.x.x	1.3	
Dover ...	10280	43	SW	3	bc	10310	+2	44	+1	-	0	-	m	2	1	46	36	b.c.c	c.b.c	b.x.x	1.3	
Wick ...	10088	44	W	4	o	10112	+2	45	+5	SW	3	SW	r	3	0.2	47	40	og	og	omg d	*	
Nairn ...	10113	47	W	2	og	10142	*	48	+6	W	4	-	cgg	2	-	51	42	og	eg.og	c.b.c	1.2	
Aberdeen ...	10134	48	SW	4	o	10156	+1	50	+8	W	2	-	o	2	-	54	42	om.c	o.c	c.b.c.o	1.4	
Leith ...	10164	48	SW	3	o	10180	+1	47	+4	W	3	W	c	4	-	48	43	c.o	o	o.c.g.c	*	
Tynemouth ...	10190	49	WSW	2	om	10230	+2	46	+2	WSW	2	W	cm	3	-	49	43	om	om	om	2.0	
Spurn Head ...	10220	46	WNW	4	o	10277	+1	42	+8	W	4	-	c	4	-	48	34	c	o	o	*	
Yarmouth ...	10258	47	WSW	3	bc	10295	+3	43	+8	W	2	-	bcm	2	-	51	35	b.m.b.c	bc	bcm	4.5	
Clacton-on-Sea ...	10267	44	SSW	2	o	10310	+2	40	-1	W	1	W	c	1	-	47	39	b.c.c	c.o	o.b.c.w.c	3.0	
Nottingham ...	10239	48	WSW	3	c	10283	*	45	-	W	1	W	cm	*	-	53	36	c.o	o.c	c	5.4	
Benson (Oxon.) ...	10265	47	WSW	2	o	10308	+2	43	+6	WSW	1	-	o	*	-	52	37	b.o.o	bc	o	*	
St. Farnborough ...	10265	48	W	2	c	10308	+2	44	+4	WSW	1	-	o	*	Trace	52	39	o.c.o	r.o.c	c.o	1.0	
London (Kew Obs.) ...	10269	49	SW	2	o	10311	+2	44	+4	SSW	2	-	om	*	-	51	40	om.o	c.b.c. om	memor	0.6	
Spitsbergen ...	10119	36	SE	1	b	10123	+3	22	+2	SE	2	*	m	*	*	20	140	UPPER AIR.				
Vardö ...	9957	32	-	0	bc	10220	+3	25	-9	SW	5	-	bc	0	*	36	21	South Farnborough.				
Bodö ...	10013	36	SW	4	c	9951	0	34	-2	WSW	4	N	S	2	?	36	30	Milot Balloon Ascent at 7.12 AM.				
Christiansund ...	9984	41	SW	4	c	10004	0	36	+2	W	4	-	r	4	6	43	34	4000 feet. W.N.W. 12. mph				
Skudesnaes ...	10037	39	W	4	o	10111	0	41	+5	SW	5	-	r	4	10	41	36	3000 " W.N.W. 12. "				
Færder (Tromsøfjord) ...	10154	39	SW	5	r	10170	+2	41	+7	WSW	4	-	o	4	2	41	34	2000 " W.N.W. 9. "				
The Scaw (Shagen) ...	10210	39	WSW	4	o	10237	+2	39	+2	WSW	3	-	m	3	-	41	36	1,000 " W.N.W. 11. "				
Blaavands Huk ...	10210	39	WSW	4	o	10237	+2	39	+2	WSW	3	-	m	3	-	41	36	Surface. W.S.W. 2. "				
Haparanda ...	10051	30	SW	4	b	10050	-3	28	-6	SSW	4	-	S	*	1	36	19	RAINFALL				
Hernösand ...	10080	34	SW	2	b	10039	0	27	-7	S	2	S	b	*	1	41	27	Equivalents of Millimetres				
Stockholm ...	10176	37	S	2	o	10122	0	34	+5	SW	4	-	o	*	-	43	34	in inches.				
Wisby ...	10249	36	SW	2	c	10121	0	37	+1	SW	6	-	o	*	-	41	36	mm.	Inches.	mm.	Inches.	
Karlstad ...	10131	36	SW	6	o	10126	+1	37	+7	SW	6	-	o	*	Trace	39	28					
The Helder ...	10297	45	SSW	3	bc	10310	+2	45	+5	S	2	*	o	3	-	48	40	1	0.04	26	1.02	
C. Gris Nez ...	10296	45	NW	3	bc	10303	*	40	+4	-	0	*	m	0	-	50	36	2	0.08	27	1.06	
La Hève ...	10307	48	NW	4	o	10323	+2	47	0	E	2	*	o	2	-	52	45	3	0.12	28	1.10	
Brest (St. Mathieu) ...	10246	48	W	3	o	10293	0	41	+2	NE	5	*	b	*	-	55	39	4	0.16	29	1.14	
Rochefort (Hed d'Aix) ...	10284	50	N	3	o	10267	0	41	+1	NE	1	*	o	2	1	52	37	5	0.20	30	1.18	
Biarritz ...	10245	46	SW	1	b	10332	+1	32	+2	-	0	-	b	*	-	54	28	6	0.24	31	1.22	
Paris ...	10301	41	ENE	5	bc	10320	*	34	+1	ENE	6	*	m	*	-	45	30	7	0.28	32	1.26	
Belfort ...	10273	43	N	3	o	10287	*	36	+1	NW	2	*	b	*	-	48	33	8	0.32	33	1.30	
Lyons ...	10197	47	-	0	c	10181	-1	60	+15	E	3	*	bc	3	3	60	45	9	0.35	34	1.34	
Nice ...	10242	48	NW	4	b	10215	+2	46	+3	NW	2	NE	o	*	-	54	43	10	0.39	35	1.38	
Perpignan ...	*	52	N	2	r	*	*	56	+5	E	2	*	o	3	2	57	46	11	0.43	36	1.42	
Sanguinaire ...	10313	52	NNE	5	b	10249	+2	45	+2	-	0	-	b	2	-	54	39	12	0.47	37	1.46	
Corunna (7 a.m.) ...	10219	50	NNE	3	b	10216	+1	39	+2	ESE	2	-	b	*	-	50	36	13	0.51	38	1.50	
Madrid (8 a.m.) ...	10213	54	NE	3	b	10186	*	47	+4	N	4	*	o	3	-	64	45	14	0.55	39	1.54	
Lisbon (7 a.m.) ...	*	*	*	*	*	10153	0	59	-2	E	5	-	b	5	-	66	57	15	0.59	40	1.58	
Gibraltar ...	10092	*	S	7	f	10079	+1	59	0	SSW	6	*	bc	4	6	64	57	16	0.63	41	1.61	
Malta (8 a.m.) ...	10224	59	E	2	bc	10230	0	54	-3	N	3	-	bc	3	-	63	54	17	0.67	42	1.65	
Azores (Horta, 8 a.m.) ...																						
Madeira (Funchal) ...																						
YESTERDAY'S REPORTS																						
29th, 8 P.M. G.M.T.																						
Venice ...	10148	54	NE	3	o	10179	0	52	-	-	0	*	m	1	4	*	*	18	0.75	44	1.73	
Turin ...	10113	52	N	4	r	10190	0	43	-2	-	0	*	o	*								





**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 1)

Fresh winds between West and South-West, backing later; some rain, fairer intervals; mild.

Light variable winds; fair to dull, some mist; normal temperature.

Fresh South-Westerly winds, backing later; some rain, fair intervals; normal temperature.

Light or moderate winds from between West and South, some freshening later; fair, some showers; mild.

Fresh winds between South-West and South; fair, less fine later; mild.

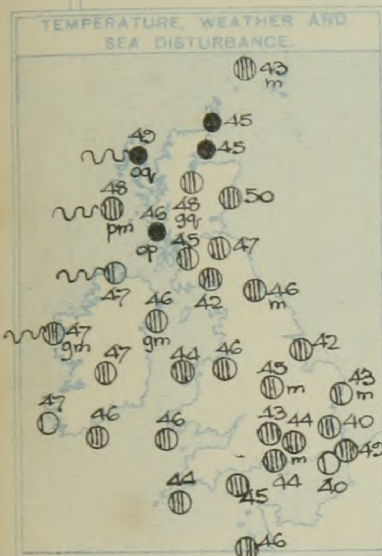
Light variable winds, becoming Southerly later and freshening a little; mild; slight sea.

**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

A depression over the Atlantic is likely to cause some backing of the wind over the British Isles during the coming 24 hours.



## EXPLANATION.

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

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

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

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

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

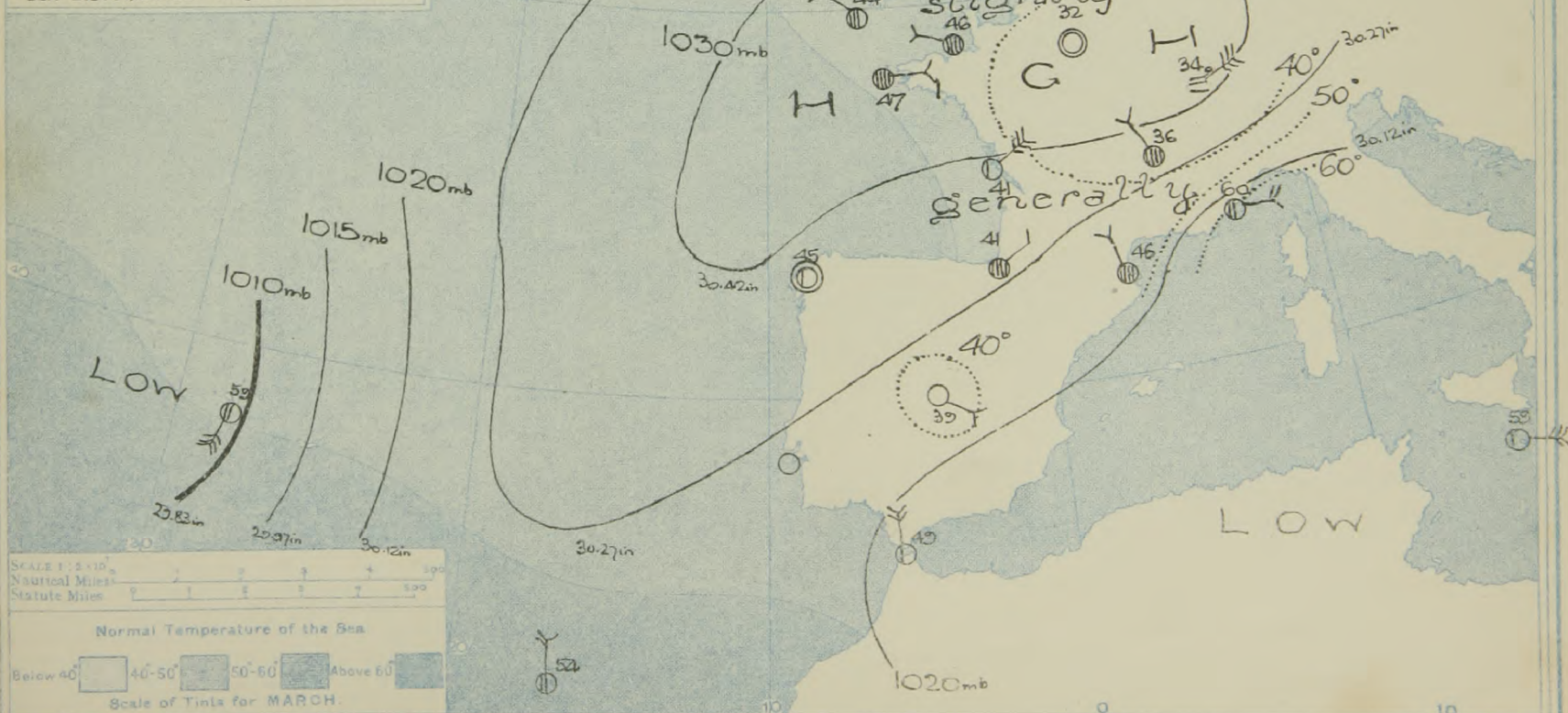
○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

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

Inches.  
31

30

29





# REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	29th...AT 9 P.M. LOCAL TIME.					30th...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.					
			Direc.	Force 0-12.		Milli-bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours.	Direc.	Force 0-12.								
Archangel ...	...	° F.	.	.	.	1017.6	+3	37	+3	S	3	.	o	?	-	.	36		
Uleaborg ...	1003.8	41	SSE	6	bc	1005.5	0	37	+5	SSE	4	.	c	?	.	.	.		
Helsingfors ...	1012.3	36	SSE	2	o	1013.9	+1	34	-3	SSW	2	.	b	?	-	.	.		
Hangö ...	1010.0	41	SSE	2	c	1011.9	+1	34	-2	SSW	4	.	o	?	-	.	.		
Riga ...	1014.4	39	SSE	3	b	1018.0	+3	36	.	-	0	.	f	?	-	.	.		
Petrograd ...	1017.1	37	SE	4	o	1017.7	+4	36	+2	S	3	-	o	.	-	41	34		
Moscow ...	1029.3	36	SSE	4	o	1007.4	0	32	-2	SSE	4	.	o	.	-	.	30		
Kiev ...	1019.7	48	SE	2	f	1022.0	+2	45	-3	ESE	3	.	f	.	-	.	46		
Kharkov ...	...	.	.	.	.	...	.	.	.	.	.	.	.	.	.	.	.		
Kishinev ...	1019.8	50	SE	2	b	1021.5	+2	39	-6	-	0	.	f	.	-	.	39		
Elisabetgrad ...	1019.5	52	E	2	r	1021.5	+3	45	-5	ESE	4	.	o	.	1	.	45		
Nicolaiev ...	1019.8	54	-	0	c	1020.4	.	45	-3	-	0	.	b	0	-	.	45		
Odessa ...	1019.3	50	SW	2	b	1020.7	+2	43	-7	NNW	2	.	f	?	-	.	41		

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. §	° F.	° F.			Hr.	England, E.	mm. §	° F.	° F.			Hr.
{ Oban ... ..	4	45	30	op	op	0.0	{ Lowestoft ... ..	-	49	33	bc	bc	3.8
{ Banff ... ..	-	51	38	bc	bc	1.4	{ Felixstowe ... ..	-	?	?	bc	bc	3.5
{ St. Andrews ... ..				*	*		{ Walton-on-Naze ... ..	-	45	35	o.c. bc	o.c. bc	1.2
							{ Southend-on-Sea ... ..						
Eng. N.E.							{ Margate ... ..	-	50	35	bc	bc	3.1
{ Harrogate ... ..	-	47	36	o	o.c.	0.0	{ Ramsgate ... ..	-	47	34	c	c	2.7
{ Skegness ... ..	-	49	33	o.bc	bc.o.	4.5	{ Hastings ... ..	1	48	36	bc. op	o.b. bc	1.9
							{ Eastbourne ... ..	6.3	50	38	o.b. bc	bc	2.4
Eng. N.W.							{ Seaford ... ..	-	49	41	bc.c	c	1.3
{ Morecambe ... ..							{ Brighton ... ..	-	49	35	o	o.b. bc	1.7
{ Blackpool ... ..							{ Worthing ... ..	-	51	34	bc	bc.c	2.8
{ Southport ... ..	-	47	39	o.c	c.o	0.2	{ Littlehampton ... ..	-	47	44	b	o	2.7
							{ Bognor ... ..	-	48	41	bc	bc	3.2
Midlands							{ Southsea ... ..						
{ Buxton ... ..							{ Bournemouth ... ..	1	38	52	c	c	1.6
{ Leamington Spa ... ..	-	51	30	c.bc	bc.c	3.4							
{ Malvern ... ..													
{ Ross-on-Wye ... ..	-	52	25	x.cm	bc	1.7							
							England, S.W.						
Wales.							{ Weymouth... ..	-	55	38	c.b. bc	bc.c.o	2.0
{ Rhyl ... ..	-	51	38	bc.c	c.o	0.6	{ Torquay ... ..	1	51	38	c	c.o	2.1
{ Colwyn Bay ... ..	-	51	41	bc	bc	1.1	{ Paignton ... ..	1	53	36	bc	bc	2.6
{ Llandudno ... ..							{ Penzance ... ..	0.2	54	42	bc	c. bc	8.5
{ Aberystwyth ... ..	-	45	40	o.c	c.o	0.2	{ Newquay ... ..	*	50	43	b	b	9.2
{ Tenby ... ..	3	50	41	bc	bc.c	0.4	{ Ilfracombe ... ..	1	50	42	bc	bc.c.o	2.6
							{ Weston-super-Mare ... ..	3	50	39	bc.b	b. bc.c	3.5

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
%	%	Hr.	° F.	° F.	° F.	mm. §				
Greenwich (Royal Obsy.) ...	65	80	1.0	54	38	32	—	c	o. bc	bc. o.
City (Bunhill Row) ...	*	*	0.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	82	0.6	52	41	34	—	c	bc	om
Camden Sq. (Brit. Rainfall)	62	79	0.3	54	41	33	Trace	o	o	*
Hampstead (Reservoir) ...	*	82	0.4	49	40	34	—	b	c	o
Richmond Park ...	*	*	*	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)	*	*	0.6	Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				52.3 Joules		8.0 Milliwatts.		50 Milliwatts.		
S. Kensington (Roof of M.O.)	61	80	0.4							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL. mm. §	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day. Hr.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
		Max.	Min.		After- noon.	
Dublin to 4 p.m.	...	...	...	...	...	...
Darwen to 9 p.m.	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...
Teignmouth to 9 "	...	...	...	...	...	...
Plymouth "	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	...	52	37	25	b.bc.c.o	o.c.o

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

Date March 31 <sup>st</sup> April 1 <sup>st</sup> 1916.	Sunrise		Noon		Sunset	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.32	11.57	6.32	12.16	6.34	12.16
Greenwich ...	5.30	11.57	6.32	12.16	6.34	12.16
Wick ...	5.40	12.16	6.38	12.45	6.40	12.45
Valencia ...	5.46	12.16	6.48	12.45	6.50	12.45

## NOTES ON YESTERDAY'S WEATHER.

The day was cloudy, but little precipitation was  
measured except in the North of Scotland.  
Temperature rose to about 50°

NOTE.—The information relating to weather is indicated by the following letters—b, blue sky; bc, sky half clouded;  
c, sky three parts clouded; d, drizzling rain; e, wet air, without rain falling; f, fog; g, gloom; h, hail;  
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, hard 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 1s per annum, for postage and wrappers.  
Single copies 1d. at M.O. and at the bookstalls at certain Railway  
Termini in London.



16.

Temp.

W. Max.

36

35

34

33

32

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# ADDITIONS AND CORRECTIONS

## TO THE

# DAILY WEATHER REPORT.

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MARCH, 1916.

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



# ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M. G.M.T.										PAST 24 HOURS.					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 8 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.	
								F.	F.								F.	F.				
1	Sanguinaire	1000.8	55	SE	4	r	1001.1	0	53	-	SW	5	*	o	4	7	64	46				
	Corunna	998.6	45	WNW	3	b	1004.3	+2	36	+5	NW	1	-	r	4	5	50	41				
	Madrid	1000.1	48	WNW	3	b	1004.6	+4	50	0	NNW	3	-	o	6	3	45	34				
	Lisbon						1015.0	+1	59	+5	S	3	-	o	2	21	63	54				
2	Horta	1003.3	30	SW	2	o	996.3	*	20	-2	SE	4	-	o	2	31	31	38				
	Visby		55	W	4	o	*	*	45	-8	E	4	-	o	3	9	59	41				
	Sanguinaire						1010.1	+2	52	+2	W	4	-	o	1	54	46					
	Lisbon	1012.2	49	W	4	b	1003.7	0	36	-1	W	1	-	bc	*	Trace	46	36				
3	Madrid	1012.3	46	NW	4	bc	1011.3	+2	53	+1	WNW	4	-	c	5	1	55	47				
	Lisbon	1009.9	48	WNW	3	bc	1020.2	+4	57	-2	NNW	3	-	c	5	1	64	55				
	Horta						1006.4	0	-27	+2	-	0	-	b	*	*	-27	-36				
4	Spitzbergen	1007.1	-23	SE	2	b	1006.1	0	27	+8	SW	6	-	o	3	*	27	16				
	Vardø	1003.4	21	SW	5	s	1000.6	+1	25	+2	E	4	-	o	2	*	25	23				
	Bodø	999.0	25	E	4	o	1003.1	0	30	-2	-	0	-	c	3	22	36	28				
	Christiansund	1001.3	34	-	0	o	1001.3	+3	30	+2	NNE	4	-	c	1	*	30	25				
	Stradsnes	997.7	32	ENE	2	b	1002.5	+3	30	0	NE	3	-	c	1	*	32	30				
	Faerder	997.3	32	NIE	2	s	1008.4	+2	19	+3	S	4	-	s	*	1	21	16				
	Haparanda	1007.3	47	S	2	s	1005.9	0	27	+4	N	2	-	s	*	2	27	23				
	Hernösand	1004.2	26	ENE	2	o	1003.5	+2	32	+2	ESE	2	-	s	*	2	32	20				
	Stockholm	1000.7	30	E	2	o	1002.3	+3	?	?	SE	?	-	?	1	1	34	28				
	Wisby	999.1	32	SE	2	s	1004.7	+3	28	-2	-	0	-	o	*	4	34	25				
	Karlstad	999.5	30	E	2	s	*	*	47	-1	W	5	-	r	5	4	59	44				
	Sanguinaire		54	?	4	o	1011.5	+1	45	-3	SSW	1	-	o	5	1	50	43				
	Corunna	1007.2	48	NNE	6	b	1009.9	+3	36	0	WNW	6	-	bc	*	-	48	32				
	Madrid	1000.4	46	NW	5	e	1011.3	-1	50	-3	W	2	-	o	5	4	55	50				
	Lisbon	1011.9	54	WNW	4	o	1024.0	+2	54	-3	-	0	-	c	1	1	63	52				
6	Horta						1024.3	+1	21	-7	E	4	-	b	2	-	28	18				
	Bodø	1020.7	23	E	2	b	1020.8	0	25	0	NNE	2	-	b	3	-	32	25				
	Christiansund	1012.7	28	-	0	o	1011.8	+4	32	+5	ENE	6	-	c	2	-	36	25				
	Stradsnes	1006.9	32	N	3	c	1014.3	+4	23	-5	NNE	6	-	s	3	?	30	23				
	Faerder	1005.5	30	NNE	6	s	1011.4	+3	30	-2	E	3	-	o	3	2	34	30				
	The Seaw	1003.0	32	-	0	m	1006.6	+3	32	-4	SSE	4	-	e	3	Trace	27	27				
	Dilevands Huk	1004.7	32	NNW	1	bc	1003.1	0	45	0	ENE	5	-	o	5	-	53	44				
	Lisbon	1011.0	46	NNW	3	b	1023.3	+1	60	+1	N	3	-	bc	2	-	68	55				
	Horta						1009.7	-6	59	+5	NW	4	-	r	4	2	63	54				
7	Funchal	1019.9	61	N	3	c	1034.9	+2	-9	-9	N	2	-	b	4	-	16	-11				
	Haparanda	1031.7	7	N	2	b	1032.6	0	9	-7	N	2	-	b	*	1	16	5				
	Hernösand	1028.2	16	NNE	4	o	1028.0	+2	16	-14	NE	2	-	b	*	-	30	14				
	Stockholm	1023.8	27	ENE	4	o	1024.2	+3	27	-3	NE	2	-	o	*	-	32	25				
	Wisby	1020.0	27	NE	2	o	1028.3	+1	23	0	N	2	-	o	*	-	28	18				
	Karlstad	1023.1	27	E	2	o	1007.1	-1	37	+5	N	2	-	b	*	-	46	25				
	Madrid	1005.4	45	N	3	b	1003.8	+2	47	+2	N	4	-	b	5	-	54	40				
	Lisbon	1006.6	48	N	5	b	1019.8	-2	59	-1	S	4	-	o	3	-	66	57				
8	Horta						1013.1	+3	48	+1	NW	2	-	o	5	-	54	45				
	Lisbon	1010.7	47	WNW	4	b	1019.0	0	54	-1	N	4	-	bc	3	-	63	54				
9	Funchal	1016.7	59	N	4	c	1006.1	-1	57	+9	SW	6	-	o	6	19	57	48				
	Lisbon	1011.5	47	SSE	3	o	1007.4	+4	50	-4	NNW	5	-	bc	3	1	61	45				
	Horta						1014.0	-2	59	+5	W	3	-	r	5	1	63	54				
10	Sanguinaire	*	48	NW	6	m	*	*	49	+3	E	3	-	bc	5	-	50	41				
	Horta						1013.5	+2	54	+4	NNW	5	-	c	4	3	55	50				
11	Haparanda	1020.9	10	E	2	b	1032.4	+2	-4	-20	N	2	-	c	*	-	19	-6				
	Hernösand	1025.1	18	NE	4	o	1027.3	0	14	-4	NNE	4	-	b	*	1	19	12				
	Stockholm	1019.3	23	ENE	2	o	1025.4	0	21	-6	NE	2	-	s	*	Trace	27	21				
	Wisby	1015.3	30	ENE	2	o	1016.4	0	28	-2	ENE	4	-	o	*	-	32	27				
	Karlstad	1014.3	25	ENE	2	o	1021.9	0	19	0	N	2	-	s	*	-	27	14				
	Lisbon	986.3	52	WSW	6	o	985.7	-1	94	0	SSW	4	-	bc	7	6	58	50				
	Horta						1015.3	-5	53	-1	-	0	-	o	2	2	59	52				
12	Vardø	1028.6	12	SW	5	b	1026.9	*	32	+13	SW	6	-	o	3	1	32	10				
	Lisbon	985.1	52	W	4	o	990.0	*	51	-3	W	3	-	o	6	2	55	47				
13	Lisbon	997.2	49	WSW	3	bc	999.8	+4	50	-1	SW	1	-	o	7	4	58	46				
	Horta						1006.6	-2	52	0	NNW	3	-	c	2	2	59	50				
14	Haparanda	1024.2	21	N	2	o	1023.3	0	19	+3	N	2	-	o	*	-	21	16				



# REPORTS FOR MARCH, 1916.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		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.		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.	
20	Silly		°F.				1001.3	+4	F.	°F.	SSE	3		bc	4	2	F.	F.			cr. bc	Hours. 1.4
	Haparanda	1017.7	25	N	2	o	1024.0	+5	48	-7	N	6		b	4	-	54	47				
	Hernösand	1020.2	32	-	0	bc	1021.6	+2	30	+2	NE	4		o	4	-	37	28				
	Stockholm	1022.6	32	SSW	2	o	1017.2	0	32	0	-	0		o	4	-	36	30				
	Wibby	1024.3	32	WNW	2	o	1019.8	-3	32	0	W	2		o	2	Trace	46	30				
	Karlstad	1023.7	34	W	2	o	1020.3	0	32	+2	-	0		s	4	-	34	28				
	Belfort	1010.6	57	E	6	c	1009.2	+	51	+6	W	2	+	o	4	-	63	47				
	Nice	1015.4	50	E	2	c	1010.9	-3	51	+5	SE	5	+	o	6	-	61	46				
	Lisbon	1001.7	55	SW	5	bc	1002.4	+2	55	+2	WSW	5	+	o	5	+	57	52				
	Horta						1013.9	-1	53	0	-	0	+	o	2	-	61	50				
21	Silly	1001.0	50	-	0	b	1000.6	-1	45	-3	NNW	5	N	o	4	-	53	44	b bc	bc b	cm. om	10.7
	Haparanda	1027.5	10	N	2	b	1030.6	+3	-9	-27	N	2	-	b	4	-	19	-11				
	Hernösand	1023.8	18	NE	4	bc.	1023.4	0	10	-20	NE	4	-	b	4	Trace	30	9				
	Stockholm	1017.6	32	E	2	o	1014.3	0	25	-7	NE	4	-	s	4	-	37	25				
	Wibby	1015.1	32	W	2	s	1009.2	-3	32	0	NE	2	-	s	4	-	34	28				
	Karlstad	1015.8	?	-	0	?	1014.6	-1	23	-9	ENE	4	-	bc	4	-	37	14				
	Sanguinaire	*	59	N	3	o	*	*	54	-2	W	4	+	o	3	3	61	48				
	Corunna	1003.0	54	N	2	bc.	1007.7	+2	48	-2	WSW	4	-	c	3	7	54	48				
	Lisbon	1008.8	53	WNW	4	b	1012.0	+3	54	-1	SW	4	-	o	5	0.4	58	50				
	Malta						1005.5	-3	59	+2	SE	5	-	b	4	-	64	57				
	Horta						1015.1	+1	55	+2	WSW	3	+	o	2	-	61	53				
22	Silly	999.9	43	NW	4	op	999.4	+1	42	-3	NW	4	NE	c	3	5	48	40	omp	op	c	0.0
	Wibby	1007.3	28	NE	6	o	1002.6	+	25	-7	ENE	6	-	s	4	-	7	23				
	Corunna	1001.7	55	NW	5	b	1004.6	-2	48	0	SSW	4	-	o	2	7	65	48				
	Lisbon	1011.5	55	WNW	4	bc.	1009.0	-1	52	-2	SW	1	-	o	5	Trace	59	50				
	Horta	*	*	*	*	*	1016.6	0	55	0	WNW	3	+	c	2	-	63	55				
23	Silly	1001.9	42	E	4	o	1000.9	0	39	-3	ENE	3	NE	o	4	0.4	44	38	c o	omp	op	0.5
	Haparanda	1015.4	-2	WSW	2	b	1010.0	-1	-13	+6	NNW	2	-	b	4	-	9	-19				
	Hernösand	1011.3	5	NE	4	b	1008.0	-1	10	+5	NE	2	-	o	4	-	10	-11				
	Stockholm	1006.4	9	N	4	b	1005.7	+1	1	-9	N	2	-	b	4	-	18	-14				
	Wibby	1002.6	21	NNE	8	s	1004.6	+1	18	-7	N	4	-	bc	4	-	27	16				
	Karlstad	1007.5	21	-	0	bc.	1007.8	0	12	0	NNE	2	-	c	4	-	25	7				
	Sanguinaire	*	55	W	4	m	*	*	54	+1	SW	4	+	m	4	-	64	48				
	Lisbon	1008.3	54	WNW	5	o	1010.4	+2	55	+3	WSW	4	+	bc	5	-	58	50				
	Horta						1018.3	0	52	-3	-	0	+	b	2	-	64	52				
24	Silly	999.7	39	NNE	3	c	1000.0	+1	39	0	NNW	4	N	c	4	1	43	34	o c	c	cqph	4.4
	Spitsbergen	1008.6	-19	S	2	b	1016.0	+3	-9	+2	ESE	7	+	b	4	0	-9	-27				
	Vardö	1007.0	16	SW	2	b	1008.8	+1	14	-4	SW	5	-	b	2	0	18	0				
	Lisbon	1008.6	53	WSW	5	bc.	1009.7	+2	55	0	WSW	5	-	c	5	1	58	51				
25	Silly	1005.2	43	WNW	5	c	1005.9	-1	43	+4	W	4	W	bc	4	Trace	46	37	c bc	cq	bcnp	9.7
	Lisbon	1012.4	52	W	3	b	1013.1	+2	55	0	-	0	+	c	4	-	57	50				
	Horta	*					1012.1	+2	54	+2	NNE	5	+	bc	3	-	57	52				
26	Castlebay						999.2	+1	39	+2	W	7	-	oqhp	6	3	38	29			s. b. hp	3.0
	Silly	999.4	47	WSW	6	cqph	1000.0	+1	40	-3	W	6	W	c	6	2	51	38	bcq	cq	cq	7.5
	Lisbon	1014.6	52	N	3	b	1017.7	+7	52	-3	NNE	1	-	b	4	-	61	46				
27	Castlebay	991.6	39	W	5	b	994.5	+3	39	0	NW	4	NW	bc	4	2	40	34	chp	chp. b	bc	1.4
	Silly	1001.4	43	W	7	cqph	1000.9	-2	39	-1	NW	1	W	o	6	4	47	35	cqphs	cqph.	cqphs	8.4
28	Castlebay	997.5	37	NNW	4	c	1004.1	+5	35	-4	NE	4	NE	bc	4	-	43	33	bc	bc	c. bc	10.0
	Pembroke						989.8	+3	38	-3	NNE	5	N	cq	5	13	43	32			q. s	0.0
	Silly	997.2	37	NE	7	omv	992.3	+6	57	-2	NW	4	N	cp	6	41	42	33	op. omv	oms	omv	0.0
	Jersey						984.9	*	42	0	SW	8	SW	oqhp	6	6	48	40			cq	0.0
	Portland Bill						975.8	+11	37	-5	NW	6	NW	c	7	16	43	37			o. c	0.0
	Nottingham	994.6	42	E	2	o	985.5	+	34	-3	NE	7	NE	s	7	5	46	32	c o	o c	o	3.7
	Haparanda	996.3	32	SSE	4	o	988.8	+1	28	0	S	6	-	s	4	9	36	28				
	Hernösand	985.3	32	SE	4	o	991.5	+3	30	-2	S	4	-	c	4	-	36	25				
	Stockholm	994.4	34	S	2	o	999.3	+5	36	0	S	6	-	b	4	Trace	39	30				
	Wibby	997.1	34	SE	4	bc	1003.7	+5	36	-1	SW	4	W	bc	4	1	39	32				
	Karlstad	991.7	32	SW	2	bc	994.9	0	34	0	S	4	-	o	4	3	37	32				
	Nice	1011.9	51	SE	2	bc	1012.7	0	43	-9	-	0	-	r	3	4	54	43				
	Sanguinaire	*	56	S	4	bc	*	*	54	-1	SE	3	+	bc	4	6	59	48				
	Corunna	1005.0	57	WSW	7	o	1009.7	+5	46	-6</												



## CORRECTIONS.

[illegible]

LONDON OBSERVATIONS.

STATIONS.		HUMIDITY.		Sun- shine for Year- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Duration and Extreme Force in British Islands			
		3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Date.	ADDITIONS.	Date.	CORRECTIONS.
					Max.	Min.									
		24 HOURS ENDED 9 A.M. TO-DAY.													
		%	%	Hc.	F.	F	F.	mm. §				28	<u>Jersey</u> 27th 8 p.m. - 28th 7 a.m. SW 8 During night S - SW 9. <u>Nottingham.</u> 28th 7 a.m. NE 8. <u>Scilly.</u> 27th 7 p.m. - 28th 3 a.m. NNW 8 Ex. NNW 10 9 p.m. - 10 p.m.	26	<u>Stornoway.</u> 25th 1 p.m. & 6 p.m. S. 8. <u>Castlebay.</u> 25th 11 a.m. - 7 p.m. Sec. <u>Dunfermline.</u> 26th 1 a.m. - 11 a.m. SW 8. <u>Portland Bill.</u> 27th 5 p.m. - 28th 2 a.m. E 8.
1.	Richmond Park	.	.	2.4.	.	.	.	.	.	.	.	29	<u>Clacton.</u> 28th 7 p.m. - 10 p.m. N 8. Ex. N 9 at 8 p.m. <u>Nottingham.</u> 28th 2 p.m. NE 10.		
2.	Richmond Park	.	.	2.9.	.	.	.	.	.	.	.				
4.	Richmond Park.	.	.	0.0.	.	.	.	.	.	.	.				
7.	Westminster.	.	.	3.0.	.	.	.	.	.	.	.				
9.	Richmond Park.	.	.	0.7.	.	.	.	.	.	.	.				
10.	Richmond Park.	.	.	0.1.	.	.	.	.	.	.	.				
13.	Westminster	.	.	0.2.	.	.	.	.	.	.	.				
15.	Richmond Park	.	.	2.9.	.	.	.	.	.	.	.				
17.	Westminster	.	.	0.0.	.	.	.	.	.	.	.				
21.	Richmond Park	.	.	0.0.	.	.	.	.	.	.	.				
22.	Westminster	.	.	0.0.	.	.	.	.	.	.	.				
	Richmond Park.	.	.	0.0.	.	.	.	.	.	.	.				
23.	Richmond Park	.	.	0.0.	.	.	.	.	.	.	.				
28.	Richmond Park	.	.	5.0.	.	.	.	.	.	.	.				
29.	Richmond Park.	.	.	0.0.	.	.	.	.	.	.	.				
31.	Richmond Park	.	.	0.6.	.	.	.	.	.	.	.				