

METEOROLOGICAL OFFICE,  
LONDON.

# DAILY WEATHER REPORTS

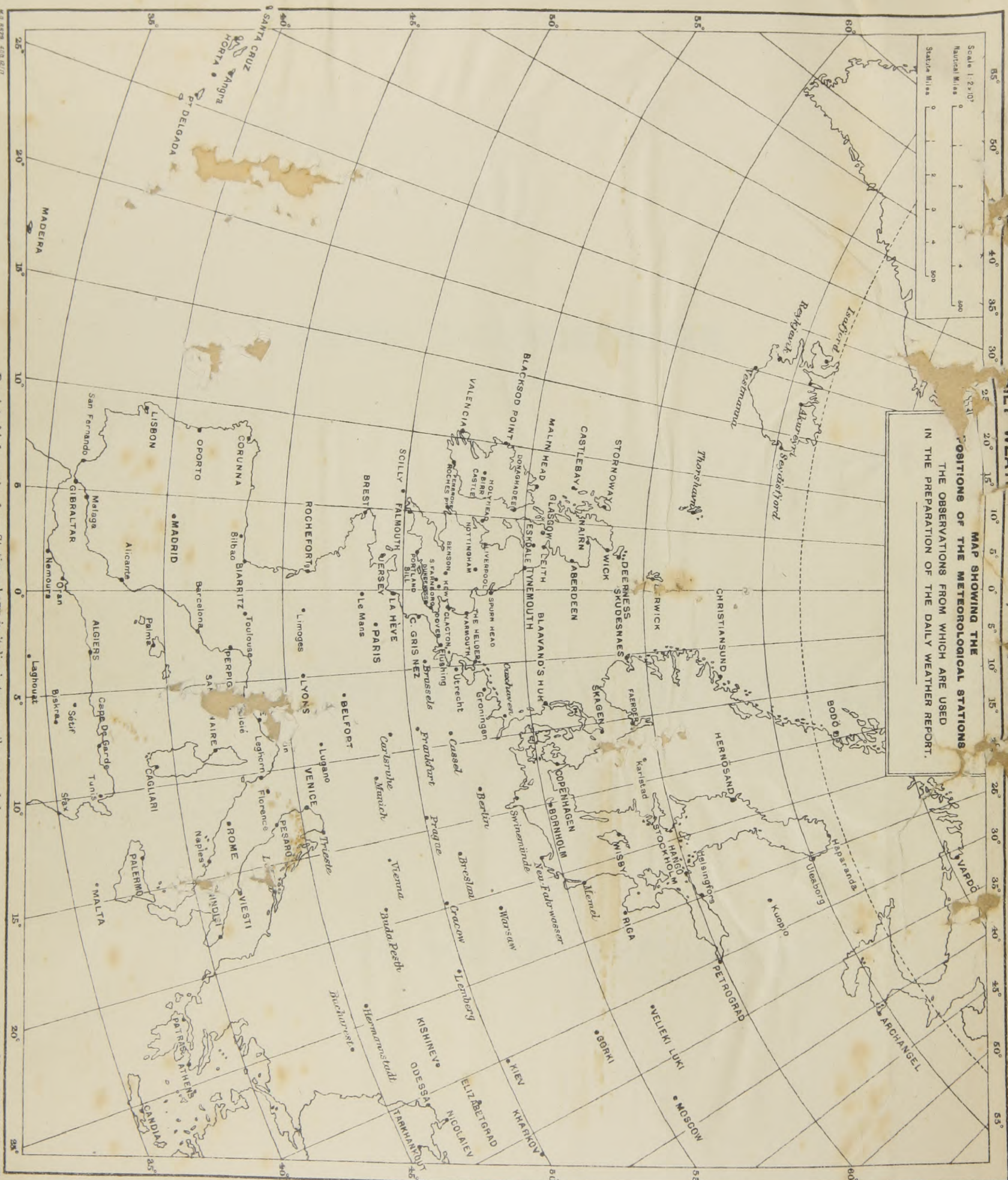
1<sup>ST</sup> JANUARY TO 30<sup>TH</sup> JUNE, 1917.



## 1917.

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.)

		PRESSURE. 1906-1915.  7 a.m. Observations (reduced to M.S. Level).	AIR TEMPERATURE.						RAINFALL. 1881-1915.			BRIGHT SUNSHINE. 1881-1915.				
STATIONS.			Means of			Absolute Extremes.				Total Fall.	Daily Mean.	Per Centage of Possible Duration.				
			1906-1915.  Dry Bulb 7 a.m.	1881-1915.		1881-1915.										
				Daily Maximum.	Daily Minimum.	Maximum.		Minimum.								
						Temp.	Year.	Temp.	Year.							
Lerwick	1007.0	39.6	42.6	35.6	52	1898	16	1910	27	108	4.26	—				
Stornoway	1008.3	40.3	43.7	34.9	55	1890	11	1881	25	131	5.17	0.90				
Castlebay (Barra Isd.)	[1009.0]§	[43.0]§	[45.6]§	[39.3]§	[52]§	[1908, 09, 10, 14]§	[28]§	[1910]§	[24]§	[80]§	[3.16]§	[0.97]§				
Esksdalemuir	[1012.7]¶	[34.8]¶	[39.6]¶	[30.4]¶	[51]¶	[1910, 11, 15]¶	[3]¶	[1910]¶	[21]¶	[114]¶	[4.48]¶	[1.03]¶				
Malin Head	1010.3	41.1	44.4	37.4	55	1898	23	1894	22	66	2.61	—				
Blacksod Point	1011.9	43.7	46.5	38.8	56	1890	26	1891, 94	25	129	5.09	—				
Valencia	1014.9	44.4	48.5	40.2	55	1882, 3, 4, 8, 9, 08, 1901	20	1894	24	139	5.49	1.55				
Roche's Point	1016.0	43.2	47.5	39.4	57	1889	20	1894	21	105	4.15	—				
Birr Castle	1014.3	39.3	45.2	34.3	57	1898	6	1881, 94	20	72	2.83	1.61				
Donaghadee	1013.5	40.5	44.8	36.3	58	1898	14	1881	20	64	2.53	—				
Liverpool (Observatory)	1015.4	38.7	43.3	35.3	58	1898	9	1881	17	54	2.12	[1.94]§				
Holyhead	1014.8	42.3	45.2	38.4	54	1899, 1915	20	1894	19	74	2.91	[1.42]§				
Pembroke (St. Ann's Hd.)	1015.5	42.9	45.9	39.4	53	1899, 1907, 14	19	1881, 94, 1907	20	84	3.31	1.71				
Seilly (St. Mary's)	1017.3	45.6	49.1	42.3	57	1899	25	1894	21	76	2.98	1.90				
Falmouth	1018.0	43.1	46.9	39.9	55	1888, 90, 96	20	1894	20	107	4.21	1.87				
Jersey (St. Aubin's)	1019.0	42.8	46.6	38.6	57	1899	12	1891	20	75	2.94	2.19				
Portland Bill	1016.5	43.0	45.5	38.7	[52]†	[1901, 03, 05, 11, 12, 13, 15]	[23]†	[1907]†	16	57	2.26	—				
Dunegness	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]§	[2.10]§	[2.5]§				
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	[1.32]‡				
Aberdeen	1011.1	37.1	42.3	31.4	59	1898	4	1881	18	55	2.18	1.55				
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]§				
Yarmouth	1015.9	37.8	41.8	33.7	57	1899	10	1881	18	44	1.74	[1.81]§				
Clacton-on-Sea	1016.8	37.7	41.8	33.9	[55]†	[1914]†	[18]†	[1915]†	14	34	1.34	1.87				
Nottingham	1015.7	37.1	42.6	32.6	56	1882, 88, 98, 99	2	1881	19	46	1.81	1.10				
LONDON (Kew Obsy.)	1017.5	38.3	43.1	34.6	56	1908, 10, 14	9	1881	16	45	1.76	1.39				
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				
Castlebay (Barra Isd.)	[1005.0]§	[42.7]§	[45.8]§	[38.0]§	[52]§	[1914]§	[27]§	[1912]§	[22]§	[91]§	[3.58]§	[1.76]§				
Esksdalemuir	[1007.6]¶	[35.4]¶	[41.9]¶	[31.0]¶	[51]¶	[1912]¶	[10]¶	[1912]¶	[22]¶	[183]¶	[7.19]¶	[1.60]¶				
Malin Head	1005.8	40.7	44.8	37.1	59	1891	20	1895	19	61	2.47	—				
Blacksod Point	1008.0	42.9	46.7	38.1	59	1891	23	1891	22	103	4.06	—				
Valencia	1010.6	43.5	48.8	39.7	58	1891	22	1895	21	132	5.20	2.48				
Roche's Point	1011.4	42.5	47.8	39.1	56	1889, 1896	25	1895, 1900, 02, 12	18	94	3.70	—				
Birr Castle	1007.7	39.1	46.7	34.4	60	1912	6	1895	17	58	2.29	2.41				
Donaghadee	1009.4	40.0	45.6	36.1	57	1897, 1903, 11	16	1895	18	58	2.30	—				
Liverpool (Observatory)	1010.7	38.7	44.2	35.6	59	1885, 1898	12	1895	16	42	1.68	[2.66]§				
Holyhead	1010.2	41.9	45.4	38.0	59	1891	17	1895	17	62	2.43	[2.50]§				
Pembroke (St. Ann's Hd.)	1011.3	42.2	45.6	38.9	56	1903	23	1895	17	66	2.66	2.70				
Seilly (St. Mary's)	1012.8	45.1	48.9	41.7	57	1896, 1899	27	1895	17	65	2.37	3.01				
Falmouth	1013.8	42.6	47.1	39.6	58	1899	22	1895	17	94	3.70	2.98				
Jersey (St. Aubin's)	1015.2	42.4	47.3	38.7	62	1891	18	1895	17	62	2.44	3.30				
Portland Bill	1012.5	42.4	45.6	38.5	[54]†	[1905]†	[24]†	—	13	49	1.93	—				
Dunegness	1012.9	39.5	44.5	35.2	57	1897	11	1895	17	41	1.60	—				
Dover	[1014.1]§	[39.4]§	[45.6]§	[35.0]§	[56]§	[1913]§	[17]§	[1912]§	[14]§	[47]§	[1.68]§	[3.16]§				
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]‡				
Aberdeen	1006.7	37.7	43.2	33.4	64	1897	6	1895	17	52	2.05	2.59				
Leith	1007.2	38.8	45.2	33.8	59	1882	12	1895, 1912	14	36	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	[2.79]§				
Yarmouth	1012.1	38.1	42.9	34.0	60	1912	15	1895	15	38	1.40	[2.84]§				
Clacton-on-Sea	1012.9	38.1	42.9	34.4	[58]†	[1903]†	[18]†	[1912]†	12	32	1.25	2.94				
Nottingham	1011.4	37.6	44.6	33.2	61	1899	2	1895	16	39	1.55	2.06				
LONDON (Kew Obsy.)	1013.5	38.5	45.0	35.1	62	1899	11	1895	13	39	1.54	2.13				
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	3.30				
Castlebay (Barra Isd.)	[1006.7]§	[41.7]§	[45.7]§	[38.5]§	[52]§	[1911]§	[27]§	[1915]§	[22]§	[77]§	[3.02]§	[1.87]§				
Esksdalemuir	[1007.2]¶	[35.2]¶	[44.2]¶	[31.9]¶	[55]¶	[1910, 1915]¶	[16]¶	[1913]¶	[21]¶	[133]¶	[5.24]¶	[3.10]¶				
Malin Head	1008.2	40.7	46.0	37.7	62	1894	25	1906	21	59	2.32	—				
Blacksod 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				
Roche's 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				
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]§				
Holyhead	1010.8	41.9	46.9	38.4	67	1894	27	1881	18	67	2.62	[4.05]§				
Pembroke (St. Ann's Hd.)	1011.7	41.9	46.7	39.0	58	1899	26	1888, 1909	17	66	2.58	4.19				
Seilly (St. Mary's)	1012.6	45.0	49.9	42.0	59	1893	30	1883, 90, 91	18	62	2.45	4.52				
Falmouth	1013.4	42.7	48.7	39.8	60	1914	24	1890	18	88	3.46	4.45				
Jersey (St. Aubin's)	1014.1	43.4	49.9	39.9	66	1893, 94, 1903	21	1890	18	64	2.51	4.74				
Portland Bill	1011.8	42.7	47.5	39.1	[59]†	[1900]†	[26]†	[1909]†	15	51	2.02	—				
Dunegness	1011.8	40.7	47.0	36.4	60	1903	12	1909	15	45	1.76	—				
Dover																

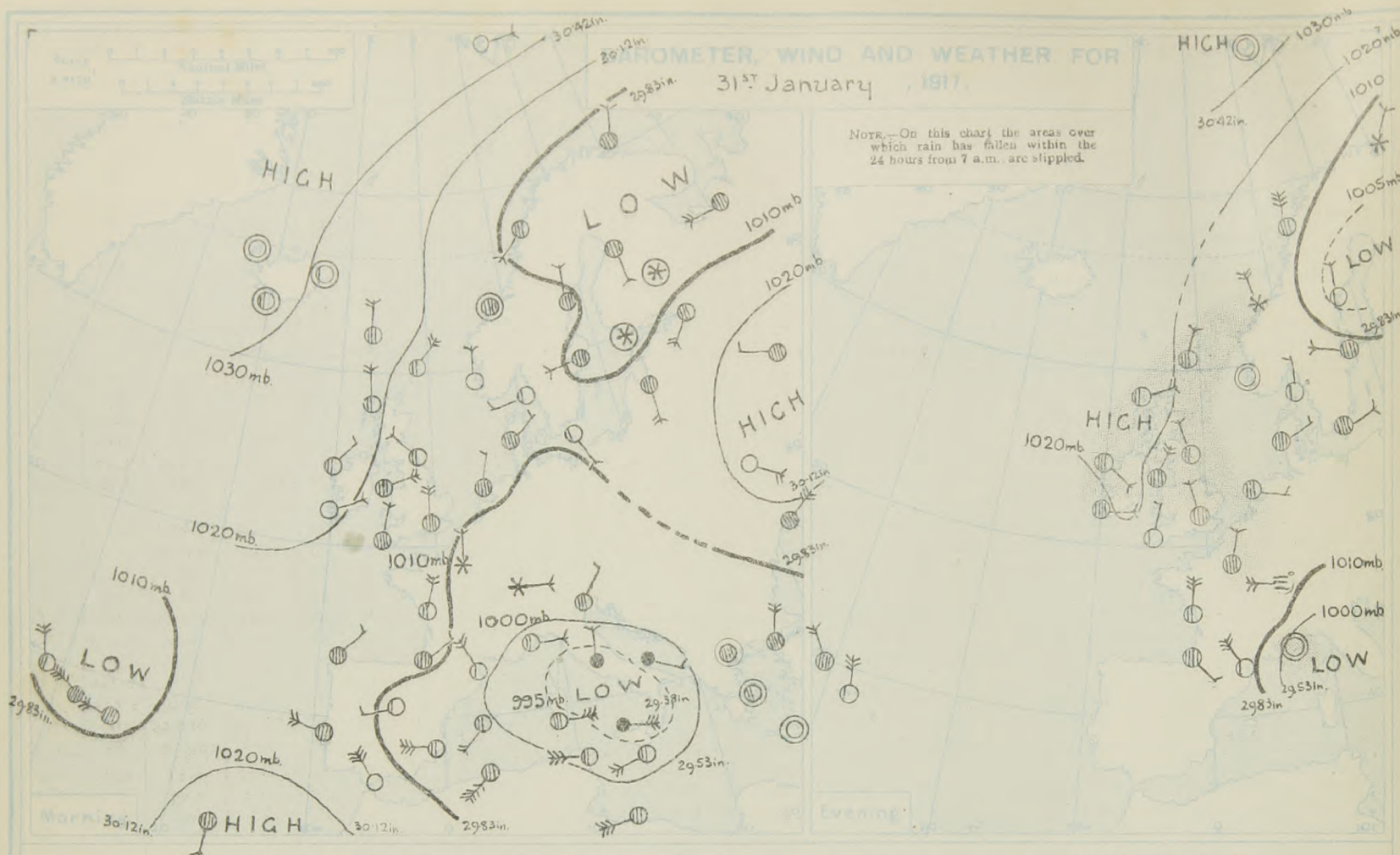
§ Results for 30 years, 1886-1915.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 32 Thursday 1st February

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.										Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.								
			Direc.	Force				Dry Bulb.	Change in 24 hours.	Direc.	Force					Max.	Min.	Morning.	Afternoon.	Night.						
Lerwick	1019.6	38	NNE	2	c	1016.2	-2	34	-5	NNW	2	N	c	2	-	41	34	bcqpc	c	bc.c	*					
Deerness (Orkney)	1020.0	39	NNE	4	c	1017.3	*	34	-4	WNW	3	-	cx	2	1	40	34	bcpc	c.bc.pc	cxh.xc	1.8					
Stornoway	1022.0	35	ENE	3	bcph	1019.6	-2	33	-1	N	2	-	bc	2	4	38	32	bcpr	bcph	bc	2.2					
Castlebay (Barraisd.)	1022.2	39	N	3	c	1020.3	-1	38	+1	N	2	-	o	2	Trace	42	36	bc.b	bc.ppc	c.b.o	5.5					
Glasgow	1019.7	35	NW	1	bc	1018.4	-1	35	+2	N	1	-	o	*	-	40	32	o.c.bc	o.bc	bc.c.o	1.0					
Eskdalemuir	1018.7	31	N	2	b	1018.2	0	24	-8	NW	1	-	b	*	0.2	34	22	o.c.bc	b.bc	bc.o.sc	5.7					
Malin Head	1020.1	38	NW	2	cv	1017.8	-2	37	-1	E	2	E	cm	2	0.2	42	30	bcv	cv	cm	0.3					
Blacksod Point	1020.3	33	SE	2	cm	1017.1	-3	32	0	ESE	1	E	cmg	2	4	36	30	cmgs	cms	bc.cmg	*					
Valencia	1019.9	36	E	2	o	1014.0	-2	36	+5	E	4	-	oz	*	-	40	29	bc	bc.c.o	bc	5.5					
Roche's Point	1020.5	35	N	1	o	1016.6	*	35	+2	NE	2	-	o	2	-	37	32	om	om	o	*					
Birr Castle	1021.0	32	W	1	o	1017.0	*	27	0	-	0	-	m	*	1	33	27	os	o	of	0.0					
Donaghadee	1018.7	38	NE	3	bcn	1016.7	0	37	-1	NE	3	NE	bcn	3	-	41	37	c	bc	bcn	*					
Liverpool (Bidston)	1017.8	35	NW	1	bc	1016.5	-1	30	0	N	1	-	o	1	-	36	30	o.bc	o.c	bcx	0.3					
Holyhead	1018.5	40	NE	4	o	1016.1	-1	36	+1	ENE	4	NE	c	3	Trace	40	29	c.bcps	o.c.o	bcxps	0.5					
Pembroke (St. Ann's)	1019.6	33	N	2	b	1016.1	-3	32	-2	NE	1	-	b	1	-	39	28	c.bc.b	b	o.c.bc.b	6.0					
Silly (St. Mary's)	1019.3	31	NNE	1	bcx	1015.6	-3	27	-4	NNE	1	-	c	*	-	37	25	o.cq	o.bc.c	bm.bcx	1.6					
Falmouth	1016.2	38	N	3	o	1015.0	*	37	+2	N	3	-	o	2	0.1	38	33	aspc	ogs.ps	o	1.5					
Jersey (St. Aubin)	1016.2	36	NNW	4	c	1015.6	0	30	-2	N	2	-	bc	3	-	38	30	c	c	bc.c	*					
Portland Bill	1016.2	36	NNW	4	c	1015.6	0	30	-2	N	2	-	bc	3	-	38	30	c	c	bc.c	*					
Dungeness	1014.2	31	NNW	1	o	1013.5	-1	32	+3	N	2	-	o	2	1	32	30	psc	o	os.cs.o	*					
Dover	1015.4	30	NW	1	c	1015.4	0	29	0	E	1	E	o	4	2	31	28	ops	o.cm	ops	0.0					
Wick	1019.6	40	NE	3	c	1017.8	-2	34	-1	N	1	-	o	3	0.4	41	31	psbc	bcx	c.cmg	*					
Nairn	1020.3	36	NW	1	bc	1018.6	*	32	-1	-	0	-	odg	1	2	38	30	eg	prsc	pc	0.3					
Aberdeen	1018.5	35	NNW	2	b	1017.8	-1	35	+3	WNW	3	-	o	2	0.4	40	31	c.b	c.b	bc.spo	3.4					
Leith	1018.4	37	NNW	2	c	1017.8	0	35	-1	ENE	1	-	o	2	0.2	38	34	c.bc.mc	c.bc.ue	c.bc.po	*					
Tynemouth	1015.8	35	NNW	2	cmg	1016.7	0	31	0	NNW	1	N	bm	3	5	38	30	bc.mps	bc.mps	cmgs	*					
Spurn Head	1014.3	34	N	3	bcpr	1015.2	0	33	+1	ENE	3	-	bc	4	1	37	30	cpq.s	cpq.sr	bc	0.2					
Yarmouth	1013.0	33	N	1	c	1014.4	+2	31	0	SSW	3	-	ops	3	-	31	30	omps.c	o.cj	ofps	0.0					
Clacton-on-Sea	1014.0	32	WNW	2	o	1014.9	0	30	+1	NNW	2	-	s	1	1	32	29	os.c	o.cj	og.c.os	0.0					
Nottingham	1015.9	36	NNW	3	o	1015.7	*	30	-1	N	2	N	b	*	0.1	38	29	o.cm	cm.o	o.c.bm	0.1					
Benson (Oxon.)	1015.9	33	NW	1	o	1014.8	-2	30	0	-	0	-	o	*	0.1	35	28	os	o	o	*					
St. Farnborough	1016.0	34	NNW	1	o	1014.7	-1	30	0	NW	2	-	om	*	0.4	35	29	c.o.so	o.so	om	0.0					
London (Kew Obs.)	1015.5	36	NNW	2	o	1014.9	-2	32	+1	NW	2	-	om	*	0.3	36	30	oms	oms.o	o.2m	0.0					
Spitsbergen	1031.3	-31	-	0	b	1030.4	0	-36	-21	SSE	3	*	bc	*	*	-15	-38									
Vardö	1007.9	5	NE	2	s	1010.7	+1	7	-2	NE	1	-	o	3	*	9	5									
Bodö	1011.9	19	N	6	c	1013.2	0	19	-9	N	2	-	c	2	2	28	16									
Christiansund	1014.4	34	WNW	1	c	1014.4	+1	30	-6	-	0	-	c	3	4	36	30									
Skudesnaes	1015.5	19	-	0	b	1013.0	-1	21	-2	-	0	-	b	1	-	30	19									
Færder (X'ania Fjord)	1014.4	25	-	0	b	1013.3	0	23	+4	NNW	1	-	o	0	-	23	19									
The Scaw (Skagen)	1015.3	23	N	1	b	1014.0	0	19	+1	-	0	-	b	0	-	28	16									
Blaavands Huk	1014.4	25	ENE	1	o	1015.0	0	27	+2	W	1	-	b	1	-	27	14									
Copenhagen	1013.9	25	E	2	o	1014.1	0	23	-5	-	0	-	m	*	-	28	18									
Bornholm	1012.6	23	ENE	2	o	1012.4	+1	25	+7	NNE	4	-	o	2	Trace	25	16									
The Helder	1014.1	27	ESE	1	c	1016.2	+1	23	-4	S	1	-	o	0	Trace	28	23									
C. Gris Nez	1013.3	32	N	2	o	1014.6	0	27	+5	E	4	*	o	3	1	32	22									
La Hève	?	26	NE	2	s	1014.4	*	28	+5	NNE	3	*	m	2	-	25	23									
Brest (St. Mathieu)																										
Rochefort (Ile d'Aix)	1015.5	34	N	5	bc	1017.0	0	39	+13	E	2	*	c	*	-	39	23									
Biarritz	1016.2	34	ESE	1	o	1014.1	-1	32	+4	ESE	2	*	bc	3	9	34	28									
Paris	1014.9	21	N	2	o	1015.4	-2	21	+2	ESE	1	-	o	*	Trace	25	12									
Belfort	1010.3	15	W	4	m	1016.8	*	14	+2	W	2	*	m	*	-	25	12									
Lyons	1013.7	14	NNW	2	b	1017.1	*	12	-2	NW	3	*	b	*	-	20	16									
Nice	997.9	32	-	0	s	1000.4	+5	30	-3	-	0	*	c	3	12	41	27									
Perpignan	1010.9	34	NW	5	b	1009.6	-3	32	-5	NW	6	-	b	*	-	41	28									
Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
Corunna																										
Madrid																										
Lisbon																										
Azores (Horta)	1012.4	*	NNW	5	b																					
Madeira																										
Gibraltar																										
Malta		*	*	*	*	1002.6	+2	50		NW	3	-	r	3	7	57	48									
Limassol		*	*	*	*	1013.1	+2	55		W	1	-	b	5	-	64	50									
Alexandria																										
Cairo (Helwan)																										
24 HOURS ENDED 9 h. TO-DAY.																										
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.				Rain fall	WEATHER.			SOUTH KENSINGTON.													
		15 h. Yester- day.	9 h. To- day.		Max.	Min.	Min. on Grass.	Morn- ing.		After- noon.	Night.															
GREENWICH (Royal Observatory)		85	84	0.0	35	21	29	1	OS	OS	0.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.														
CITY (Bunhill Row)		*	*	0.0	*	*	*	*	*	*	*															
WESTMINSTER (St. James's Park)		91	89	0.0	36	32	31	1	OS	oms	om	Total. Average Rate. Max. Rate.														
CAMDEN SQ. (British Rainfall)		90	87	0.0	35	31	28	1	OS	OS	*															
HAMPSTEAD (Reservoir)		*	92	0.0	33	29	22	1	OS	0.	cxS	Joules. Milliwaatts. Milliwaatts.														
S. KENSINGTON (Museum Grounds)		*	86		36	32	29	1	OS	OS	0.															
RICHMOND PARK		*	*		*	*	*	*	*	*	*	161 5.0 16.0														
Temperatures at Greenwich and Cam- den Square are from Glaisher screens.																										





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

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

0 } Light variable or Easterly winds; cloudy weather; cold.

1 } Moderate winds between North-East and South-East; cloudy, some snow showers; cold.

2 } Same as No. 0 to 2a.

3 } Moderate winds between North-East and South-East; fair at first, some precipitation later; cold.

4 } Moderate Easterly winds; moderate sea; fair, some showers.







## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING.			
	Barom.	Temp.	Wind.	Weather.	Barom.	Temp.	Wind.	Weather.	Rain-fall.	Temp.	Temp.	Temp.	Barom.	Temp.	Wind.	Weather.
	Milli-bars at M.S.L.	° F.	Dir.	Force 0-12.	Milli-bars at M.S.L.	Change in 3 hours.	Dir.	Force 0-12.	Milli-metres.	Max.	Min.	Min.	Milli-bars at M.S.L.	° F.	Dir.	Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1020.6	-17	NE	1	b.	1007.0	+2	-2	+11	N	3	0	-	*	-13
	Gorki ...	1023.3	-18	S	1	b.	1022.1	*	-2.3	-8	SSE	2	b.	-	*	-24
	Veliki Luki ...	1011.7	19	SSW	8	0	1007.8	-3	27	+20	-	0	S	-	*	3
	Hangö ...	1019.0	-2	S	2	b.	1015.3	-1	-2	-3	S	3	0	-	*	-4
	Riga ...	1017.5	0	SW	3	0	1014.7	-3	1	+12	SW	3	c	-	1	-8
	Petrograd ...	1020.6	-15	WNW	2	b.	1023.3	+1	-9	+6	WNW	1	0	-	*	-17
	Moscow ...	1021.8	-4	ENE	3	b.	1023.3	0	-9	-25	SE	3	b.	-	*	-11
	Kharkov ...															
	Kishinev ...															
	Elisabetgrad ...	1017.2	7	NNE	3	0	1021.0	0	-8	-13	ENE	4	b.	-	*	-8
MEDITERRANEAN.	Nicolaiev ...	1014.6	7	N	2	bc	1017.3	*	1	-15	NE	4	b.	-	*	-2
	Odessa ...	1013.9	9	E	5	b.	1016.3	+1	9	-9	ENE	5	0	-	*	7
	Tarkhankout ...															
	Soukhom ...															
	Venice ...	1003.9	28	-	0	b.	1001.3	*	25	+2	NE	1	c	-	32	23
	Pesaro ...	1003.6	40	SW	1	b.	1001.3	*	27	0	W	1	S	-	45	23
	Rome ...	997.0	41	SE	1	0	993.3	*	37	+1	N	2	r	-	48	36
	Viesti ...	1002.2	43	-	0	0	995.9	*	46	+2	SE	1	r	-	46	41
	Brindisi ...	997.9	50	NW	6	bc	995.1	*	50	+4	NW	4	0	-	52	46
	Cagliari ...	997.4	59	NE	5	r	995.4	*	52	+2	E	5	c	-	63	46
SWEDEN.	Palermo ...	999.3	52	E	4	0	990.3	*	50	0	ESE	4	r	-	59	45
	Tripoli ...						1001.3	*	63	+4	W	6	c	-	64	59
	Aigiers ...	1004.8	SS	WSW	8	c	1005.1	+1	32	-3	SW	8	c	-	7	63
	Hernösand ...	1004.2	30	-	0	c	1011.9	*	21	0	N	2	0	-	*	*
SWEDEN.	Stockholm ...	1010.9	28	WSW	4	0	1009.3	*	18	-3	WSW	2	0	-	*	*
	Wisby ...	1014.0	25	SSW	2	c	1011.5	*	27	-1	W	4	b.	-	*	*

## Hours of Observation G.M.T.

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

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.								STATIONS.									
Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine.	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine.			
Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.				
Scotland.	Oban	-	-	43	28	bc	b	5.0	England, E.	Lowestoft	2	-	34	30	0	0	0.0
	Banff	1	Trace	42	33	bc prs	bc c	2.0		Felixstowe	2	1	33	27	0	0	0.0
	Montrose	*	*							Walton-on-Naze	1	Trace	34	28	0	0	0.0
	Carnoustie	2	-	41	30	bc	bc x	3.7		Southend-on-Sea	1	Trace	34	28	0	0	0.0
	St. Andrews																
Eng. N.W.	Harrogate	Trace	Trace	35	27	o.c. bc	bc sp. c	2.8	England, S.E.	Margate	1	-	33	29	0	c	0.0
	Skegness	3	1	36	29	o.c. b	c	0.7		Ramsgate	2	-	31	27	0	0	0.0
Eng. N.W.	Morecambe	-	-	35	28	-	-	2.2	England, S.W.	Hastings	Trace	1	33	25	0	0	0.0
	Southport	Trace	-	36	26	o. c	o.c. bc. b	0.2		Eastbourne	*	*	33	26	s	s	0.0
Midlands.	Leamington Spa	-	-	40	29	x. bc	bc m	1.7	England, S.W.	Seaford	Trace	Trace	34	27	ops	ops	0.0
	Malvern	-	-							Brighton	Trace	Trace	34	29	ops	ops	0.0
	Ross-on-Wye	-	-							Worthing	Trace	Trace	35	30	o. bc	o	0.1
Wales.	Rhyl	-	-	37	23	c. ox	o.c	0.1	England, S.W.	Littlehampton	-	-	35	30	c. bc	c	1.7
	Colwyn Bay	-	-	37	29	c. bc	bc	0.0		Bognor	*	*	38	31	c. bc	c	1.7
	Llandudno	-	-	38	27	c	c	0.0		Bournemouth	-	-	38	31	c. bc	c	1.7
	Aberystwyth	-	-	36	27	o.c. b	bc. o	5.5		Weymouth	-	-	39	27	o.c	bc. bz	1.0
	Tenby	-	-							Torquay	-	-	38	30	0	o.c. bc	2.5

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

Station.	1 <sup>st</sup> Feb. 1917.		
	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.38	G.M.T. 12.7	G.M.T. 4.26
Greenwich ...	7.36	12.7	4.28
Wick ...	7.34	12.14	4.49
Valencia ...	8.25	12.26	4.31

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose somewhat during the day over most of the country. Some sunshine was measured, but snow showers were again reported from many stations.

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

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 33

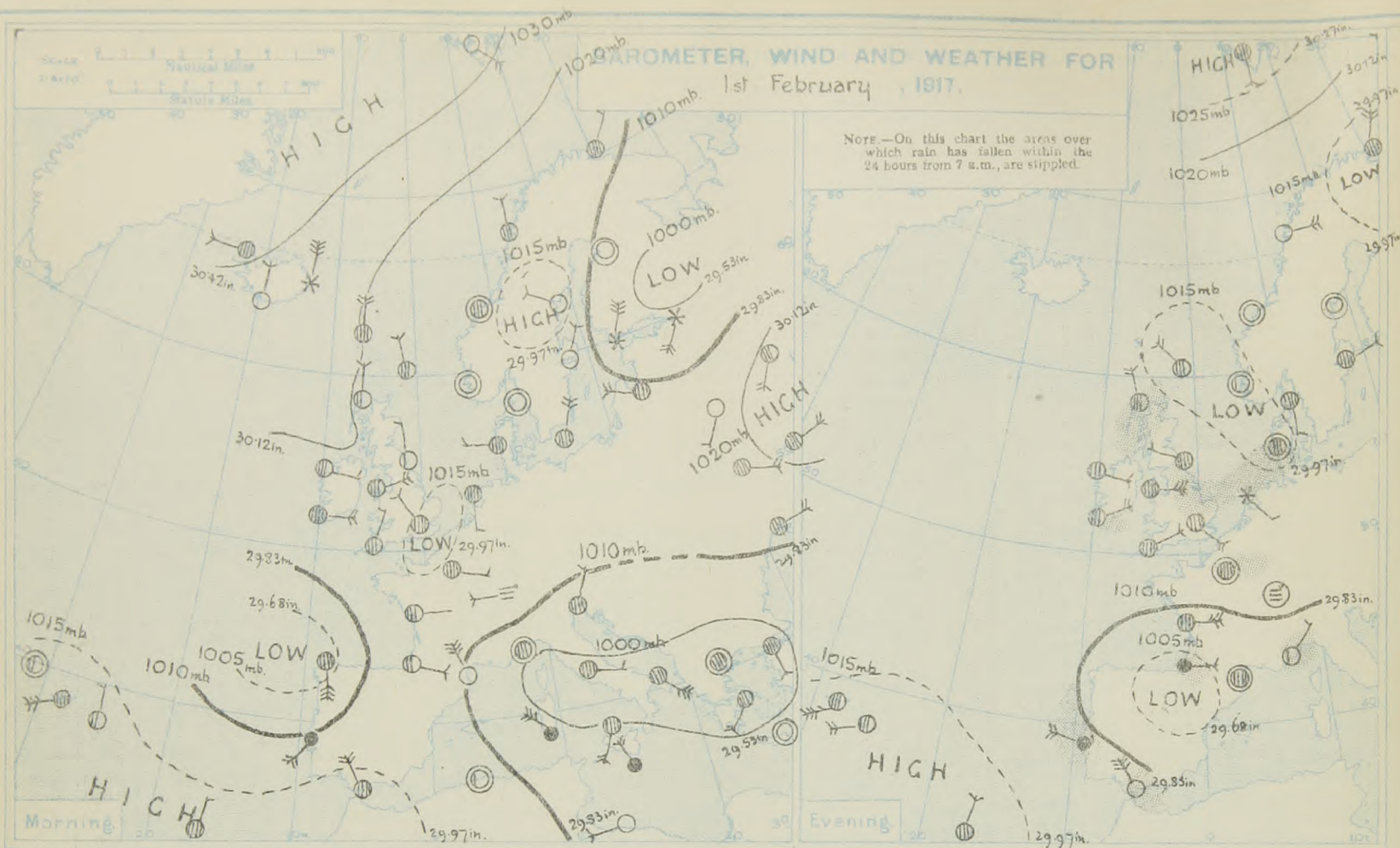
Friday,  
2nd February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS										Sun- shine for Yester- day. Hours.			
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.											
			Dir.	Force				Dry Bulb.	Change in 24 hours.	Dir.	Force					Max.	Min.	Morning.	Afternoon.	Night.									
BRITISH ISLANDS.																													
Lerwick ...	1012.9	34	NW	3	c	1007.8	-1	34	0	NNW	2	-	c	2	-	37	33	bc.c	c	bc.c	*								
Deerness (Orkney) ...	1015.2	34	NW	3	c	1010.8	*	32	-2	N	3	-	cps	2	1	37	32	cp	cpc	eps.c	0.5								
Stornoway ...	1017.5	36	NNW	3	c	1013.7	-2	33	0	NNW	2	-	ops	2	1	37	32	bc	bc.c	bc.ops	0.8								
Castlebay (Barra Isd.) ...	1019.0	39	N	2	o	1015.9	-1	36	-2	-	0	-	o	1	0.4	41	35	asp.bc	bc.o	op.c.o	2.0								
Glasgow ...	1017.4	35	NNW	1	o	1014.9	-1	33	-2	WNW	1	-	o	*	-	38	30	o	o	o.c.o	0.0								
Esksdalemuir ...	1017.3	30	NW	1	o	1015.8	0	24	0	-	0	-	o	*	-	34	23	bc.c.o	o	o	1.6								
Malin Head ...	1017.3	38	E	2	ov	1015.5	-1	37	0	WNW	3	NW	c	3	0.2	40	35	cv	cv	cp	0.0								
Blacksod Point ...	1017.1	33	ESE	2	cz	1017.0	-1	33	+1	ESE	2	E	cz	2	-	34	30	by	cz	bc.cz	*								
Valencia ...	1014.5	35	ESE	3	c	1016.0	+1	30	-6	-	0	-	b	3	-	40	30	oc.z.b	b.bc.o	cz.bc.b	0.6								
ROCHE'S POINT.																													
Roche's Point ...	1014.6	35	NE	2	bc	1016.3	*	35	0	NE	3	-	o	3	0.3	39	32	asp	osg.bc	bc.o	*								
Birr Castle ...	1015.9	27	NE	1	c	1016.9	*	26	-1	-	0	-	o	*	-	36	23	c	o	c.o	1.3								
Donaghadee ...	1016.7	37	SSE	2	om	1015.3	-1	35	-2	W	3	-	ogm	2	-	42	33	bcm	bcm	cm.ogm	*								
Liverpool (Bidston) ...	1017.0	32	NE	1	s	1015.6	0	30	0	W	2	-	o	1	-	35	28	sm.bc	bc.om	bc.o	0.1								
Holyhead ...	1015.8	35	E	5	om	1016.3	0	26	-10	-	0	-	bm.x	0	-	41	25	o.bc.b	b.bc.om	bm.x	4.0								
Pembroke (St. Ann's) ...	1014.6	35	E	3	b	1015.9	+1	27	-5	NNE	1	-	b	2	-	39	25	b	b	b.b	6.8								
SCILLY (St. Mary's).																													
Falmouth ...	1012.7	37	ENE	2	o	1013.8	+2	30	+3	NNE	3	-	bc	*	-	37	26	c.o	o	o.c.b	0.1								
Jersey (St. Aubin) ...	1011.9	35	ENE	2	b	1011.9	*	30	-7	NE	5	-	o	3	-	41	28	om	om.bm	om.o	1.6								
Portland Bill ...	1013.6	36	ENE	3	bc	1013.4	0	29	-1	NE	3	NE	c	3	-	39	28	bc	bc	bc.c	*								
Dungeness ...	1013.8	29	ENE	3	b	1014.3	0	25	-7	E	3	E	bc	3	-	32	25	bc	bc	bc.b	*								
Dover ...	1015.2	24	E	1	b	1015.2	0	23	-6	NE	1	NE	c	3	-	28	21	ps	sb	bc.c	2.2								
WICK.																													
Wick ...	1015.5	34	NW	1	m	1011.7	-2	32	-2	NW	1	-	o	2	1	37	30	og.cm	es.ogm	ogm.ps	*								
Nairn ...	1016.1	34	-	0	og	1012.6	*	34	+2	W	1	-	og	1	0.4	36	31	prsc	cg	ogc	0.2								
Aberdeen ...	1015.7	35	WNW	3	o	1012.4	-2	34	-1	W	1	NW	b	2	-	38	33	o.c.o	o	o.c.b	1.0								
Leith ...	1016.5	37	NNW	1	o	1014.4	-1	34	-1	SW	1	-	o	2	-	38	32	o.c.o	om.c.o	o.c.m	*								
Tynemouth ...	1016.4	34	NW	1	om	1013.8	-1	34	+3	NNW	2	-	om	3	1	37	30	bcm	cm	om	*								
Spurn Head ...	1015.7	34	E	2	bc	1013.3	-1	31	-2	NW	4	-	amps	4	0.2	37	29	bc	bc	bc	1.0								
YARMOUTH.																													
Yarmouth ...	1015.7	30	WSW	2	o	1013.0	-1	27	-4	W	2	-	amps	2	-	33	26	bc	om	amps	0.2								
Clacton-on-Sea ...	1015.7	29	ESE	2	c	1015.0	0	28	-2	ESE	1	-	o	1	1	33	27	ogs.c	c.bc.c	c.ops	0.3								
Nottingham ...	1015.6	34	NE	2	o	1014.8	*	27	-3	SW	1	-	s	*	Trace	36	23	bc.c	c.o	o.c.b	1.1								
Benson (Oxon.) ...	1014.9	29	E	1	o	1014.6	0	24	-6	-	0	-	om.x	*	-	35	20	o.bc	o	om	*								
St. Farnborough ...	1014.5	27	ESE	2	o	1014.2	0	27	-3	NE	2	-	om	*	Trace	37	26	m.b	c.o	om	1.5								
London (Kew Obs.) ...	1015.5	30	SE	3	om	1014.9	+2	27	-5	SE	1	-	om	*	Trace	34	25	om.cm.bm.cm.og.oms	om	om	0.1								
NORTHERN EUROPE.																													
Spitsbergen ...	1025.6	-27	S	2	o	1020.8	0	-35	-1	SE	1	*	b	*	*	-27	-41	-	-	-	-								
Vardö ...	1013.1	9	NNE	4	o	1013.5	-2	9	+2	NE	3	-	s	-	*	-	-	-	-	-	-								
Bodö ...	1016.6	12	E	4	b	1016.7	0	7	-12	E	4	-	b	2	-	16	7	-	-	-	-								
Christiansund ...	1015.8	25	-	0	b	1014.3	-1	21	-9	ESE	2	-	b	3	-	30	21	-	-	-	-								
Skudesnaes ...	1012.4	23	-	0	b	1011.1	0	27	+6	E	4	-	o	2	-	27	21	-	-	-	-								
Færder (Tania Fjord) ...	1015.7	23	E	5	s	1017.0	+1	18	-5	E	4	-	s	0	0	25	18	-	-	-	-								
The Scaw (Skagen) ...	1015.3	25	S	1	o	1014.7	0	25	+6	SE	3	-	o	0	-	27	18	-	-	-	-								
Blaavands Huk ...	1014.1	28	-	0	c	1012.0	-1	32	+5	WSW	2	-	s	3	Trace	32	25	-	-	-	-								
Copenhagen ...	1015.3	25	E	1	o	1015.5	+1	23	0	SE	1	-	o	*	-	27	21	-	-	-	-								
Bornholm ...	1015.3	25	E	1	o	1015.5	+1	23	0	SE	1	-	o	*	-	27	21	-	-	-	-								
FRANCE, &c.																													
The Helder ...	1016.4	25	SSE	1	s	1014.7	0	27	+4	W	1	-	b	0	Trace	28	23	-	-	-	-								
C. Gris Nez ...	1012.6	22	E	3	b	1013.2	0	11	-16	ENE	2	-	bc	0	9	34	11	-	-	-	-								
La Hève ...	1012.7	29	NE	4	b	1012.6	0	14	-14	NE	3	-	m	2	-	37	14	-	-	-	-								
Brest (St. Mathieu) ...	1011.0	37	ESE	4	o	1012.2	+3	31	-5	E	4	-	o	4	-	39	30	-	-	-	-								
Rochefort (Ile d'Aix) ...	1011.0	37	ESE	4	o	1012.2	+3	31	-5	E	4	-	o	4	-	39	30	-	-	-	-								
Biarritz ...	1004.8	45	E	2	r	1002.7	+2	36	+4	NE	1	-	r	2	-	45	32	-	-	-	-								
PARIS.																													
Paris ...	1012.8	27	S	1	o	1011.0	-1	21	0	NE	2	-	o	*	Trace	30	18	-	-	-	-								
Belfort ...	1014.9	18	-	0	s	1012.0	*	10	-4	ENE	4	-	f	*	-	23	10	-	-	-	-								
Lyons ...	1014.1	13	N	1	b	1010.7	*	7	-5	-	0	-	bc	*	-	22	7	-	-	-	-								
Nice ...	1006.1	35	NE	1	b	1005.9	0	36	+6	-	0	-	o	3	2	43	30	-	-	-	-								
Perpignan ...	1007.3	36	-	0	o	1004.8	-1	32	0	NW	1	-	o	*	-	45	30	-	-	-	-								
Sanguinaire ...	"	45	NW	S	m	"	*	43	+7	E	2	-	m	5	-	46	36	-	-	-	-								
SOUTHERN STATIONS.																													
Corunna ...	1010.9	50	WNW	4	r	1006.7	-3	52	-2	W	4	-	o	4	3	57	48	-	-	-	-								
Madrid ...	1010.9	50	WNW	4	r	1006.7	-3	52	-2	W	4	-	o	4	3	57	48	-	-	-	-								
Lisbon ...	1010.9	50	WNW	4	r	1006.7	-3	52	-2	W	4	-	o	4	3	57	48	-	-	-	-								
Azores (Horta) ...	1016.8	63	WSW	7	c	1021.2	0	52	-5	N	2	M	b	2	-	63	52	-	-	-	-								
Madeira ...	1018.9	63	N	2	c	1021.2	0	52	-5	N	2	M	b	2	-	63	52	-	-	-	-								
Gibraltar ...	1012.5	55	NW	6	b	1012.8	*	51	+1	NW	5	-	c	3	9	58	49	-	-	-	-								
Malta ...	"	"	"	"	"	1008.8	+4	48	-2	WNW	4	-	bc	3	12	54	43	-	-	-	-								
Limassol ...	"	"	"	"	"	1007.5	-2	61	+6	-	0	-	o	6	Trace	68	55	-	-	-	-								
Alexandria ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	-	-								
Cairo (Helwan) ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	-	-								
LONDON OBSERVATIONS.																													
Humidity.		Sun- shine for Yester- day.		24 Hours ended 9 h. To-day.		TEMPERATURE.		Rain- fall.		WEATHER.		SOUTH KENSINGTON.																	
15 h. Yester- day.		9 h. To- day.		Hours.		°F.		°F.		°F.		min.		Morn- ing.		After- noon.		Night.		Vertical Component of Solar Radiation per square Centimetre during Yesterday.									
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.		Total. Average Rate. Max. Rate.									
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.		Joules. Milliwatts. Milliwatts.									
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.		212 6.5 27.5									
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.		Temperatures at Greenwich and Cam- den Square are from Glaisher screens.									
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											
%		%				°F.		°F.		°F.		min.		°F.		°F.		°F.											

UPPER AIR.  
South Farnborough.  
Pilot Balloon Ascent at 7.29 a.m.  
750 metres: NNE: 8 m/s  
600 " NE: 7 m/s  
300 " ENE: 5 m/s  
Surface: E: 2 m/s

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 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

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Light or moderate North-Westerly winds;  
cloudy, some sleet or snow showers, local mist;  
continuing cold.

Light winds, indefinite in direction; cloudy,  
some mist; cold.

Same as Nos. 0 to 7.

Same as No. 8.

Moderate Easterly or North-Easterly winds;  
slight sea; cloudy, some rain or sleet.

Millibars

1050

1040

1030

1020

1010

1000

990

980

970

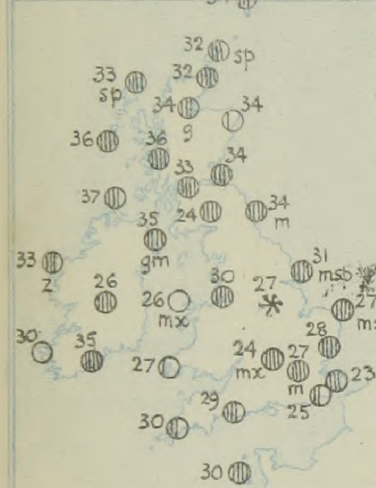


# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 2<sup>nd</sup> FEBRUARY, 1917.

GENERAL INFERENCE.

No important change  
is anticipated.

TEMPERATURE WEATHER AND  
SEA DISTURBANCE.



## EXPLANATION.

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

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

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

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

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

inches  
—31

30

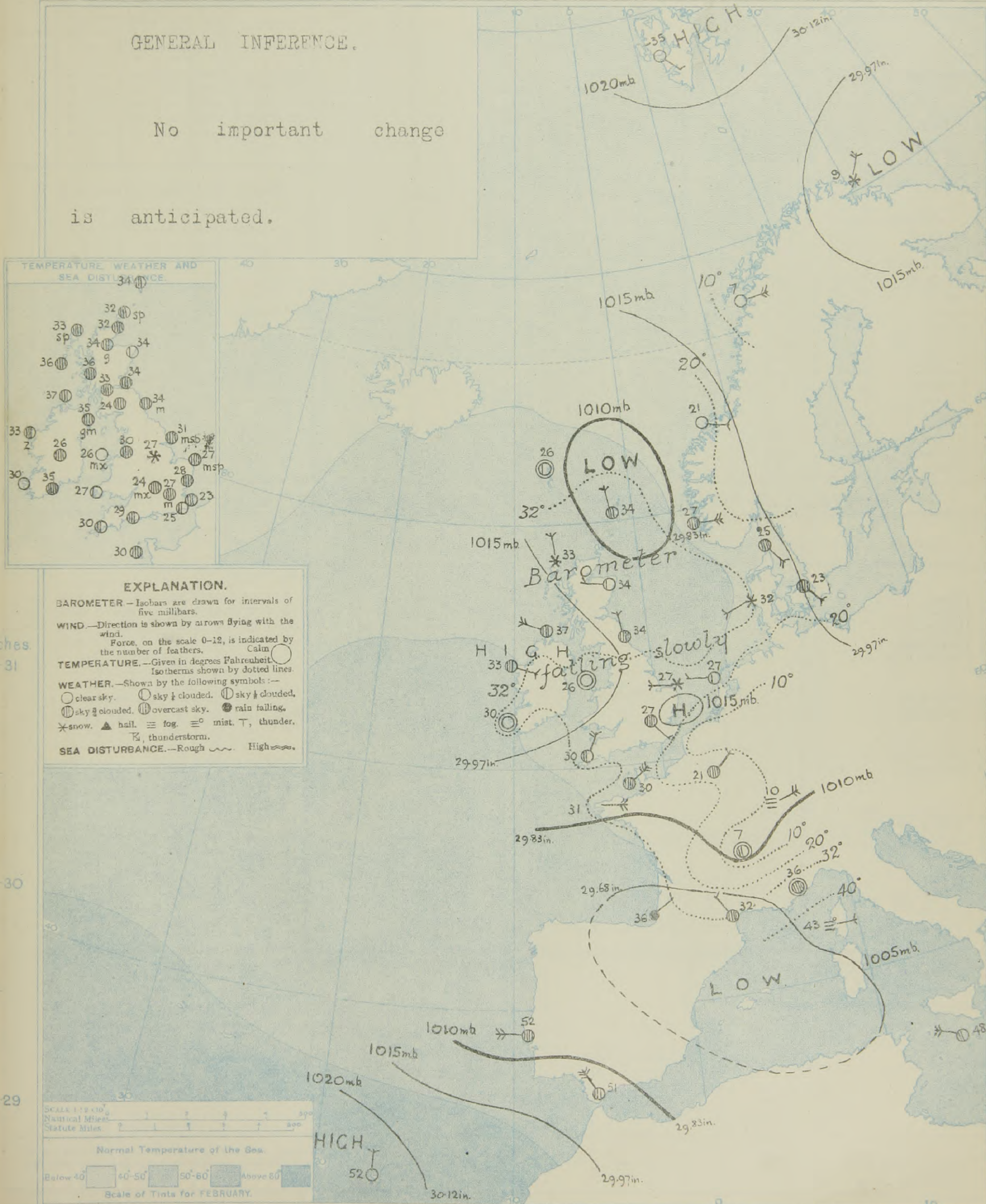
29

SCALE 1:100,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 40 40-50 50-60 Above 60

Scale of Tints for FEBRUARY.





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING.			
	Barom. Milli- bars at M.S.L.	Temp. ° F.	WIND.		Barometer. Milli- bars at M.S.L.	Change in 3 hours	Temp. Dry Bulb. ° F.	Change in 24 hours ° F.	WIND.	Force 0-12.	Weather.	Rain- fall. Milli- metres.	Temp. Max. ° F.	Temp. Min. ° F.	ICELAND.	Barom. Milli- bars at M.S.L.
			Dir.	Force 0-12.												
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1010.9	-9	SE	1	0										
	Gorki ...															
	Velieki Luki ...	1020.0	-11	3	2	b										
	Hangö ...	1007.7	25	-	0	0										
	Riga ...	1014.7	0	S	2	bc										
	Petrograd ...	1008.3	7	SW	4	0										
	Moscow ...	1024.4	-11	SW	3	b										
	Kiev ...	1021.4	-8	ESE	4	b										
	Kharkov ...	1026.6	-13	ENE	3	b										
	Kishinev ...	1016.3	5	-	0	0										
MEDITERRANEAN.	Elisabetgrad ...	1020.3	-2	ENE	4	c										
	Nicolaiev ...	1017.5	3	ENE	5	c										
	Odessa ...	1016.3	6	ESE	5	0										
	Tarkhankout ...															
	Soukhoum ...	1007.0	54	ENE	1	0										
	Venice ...	1000.2	28	NNE	1	0										
	Pesaro ...	1000.9	28	W	2	S										
	Rome ...	996.7	39	N	1	c										
	Viesti ...	990.8	45	SE	2	r										
	Brindisi ...	989.0	50	SE	5	0										
SWEDEN.	Cagliari ...	1000.7	57	NW	4	0										
	Palermo ...	998.7	50	S	5	0										
	Tripoli ...															
	Algiers ...															
	Hernösand ...	1004.8	25	N	2	b										
	Stockholm ...	1011.1	25	WNW	2	0										
	Wisby ...	1011.8	27	NW	4	0										

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	—	—	43	26	o b	o	2.9	England, E.	Lowestoft ... ..	5	—	33	29	o. c	c. o	0.0
	Banff ... ..	—	—	39	32	c. bc	cors. c	0.4		Felixstowe ... ..	1	—	32	27	o. bc. v	bc	0.8
	Montrose ... ..	1	2							Walton-on-Naze ... ..	1	—	32	28	os. bc.	bc. c.	0.6
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	3	—	34	29	o	o. c	1.1
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	1	—	34	26	om bc b	bc c b	4.2	England, S.E.	Margate ... ..	—	—	31	28	c	c	0.2
	Skegness ... ..	1	—	34	27	o	c	1.6		Ramsgate ... ..	—	—	33	26	os. bc	o. bc. b	2.1
Eng. N.W.	Morecambe ... ..	—	—	37	25	—	—	5.2		Hastings ... ..	Trace	—	35	31	o. bc	bc. o	0.0
	Southport ... ..	—	—	37	25	x. b. bc. c	o. c. bc. b	2.3		Eastbourne ... ..	*	—	34	25	o	c	3.3
										Seaford ... ..	Trace	—	35	29	c	c. bc.	1.8
										Brighton ... ..	Trace	—	35	30	c	bc	0.3
										Worthing ... ..	Trace	—	35	29	o. bc	o	0.6
Midlands.	Leamington Spa ... ..	—	Trace	36	22	os. c	bc c	1.1		Littlehampton ... ..	—	—	35	29	os. bc.	o. bc. b.	0.6
	Malvern ... ..	—	Trace	36	22	os. c	bc c	1.1		Bognor ... ..	—	—	35	29	os. bc.	o. bc. b.	0.6
	Ross-on-Wye ... ..	—	Trace	36	22	os. c	bc c	1.1	Bournemouth ... ..	—	—	37	24	o c o	c o	1.1	
Wales.	Rhyl ... ..	—	—	37	24	cx	cs	1.5	England, S.W.	Weymouth ... ..	—	—	40	25	bc. b	b. bc. c	3.5
	Colwyn Bay ... ..	—	—	38	29	c os	o	3.3		Torquay ... ..	—	—	40	27	bc c	bc	3.8
	Llandudno ... ..	—	—	39	29	bc	bc	2.6		Paignton ... ..	—	—	39	27	o. c	o	0.0
	Aberystwyth ... ..	—	—	36	25	h. o. c	c. o	0.5		Penzance ... ..	—	—	37	21	b	bc	3.2
	Tenby ... ..	—	—	36	25	h. o. c	c. o	0.5		Newquay ... ..	—	—	41	?	b	b	?
									Ilfracombe ... ..	—	—	39	29	b	b	6.4	
									Weston-s-Mare ... ..	—	—						

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

2 <sup>nd</sup> & 3 <sup>rd</sup> February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	7.36 7.35	12.7 12.7	4.38 4.39
Greenwich ...	7.39 7.38	12.14 12.14	4.44 4.50
Wick ...	8.19 8.7	12.26 12.26	4.33 4.35
Valencia ...	8.23 8.21	12.55 12.55	5.27 5.29

## NOTES ON YESTERDAY'S WEATHER.

A little precipitation fell in the form of snow. Good sunshine measurements were recorded locally, but generally the weather was cloudy. Temperature remained below the freezing point throughout the day at a few stations in the south-east.

Notes.—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 snows; 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.

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

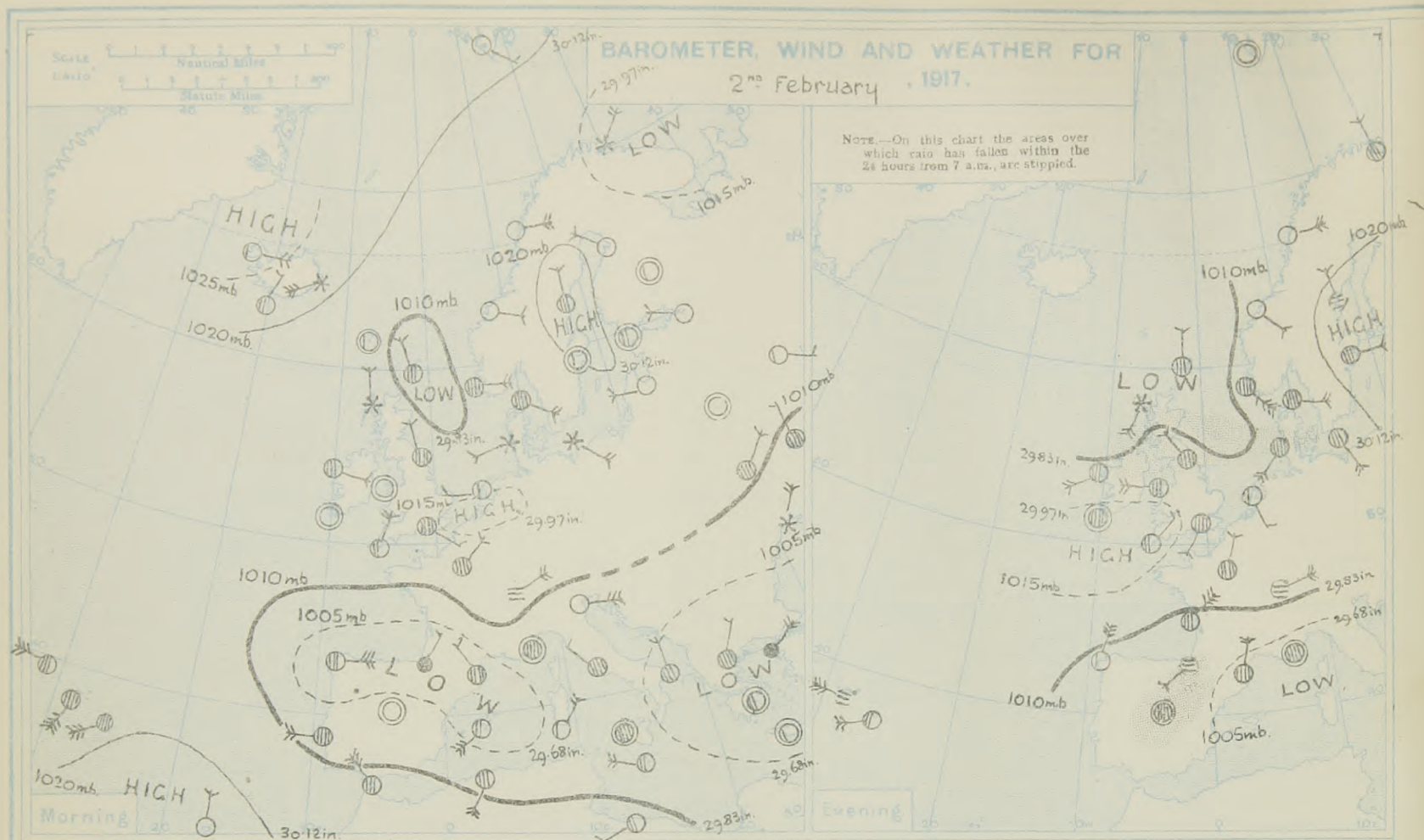


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 34

Saturday  
3rd February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS						Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND		Weather.	Barom. Milli- bars at M.S.L.	Change in 2 hours.	Temp. °F.	Change in 24 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.		
Lerwick ...	1005.5	36	N	2	c	999.1	-2	34	0	MNE	2	-	o	2	1	38	33	bc	bc.c	csp.o	*	
Deerness (Orkney) ...	1007.4	33	W	1	c	996.6	*	34	+2	SW	4	-	ops	4	3	35	32	cps.c	c	c.aps	1.2	
Stornoway ...	1006.1	34	SSW	4	ops	1003.5	+1	33	0	NW	4	-	bc	3	4	37	31	oz	ops	beps	0.2	
Castlebay (Barra Isd.) ...	1009.0	39	SW	3	op	1007.7	0	37	+1	N	3	N	bc	3	2	41	33	o	op	hb.hbc	0.0	
Glasgow ...	1011.4	35	SW	1	cz	1005.8	0	33	0	NW	2	-	fm	*	2	36	32	oz	o.bx	or.sp.b	0.0	
Eskdalemuir ...	1012.3	31	SW	3	o	1006.1	-4	29	+5	SW	5	-	os	*	4	32	23	o	o	o	0.1	
Malin Head ...	1009.7	36	SW	4	csp	1006.7	0	37	0	SW	3	SW	c	3	5	40	34	c	qp	csp	0.7	
Blackod Point ...	1012.5	37	SW	3	cv	1009.1	-3	36	+3	W	3	W	cg	3	5	37	31	cz	cv	om.p	*	
Valencia ...	1015.5	35	-	0	o	1011.3	-2	37	+7	SSE	3	W	cz	*	-	39	30	bz	bz.c.o	o.cx	5.7	
Roche's Point ...	1016.0	31	EME	1	b	1013.3	*	31	-4	NE	1	-	o	2	0.1	37	29	oz	o.bz	b.o	*	
Birr Castle ...	1015.6	29	SE	1	c	1011.8	*	22	-4	ESE	1	-	o	*	-	36	13	c.c	c	c.o	3.0	
Donaghadee ...	1012.2	36	W	4	cm	1007.7	-3	32	-3	W	4	-	ogm	3	Trace	39	32	cm	cm	cm.gps	*	
Liverpool (Bldston) ...	1014.1	35	W	3	o	1011.3	-2	32	-2	SSW	2	W	o	2	-	36	30	bc.o	om	o	0.6	
Holyhead ...	1014.5	37	W	4	cg	1010.4	-1	36	+10	SW	5	-	cg	4	-	43	25	b.b.c	bc.c	bc.o.c	6.1	
Pembroke (St. Ann's) ...	1015.2	33	M	2	b	1012.9	-4	38	+11	SSW	3	-	o	3	-	38	25	b	b	bc.o	7.7	
BRITISH ISLANDS.																						
Scilly (St. Mary's) ...	1015.2	30	NE	1	bcax	1014.3	-1	27	-3	NE	1	-	b	*	-	37	25	b.b.c	c.b.c	bc.bx	3.4	
Falmouth ...	1013.4	30	NE	4	b	1014.9	*	27	-3	NE	2	NE	c	1	Trace	32	24	asp.b.o	b	o.b.c	4.5	
Jersey (St. Aubin) ...	1014.7	31	NNE	2	c	1014.9	0	33	+4	NNW	1	-	c	3	-	34	29	c	c.b.c	b.b.c.o	*	
Portland Bill ...	1014.7	23	NE	2	bc	1013.9	0	16	-9	NNE	2	-	b	2	-	28	16	bc	bc	bc.bx	*	
Dungeness ...	1015.6	21	NE	1	c	1015.1	0	19	-4	NE	1	-	b	2	-	26	16	c	c	c.b.c	0.7	
Dover ...	1007.9	29	WSW	2	c	997.0	-4	32	0	SW	4	-	c	3	1	37	28	ops.cm	cm	cmph	*	
Wick ...	1007.8	35	W	1	og	1002.0	*	31	-3	W	1	-	bc	1	0.4	36	29	drsc	og	prscx	0.3	
Nairn ...	1009.3	33	WSW	2	c	1002.3	-1	32	-2	WSW	3	-	b	2	-	36	32	b.b.c	bc.c	c.b.c.b	1.5	
Aberdeen ...	1010.6	34	SW	1	b	1004.5	-1	34	0	NW	2	NW	bc	3	0.1	36	31	om.cu.c	cz.c.b	bes.bc	*	
Leith ...	1012.2	33	NW	2	cm	1007.0	-2	35	+1	W	2	-	om	3	-	37	33	cm	cm	om	*	
Tynemouth ...	1012.9	34	NW	2	bc.m	1012.1	0	31	0	NNW	2	-	om	4	-	36	28	bc.m	bc.m	c.om	0.0	
Spurn Head ...	1013.3	27	WSW	1	o	1013.3	+1	25	-2	WSW	3	-	f	2	-	30	20	om	om	bc.mom	0.0	
Yarmouth ...	1014.5	27	WNW	1	c	1014.2	0	27	-1	W	1	-	o	1	-	29	21	ods	o.c	c.bc.mo	0.0	
Clacton-on-Sea ...	1014.1	33	NNW	1	om	1012.6	*	29	+2	SW	1	SW	o	*	Trace	37	25	c.b.m	bc.om	o.c	0.0	
Nottingham ...	1014.5	27	-	0	o	1013.4	0	26	+1	-	0	-	om	*	0.2	30	19	os	os	o	*	
Benson (Oxon.) ...	1012.9	29	NW	1	o	1013.9	0	25	-2	W	1	-	b	*	0.2	31	20	o.b.om	so.c.o	o.b.m	0.6	
St. Farnborough ...	1014.6	28	SSW	2	om	1014.1	0	25	-2	SW	2	-	om	*	Trace	30	24	om.bm.og	oms.om	oms.om	0.0	
London (Kew Obsy.) ...																						
NORTHERN EUROPE.																						
Spitsbergen ...	1014.7	-33	-	0	b	1002.0	-9	-4	+31	NNW	6	*	o	*	*	2	-42					
Vardö ...	1013.0	14	N	2	c	1012.8	-3	12	+3	NNW	4	-	b	3	-	14	9					
Bodö ...	1013.9	10	E	4	b	1005.2	-3	16	+9	E	4	-	b	2	-	16	3					
Christiansund ...	1012.0	21	SE	2	b	1014.0	-3	21	0	SE	3	-	b	3	-	23	19					
Skudesnaes ...	1011.1	28	SE	7	o	1008.8	-1	30	+3	SE	5	-	o	4	-	?	?					
Færder (X'ania Fjord) ...	1017.7	16	ENE	2	o	1009.6	-6	28	+10	SSE	6	-	s	0	?	28	14					
The Scaw (Skagen) ...	1014.1	25	ESE	3	o	1013.1	+1	25	0	S	8	-	s	0	?	29	21					
Blaavands Huk ...	1011.5	30	SW	4	o	1014.1	0	29	-3	SSW	4	-	o	5	?	30	27					
Copenhagen ...	1016.6	27	SSE	3	s	1019.1	+1	25	+2	S	2	-	c	*	1	28	23					
Bornholm ...	1017.5	23	SSE	3	c	1019.5	+1	19	-6	ESE	4	SE	bc	1	-	23	16					
FRANCE, &c.																						
The Helder ...	1014.7	23	SSE	1	b	1015.5	0	16	-11	SSE	1	-	b	0	-	34	14					
C. Gris Nez ...	1014.1	23	ENE	1	c	1013.3	0	22	+11	E	1	*	bc	0	-	25	11					
La Hève ...	1012.8	20	NE	3	m	1015.3	*	21	+7	ENE	1	*	m	1	-	21	14					
Brest (St. Mathieu) ...																						
Rochefort (de d'Alx) ...	1009.2	25	NE	6	c	1013.5	+2	19	-	NNE	4	*	b	*	-	?	18					
Biarritz ...	1007.1	39	SW	2	f	1011.1	+1	32	-4	E	2	*	o	2	3	39	30					
Paris ...	1011.9	19	N	2	b	1014.1	+1	12	-9	N	2	-	c	*	-	27	10					
Belfort ...	1011.1	16	ENE	4	m	1013.5	*	16	+6	ENE	4	*	f	*	-	21	10					
Lyons ...	1009.6	16	NW	1	b	1013.6	*	7	0	NNW	1	*	f	*	-	21	9					
Nice ...	1004.3	37	-	0	o	1004.8	+1	36	0	-	0	*	o	3	-	41	32					
Perpignan ...	1004.4	39	NNE	3	o	1008.3	+3	36	+4	NNW	3	NW	bc	*	-	45	32					
Sanguinaire ...	*	46	NNW	3	m	*	*	45	+2	E	3	*	o	3	-	46	41					
SOUTHERN STATIONS.																						
Corunna ...	1007.0	52	NNE	6	b	1009.1	-1	45	-3	E	4	-	o	3	-	54	43					
Madrid ...	1006.6	41	-	0	o	1013.1	+1	32	-4	M	1	-	m	*	Trace	41	32					
Lisbon ...	1010.7	52	WNW	3	bc	1010.3	0	50	-2	WSW	2	-	o	*	Trace	55	50					
Azores (Horta) ...	1014.4	*	W	6	m	1014.0	+1	60	+4	WSW	7	*	o	5	2	63	59					
Madeira ...																						
Gibraltar ...																						





**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. North Coast.

No Warnings Issued.

Western Channel and Bay 11

Moderate winds between North-West and West; fair intervals, some sleet or snow showers; rather cold

Light, indefinite winds; cloudy, some mist; cold.

Same as Nos. 6 and 7.

Same as No. 3.

Moderate winds between South-West and West; cloudy, some showers; becoming rather milder.

Same as No. 3.

Same as No. 6 and 7

Moderate Easterly or North-Easterly winds and moderate sea; fair, some showers.

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

Millibars  
1050—1

1040

1030

1020

1010

1000

990

980

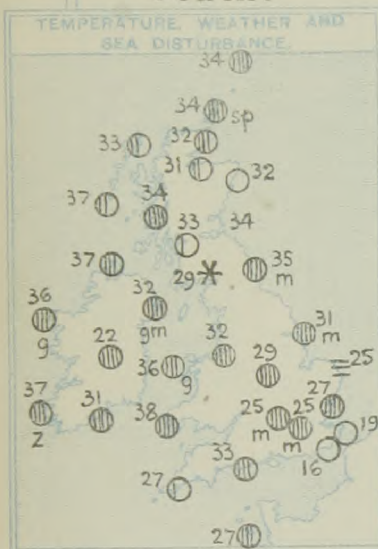
970



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 3<sup>RD</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

The depression off the north of Scotland is moving eastward. Quiet conditions are likely to continue in the south.



## EXPLANATION.

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

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

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

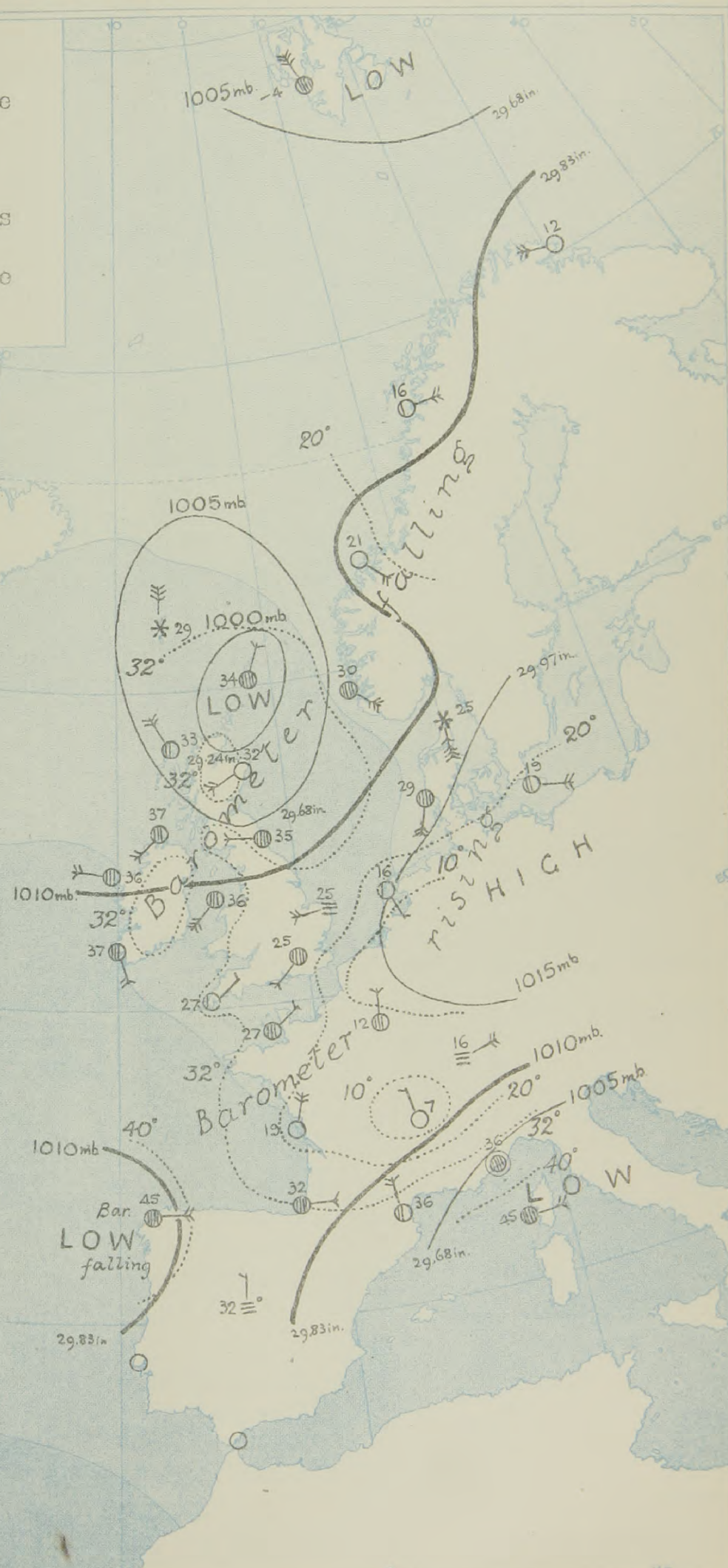
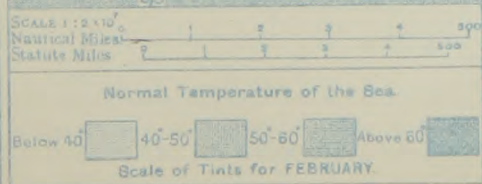
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky    ○ sky 1/2 clouded    ○ sky 3/4 clouded    ○ overcast sky    ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
 K, thunderstorm.

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

Inches.  
31

30

29





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.			MORNING.										
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Force 0-12.	Weather.	Rain- fall. Milli- metres.	TEMP.		ICELAND.	BAROM. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.		
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.					Dir.	Force 0-12.			Max.	Min.	Dry Bulb.	Change in 24 hours.		Dir.	Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1000.4	-26	NE	3	S											Isafjord ...	1022.2	19	-6	E	4	b	
	Gorki ...	1012.7	0	S	1	a											Reykjavik	1022.4	21	-2	ENE	3	bc	
	Velieki Luki ...	1014.1	-2	ENE	1	o											Vestmanna	1021.1	30	-11	NE	1	bc	
	Hangö ...	1018.0	-4	—	0	b	1018.4	0	6	-12	—	0	bc	—	*	-11	Seydisfjord	1022.6	21	-2	WSW	5	S	
	Riga ...	1015.8	3	NNE	3	b											Thorshavn	1010.4	26	-5	—	0	b	
	Petrograd ...	1013.3	-11	W	3	b	1017.9	+3	-13	-25	WNW	2	b	—	16	-15								
	Moscow ...	1017.6	-4	SSW	2	S	1015.9	+2	-6	+11	ESE	1	b	2	*	-8								
	Kiev ...	1012.4	3	ENE	1	o	1012.4	0	5	+9	NE	2	o	—	*	-4								
	Kharkov ...	1011.5	9	E	2	o	1008.3	0	12	+25	N	1	o	—	*	-13								
	Kishinev ...	1009.7	9	NNE	1	o	1025.1	0	9	+4	—	0	o	12	*	3								
MEDITERRANEAN.	Elisabetgrad ...	1010.0	7	NNE	2	o	1009.0	+1	7	+6	N	3	o	1	*	1								
	Nicolaiev ...	1007.8	12	NE	4	o	1007.4	*	10	+5	NNE	3	S	3	*	1								
	Odessa ...	1007.9	12	ENE	4	S	1008.8	+1	10	+1	NE	3	S	26	*	9								
	Tarkhankout...																							
	Soukhoun ...																							
	Venice ...	1008.3	30	NE	1	b	1008.3	*	25	-5	E	5	b	—	36	25								
	Pesaro ...	1007.1	32	NW	3	o	1009.3	*	30	0	WSW	1	o	—	34	30								
	Rome ...	1004.1	37	N	2	b	1007.3	*	32	-7	N	1	b	Trace	45	32								
	Viesti ...	1004.1	41	NW	2	o	1006.8	*	41	-12	NW	1	o	1	43	39								
	Brindisi ...	1002.2	50	NNW	1	bc	1004.3	*	48	+5	N	2	c	—	50	43								
SWEDEN.	Cagliari ...						1006.6	*	45	-3	NE	3	b	8	50	39								
	Palermo ...	1001.9	47	ESE	2	o	1008.2	*	44	-7	—	0	o	10	57	39								
	Tripoli ...						1011.0	*	57	-2	WSW	1	b	—	59	55								
	Algiers ...	1011.3	50	—	0	c	1007.0	+1	52		SW	4	c	1	55	50								
	Hernösand ...	1016.6	-2	—	0	b	1022.0	*	-5	-12	N	2	c	*	*	*								
	Stockholm ...	1018.6	10	N	2	b	1020.0	*	5	-14	—	0	b	*	*	*								
	Wisby ...	1016.0	21	ENE	2	o	1013.4	*	16	-9	SE	2	b	*	*	*								

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 1st-5h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 1st-5h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Mm.	Mm.	F.	F.			Hr.	England, E.	Mm.	Mm.	° F.	° F.			Hr.		
	Oban ... ..	-	-	40	31	o	c		0.0	Lowestoft ... ..	Trace	-	31	26	ops	op o c	0.3
	Banff ... ..	1	-	39	31	bc	bc		2.5	Felixstowe ... ..	1	-	28	26	o b	o	0.0
	Montrose ... ..									Walton-on-Naze ... ..							
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	Trace	-	28	25	o	o	0.0
St. Andrews ... ..	-	-	39	31	bc	c	2.2										
Eng. N.E.	Harrogate ... ..	-	-	34	24	c b c b	b. bc. c	5.9	England, S.E.	Margate ... ..	-	-	29	26	c	c	0.1
	Skegness ... ..	2	Trace	37	24	s. o. c	c	1.0		Ramsgate ... ..	-	-	28	20	o b c o	bc	2.4
Eng. N.W.	Morecambe ... ..	-	-	35	27	-	-	0.0		Hastings ... ..	-	-	29	23	bc b	bc	3.1
	Southport ... ..	-	-	36	23	o. c. o	o	0.0		Eastbourne ... ..	-	-	30	22	bc	bc	3.4
Midlands.										Seaford ... ..	*	*	29	23	c. o	o	1.6
	Leamington Spa ... ..	-	-	34	21	bcx	cmx	0.1		Brighton ... ..	-	-	30	23	c	o	0.7
	Malvern ... ..	-	-							Worthing ... ..	-	-	30	24	b o	o	1.0
	Ross-on-Wye ... ..	-	-							Littlehampton ... ..	-	-	31	25	bc s	bc s. o	1.8
										Bognor ... ..	-	-	33	24	c. bc	cm	3.5
Wales.									Bournemouth ... ..	-	-						
	Leamington Spa ... ..	-	-	34	21	bcx	cmx	0.1	England, S.W.	Weymouth ... ..	-	-	35	25	bcx	z. c	2.6
	Malvern ... ..	-	-							Torquay ... ..	-	-	37	26	bc	bc	1.9
	Ross-on-Wye ... ..	-	-							Paignton ... ..	-	-	35	25	bc	bc	1.3
	Rhyl ... ..	-	-	37	20	bcx	x bc c	1.1		Penzance ... ..	-	-	38	29	c. b	bc	5.4
	Colwyn Bay ... ..	-	-	40	21	bc	bc	2.0		Newquay ... ..	-	-	36	22	b	b	6.4
	Llandudno ... ..	-	-	39	21	b	c	2.1		Bude ... ..	-	-	38	24	b	b	6.9
	Aberystwyth ... ..	-	-	37	20	h. a. c	b. bc	7.5		Ilfracombe ... ..	-	-	36	26	bc	bc	4.4
Tenby ... ..	-	-						Weston-s-Mare ... ..		-	-	35	24	c bc	bc cm	1.0	

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

3 <sup>rd</sup> Feb. 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.35 7.33	G.M.T. 12.7 12.7	G.M.T. 4.39 4.41
Greenwich ...	7.38 7.36	12.14 12.14	4.50 4.52
Wick ...	9.17 9.15	12.26 12.26	4.25 4.27
Valencia ...	9.21 9.19	12.55 12.55	5.29 5.31

## NOTES ON YESTERDAY'S WEATHER.

A Westerly current spread over the northern parts of the country, with snow showers at many stations. Night temperatures fell to 20° in the south-east of the country. Sunshine readings ranged up to 7.7 hours at Pembroke.

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

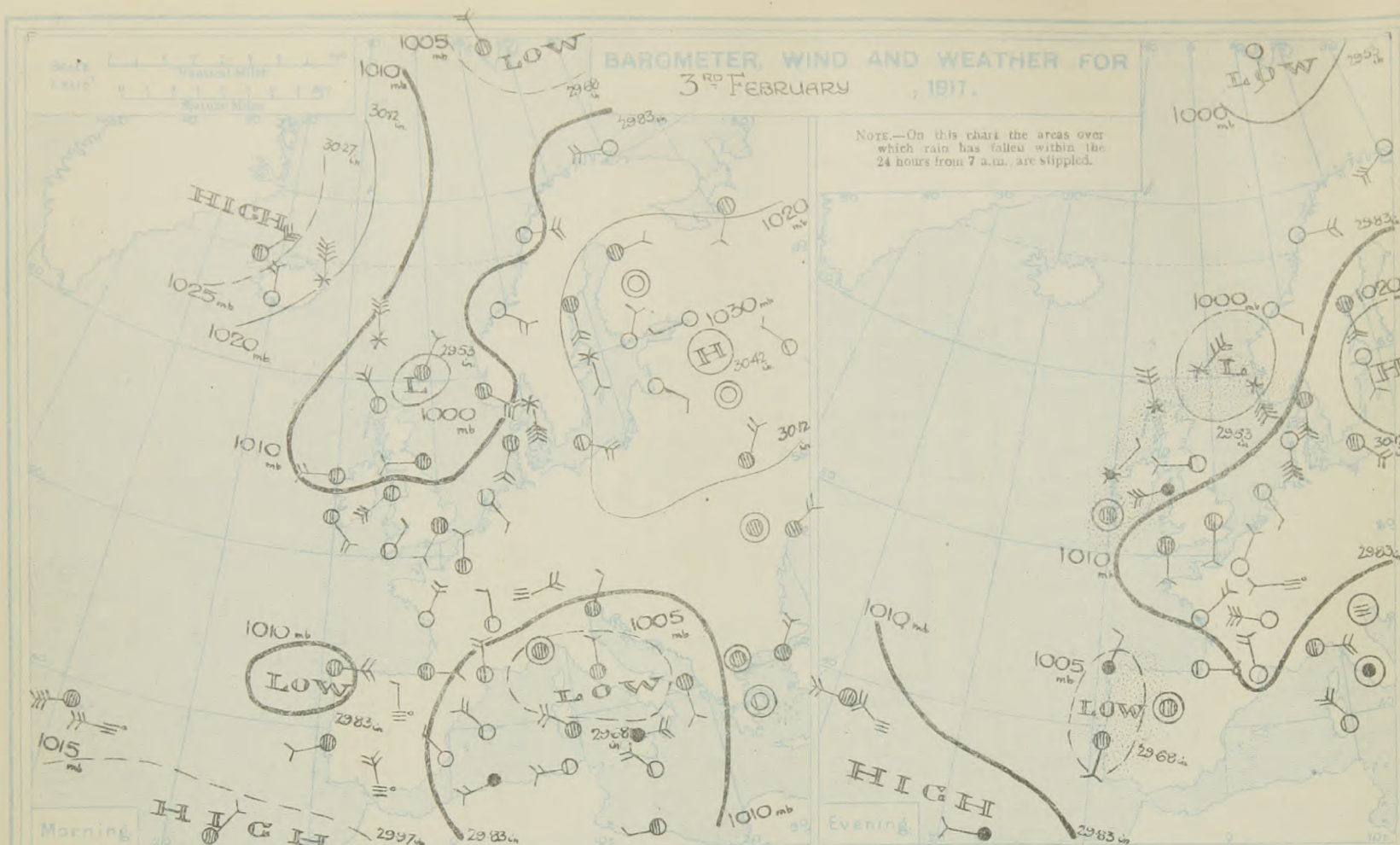
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 35. Sunday, 4<sup>th</sup> February

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Direc.	Force 0-12					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	99.57	33	NE	5	Sq	1006.1	+1	23	-11	N	2	N	c	2	11	35	23	osq	og.sp	esp	*	
Deerness (Orkney) ...	99.73	33	NNW	5	ops	1008.1	*	25	-9	N	5	-	c	3	3	37	22	c. ops	ops	ops. c	0.6	
Stornoway ...	1005.0	34	NNW	6	bcp sq	1012.0	+2	25	-8	N	4	-	bc	4	3	37	24	bcp s	bcp sq	bcp sq	2.3	
Castlebay (Barra Isd.) ...	1008.1	38	WNW	3	c	1014.3	+2	30	-7	NNE	3	NW	c	3	2	39	27	bcp bc	c. bc	cs. bc	1.8	
Glasgow ...	1006.9	32	WNW	1	bc	1010.6	+2	28	-5	N	1	NW	c	*	Trace	37	26	bj. bc	bc. chp	bz. bc	4.8	
Eskdalemuir ...	1007.4	28	SSE	1	bc	1010.4	+2	22	-7	SE	2	-	b	*	-	33	20	os. bcb	b. bc	bc. b	6.1	
Malin Head ...	1007.7	37	N	4	cv	1011.6	+3	32	-5	NNE	4	-	os	3	2	39	32	bc	cv	os	2.7	
Blacksod Point ...	1009.2	36	NE	1	cprs	1014.0	+2	33	-3	N	5	NW	bcp s	3	7	38	31	cv	cprs	bcp s	*	
Valencia ...	1009.6	38	-	0	oz	1013.8	+3	35	-2	NNE	3	N	bx	3	1	44	31	c. o. cz	c. oz	oz. b. bx	0.8	
Roches Point ...	1010.7	37	-	0	b	1013.2	*	33	+2	NNW	2	-	b	2	1	45	30	o. b	bz.	b. os. b	*	
Birr Castle ...	1009.5	35	NW	1	s	1013.3	*	29	+7	NW	1	-	m	*	2	39	22	c	c. os	os. f	3.9	
Donaghadee ...	1008.1	33	W	3	m	1010.6	+1	32	0	WNW	3	W	bcmx	2	-	38	28	bcm	bcm	bcmx	*	
Liverpool (Bidston) ...	1009.2	36	WSW	3	o	1010.2	+1	31	-1	SW	2	-	og	2	17	37	30	c. bc	os	os	0.3	
Holyhead ...	1008.9	38	WSW	5	opd	1009.8	+1	36	0	ESE	4	-	b	3	9	40	35	o. ops	ops. pd	opd. ps	0.0	
Pembroke (St. Ann's) ...	1011.4	37	SSW	3	o	1010.5	?	33	-5	N	2	-	os	3	4	39	33	o	c ops	bcp os	0.2	
SCILLY ISLANDS.																						
St. Mary's ...	1012.0	35	S	2	o	1011.9	0	34	+7	SSW	1	-	o	*	-	43	27	bc o c	c o	o. c. b. o	4.0	
Falmouth ...	1012.0	30	E	2	bm	1012.3	*	29	+2	E	3	-	b	1	-	32	23	c b	bm	bm. b	2.7	
Jersey (St. Aubin) ...	1013.0	30	E	2	bm	1012.3	*	29	+2	E	3	-	b	1	-	32	23	c b	bm	bm. b	2.7	
Portland Bill ...	1012.4	36	SSW	2	b	1011.0	0	36	+3	SW	3	SW	o	3	1	38	30	c o	o. c. bc	bc. o. o	*	
Dungeness ...	1013.5	30	SE	1	b	1011.0	0	17	+1	-	0	-	o	0	-	34	15	b	c. b	b. bz	*	
Dover ...	1013.8	28	SE	1	b	1012.8	0	31	+12	-	0	S	c	4	-	34	18	bm	b	b. bz	1.8	
Wick ...	99.84	31	WNW	4	c	?	+4	26	-6	N	5	-	o	4	3	35	24	cmphs	mps. cq	omphs	*	
Nairn ...	1002.0	32	W	2	os	1010.4	*	26	-5	NW	3	-	cg	3	2	36	24	bc	cqps	sp. qg	5.4	
Aberdeen ...	1001.9	34	WSW	4	b	1008.3	+4	26	-6	NW	2	-	bc	2	6	37	26	bc	bc	b. os	7.4	
Leith ...	1005.6	34	W	2	c	1009.6	+2	31	-3	NW	2	NW	bc	3	-	38	29	bc. c. b	b. bc. c	c. b. bc	*	
Tynemouth ...	1006.5	37	W	2	bm	1008.7	+1	27	-8	WNW	2	N	bcm	3	-	37	27	bm	bm	bm	*	
Spurn Head ...	1009.3	34	WSW	4	om	1009.0	0	30	-1	NW	4	-	om	4	1	35	28	om	om	ops	0.0	
Yarmouth ...	1011.9	28	SW	4	o	1010.6	0	26	+1	SW	2	-	b. c. f	2	-	30	24	f. om	om	b. c. f	0.0	
Clacton-on-Sea ...	1013.1	31	S	3	c	1012.0	0	28	+1	SSW	2	-	bc	2	-	32	25	o. c	c	c. bc. x	0.0	
Nottingham ...	1010.2	33	SW	2	c	1010.2	*	29	0	SW	1	-	o	*	2	35	28	o sm	o. c	c. o	0.0	
Benson (Oxon.) ...	1012.1	27	SW	1	b	1010.9	0	24	-1	SSW	1	W	bcmx	*	-	37	22	o. bc	bc	o. c. bc. m	*	
St. Farnborough ...	1012.0	28	SW	1	c	1011.6	-1	19	-6	S	1	-	bm. x	*	-	39	18	m. bc. bc	bc. bc	c. o. bc. m	1.7	
London (Kew Obs.) ...	1012.5	32	S	2	cm	1012.0	0	23	-2	-	0	-	fx	*	-	36	22	om	om. cm	cm. b. m. x	0.0	
NORTHERN EUROPE.																						
Spitsbergen ...	99.90	-20	S	1	b	1008.3	+3	-20	-16	S	2	*	b	*	*	-4	-23	8cm of snow lying				
Vardö ...	1004.0	+3	SW	5	b	1001.2	-3	+7	-5	WSW	4	-	o	4	*	12	3	at Nairn and Aberdeen				
Bodö ...	1005.0	16	E	4	b	1000.4	-1	12	-4	E	5	-	?	2	-	16	9					
Christiansund ...	1000.3	28	SE	1	b	99.72	+2	34	+13	S	1	-	o	3	-	34	18					
Skudesnaes ...	99.99	34	SSE	8	S	1001.2	0	36	+6	S	6	-	c	5	2	36	28					
Færder (X'ania Fjord) ...	1011.4	25	S	8	o	1012.3	0	27	-1	S	7	-	o	4	?	28	19					
The Scaw (Skagen) ...	1016.3	25	S	7	o	1015.0	+1	25	0	S	6	-	c	0	-	27	?					
Blaavands Huk ...	1015.3	25	SSW	5	o	1013.5	0	23	-6	S	4	-	c	5	-	30	19					
Copenhagen ...	1018.9	21	SE	4	c	1017.3	0	19	-6	-	0	-	s	5	-	25	19					
Bornholm ...	1018.0	19	SE	4	c	1017.0	-1	18	-1	SE	3	-	s	1	Trace	21	16					
FRANCE, &c.																						
The Helder ...	1014.6	18	SSE	1	b	1013.2	-1	16	0	S	2	-	o	1	-	25	14					
C. Gris Nez ...	1012.0	25	SSE	2	b	1012.0	-1	22	0	S	1	*	o	1	-	25	21					
La Hève ...	1013.7	26	-	0	o	1014.0	?	?	?	SE	1	*	m	1	-	27	19					
Brest (St. Mathieu) ...	1012.4	31	SE	3	b	1012.3	+1	27	-1	ESE	3	*	b	5	-	32	25					
Rochefort (Ile d'Aix) ...	1011.9	28	ESE	3	b	1008.6	0	20	+1	E	3	*	b	5	-	34	19					
Biarritz ...	1009.2	36	E	2	b	1003.5	0	32	0	E	3	*	c	2	-	43	32					
Paris ...	1013.9	18	NNE	1	b	1014.0	0	5	-7	NE	2	-	b	*	-	25	5					
Belfort ...	1014.1	18	W	2	m	1017.5	*	4	-12	E	4	*	f	*	-	24	4					
Lyons ...	1014.3	14	WNW	6	b	1016.0	*	-1	-8	-	0	*	b	*	-	20	-1					
Nice ...	1003.5	37	E	4	c	1009.3	+4	33	-3	E	3	*	c	3	-	45	30					
Perpignan ...	1010.3	36	NW	3	b	1009.3	0	27	-9	WNW	1	S	bc	*	-	41	25					
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
SOUTHERN STATIONS.																						
Corunna ...	1003.5	52	NNE	1	r	1003.5	+2	48	+3	N	1	-	o	3	1	52	45					
Madrid ...	1008.0	43	-	0	o	1004.0	-1	41	+9	SW	1	-	r	*	6	43	32					
Lisbon ...	1003.5	52	SSW	2	o	99.55	-3	48	-2	NE	2	-	o	6	8	55	46					
Azores (Horta) ...	1013.9	*	W	4	o	1005.6	0	59	+4	NW	4	*	r	3	9	61	59					
Madeira ...	1013.5	59	W	2	r	*	*	*	*	*	*	NE	r	*	*	*	*					
Gibraltar ...	*	*	*	*	*	1013.1	+3	55	+1	SW	2	*	bc	1	-	59	*					
Malta ...	*	*	*	*	*	1019.3	+3	58	+1	-	0	-	b	3	-	64	48					
Limassol ...	*	*	*	*	*	1020.6	+1	55	-6	-	0	NW	bc	0	-	70	52					
Alexandria ...	1019.8	57	-	0	b	1019.1	+3	52	+2	-	0	-	b	*	-	70	48					
Cairo (Helwan) ...	1018.0	59	N	2	b	*	*	*	*	*	*	*	*	*	*	*	*					
24 HOURS ENDED 9 H. TO-DAY.																						
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day Hours.	TEMPERATURE.			Rain- fall. mm.	WEATHER.			SOUTH KENSINGTON.										
15 h. Yester- day.		9 h. To- day.			Max.	Min.	Min. on Grass.		Morn- ing.	After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.										
GREENWICH (Royal Observatory)		%	%	Hours.	°F.	°F.	°F.	mm.	bm.	bm.	bm. om.	Total.										
CITY (Bunhill Row) ...		66	76	0.0	36	21	18	-	bm.	bm.	bm. om.	Average Rate.										
WESTMINSTER (St. James's Park)		75	?	0.0	36	32	21	-	om.	o	om. o	Max. Rate.										
CAMDEN SQ. (British Rainfall) ...		72	94	0.0	35	21	20	-	m.	om.	om.	Joules.										
HAMPSTEAD (Reservoir) ...		*	?	0.0	40	23	14	0.3	of.	c. of	of.	Milliwatts.										
S. KENSINGTON (Museum Grounds)		*	83	0.0	35	27	17	-	om.	om.	bm. om.	Milliwatts.										
RICHMOND PARK ...		*	*	0.0	35	27	17	-	om.	om.	bm. om.	323										
												9.7										
												21.0										
Temperatures at Greenwich and Cam- den Square are from Glaisher screens.																						





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

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

**NO  
WARNINGS  
ISSUED**

Western Channel and Bay 11

Moderate or fresh Northerly winds. Fair, but with some snow showers Cold.

Light winds, indefinite in direction, then becoming more Northerly. Fair, cold, some mist

Same as 0 - 2a

Same as 2b - 5

Same as 0 - 2a

Mouth of Channel: Light winds and smooth sea. Fresh Easterly winds and moderate sea further South. Cloudy, some showers.

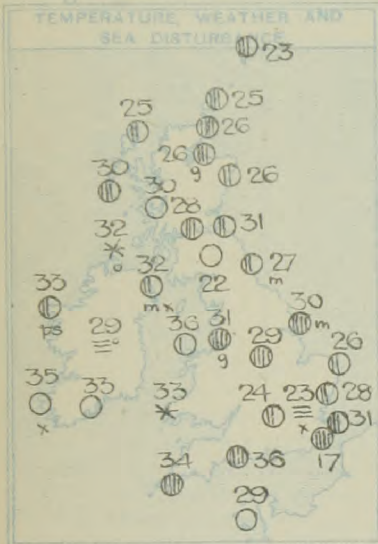
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF *Sunday, 4<sup>th</sup>* FEBRUARY, 1917.

## GENERAL INFERENCE.

The rise of pressure in the North-West is likely to bring about a return to more Northerly type of conditions



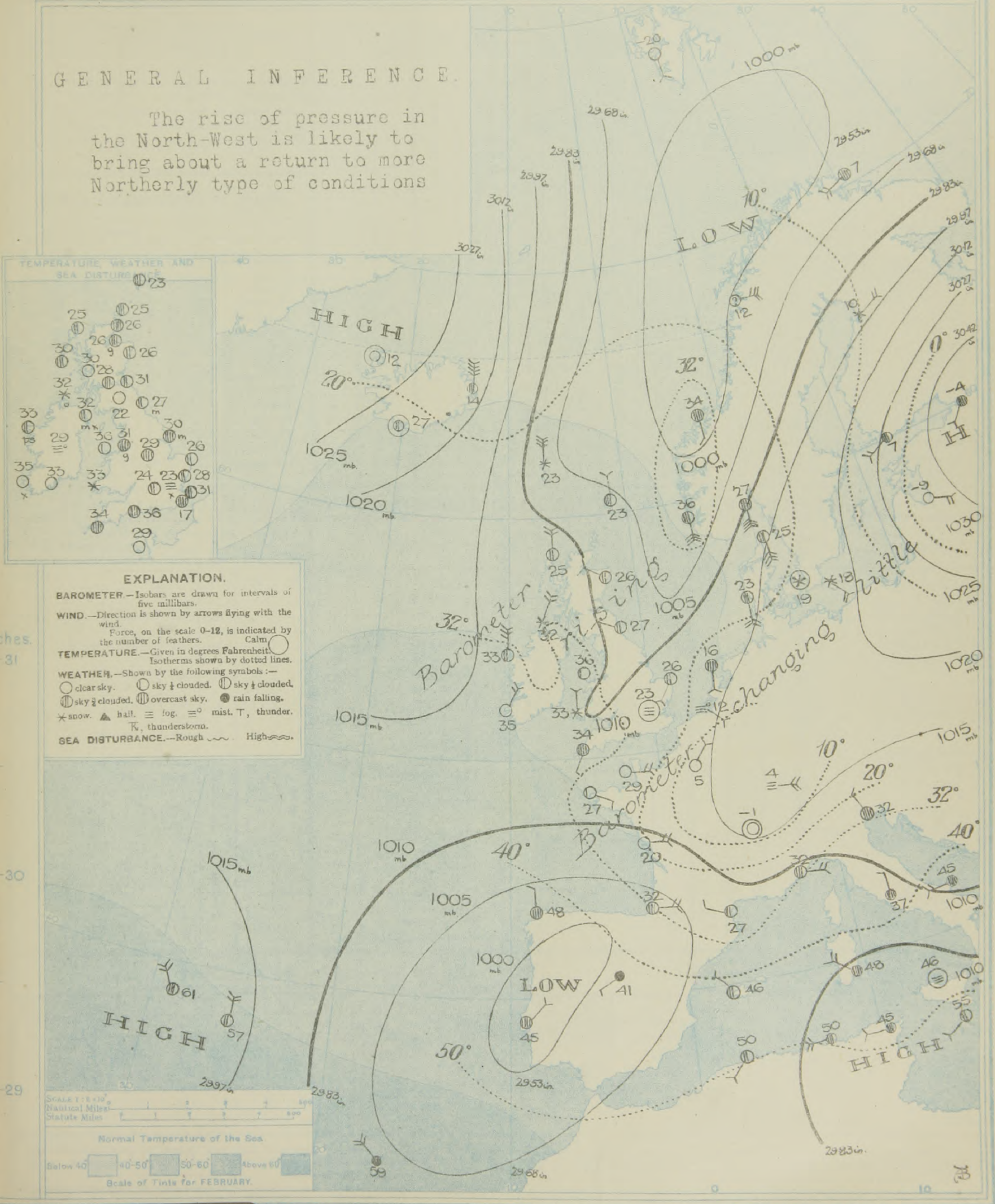
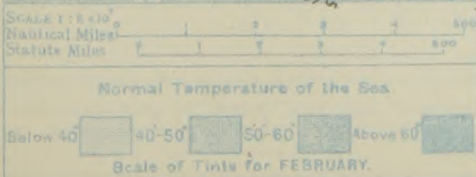
### EXPLANATION.

**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 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling.  
 \* snow. hail. fog. mist. T, thunder.  
**SEA DISTURBANCE.**—Rough High

Inches.  
31

30

29





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.					MORNING.								
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.			
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.		Max.	Min.			Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.				
RUSSIA 7 a.m. and 9 p.m. Local Time.																								
Archangel ...	1014.0	-15	SW	3	c	1019.1	+3.	-17		SW	2	c	-	-	-20	Isafjord ...	1029.2	18.	-1	NE	6	c		
Gorki ...	1018.7	-8	-	0	b	1023.5	+	-20		-	0	b	-	-	-13	Reykjavik ...	1022.1	14	-7	E	4	b		
Velieki Luki ...						1030.1	+	-27		-	0	f	-	-	-27	Vestmanna	1017.9	23	-7	N	3	b		
Hangö ...	1023.7	-6	-	0	b	1025.7	0	-8	+4	NNE	2	b	-	-	-13	Seydisfjord	1021.2	16	-5	N	3	s		
Riga ...	1024.7	-4	-	0	b	1028.4	+2.	-9		SSE	1	b	-	-	-11	Thorshavn	1003.3	29	+3	N	6	s		
Petrograd ...	1024.4	-15	W	1	b	1027.8	+2.	-17	-4	W	1	b	-	-6	-19									
Moscow ...	1017.2	-8	SE	2	b	1026.9	+3	-17	-11	NNW	1	b	-	-	-17									
Kiev ...	1016.2	9	NNE	3	b	1021.0	+4	0	-5	NE	3	o	-	-	0									
Kharkov ...	1010.9	10	W	3	s	1016.0	+5	5	-7	NE	2	b	-	-	5									
Kishinev ...	1013.7	7	-	0	b	1016.6	+1	3	-6	-	0	o	-	-	1									
Elisabetgrad ...	1012.8	7	NNW	2	o	1017.3	+2.	1	-6	N	3	o	-	-	3									
Nicolaiev ...	1011.8	7	-	0	b	1015.1	+	?	?	NNE	?	?	-	-	6									
Odessa ...	1013.5	9	NNE	3	b	1016.4	+2.	7	-3	ENE	3	o	-	-	5									
Tarkhankout...																								
Soukhoun ...																								
MEDITERRANEAN.																								
Venice ...	1009.0	32	NNE	1	o	1007.0	+	32	+7	NE	1	o	-	36	27	British Isles ...			b.		b.			
Pesaro ...	1008.4	30	-	0	o	1006.6	+	30	0	-	0	o	-	37	28	France ...			7		18			
Rome ...	1005.6	45	-	0	r	1000.9	+	39	+7	N	2	o	15	46	39	Norway ...			7		18			
Viesti ...	1009.2	43	SEW	6	o	1004.7	+	45	+4	SE	2	o	5	46	39	Sweden ...			7		17			
Brindisi ...	1009.7	48	SW	2	e	1006.4	+	48	0	S	2	o	10	50	46	Denmark ...			7		18			
Cagliari ...						1006.4	+	46	+1	NW	4	o	6	50	39	Holland ...			7		18			
Palermo ...	1006.8	50	-	0	o	1006.0	+	46	+5	E	4	r	8	55	44	Italy ...			7		20			
Tripoli ...						1009.4	+	42	-15	WSW	1	c	-	66	39	Egypt ...			6		18			
Algiers ...	1008.0	55	WNW	6	r	1009.2	+1	50	-2	WSW	3	r	18	59	48	Corunna...			7		16			
SWEDEN.																								
Hernösand ...	1023.9	-6	N	2	p	1020.7	+	10	+15	S	4	o	-	-	-	Madrid ...			8		16			
Stockholm ...	1021.7	9	E	2	c	1020.8	+	19	+14	S	2	s	-	-	-	Lisbon ...			7		21			
Wisby ...	1020.7	18	SSE	2	o	1023.3	+	18	+2.	S	2	c	-	-	-	Azores ...			8		17			
																Madeira ...			7		21			
																Malta ...			8		—			
																Limassol ...			6		—			

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 10h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 10h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	3	3	40	32	b.bcp	0	3.5	England, E.	Lowestoft ... ..	-	-	32	20	om	om	0.0
	Banff ... ..	1	1	37	29	b.cps. b	b.bcp. o	4.3		Felixstowe ... ..	-	-	32	20	om	om	0.0
	Montrose ... ..	*	*							Walton-on-Naze ... ..	-	-	31	21	b.cj	b.cj	0.2
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	34	25	o	o.c.b.c.b	0.5
	St. Andrews ... ..	*	*														
Eng. N.E.	Harrogate ... ..	-	1	33	28	os	s	0.0	England, S.E.	Margate ... ..	-	-	33	21	oz	o	0.0
	Skegness ... ..	-	1	33	19	om. c	o	0.0		Ramsgate ... ..	-	-	32	20	b.o.b.c.	c.o	0.8
Eng. N.W.	Morecambe ... ..	-	1	37	32	o	os. o	0.0		Hastings ... ..	-	-	32	18			0.0
	Southport ... ..	-	1	37	32	o	os. o	0.0		Eastbourne ... ..	-	-	32	18			0.0
Midlands.	Leamington Spa ... ..	-	-	37	17	omx	choc	0.0		Seaford ... ..	*	*	34	20	c	c	0.7
	Malvern ... ..	-	-	37	17	omx	choc	0.0		Brighton ... ..	-	-	36	26	b.	b	1.5
	Ross-on-Wye ... ..	-	-	37	17	omx	choc	0.0		Worthing ... ..	-	-	36	26	b.	b	1.5
Wales.	Rhyl ... ..	*	*	38	33	c	c	0.0		England, S.W.	Littlehampton ... ..	-	-	34	26	o	b.c.o
	Colwyn Bay ... ..	*	*	38	33	c	c	0.0	Bognor ... ..		*	*	36	24	f	f	0.0
	Llandudno ... ..	*	*	37	33	o	c. o	0.0	Bournemouth ... ..		-	-	36	24	f	f	0.0
	Aberystwyth ... ..	*	*	37	33	o	c. o	0.0									
	Tenby ... ..	*	*	37	33	o	c. o	0.0	Weymouth ... ..		*	*					
									Torquay ... ..	*	*						
									Paignton ... ..	*	*	38	25	o	o.of	0.0	
									Penzance ... ..	-	-	40	26	o.c	o	0.0	
									Newquay ... ..	-	-						
									Bude ... ..	-	-						
									Ilfracombe ... ..	-	-						
									Weston-s-Mare ... ..	-	-						

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

STATION.	14th Feb. 1917.		
	Sunrise.	Noon.	Sunset.
Yarmouth ...	7.33 7.31	12.7 12.7	4.44 4.43
Greenwich ...	7.36 7.34	12.14 12.14	4.52 4.54
Wick ...	8.15 8.12	12.26 12.26	4.27 4.40
Vasencia ...	8.19 8.17	12.55 12.55	5.31 5.33

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

STATION. Date and Hour.	Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.	
	Benson Feb. 1	Noon	Benson Feb. 1	16h	Benson Feb. 1	Noon	Benson Feb. 1	16h	Benson Feb. 1	Noon	Benson Feb. 1	16h	Benson Feb. 1	Noon	Benson Feb. 1	16h
Heights in Kilometres	15	12	15	16	15	12	15	16	15	12	15	16	15	12	15	16
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

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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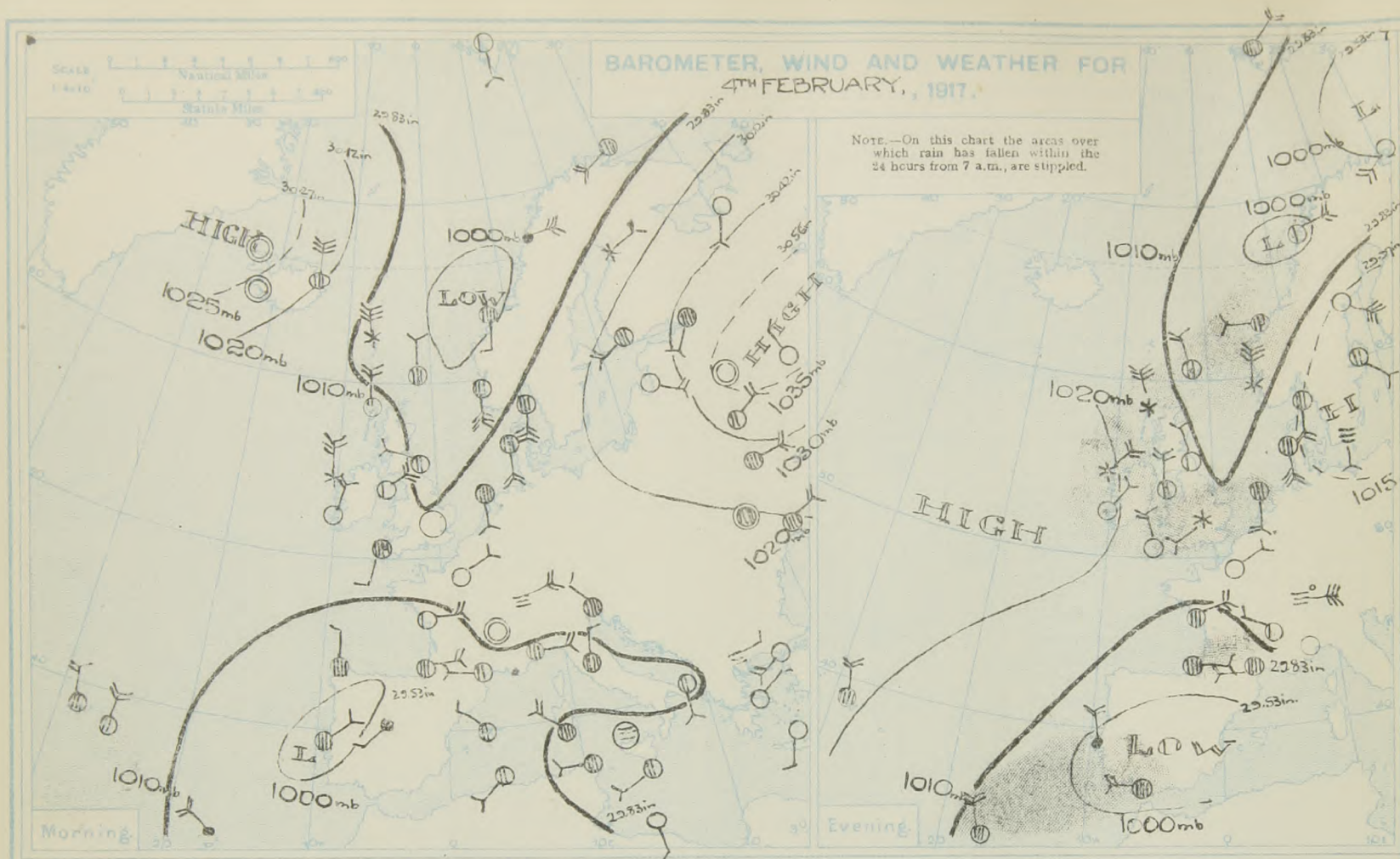
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No.36.

Monday

5th February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS					Sun- shine for Yester- day.					
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.								
			Dir.	Force		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	Dir.	Force					Max.	Min.	Morning.	Afternoon.	Night.						
BRITISH ISLANDS.																										
Lerwick ...	1005.8	25	NNW	3	bc.	1018.8	+14	32.	+9	NNE	4	-	bc	4	6	33	22.	csp. bc	bc sp.	bc sp.	*					
Deerness (Orkney) ...	1008.1	28	WNW	4	osp	1019.3	*	32.	+7	N	4	-	bc	3	2.	32	25	cps	c bosp	ops bc	2.3					
Stornoway ...	1014.6	33	NNW	5	bc sp	1023.2	+3	29	+4	N	4	-	b	4	4	34	24	bc sp	bc sp	bels sp	2.0					
Castlebay (Barra Isd.) ...	1013.9	30	NNE	4	b	1024.6	+2	34	+4	N	3	-	b	3	1	34	27	cs bcs	csp. b.	bosp. b	2.1					
Glasgow ...	1013.3	25	WNW	1	b	1021.5	+4	29	+1	NW	1	N	c	*	-	33	22	c sp. bc	c	b bc. cc	3.5					
Eskdalemuir ...	1015.7	17	NW	2	b	1020.5	+5	24	+2	N	4	-	b	*	-	27	12.	b bc.	off. b.	bc	3.5					
Malin Head ...	1017.3	28	NNW	4	cq	1023.3	+3	36	+4	N	4	N	bc	5	2.	36	28	bc sps	bc sps	bc.	3.7					
Blacksod Point ...	1020.3	33	NE	4	cs	1025.7	+5	35	+2	-	0	-	bc	2	2.	36	30	bca	cs	cps bc.	*					
Valencia ...	1021.2	34	NNE	2	b	1026.5	+2	30	-5	SE	1	-	bca	3	1	41	28	bx. b. bc	bc. b	c. bc. bc	3.1					
SCOTLAND.																										
Roche's Point ...	1019.5	35	NNW	2	b	1025.4	*	30	-3	NNW	2	-	b	2	1	38	28.	o. b.	b. bc. b.	b. os. b.	*					
Birr Castle ...	1018.8	31	W	1	s	1023.6	*	13	-16	N	1	-	c	*	0.1	31	12.	c.	c. os.	os. c	0.0					
Donaghadee ...	1015.1	30	NNE	4	bc sps	1021.0	+3	36	+4	NNE	4	N	bc sp	4	0.3	38	28	bc sps	bc sps.	bc sp.	*					
Liverpool (Bidston) ...	1013.7	30	W	2	b	1019.2	+3	24	-7	N	2	-	b	1	-	33	24	os. bc	bc	b	1.4					
Holyhead ...	1014.2	35	N	4	bc	1020.4	+5	34	-2	NE	6	NE	c	6	3	39	30	c. bps	bc cps	cps. c.	3.5					
Pembroke (St. Ann's) ...	1015.4	33	NNE	2	bc	1019.2	+2	35	+2	NNW	4	NW	cps	4	4	37	29	beps	c. bc.	bc. cps	1.5					
ENGLAND.																										
Scilly (St. Mary's) ...	1014.6	35	N	3	bzc	1019.8	+2	31	-3	N	2	-	bc	*	3	37	29	o. cr	ors. bcp.	b. ps. cb	0.8					
Falmouth ...	1012.6	32	N	2	bcm.	1015.4	*	34	+5	N	3	N	c	2	1	36	28.	b	b. bcm.	ogm. o. c	7.8					
Jersey (St. Aubin) ...	1012.6	32	N	2	bcm.	1015.4	*	34	+5	N	3	N	c	2	1	36	28.	b	b. bcm.	ogm. o. c	7.8					
Portland Bill ...	1010.3	37	WSW	3	c	1016.0	+3	27	-9	N	4	-	bc	3	1	38	27.	c. o	ops	bc.	*					
Dungeness ...	1011.0	33	SW	1	c	1011.3	+1	28	+11	N	4	-	o	3	1	34	20	beps	bc.	c. os. o.	*					
Dover ...	1013.1	30	-	0	m	1012.8	0	29	-2	N	6	N	s	4	2	37	28	c. bc	bc. cm	m. os	2.1					
IRELAND.																										
Wick ...	1009.3	26	WNW	2	o	1019.6	+4	33	+7	NNE	4	-	bc	3	3	34	20	c. cps	c. omps	a. beps	*					
Nairn ...	1012.1	24	W	2	c	1020.9	*	29	+3	WNW	2	-	eg	2	3	32	24	c. bc.	bc. eg	spg. os.	4.2					
Aberdeen ...	1011.9	22	W	3	b	1019.4	+7	24	-2	NNW	3	-	b	2	1	28	20	bosp	b.	b. os. b	6.7					
Leith ...	1014.1	30	NW	2	b	1019.8	+2	30	-1	NW	1	NW	b	2	-	31	25	bc. b	b.	bc. b.	*					
Tynemouth ...	1012.6	27	NNW	2	bm	1018.3	+4	23	-4	WNW	2	-	bm	3	-	32	21	cmfp.	bm.	bm.	*					
Spurn Head ...	1011.0	34	N	4	cpsl	1014.8	+1	33	+3	N	5	-	osq	5	0.2	34	29	bc	beps	cps	1.6					
Wales.																										
Yarmouth ...	1011.4	30	WNW	2	cf	1012.6	+2	30	+4	NNE	5	-	om	5	-	31	25	oms	os.	cm. om	0.0					
Clacton-on-Sea ...	1011.8	33	WNW	2	c	1013.3	+1	29	+1	NNW	3	NW	bc	2	0.3	36	28	bc. cm	cm	cm. osp.	1.0					
Nottingham ...	1012.4	32	NNE	1	c	1017.5	*	14	-15	NNE	1	-	bm	*	2	35	8	c. cm.	c. om.	c. ops. c	0.0					
Benson (Oxon.) ...	1012.1	32	WSW	1	s	1017.4	+4	2	-22	-	0	-	b	*	2	34	2	os	s.	os	*					
St. Farnborough ...	1011.9	33	W	2	s	1015.2	+2	20	+1	NNW	2	-	bc	*	6	36	19	mc. bas	oms	os. bc.	0.0					
London (Kew Obsv.) ...	1012.2	33	WSW	2	oms	1015.5	+3	24	+1	N	3	-	c	*	4	35	23	fabm. om	oms	oms. c	0.0					
NORTHERN EUROPE.																										
Spitsbergen ...	1007.2	-22	NNE	4	b	1007.7	+1	-36	-16	SE	1	*	b	*	*	-20	-36	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.45 a.m. 5th.  2400 metres N 7 metres per second. 2,600 " N'E 10 " " " 1,800 " NE'N 10 " " " 1,500 " NNE 11 " " " 1,200 " NNE 13 " " " 900 " N'E 14 " " " 600 " N'E 13 " " " 300 " N'E 11 " " " Surface. NNW 5 " " "								
Vardö ...	999.9	13	WSW	4	b	999.6	0	+25	+18	SW	4	-	o	4	*	18	7									
Bodö ...	999.3	18	E	4	b	999.3	+2	27	+15	WNW	2	-	c	2	*	18	10									
Christiansund ...	1007.9	30	W	2	c	1013.6	+3	28	-6	W	5	-	s	4	4	34	19									
Skudesnaes ...	1008.2	30	N	6	s	1017.9	+1	27	-9	E	3	-	o	3	?	36	28.									
Færder (Xtanta Fjord) ...	1014.9	27	SSE	4	o	1018.9	+3	25	-2	WNW	2	-	o	3	-	27	23									
The Scaw (Skagen) ...	1016.2	23	S	4	c	1019.3	+3	23	-2	SSE	3	-	o	2	-	25	23.									
Blaavands Huk ...	1012.8	19	S	5	c	1017.2	+4	19	-4	SSE	3	-	o	3	?	28	16.									
Copenhagen ...	1016.4	21	SSE	3	o	1019.3	+3	19	0	NE	2	-	b	*	-	23	14.									
Bornholm ...	1015.9	18	S	2	m	1016.8	+2	21	+3	SW	2	-	m	1	1	21	16									
FRANCE, &c.																										
The Helder ...	1011.3	25	S	3	c	1013.9	+3	21	+5	SE	1	-	o	1	4	27	18.	NOTES Glasgow Aurora at 19h. 44m.  Depths of snow lying Falmouth 1 cm. 7h. 5th. Nairn 8 cm. Aberdeen 8 cm.  18h. 44m. Castlebay 5 cm. Benson 4 cm.								
C. Gris Nez ...	1011.4	27	S	3	o	1010.7	0	31	+9	N	6	*	s	6	5	32	30.									
La Hève ...	1014.0	25	E	3	m	1011.7	*	28	?	N	3	*	s	2	-	30	25.									
Brest (St. Mathieu) ...	1008.8	33	ENE	3	c	1014.1	+2	27	+7	NE	4	*	b	*	-	41	19.									
Biarritz ...	1014.4	45	E	2	o	1012.6	+3	39	+7	NNE	3	*	o	2	6	52	36.									
Paris ...	1013.0	19	NE	2	b	1012.8	0	7	+2	-	0	-	c	*	-	28	5									
Belfort ...	1014.1	14	E	6	m	1013.5	*	-2	-6	E	2	*	m	*	-	23	-2.									
Lyons ...	1013.0	18	-	0	b	1012.2	*	21	+22	WNW	1	*	s	*	3	25	16.									
Nice ...	1008.6	37	W	2	o	1009.1	+1	39	+12	NW	1	-	o	*	-	41	32.									
Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
SOUTHERN STATIONS.																										
Corunna ...	1011.3	25	S	3	c	1013.9	+3	21	+5	SE	1	-	o	1	4	27	18.						NOTES Glasgow Aurora at 19h. 44m.  Depths of snow lying Falmouth 1 cm. 7h. 5th. Nairn 8 cm. Aberdeen 8 cm.  18h. 44m. Castlebay 5 cm. Benson 4 cm.			
Madrid ...	1011.4	27	S	3	o	1010.7	0	31	+9	N	6	*	s	6	5	32	30.									
Lisbon ...	1014.0	25	E	3	m	1011.7	*	28	?	N	3	*	s	2	-	30	25.									
Azores (Horta) ...	1005.8	43	NNW	4	r	1002.6	+3	46	-2	NNW	4	-	c	6	5	50	46.									
Madeira ...	1021.3	*	NNW	4	o	1012.6	+1	57	-2	N	7	N	bc.	5	4	59	52									
Gibraltar ...	1009.5	57	NNW	5	c	1012.6	+1	57	-2	N	7	N	bc.	5												
Gibraltar ...	1009.5	57	NNW	5	c	1012.6	+1	57	-2	N	7	N	bc.	5												
Malta ...	*	*	*	*	*	1011.4	0	57	+2	E	2	-	o	2	-	63	54									
Limassol ...	*	*	*	*	*	1019.9	+1	50	-5	-	0	-	o	4	-	64	43.									
Alexandria ...	1019.0	59	ENE	2	b	1019.1	-1	57	+2	-	0	-	b	0	-	70	54									
Cairo (Helwan) ...	1017.7	61	NE	3	b	1017.5	+3	55	+3	E	3	-	b	0	-	70	52									
74 HOURS ENDED 9 a. TO-DAY.																										
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.				Rain- fall.	WEATHER.			SOUTH KENSINGTON.													
		15 h. Yester- day.	9 h. To-day.		Max.	Min.	Min on Grass.	Morn- ing.		After- noon.	Night.															
GREENWICH (Royal Observatory)		%	%	Hours.	°F.	°F.	°F.	mm.	b3	bc. o. os	os. o. c	Vertical Component of Solar Radiation per square Centimetre during Yesterday.														
CITY (Bunhill Row) ..		81	75	1.3	36	22.	25	5	*	*	*															
WESTMINSTER (St. James's Park)		78	?	0.0	36	24	24	0.3	om	o. os	os. bc	Total. Average Rate. Max. Rate.														
CAMDEN SQ. (British Rainfall)		-	74	0.0	35	22	?	4	-	-	*															
HAMPTSTEAD (Reservoir) ..		*	?	0.0	33	18	11	?	ox	c. os	osx	Joules. Milliwatts. Milliwatts.														
S. KENSINGTON (Museum Grounds)		*	*	0.0	*	*	*	*	*	*	*															
RICHMOND PARK ..		*	*	0.0	*	*	*	*	*	*	*	300 9.0 25.0.														
		*	*	0.0	*	*	*	*	*	*	*															
		Temperatures at Greenwich and Cam- den Square are from Glaisher screens.																								





**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

Moderate or fresh Northerly winds, decreasing later in west ; fair, but some snow showers; cold.

Light or moderate Northerly to variable winds, fair; cold.

Moderate North-Easterly winds and moderate sea, fair

**FURTHER OUTLOOK.**

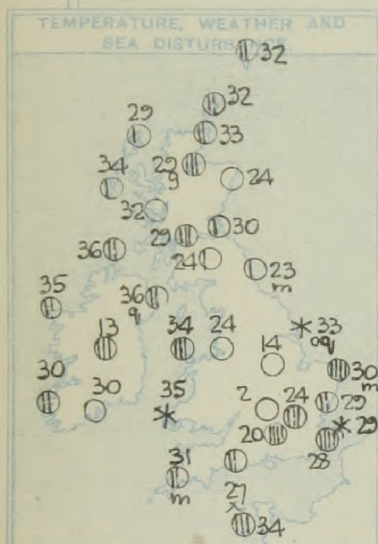


# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 5<sup>TH</sup>

FEBRUARY, 1917.

## GENERAL INFERENCE.

The anticyclone will continue to spread over from the west.



### EXPLANATION.

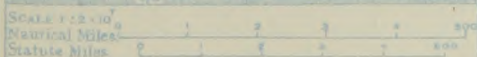
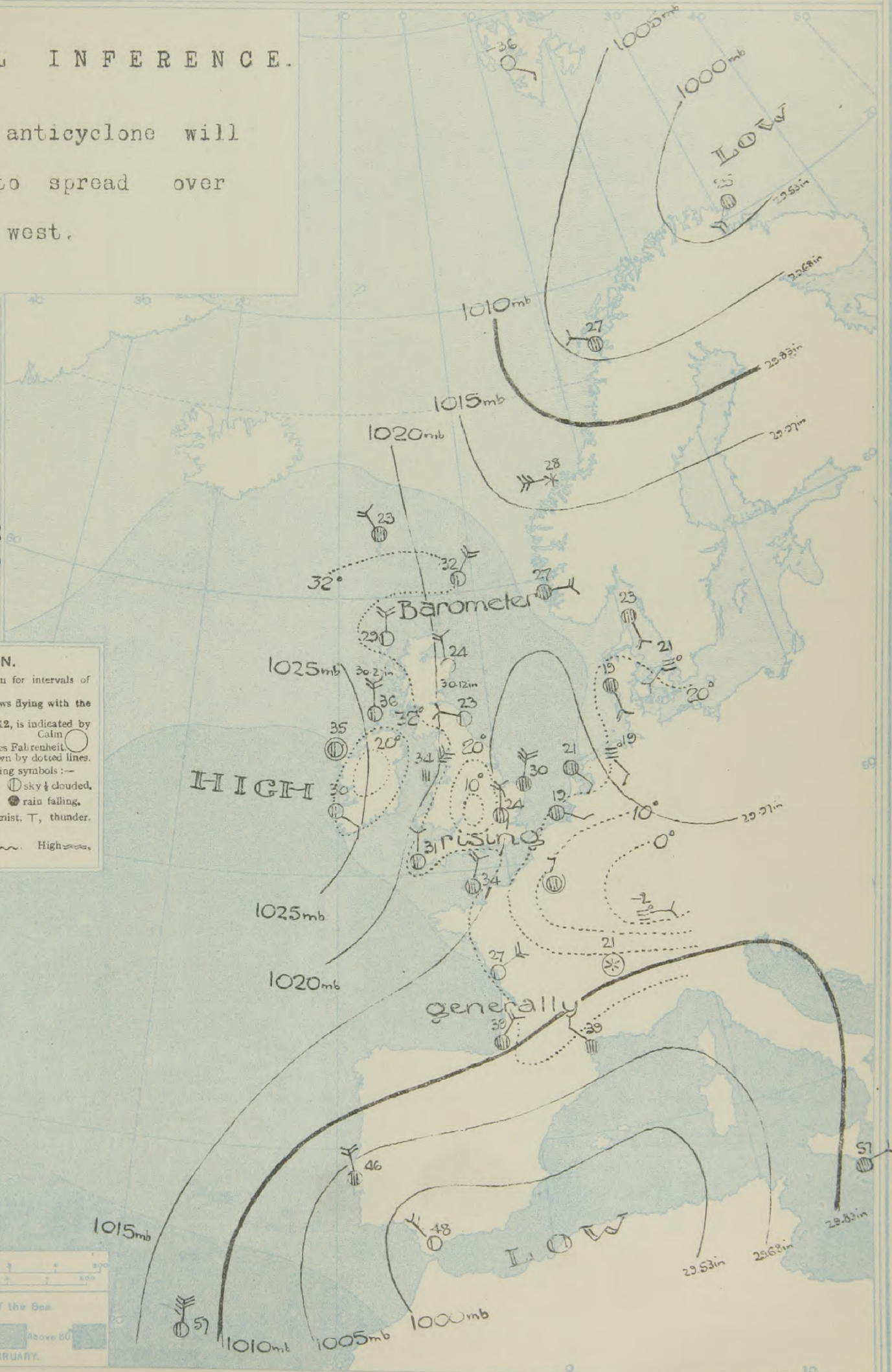
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

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

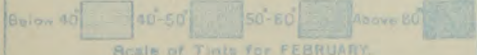
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**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 wavy. High wavy.



Normal Temperature of the Sea



Scale of Tints for FEBRUARY.



## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.			MORNING										
	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.	Weather.	Rain- fall. Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.			
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.					Max.	Min.		Dir.	Force 0-12.	Dry Bulb.	Change in 24 hours.		Dir.	Force 0-12.	
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1013.5	-20	SSW	2	b	1026.6	+2	-20	-3	SSW	2	b	-	* F	- F	Isafjord ...	1027.0	12	-6	-	0	b	
	Gorki ...	1029.3	-19	-	0	b	1030.3	?	-17	+3	NE	2	bc	-	* F	-20 F	Reykjavik ...	1022.3	12	-2	N	2	b	
	Velieki Luki ...	1034.0	-23	-	0	b	1036.8	*	-35	-8	-	0	b	-	* F	-35 F	Vestmanna ...	1022.9	27	+4	-	0	bc	
	Hangö ...	1025.0	+18	WSW	6	c	1028.3	0	+7	+15	WSW	3	c	?	* F	-13 F	Seyðisfjord ...	1022.6	14	-2	N	8	c	
	Riga ...	1030.1	-6	SE	1	b	1028.8	-2	-9	0	ESE	3	b	-	* F	-12 F	Thorshavn ...	1005.7	23	-6	N	6	s	
	Petrograd ...	1031.0	-6	S	2	o	1032.8	+2	-4	+13	SW	2	o	-	-4 F	-19 F								
	Moscow ...	1032.3	-15	NNW	2	b	1036.1	+3	-20	-3	N	1	b	-	* F	-22 F								
	Kiev ...	1024.6	+3	NE	3	o	1024.8	0	+1	+1	E	4	o	-	* F	0 F								
	Kharkov ...	1024.4	-2	NE	2	bc	1027.5	+1	-4	+9	NE	3	o	-	* F	-6 F								
	Kishinev ...	1019.4	+12	-	0	o	1018.9	0	+12	+9	-	0	o	-	* F	+1 F								
	Elisabetgrad ...	1021.2	+7	E	1	c	1022.1	0	+5	+4	E	4	o	-	* F	0 F								
	Nicolaiev ...	1021.1	9	NE	2	o	1020.0	*	14	-	NE	3	o	-	* F	3 F								
Odessa ...	1020.0	12	ENE	3	o	1020.3	0	14	+7	ENE	3	o	-	* F	7 F									
Soukhoum ...																								
MEDITERRANEAN.	Venice ...	1006.4	34	-	0	f	1010.6	*	32	0	NNW	1	o	-	36 F	32 F	British Isles ...			h. F		18 F		
	Pesaro ...						1011.3	*	39	+9	W	3	o	-	39 F	30 F	France ...			7 F		18 F		
	Rome ...	1004.0	45	-	0	r	1009.7	*	37	-2	N	1	o	5	48 F	37 F	Norway ...			7 F		18 F		
	Viesti ...	1004.3	45	SW	2	c	1010.8	*	45	0	W	3	o	1	50 F	43 F	Sweden ...			7 F		17 F		
	Brindisi ...	1005.6	32	NW	1	bc	1009.7	*	52	+4	S	2	bc	-	57 F	46 F	Denmark ...			7 F		18 F		
	Cagliari ...	1006.4	48	NNW	4	b	1010.4	*	48	+2	NW	3	o	-	52 F	41 F	Holland ...			7 F		18 F		
	Palermo ...	1007.3	50	ESE	2	b	1012.1	*	46	0	-	0	f	-	64 F	41 F	Italy ...			7 F		20 F		
	Tripoli ...						1012.2	*	55	+13	S	1	b	-	63 F	42 F	Egypt ...			6 F		18 F		
	Algiers ...	1010.3	52	SW	1	c	1008.2	0	50	0	SW	2	bc	10	57 F	48 F	Corunna... ..			7 F		16 F		
																		Madrid ...			8 F		16 F	
																		Lisbon ...			7 F		21 F	
																		Azores ...			8 F		17 F	
SWEDEN.	Hernösand ...	1014.1	16	S	4	o	1014.6	*	18	+8	SE	6	s	*	*	*	Madeira ...			7 F		21 F		
	Stockholm ...	1022.4	18	S	2	b	1021.6	*	18	-1	SSE	2	o	*	*	*	Malta ...			8 F		-		
	Wisby ...	1024.2	14	S	2	b	1021.1	*	16	-2	E	2	c	*	*	*	Limassol ...			6 F		-		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	8	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 10h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 10h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	1	—	36	27	b, bc	b	2.7	England, E.	Lowestoft ... ..	—	—	35	25	bc m	o m s	0.0
	Banff ... ..	4	—	31	23	bc	bc p s b	4.0		Felixstowe ... ..	—	—	35	25	bc m	o m s	0.0
	Montrose ... ..									Walton-on-Naze ... ..	—	—	37	24	bz	b, bc, c	1.5
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	—	—	37	24	bz	b, bc, c	1.5
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	Trace	—	33	24	b	b, bc, c	5.3	England, S.E.	Margate ... ..							
	Skegness ... ..	4	—	33	27	c	c, o s	1.8		Ramsgate ... ..							
Eng. N.W.	Morecambe ... ..									Hastings ... ..	Trace	—	34	27	o s	o	0.0
	Southport ... ..	4	—	32	28	om, o	o, bc, b	0.7		Eastbourne ... ..	Trace	—	38	22	o	o	0.0
Midlands.	Leamington Spa ... ..									Seaford ... ..	*	*					
	Malvern ... ..									Brighton ... ..							
	Ross-on-Wye ... ..									Worthing ... ..	—	—	38	25	bc	c	1.5
Wales.	Rhyl ... ..	8	Trace	37	25	s	s	1.2	England, S.W.	Littlehampton ... ..	—	—	35	28	o, bc	o	1.4
	Colwyn Bay ... ..	*	*	37	30	s	s, o	1.7		Bognor ... ..	*	*					
	Llandudno ... ..	*	*	36	29	s	b	2.4		Bournemouth ... ..	—	—	38	22	m	m	0.0
	Aberystwyth ... ..	*	*	35	32	s, o, c	bc, c	3.3		Weymouth ... ..	*	*					
	Tenby ... ..									Torquay ... ..							

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

5 <sup>th</sup> & 6 <sup>th</sup> February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.31	12.7	4.43
	7.29	12.7	4.45
Greenwich ...	7.33	12.14	4.54
	7.34	12.14	4.55
Wick ...	8.12	12.26	4.40
	8.10	12.26	4.42
Valencia ...	8.17	12.55	5.33
	8.15	12.55	5.35

## NOTES ON YESTERDAY'S WEATHER.

Temperature fell to an unusually low figure inland during the night, 8° at Nottingham and 2° at Benson. Some snow was experienced yesterday over most of the British Isles, though sunshine was plentiful in 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, unusual transparency; w, dew; x, hoar frost; z, dust-haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 37. Tuesday, 6th February.

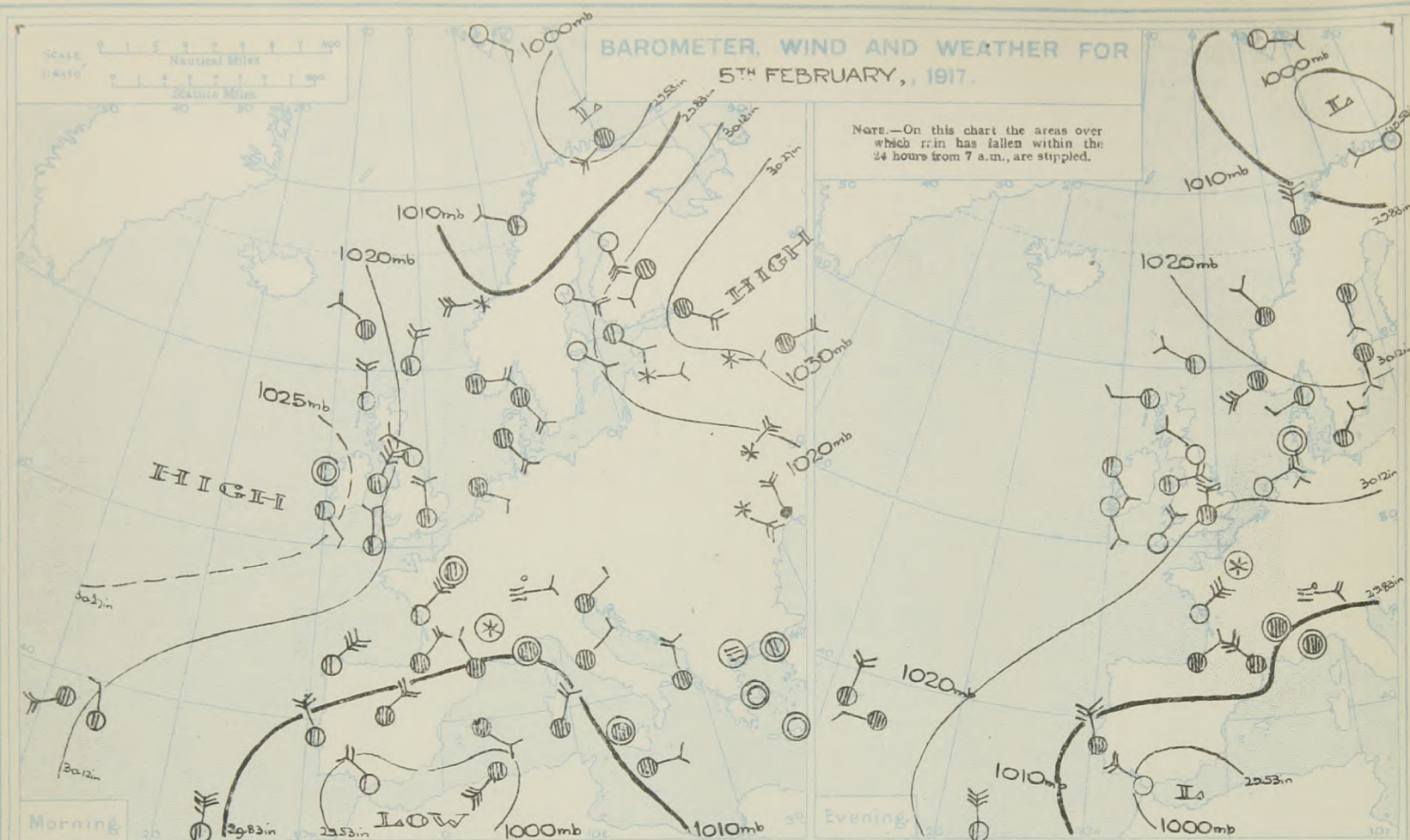
STATIONS.	YESTERDAY EVENING.					THIS MORNING.								PAST 24 HOURS.							Sun- shine for Yester- day.  Hours.									
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 2 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.												
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.										
BRITISH ISLANDS.	Lerwick	1021.8	28	NW	2	bc	1020.1	0	33	+1	SSE	2	S	0	2	33	28	bc	bc	bc. o.	0									
	Deerness (Orkney)	1023.0	30	W	1	b	1018.9	*	32	0	S	4	-	0	3	35	32	c	c. b	b. bc. o.	6.0									
	Stornoway	1022.7	28	W	1	bc	1018.6	-3	37	+8	S	5	-	og	5	37	24	bz	b. bc.	c. og	5.7									
	Castlebay (Barra Isd.)	1023.5	36	NNE	2	c	1017.9	-2	39	+5	SE	6	-	0	6	42	33	b	bc.	c. og. o.	6.6									
	Glasgow	1024.3	30	E	1	b	1022.6	-1	22	-7	E	1	-	0	*	37	19	c. bc. b	bc. b.	bz. bc.	6.4									
	Eskdalemuir	1025.2	21	-	0	b	1024.9	-1	10	-14	-	0	-	c	*	30	10	b	b.	b. bc. c.	7.6									
	Malin Head	1023.4	33	SSE	2	bc	1017.8	-3	31	-5	S	6	-	egx	5	40	27	bcv.	bcv.	egx.	5.9									
	Blacksod Point	1023.3	33	SSE	2	bc	1014.1	-4	36	+1	SSE	6	S	ogm	4	39	31	bc	bc.	bc. og.	*									
	Valencia	1024.0	33	SSE	2	b	1017.5	-2	39	+9	SSE	5	-	0	*	41	28	bc	bc. b	b. bc. o.	7.4									
	Roche's Point	1024.6	33	NNE	1	b	1020.6	*	38	+8	S	3	-	0	3	40	27	b	b.	b. bc. o.	*									
	Birr Castle	1024.9	21	W	1	c	1020.0	*	28	+15	SSE	2	-	0	*	32	13	c	c	c. o.	3.8									
	Donaghadee	1024.5	33	ESE	3	bc	1020.7	-1	32	-4	S	2	-	om.	2	39	28	bc	bc.	bc. om.	*									
	Liverpool (Bidston)	1024.2	28	NNE	1	b	1023.8	-2	17	-7	E	1	-	bm	1	31	16	b	c	bc.	7.3									
	Holyhead	1022.9	35	ENE	4	bc	1022.7	-2	25	-9	SE	2	-	b	1	39	23	bc	bc.	bc.	5.3									
	Pembroke (St. Ann's)	1023.4	32	NE	2	b	1022.7	-2	25	-10	ENE	2	-	b	2	36	24	bc	bc. b	b	7.6									
	Silly (St. Mary's)	1022.9	29	NNE	4	b	1021.3	-1	25	-6	N	1	-	b	*	Trace	37	24	cp. bc.	b	b	7.5								
	Falmouth	1018.0	35	N	3	o	1016.3	*	35	+1	NE	4	-	0	3	35	32	c. b	b. bc. o.	a. c. o.	6.5									
	Portland Bill	1019.9	30	NNE	4	b	1020.0	-1	29	+2	NE	4	NE	b	3	32	26	bc. b	b.	b.	*									
	Dungeness	1016.8	32	NNE	3	bc	1018.0	0	29	+1	NE	7	NE	b	5	35	27	o. c. o.	o. c.	b. bc.	*									
	Dover	1018.4	31	NE	3	o	1020.5	0	27	-2	NE	3	-	b	6	33	24	o	o.	o. c. b.	0.8									
	Wick	1023.4	24	WNW	2	b	1018.8	-1	29	-4	SW	2	-	0	3	35	17	b. ps.	bc.	bc. om.	*									
	Nairn	1023.4	22	-	0	b	1019.9	*	18	-11	-	0	-	cg	0	32	14	c. bc.	bc. b.	b. bc.	7.0									
	Aberdeen	1023.4	29	WNW	3	b	1022.0	-1	22	-2	WSW	1	-	bc	2	34	18	b. bc.	bc. b.	b. bc.	5.6									
	Leith	1023.6	32	SW	1	b	1022.0	0	25	-5	SW	1	W	c	2	36	23	bc. b	b.	b. bc.	*									
	Tynemouth	1023.3	31	NW	2	bm	1023.4	-1	23	0	WNW	2	-	cm	3	34	21	cm.	bm.	cm.	*									
	Spurn Head	1022.0	35	E	4	bcg	1023.4	0	29	-4	ENE	2	-	bc	4	36	26	bcg	bcg.	bcg.	4.8									
	Yarmouth	1019.8	34	E	4	o	1021.6	-1	33	+3	E	4	-	bc	4	34	29	ogps	ogps.	o. bcg.	0.0									
	Clacton-on-Sea	1019.2	31	NNW	2	bc	1020.7	0	31	+2	NNE	3	-	b	2	32	24	bc. ps.	bc. ps.	bc. b.	0.0									
	Nottingham	1023.3	30	N	3	b	1023.3	*	15	+1	-	0	-	f	*	33	11	bm	bm	b.	2.6									
	Benson (Oxon.)	1020.9	24	N	1	b	1022.4	0	7	+5	-	0	-	b	*	29	-4	b	b.	b.	*									
	St. Farnborough	1019.3	29	NNW	2	b	1020.2	-1	26	+6	NNE	3	-	b	*	31	16	bc. bc. b.	b. o. b.	b. o. b.	4.3									
	London (Kew Obsy.)	1019.9	32	N	4	om	1020.9	0	28	+4	NE	4	-	b	*	33	21	b. bc. b.	bc. om.	bc. om.	1.2									
NORTHERN EUROPE.	Spitsbergen	1009.6	-35	SE	2	b.	1005.1	+1	-33	+3	-	0	*	b.	*	-33	-47	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.25 am 6th.  2,100 metres NE'E 15 metres per sec. 2,400 " NE'E 15 " " 1,800 " NE'E 17 " " 1,500 " NE'E 15 " " 1,200 " NE'E 14 " " 900 " NE'E 14 " " 600 " NE'E 13 " " 300 " NE 16 " " Surface NNE 7 " "												
	Vardö	1000.7	14	W	2	b	1007.7	+5	+16	-9	NNE	2	-	0	5	19	14													
	Bodö	1004.3	23	N	5	o	1012.2	+2	23	-4	N	4	-	c	2	27	13													
	Christiansund	1015.1	28	NW	3	o	1019.5	+3	25	-3	NW	2	-	c	5	14	30													
	Skudesnaes	1020.8	28	SW	5	o	1019.4	0	27	0	-	0	-	0	2	28	21													
	Færder (Xtania Fjord)	1019.0	25	WSW	5	bc.	1017.5	+2	27	+2	NW	2	-	b	1	30	25													
	The Scaw (Skagen)	1022.3	19	SW	1	bc.	1017.6	-1	30	+7	WNW	2	W	c	2	30	16													
	Blaavands Huk	1022.0	21	SSE	2	b.	1022.4	0	30	+11	WSW	1	-	0	1	30	16													
	Copenhagen	1023.3	18	N	1	m	1022.0	-2	18	-1	WSW	3	-	m.	*	21	14													
	Bornholm	1020.8	21	NNE	2	c	1021.5	-1	23	+2	W	5	W	b	1	23	18													
FRANCE, &c.	The Helder	1020.2	25	NE	3	b.	1023.1	0	21	0	NE	3	-	b	1	Trace	18	GALES Duration and Extreme Force in British Islands.												
	C. Gris Nez	1016.2	27	E	3	o	1017.3	0	18	-13	E	5	*	m.	6	7	30													
	La Hève	1014.1	28	NE	5	o.	1017.6	*	32	+4	NE	3	*	m.	2	30	16													
	Brest (St. Mathieu)	1020.6	34	NNE	4	c.	1014.0	-3	34	0	NE	3	*	0	3	39	28													
	Rochefort (Ile d'Aix)	1015.3	32	NNE	6	b.	1011.5	-1	23	-4	NE	6	*	c.	*	39	21													
	Biarritz	1012.0	39	NE	2	o	1008.4	-3	27	-12	E	1	*	0	2	43	27													
	Paris	1014.7	23	NE	1	o	1015.8	0	7	0	NNE	2	-	b	*	25	7													
	Belfort	1014.0	23	E	2	m.	1013.5	*	18	+20	NW	6	*	m.	*	27	-2													
SOUTHERN STATIONS.	Lyons	1014.3	27	N	1	o	1010.3	*	21	0	NNW	3	*	3	4	31	20													
	Nice	1007.7	24	-	0	o.	1001.5	-2	44	+1	E	5	*	0	6	45	24													
	Perpignan	1010.3	39	NW	4	o	1004.8	-5	34	-5	NW	4	NE	0	*	45	32													
	Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*													
	Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*													
	Madrid	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*													
	Lisbon	1007.0	50	NNW	5	b	1010.0	+1	39	-7	NNW	4	-	b	*	54	39													
	Azores (Horta)	1024.6	*	N	4	c.	*	*	*	*	*	*	*	*	*	*	*													
LONDON OBSERVATIONS.	Madeira	1016.7	57	N	6	bc	1019.0	0	50	-7	N	5	NE	b	5	57	50	SOUTH KENSINGTON.  Vertical Component of Solar Radiation per square Centimetre during Yesterday. <table> <tr> <th>Total.</th> <th>Average Rate.</th> <th>Max. Rate.</th> </tr> <tr> <td>Joules.</td> <td>Milliwatts.</td> <td>Milliwatts.</td> </tr> <tr> <td>339</td> <td>10.1</td> <td>23.5</td> </tr> </table> Temperatures at Greenwich and Cam- den Square are from Glaisher screens.				Total.	Average Rate.	Max. Rate.	Joules.	Milliwatts.	Milliwatts.	339	10.1	23.5
Total.	Average Rate.	Max. Rate.																												
Joules.	Milliwatts.	Milliwatts.																												
339	10.1	23.5																												
Gibraltar	999.0	53	NW	4	b	1000.0	*	46	-2	NW	3	*	b	4	58	42														
Malta	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*														
Limassol	*	*	*	*	*	1019.9	+3	54	+4	-	0	-	b	4	64	43														
Alexandria	1019.5	61	NE	2	c	1019.5	+1	63	+6	ENE	1	-	b	0	72	57														
Cairo (Helwan)	1016.4	64	NE	4	o	1017.6	+3	52	-3	N	1	-	b	*	77	50														
LONDON OBSERVATIONS.	GREENWICH (Royal Observatory)	%	%	Hours.	° F.	° F.	° F.	mm.	Morn- ing.	After- noon.	Night.	SOUTH KENSINGTON.  Vertical Component of Solar Radiation per square Centimetre during Yesterday. <table> <tr> <th>Total.</th> <th>Average Rate.</th> <th>Max. Rate.</th> </tr> <tr> <td>Joules.</td> <td>Milliwatts.</td> <td>Milliwatts.</td> </tr> <tr> <td>339</td> <td>10.1</td> <td>23.5</td> </tr> </table> Temperatures at Greenwich and Cam- den Square are from Glaisher screens.					Total.	Average Rate.	Max. Rate.	Joules.	Milliwatts.	Milliwatts.	339	10.1	23.5					
	Total.	Average Rate.	Max. Rate.																											
	Joules.	Milliwatts.	Milliwatts.																											
	339	10.1	23.5																											
	CITY (Bunhill Row)	79	83	0.2	32	23	21	-	c. o	c. c	bc. b.																			
	WESTMINSTER (St. James's Park)	97	?	0.2	34	24	24	-	om.	om.	om. bm.																			
	CAMDEN SQ. (British Rainfall)	91	?	0.4	33	23	19	Trace	c	c.	*																			
	HAMPSTEAD (Reservoir)	*	?	2.2	31	17	11	-	bc. o. s	ex	bcx																			
	S. KENSINGTON (Museum Grounds)	*	*	0.8	35	25	7	Trace	o	om	b																			
	RICHMOND PARK	*	*	*	*	*	*	*	*	*	*																			

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





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

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

NO  
WARNINGS  
ISSUED.

Western Channel and Bay 11

0 } Southerly winds, light to fresh, strong locally, some snow or sleet; less cold.

1 } Wind between South and South-West, light or moderate; mostly fair; cold.

3 } Wind between East and North-East, light or moderate; fair generally; cold.

6 } Same as No. 0.

7 } Wind light, mainly Southerly; fair generally; rather less cold.

9 } Southerly and South-Westerly winds, light or moderate, fresh or strong locally; much cloud; some sleet or snow; temperature rising somewhat.

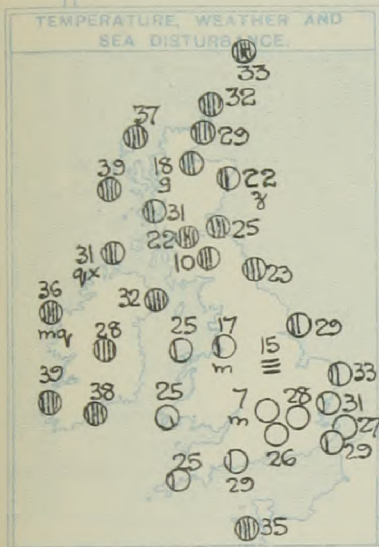
11 } Winds mainly East or North-East, light or moderate, sea moderate; mostly fair.

#### FURTHER OUTLOOK.



# GENERAL INFERENCE.

The depression on the Atlantic seems likely to move north-north-eastward without affecting the general condition of the weather over England.



## EXPLANATION.

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

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

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

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

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

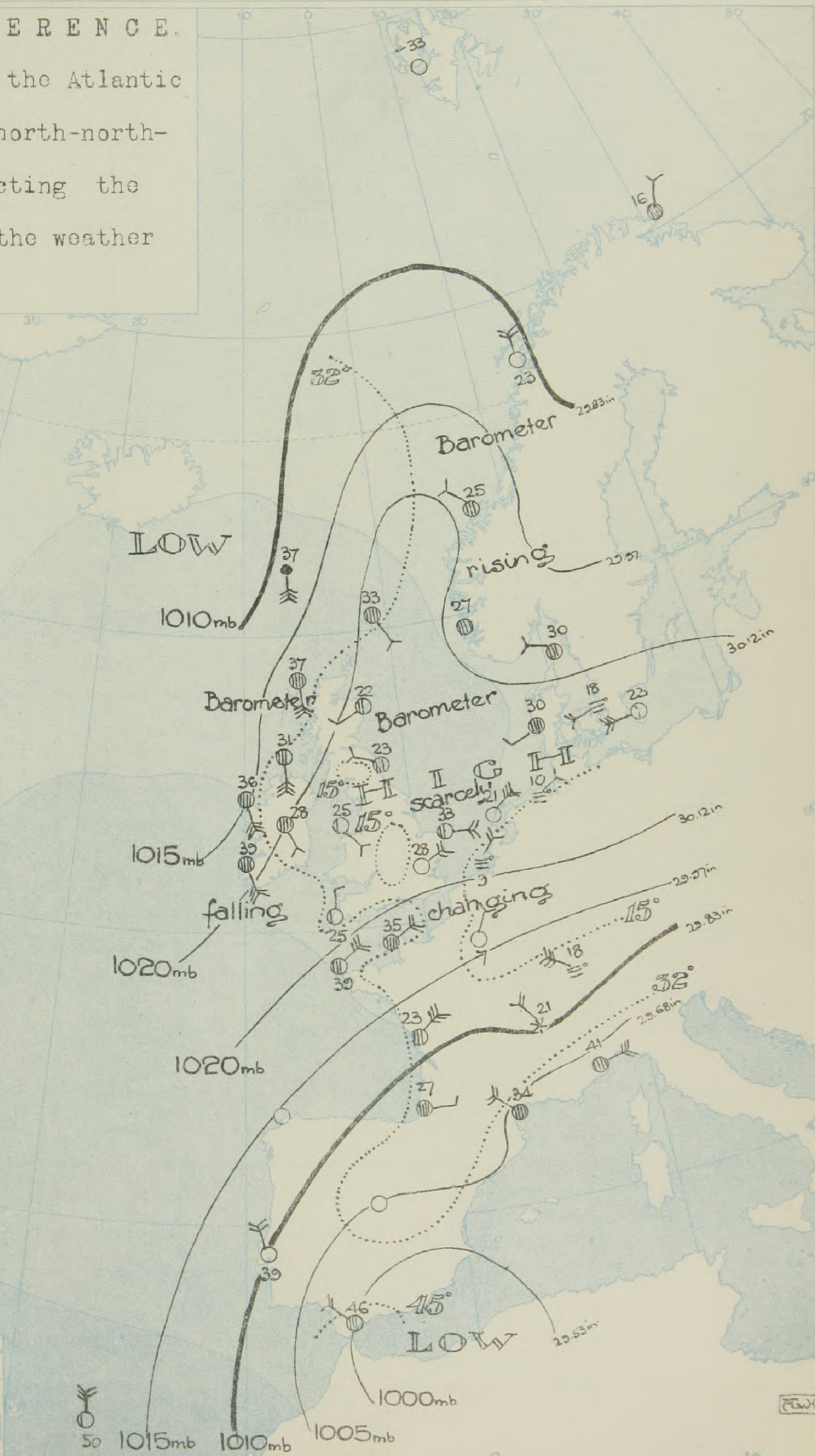
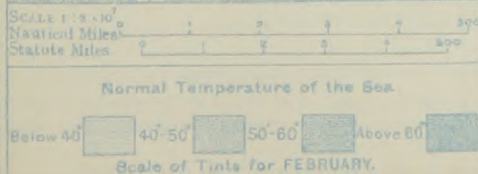
○ clear sky. ○ sky & clouded. ○ sky & clouded.  
 ○ sky & clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 ⚡, thunderstorm.

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

Inches  
31

30

29





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING			
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		Wind.	Force 0-12.	Weather.	Rain fall, Milli- metres.	Temp.		Barom. Milli- bars at M.S.L.	Temp. °F.
			Dir.	Force 0-12.			Dry Bulb.	Change in 24 hours.					Max.	Min.		
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	10263	-9	ESE	3	b	10204	+3	+20	ESE	3	S	-	-18	10212	23
	Gorki ...	10232	-11	SE	1	o	10253	-6	+29	ESE	2	S	-	-35		
	Veliki Luki ...	10257	+1	SSE	6	c	10231	-1	0	SSE	2	bc	-	-4		
	Hangö ...	10235	-2	ESE	4	o	10212	-1	0	ESE	2	S	1	-20		
	Riga ...	10341	-9	SE	3	c	10304	-3	-11	SE	4	o	-	-12		
	Petrograd ...	10393	-8	ESE	1	c	10349	-2	-6	E	3	o	-	-20		
	Moscow ...	10215	+7	E	3	s	10162	-2	+10	ESE	3	S	4	+1		
	Kiev ...	10256	+7	E	3	o	10275	+1	-4	NE	3	o	-	-6		
	Kharkov ...	10127	+23	SSW	2	S	10167	+1	+19	-	0	o	-	+10		
	Elisabetgrad ...	10197	+16	ESE	2	o	10130	-5	+21	SE	4	S	1	+3		
	Nicolaiev ...	10180	25	ESE	2	o	10115	-	34	SE	2	Y	1	9		
	Odessa ...	10157	26	ESE	4	S	10128	+2	32	NNW	4	Y	3	14		
MEDITERRANEAN.	Tarkhankout ...	10193	48	-	0	c	10211	+2	50	NNE	1	Y	-	?		
	Soukhoum ...	10153	34	-	0	b	10157	-	30	NE	1	o	-	37	28	
	Venice ...	10153	34	-	0	b	10157	-	30	NE	1	o	-	37	28	
	Pesaro ...	10124	46	SE	1	r	10157	-	32	SSW	4	o	-	39	27	
	Rome ...	10156	45	-	0	o	10122	-	45	NE	1	o	10	52	37	
	Viesti ...	10144	48	N	2	o	10149	-	48	NW	5	o	-	48	43	
	Brindisi ...	10120	52	-	0	o	10164	-	50	N	3	c	24	55	48	
	Cagliari ...	10120	52	-	0	o	10077	-	50	NNE	3	o	-	54	?	
	Palermo ...	10019	63	S	2	c	10116	-	50	-	0	o	-	61	41	
	Tripoli ...	10019	63	S	2	c	10055	-	63	-	0	o	-	68	55	
SWEDEN.	Algiers ...	10157	18	SE	6	b	9993	+1	59	SW	6	o	-	64	50	
	Hernösand ...	10148	16	SE	2	bc	10144	-	12	SE	4	b	-	-	-	
	Stockholm ...	10187	18	-	0	S	10199	-	18	ESE	2	o	-	-	-	
	Wishy ...	10187	18	-	0	S	10190	-	14	E	2	S	-	-	-	

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	h. 7	b. 18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine			
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.				
	Mm.	Mm.	F.	F.					Mm.	Mm.	F.	F.						
Scotland.	Oban ... ..	1	-	38	25	b	b	6.6	England, E.	Lowestoft ... ..	4	Trace	35	32	ops	o c o	0.0	
	Banff ... ..	Trace	Trace	31	22	b c p s	b c c	2.5		Felixstowe ... ..	1	1	33	26	os	os	0.0	
	Montrose ... ..									Walton-on-Naze ... ..								
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	1	-	32	24	o. c	o. c b c b	1.1	
	St. Andrews ... ..	-	-	38	24			7.1										
Eng. N.E.	Harrogate ... ..	-	-	30	15	b	b	7.4	England, S.E.	Margate ... ..	1	-	34	28	ops	o	0.0	
	Skegness ... ..	1	Trace	35	19	ops. c	b	2.4		Ramsgate ... ..			32	25	os. bc	bc	2.6	
Eng. N.W.	Morecambe ... ..	-	-	30	17	-	-	6.8		Hastings ... ..	2	-	32	26	os bc	bc	2.6	
	Southport ... ..	3	-	32	19	b	b	6.6		Eastbourne ... ..	2	1	33	26	os bc	bc	2.6	
										Seaford ... ..	*	*						
Midlands.	Learnington Spa ... ..									England, S.W.	Brighton ... ..	3	-	33	25	o. c	c. o	2.5
	Malvern ... ..										Worthing ... ..	3	-	33	23	c. b	o	3.7
	Ross-on-Wye ... ..	1	-	33	11	CX S	bex	3.9			Littlehampton ... ..	6	-	32	23	o.	bc	3.6
									Bognor ... ..		*	*						
									Bournemouth ... ..		-	-	32	21	b	b	7.5	
Wales.	Weymouth ... ..								England, S.W.	Torquay ... ..	*	*	34	24	b	b	7.3	
	Colwyn Bay ... ..	*	*	35	30	bc	bc	6.4		Paignton ... ..	*	*	40	32	o. c	bc. b	6.2	
	Llandudno ... ..	*	*	36	30	b	b	6.8		Penzance ... ..	2	-	37	28	b	b	6.6	
	Aberystwyth ... ..	*	*	34	21	bc. b	bc. c	7.5		Newquay ... ..	1	Trace	38	25	b	b	7.8	
	Tenby ... ..									Bude ... ..	-	-						
										Ilfracombe ... ..	-	-	?	?	b	b	7.0	
										Weston-s-Mare ... ..	-	-						

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

6 <sup>th</sup> Feb. 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	7 29	12 7	4 45
Greenwich ...	7 27	12 7	4 47
Wick ...	7 31	12 14	4 57
Valencia ...	8 10	12 26	4 42
	8 8	12 26	4 44
	8 15	12 55	5 35
	8 13	12 55	5 37

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 32° over considerable portions of the Kingdom. At Benson the minimum temperature in the screen was as low as four degrees below zero. Snow showers fell in the east of England, but much sunshine was recorded 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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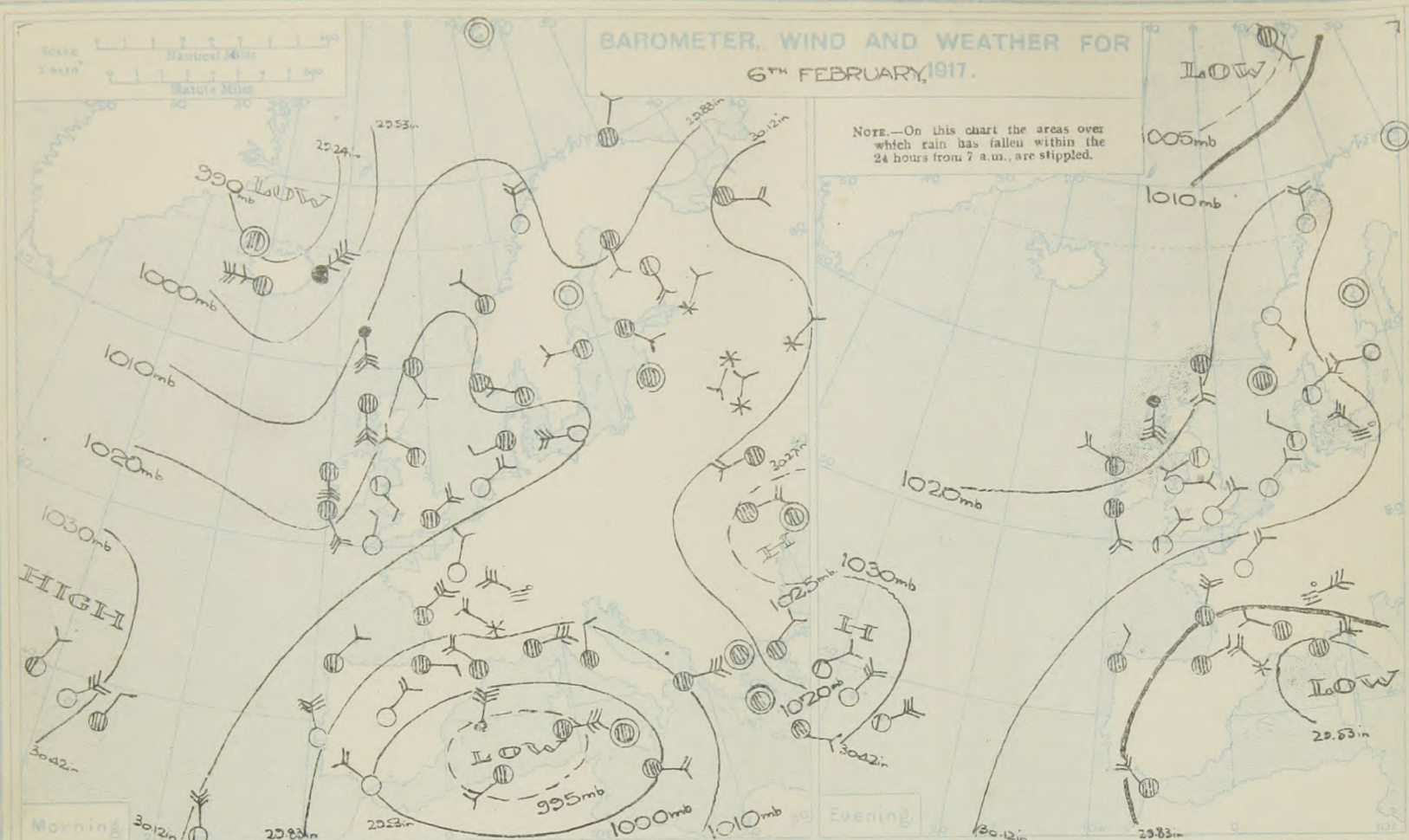


## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 38.

Wednesday  
7th February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.				
			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.		
BRITISH ISLANDS.																						
Lerwick	1017.8	38	S	4	o	1019.8	+3	39	+6	WNW	3	W	bc	2	2	39	28	c.o.	o.	om.b.	*	
Deerness (Orkney)	1017.3	35	SSW	5	ou	1022.0	*	37	+5	WSW	3	-	b	3	3	37	23	o	ou	ocp.b.	0.0	
Stornoway	1015.2	38	S	7	ou	1024.0	+3	35	-2	W	3	-	b	3	4	38	29	og	ou	ocp.b.	0.0	
Castlebay (Barrisd.)	1014.2	40	SSW	6	op	1026.8	+3	38	-1	-	0	W	bc	2	3	42	37	c	op	ocp.b.	0.0	
Glasgow	1023.5	31	S	2	og	1026.5	+2	33	+11	SW	1	-	o	*	0.1	34	22	og	c.og.	c.b.osp	0.0	
Esksdalemuir	1025.3	22	-	0	o	1028.1	+2	27	+17	-	0	-	o	*	0.2	27	10	c.o	o	o.s.o.	0.0	
Malin Head	1017.8	34	S	6	omg	1026.2	+2	42	+11	NW	3	NW	bc	3	0.2	42	30	bcg	omg.	bc.	1.0	
Blacksod Point	1017.3	44	NW	4	cm	1028.4	+2	40	+4	NW	1	NW	bc	3	1	44	34	bcg	cp	bc.	*	
Valencia	1022.2	39	SSE	4	o	1029.8	+2	31	-8	NE	1	-	b	4	-	42	31	o.c.	ou.	o.c.b.	0.1	
Roche's Point	1022.7	39	SE	3	b	1029.0	*	36	-2	NNW	2	-	b	2	0.1	41	31	bc	bc.b	b.o.b	*	
Birr Castle	1022.6	33	SSE	1	c	1028.8	*	26	-2	-	0	-	m	*	-	38	26	c	c	og	2.8	
Donaghadee	1022.3	32	SW	3	bc.m	1026.7	+1	33	+1	W	3	W	cm	2	Trace	39	30	cm	bc.m.	om.omp	*	
Liverpool (Bidston)	1025.6	28	ESE	1	b	1029.3	+1	17	0	SE	2	-	bm.	1	-	32	17	bm.	b.	b.	5.1	
Holyhead	1024.0	31	E	2	b	1027.7	+1	33	+8	ESE	3	-	om.	2	Trace	40	24	b.	b.	bc.om	8.0	
Pembroke (St. Ann's)	1023.8	32	NE	1	b	1028.9	+2	27	+2	NE	1	-	bc	2	-	35	22	b	b	b.b.	8.0	
SCOTLAND.																						
Scilly (St. Mary's)	1021.7	31	NNE	2	b	1026.9	+3	28	+3	N	1	-	b	*	-	38	24	b	b	b.	8.2	
Falmouth	1016.2	37	NE	5	b	1022.7	*	36	+1	NE	4	-	b	3	-	37	31	bc.m.	bc.b	b.	3.5	
Jersey (St. Aubin)	1019.7	31	NE	5	b	1024.7	+3	28	-1	NE	4	-	b	4	-	31	28	b	b	b.	*	
Portland Bill	1019.6	34	ESE	5	b	1023.6	+3	34	+5	NE	4	-	b	4	-	36	32	bc	bc	c.b.	*	
Dungeness	1019.6	34	ESE	5	b	1023.6	+3	34	+5	NE	4	-	b	4	-	36	32	bc	bc	c.b.	*	
Dover	1021.2	33	NE	5	b	1027.4	+2	31	+4	NE	3	-	b	4	-	35	26	c.b	b	b.	8.4	
Wick	1016.6	35	SW	4	o	1023.0	+4	36	+7	NW	2	-	bc	3	1	36	28	omg	omg	omp.b.	*	
Nairn	1018.1	33	SW	2	ou	1024.5	*	35	+7	W	1	-	cg	1	1	35	18	c.b.g.m.	bcg.o	og.	0.0	
Aberdeen	1021.2	30	SSW	3	bc	1024.5	+2	35	+13	WSW	1	-	o	2	-	35	22	bcg	bcg	bc.c.o	0.4	
Leith	1022.6	32	SW	1	c	1025.9	+1	34	+9	W	1	-	o	2	0.1	35	23	c.b.c.	bc.c.	c.s.o	*	
Tynemouth	1024.6	33	SW	2	bc.m	1027.1	+1	25	+2	SW	2	-	om.	3	-	35	22	om	om	om.	*	
Spurn Head	1025.0	34	SSE	1	bcv	1028.8	+1	30	+1	N	2	-	bm.	2	-	38	28	b	b	bm.	10.1	
Yarmouth	1023.9	34	E	4	b	1027.7	+3	33	0	ESE	3	-	bm.	3	-	35	32	bc.b.	b.	b.	8.5	
Clacton-on-Sea	1022.8	32	NNE	3	b	1028.2	+5	25	-6	NNE	2	-	b	2	-	36	24	b	b.b.	b.	7.9	
Nottingham	1025.8	27	E	1	b	1029.4	*	18	+3	-	0	-	bc	*	-	35	11	bc.m.	bm	bm	2.6	
Benson (Oxon.)	1023.4	22	NE	1	b	1029.3	+2	13	+6	-	0	-	bc	*	-	33	5	b	b	bm	*	
Sth Farnborough	1022.3	29	NE	3	b	1028.1	+3	10	-16	N	2	-	bm	*	-	34	9	bm.	bm	bm	8.0	
London (Kew Obs.)	1023.1	31	NE	3	bm	1028.5	+3	16	-12	-	0	-	bm	*	-	34	16	b.bm	bm	bm	4.9	
NORTHERN EUROPE.																						
Spitsbergen	1004.8	-33	SSE	1	c	1008.7	+3	-29	+4	SSE	1	*	b.	*	*	-29	-44	UPPER AIR.				
Vardø	1014.4	16	-	0	b	1011.0	-3	+4	+3	W	4	-	bc	3	*	19	16	South Farnborough.				
Bodø	1022.1	18	N	4	c	1018.1	-3	23	0	E	4	-	c	2	1	23	14	Pilot Balloon Ascent at 7.20 a.m. 7th				
Christiansund	1024.0	25	SE	1	b	1019.3	-2	30	+5	SSE	4	-	o	4	-	30	21	3,200 metres E.N. 3 metres per sec.				
Skudesnaes	1024.2	32	-	0	o	1026.4	-1	32	+5	SSE	7	-	o	5	-	32	25	3,000 " NE'E 7 "				
Færder (Xantiafjord)	1026.0	25	N	3	b	1029.3	0	19	-8	ESE	1	-	m	1	-	27	18	2,700 " NE'E 8 "				
The Scaw (Skagen)	1023.9	25	NE	2	b	1029.5	+2	21	-9	-	0	-	b	0	-	32	18	2,400 " ENE 5 "				
Blaavands Huk	1024.7	28	NW	1	b	1030.1	+2	18	-12	SE	1	-	c	1	-	34	14	2,100 " ENE 6 "				
Copenhagen	1022.0	25	NW	3	m	1029.5	+2	14	-4	-	0	-	m	*	Trace	27	12	1,800 " NE 8 "				
Bornholm	1021.1	27	NNW	5	m	1026.7	+2	21	-2	NNE	5	-	b	2	Trace	27	19	1,500 " NE'E 10 "				
FRANCE, &c.																						
The Helder	1025.1	25	NE	2	b	1029.1	+2	23	+2	-	0	N	m	0	-	25	19	1,200 " NE'E 10 "				
C. Gris Nez	1019.8	30	ESE	5	b	1025.1	+3	23	+5	E	5	*	b	5	-	32	18	900 " NE'E 10 "				
La Hève	1016.7	23	NE	4	m	1023.1	*	25	-7	NE	5	*	b	1	-	36	20	600 " ENE 10 "				
Brest (St. Mathieu)	1016.4	32	NE	3	b	1022.3	+4	38	+4	NNE	4	*	b	3	-	41	34	300 " ENE 10 "				
Rochefort (Ile d'Az)	1010.0	28	NNE	6	o	1013.1	+2	27	+4	NE	6	*	bc	*	-	34	19	Surface NNE 4 "				
Biarritz	1007.5	32	ESE	1	o	1009.9	0	34	+7	SSE	2	*	o	2	-	32	27					
GALES																						
Duration and Extreme Force in British Islands.																						
Paris	1013.6	25	NNE	3	b	1019.4	+3	19	+12	NNE	3	-	b.	*	-	30	7					
Belfort	1011.3	25	E	7	m	1014.6	*	27	+9	ESE	8	*	m	*	-	27	15					
Lyons	1008.4	25	WNW	2	o	1012.3	*	24	+3	WNW	2	*	o	*	-	30	8					
Nice	998.6	49	E	5	o	1000.4	+4	54	+10	-	0	*	o	4	-	54	31					
Perpignan	1001.7	30	NW	4	s	1010.1	0	34	0	W	4	*	o	*	20	34	28					
Sanguinaire	*	54	SE	3	r	*	*	50	*	E	1	*	o	3	10	54	48					
SOUTHERN STATIONS.																						
Corunna	1012.3	39	NNE	1	a	1015.3	+2	37	-4	SE	1	-	o	1	1	45	36					
Madrid	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Lisbon	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Azores (Horta)	1035.1	*	N	5	b	*	*	*	*	*	*	*	*	*	*	*	*					
Madeira	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Gibraltar	1008.8	46	NW	4	o	1009.1	*	40	-6	NW	3	*	m	2	-	50	39					
Malta	*	*	*	*	*	1003.7	+4	55	*	WSW	3	-	bc	2	-	64	55					
Limassol	*	*	*	*	*	1015.4	0	57	+3	SE	2	-	o	3	-	68	41					
Alexandria	1017.6	61	ESE	3	b	1016.6	0	54	-9	ESE	3	-	f	1	-	75	54					
Cairo (Helwan)	1016.7	64	NE	4	b	1016.2	+2	57	+5	-	0	W	c	*	-	81	50					
24 HOURS ENDED 9 P.M. TO-DAY.																						
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.				Rain- fall.	WEATHER.			SOUTH KENSINGTON.									
rs d. Vester-day.		p h. To-day.			Max.	Min.	Min. on Grass.	Morn-ing.		After-noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.										
GREENWICH (Royal Observatory)		%	%	Hours.	° F.	° F.	° F.	mm.				Total.										
CITY (Bunhill Row)		82	66	7.2	25	18	16	-	bz	bz	bz	Average Rate.										
WESTMINSTER (St. James's Park)		*	*	5.0	*	*	*	*	*	*	*	Max. Rate.										
CAMDEN SQ. (British Rainfall)		90	?	5.2	35	23	20	-	m.b	b	bm.	Joules.										
HAMPSTEAD (Reservoir)		78	?	5.6	37	19	20	-	b	b	*	Milliwatts.										
S. KENSINGTON (Museum Grounds)		*	?	7.7	31	15	7	-	bc	bc	bc.	Milliwatts.										
RICHMOND PARK		*	90	5.0	36	23	19	-	b.bz	bz	c	470										
		*	*	*	*	*	*	*	*	*	*	13.9										
		*	*	*	*	*	*	*	*	*	*	27.0										
		*	*	*	*	*	*	*	*	*	*	Temperatures at Greenwich and Cam-										
		*	*	*	*	*	*	*	*	*	*	den Square are from Glaisher screens.										





**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 } Wind light, mainly Westerly; fair generally ;  
1 } rather cold.

2 } Wind light, direction rather variable ; fair  
3 } or fine, mist or fog locally, temperature low.  
4 }  
5 }

6 } Wind light or moderate, mainly between North and  
7 } East; fair or fine generally; mist or fog locally;  
8 } temperature low

9 } Same as Nos. 0 and 1.

10 } Same as Nos. 2 to 4.

11 } Wind light, rather variable, fair or fine  
generally ; cold

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

**FURTHER OUTLOOK.**

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

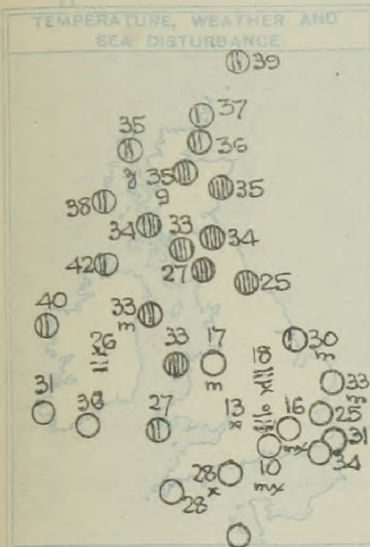
NAPIER SHAW, Director.



# SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 7<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

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



## EXPLANATION.

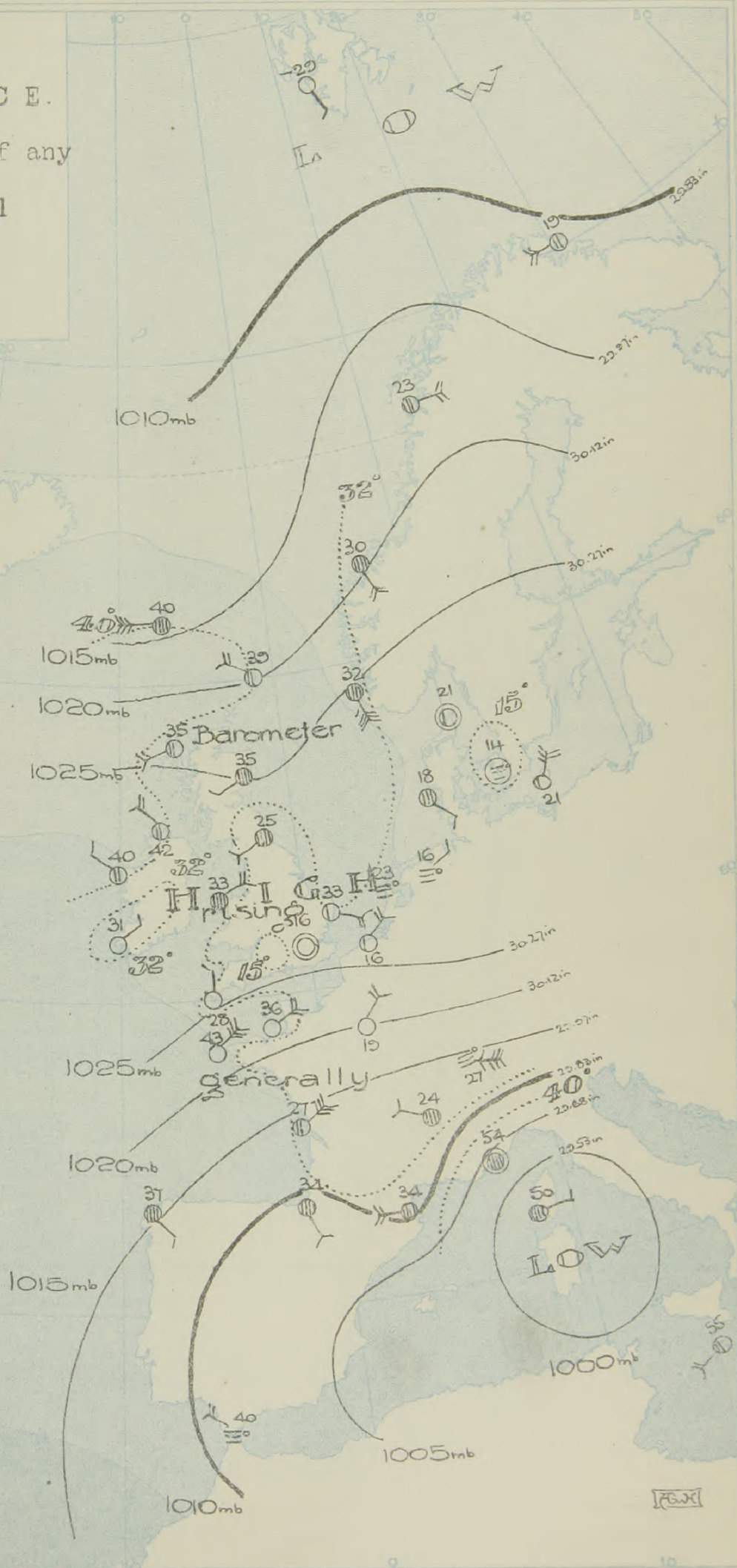
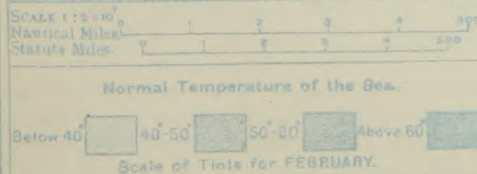
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

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

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

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

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.			MORNING									
	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.	Weather.	Rain- fall. Milli- metres.	Max.	Temp. °F.	Min.	ICELAND.	Barom. Milli- bars at M.S.L.	Temp.		Wind.		Weather.
			Dir.	Force 0-12.				°F.	°F.										Dir.	Force 0-12.	Dir.	Force 0-12.	
Archangel ...	10136	+5	ENE	1	S	10129	+2	-6	-	SE	3	0	-	*	-9	-	Isafjord ...	989.1	39	F	-	0	C
Gorki ...	10136	+5	ENE	1	S	10124	0	+3	0	NNE	2	S	-	*	-2	-	Reykjavik	995.7	34	+A	W	5	O
Velieki Luki ...	10170	+3	NNE	1	S	10123	*	10	+16	SW	2	S	?	*	-6	-	Vestmanna	993.2	34	+2	W	8	O
Hangö ...	10190	-2	-	0	0	10123	-4	12	+12	SSE	2	0	1	*	-6	-	Seydisfjord	995.9	37	+19	ENE	9	R
Riga ...	10190	+1	-	0	0	10167	-1	5	+5	-	0	0	4	*	0	-	Thorshavn	1010.1	37	+14	S	6	R
Petrograd ...	10208	0	SE	1	S	10151	-4	1	+12	NE	2	S	1	+1	-13	-							
Moscow ...	10238	-3	E	3	S	10111	-5	+3	+9	ENE	2	S	6	*	-6	-							
Kiev ...	10194	5	WNW	4	b	10242	+3	-2	-12	W	3	0	3	*	-2	-							
Kharkov ...	10147	21	W	4	b	10237	+4	+1	+5	W	2	b	6	*	-4	-							
Kishinev ...														*	-7	-							
Elisabetgrad ...	10219	10	NW	2	b	10267	+2	-2	-23	-	0	b	3	*	-4	-							
Nicolaiev ...	10240	18	W	2	b	10267	*	+7	-27	-	0	C	-	*	+5	-							
Odessa ...	10248	19	NW	3	b	10271	+1	-2	-34	ESE	3	0	-	*	-6	-							
Tarkhankout ...	10211	50	-	0	0	10244	+3	448	-	-	0	0	-	*	-7	-							
Soukhoum ...														*	-	-							
RUSSIA 7 a.m. and 9 p.m. Local Time.	Venice ...					10107	*	37	+7	NE	1	0	-	39	30	-							
	Pesaro ...	10140	36	N	1	r	10102	*	34	+2	SW	1	0	7	39	32							
	Rome ...	10097	48	-	0	bc	10027	*	48	+3	N	1	0	6	54	45							
	Viesti ...	10129	52	SSE	3	0	10074	*	50	+2	SE	3	0	-	54	43							
	Brindisi ...	10142	50	SE	3	b	10013	*	52	+2	E	3	0	-	57	50							
	Cagliari ...	10047	57	NE	5	0	9940	*	55	+5	E	6	0	-	61	45							
	Palermo ...	10071	54	-	0	b	9993	*	54	+4	-	0	0	-	64	46							
	Tripoli ...						?		63	0	WSW	2	b	-	66	61							
	Algiers ...	9944	59	SSW	5	r	9904	+1	52	-7	SW	3	C	Trace	63	50							
	MEDITERRANEAN.																						
SWEDEN.																							
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## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	-	-	38	23	b c	0	0.2	England, E.	Lowestoft ... ..	-	-	35	32	b	b	8.3
	Banff ... ..	-	-	31	19	o. c	b c. c	0.1		Felixstowe ... ..	-	-	35	26	b	b	8.4
	Montrose ... ..	-	-							Walton-on-Naze ... ..	-	-	35	22	b	b	7.4
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	35	22	b	b	7.4
	St. Andrews ... ..																
Engl. N.E.	Harrogate ... ..	-	-	35	19	b	b	7.3	England, S.E.	Margate ... ..	-	-	36	30	b	b	6.2
	Skegness ... ..	-	-	36	17	b	b	6.6		Ramsgate ... ..	-	-	36	26	b	b	7.8
Engl. N.W.	Morecambe ... ..	-	-	29	12	-	-	6.0		Hastings ... ..	-	-	37	23	b	b	7.0
	Southport ... ..	-	-	21	12	b c x	b c. b	1.0		Eastbourne ... ..	-	-	37	24	b	b	7.7
										Seaford ... ..	-	-	37	26	b	b	7.7
										Brighton ... ..	-	-	37	26	b	b	8.4
										Worthing ... ..	-	-	36	26	b	b	8.4
Midlands.	Leamington Spa ... ..	-	-							Littlehampton ... ..	-	-	36	26	b	b	8.4
	Malvern ... ..	-	-							Bognor ... ..	-	-	37	27	b c	b c	8.5
	Ross-on-Wye ... ..	-	-	34	2	m a b c	b x v	3.5	Bournemouth ... ..	-	-	38	22	b	b	8.0	
Wales.	Rhyl ... ..	-	-	35	10	b c x	b c x	7.8	England, S.W.	Weymouth ... ..	-	-					
	Colwyn Bay ... ..	*	*	37	16	b c	b c	7.9		Torquay ... ..	-	-	39	26	b	b	7.0
	Llandudno ... ..	*	*	36	16	b	b	8.1		Paignton ... ..	-	-	39	25	b	b	8.5
	Aberystwyth ... ..	*	*	37	13	o. c	b c. c	7.0		Penzance ... ..	-	-	36	21	b	b	7.7
	Tenby ... ..									Newquay ... ..	-	-	38	21	b	b	7.7
										Bude ... ..	-	-	36	25	b c	b c	7.1
									Ilfracombe ... ..	-	-	34	20	b	b	6.5	
									Weston-s-Mare ... ..	-	-						

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

7 <sup>th</sup> + 8 <sup>th</sup> February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7 27 L.M.T. 7 26	G.M.T. 12 7 L.M.T. 12 7	G.M.T. 4 47 L.M.T. 4 48
Greenwich ...	G.M.T. 7 31 L.M.T. 7 30	G.M.T. 12 14 L.M.T. 12 14	G.M.T. 4 57 L.M.T. 4 58
Wick ...	G.M.T. 8 8 L.M.T. 8 6	G.M.T. 12 26 L.M.T. 12 26	G.M.T. 4 44 L.M.T. 4 46
Valencia ...	G.M.T. 8 13 L.M.T. 8 12	G.M.T. 12 55 L.M.T. 12 55	G.M.T. 5 37 L.M.T. 5 38

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 32° in some parts of the kingdom, and the minimum readings of the night were again extremely low in some parts of England; 5° at Benson and 9° at South Farnborough. Much bright sunshine was recorded over England.

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

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



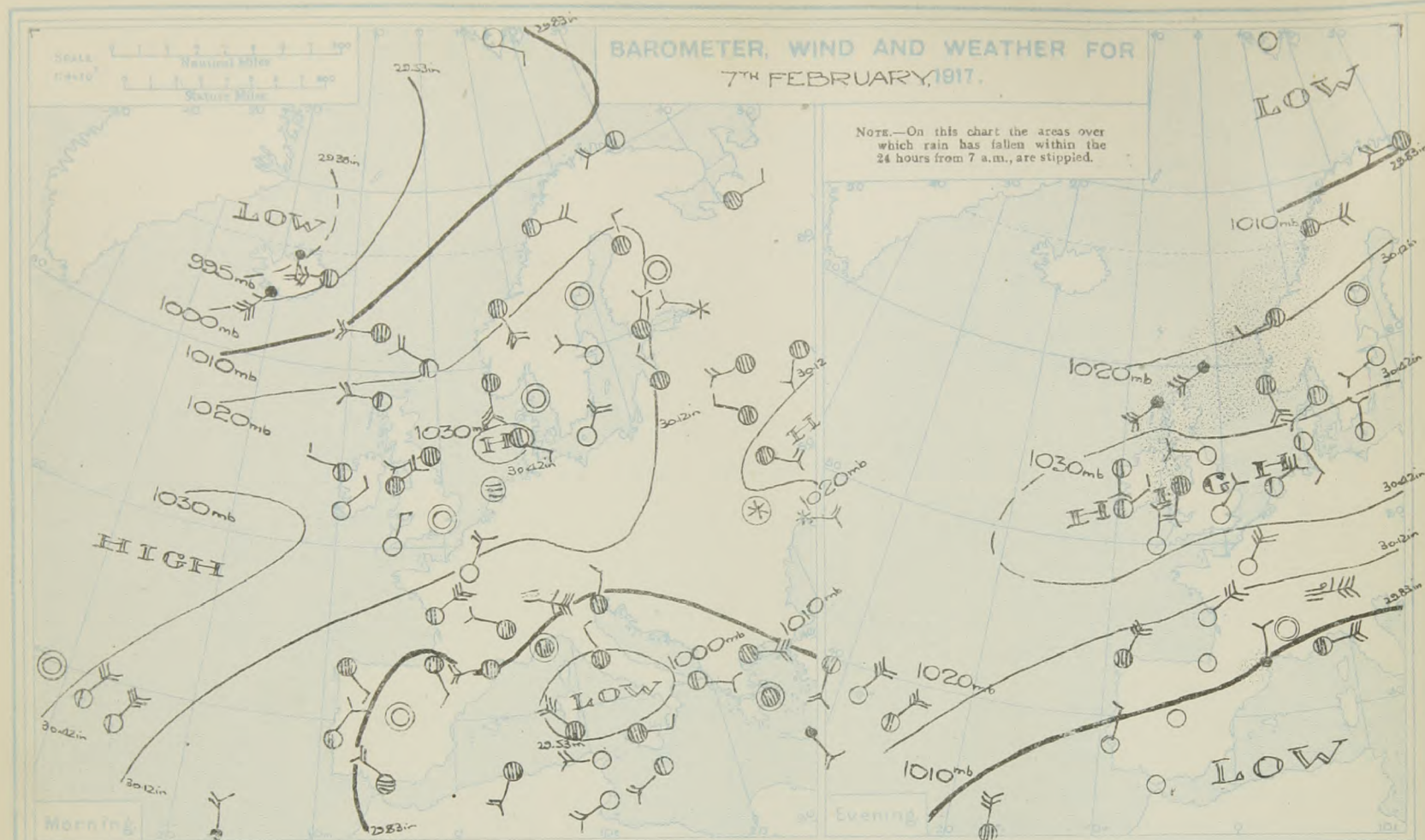
STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	WIND.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.												Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1021.7	39	SW	5	or	1021.8	+1	45	WSW	5	-	og	4	6	45	38	bc-o	or	omg	*	
	Deerness (Orkney)	1023.7	38	SW	5	r	1025.4	*	43	WSW	4	W	bc	3	2	43	37	b.c.og	or	o.c.bc	0-1	
	Stornoway	1025.5	43	SW	5	or	1023.1	+1	43	WSW	5	-	bcg	4	1	44	35	cog.dp	or	e.bcp	0-0	
	Castlebay (Barra Isd.)	1024.5	46	WSW	4	op	1031.1	0	47	W	3	-	o	3	0.2	47	37	bc-o	op	op.o	0-0	
	Glasgow	1031.2	37	WSW	1	o	1032.4	+1	40	SW	1	-	o	*	0.1	40	32	o	og.cm	omg	0-0	
	Eskdalemuir	1021.9	32	S	1	cm	1033.3	+2	38	-	0	-	of	*	-	39	26	om	om	om.d	0-0	
	Malin Head	1030.5	42	SW	2	bc	1033.1	+1	42	SW	3	SW	of	3	-	45	39	bc	b	om	6.8	
	Blackod Point	1032.5	41	S	2	bc	1033.4	0	40	S	2	SE	bc	2	-	46	39	bc	bc	cg.bc	*	
	Valencia	1033.0	40	NE	1	bc	1033.5	0	28	NE	1	-	bx	3	-	48	27	b	b.bc	b.bx	5.9	
	Roche's Point	1032.7	37	NE	1	b	1034.6	*	35	NE	2	-	o	2	0.1	47	32	b	b	bx.o	*	
	Birr Castle	1032.6	36	-	0	m	1034.6	*	18	-	0	-	m	*	-	41	18	f.c	cf	fx	5.6	
	Donaghadee	1032.3	39	W	2	bm	1033.0	+1	38	W	3	-	om	2	0.3	45	31	em	bc.m	af.om	*	
	Liverpool (Bldston)	1032.7	32	-	0	o	1033.5	+1	31	ESE	2	-	o	1	-	34	17	bm	bc.o	om	2.9	
	Holyhead	1031.6	37	SSW	3	ogm.	1033.0	0	34	-	0	-	fe	0	Had	40	29	omg	omg	a.c.bfc	0-0	
	Pembroke (St. Ann's)	1032.2	34	NNE	1	c	1033.2	0	30	NE	2	-	b	1	-	38	25	bc.d	o.c.	b	0-4	
	Scilly (St. Mary's)	1030.8	34	N	2	b.gz	1030.9	-1	29	NNE	2	-	b	*	-	43	26	b	b	b	9-0	
	Falmouth	1025.9	38	NE	5	b	1027.3	*	35	NE	5	-	b	4	-	42	38	b	b	b	8-5	
	Portland Bill	1029.7	33	NNE	3	b	1031.0	0	31	NE	4	-	bx	4	-	39	26	b	b	b	*	
	Dunegness	1030.4	29	NE	4	b	1030.4	0	32	ESE	5	NE	b	4	-	36	27	b	b	b	*	
	Dover	1031.4	32	NNE	4	bc	1031.4	+3	30	NE	4	-	b	4	-	35	28	b	b.bc	bc.b	8.9	
	Wick	1024.7	37	SW	4	r	1026.4	+1	41	W	4	-	bc	3	2	41	32	bc.m.o	omr.	bc.om	*	
	Nairn	1026.5	40	W	4	omg	1029.8	*	39	W	1	-	bc	1	0.2	42	34	cg	cg.o	q.cd	0-0	
	Aberdeen	1028.0	38	SW	1	o	1029.9	+3	35	SW	2	-	b	2	1	41	34	o.c.og	og	og.o.b	0-9	
	Leith	1029.7	38	W	1	o	1031.6	+1	40	SW	2	-	om	2	0.4	44	34	om.c.g.c	cg.c.o	oh.o.d	*	
	Tynemouth	1030.2	38	WNW	2	bm	1032.1	0	36	WNW	2	-	om	3	-	36	25	em	bc.m	om	*	
	Spurn Head	1031.4	34	W	2	bc.m	1033.2	0	29	WSW	1	-	om	1	-	36	26	bc.m	bc.m	bm.	2-1	
Yarmouth	1032.0	30	NNE	1	b	1032.3	+1	30	SE	2	-	bc	2	-	39	16	bc	bf	bf.bc	6-0		
Clacton-on-Sea	1031.5	34	NNE	2	c	1032.7	0	28	N	2	-	b	2	-	36	24	b.bc	bc.c	e.b.c.b	6-5		
Nottingham	1032.2	20	-	0	fe	1033.4	*	19	SW	1	-	ma	*	-	26	16	fx	fx	fx	0-0		
Benson (Oxon.)	1032.1	19	NE	1	b	1034.1	+1	12	-	0	-	fx	*	-	24	7	b	b	bf	*		
Sth Farnborough	1031.0	29	N	2	b	1032.6	0	13	N	1	-	bm	*	-	33	9	b.om	o.bm	bm.	5-3		
London (Kew Obsy.)	1032.1	31	NNE	2	bm	1033.2	0	15	WSW	1	-	fx	*	-	35	14	bm.bfc	bm	bm.	0-1		
NORTHERN EUROPE.	Spitsbergen	1006.3	27	W	3	o	1006.6	-1	18	SW	2	-	o	3	*	27	19	*	*	*	*	
	Vardö	1011.4	28	E	4	o	998.6	-9	37	SW	6	-	r	4	?	37	19	*	*	*	*	
	Bodö	1019.9	39	WSW	1	c	1013.5	-1	43	WNW	6	-	o	4	3	43	21	*	*	*	*	
	Christiansund	1019.9	39	WSW	1	c	1013.5	-1	43	WNW	6	-	o	4	3	43	21	*	*	*	*	
	Skudesnaes	1026.4	36	SSE	4	o	1026.4	0	39	SSE	2	-	r	2	7	39	30	*	*	*	*	
	Færder (X'ania Fjord)	1028.7	28	SW	4	o	1026.3	-2	28	WSW	4	-	m	2	?	28	19	*	*	*	*	
	The Scaw (Skagen)	1030.9	35	SW	2	o	1028.8	-2	30	WSW	3	-	o	3	-	30	16	*	*	*	*	
	Blaavands Huk	1033.6	27	SSE	1	b	1035.0	+1	28	SW	2	-	bc	2	-	30	16	*	*	*	*	
	Copenhagen	1033.7	19	NNE	1	m	1035.1	0	18	WSW	3	-	m	*	-	21	12	*	*	*	*	
	Bornholm	1031.7	19	N	2	b	1031.4	0	23	W	3	-	b	1	-	23	19	*	*	*	*	
FRANCE, &c.	The Helder	1032.0	25	SSE	1	b	1035.0	+2	21	ESE	1	-	b	0	-	32	18	*	*	*	*	
	C. Gris Nez	1028.8	32	ENE	5	b	1028.0	0	21	E	5	-	b	4	-	32	19	*	*	*	*	
	La Hève	1027.3	28	NE	6	b	1025.6	*	23	ENE	4	-	b	2	-	32	21	*	*	*	*	
	Brest (St. Mathieu)	1024.8	39	NE	5	b	1025.9	+2	34	NE	4	-	b	3	-	43	30	*	*	*	*	
	Rochefort (Ule d'Aix)	1017.0	34	NE	5	b	1019.6	+1	23	ENE	6	-	b	*	-	36	23	*	*	*	*	
	Biarritz	1017.0	34	NE	5	b	1019.6	+1	23	ENE	6	-	b	*	-	36	23	*	*	*	*	
	Paris	1023.4	28	NNE	5	b	1026.0	+1	16	NNE	2	-	b	*	-	36	16	*	*	*	*	
	Belfort	1019.1	28	E	7	m	1024.6	*	12	E	7	-	b	*	-	33	11	*	*	*	*	
	Lyons	1017.0	25	-	0	b	1020.3	*	23	NNW	1	-	o	*	-	33	20	*	*	*	*	
	Nice	1008.6	53	E	5	c	1014.1	+2	44	E	1	-	o	6	-	59	41	*	*	*	*	
SOUTHERN STATIONS.	Perpignan	1010.0	39	N	2	r	1014.0	+2	36	NW	2	-	o	*	-	43	34	*	*	*	*	
	Sanguinaire	1010.0	39	N	2	r	1014.0	+2	36	NW	2	-	o	*	-	43	34	*	*	*	*	
	Corunna	1016.2	48	NE	5	o	1014.6	-1	46	NE	6	-	c	3	-	48	40	*	*	*	*	
	Madrid	1010.4	46	NNE	1	b	1009.0	0	37	NE	2	-	bc	6	-	45	37	*	*	*	*	
	Lisbon	1010.4	46	NNE	1	b	1009.0	0	37	NE	2	-	bc	6	-	45	37	*	*	*	*	
	Azores (Horta)	1025.2	*	NNE	5	b	1006.0	0	?	N	3	NE	r	3	12	52	48	*	*	*	*	
	Madeira	1003.8	48	N	3	r	1006.0	0	?	N	3	NE	r	3	12	52	48	*	*	*	*	
	Gibraltar	1008.4	45	-	0	b	1009.7	*	50	E	4	-	bc	3	-	54	39	*	*	*	*	
	Malta	*	*	*	*	*	1016.7	+2	52	SSW	1	-	b	1	-	59	50	*	*	*	*	
	Limassol	*	*	*	*	*	1014.6	0	59	ESE	2	W	c	5	-	66	52	*	*	*	*	
LONDON OBSERVATIONS.	Alexandria	1015.1	63	ENE	2	o	1015.0	+1	63	N	1	-	b	0	-	68	54	*	*	*	*	
	Cairo (Helwan)	1014.9	68	NE	1	c	1014.0	+1	61	SE	2	-	b	*	-	81	57	*	*	*	*	
	Greenwich (Royal Observatory)	72	79	4-2	37	18	19	-	bz	bz	bz	*										
	CITY (Sunhill Row)	72	79	4-2	37	18	19	-	bz	bz	bz	*										
	WESTMINSTER (St. James's Park)	76	?	1-2	37	26	23	-	m.b	b	bfx	*										
	CAMDEN SQ. (British Rainfall)	74	?	5-1	38	22	22	-	b	b	bcx	*										
	HAMPSTEAD (Reservoir)	74	?	7-0	33	18	7															

## RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06</





**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.**

Wind mainly Westerly, light or moderate; fair generally, some showers; moderate temperature.

Wind light, variable; fair generally, some mist or fog; cold.

Wind light to moderate mainly between East and North-East; fine generally, some mist or fog locally; continuing cold.

Same as Nos. 0 and 1.

Same as Nos. 2 to 4.

Same as No. 5.

Wind light or moderate, mainly from the Westward; mostly fair; rather cold.

Wind light, variable; fair generally; cold.

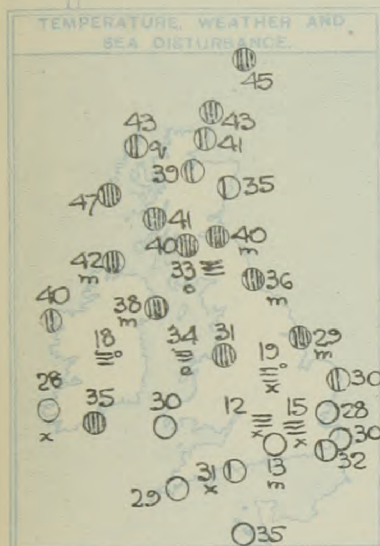
North-Easterly winds, light or moderate; sea slight; fine.



# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 8<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

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



### EXPLANATION.

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

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

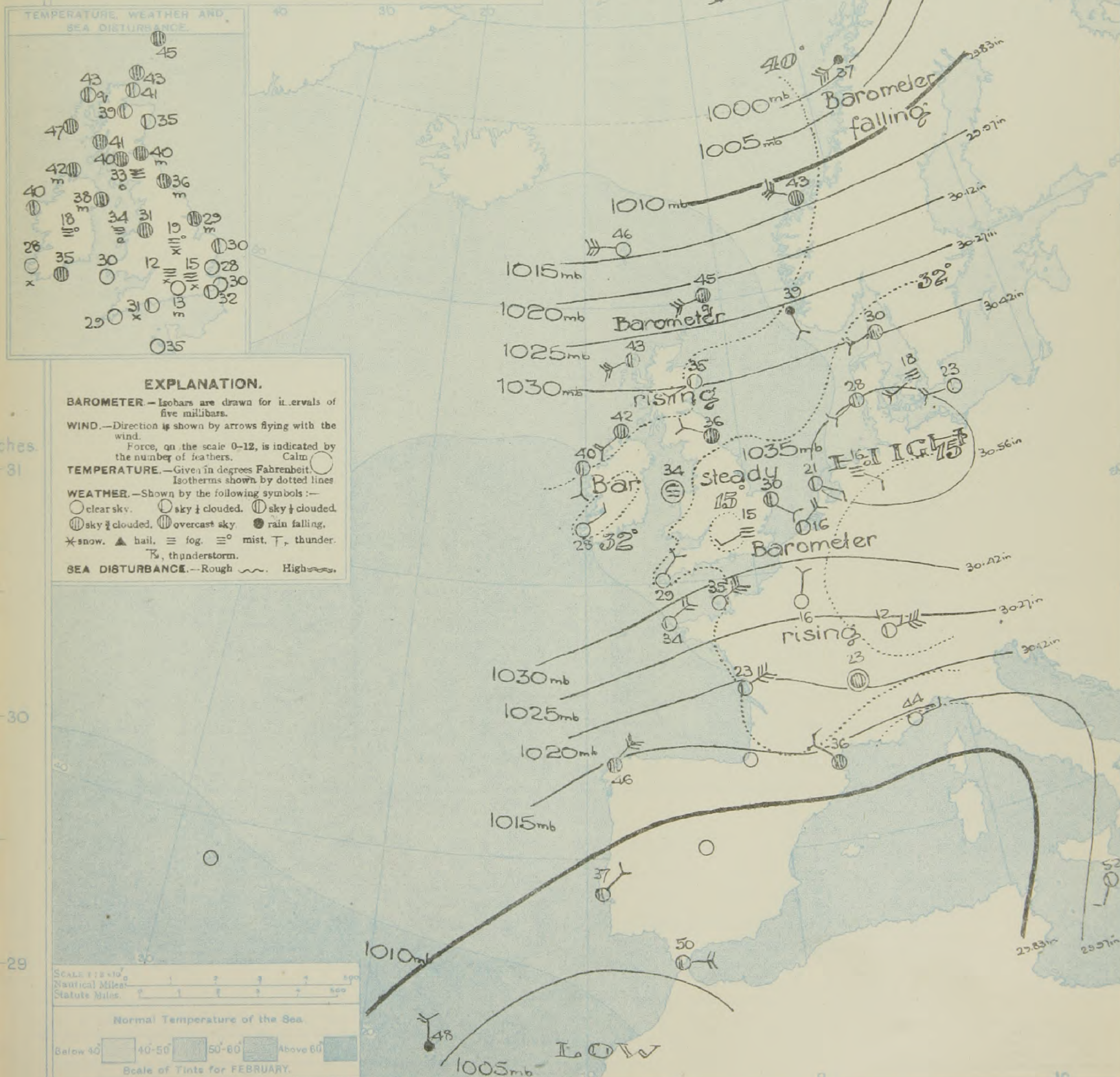
Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

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

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

**SEA DISTURBANCE.**—Rough High



Scale 1:125,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 40 40-50 50-60 Above 60

Scale of Tints for FEBRUARY.



## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING..					MORNING.							PAST 24 HOURS.			MORNING									
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Weather.	Rain- fall. Milli- metres.	TEMP.		ICELAND.	BAROM. Milli- bars at M.S.L.	TEMP.		WIND.		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.			Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.				
RUSSIA 7 a.m. and 9 p.m. Local Time.																									
Archangel ...	1014.7	1	E	2	S	1012.6	0	-2	-4	E	1	0	-	°F	°F	Isafjord ...									
Gorki ...	1016.4	9	NW	3	0	1014.9	0	+9	+6	NE	1	0	24	*	-3	Reykjavik ...	994.0	41	+7	S	3	r			
Velieki Luki ...	1014.3	3	SSW	1	0	1016.2	*	3	-7	W	3	0	3	*	+3	Vestmanna ...	997.0	45	+11	SW	7	r			
Hangö ...	1016.8	5	-	0	C	1021.2	+3	7	-5	NNE	2	0	7	*	-4	Seydisfjord ...	998.6	34	-3	W	4	C			
Riga ...	1014.9	18	N	1	bc	1019.9	+2	9	+4	N	1	0	1	*	+1	Thorshavn ...	1013.8	40	+3	W	6	0			
Petrograd ...	1012.6	1	N	2	S	1014.7	+3	0	-1	NW	2	S	3	3	0										
Moscow ...	1012.2	3	W	3	0	1016.0	+2	0	-3	SW	2	0	52	*	-2										
Kiev ...	1026.7	5	W	2	b	1022.0	-4	9	+11	SE	3	0	-	*	-2										
Kharkov ...	1026.9	5	NW	2	0	1025.6	-1	5	+4	SE	1	0	-	*	+1										
Kishinev ...	1023.4	21	-	0	0	1012.8	-11	21	...	-	0	S	-	*	9										
Elisabetgrad ...	1026.6	18	E	1	S	1019.7	...	21	+23	SE	4	S	6	*	-2										
Nicolaiev ...	1024.8	25	ESE	2	0	1016.7	*	27	+20	ESE	3	S	1	*	+7										
Odessa ...	1023.7	30	SE	3	0	1014.1	-7	32	+34	ESE	3	r	-	*	-2										
Tarkhankout...																									
Soukhoum ...																									
MEDITERRANEAN.																									
Venice ...	1006.8	39	ENE	2	0	1006.8	*	37	0	NNE	1	0	2	41	37	British Isles ...				b.		b.			
Pesaro ...	1003.9	39	NW	4	r	1005.3	*	38	+4	WNW	3	r	4	41	34	France ...				7		18			
Rome ...	996.2	52	-	0	r	998.4	*	26	-2	N	1	0	13	54	46	Norway ...				7		18			
Viesti ...	999.3	54	SE	6	0	999.9	*	48	-2	W	3	0	14	54	48	Sweden ...				7		17			
Brindisi ...	999.3	57	SE	2	0	1000.2	*	52	0	SE	2	bc	-	61	52	Denmark ...				7		18			
Cagliari ...	991.3	59	SE	5	0	999.7	*	54	-1	NW	5	0	3	63	43	Holland ...				7		18			
Palermo ...	994.9	51	E	5	b	1002.0	*	62	-2	ESE	1	0	3	64	46	Italy ...				7		20			
Tripoli ...						1005.9	*	63	0	WSW	3	bc	-	73	61	Egypt ...				6		18			
Algiers ...	999.7	46	WNW	4	f	1008.0	+7	43	-9	SSW	3	0	31	52	41	Corunna...				7		16			
SWEDEN.																									
Hernösand ...	1012.7	10	-	0	b	1026.9	*	12	-	-	0	b	*	*	*	Madrid ...				8		16			
Stockholm ...	1020.4	14	W	2	b	1027.8	*	23		WNW	2	b	*	*	*	Lisbon ...				7		21			
Wisby ...	1019.5	25	N	4	b	1025.5	*	23		N	3	C	*	*	*	Azores ...				8		17			
																Madeira ...				7		21			
																Malta ...				8		-			
																Limassol ...				6		-			

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 1st-3h.	Day. 4h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 1st-3h.	Day. 4h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	1	-	44	24	0. b	c	2.4	England, E.	Lowestoft ... ..	-	-	38	31	bc	bc. b	6.5
	Banff ... ..	2	-	41	27	c	c.0	0.4		Felixstowe ... ..	-	-	36	21	bu bc	bc c	6.7
	Montrose ... ..	*	*							Walton-on-Naze ... ..	-	-					
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	37	22	b	b	8.3
	St. Andrews ... ..	-	-	41	29	-	-	2.1									
Eng. N.E.	Harrogate ... ..	-	-	36	17	bc. b	b. bc. c	4.6	England, S.E.	Margate ... ..	-	-	36	32	b	b	7.4
	Skegness ... ..	-	-	34	15	f. b	bf	3.5		Ramsgate ... ..	-	-					
Eng. N.W.	Morecambe ... ..	-	-	32	17	-	-	0.0		Hastings ... ..	-	-	36	25	b	b	8.5
	Southport ... ..	-	-	34	15	bc. b. bc	bc. c.0	0.3		Eastbourne ... ..	-	-	36	24	b	b	7.4
										Seaford ... ..	-	-	38	25	b	b	8.1
										Brighton ... ..	-	-	38	27	b	b	8.0
										Worthing ... ..	-	-	38	26	b	b	8.8
Midlands.										Littlehampton ... ..	-	-	36	21	b	b	8.6
	Leamington Spa ... ..	-	-	22	5	okm	cxs	0.0		Bognor ... ..	-	-	38	23	b	bc	8.5
	Malvern ... ..	-	-						Bournemouth ... ..	-	-	40	20	b	b	7.9	
	Ross-on-Wye ... ..	-	-														
Wales.	Rhyl ... ..	-	-	37	12	x. bc	c. bc. c	1.4	England, S.W.	Weymouth ... ..	-	-	39	22	z. b	b. z	7.6
	Colwyn Bay ... ..	-	-	39	18	o. c	bc. o	3.0		Torquay ... ..	-	-	41	24	b	b	8.3
	Llandudno ... ..	-	-	39	22	c. bc	c	2.4		Paignton ... ..	-	-					
	Aberystwyth ... ..	*	*	36	17	c	bc	4.5		Penzance ... ..	-	-	44	31	b	b	8.9
	Tenby ... ..	-	-							Newquay ... ..	-	-	42	25	b	b	8.5
										Bude ... ..	-	-	40	22	b	b	8.7
										Ilfracombe ... ..	-	-					
								Weston-s-Mare ... ..	-	-	32	19	bc. b	b	3.5		

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> & 9 <sup>th</sup> February, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.26	12.7	4.48
	7.24	12.7	4.50
Greenwich ...	7.30	12.14	4.58
	7.28	12.14	5.0
Wick ...	8.6	12.26	4.46
	8.3	12.26	4.48
Valencia ...	8.12	12.55	5.38
	8.10	12.55	5.40

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 25° during the day in some parts of England, and fell to a very low figure at night; to 7° at Benson, 9° at South Farnborough and 14° at Kew. In Scotland the day was relatively mild. Much bright sunshine was recorded in England and Ireland.

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

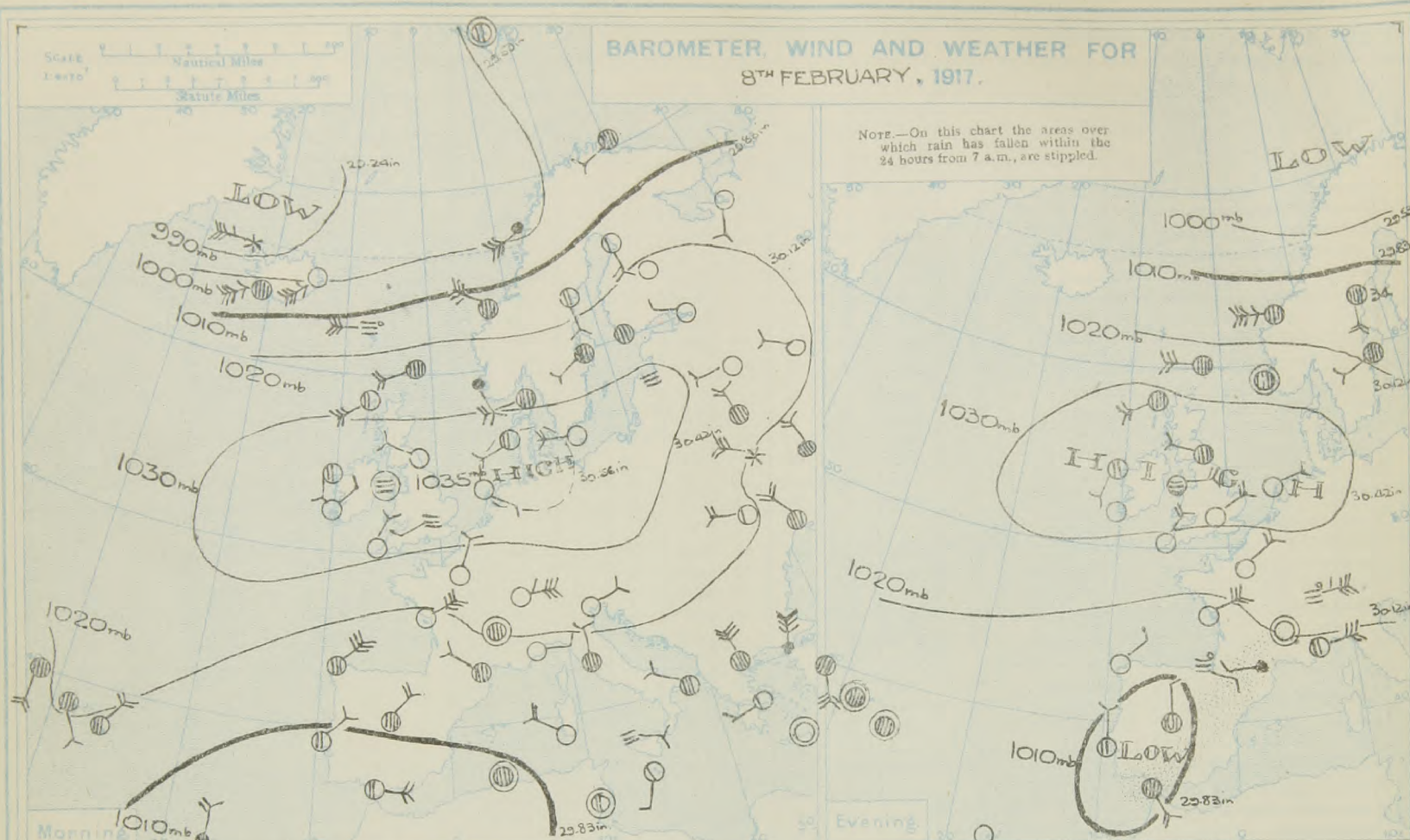
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 40. Friday 9th February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.							Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 5 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick	1024.1	46	W	5	o	1024.3	0	45	0	W	5	-	og	4	0.2	46	44	omg	omg	bc og	*	
	Deerness (Orkney)	1027.7	45	W	6	o	1028.4	*	43	0	SW	4	-	c	3	-	47	42	c	c.o.	c.c	3.2	
	Stornoway	1030.3	46	WSW	4	o	1030.4	0	42	-1	SW	3	-	c	3	0.3	46	41	c.o	o	o.cdp	0.0	
	Castlebay (Barra Isd.)	1033.4	46	W	2	o	1032.7	0	44	-3	W	1	-	o	1	0.1	47	44	o	o	odp.o	0.0	
	Glasgow	1032.3	42	WNW	1	b	1032.6	-1	32	-8	SE	1	-	m	*	Trace	48	27	c.bcm	bc bz	bmx	2.6	
	Eskdalemuir	1033.8	32	-	0	ofe	1033.2	-1	30	-3	NW	2	-	og	*	0.4	34	24	og	ofe	og	0.0	
	Malin Head	1033.6	42	SW	1	cm	1033.2	0	41	-1	SW	1	-	og	1	-	45	38	bm	b.bm	og	0.0	
	Blackrod Point	1032.9	41	SSW	1	bc	1030.1	-2	33	-2	ESE	3	-	og	3	-	46	34	bc	bc	bc og	*	
	Valencia	1031.6	39	-	0	b	1028.1	-2	34	+6	-	0	-	og	3	0.1	45	27	b bc	b	b bc b	3.2	
	Roche's Point	1031.8	36	ENE	1	bc	1029.0	*	34	-1	N	1	-	b	1	Trace	45	34	o bc	b bc	o bam	*	
	Birr Castle	1033.0	30	NW	1	c	1029.7	*	34	+16	-	0	-	m	*	-	36	18	f c	z c	f	3.6	
	Donaghadee	1032.5	43	WNW	2	om	1031.5	-1	44	+3	S	1	-	og	1	-	44	39	of	of	om of	*	
	Liverpool (Bidston)	1033.5	37	SE	1	s	1032.6	0	24	-7	ESE	2	-	bm	1	-	38	24	om	bcn.o	bm	1.0	
	Holyhead	1032.5	39	E	3	fe	1030.4	0	33	-1	E	5	-	b	4	Trace	41	33	fpd of	fpd fe	f.c bc	0.0	
	Pembroke (St. Ann's)	1031.9	38	ENE	1	b	1029.4	+1	30	0	E	3	-	b	3	-	38	29	b	bz	b	3.4	
	Scilly (St. Mary's)	1028.4	35	NNE	2	baze	1025.2	-1	30	+1	ENE	5	-	bcg	*	-	41	28	b	b	b bzg	3.6	
	Falmouth	1024.4	35	ENE	6	b	1023.2	*	27	-8	ENE	5	-	b	4	-	39	25	b	b	b	3.0	
	Jersey (St. Aubin)	1028.5	34	NE	5	b	1025.7	-2	30	-1	ENE	5	-	b	4	-	38	29	b	b	b	*	
	Portland Bill	1029.1	32	ENE	6	b	1027.7	+1	28	-4	E	4	-	b	4	-	34	28	b	bc	e.b	*	
	Dungeness	1031.2	30	NE	5	b	1019.4	-1	28	-2	NE	2	-	b	4	-	33	26	b	b	b	3.3	
NORTHERN EUROPE.	Wick	1029.5	40	W	2	b	1028.9	0	29	-2	W	1	-	c	2	-	45	35	bcn	bcn	og bam	*	
	Nairn	1031.1	44	W	1	og	1031.3	*	29	0	W	1	-	c	1	-	47	38	bc	bc c	c bc c	4.7	
	Aberdeen	1031.3	36	W	2	bz	1031.9	0	28	-7	W	2	-	b	2	-	48	27	bz	bz	bz	3.7	
	Leith	1031.7	40	SW	1	b	1032.2	0	34	-6	SW	1	-	m	2	0.2	45	32	omg	og bz	og bz	*	
	Tynemouth	1032.7	36	WNW	2	fg	1032.4	0	32	-4	W	2	-	f	3	-	41	30	cm	cm	f	*	
	Spurn Head	1034.2	35	WSW	1	c	1031.6	-1	28	-1	N	1	-	b	2	-	37	24	bcn	bcn	o	0.0	
	Yarmouth	1033.8	33	E	3	b	1031.4	-1	33	+3	E	3	-	bc	3	-	36	29	bc	b	bc b	8.1	
	Clacton-on-Sea	1031.9	32	NNE	3	bc	1031.3	-1	31	+3	ENE	3	-	bc	2	-	35	26	bc	bc	bc b	7.9	
	Nottingham	1034.1	31	E	1	b	1032.1	*	16	-3	-	0	-	fx	*	-	35	14	fm bc	bcn	bm	1.2	
	Benson (Oxon.)	1032.5	25	NE	1	b	1030.5	-1	14	+2	N	2	-	bm	*	-	29	11	b	b	b	*	
	Sth Farnborough	1030.6	28	NE	3	b	1029.0	-1	20	+7	NNE	2	-	bm	*	-	35	12	fx b bam	bm	bm	7.3	
	London (Kew Obsy.)	1031.7	31	NE	4	bm	1029.7	0	25	+10	NE	2	-	bm	*	-	34	14	fx bam	bm	bm	2.4	
	FRANCE, &c.	Spitsbergen											*		*	*			UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7.28 a.m. 9th  750 metres E 18 metres per sec. 600 " E 18 " " " 300 " ENE 13 " " " Surface NE/E 4 " " "				
		Vardö													*								
		Bodö													*								
		Christiansund	1011.8	45	W	8	o	1012.8	+1	44	-2	WNW	6	-	o	6	2	45					28
		Skudesnaes	1026.7	44	-	0	o	1025.0	0	43	+4	NW	6	-	o	4	1	44					30
		Færder (Tania Fiord)																					
The Scaw (Skagen)																							
Blaavands Huk																							
Copenhagen																							
Bornholm																							
SOUTHERN STATIONS.	The Helder	1035.3	27	NE	2	b	1032.7	-2	23	+2	E	1	NE	b	0	-	28	19					
	C. Gris Nez	1028.6	27	E	5	b	1025.2	0	18	-3	E	6	*	b	5	-	30	14					
	La Hève						*					*											
	Brest (St. Mathieu)	1023.3	36	NE	5	b	1019.7	-1	27	-7	ENE	5	*	b	3	-	39	25					
	Rochefort (Ile d'Atx)	1015.4	32	ENE	6	bc	1016.2	0	28	+5	E	6	*	b	*	-	37	21					
	Biarritz	1011.5	36	ESE	1	m	1011.4	0	30		E	3	*	m	2	-	39	30					
	Paris	1024.2	27	ENE	4	b	1024.4	-1	12	-4	NE	2	-	b	*	-	32	12					
	Belfort	1024.8	21	E	7	m	1025.5	*	10	-2	E	7	*	b	*	-	27	10					
	Lyons	1021.2	21	-	0	s	1022.0	*	9	-44	-	0	*	b	*	1	25	9					
	Nice	1016.7	40	E	5	bc	1016.4	0	39	-5	E	5	*	o	6	-	45	36					
Perpignan	1012.3	37	W	1	r	1015.4	+2	36	0	ENE	2	-	r	*	52	39	34						
Sanguinaire	*					*	*				*												
LONDON OBSERVATIONS.	Corunna	1012.3	46	NNE	6	o	1009.5	+2	44	-5	E	4	-	r	3	-	48	39					
	Madrid	1008.0	43	-	0	o	1011.5	+3	34	0	NE	1	-	b	*	1	43	32					
	Lisbon	1007.3	46	NNW	2	bc	1006.3	0	43	+6	N	1	-	o	5	-	50	37					
	Azores (Horta)	1018.1	*	SE	5	o	1012.6	-1	55	+5	SE	5	*	r	3	2	59	50					
	Madeira																						
	Gibraltar	1007.2	48	SE	2	o	1008.4	*	48	-2	W	3	*	o	3	21	52	44					
	Malta	*	*	*	*	*																	
	Limassol	*	*	*	*	*	1016.3	+2	54	-5	-	0	-	b	3	-	68	45					
	Alexandria	1017.7	63	NNE	3	c	1019.9	+1	63	0	NNE	2	-	b	1	-	70	59					
	Cairo (Helwan)	1016.3	63	N	4	b	1018.3	+2	57	-4	N	3	NE	b	*	-	82	55					
24 HOURS ENDED 9 a.m. TO-DAY.																							
HUMIDITY.		Sun- shine for Yester- day.		TEMPERATURE.		Rain- fall.		WEATHER.		SOUTH KENSINGTON.													
15 h. Yester- day.	9 a. To-day.	Max.	Min.	Min. on Grass.	Max.	Min.	Morn- ing.	After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.													
%	%	°F.	°F.	°F.	mm.					Total.													
GREENWICH (Royal Observatory)	67	81	35	21	18	*	bz	b	b	Average Rate.													
CITY (Bunhill Row)	*	*	*	*	*	*	bz	b	b	Max. Rate.													
WESTMINSTER (St. James's Park)	?	?	3.5	36	25	21	bm	bmx	bmx	Joules.													
CAMDEN SQ. (British Rainfall)	68	74	5.3	37	19	19	b	b	*	Milliwatts.													
HAMPSTEAD (Reservoir)	*	?	6.7	33	20	7	bex	bex	bex	430													
S. KENSINGTON (Museum Grounds)	*	*	3.5	36	24	20	bm	bz	bz	12.6													
RICHMOND PARK	*	*	*	*	*	*	*	*	*	24.0													
Temperatures at Greenwich and Cam- den Square are from Glaisher screens.																							





# 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

Wind mainly Westerly, light or moderate; fair generally; moderate temperature.

Light variable or Easterly winds, fair or fine, mist or fog locally; cold.

Same as No. 5.

Same as No. 2.

Easterly and North-Easterly winds, light or moderate, fresh at times locally; fine, some local mist; cold.

Same as Nos. 0 and 1.

Same as No. 5.

Light winds, variable or Easterly; fair, mist locally; cold.

Easterly winds, moderate or fresh; sea moderate; fair generally.

## FURTHER OUTLOOK.

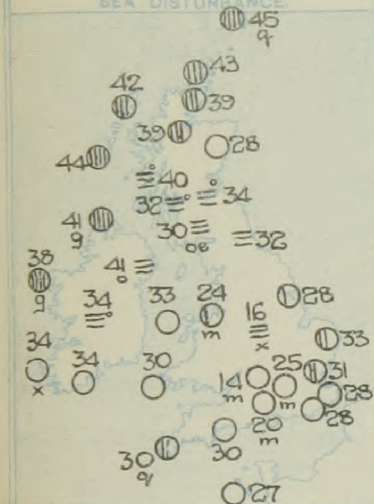


# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 9<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

There are still no indications of any change from anticyclonic 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,

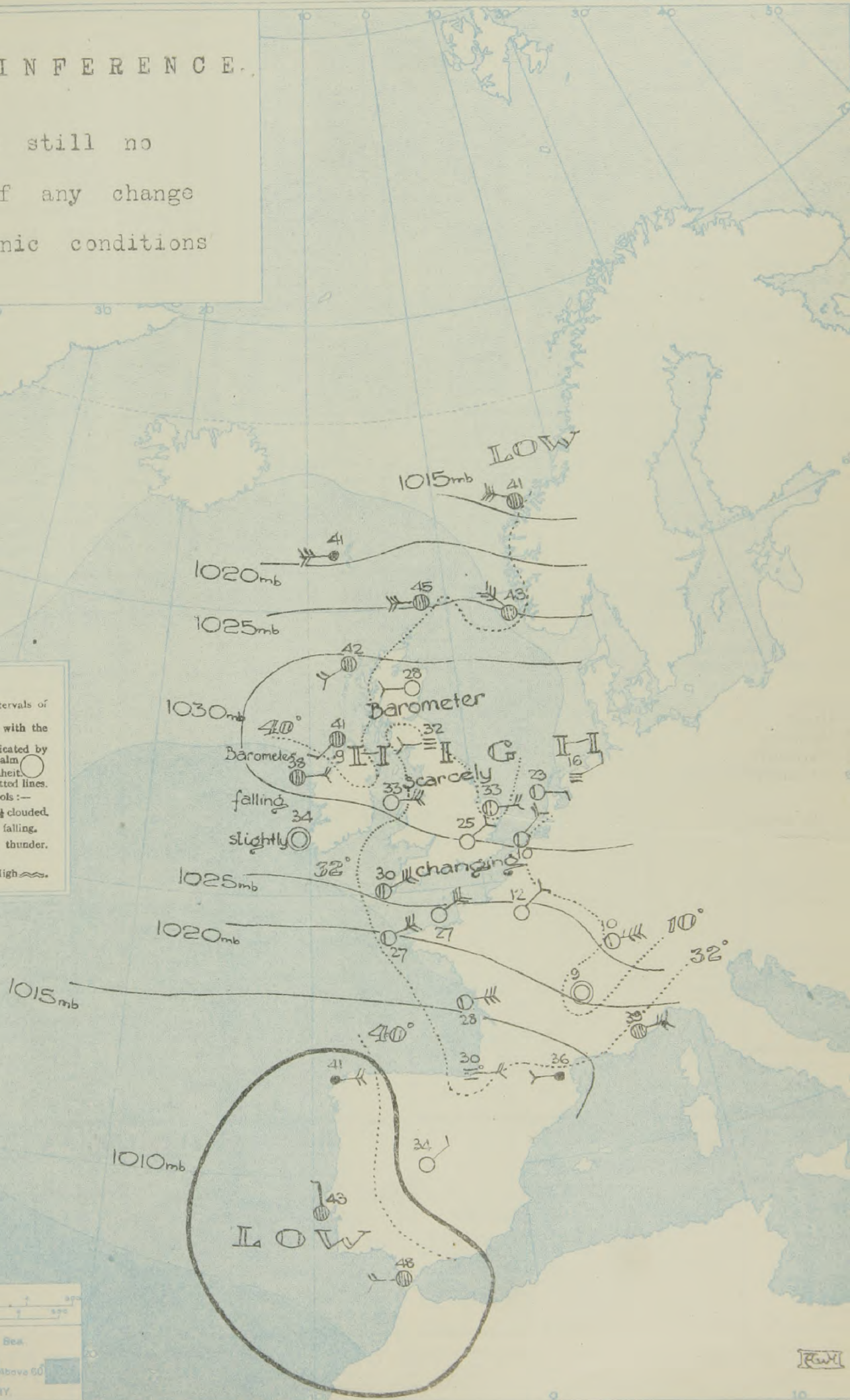
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

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

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough High



SCALE 1 : 250,000  
 Nautical Miles  
 Statute Miles

Normal Temperature of the Sea.

Below 40 40-50 50-60 Above 60

Scale of Tints for FEBRUARY.

RAW



## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.					MORNING							
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Force 0-12.	Weather.	Rain- fall. Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.		
			Dir.	Force 0-12.				°F.	°C.					Max.	Min.		°F.	°C.	Dry Bulb.	Change in 24 hours.		Dir.	Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	10137	-2	-	0	b	10154	+1	-4	-2	SSW	2	b	-	°F	°F	Isafjord ...	9884	32	-	W	7	S
	Gorki ...	10190	+7	SW	1	o	10213	+5	-6	-15	N	3	o	-	*	-6	Reykjavik	10034	36	-5	WSW	8	o
	Velieki Luki ...	?	-2	W	2	b	10279	*	-15	-18	W	2	b	-	*	-15	Vestmanna	10038	29	-6	W	9	o
	Hangö ...	10277	+1	-	0	b	10269	-2	+3	-4	-	0	o	-	*	-8	Seydisfjörð	9954	43	+9	WSW	8	b
	Riga ...	10278	+3	N	1	b	10307	+2	-11	-20	-	0	f	-	*	-11	Thorshavn	10128	46	+6	W	6	m
	Petrograd ...	10233	-11	NW	3	b	10266	+2	-19	-19	WNW	1	b	-	3	-10							
	Moscow ...	10193	+3	NNW	2	o	10211	0	-11	-11	NNW	2	b	1	*	-13							
	Kiev ...	10146	10	N	4	S	10187	+4	+9	0	NNW	5	S	10	*	+7							
	Kharkov ...	10100	16	NE	4	S	10043	0	12	+7	N	3	o	1	*	5							
	Kishinev ...	10118	18	NW	6	o	10203	+6	9	-12	NW	3	b	19	*	5							
	Elisabetgrad ...	10067	21	NNW	4	S	10120	+5	4	-7	NW	4	b	20	*	14							
	Nicolaiev ...	10044	34	NW	5	o	10141	*	10	-17	NNW	4	o	-	*	10							
	Odessa ...	10084	23	NNE	5	o	10176	+7	9	-23	NNW	6	o	8	*	9							
	Tarkhankout...																						
	Soukhoun ...	10122	55	NE	3	o	10071	-1	55	...	NE	2	o	-	*	50							
MEDITERRANEAN.	Venice ...	10166	37	NE	1	b	10240	*	30	-7	ESE	2	b	Trace	45	27	British Isles						
	Pesaro ...	10140	43	SE	3	o	10176	*	39	+1	NE	3	o	-	46	37	France						
	Rome ...	10092	48	N	1	o	10136	*	43	-3	N	2	o	1	54	41	Norway						
	Viesti ...	10174	46	NW	6	o	10169	*	45	-3	NE	2	o	Trace	48	43	Sweden						
	Brindisi ...	10092	52	SE	1	o	10140	*	46	-6	NW	2	o	-	63	46	Denmark						
	Cagliari ...	10117	59	NW	5	be	10140	*	52	-2	NW	3	b	-	63	41	Holland						
	Palermo ...	10099	54	ESE	3	o	10157	*	46	-6	ESE	2	b	-	61	43	Italy						
	Tripoli ...						10148	*	57	-6	S	1	b	-	63	54	Egypt						
	Algiers ...	10096	58	SW	3	o	10086	+1	48	+5	-	0	o	-	52	43	Corunna...						
SWEDEN.	Hernösand	10238	0	-	0	b	10179	*	5	-7	S	2	b	*	*	*	Madrid						
	Stockholm	10246	9	SW	2	b	10256	*	23	0	SW	2	o	*	*	*	Lisbon						
	Wisby	10310	21	NW	2	b	10299	*	27	+4	W	4	o	*	*	*	Azores						
																	Madeira						
																	Malta						
																	Limassol						

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	-
Limassol	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			
	Mm.	Mm.	F.	°			Hr.		Mm.	Mm.	° F.	° F.			Hr.		
Scotland.	Oban ... ..	1	-	44	34	o	o.d.m	0.0	England, E.	Lowestoft ... ..	-	-	37	18	bc	bc	7.8
	Banff ... ..	1	-	49	37	b	b	5.8		Felixstowe ... ..	-	-	34	23	bc	bc	8.5
	Montrose ... ..	*	*							Walton-on-Naze ... ..	-	-					
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	36	25	b	b	7.9
	St. Andrews ... ..																
Eng. N.	Harrogate ... ..	-	-	43	30	o.c.bc	c.m	1.2	England, S.E.	Margate ... ..	-	-	34	31	b	b	7.5
	Skegness ... ..	-	-	36	12	o.c	b	2.7		Ramsgate ... ..	-	-					
Eng. N.W.	Morecambe ... ..	-	-					0.0		Hastings ... ..	-	-	33	25	b	b	8.6
	Southport ... ..	-	-	39	27	o	o	0.0		Eastbourne ... ..	-	-	33	24	b	b	7.7
										Seaford ... ..	-	-	35	24	b	b	7.0
										Brighton ... ..	-	-	36	28	b	b	8.0
										Worthing ... ..	-	-	37	25	b	b	8.5
Midlands.	Leamington Spa ... ..	-	-						Littlehampton ... ..	-	-	35	23	b	b	8.9	
	Malvern ... ..	-	-						Bognor ... ..	-	-	36	25	bc	bc.b	8.8	
	Ross-on-Wye ... ..	-	-	33	26	bc.m	bc.m	1.4	Bournemouth ... ..	-	-	37	21	b	bc.b	5.5	
Wales.	Rhyl ... ..	-	-	41	26	c.x	c	0.2	England, S.W.	Weymouth ... ..	-	-	38	25	bc	bc	7.0
	Colwyn Bay ... ..	-	-	40	31	o.bc	bc.o	0.0		Torquay ... ..	-	-	40	28	b	b	7.3
	Llandudno ... ..	-	-	40	30	o	o	0.0		Paignton ... ..	-	-					
	Aberystwyth ... ..	-	-	39	25	bc	c	3.7		Penzance ... ..	-	-	42	30	b	b	8.7
	Tenby ... ..	-	-							Newquay ... ..	-	-	39	22	b	b	8.0
										Bude ... ..	-	-	40	22	b	b	8.0
										Ilfracombe ... ..	-	-	36	25	b	bc	5.9
								Weston-s-Mare ... ..	-	-	35	17	bc.b	b	4.2		

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

9th & 10th February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth	G.M.T. 7.24 7.22	G.M.T. 12.7 12.7	G.M.T. 4.50 4.52
Greenwich	7.28 7.26	12.14 12.14	5.0 5.2
Wick	8.3 8.0	12.16 12.16	4.48 4.51
Valencia	8.10 8.8	12.55 12.55	5.40 5.42

## NOTES ON YESTERDAY'S WEATHER.

Temperature again remained below 32° in some parts of England, but rose to above 45° at several Scottish stations. Severe frost prevailed at night in the Midlands and eastern England. Much bright sunshine was recorded.

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

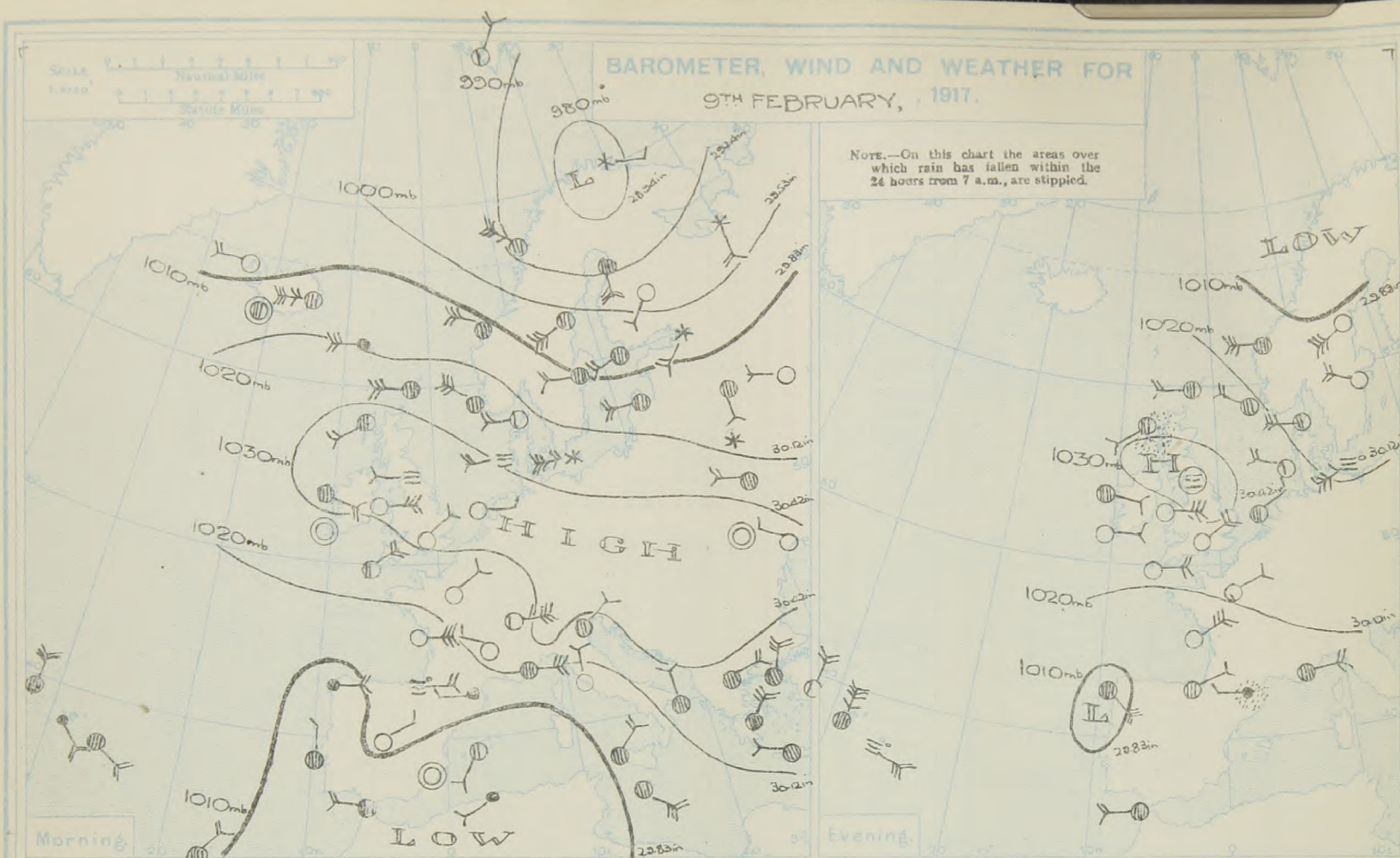
The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O.



10th February

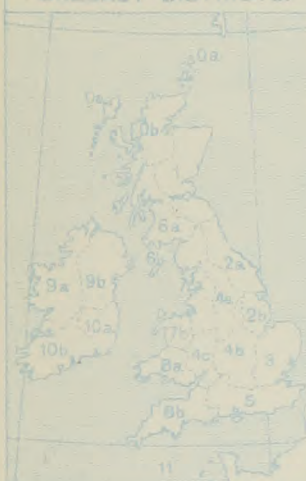
\* The barometric change is expressed in half-millibars.





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

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

NO  
WARNINGS  
ISSUED.

Western Channel and Bay. 1)

0 } North-Westerly winds, light to fresh; cloudy, some rain locally; moderate temperature.

1 } North-Westerly winds, light; fair or cloudy; moderate temperature.

2 } Wind light, mainly from some Easterly point; fair generally, mist or fog locally; less cold generally.

3 } Variable light winds; cloudy or fair, mist or fog locally; moderate temperature.

4 } Wind light or moderate, mainly from some Easterly point; variable cloud, some mist locally; less cold.

5 } Wind light, variable or Easterly; fair generally; mist locally; no great change of temperature.

6 } Easterly winds, light or moderate; sea slight; fair.

#### FURTHER OUTLOOK.

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

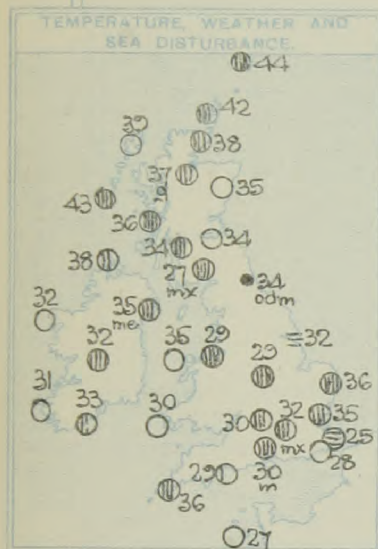
NAPIER SHAW, Director



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 10<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

It appears probable that the anticyclone will maintain its position, with some modification in form and intensity.



## EXPLANATION.

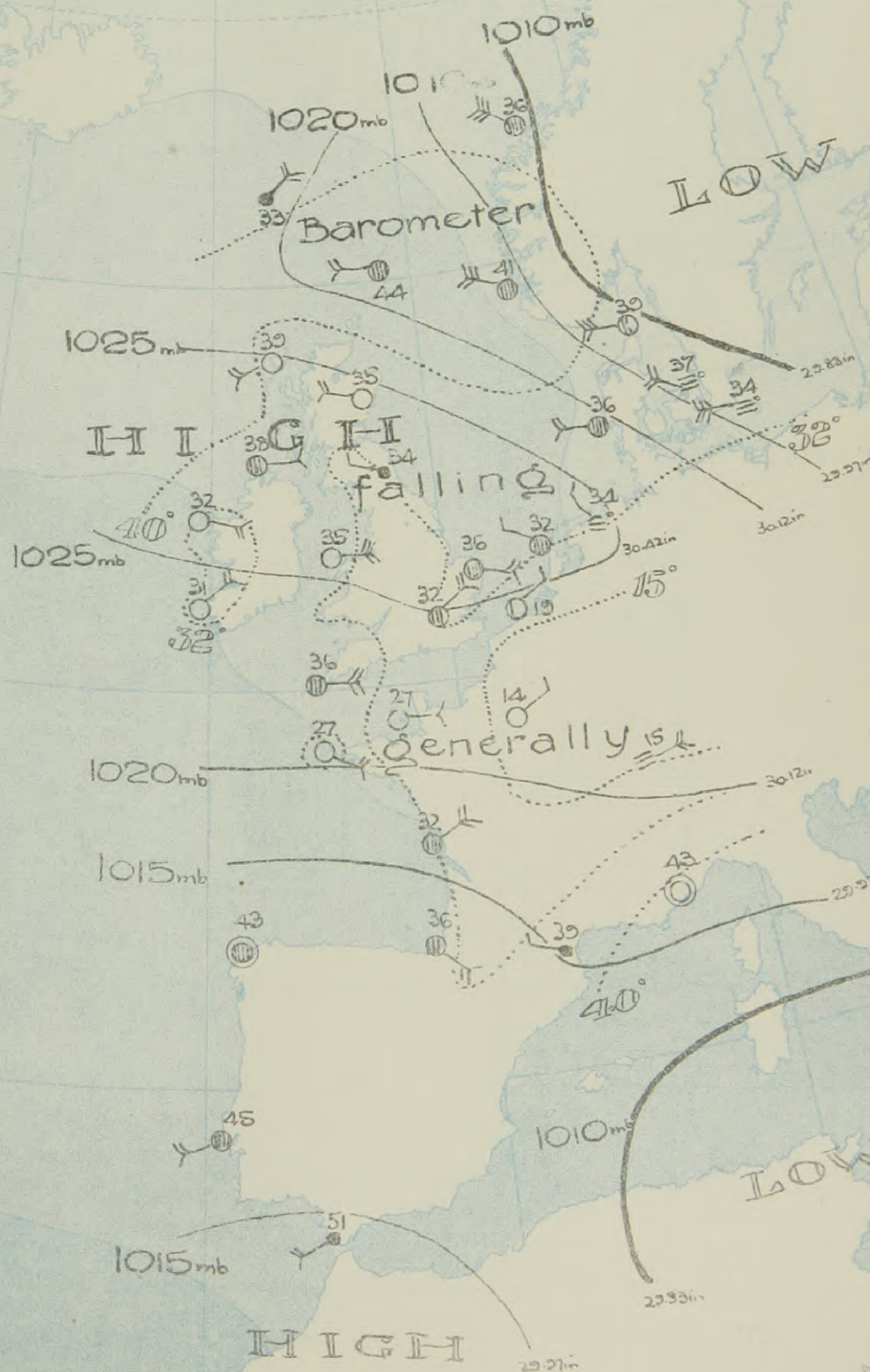
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

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

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.					MORNING.						
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Weather.	Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Dir.	Force 0-12.			Max.	Min.			Dry Bulb. °F.	Change in 24 hours. °F.	Dir.	Force 0-12.	
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1010.1	+7	GSW	3	0	992.2	-1	+10	+14	S	3	S	-	-4	Isafjord ...	1004.6	28	-4	W	3	b
	Gorki ...	1025.9	-6	N	2	b	1013.3	0	-6	0	-	0	S	-	-15	Reykjavik ...	1019.7	34	-2	SSE	2	o
	Velieki Luki ...	1029.1	-15	SSW	1	b	1014.1	0	+10	+25	S	2	o	-	-17	Vestmanna ...	1019.9	36	-3	-	0	c
	Hangö ...	99.1	+28	W	6	0	988.7	0	32	+29	S	5	o	-	-11	Seydisfjord ...	1015.9	36	-7	W	9	c
	Riga ...	1014.3	23	SW	3	0	1015.3	0	32	+44	W	4	o	-	-11	Thorshavn ...	1019.9	41	-5	W	5	r
	Petrograd ...	1019.7	+9	SSW	3	0	1003.5	-11	23	+42	SW	3	S	1	23							
	Moscow ...	1022.0	-9	N	3	b	1017.6	0	-13	-2	WNW	2	b	-	-13							
	Kiev ...	1024.8	0	NNW	4	0	1029.7	0	-4	-13	WNW	3	o	-	-6							
	Kharkov ...	1017.0	+1	NW	5	0	1020.8	0	-4	-16	W	4	o	-	-4							
	Kishinev ...	1032.8	5	NW	4	b	1034.1	0	0	-9	-	0	b	-	0							
MEDITERRANEAN.	Elisabetgrad ...	1027.2	1	NW	4	0	1029.1	0	-4	-18	NW	4	o	-	-4							
	Nicolaiev ...	1029.0	9	NW	3	c	1031.9	0	-2	-12	WNW	3	b	-	-2							
	Odessa ...	1031.4	9	NW	3	0	1032.7	0	+1	-6	NW	4	b	-	0							
	Tarkhankout ...	1028.7	23	NNW	5	0	1031.8	0	19	-	NNW	7	o	-	8							
	Soukhoum ...	1016.2	41	NW	4	r	1023.8	0	34	-21	-	0	o	22	34							
	Venice ...	1028.4	28	WNW	2	0	1028.6	0	28	-2	ESE	2	bc	7	34	27						
	Pesaro ...	1025.5	36	-	0	0	1026.8	0	37	-2	N	2	o	-	41	34						
	Rome ...	1017.9	43	-	0	0	1017.3	0	43	0	N	2	b	3	45	41						
	Viesti ...	1022.8	45	-	0	0	1023.7	0	43	-2	NW	1	o	1	46	41						
	Brindisi ...	1020.3	50	WSW	2	0	1021.5	0	50	+4	N	2	o	-	63	48						
SWEDEN.	Cagliari ...	1008.4	0	-	0	0	1008.4	0	50	-2	ESE	6	r	9	64	41						
	Palermo ...	1015.0	50	-	0	c	1011.7	0	57	+11	NNE	3	o	-	61	45						
	Tripoli ...	1007.0	52	NNE	3	bc	1008.4	0	59	+2	S	1	b	-	72	?						
	Algiers ...	1003.7	52	NNE	3	bc	1007.0	+4	48	0	WSW	2	r	-	54	48						
	Hernösand ...	1014.0	34	S	4	0	1001.5	0	41	+26	SW	6	c	-	-							
	Stockholm ...	1018.1	32	SW	2	0	1010.9	0	36	+13	WSW	4	o	-	-							
	Wisby ...	1023.5	30	WSW	4	0	1015.5	0	34	+7	WSW	6	bc	-	-							

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine
	Night.	Day.	Max.	Min.	Forenoon.	Afternoon.			Night.	Day.	Max.	Min.	Forenoon.	Afternoon.	
	1st-4h.	5h-12h.	°F.	°F.					1st-4h.	5h-12h.	°F.	°F.			
Scotland.	Oban ...	-	44	39	0	0	0.0	England, E.	Lowestoft ...	-	38	28	bc	bc. b	8.0
	Banff ...	-	46	29	c. bc	bc. c	1.1		Felixstowe ...	-	36	26	bc. b	bc. v	8.9
	Montrose ...	-	-	-	-	-	-		Walton-on-Naze ...	-	-	-	-	-	-
	Carnoustie ...	-	-	-	-	-	-		Southend-on-Sea ...	-	38	23	b	b	8.2
	St. Andrews ...	-	45	25	b	b	7.2								
Eng. N.E.	Harrogate ...	-	41	20	b	b. bc	7.1	England, S.E.	Margate ...	-	37	29	b	b	7.2
	Skegness ...	-	36	16	b	b	8.0		Ramsgate ...	-	-	-	-	-	-
									Hastings ...	-	37	22	b	b	8.7
Eng. N.W.	Morecambe ...	-	37	26	-	-	6.0		Eastbourne ...	-	39	23	b	b	7.6
	Southport ...	-	34	19	os. bc. b	bc. b	0.0		Seaford ...	-	40	21	b	b	8.5
									Brighton ...	-	40	23	b	b	8.6
Midlands.	Leamington Spa ...	-	-	-	-	-	-		Worthing ...	-	40	24	b	b	8.9
	Malvern ...	-	-	-	-	-	-		Littlehampton ...	-	39	24	b	b	8.9
	Ross-on-Wye ...	-	36	14	bcx	bcx	8.5		Bognor ...	-	40	24	b	b	8.8
Wales.	Rhyl ...	-	40	25	bcx	bcx. c	6.8	England, S.W.	Bournemouth ...	-	40	22	b	b	8.5
	Colwyn Bay ...	-	38	24	bc	bc. o	7.2		Weymouth ...	-	40	24	bcx	bcx	7.5
	Llandudno ...	-	39	29	b	b	6.8		Torquay ...	-	40	28	b	b	7.7
	Aberystwyth ...	-	28	27	c. b	bc. c	8.0		Paignton ...	-	-	-	-	-	-
	Tenby ...	-	-	-	-	-	-		Penzance ...	-	39	27	o. c	bc	4.5

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

10 <sup>th</sup> February, 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.22 7.20	G.M.T. 12.7 12.7	G.M.T. 4.52 4.54
Greenwich ...	7.26 7.24	12.14 12.14	5.2 5.4
Wick ...	8.0 7.57	12.26 12.26	4.51 4.54
Valencia ...	8.8 8.6	12.55 12.55	5.42 5.44

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 32° or above in most parts of the kingdom yesterday, to 45° or higher in Scotland. The frost at night was much less severe than of late. Sunshine was again very prevalent except at some extreme northern and north-western stations.

NOTE.—The information relating to weather is indicated by the following letters:—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air without rain falling; f. fog; g. gloom; h. hail; 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, 1917. No. 42 Sunday 11th February

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.							Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.					
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																							
Lerwick ...	1019.6	38	NE	3	o	1015.0	-2	34	-10	NNE	1	-	om	1	4	45	34	or	om	bc. asp	*		
Deerness (Orkney) ...	1018.9	44	W	5	oge	1013.5	*	40	-2	SW	4	-	opa	3	-	45	39	c.o	oge	opra	0.0		
Stornoway ...	1022.3	43	W	3	o	1015.6	-2	39	0	NW	3	-	opa	2	1	47	37	b	b.o	bc. asp	5.5		
Castlebay (Barra Isd.) ...	1024.8	44	WSW	1	o	1017.5	-2	41	-2	NNW	4	-	r	4	1	47	43	o. bc	bc. o	abpor	1.2		
Glasgow ...	1023.7	33	WSW	1	bf	1018.4	-4	29	-5	NW	1	-	o	*	Trace	40	26	bcx. bf	f. bf	fomx	1.4		
Esksdalemuir ...	1024.6	26	-	0	fe	1020.1	-2	16	-9	-	0	-	of. p	*	-	32	14	omx. b	febm	fe. bmy	2.5		
Malin Head ...	1024.5	40	E	1	cv	1019.0	-2	38	0	NW	3	W	bc	2	-	45	37	cg	cg	bc	1.1		
Blacksod Point ...	1024.8	33	E	3	bcm	1019.5	-4	32	0	SE	1	E	bcm	2	-	37	30	bm	bcm	om bcm	*		
Valencia ...	1022.7	36	E	2	oz	1019.0	-2	33	+2	ENE	2	NE	oz	*	-	41	28	bc. bz	bc. c. oz	o. c. oz	6.4		
ROCHE'S POINT.																							
Roches Point ...	1022.8	35	ENE	2	c	1018.9	*	34	+1	NNE	2	-	o	2	-	38	30	bc. o	o. bc. c	bc. om	*		
Birr Castle ...	1023.2	32	NNE	1	m	1019.4	*	32	0	-	0	-	o	*	-	41	29	cm	m	o	0.0		
Donaghadee ...	1023.4	38	NE	2	ogm	1018.3	-2	34	-1	SSW	1	-	of	2	-	39	34	of	of. om	of	*		
Liverpool (Bidston) ...	1023.7	32	E	2	o	1019.1	-2	30	+1	ESE	1	E	og	1	-	35	28	om	bcm	o	1.4		
Holyhead ...	1022.2	36	E	4	bz	1017.9	-1	34	-1	ENE	4	-	om	3	-	44	30	bz	bz	bc. om	8.0		
Pembroke (St. Ann's) ...	1022.3	34	E	1	b	1018.9	-3	39	+9	NE	1	-	ox	1	-	38	26	b	bz	bc. ox	8.2		
SCILLY ISLANDS.																							
Scilly (St. Mary's) ...	1020.4	39	E	3	o	1017.6	-3	36	+1	NW	2	E	bc	4	-	44	33	om. cm	bc. om	bc. om	4.1		
Falmouth ...	1020.4	36	ENE	2	bz	1016.6	-2	29	-7	NE	2	-	b	*	-	38	28	c.o	c.o. bc. b	bc. bc. b	0.7		
Jersey (St. Aubin) ...	1018.4	35	E	4	b	1014.9	*	31	+4	E	3	E	bcm	3	-	40	27	b	b	bc. xm	7.4		
Portland Bill ...	1020.4	34	ENE	5	b	1016.3	-3	35	+6	NE	2	-	o	2	-	37	29	b	b	bc. o	*		
Dungeness ...	1021.0	33	ENE	4	b	1015.8	-3	35	+7	ENE	3	NE	c	4	-	37	31	bc	bc	c.o. c	*		
Dover ...	1012.4	35	ENE	4	c	1017.0	-3	35	+10	ENE	4	E	o	4	-	35	23	bc. c	c	c.o	2.1		
WICK.																							
Wick ...	1020.7	39	WNW	2	r	1014.3	-5	39	+1	WSW	1	-	r	2	1	46	37	cm. bc	bc. omp	do. mgr	7.8		
Nairn ...	1022.2	37	W	1	bc	1015.4	*	39	+2	WSW	2	-	cg	2	-	44	35	c. bc	bc	bc. c	8.0		
Aberdeen ...	1022.3	40	W	3	b	1016.1	-4	31	-4	WSW	2	-	b	2	-	45	31	b	b	bc	*		
Leith ...	1023.9	37	W	1	b	1017.2	-3	31	-3	W	1	W	b	2	-	41	29	bz. b	bz	bc. b	*		
Tynemouth ...	1024.0	34	NNW	1	f	1018.7	-3	30	-4	WSW	2	-	ogm	3	-	34	30	f	f	ogm	*		
Spurn Head ...	1023.9	35	NNW	1	om	1019.0	-1	33	+1	N	2	-	om	2	0.2	36	31	f	f. om	om	0.0		
YARMOUTH.																							
Yarmouth ...	1023.3	36	E	2	o	1018.1	-2	35	-1	NNE	2	-	om	2	-	37	34	om	om	om	0.0		
Clacton-on-Sea ...	1022.5	36	NNE	3	o	1017.7	-2	35	0	NE	2	-	o	2	0.3	36	34	c.o	ogm	ogmp	0.0		
Nottingham ...	1023.9	32	E	1	o	1018.8	*	32	+3	E	1	E	o	*	-	33	28	om	om	om	0.0		
Benson (Oxon.) ...	1022.3	34	ENE	3	o	1016.8	-3	34	+4	ENE	2	-	o	*	-	37	30	bc	o	o	*		
Sth Farnborough ...	1021.4	34	ENE	2	o	1016.4	-3	34	+4	ENE	3	-	o	*	-	38	29	c.o. bc	bc. u	o	3.7		
London (Kew Obsy.) ...	1022.4	36	NE	4	om	1017.2	-3	35	+3	ENE	2	-	om	*	Trace	36	32	cmx. om	om	om	0.1		
NORTHERN EUROPE.																							
Spitsbergen ...	995.8	23	NE	3	o	996.7	+1	21	-2	W	2	-	c	3	*	23	18	*	*	*	*		
Vardö ...	1002.7	32	E	4	b	1004.7	0	28	-12	NW	2	-	o	2	-	32	25	*	*	*	*		
Bodö ...	1013.0	34	NW	5	c	1014.2	0	34	-2	W	4	-	s	5	4	37	32	*	*	*	*		
Christiansund ...	1015.8	37	NNW	5	o	1014.8	0	28	-13	NNE	2	-	b	2	-	37	28	*	*	*	*		
Skudesnaes ...	1010.6	34	WNW	2	b	1013.8	+1	30	-6	NW	1	-	b	1	-	39	30	*	*	*	*		
Færder (X'ania Fjord) ...	1011.6	37	NW	4	b	1013.8	+1	32	-7	NNW	2	-	b	2	-	43	32	*	*	*	*		
The Scaw (Skagen) ...	1017.1	36	NW	3	b	1015.1	-1	34	-2	NW	2	-	b	1	-	37	30	*	*	*	*		
Blaavands Huk ...	1010.3	37	WNW	3	b	1013.5	+2	30	-7	-	0	-	b	*	-	39	28	*	*	*	*		
Copenhagen ...	1007.9	34	WNW	6	m	1011.5	+2	32	-2	NNW	4	-	b	2	-	36	30	*	*	*	*		
Bornholm ...	1022.3	34	NW	1	o	1017.4	-2	34	+2	NW	1	-	o	0	-	36	34	*	*	*	*		
FRANCE, &c.																							
The Heider ...	1017.9	30	ENE	3	b	1015.6	*	25	+2	ENE	3	*	m	1	-	32	25	*	*	*	*		
C. Gris Nez ...	1016.8	39	NE	4	c	1014.9	-1	33	+6	NE	2	*	o	3	-	45	32	*	*	*	*		
Brest (St. Mathieu) ...	1014.2	41	E	2	o	1012.0	-3	36	+4	ESE	2	*	c	*	-	52	36	*	*	*	*		
Rochefort (Ile d'Aix) ...	1014.0	50	W	2	r	1012.6	-1	45	+9	S	2	*	b	1	1	52	41	*	*	*	*		
Biarritz ...	1018.4	25	NE	1	b	1015.0	-2	10	-4	NE	1	-	b	*	-	36	10	*	*	*	*		
Paris ...	1019.6	25	E	4	m	1018.4	*	18	+3	-	0	*	m	*	-	32	16	*	*	*	*		
Belfort ...	1018.6	23	N	1	b	1017.0	*	12	-3	N	1	*	b	*	-	32	12	*	*	*	*		
Lyons ...	1015.1	45	SE	2	b	1014.6	0	48	+5	-	0	*	bc	2	60	55	37	*	*	*	*		
Nice ...	1015.6	43	-	0	o	1014.7	0	41	+2	WNW	1	N	r	*	8	50	39	*	*	*	*		
Perpignan ...	1012.7	50	N	1	c	1012.4	-1	41	-2	-	0	W	b	1	?	52	41	*	*	*	*		
Sanguinaire ...	1016.2	45	W	1	o	1017.1	-1	37	0	-	0	-	r	*	7	48	36	*	*	*	*		
SOUTHERN STATIONS.																							
Corunna ...	1014.4	52	SSW	2	o	1009.5	-3	46	+1	NNE	4	-	r	-	31	54	46	*	*	*	*		
Madrid ...	1012.3	*	NE	4	bc	1015.1	0	50	-2	NNE	8	*	o	-	3	61	57	*	*	*	*		
Lisbon ...	1013.1	61	SW	4	c	1010.1	-1	55	+1	SW	4	SW	r	4	12	61	55	*	*	*	*		
Azores (Horta) ...	*	*	*	*	*	1012.8	+1	52	-3	WNW	3	-	o	3	9	61	50	*	*	*	*		
Madeira ...	*	*	*	*	*	1006.4	-1	54	-5	-	0	-	o	4	Trace	63	45	*	*	*	*		
Gibraltar ...	1012.3	61	-	0	f	1008.4	0	55	-6	SW	3	-	b	2	-	66	54	*	*	*	*		
Malta ...	1012.6	59	-	0	o	1010.4	+1	54	0	SSE	1	-	o	*	2	64	54	*	*	*	*		
Limassol ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Alexandria ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Cairo (Helwan) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	24 HOURS ENDED 9 h. TO-DAY.				SOUTH KENSINGTON.				
15 h. Yester- day.	9 h. To-day.	Max.	Min.		Min. on Grass.	Rain- fall.	Morn- ing.	After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.			
GREENWICH (Royal Observatory)	83	92	0.0	36	34	31	-	c	c	o	Total.	Average Rate.	Max. Rate.
CITY (Bunhill Row) ...	85	96	0.0	37	35	32	-	om	om	om	Joules.	Hilliwatts.	Hilliwatts.
WESTMINSTER (St. James's Park)	81	95	0.0	37	34	31	-	o	o	o	201	5.8	15.0
CAMDEN SQ. (British Rainfall) ...	*	94	0.0	34	31	26	-	c	ox	ox	Temperatures at Greenwich and Cam- den Square are from Glaisher screens.		
HAMPSTEAD (Reservoir) ...	*	87	0.0	40	35	34	Trace	om. o	om o	o			
S. KENSINGTON (Museum Grounds)	*	*	*	*	*	*	*	*	*	*			
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*			

### RAINFALL.

Equivalents of Millimetres  
in Inches.

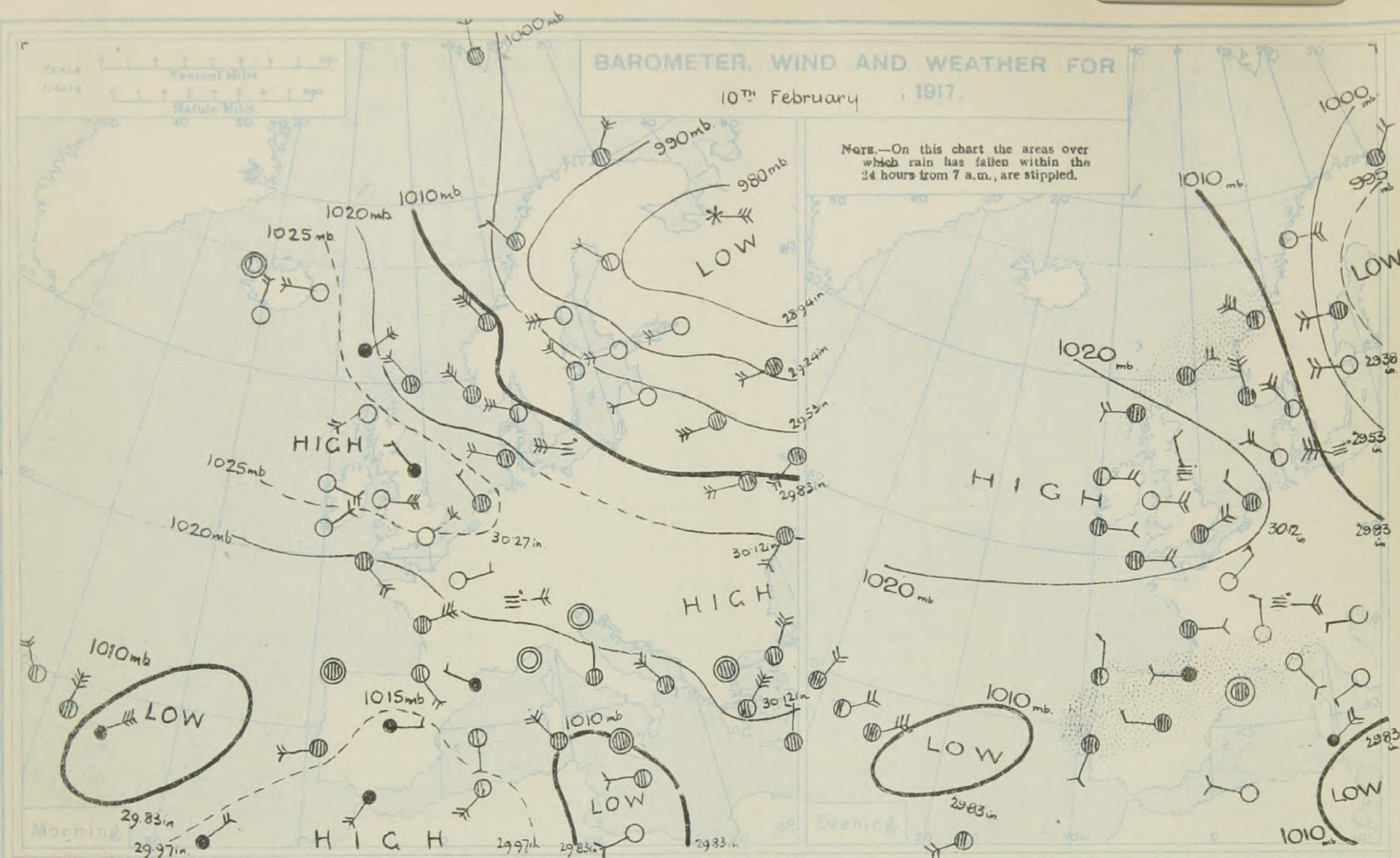
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14

## 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	1.62
17	0.67	42	1.66
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.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

Wind light or moderate, mainly between South-West and North-West; variable sky, some rain and mist; moderate temperature.

Wind light, mainly between North and North-East; much cloud, some mist or fog locally; cold.

Wind light from some Northerly point; much cloud, some mist or fog; cold.

Northerly or North-Easterly light winds; fair or cloudy, mist locally; sea slight.

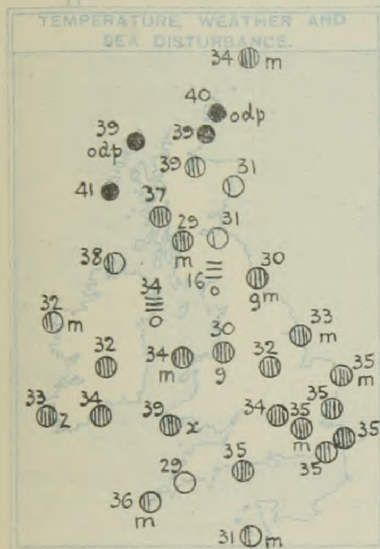
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 11<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

The changes in pressure are still very gradual and afford no indication of any important change in the general type of weather 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 ½ clouded. ○ sky ¾ clouded.

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

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

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy High

H I G H

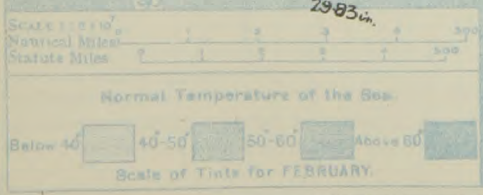
Barometer

falling

generally

L O W

H I G H





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.			MORNING								
	Barom. Milli- bars at M.S.L.	WIND.			Weather.	BAROMETER.		TEMP.		WIND.			Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.				
		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.	Weather.		Max.	Min.			Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.	Weather.		
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	978.3	14	S	3	0	975.6	-1	3	-7	ESE	5	S	-	* °F	* °F	Isafjord	1027.2	25	-3	-	0	b	
	Gorki	1007.1	23	W	4	S	1000.7	-1	28	+34	W	5	0	3	* -6	* -6	Reykjavik	1027.5	28	-6	-	0	b	
	Velieki Luki	999.8	32	SW	4	0	996.3	*	27	+17	SW	4	bc	2	* 10	* 10	Vestmanna	1025.9	28	-3	N	3	b	
	Hangö	1003.1	32	WNW	2	bc	992.8	-5	28	-4	WNW	5	b	-	* 25	* 25	Seydisfjord	1026.6	23	-13	W	2	b	
	Riga	1007.0	34	W	4	c	1001.9	-4	28	-4	W	2	b	-	* 28	* 28	Thorshavn	1020.2	27	-14	-	0	0	
	Petrograd	991.7	27	W	6	b	988.2	-4	25	+2	W	3	b	-	-	21	-							
	Moscow	996.4	12	SW	2	S	989.2	0	28	+41	W	3	0	3	* -13	* -13								
	Kiev	1018.6	18	W	5	S	1011.6	-4	21	+25	W	4	0	-	* -4	* -4								
	Kharkov	1014.2	16	SSE	2	S	1008.0	-2	19	+23	WSW	4	0	-	* -4	* -4								
	Kishinev	1028.2	12	-	0	c	1020.3	-2	14	+14	WNW	2	0	-	* 0	* 0								
MEDITERRANEAN.	Elisabetgrad	1023.1	14	WNW	4	0	1014.4	-5	19	+23	WNW	5	0	-	* -4	* -4								
	Nicolaiev	1027.4	10	WSW	4	c	1019.0	*	18	+20	WSW	4	0	-	* -2	* -2								
	Odessa	1029.9	12	W	3	0	1022.0	-7	16	+15	WSW	3	0	-	* +1	* +1								
	Tarkhankout	1031.5	27	N	4	0	1022.6	*	32	+13	WNW	4	0	-	* 18	* 18								
	Soukhom	1023.6	36	NNE	1	0	1024.7	-1	27	-7	-	0	b	4	* 27	* 27								
	Venice	1026.2	30	NE	1	b	1021.5	*	27	-1	-	0	bc	-	36 °F	25 °F	British Isles			b 7	b 18			
	Pesaro	1026.4	30	WNW	3	c	1022.2	*	32	-5	NNW	4	0	-	39 °F	28 °F	France			7	18			
	Rome	1017.2	41	N	1	b	1014.8	*	39	-4	WSW	1	0	-	54 °F	37 °F	Norway			7	18			
	Viesti	1022.7	43	WNW	1	0	1019.3	*	43	0	NW	2	0	-	48 °F	41 °F	Sweden			7	17			
	Brindisi	1019.7	50	W	3	c	1014.7	*	50	0	NW	4	0	2	52 °F	48 °F	Denmark			7	18			
SWEDEN.	Cagliari	1009.7	57	SE	5	r	1010.0	*	52	+2	NW	4	0	8	50 °F	43 °F	Holland			7	18			
	Palermo	1026.4	30	WNW	3	c	1022.2	*	32	-15	NW	4	0	-	39 °F	29 °F	Italy			7	20			
	Tripoli	1012.7	50	W	3	bc	1009.3	*	63	+4	WSW	2	b	-	62 °F	59 °F	Egypt			6	18			
	Algiers	1012.7	50	W	3	bc	1015.5	+2	48	0	WSW	4	bc	1	55 °F	43 °F	Corunna			7	16			
	Hernösand	1000.7	36	SW	6	b	993.0	*	34	-7	W	6	b	*	*	*	Madrid			8	16			
	Stockholm	1009.9	39	WNW	4	b	1002.3	*	34	-2	NNW	4	bc	*	*	*	Lisbon			7	21			
	Wisby	1011.5	36	WSW	4	b	1005.6	*	34	0	WSW	2	bc	*	*	*	Azores			8	17			
																		Madeira			7	21		
																		Malta			8	—		
																		Limassol			6	—		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	-	-	44	31	0	bc	3.3	England, E.	Lowestoft ... ..	-	-	37	32	0	0	0.0
	Banff ... ..	-	-	47	35	b	b	2.1		Felixstowe ... ..	-	-	36	33	bc.c.o.c.	0.c.o.	0.0
	Montrose ... ..	-	-	-	-	-	-	-		Walton-on-Naze ... ..	-	-	37	27	0	02	0.0
	Carnoustie ... ..	*	*	-	-	-	-	-		Southend-on-Sea ... ..	-	-	37	27	0	02	0.0
	St. Andrews ... ..	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Eng. N.E.	Harrogate ... ..	-	-	32	15	0	0	0.0	England, S.E.	Margate ... ..	-	-	37	32	bc.c	c	0.3
	Skegness ... ..	-	-	-	-	-	-	-		Ramsgate ... ..	-	-	36	23	b	bc 0	4.6
Eng. N.W.	Morecambe ... ..	-	-	38	20	b	bc	4.2		Hastings ... ..	-	-	39	20	0	0	4.4
	Southport ... ..	-	-	38	20	b	bc	4.2		Eastbourne ... ..	-	-	39	21	b	0	6.6
	-	-	-	-	-	-	-	-		Seaford ... ..	-	-	39	22	b	bc	7.5
	-	-	-	-	-	-	-	-		Brighton ... ..	-	-	40	21	b	bc	8.3
	-	-	-	-	-	-	-	-		Worthing ... ..	-	-	38	20	b	b	7.9
Midlands.	Leamington Spa ... ..	-	-	35	20	cmx	cm.	1.0		Littlehampton ... ..	-	-	39	22	b	bc	8.5
	Malvern ... ..	-	-	-	-	-	-	-		Bognor ... ..	-	-	41	21	b	b	7.7
	Ross-on-Wye ... ..	-	-	-	-	-	-	-	Bournemouth ... ..	-	-	-	-	-	-	-	
Wales.	Rhyl ... ..	-	-	40	30	b	b	5.0	England, S.W.	Weymouth ... ..	-	-	38	29	b	b	4.8
	Colwyn Bay ... ..	-	-	37	32	0.c.b	bc.c	6.5		Torquay ... ..	-	-	40	31	bc	b	2.0
	Llandudno ... ..	-	-	-	-	-	-	-		Paignton ... ..	-	-	-	-	-	-	-
	Aberystwyth ... ..	-	-	-	-	-	-	-		Penzance ... ..	-	-	-	-	-	-	-
	Tenby ... ..	-	-	-	-	-	-	-		Newquay ... ..	-	-	-	-	-	-	-
									Bude ... ..	-	-	-	-	-	-	-	
									Ilfracombe ... ..	-	-	-	-	-	-	-	
									Weston-s-Mare ... ..	-	-	-	-	-	-	-	

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

11.12. February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.20	12.7	4.54
	7.12	12.7	4.56
Greenwich	7.24	12.14	5.4
	7.22	12.14	5.6
Wick	7.57	12.26	4.54
	7.54	12.26	4.57
Valencia	8.6	12.55	5.44
	8.4	12.55	5.46

## PILOT BALLOON ASCENTS for the PAST WEEK.

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

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

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

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 43.

MONDAY.  
12<sup>th</sup> February.

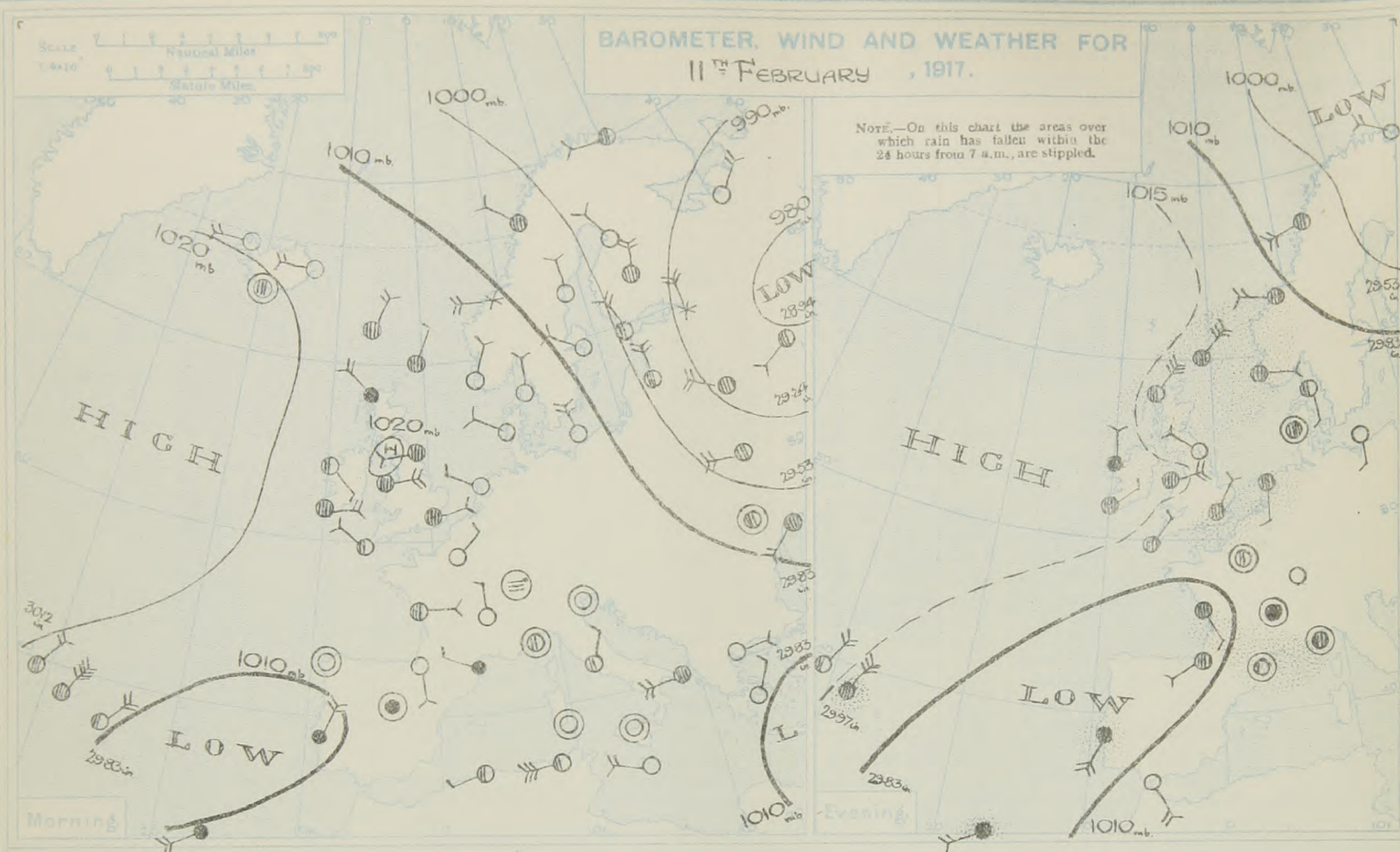
STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS					Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F	WIND.		Weather.	Baromet. Change in 24 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea (0-9)	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12			Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																					
Lerwick	1012.7	36	NE	5	og	+1	32	-1	NNE	2	-	bc	2	11	36	32	os	sp og	bc	*	
Deerness (Orkney)	1012.2	36	NNE	5	bc	*	36	-4	WNW	4	-	bc	3	1	43	34	pd o	o cb bc	cx	0.0	
Stornoway	1013.9	37	NE	6	og	+3	33	-6	N	1	-	b	1	1	43	31	o. bc	bc. og	bc. b	2.2	
Castlebary (Barra Isd.)	1014.7	41	WNW	2	bc	+4	37	-4	N	3	N	c	3	2	44	36	r. o. c	c. bc	c. b. o. s	1.2	
Glasgow	1013.9	37	SW	1	d	+5	33	+4	NNE	2	-	b	*	3	37	28	me	ome	orsp. b	0.0	
Eskdalemuir	1015.3	24	-	0	ofe	+4	33	+17	NNE	6	-	o	*	2	33	15	ofe	ofe	f. om. s	0.0	
Malin Head	1015.8	29	N	3	cy	+5	38	0	NNE	6	N	bcx	5	3	42	36	bcx	cy	bcx	2.3	
Blacksod Point	1017.6	37	N	2	cmd	+3	37	+5	N	5	N	bc	4	2	39	32	bc	cmd	bc	*	
Valencia	1016.6	35	NE	1	og	0	36	+3	-	0	-	o	2	-	37	33	og	og	og. c	0.0	
NORTH BRITISH ISLANDS.																					
Roche's Point	1015.7	35	NNE	2	o	*	35	+1	N	2	-	o	2	-	37	34	om	om	o	*	
Birr Castle	1016.3	34	ESE	1	o	*	32	0	NE	1	-	o	*	0.1	35	29	o	o	oswx	0.0	
Donaghadee	1014.2	38	SSW	2	cm	+4	37	+3	ESE	5	-	omgp	4	0.2	41	34	bcm	cm	comgp	*	
Liverpool (Bidston)	1015.6	30	ESE	1	o	0	32	+2	-	0	-	og	0	1	32	29	og	og	os	0.0	
Holyhead	1015.2	34	ESE	4	om	+1	37	+3	SW	2	-	om	0	-	37	32	om	om	om	0.0	
Pembroke (St. Ann's)	1014.8	32	NNE	2	o	+1	31	-8	NE	2	E	c	1	-	35	29	o	o	o. c	0.0	
SOUTH BRITISH ISLANDS.																					
Scilly (St. Mary's)	1014.2	37	NE	1	om	0	37	+1	E	2	E	om	3	-	39	35	cm	om	om	0.1	
Falmouth	1013.5	23	NNE	1	og	0	33	+4	NNE	1	-	o	*	-	36	27	og	og	og. o	0.0	
Jersey (St. Aubin)	1011.6	35	NE	2	bm	*	34	+3	NE	1	-	om	1	-	37	25	bc. c. bc	b	bcx. om	3.7	
Portland Bill	1012.9	35	NNE	2	o	0	34	-1	NNE	3	NE	o	2	-	37	33	o	og	o	*	
Dungeness	1011.6	36	NE	2	c	0	35	0	N	3	-	o	3	0.3	37	35	c	c. op	o. od	*	
Dover	1012.6	35	-	0	o	?	33	-2	NW	4	NW	s	6	10	37	32	o	om	epsm	0.0	
IRELAND.																					
Wick	1012.4	38	NW	4	o	+4	36	+4	NNE	4	-	bc	4	2	40	35	omgp	omgp	omj. bc	0.0	
Nairn	1013.0	37	W	1	bc	*	34	-5	WNW	1	-	bc	2	1	42	33	cd	bc	og. c	0.0	
Aberdeen	1012.6	38	WNW	3	o	+4	35	+4	NW	3	NE	b	2	0.3	44	30	b. bcx	bc. c. op	dp. bc. b	4.8	
Leith	1012.6	38	W	1	o	+2	36	+5	NE	2	NE	bc	3	6	39	29	bc. b. bc	cz. cmd	omr. bc	*	
Tynemouth	1013.2	29	WNW	2	bcm	+2	39	+9	NNE	4	NE	bcx	4	1	39	29	ogm	em	cmr. r	*	
Spurn Head	1014.7	33	NNE	1	om	0	32	-1	N	2	-	om	3	-	34	30	om	om	om	0.0	
SCOTLAND.																					
Yarmouth	1013.7	35	NE	1	o	+1	35	0	NNE	4	-	fd	2	2	37	34	om	om	omgd	0.0	
Clacton-on-Sea	1013.1	35	NE	2	o	0	34	-1	WNW	3	-	o	2	2	36	33	ognd	ognd	ognd	0.0	
Nottingham	1014.4	23	E	1	o	0	32	0	W	1	-	om	*	Trace	35	28	osm	osm	o	0.0	
Benson (Oxon.)	1013.6	34	NNE	1	o	+1	32	+2	N	1	-	om	*	0.3	34	31	os	o	o. om	*	
St. Farnborough	1012.4	34	NE	1	o	+1	33	-1	N	1	-	om	*	0.1	36	32	orsm	rsom	osr. om	0.0	
London (Kew Obs.)	1013.1	35	NNE	2	om	+2	34	-1	WNW	1	-	om	*	Trace	36	33	om	om	om	0.0	
NORTHERN EUROPE.																					
Spitsbergen																	UPPER AIR.				
Vardö	997.1	19	NW	3	b	983.8	0	18	S	2	-	s	4	*	23	18	South Farnborough. Pilot Balloon Ascent at 7.30 am  Wind at 600 metres NNE 8 m/s 300 " NW 4 " Surface NW 3 "				
Bodö	1004.6	20	WSW	2	c	1001.1	+3	23	NW	6	-	o	3	-	32	21					
Christiansund	1010.9	32	W	2	o	1011.9	0	32	NW	3	-	o	4	9	34	32					
Skudesnaes	1011.7	34	E	2	o	1013.1	0	28	N	4	-	b	2	?	34	25					
Færder (Xania Fjord)	1012.2	30	SW	1	b	1011.1	+1	27	N	2	-	c	1	-	32	25					
The Scaw (Skagen)	1014.3	30	-	0	b	1011.3	0	30	S	1	-	bc	1	-	36	28					
Blaavands Huk	1012.8	34	-	0	o	1010.0	0	32	W	1	-	c	1	-	36	28					
Copenhagen	1014.1	32	-	0	o	1011.7	-1	30	SSE	1	-	m	*	-	34	28	Cairo, 11 <sup>th</sup> Thunderstorm, 20h.				
Bornholm	1013.7	30	S	1	b	1012.3	0	28	SSW	3	-	f	1	-	32	25					
FRANCE, &c.																					
The Helder	1013.0	34	S	1	o	1009.9	+1	32	NE	1	-	o	0	2	37	32	GALES Duration and Extreme Force in British Islands.				
C. Gris Nez	1011.7	32	ESE	3	c	1010.0	0	34	N	4	*	o	4	2	36	32					
La Hève	1011.3	27	-	0	o	1011.9	*	?	-	0	*	bc	1	-	30	27					
Brest (St. Mathieu)	1012.6	35	NE	2	o	1012.6	+1	37	E	3	*	o	2	-	43	33					
Rochefort (Ile d'Aix)	1009.6	41	SSE	1	o	1009.7	0	35	NNE	1	*	o	*	Trace	46	34					
Biarritz	1009.9	51	SW	2	o	1009.9	-1	46	SSE	1	*	b	1	-	55	43					
Paris	1010.9	27	-	0	m	1011.0	+1	19	NE	1	-	f	*	-	36	10	Gales Duration and Extreme Force in British Islands.				
Belfort																					
Lyons	1012.8	31	-	0	r	1011.7	*	32	+20	-	0	*	o	*	34	12					
Nice	1011.7	46	-	0	o	1008.2	-3	39	-9	-	0	*	b	3	54	37					
Perpignan	1011.8	43	-	0	b	1012.4	+1	36	-5	WSW	1	W	b	1	52	32					
Sanguinaire																					
Corunna																					
Madrid																					
SOUTHERN STATIONS.																					
Lisbon	1008.0	55	SW	4	r	1005.7	-2	54	SSE	3	-	o	6	6	55	46	Vertical Component of Solar Radiation per square Centimetre during Yesterday.  Total.      Average Rate.      Max. Rate. Joules.      Milliwatts.      Milliwatts. 75              2.2              5.5  Temperatures at Greenwich and Cam- den Square are from Glaisher screens.				
Azores (Horta)	1013.2	*	NNE	6	c																
Madeira	1007.3	59	SW	3	r	997.9	0	54	-1	W	3	SW	r	3	32	59					
Gibraltar	1014.2	57	SSE	3	b	1014.8	*	50	-	E	3	*	o	1	8	65					
Malta		*	*	*	*	1016.7	+1	52	0	WNW	3	-	b	2	-	57					
Limassol		*	*	*	*	1004.6	+2	52	-2	W	1	W	o	4	2	55					
Alexandria	1007.8	59	N	2	o	1009.7	0	50	-5	E	1	-	r	2	12	68					
Cairo (Helwan)	1010.0	50	NW	6	o	1010.9	+3	50	-4	SE	2	NW	bc	3	70	48					
LONDON OBSERVATIONS.																					
HUMIDITY.		Sun- shine for Yester- day. Hours.		24 HOURS ENDED 9 H. TO-DAY.					SOUTH KENSINGTON.												
				TEMPERATURE.		RAIN-FALL.		WEATHER.													
		15 h. Yester- day.	9 h. To- day.	Max.	Min.	On Grass.	mm.	Morn- ing.	After- noon.	Night.											
GREENWICH (Royal Observatory)		92	81	0.0	36	33	31	0.3	oe	oe	oe. o										
CITY (Bunhill Row)		*	*	0.0	*	*	*	*	*	*	*										
WESTMINSTER (St. James's Park)		90	84	0.0	37	34	32	-	oe. m.	om	oe										
CAMDEN SQ. (British Rainfall)		*	81	0.0	37	32	30	Trace	-	-	*										
HAMPSTEAD (Reservoir)		*	75	0.0	34	30	26	-	oe. s	o	oe										
S. KENSINGTON (Museum Grounds)		*	80	0.0	37	34	33	Trace	ors. ad	om	om. o										
RICHMOND PARK		*	*	0.0	*	*	*	*	*	*	*										

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

STORM WARNINGS.

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

Signals hoisted  
yesterday.

South  
Cone.

North  
Cape.

Signals hoisted  
this morning.

South  
Code.

North  
Cone.

NO  
WARNINGS  
ISSUED.

Wind mainly Northerly, light or moderate; fair generally; temperature rather low.

Wind light, from some Northerly point; much cloud generally, mist locally, some slight rain, sleet or snow in places; temperature rather low.

Same as Nos. 0 to 2.

Same as Nos. 3 to 5.

Northerly and North-Easterly winds, light or moderate; mostly fair; rather cold.

Easterly and North-Easterly winds, light; sea slight; cloudy or overcast.

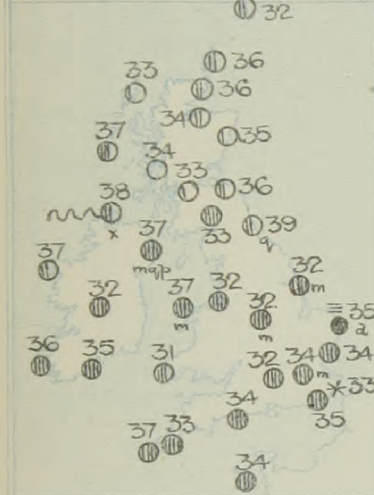


# SYNOPTIC CHART FOR THE MORNING OF Monday, 12<sup>th</sup> FEBRUARY, 1917.

## GENERAL INFERENCE

The rise of the barometer which is in progress in the north-west and north, will extend to the whole kingdom.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



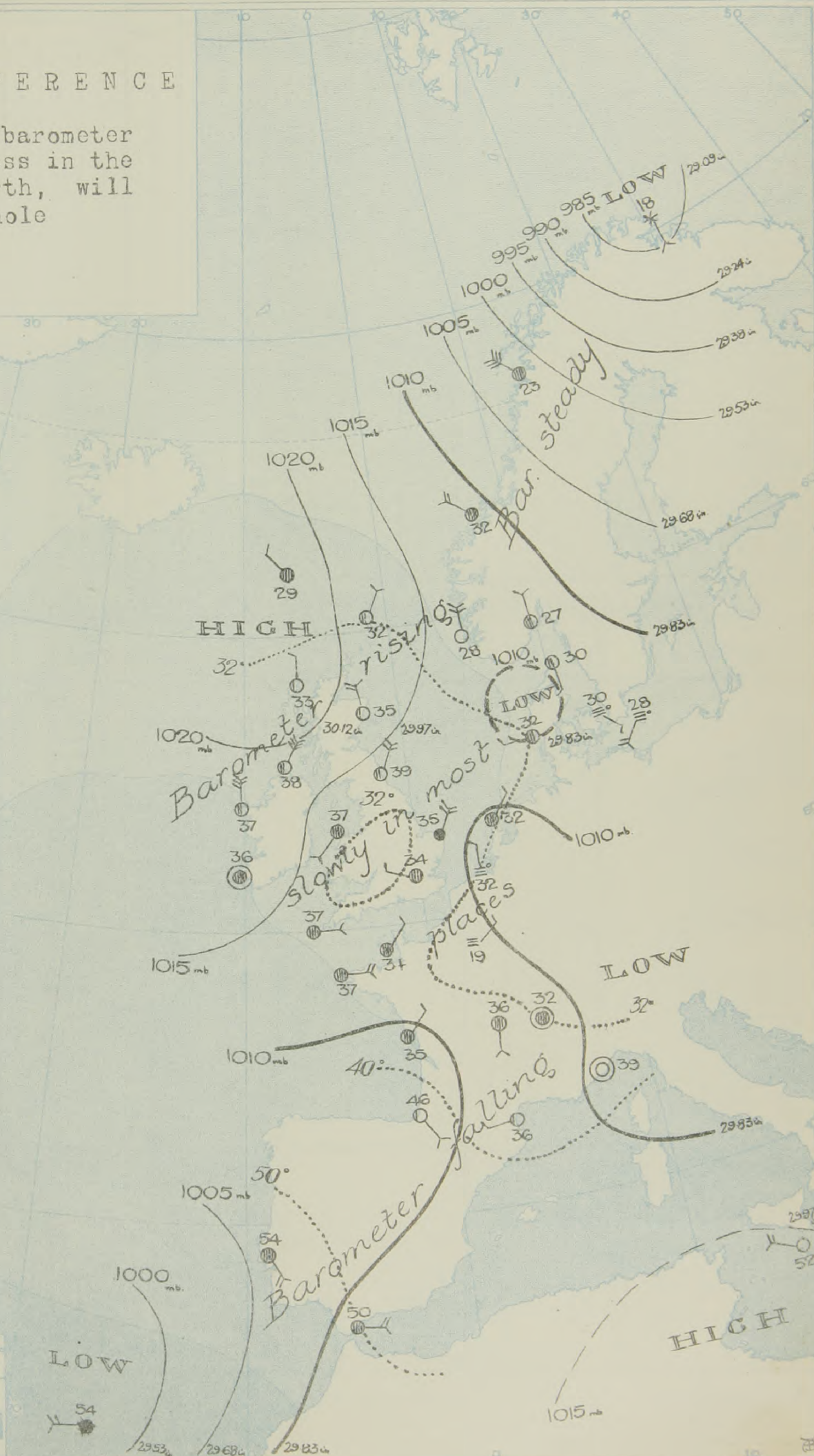
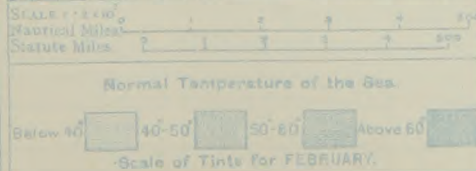
### EXPLANATION.

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

Inches.  
31

30

29





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.			MORNING.							
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Weather.	Rain fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		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.			Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.		
RUSSIA 7 a.m. and 9 p.m. Local Time.																							
Archangel ...						985.5	+6	-6	-9	NE	3	b	—	°F	°F	Isafjord ...	1019.9	32	+7	W	3	b	
Gorki ...	991.1	28	NNW	1	b	988.3	-3	27	-1	NW	4	o	15	*	23	Reykjavik ...	1020.7	30	+2	ESE	1	c	
Velieki Luki ...	986.4	28	SW	5	o	986.6	*	25	-2	SW	3	o	1	*	23	Vestmanna ...	1021.8	34	+6	—	0	c	
Hangö ...	989.0	28	WNW	4	c	999.3	+5	18	-10	NNW	3	bc	—	*	14	Seydisfjord ...	1018.6	30	+7	W	4	b	
Riga ...	994.3	27	WNW	6	r	999.3	+4	21	-7	N	4	c	—	*	21	Thorshavn ...	1016.8	42	+9	NNE	3	o	
Petrograd ...	980.8	27	WNW	3	o	989.0	+4	16	-9	N	4	s	1	30	16								
Moscow ...	985.1	27	WSW	3	o	980.6	-1	30	+2	WSW	2	c	1	*	25								
Kiev ...	1003.1	25	W	5	o	986.8	-1	28	+7	WNW	4	c	1	*	21								
Kharkov ...	1005.9	23	WSW	3	o	994.6	-4	25	+6	WSW	3	o	—	*	19								
Kishinev ...	1011.3	23	—	0	b	1006.7	-2	16	+2	—	0	c	—	*	?								
Elisabetgrad ...	1006.4	?	W	3	o	999.4	-5	30	+11	WNW	5	o	—	*	19								
Nicolaiev ...	1010.7	27	WSW	4	o	1004.6	*	25	+7	WSW	3	o	—	*	10								
Odessa ...	1012.4	23	WSW	3	b	1007.1	-2	19	+3	NW	3	b	—	*	18								
Tarkhankout ...	1013.9	37	W	3	bc	1007.8	*	28	-4	W	4	b	—	*	20								
Soukhoum ...	1017.2	32	—	0	b	1011.8	-2	30	+3	NE	2	bc	—	*	27								
MEDITERRANEAN.																							
Venice ...	1016.7	32	W	1	b	1016.0	*	25	-2	—	0	b	—	41	25	British Isles ...				h	h		
Pesaro ...	1017.9	30	W	1	b	1016.4	*	25	-7	WSW	1	b	—	37	25	France ...				7	18		
Rome ...	1013.7	45	WSW	1	bc	1014.4	*	36	-3	NNE	1	bc	—	52	34	Norway ...				7	18		
Viesti ...	1016.1	45	NW	2	bc	1014.4	*	43	0	NW	2	o	—	48	43	Sweden ...				7	17		
Brindisi ...	1013.6	50	NNE	4	o	1012.7	*	48	-2	W	4	o	—	54	48	Denmark ...				7	18		
Cagliari ...	1011.1	57	NE	4	r	1014.7	*	50	-2	—	0	b	10	63	46	Holland ...				7	18		
Palermo ...						1012.9	*	50	0	—	0	b	—	61	43	Italy ...				7	20		
Tripoli ...						1014.4	*	57	-6	SW	1	b	1	64	56	Egypt ...				6	18		
Algiers ...	1018.4	54	WNW	2	b	1018.6	+1	48	0	WSW	1	bc	—	59	46	Corunna ...				7	16		
SWEDEN.																							
Hernösand ...	996.2	37	W	4	o	1007.8	*	21	-13	N	2	b	*	*	*	Madrid ...				8	16		
Stockholm ...	999.2	32	WNW	4	b	1008.0	*	25	-9	NW	2	b	*	*	*	Lisbon ...				7	21		
Wisby ...	1001.5	36	WNW	6	b	1008.2	*	21	-13	N	4	b	*	*	*	Azores ...				8	17		
																Madeira ...				7	21		
																Malta ...				8	—		
																Limassol ...				6	—		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine Hr.	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine Hr.
	Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.	
	Mm.	Mm.	°F.	°F.					Mm.	Mm.	°F.	°F.			
Scotland.	Oban ...	Trace	42	32	o. bc	p. c	0.0	England, E.	Lowestoft ...	—	—	—	—	—	—
	Banff ...	Trace	43	35	c.	ep. r	0.1		Felixstowe ...	1	—	38	34	op. c.	0
	Montrose ...	—	—	—	—	—	—		Walton-on-Naze ...	—	—	—	—	—	0.0
	Carnoustie ...	—	—	—	—	—	—		Southend-on-Sea ...	—	—	—	—	—	—
	St. Andrews ...	—	—	—	—	—	—		—	—	—	—	—	—	—
Eng. N.E.	Harrogate ...	—	—	29	27	m. o	0.0	England, S.E.	Margate ...	—	—	—	—	—	—
	Skegness ...	—	—	34	32	f. o	0.0		Ramsgate ...	—	—	—	—	—	—
Eng. N.W.	Morecambe ...	—	—	—	—	—	—		Hastings ...	—	—	—	—	—	—
	Southport ...	—	—	31	20	c. o	0.0		Eastbourne ...	—	—	39	34	—	0.0
Midlands.	Leamington Spa ...	—	—	—	—	—	—		Seaford ...	—	—	—	—	—	—
	Malvern ...	—	—	—	—	—	—		Brighton ...	—	—	—	—	—	—
	Ross-on-Wye ...	—	—	—	—	—	—		Worthing ...	—	—	38	26	0	0.0
Wales.	Rhyl ...	—	—	32	28	x. c. o	0.0	England, S.W.	Littlehampton ...	—	—	37	32	0.	0.0
	Colwyn Bay ...	—	—	33	26	o. c	0.0		Bognor ...	—	—	—	—	—	—
	Llandudno ...	—	—	36	27	o.	0.0		Bournemouth ...	—	—	36	30	0.	0.0
	Aberystwyth ...	—	—	35	26	o. c.	0.0		Weymouth ...	—	—	—	—	—	—
	Tenby ...	—	—	—	—	—	—		Torquay ...	—	—	39	34	0.	0.0
	—	—	—	—	—	—	—		Paignton ...	—	—	—	—	—	—

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

12 <sup>th</sup> Feb. 1917.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.48	12.7	4.56
Greenwich ...	7.16	12.7	4.58
Wick ...	7.21	12.14	5.6
Valencia ...	7.20	12.14	5.8
—	7.54	12.26	4.57
—	7.52	12.26	5.0
—	8.4	12.55	5.46
—	8.2	12.55	5.48

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 35° or above in most parts of the kingdom and the frost at night was not severe. Rain or snow fell over a considerable area, and very little sunshine was recorded except locally in Scotland and in the Channel Islands; at most stations there was none.

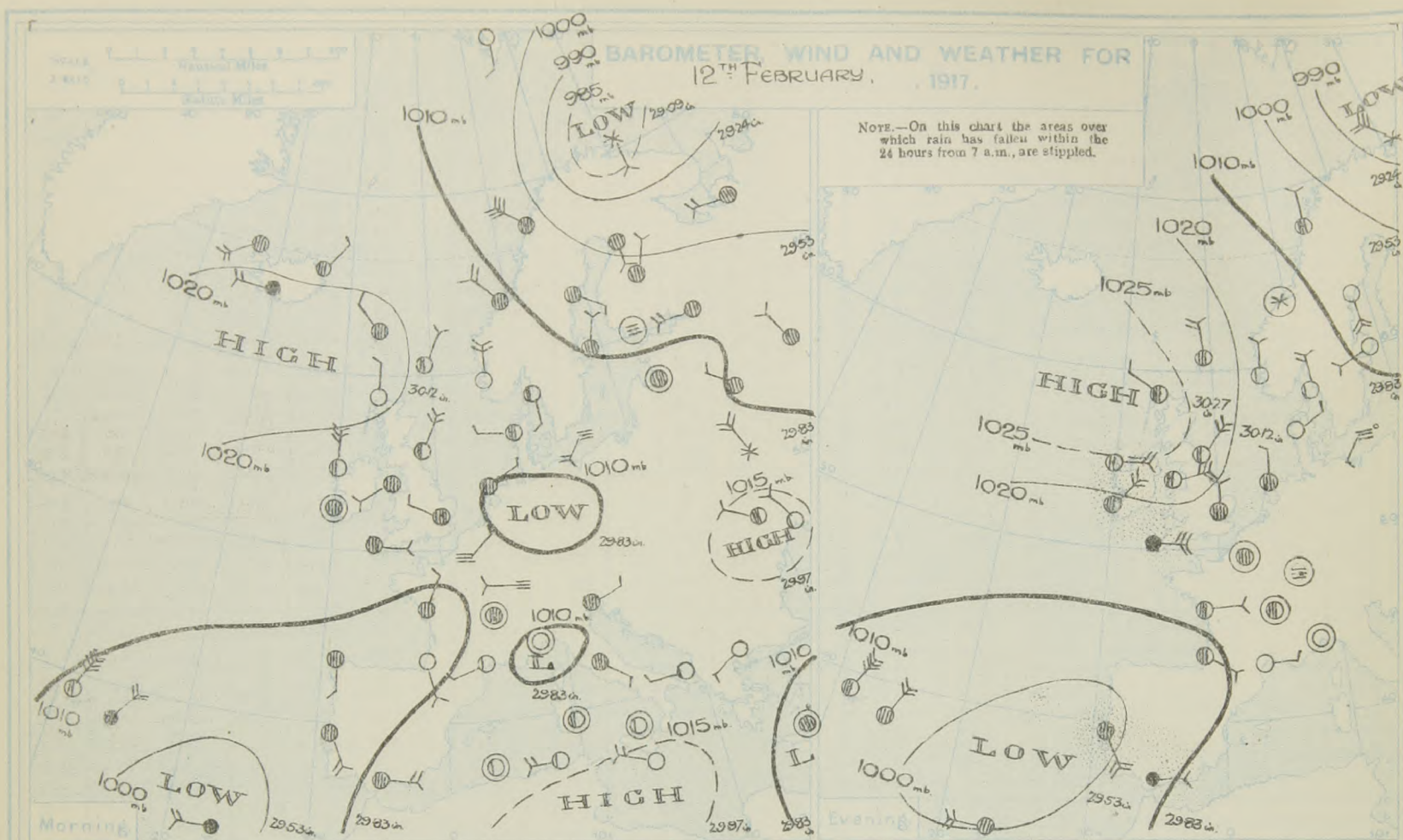
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; 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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\* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.





#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

NO  
WARNINGS  
ISSUED

Western Channel and Bay 11

#### FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

Moderate Westerly winds; fair weather; rather cold

Light indefinite winds; fair to cloudy weather; some mist; rather cold.

Moderate Easterly winds; fair weather, some mist; becoming colder.

Same as No. 2.

Same as No. 3.

Light or moderate Westerly winds; fair weather, cold.

Same as No. 2.

Same as No. 3.

Same as No. 2.

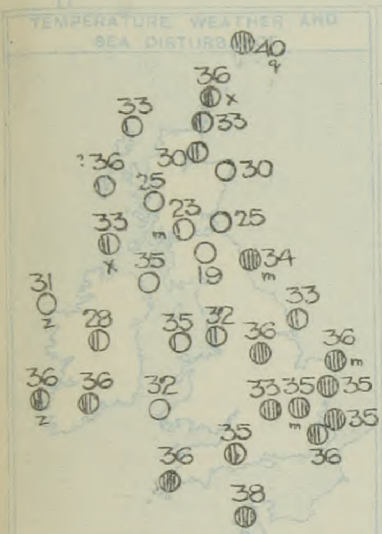
Moderate or fresh Easterly winds; moderate sea; cloudy, some showers.



# SYNOPTIC CHART FOR THE MORNING OF Tuesday, 13<sup>th</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

The anticyclone is likely to maintain its position over the British Isles.



## EXPLANATION.

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

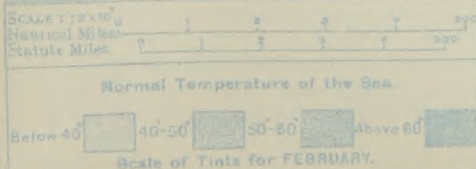
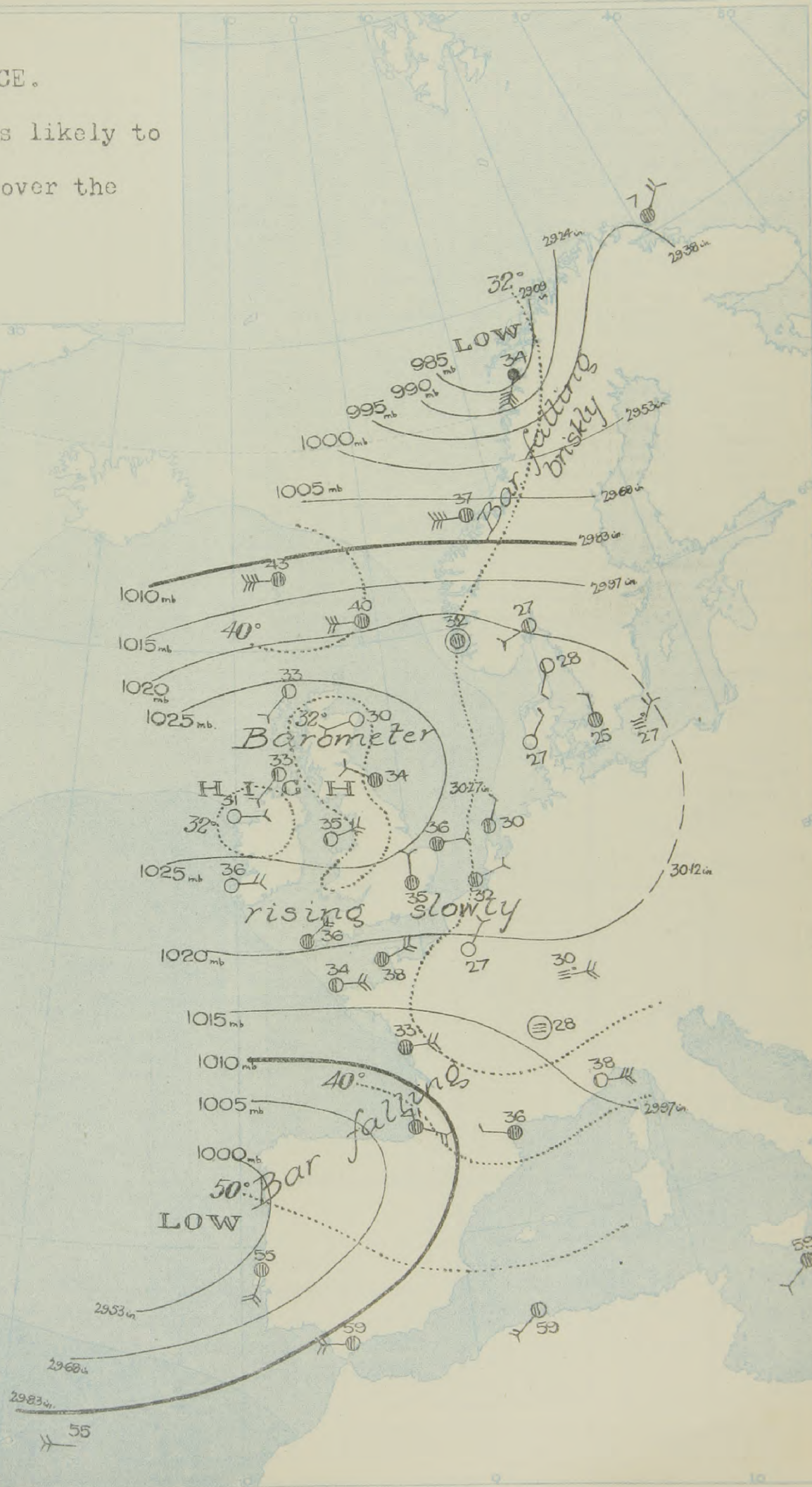
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers.

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

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

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

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING.			
	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.	Force 0-12.	Weather.	Rain- fall. Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	Temp. ° F.
			Dir.	Force 0-12.									Max.	Min.		
RUSSIA. 7 a.m. and 9 p.m. Local Time.	Archangel ...	99.04	2	N	2	0	99.41	0	12	+18	WNW	3	0	-6	1013.2	41
	Gorki ...	100.0	18	W	3	0	100.0	0	14	-13	NW	1	0	9	1021.7	36
	Veliki Luki ...	100.24	16	WNW	3	0	101.4	0	9	-16	WSW	2	0	9	1021.7	39
	Hangö ...	100.91	18	NNW	1	0	100.9	0	18	0	WNW	1	0	10	1017.2	30
	Riga ...	101.04	19	N	1	0	101.0	0	14	-7	—	0	0	12	1022.9	29
	Petrograd ...	100.24	16	NNW	2	0	100.7	+1	7	-9	W	3	0	5		
	Moscow ...	99.24	10	NNW	4	0	100.4	+1	1	-29	NNW	2	0	1		
	Kiev ...	100.61	19	NNW	4	0	101.3	+1	14	-14	WNW	4	0	12		
	Kharkov ...	99.62	28	WSW	3	0	100.7	+1	16	-9	WNW	3	0	16		
	Kishinev ...	100.9	32	NW	1	0	101.5	+1	27	+11	NW	2	0	?		
MEDITERRANEAN.	Elisabetgrad ...	100.21	28	WNW	4	0	101.5	+1	9	-21	NW	4	0	9		
	Nicolaiev ...	100.7	27	W	2	0	101.3	+1	14	-11	NW	2	0	12		
	Odessa ...	100.9	28	NNW	4	0	101.4	+1	19	0	NNE	2	0	18		
	Tarkhankout ...	100.8	36	NW	4	0										
	Soukhom ...															
	Venice ...	101.7	34	—	0	0	101.0	0	32	+7	ENE	1	0	27		
	Pesaro ...	101.3	32	SW	1	0	101.4	0	36	+11	SW	1	0	28		
	Rome ...	101.4	48	SW	1	0	101.6	0	50	+14	SE	1	0	45		
	Viesti ...	101.4	43	WNW	1	0	101.4	0	46	+3	S	1	0	41		
	Brindisi ...	101.3	46	NW	1	0	101.3	0	46	-2	S	1	0	45		
SWEDEN.	Cagliari ...	101.1	57	NW	4	0	101.3	0	52	+2	—	0	0	46		
	Palermo ...	101.3	62	ESE	1	0	101.4	0	54	+4	—	0	0	43		
	Tripoli ...															
	Algiers ...	101.3	54	—	0	0	101.4	+1	55	+7	—	0	0	52		
	Hernösand ...	100.5	23	S	2	0	100.4	0	21	0	S	2	0	0		
	Stockholm ...	101.4	28	W	2	0	100.6	0	19	-6	SW	2	0	0		
	Wisby ...	101.2	21	NNW	2	0	101.2	0	28	+7	WSW	4	0	0		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			
	Mm.	Mm.	F.	F.					Mm.	Mm.	F.	F.					
Scotland.	Oban ... ..	—	—	42	34	b	b.	7.2	England, E.	Lowestoft ... ..	—	—	39	36	o	o.c.	0.0
	Banff ... ..	1	—	42	35	bc	bc.c	5.4		Felixstowe ... ..	Trace	—	36	32	om	om	0.0
	Montrose ... ..									Walton-on-Naze ... ..							
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	—	—	35	33	o	o.	0.0
	St. Andrews ... ..	3	—	40	34	b	b.	6.0									
Eng. N.E.	Harrogate ... ..	—	Trace	38	26	op.o.bc	bc.	5.0	England, S.E.	Margate ... ..	1	—	37	33	o	o.c.	0.0
	Skegness ... ..	Trace	—	39	29	f.o.c.	c.b.c.	1.3		Ramsgate ... ..							
								Hastings ... ..		1	—	37	33	os.o	o.	0.0	
								Eastbourne ... ..		1	—	38	33	oe.	o.c.	0.0	
								Seaford ... ..		*	*	37	33	o	o.	0.0	
								Brighton ... ..		—	—	37	34	o	o.	0.0	
								Worthing ... ..		—	—	37	34	o	o.	0.0	
								Littlehampton ... ..		—	—	37	33	o	o.	0.0	
								Bognor ... ..		*	*	38	33	o	o.	0.0	
								Bournemouth ... ..		—	—	39	33	o	o.	0.0	
Midlands.	Leamington Spa ... ..								England, S.W.	Weymouth ... ..	*	*	37	34	m.o.	o.bcz.	0.0
	Malvern ... ..									Torquay ... ..	—	—	37	33	o	o.	0.0
	Ross-on-Wye ... ..	—	—	34	27	omx	om.	0.0		Paignton ... ..	*	*					
Wales.	Rhyl ... ..	—	—	38	29	c.o.x	x.c.o.	0.6		Penzance ... ..	—	—	38	33	off	off.	0.0
	Colwyn Bay ... ..	*	*	37	32	o.b.c	c.	0.8		Newquay ... ..	—	—	37	29	o	o.	0.0
	Llandudno ... ..	*	*	39	31	c	c.	0.8	Bude ... ..	—	—	37	31	o	o.	0.0	
	Aberystwyth ... ..	*	*	36	29	f.o.	c.o.	0.0	Ilfracombe ... ..	—	—	38	28	o	o.	0.0	
	Tenby ... ..								Weston-s-Mare ... ..	—	—	36	32	o.c	cm.o.	0.0	

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

13th February 1917.	Sunrise.		Noon.		Sunset.	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.16	12.7	4.58			
Greenwich ...	7.14	12.7	5.0			
Wick ...	7.20	12.14	5.8			
	7.18	12.14	5.10			
Wick ...	7.52	12.26	5.0			
	7.50	12.26	5.2			
Valencia ...	8.2	12.55	5.48			
	8.0	12.55	5.50			

## NOTES ON YESTERDAY'S WEATHER.

Temperature fell to about 20° at Glasgow and Eskdalemuir, but generally the frost was slight. Sunshine was plentiful in the North and North-West; the day was dull elsewhere. There was little precipitation.

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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1917.

# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 45

 Wednesday  
14th February

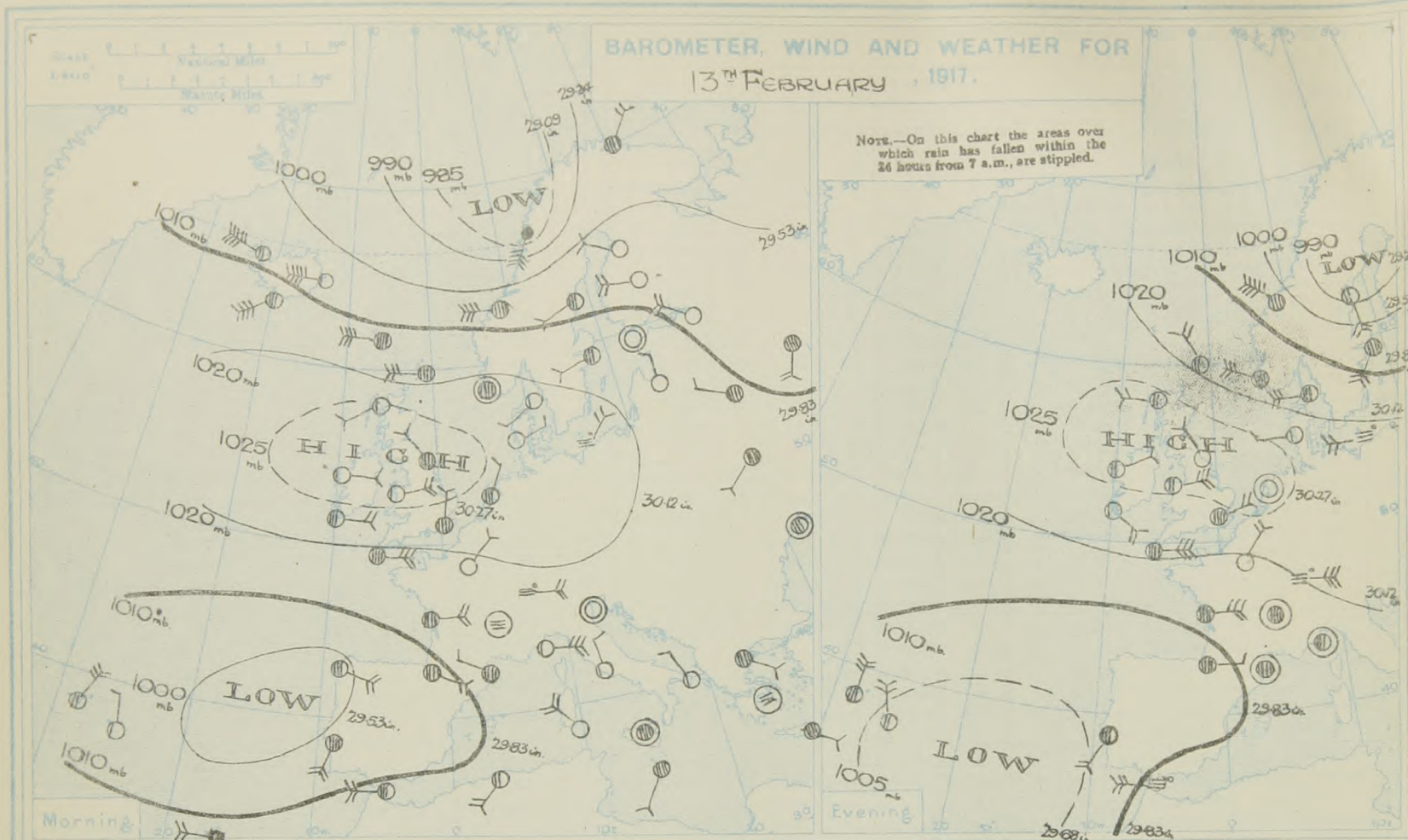
STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.					Sun- shine for Yester- day.			
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. °F.	Change in 24 hours.	WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.							
			Dirac.	Force 0-12.											Max.	Min.	Morning.	Afternoon.	Night.					
Lerwick ...	1019.9	40	NW	4	bc	1026.0	+1	37	-3	WNW	1	-	c	1	1	45	37	omg	c.bc	bc	*			
Deerness (Orkney) ...	1022.7	43	W	4	c	1027.4	*	38	+2	WNW	3	-	bc	2	-	44	37	c.o	c.c	c.c.bc.c	0.0			
Stornoway ...	1026.4	41	W	3	bc	1028.7	+1	37	+4	-	0	-	cz	0	1	44	33	c.o	c.bep	cz	0.7			
Castlebay (Barra Is.) ...	1028.4	42	WNW	2	o	1029.2	0	39	+3	NE	1	E	c	1	1	45	36	bx.o	c.b.o	op.o.c	5.6			
Glasgow ...	1027.7	35	NW	1	b	1029.7	+1	28	+5	RSE	7	-	o	*	Trace	39	21	f.c.bcm	bcm.bz	bm.omx	4.0			
Eskdalemuir ...	1028.8	22	-	0	bc	1029.3	0	30	+11	NE	1	-	o	*	-	30	15	b.bc	bc.b.bc	bc.bx.o	8.0			
Malin Head ...	1028.2	37	N	1	bm	1028.5	0	36	+3	NW	1	SE	c	1	-	42	31	bm	bm	cm	8.2			
Blacksod Point ...	1027.4	34	ENE	2	bc	1027.2	-2	30	-1	ENE	2	-	bm	2	-	38	29	bz	bz	bz.bm	*			
Valencia ...	1023.7	37	SE	3	b	1023.1	0	34	-2	E	2	-	b	3	-	42	34	c.bz	bz	b.bc.b	7.0			
Roche's Point ...	1024.2	39	E	4	o	1024.1	*	34	-2	NE	1	E	c	3	-	40	34	o	omg	c.c	*			
Birr Castle ...	1027.0	32	NE	1	bc	1026.2	*	27	-1	NNE	1	-	o	*	-	40	27	bc	bex	o	6.6			
Donaghadee ...	1027.9	37	ENE	2	bz	1027.7	0	34	-1	ENE	2	-	bm	2	-	44	34	bz	bz	bm	*			
Liverpool (Bidston) ...	1027.5	35	NE	2	o	1027.8	0	33	+1	ENE	1	-	o	2	-	39	32	bc	om	o	1.2			
Holyhead ...	1026.5	38	ENE	5	bcm	1026.7	0	33	-2	ENE	5	-	bxm	4	-	40	32	b.bc	b.bcm	bxm	5.9			
Pembroke (St. Ann's) ...	1024.3	37	ENE	3	b	1024.5	-1	30	-2	ENE	3	-	b	2	-	39	28	bc.o	c.c.bc	b	4.5			
Scilly (St. Mary's) ...	1020.2	41	E	6	om	1019.6	-1	39	0	E	6	E	om	6	-	41	37	cm	om	om	2.6			
Falmouth ...	1020.2	39	ENE	6	bz	1021.0	0	36	0	ENE	5	-	o	*	-	40	35	o	c.c	o.bc.og	0.0			
Jersey (St. Aubin) ...	1018.6	36	ENE	4	bm	1019.6	*	33	-5	E	5	NE	cm	4	-	39	32	c.o	c.bm	bcm	3.7			
Portland Bill ...	1021.8	39	ENE	5	b	1022.4	0	34	-1	ENE	6	E	o	5	-	40	32	c.o	c.c.bc	b.bc.c	*			
Dungeness ...	1022.8	35	ENE	6	bc	1024.1	0	33	-3	ENE	5	NE	bc	5	-	37	33	bc	bc	bc.b.c	*			
Dover ...	1024.8	34	NNE	4	c	1026.0	0	32	-3	NE	4	NE	bc	4	-	38	30	c.c.b	b.bc.c	c.bc	7.2			
Wick ...	1024.6	39	WNW	2	o	1028.0	+1	35	+2	WNW	1	-	b	2	-	42	30	bc.omg	omg	bc.mfe	*			
Nairn ...	1026.3	37	W	1	cg	1029.1	*	34	+4	-	0	-	cg	1	-	42	29	bc	bc.c	c.bcx	5.5			
Aberdeen ...	1026.3	39	WNW	3	o	1028.7	+1	38	+8	WNW	3	-	bc	2	-	41	29	b	b.bc.o	o.b.bc	7.1			
Leith ...	1026.9	33	SW	1	b	1028.7	0	32	+7	W	1	-	om	2	-	38	26	bz.b	b.bz.b	bz.bm	*			
Tynemouth ...	1027.6	33	NW	2	bm	1028.2	0	31	-3	WNW	2	N	cm	3	-	36	27	cm	bcm	cm	*			
Spurn Head ...	1027.3	39	E	4	c	1027.7	0	33	0	E	3	-	c	4	Trace	42	32	bc	bc	cp	8.2			
Yarmouth ...	1026.0	35	E	3	b	1026.9	0	36	0	ENE	3	-	o	4	-	41	34	bc	bc	bc	6.0			
Clacton-on-Sea ...	1025.1	35	NNE	3	c	1026.3	+1	35	0	ENE	3	E	c	3	-	40	34	c.cg	c.bc.c	c.bc.c	1.8			
Nottingham ...	1026.8	33	E	1	b	1027.6	*	32	-4	E	1	-	cx	*	-	40	26	c.c.b	b	b	5.6			
Benson (Oxon.) ...	1024.3	35	NE	2	o	1025.8	+1	31	-2	ENE	4	-	o	*	Trace	38	30	os.bo	o	o.bc	*			
Sth Farnborough ...	1023.9	36	ENE	2	o	1025.1	0	32	-1	ENE	4	-	o	*	-	41	30	og.om	c.bc.cm	om.b.o	2.2			
London (Kew Obs.) ...	1025.0	38	ENE	4	om	1026.0	+1	34	-1	ENE	5	-	c	*	-	40	33	om	om.cm.om	om.bm	0.3			
SPITSBERGEN ...																								
Vardö ...																								
Bodö ...																								
Christiansund ...	1000.7	36	WNW	10	o	1014.3	+7	28	-9	NRW	7	-	5	7	6	39	30							
Skudesnaes ...	1017.3	41	WNW	4	o	1020.7	+1	28	-4	N	7	-	c	4	2	41	28							
Færder (Xania Fjord) ...	1006.9	34	SW	6	bc	1010.9	+3	36	+9	WNW	2	-	b	2	-	36	27							
The Scau (Skagen) ...	1015.7	36	W	5	c	1020.6	+2	34	+6	WNW	2	-	b	3	-	39	28							
Blaavands Huk ...	1024.3	32	W	1	b	1021.1	-1	36	+9	WNW	3	-	b	3	-	36	21							
Copenhagen ...	1021.6	32	W	3	bc	1013.5	-2	37	+12	WNW	4	-	o	*	-	37	23							
Bornholm ...	1020.6	30	W	4	m	1011.3	-3	34	+7	W	8	-	m	3	-	34	25							
The Helder ...	1026.4	28	-	0	b	1026.6	0	32	+2	N	1	NE	b	0	-	36	27							
C. Gris Nez ...	1023.0	32	ENE	4	m	1024.0	+1	28	-4	E	4	*	b	3	-	36	27							
La Hève ...	1021.9	31	NE	3	o	1021.6	*	25	-7	ENE	3	*	m	1	-	36	23							
Brest (St. Mathieu) ...	1015.1	37	ENE	5	bc	1016.6	0	32	-2	ENE	4	*	c	3	-	43	30							
Rochefort (Ile d'Aix) ...	1012.3	39	E	5	o	1012.8	0	35	+2	E	5	*	o	*	-	43	34							
Biarritz ...	1008.4	54	E	1	o	1008.8	0	52	+12	SSE	3	*	b	0	1	57	46							
Paris ...	1020.4	20	NE	3	b	1021.5	+2	23	-4	NE	2	-	b	*	-	37	21							
Belfort ...	1020.0	32	E	6	m	1022.1	*	27	-3	E	5	*	m	*	-	33	26							
Lyons ...	1018.4	31	-	0	o	1019.4	*	29	+1	W	0	*	f	*	-	35	29							
Nice ...	1016.7	45	-	0	c	1018.4	+1	41	+3	E	2	*	c	3	-	54	41							
Perpignan ...	1012.7	45	-	0	o	1013.9	+2	45	+9	WNW	1	-	o	*	Trace	48	32							
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
Corunna ...																								
Madrid ...																								
Lisbon ...	1006.3	57	SSW	3	c	988.4	-4	54	-1	SE	4	-	o	*	35	59	52							
Azores (Horta) ...	1008.3	*	N	5	c	1012.2	+1	49	-3	NNE	5	*	b	2	1	55	49							
Madeira ...																								
Gibraltar ...	1012.8	58	W	5	m	1009.8	*	58	-1	SE	3	*	o	3	13	65	53							
Malta ...	*	*	*	*	*	1014.0	+1	57	-2	E	3	-	o	3	-	61	55							
Limassol ...	*	*	*	*	*	1015.4	0	54	-1	W	1	-	bc	3	-	66	46							
Alexandria ...	1019.7	59	NW	1	c	1018.7	0	55	-2	SW	3	NW	bc	2	-	70	54							
Cairo (Helwan) ...	1019.1	57	-	0	b	1019.4	+2	55	+5	SE	1	NW	c	*	-	66	52							
LONDON OBSERVATIONS.																					SOUTH KENSINGTON.			
HUMIDITY.																					24 HOURS ENDED 9 h. TO-DAY.			
TEMPERATURE.																								

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





#### FORECAST DISTRICTS.



#### STORM WARNINGS.

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

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

No  
Warnings  
issued

Western Channel and Bay

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Light Westerly or Variable breezes; fair generally; moderate temperature. |
| 1  | b |   |   |
| 2  | a | } | Light variable or Easterly airs; fair generally; rather cold.             |
| 3  | b |   |   |
| 4  | a | } | Moderate or light Easterly breezes; fair generally; rather cold.          |
| 5  | b |   |   |
| 6  | c |   |   |
| 7  | a | } | Moderate to fresh Easterly wind; fair generally; rather cold.             |
| 8  | b |   |   |
| 9  | a | } | Light variable breezes; fair generally; rather cold.                      |
| 10 | b |   |   |
|    | a | } | Same as No. 2.  |
|    | b |   |   |
|    | a | } | Same as Nos. 3 and 4  |
|    | b |   |   |
|    | a | } | Same as No. 5.  |
|    | b |   |   |
|    | a | } | Same as No. 6   |
|    | b |   |   |
|    | a | } | Light Easterly breezes; fair generally; rather cold.                      |
|    | b |   |   |
|    | a | } | Fresh Easterly wind; rather rough sea; cloudy.                            |
|    | b |   |   |

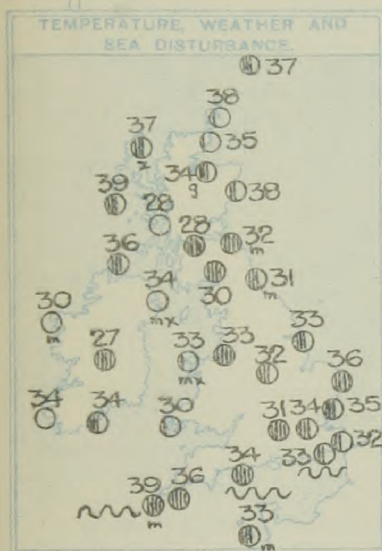
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF Wednesday, 14<sup>th</sup> FEBRUARY, 1917.

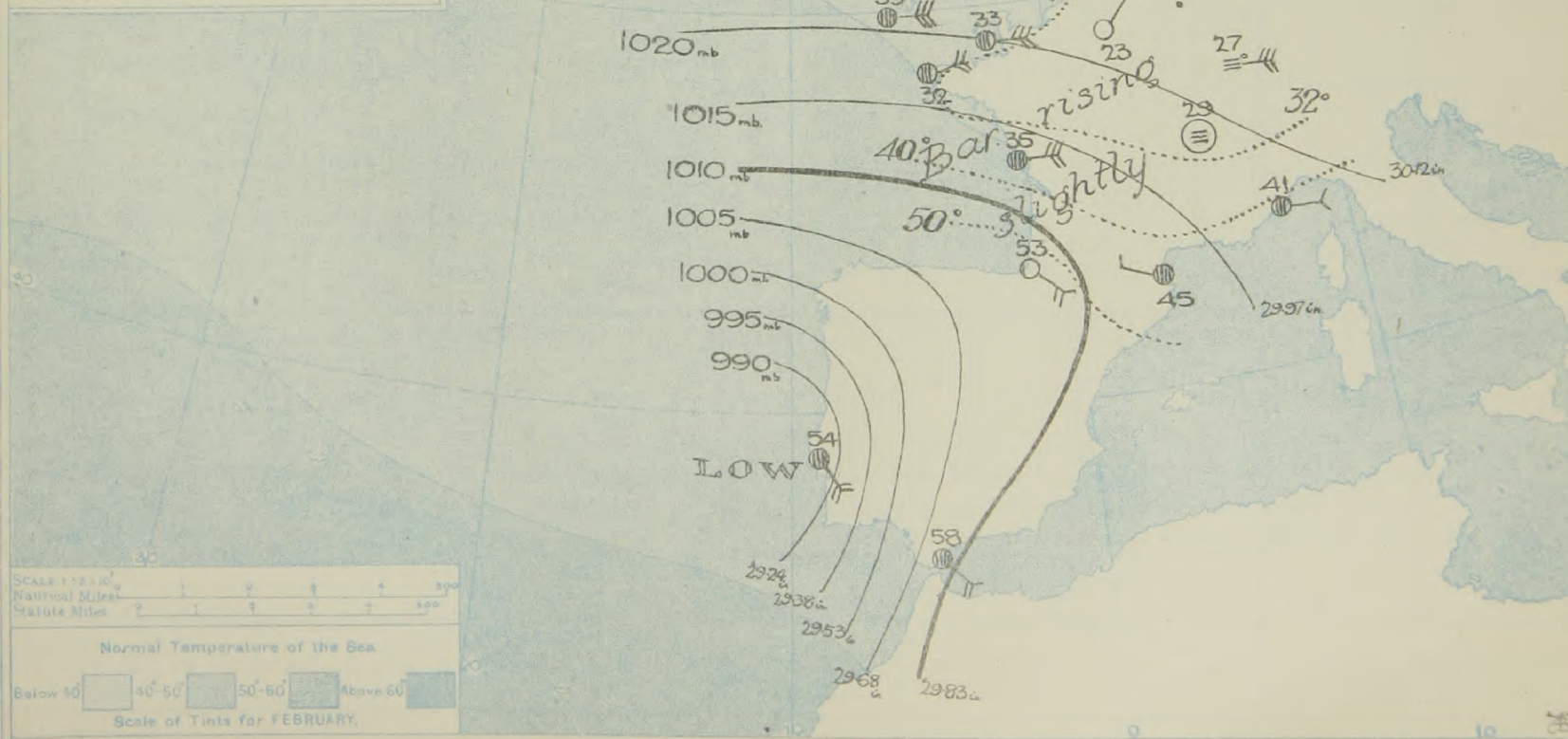
## GENERAL INFERENCE

The anticyclone will maintain its position over the British Isles.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm  
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.  
 ○ sky ¾ clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough wavy. High wavy.





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING.			
	Barom.	Temp.	Wind.	Weather.	Barom.	Temp.	Wind.	Weather.	Rain-fall.	Temp.	Temp.	Temp.	Barom.	Temp.	Wind.	Weather.
	Milli-bars at M.S.L.	°F.	Dir.	Force 0-12.	Milli-bars at M.S.L.	Change in 3 hours.	Dir.	Force 0-12.	Milli-metres.	Max.	Min.	Max.	Milli-bars at M.S.L.	°F.	Dir.	Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	990.6	1	NE	2	0			985.3	0	10	-2	NNW	9	S	
	Gorki ...	1013.9	9		0	6			1010.6	0	14	0	NW	1	0	
	Veliki Luki ...	1010.3	21	SSW	2	0			1009.8	*	21	+12	NW	4	S	
	Hangö ...	1006.7	23	WNW	2	0			1014.3	+4	7	-11	NNW	1	6	
	Riga ...	1009.6	28	WSW	3	0			1014.9	+5	19	+5	N	1	6	
	Petrograd ...	999.4	21	SW	3	0			1004.8	+5	9	+2	NW	4	6	
	Moscow ...	1011.7	7	WSW	3	0			1004.8	-5	12	+11	SSW	3	0	
	Kiev ...	1019.1	10	W	2	6			1017.3	-1	12	-2	SW	2	0	
	Kharkov ...	1019.4	23		0	6			1021.1	0	16	0		0	0	
	Kishinev ...															
	Elisabetgrad ...															
	Nicolaiev ...	1022.4	16		0	6			1019.6	0	1	-8		0	f	
MEDITERRANEAN.	Odessa ...	1020.6	25	NNE	2	0			1018.9	+3	10	-4		0	f	
	Tarkhankout ...								1016.8	+3	28	+9	ESE	3	0	
	Soukhoum ...								1018.3	*	27	0	ESE	4	bc	
									1022.4	0	34	-8	SE	1	bc	
	Venice ...	1010.9	36	NE	1	6			1016.3	*	27	-5	N	1	6	
	Pesaro ...	1011.8	34	W	2	6			1017.0	*	?		SW	1	m	
	Rome ...	1012.2	46	W	1	6			1013.6	*	41	-9	N	1	6	
	Viesti ...	1010.3	52	SE	1	0			1013.9	*	46	0	NW	2	c	
SWEDEN.	Brindisi ...	1012.5	48	NW	1	c			1016.5	*	57	+11	NW	1	6	
	Cagliari ...	1012.6	57	NW	4	6			1013.4	*	54	+2	NW	4	6	
	Palermo ...	1013.4	57	S	3	6			1013.5	*	48	-6		0	0	
	Tripoli ...								1016.2	*	61		S	1	bc	
	Algiers ...	1012.4	55		0	0			1010.7	+1	59	+4	SW	3	bc	
	Hernösand ...	1009.5	25	S	4	6			1008.2	*	23	+2	SW	2	c	
	Stockholm ...	1009.5	23	WSW	2	6			1017.6	*	14	-5	WSW	2	c	
	Wisby ...	1010.9	32	WSW	4	f			1019.8	*	27	-1	NE	2	6	
ICELAND.																
Isafjord ...																
Reykjavik ...																
Vestmanna ...																
Seydisfjord ...																
Thorshavn ...																

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR FEBRUARY 1904.																	
STATIONS.		Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine.	STATIONS.		Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine.
		Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.				Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.	
		Mm.	Mm.	° F.	° F.			Hr.			Mm.	Mm.	° F.	° F.			Hr.
Scotland.	Oban ... ..	—	—	40	24	b	bc-o.	1.2	England, E.	Lowestoft ... ..	—	—	39	32	o.c.bc.	bc	5.5
	Banff ... ..	—	—	43	27	b.bc	bc.c	5.4		Felixstowe ... ..	Trace	—	39	29	o.bc	bc	3.2
	Montrose ... ..									Walton-on-Naze ... ..							
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	Trace	—	42	31	o.c	c.bc	3.0
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	—	—	35	27	c.o	o	0.0	England, S.E.	Margate ... ..	—	—	39	33	c.bc.b.	b	5.7
	Skegness ... ..	1	—	35	33	b	b	7.7		Ramsgate ... ..	—	—	38	33	o.bc.b	b	6.3
Eng. N.W.	Morecambe ... ..	—	—	37	30	bc.b	b	6.3		Hastings ... ..	—	—	38	33	o.bc.b	b	5.7
	Southport ... ..	—	—	39	28	bc.b	b	5.8		Eastbourne ... ..	—	—	41	33	o	b	5.7
Midlands.	Leamington Spa ... ..									Seaford ... ..	—	—	43	33	o.c	c.bc	5.2
	Malvern ... ..									Brighton ... ..	—	—	44	33	o.bc	b	4.8
	Ross-on-Wye ... ..	—	—	37	28	om.de	om.	0.0		Worthing ... ..	—	—	42	33	o.bc	bc	4.0
Wales.	Rhyl ... ..	—	—	40	27	o.c	bc.c.o	6.1		Littlehampton ... ..	—	—	42	33	bc	bc	4.0
	Colwyn Bay ... ..	*	*	37	29	c	c.o	5.6		Bognor ... ..	*	*	42	33	bc	bc	4.0
	Llandudno ... ..	*	*	38	26	o	bc.o	4.9		Bournemouth ... ..	—	—	43	31	o.c	b	3.3
	Aberystwyth ... ..	*	*	39	29	o.c	c.bc	5.0									
	Tenby ... ..																
England, S.W.									England, S.W.	Weymouth ... ..	—	—	42	33	o.c	bc	3.1
										Torquay ... ..	—	—	41	34	o	o.c.bc.b	2.3
										Paignton ... ..	*	*	41	34	b	b	0.0
										Penzance ... ..	—	—	41	35	c	c	0.0
										Newquay ... ..	—	—	40	31	b	b	7.1
Wales.									Bude ... ..	—	—	41	32	b	b	5.4	
									Ilfracombe ... ..	—	—	40	32	bc	bc	4.8	
									Weston-s-Mare ... ..	—	—	40	32	bc.b	b.bc	3.2	

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

Stations.	14th February, 1917.		
	Sunrise.	Noon.	Sunset.
Yarmouth ...	7.14	12.7	5.0
Greenwich ...	7.12	12.7	5.2
Wick ...	7.50	12.26	5.2
Valencia ...	8.0	12.55	5.50

## NOTES ON YESTERDAY'S WEATHER.

Fine weather prevailed generally with over 7 hours sunshine at Skegness. Temperature reached 40° over the greater part of the country during the day, but several degrees of frost were experienced at night over the central part of England and Ireland.

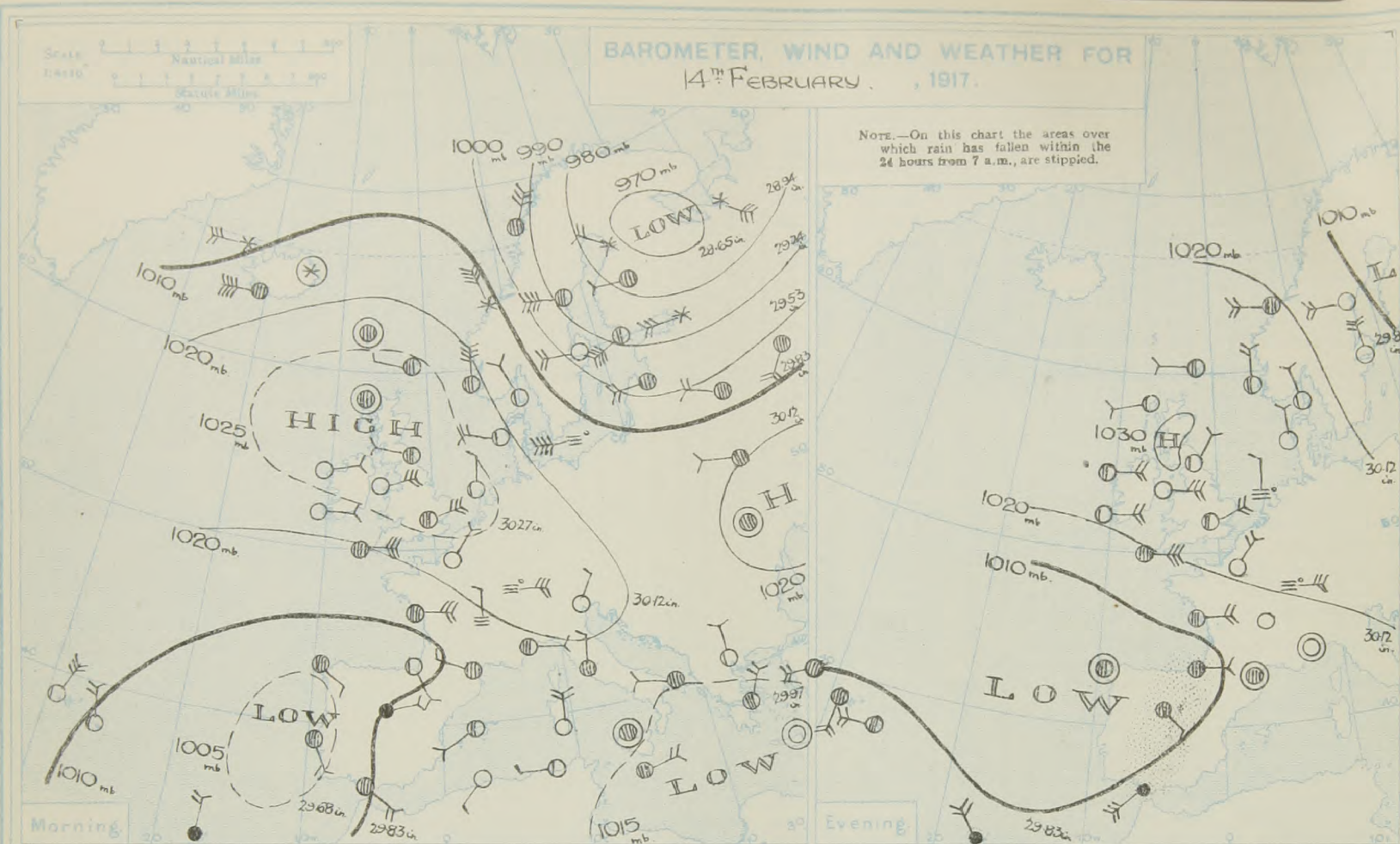
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain;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

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



STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.							Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.						
			Dir.	Force 0-12				Dry Bulb.	Change in 24 hours.						Force 0-12	Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	1026.5	42	W	2	bc m	1024.6	0	43	+6	SW	4	-	om	3	0.3	45	37	bc m	bc m	o. om	*	
	Deerness (Orkney) ...	1028.8	40	SW	2	b	1026.7	*	36	-2	WSW	2	-	bx	1	-	45	36	c. bc	c. b	bx	6.2	
	Stornoway ...	1029.0	38	WSW	2	bz	1026.6	-1	30	-7	-	0	-	bz	0	-	48	29	bz	bz	bz	6.0	
	Castlebay (Barra Isd.) ...	1029.4	42	E	4	bc	1026.2	0	41	+2	SE	4	SE	o	4	-	45	39	c. b	bc	bc. o	7.3	
	Glasgow ...	1030.1	36	E	1	cz	1028.1	-2	29	+1	E	2	-	bm x	*	Trace	40	27	f. om	om. cz	bz. om	0.0	
	Esksdalemuir ...	1030.3	35	NE	2	o	1028.2	-2	35	+5	ESE	3	-	o	*	-	37	30	ov. o	o. c. o	o. bc. o	0.1	
	Malin Head ...	1028.3	37	ESE	3	bc m	1021.6	-5	37	+1	SE	4	SE	cm	4	-	44	35	bm	bc m	cm	6.8	
	Blacksod Point ...	1024.5	35	E	4	bc m	1020.8	-2	33	+3	SE	3	E	bc m	3	-	38	30	bc	bc m	bm. bc m	*	
	Valencia ...	1021.2	37	E	4	b	1017.7	-2	38	+4	E	4	SE	cz	3	-	42	32	bz	bz	b. bc. c	8.1	
	Roche's Point ...	1023.6	38	E	4	c	1020.7	*	39	+5	E	5	-	o	5	-	40	34	c. o	o. c	c. o	*	
	Birr Castle ...	1025.0	34	E	1	b	1022.6	*	34	+7	ESE	1	E	bc	*	-	40	27	o. c. b	b	bcx	7.7	
	Donaghadee ...	1027.9	39	SE	3	cm	1024.8	-3	30	-4	SE	4	-	og m	4	-	42	34	bc m	bc m	c. og m	*	
	Liverpool (Bidston) ...	1028.8	37	ENE	2	o	1026.0	-1	33	0	E	2	-	b	2	-	38	32	bc m	o	o. c. b	1.2	
	Holyhead ...	1026.0	37	E	5	bm	1023.0	-2	36	+3	E	5	-	bx	4	-	40	32	b. bc. m	bm	bx	7.4	
	Pembroke (St. Ann's) ...	1024.4	35	ENE	4	b	1020.0	0	36	+6	E	5	-	bz	4	-	39	29	b	b	b. bz	8.7	
	Scilly (St. Mary's) ...	1019.0	39	E	6	o	1016.6	-1	41	+2	ESE	7	E	cm	6	-	43	34	om	om	cm	0.5	
	Falmouth ...	1021.4	37	E	5	bz	1017.7	-1	39	+3	E	6	-	oz	*	-	39	34	oz	oz. o. oz	oz. oz	0.0	
	Jersey (St. Aubin) ...	1020.1	37	ENE	5	b	1018.0	*	32	-1	ENE	4	-	bm	4	-	40	31	b	b	bm x	7.8	
	Portland Bill ...	?	34	ENE	6	b	1019.9	-2	33	-1	ENE	6	E	bc	5	-	36	33	c. bc	bc. b	bc. b	*	
	Dungeness ...	1024.1	35	ENE	6	b	1023.3	-1	33	0	ENE	4	NE	b	3	-	37	33	bc	bc	b. bx	*	
Dover ...	1026.6	34	E	4	b	1024.9	0	33	+1	ENE	4	E	b	4	-	37	31	b	b	bx	8.8		
Wick ...	1028.9	35	WSW	2	b	1026.5	-2	27	-8	W	1	-	bc	2	-	41	25	bm x	bz m	bm x	*		
Nairn ...	1029.1	32	-	0	bc m	1027.2	*	25	-9	-	0	-	bc	0	-	43	24	c. bc	bc m	bcx	5.3		
Aberdeen ...	1030.1	36	-	0	m	1028.5	0	27	-11	-	0	-	bz x	2	-	45	27	bc. b	b. bc. m	bm x	5.6		
Leith ...	1029.7	37	SSE	1	o	1028.5	+1	36	+4	SE	1	SE	c	2	-	39	32	om. o	oz. c. o	om. bu. c	*		
Tynemouth ...	1029.6	40	NE	2	bm	1028.4	-1	38	+7	ESE	1	E	bc m	2	-	41	31	cm	bm	bc m	*		
Spurn Head ...	1028.7	35	E	3	om	1027.8	-1	34	+1	SE	3	-	bc	4	-	39	32	om	om	bc m	0.0		
Yarmouth ...	1027.4	35	NE	3	b	1026.5	-1	35	-1	SE	3	-	c	3	-	40	32	bc	b	bc. om d	1.3		
Clacton-on-Sea ...	1027.1	36	NE	3	bc	1026.0	-1	35	0	ENE	2	E	o	2	-	39	34	c. bc	bc	bc. c. o	3.2		
Nottingham ...	1028.3	38	E	2	o	1026.9	*	33	+1	ENE	2	E	ome	*	0.1	39	31	c. o	o. c	ome	0.9		
Benson (Oxon.) ...	1026.4	35	E	4	bc	1023.9	-1	34	+3	ENE	4	-	o	*	-	38	30	o. bc. o	o	b. o	*		
Sth Farnborough ...	1025.6	34	NE	3	b	1023.6	-2	33	+1	ENE	4	-	o	*	-	39	31	o. b. om	c. o. bm	b. o	5.0		
London (Kew Obsy.) ...	1026.5	36	ENE	4	bc m	1024.5	-1	34	0	E	5	-	om	*	-	37	34	bc m. o	o. cm. bc m	bc m. om	1.0		
NORTHERN EUROPE.	Spitsbergen ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Vardö ...	996.6	10	NE	4	S	995.1	-1	12	+2	N	2	-	S	5	*	12	7	...	...	...	...	
	Bodö ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Christiansund ...	1026.2	34	W	4	o	1011.2	0	34	+6	WNW	5	-	o	6	52	34	28	...	...	...	...	
	Skudesnaes ...	1027.9	32	N	4	b	1023.8	-2	41	+13	NW	4	-	o	2	-	41	30	...	...	...	...	
	Færder (Klaniafjord) ...	1023.5	32	W	2	bc	1016.8	-3	34	-2	WSW	4	-	o	2	-	36	30	...	...	...	...	
	The Scaw (Skagen) ...	1022.7	36	NNW	3	b	1020.6	-4	34	0	WSW	3	W	bc	3	-	39	27	...	...	...	...	
	Blaavands Huk ...	1024.4	32	N	2	b	1027.9	0	30	-6	WNW	1	-	b	1	-	37	28	...	...	...	...	
	Copenhagen ...	1021.7	36	N	3	b	1025.3	-2	30	-7	W	3	-	bc	*	-	39	28	...	...	...	...	
	Bornholm ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
FRANCE, &c.	The Helder ...	1027.3	34	N	1	m	1027.9	-1	27	-5	NE	1	-	b	0	-	36	27	...	...	...	...	
	C. Gris Nez ...	1024.7	33	E	5	b	1023.8	-3	28	0	E	5	*	c	3	-	34	28	...	...	...	...	
	La Hève ...	1013.6	32	ENE	5	m	1019.9	*	27	+2	E	4	*	m	3	-	32	25	...	...	...	...	
	Brest (St. Mathieu) ...	1015.3	41	ENE	5	bc	1013.0	0	36	+4	E	4	*	o	3	-	43	36	...	...	...	...	
	Rochefort (Ile d'Aix) ...	1012.0	43	E	4	c	1011.4	0	38	+3	E	4	*	c	*	-	48	36	...	...	...	...	
	Biarritz ...	1007.7	55	E	2	o	1008.4	+1	46	-7	ESE	2	*	o	0	1	63	45	...	...	...	...	
	Paris ...	1021.5	34	NE	3	b	1021.5	0	19	-4	NE	2	-	b	*	-	41	19	...	...	...	...	
	Belfort ...	1023.7	28	E	5	m	1019.4	*	19	-8	E	6	*	m	*	-	33	19	...	...	...	...	
	Lyons ...	1019.4	35	NNE	1	b	1021.9	*	23	-6	-	0	*	f	*	-	41	21	...	...	...	...	
	Nice ...	1017.6	43	-	0	b	1020.7	+2	42	+1	-	0	*	b	3	-	54	37	...	...	...	...	
Perpignan ...	1014.0	48	-	0	o	1014.6	+2	50	+5	SE	2	SE	r	*	Trace	52	45	...	...	...	...		
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	...	...	...	...	
SOUTHERN STATIONS.	Corunna ...	1022.1	57	NW	1	c	1005.1	+3	48	-	-	0	-	c	1	1	57	48	...	...	...	...	
	Madrid ...	1003.3	48	SSE	1	o	1010.4	+1	43	0	SE	2	-	o	*	8	50	41	...	...	...	...	
	Lisbon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Azores (Horta) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Madeira ...	1011.8	59	NW	4	r	1017.0	+2	54	-1	NW	3	NW	o	*	-	59	50	...	...	...	...	
	Gibraltar ...	1011.8	58	SW	5	r	1010.8	*	54	-4	SW	5	*	o	3	9	61	52	...	...	...	...	
	Malta ...	*	*	*	*	*	...	...	...	...	...	...	...										







FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

STORM WARNINGS.

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

### Signals isolated

South Cone. 

North  
Cons. 

Signals hoisted

South  
Cone.

North  
Cone. 

No  
warnings  
issued.

- 0 {  
b } Variable to light Westerly airs; fair generally;  
1 } rather cold.
- 2 {  
b } Light Easterly airs; fair generally; moderate  
temperature.
- 3 {  
b } Light Easterly breezes; fair generally; rather  
4 {  
b } cold.
- 5 { Moderate to fresh Easterly winds; fair generally;  
rather cold.
- 6 {  
b } Light to moderate South-Easterly winds; fair  
generally; rather cold
- 7 {  
b } Moderate to fresh Easterly winds; fair generally;  
rather cold.
- 8 {  
b } Fresh to strong Easterly winds; fair generally;  
rather cold
- 9 {  
b } Same as No. 6.
- 10 {  
b } Same as No. 7.
- 11 Fresh to strong Easterly winds; dull; sea moderate

Millibares

1050-1

1

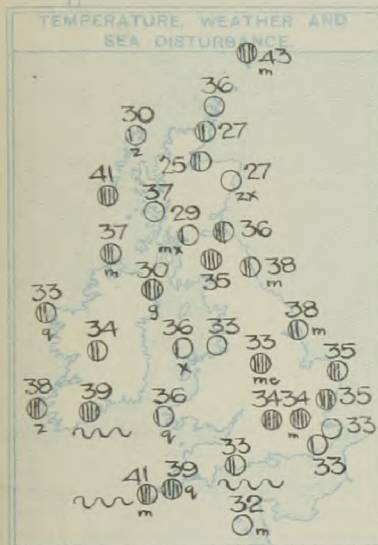
1



# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 15<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

The anticyclone will continue to dominate the weather over the British Isles.



## EXPLANATION.

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

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

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

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

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

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

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

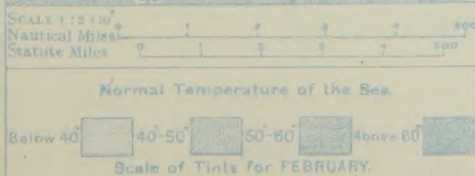
\* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.

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

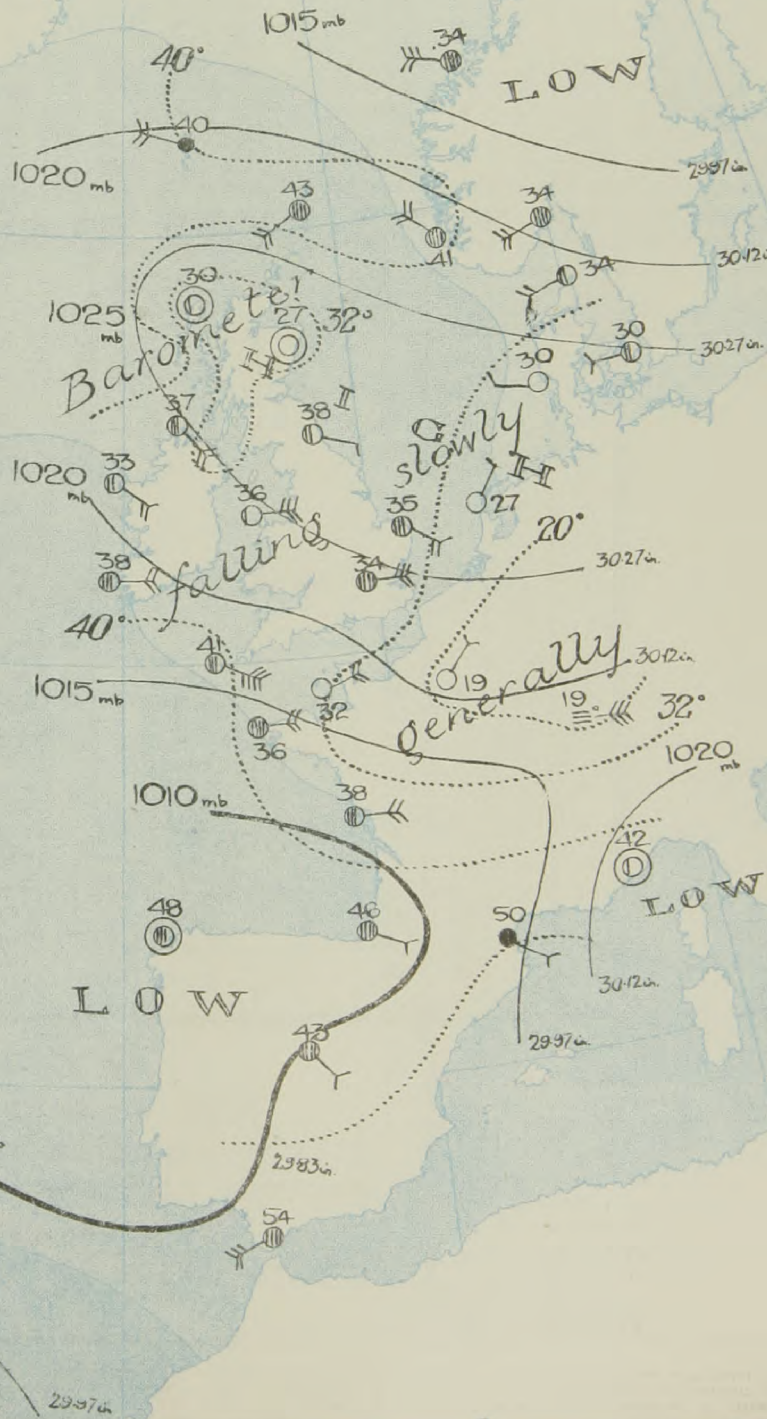
inches.  
—31

30

29



HIGH



10 B



## REPORTS FOR YESTERDAY.

STATIONS	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING			
	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.	Force 0-12.	Weather.	Rain- fall. Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	TEMP. °F.
			Dir.	Force 0-12.									Max.	Min.		
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	974.0	7	SW	4	S	973.0	-6	1	-4	3W	6	S	-2	1007.7	32
	Gorki ...	1017.1	23	-	0	0	1006.9	+9	12	-2	NW	3	0	-	1012.2	39
	Veliki Luki ...	1013.5	5	SW	4	b	994.9	*	23	-2	SW	5	0	+9	1015.3	43
	Hangö ...	997.8	32	WSW	8	0	990.0	-3	30	+23	WSW	8	bc	5	1013.5	25
	Riga ...	1011.7	23	SW	3	0	997.7	-3	32	+13	W	4	0	19	1023.6	37
	Petrograd ...	997.9	19	SW	4	0	918.3	-6	28	+19	W	5	S	5		
	Moscow ...	1011.3	5	W	3	b	1003.7	-5	12	0	SW	4	S	3		
	Kiev ...	1021.0	12	NW	2	b	1020.0	-2	10	-2	NW	2	0	5		
	Kharkov ...	1019.3	12	NW	1	b	1020.6	0	-2	-18	-	0	0	-2		
	Kishinev ...	1019.5	27	NW	1	0	1021.3	+1	27	-	-	0	0	+19		
	Elisabetgrad ...	1020.3	19	ESE	2	S	1021.0	-1	19	+18	-	0	0	14		
	Nicolaiev ...	1019.3	28	-	0	0	1020.8	*	25	+15	E	2	0	9		
	Odessa ...	1018.7	34	SSE	3	0	1021.0	0	27	-1	ENE	2	0	27		
	Tarkhankout ...	1017.7	34	E	4	0	1019.0	*	30	+3	E	5	0	27		
	Seukhoum ...	1015.7	43	ENE	2	0	1015.3	-1	37	+3	SE	1	bc	34		
MEDITERRANEAN.	Venice ...	1020.2	36	-	0	f	1020.6	*	30	+3	NNE	1	b	41	27	
	Pesaro ...	...	...	...	...	...	1021.1	*	34	-	NW	1	f	43	32	
	Rome ...	1016.1	46	-	0	b	1017.4	*	39	-2	N	1	0	54	37	
	Viesti ...	1017.7	46	NW	2	b	1017.8	*	45	-1	NE	2	b	50	41	
	Brindisi ...	1015.5	46	NW	2	b	1015.3	*	50	-7	NW	2	0	54	46	
	Cagliari ...	...	...	...	...	...	1017.1	*	54	0	N	4	b	63	48	
	Palermo ...	1014.1	57	-	0	0	1015.5	*	50	+2	-	0	0	64	46	
	Tripoli ...	...	...	...	...	...	1013.5	*	63	+2	-	0	b	70	50	
	Algiers ...	1014.1	59	SW	3	b	1013.9	-1	57	-2	SW	1	b	68	55	
	Hernösand ...	987.8	32	S	4	bc	989.0	*	27	+4	W	8	c	*	*	
SWEDEN.	Stockholm ...	1002.9	28	SW	4	0	999.0	*	30	+16	W	4	b	*	*	
	Wisby ...	1011.0	32	WSW	6	c	1003.8	*	36	+9	NW	6	b	*	*	

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine.	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine.		
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ...	—	—	45	24	b bc	b	5.2	England, E.	Lowestoft ...	—	—	39	33	o c bc	bc b	1.6
	Banff ...	—	—	44	30	bc b	b	6.9		Felixstowe ...	—	—	38	31	ev bc	bc	2.6
	Montrose ...	—	—	—	—	—	—	—		Walton-on-Naze ...	—	—	—	—	—	—	—
	Carnoustie ...	*	*	—	—	—	—	—		Southend-on-Sea ...	—	—	—	—	—	—	—
	St. Andrews ...	—	—	45	31	—	—	2.4	—	—	—	—	—	—	—	—	—
Eng. N.E.	Harrogate ...	—	—	36	26	c o	o	0.2	England, S.E.	Margate ...	—	—	38	32	b	b	8.0
	Skegness ...	—	—	39	31	c o	o c b	1.8		Ramsgate ...	—	—	37	31	o bc b	b	7.3
Eng. N.W.	Morecambe ...	—	—	—	—	—	—	—		Hastings ...	—	—	36	32	bc b	b	6.8
	Southport ...	—	—	38	26	b bc	c o	3.3		Eastbourne ...	—	—	39	31	b	b	6.7
	—	—	—	—	—	—	—	—		Seaford ...	—	—	40	32	o b	b	6.7
Midlands.	Leamington Spa ...	—	—	—	—	—	—	—		Brighton ...	—	—	40	32	bc b	b	7.5
	Malvern ...	—	—	—	—	—	—	—		Worthing ...	—	—	38	31	o b	b	7.2
	Ross-on-Wye ...	—	—	37	26	cm bc	bc	3.9		Littlehampton ...	—	—	41	30	b	b	8.2
Wales.	Rhyl ...	—	—	40	29	o c bc	bc o	4.3	England, S.W.	Bournemouth ...	—	—	39	31	o c b	b	5.0
	Colwyn Bay ...	*	*	39	28	bc	bc	7.2		Weymouth ...	—	—	40	32	o	o c bc b	3.9
	Llandudno ...	*	*	40	28	b	b bc	6.0		Torquay ...	—	—	39	36	o	o c b	0.0
	Aberystwyth ...	*	*	38	30	c b	bc c	8.0		Paignton ...	—	—	39	31	o	o b	4.2
	Tenby ...	—	—	—	—	—	—	—		Penzance ...	—	—	41	31	b	b	6.7
	—	—	—	—	—	—	—	—		Newquay ...	—	—	37	30	bc b	bc	7.0

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

15-16. February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.12	12.7	5.2
Greenwich ...	7.10	12.7	5.4
	7.16	12.14	5.12
	7.15	12.14	5.13
Wick ...	7.48	12.26	5.4
	7.46	12.26	5.6
Valencia ...	7.58	12.55	5.52
	7.57	12.55	5.53

## NOTES ON YESTERDAY'S WEATHER.

Fine weather continued. Over 7 hours of bright sunshine were experienced in the South East. Maximum temperatures between 35° and 40° were experienced generally and 45° was reached in places. Minima below 32° occurred sporadically.

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.

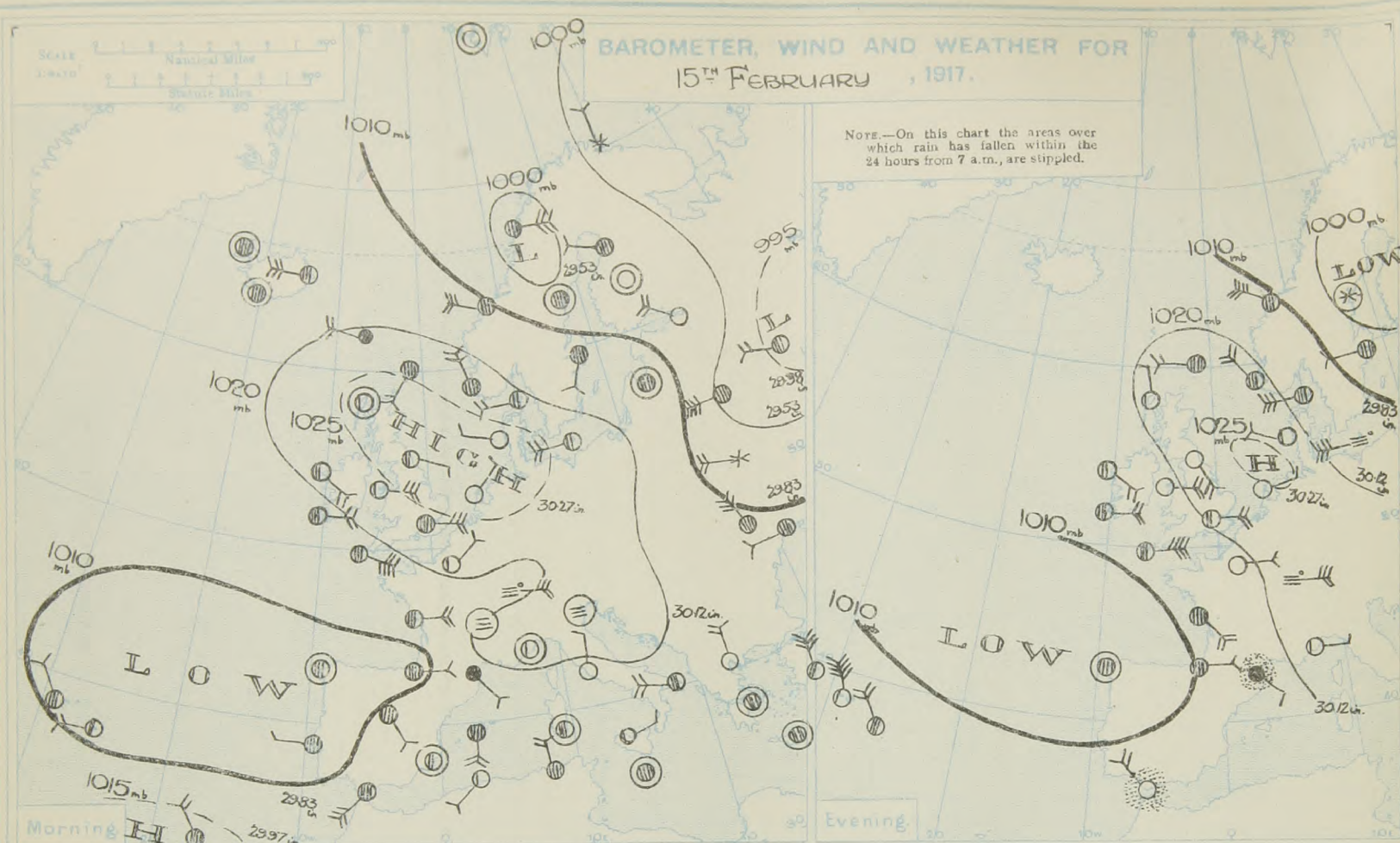
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 47 Friday 16th February

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						Sun- shine for Yester- day Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1022.7	43	W	3	om	1019.9	0	39	-4	-	0	-	bc	0	0.3	45	39	0	om	0. bc	*
	Deerness (Orkney)	1023.0	38	ESE	1	b	1018.6	*	38	+2	ESE	4	SE	c	3	-	43	36	ex. b	c	c. bc. ox	7.2
	Stornoway	1021.4	37	N	1	bz	1015.9	-2	27	-3	N	1	-	bz	1	-	44	27	b	bz	. bz	5.7
	Castlebay (Barra Isd.)	1019.9	42	E	4	b	1016.2	-2	39	-2	SE	4	-	cm	4	-	43	39	0. cm	cm. b	bm. cm	4.0
	Glasgow	1022.1	35	ENE	3	bz	1017.8	-3	25	-4	E	1	SE	b	*	-	41	24	bz	bz	bq. bz	6.1
	Eskdalemuir	1022.9	32	NE	4	b	1017.9	-3	23	-12	NNE	2	-	bx	*	-	37	22	0. c. bc. b	b	b. bx	7.9
	Malin Head	1017.2	37	SE	3	bc m	1013.8	-2	35	-2	SE	3	SE	bc m	3	-	43	33	bc m	bc m	bc m	7.1
	Blackod Point	1015.2	37	SE	3	bc m	1009.7	-3	36	+3	SE	5	SE	cm	4	-	38	31	bc m	bc m	cm. om	*
	Valencia	1012.3	43	E	4	c	1007.7	-2	44	+6	ENE	4	SE	02	*	-	44	38	c. 02	0. c2	c. bc. 02	0.9
	Roche's Point	1015.4	41	E	5	o	1011.1	*	42	+3	E	4	-	o	5	1	43	38	c. o	0. c. om	0. c. om	*
	Birr Castle	1016.4	36	E	1	bc	1011.8	*	36	+2	E	1	-	o	*	-	42	30	c. bc	c. bc	c. o	7.8
	Donaghadee	1019.7	30	SE	4	bm	1014.8	-2	36	+6	SE	3	-	of	3	-	42	35	bc m	cm	of	*
	Liverpool (Bidston)	1021.8	33	ESE	3	b	1016.5	-2	31	-2	ESE	3	E	o	3	-	38	30	b	b	b. o	5.6
	Holyhead	1018.0	37	E	5	bz	1014.2	-1	34	-2	SSE	2	-	cg	1	-	41	33	bz	bz	bx. bc. c	8.5
	Pembroke (St. Ann's)	1016.3	39	E	5	bq	1012.8	-2	35	-1	E	4	-	og	4	-	41	34	bq	bq	bq. cg	7.5
	Scilly (St. Mary's)	1014.1	42	ESE	7	cm	1011.2	-1	46	+5	SE	5	SE	om	6	-	46	40	cm	cm	cm. om	0.7
	Falmouth	1014.5	39	E	7	og	1012.4	-1	42	+3	E	4	-	o	*	-	42	38	og. cg	cg	cg. o. o	2.0
	Jersey (St. Aubin)	1015.1	38	E	4	b	1014.5	*	40	+8	E	2	-	b	2	-	40	30	bm. b	b	bw	8.0
	Portland Bill	1016.9	38	ENE	5	b	1015.1	-1	37	+4	ENE	5	E	o	4	-	39	34	bc	b	b. bc. c	*
	Dungeness	1019.6	35	ENE	4	b	1018.6	0	32	-1	E	2	-	b	2	-	37	32	b	b	b. bx	*
	Dover	1021.5	33	NE	3	m	1018.4	-1	29	-4	-	0	-	f	4	-	36	28	bx. b	bx m	mb. fx	6.8
Wick	1022.7	32	-	0	b	1017.5	-3	38	+11	SSW	2	-	bc	3	-	41	26	bm x	bm	bc m x	*	
Nairn	1022.3	29	-	0	bm	1017.1	*	27	+2	-	0	-	om	0	-	37	21	bx. bz	bm	bc. cm	7.5	
Aberdeen	1023.9	36	S	2	b	1018.9	-1	37	+10	SSE	2	-	o	2	-	42	26	bz	bz	bc. o	6.8	
Leith	1022.6	36	E	1	b	1017.2	-2	31	-5	E	1	-	b	2	-	41	28	cx. bc. b	b	b. bx. b	*	
Tynemouth	1024.5	38	SSE	3	o	1018.9	-2	32	-6	SSW	1	-	om	3	-	42	30	bc	c. o	om	*	
Spurn Head	1024.1	35	ESE	4	c	1019.4	-1	35	+1	SE	4	-	o	5	-	37	32	o	o. c	c. o	0.0	
Yarmouth	1023.2	35	ESE	3	c	1018.4	-2	34	-1	SE	3	-	bc m	3	-	39	35	c. bc	bc. c	bc. c	4.0	
Clacton-on-Sea	1022.2	35	ENE	3	bc	1018.1	-1	33	-2	ENE	1	-	bc	2	-	37	33	0. c. bc	bc	bc. bx	4.8	
Nottingham	1022.9	33	E	3	b	1018.4	*	31	-2	SE	2	-	om	*	-	36	30	o. c	o. c. b	bc. o	0.1	
Benson (Oxon.)	1020.9	33	E	1	b	1016.7	0	24	-10	-	0	NE	bm x	*	-	38	24	bc	b	b	*	
Sth Farnborough	1020.1	33	ENE	4	b	1016.8	-1	27	-6	ENE	1	-	fx	*	-	39	26	0. bc. c.	b. c. b	b. fx	5.9	
London (Kew Obsy.)	1021.4	35	E	4	bc m	1017.5	0	28	-6	ENE	1	-	cf x	*	-	37	27	om	om. bc m	bc m. bm	0.7	
NORTHERN EUROPE.	Spitsbergen	993.6	12	W	4	o	997.6	+3	5	-7	NNE	2	-	o	5	*	12	5	UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....			
	Vardö	993.6	34	NW	6	c	1009.5	+3	23	0	N	2	-	c	2	-	34	23				
	Bodö	993.6	34	NW	6	c	1009.5	+3	23	0	N	2	-	c	2	-	34	23				
	Christiansund	1020.1	39	WNW	7	o	1016.8	+2	32	-2	NW	4	-	s	5	6	41	32				
	Skudesnaes	1020.0	39	MNW	3	b	1017.9	+1	41	0	N	3	-	b	2	-	43	37				
	Færder (X'ania Fjord)	1011.9	36	W	4	b	1013.2	+5	36	+2	ENE	1	-	c	3	-	37	34				
	The Scaw (Skagen)	1015.3	39	W	6	c	1012.8	+1	39	+5	WNW	5	-	c	5	-	43	34				
	Blaavands Huk	1024.3	34	NW	2	b	? 1019.1	-1	34	+4	WNW	2	-	o	2	-	36	28				
	Copenhagen	1018.6	37	WNW	5	c	1014.9	+1	36	+6	WNW	4	-	e	*	-	37	30				
	Bornholm	1016.4	34	W	7	m	1012.8	+1	34	+6	WNW	6	-	m	1	-	36	30				
FRANCE, &c.	The Helder	1024.6	30	ENE	1	b	1020.0	-2	25	-2	ENE	1	-	b	1	-	32	25	GALES Duration and Extreme Force in British Islands.  Aurora was observed on Thursday evening at:-  Deerness Stornoway Castlebay Eskdalemuir Malin Head Blackod Point Liverpool Holyhead Wick Nairn Aberdeen Leith.			
	C. Gris Nez	1021.0	33	E	4	b	1016.8	0	28	0	SE	1	-	b	1	-	37	28				
	La Hève	1016.8	37	E	4	m	1015.1	0	37	+10	SE	3	-	m	2	-	39	34				
	Brest (St. Mathieu)	1011.7	45	E	4	o	1011.1	-1	45	+9	ESE	4	-	o	3	-	46	43				
	Rochefort (Ile d'Aix)	1012.7	51	SSE	4	o	1014.3	0	45	+7	SSE	4	-	o	*	-	55	45				
	Biarritz	1010.0	56	E	2	o	1013.9	+2	53	+7	S	3	-	b	1	-	63	52				
	Paris	1018.9	36	E	2	b	1018.6	+1	30	+11	SE	1	-	o	*	-	45	19				
	Belfort	1023.7	28	E	5	m	1023.2	*	28	+9	-	0	-	m	*	-	38	22				
	Lyons	1021.6	44	E	1	b	1024.8	+1	38	-4	E	4	-	bc	4	-	54	36				
	Nice	1017.3	50	SE	1	r	1019.0	+1	50	0	SE	1	SE	r	12	54	48					
SOUTHERN STATIONS.	Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	Vertical Component of Solar Radiation per square Centimetre during Yesterday.  Total.      Average Rate.      Max. Rate. Joules.      Milliwatts.      Milliwatts. 269      7.5      26.5  Temperatures at Greenwich and Cam- den Square are from Glaisher screens.			
	Corunna	1006.6	59	-	0	o	1013.6	+2	52	+4	SSE	1	-	c	2	1	61	50				
	Madrid	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Lisbon	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Azores (Horta)	1011.9	*	W	8	b	*	*	*	*	*	*	*	*	*	*	*	*				
	Madeira	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Gibraltar	1018.9	55	NW	3	b	1022.3	*	54	0	NW	4	-	r	2	7	60	52				
	Malta	*	*	*	*	*	? 1025.1	+4	54	0	ENE	5	-	c	4	-	59	54				
	Limassol	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Alexandria	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Cairo (Helwan)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	24 HOURS ENDED 9 h. TO-DAY.										SOUTH KENSINGTON.							
		13 h. Yester- day.	9 h. To- day.		TEMPERATURE.		Rain- fall.		WEATHER.		Night											
GREENWICH (Royal Observatory)		%	%	Hours.	°F.	°F.	°F.	mm.	Morn- ing.	After- noon.	Night	Morn- ing.		After- noon.		Night.						
CITY (Bunhill Row)		73	100	2.9	39	24	19	-	0. c	bc. b	bx	0. c		bc. b		bc. b						
WESTMINSTER (St. James's Park)		*	*	1.3	*	*	*	-	*	*	*	*		*		*						
CAMDEN SQ. (British Rainfall)		75	91	2.0	39	30	25	-	b	b	bc. f	b		0. bc		0. bc						
HAMPSTEAD (Reservoir)		79	?	2.2	39	26	24	-	o	o. bc	*	o. bc		bx		of x						
S. KENSINGTON (Museum Grounds)		*	98	2.8	36	26	16	-	0. bc	bx	of x	0. bc		c. bc. b		b						
RICHMOND PARK		*	?	0.8	39	30	?	-	om. o. c	c. bc. b	*	om. o. c		c. bc. b		b						



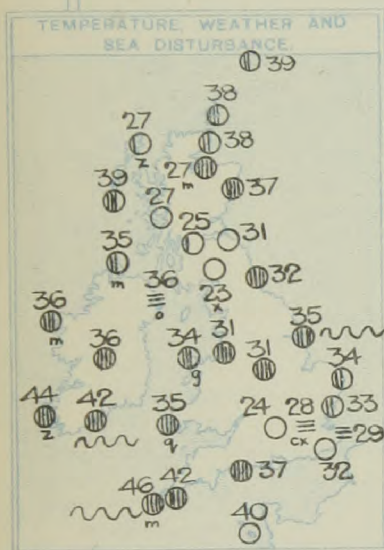




# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 16<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

The barometer is falling generally, the anticyclone over the North Sea will continue to dominate the conditions over the British Isles.



## EXPLANATION.

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

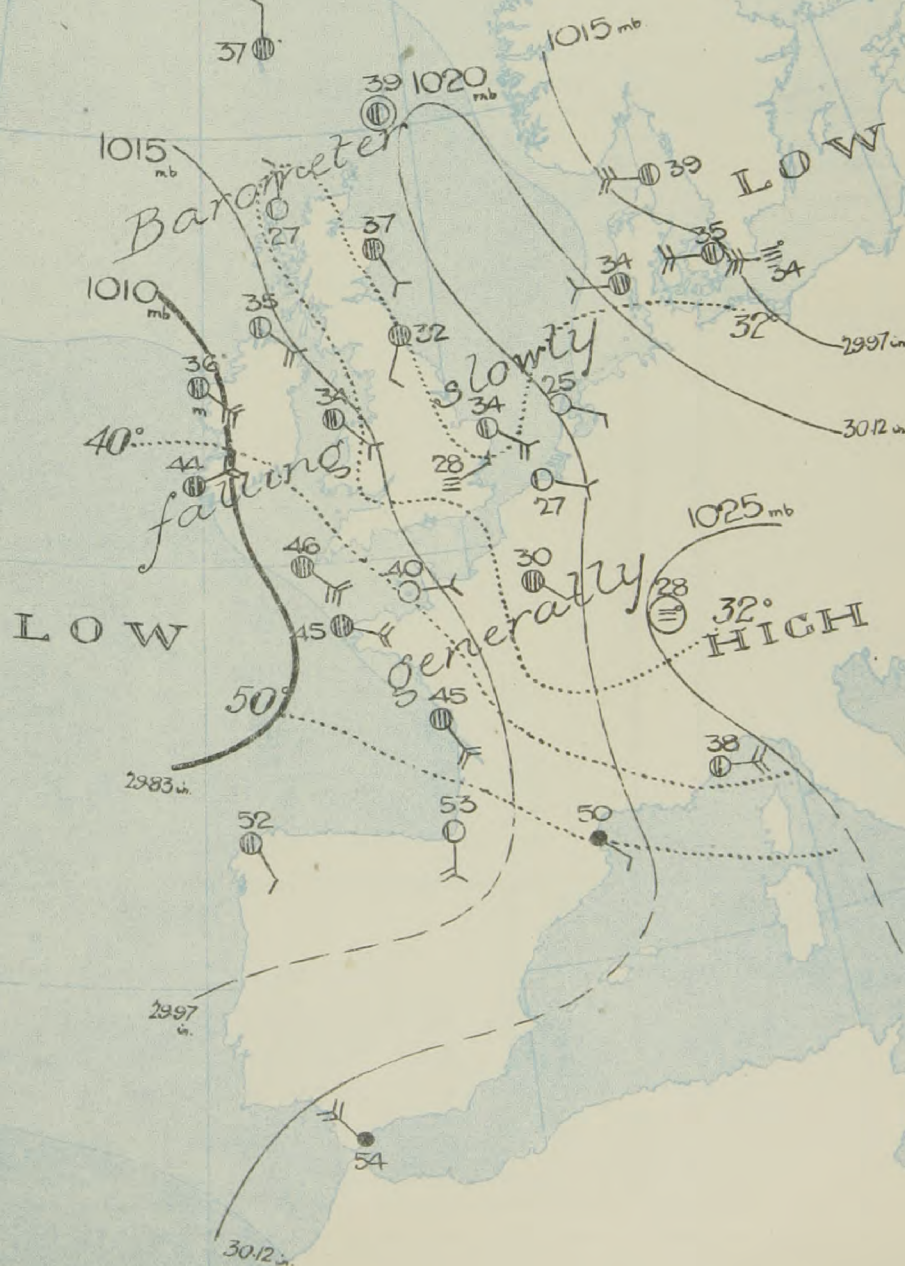
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

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

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

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

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



SCALE 1:100,000  
 Nautical Miles  
 Statute Miles

Normal Temperature of the Sea

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



## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.			MORNING.								
	Barom. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Weather.	Rain fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.		
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Dir.	Force 0-12.			Max.	Min.			Dry Bulb. ° F.	Change in 24 hours. ° F.	Dir.	Force 0-12.			
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	999.7	5	NW	1	0	999.0	+1	23	+11	W	8	0	2	*	1	Isafjord	1013.9	34	+2	-	0	0	
	Gorki	993.7	25	W	3	0	1005.2	*	9	-14	W	4	6	2	*	9	Reykjavik	1014.4	39	0	-	0	0	
	Veliki Luki	991.9	25	SW	2	6	1005.2	*	9	-14	W	4	6	2	*	9	Vestmanna	1016.0	39	-4	-	0	0	
	Hangö	1004.0	16	WNW	6	6	1012.8	+1	10	-20	NNW	1	6	1	*	7	Seydisfjord	1014.0	41	+16	W	6	C	
	Riga	999.9	25	N	4	0	1004.0	+2	21	-11	-	0	0	-	*	16	Thorshavn	1020.6	40	+3	WNW	4	C	
	Petrograd	996.6	23	WNW	4	S	1004.0	+1	5	-23	NW	4	6	-	28	6								
	Moscow	991.7	25	WSW	3	C	991.9	0	21	+9	WNW	3	C	-	*	12								
	Kiev	1007.1	21	W	4	S	1005.1	+3	23	+13	WNW	4	S	-	*	9								
	Kharkov	1009.6	19	W	3	6	1002.7	-1	18	+20	SSW	2	0	-	*	-2								
	Kishinev	1013.7	18	-	0	0	1012.4	0	28	+1	NNW	5	0	-	*	12								
MEDITERRANEAN.	Elisabetgrad						1006.9	-1	27	+8	W	1	6	-	*	12								
	Nicolaiev	1014.7	18	W	2	C	1011.1	*	19	-6	W	2	0	-	*	14								
	Odessa	1016.0	21	WNW	3	6	1012.6	-1	23	-4	NNW	4	0	-	*	16								
	Tarkhankout	1015.7	36	-	0	6	*							-	*									
	Soukhom													-	*									
	Venice	1020.2	28	WNW	1	6	1023.4	*	25	-5	N	1	f	-	45	25								
	Pesaro	1024.1	32	WSW	1	6	1024.2	*	28	-6	W	1	f	-	38	27								
	Rome	1017.7	46	NW	1	6	1019.1	*	36	-3	N	1	f	-	54	36								
	Viesti	1017.9	46	NW	3	6	1019.1	*	45	0	NW	5	C	-	48	41								
	Brindisi	1016.5	48	NW	4	6	1016.1	*	50	0	NNW	4	C	-	52	43								
SWEDEN.	Cagliari	1015.4	57	NW	4	C	1017.8	*	54	0	-	0	C	-	63	46								
	Palermo	1016.3	50	WSW	1	6	1017.3	*	45	-5	ENE	1	6	-	61	41								
	Tripoli						1014.7	*	59	-4	SSE	1	0	Trace	64	57								
	Algiers	1011.1	57	WNW	4	r	1012.2	+1	65	-2	SW	2	6	4	72	54								
	Hernösand	1011.0	23	W	4	6	1000.8	*	27	0	-	0	0	*	*	*								
	Stockholm	1011.9	28	N	6	6	1010.7	*	25	-5	SSW	2	0	*	*	*								
	Wisby	1011.0	32	NW	8	C	1016.2	*	30	-6	WNW	6	C	*	*	*								
																		Hours of Observation G.M.T.						
																				Morning.	Evening.			
																				h.	h.			
																			British Isles	7	18			
																			France	7	18			
																			Norway	7	18			
																			Sweden	7	17			
																			Denmark	7	18			
																			Holland	7	18			
																			Italy	7	20			
																			Egypt	6	18			
																			Corunna	7	16			
																			Madrid	8	16			
																			Lisbon	7	21			
																			Azores	8	17			
																			Madeira	7	21			
																			Malta	8	-			
																			Limassol	6	-			

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	-
Limassol	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine			
	Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.				
Scotland.	Oban ... ..	-	-	45	27	b	b	67	England, E.	Lowestoft ... ..	-	-	40	35	c	c.	50	
	Banff ... ..	-	-	43	21	b	b	84		Felixstowe ... ..	-	-	39	33	c bc	bc b	56	
	Montrose ... ..	-	-							Walton-on-Naze ... ..	-	-						
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	37	32	o c.	c bc b	41	
	St. Andrews ... ..																	
Eng. N.E.	Harrogate ... ..	Trace	-	35	32	c o	o	00	England, S.E.	Margate ... ..	-	-	37	33	c	b	49	
	Skegness ... ..	Trace	-	39	32	c o	bc o	27		Ramsgate ... ..	-	-						
Eng. N.W.	Morecambe ... ..									Hastings ... ..	-	-	37	32	b	b	85	
	Southport ... ..	-	-	39	31	bc b	bz bc b	53		Eastbourne ... ..	-	-	37	33	b	b	77	
Midlands.	Leamington Spa ... ..									Seaford ... ..	-	-	40	31	o	o	82	
	Malvern ... ..									Brighton ... ..	-	-	42	32	b	b	85	
	Ross-on-Wye ... ..	-	-	38	29	c bc	c b	54		Worthing ... ..	-	-	42	32	b	b	87	
Wales.	Rhyl ... ..	-	-	40	32	c bc	bc	62		England, S.W.	Littlehampton ... ..	-	-	41	31	b	b	85
	Colwyn Bay ... ..	*	*	40	33	bc	bc	82			Bognor ... ..	-	-					
	Llandudno ... ..	*	*	41	33	b	b	75	Bournemouth ... ..		-	-	42	31	b	b	82	
	Aberystwyth ... ..	*	*	43	32	o c b	b bc	80	Weymouth ... ..		-	-	44	32	b	bz	75	
	Tenby ... ..								Torquay ... ..		-	-	40	35	o c	bc b	35	

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

16th & 17th February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.10	12.7	5.4
Greenwich	7.15	12.14	5.13
Wick	7.46	12.26	5.6
Valencia	7.57	12.55	5.53

## NOTES ON YESTERDAY'S WEATHER.

The weather was fine and bright. The amount of bright sunshine exceeded eight hours at stations in all parts of the country. Night frost was experienced very generally. The maxima during the day ranged from 36° at Dover and Nottingham to 45° at Lerwick and 46° at Scilly.

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

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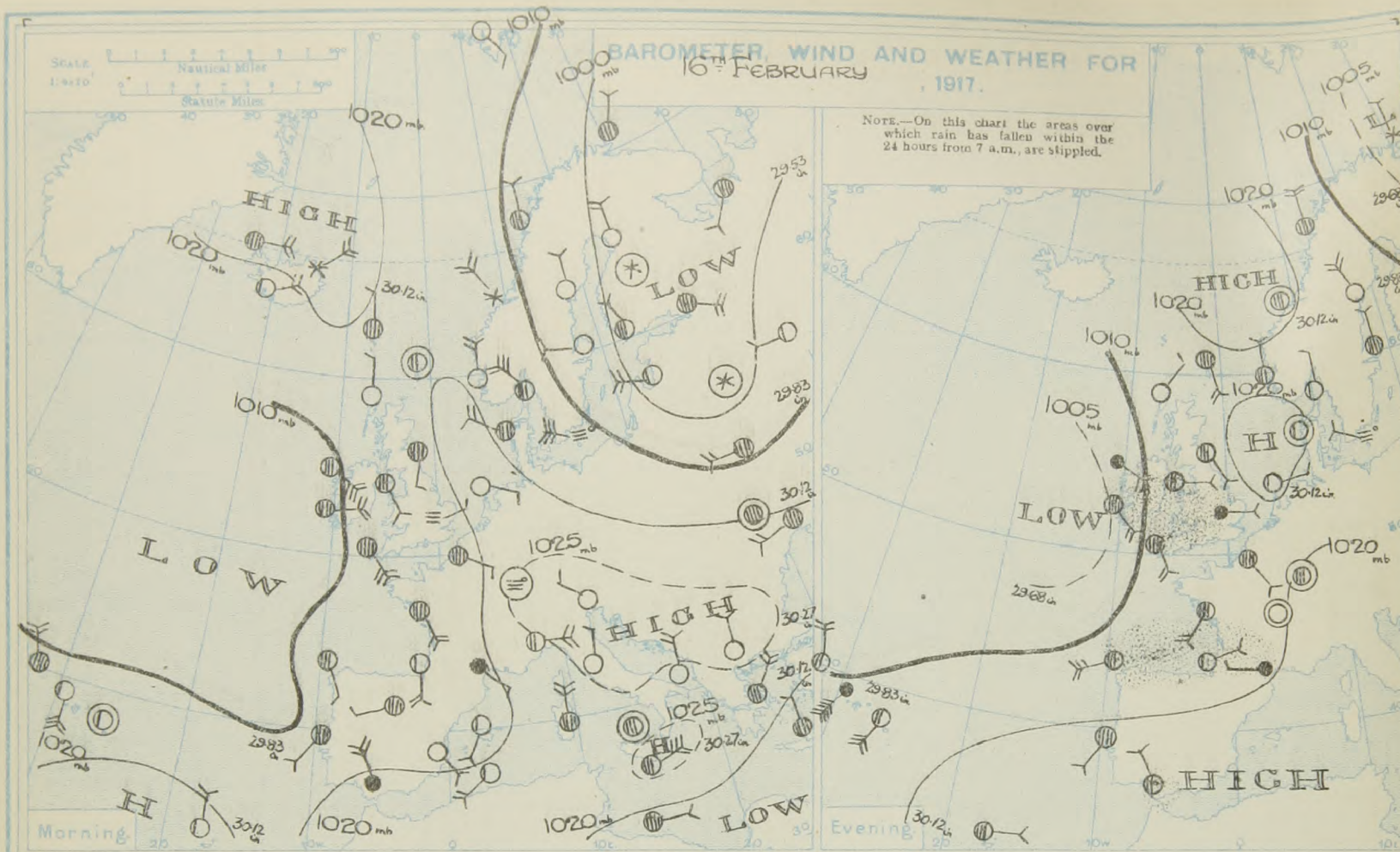
STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.							Sun- shine for Yester- day.  Hours.
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer Milli- bars at M.S.L.	Change in 5 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12						Direc.	Force 0-12					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																							
Lerwick	1014.4	43	SSE	3	om	1018.5	0	41	+2	SE	4	-	o	4	2	45	37	bc	bc.o	om	*		
Deerness (Orkney)	1016.9	38	SE	5	bc	1015.2	*	39	+1	SE	5	-	o	4	-	40	38	c	c.bc	bc.c	1.2		
Stornoway	1012.8	35	NE	1	bc	1013.1	+1	35	+8	N	1	-	o	0	-	44	27	bc	bc	bc.oz	5.1		
Castlebay (Barra Isd.)	1012.9	42	SE	4	om	1012.9	0	42	+3	SE	5	-	om	5	4	42	38	c.om	c.om	omp.om	1.9		
Glasgow	1015.8	31	NE	3	c	1015.5	+1	33	+8	ESE	3	-	o	*	0.1	34	25	c	e	bc.o	0.3		
Eskdalemuir	1015.8	30	N	3	o	1015.4	0	30	+7	N	3	-	om	*	-	32	23	bc.bc.c	c.bc.o	abc.om	3.3		
Malin Head	1010.2	39	E	3	bm	1011.7	+1	39	+4	SE	2	-	om	3	-	40	33	om	bm	om	0.0		
Blacksod Point	1006.8	38	SE	4	cmd	1009.0	+2	42	+6	S	1	-	omd	3	3	42	35	egm	cmd	om.ond	*		
Valencia	1005.0	44	SE	4	o	1012.5	+4	46	+2	W	3	-	o	4	17	51	44	o.c	c.or	o.c.p.o	0.0		
ROCHE'S POINT.																							
Birr Castle	1007.9	44	SE	5	fr	1011.9	*	43	+1	W	2	-	o	4	7	45	43	fr	far	for.o	*		
Donaghadee	1008.9	40	SE	2	o	1010.3	*	42	+6	SE	1	-	o	*	1	42	36	or.oe	oe	o	0.0		
Liverpool (Bidston)	1012.0	40	SE	4	of	1012.4	0	40	+4	SE	3	-	ofr	3	0.3	41	36	off	of	ofp	*		
Holyhead	1013.6	36	ESE	3	c	1013.9	+1	35	+4	ESE	3	E	og	3	1	39	31	om	bc	org	1.4		
Pembroke (St. Ann's)	1011.5	42	E	2	cmg	1012.7	+1	42	+8	SE	3	-	fe	2	2	46	33	bc.c.o	bc.cpm	c.opfd	1.6		
Scilly (St. Mary's)	1011.2	39	E	4	oz	1013.4	+3	41	+6	SE	2	-	f	2	1	41	35	oz	ozp	fpd	0.2		
FALMOUTH.																							
Falmouth	1010.3	48	S	3	omp	1012.2	-	42	-4	WSW	2	-	bc	-	?	-	-	om	om	omp	-		
Jersey (St. Aubin)	1012.2	44	ESE	1	odm	1014.8	+3	45	+3	WSW	1	-	o	*	3	47	41	o.oe	odm	dmr.om	0.0		
Portland Bill	1013.7	44	SE	2	o	1016.9	*	43	+3	SSW	1	-	fe	1	3	45	39	bc.or	bc.o	omfe	0.5		
Dungeness	?	40	ESE	3	o	1014.5	+3	42	+5	SW	3	-	fd	3	2	42	37	c.o	or.c	omfr	*		
Dover	1015.8	38	NE	1	o	1016.4	0	38	+6	SW	2	-	of	3	2	39	38	bc.o	o	bc.opf	*		
Wick	1018.5	40	-	0	m	1016.9	+3	40	+11	SW	2	SW	m	3	0.4	42	28	bf	bc.cm	cmfe	3.6		
WICK.																							
Nairn	1016.1	39	SE	3	o	1015.0	-1	38	0	SE	4	-	c	4	-	40	36	bc	c.omg	acmg	*		
Aberdeen	1014.1	30	-	0	cm	1014.2	*	28	+1	-	0	-	egm	0	0.1	32	23	bc	bc.cm	cm	1.6		
Leith	1017.5	37	SSE	3	o	1016.9	0	39	+2	SSE	3	-	o	2	-	40	37	o.bc	bc.o	o	2.7		
Tynemouth	1015.8	34	E	1	c	1015.0	0	32	+1	SW	1	SW	c	2	-	35	29	bc.bc	bc.c	bc.bmc	*		
Spurn Head	1016.5	35	SSE	2	cm	1015.8	0	35	+3	S	1	-	cm	3	-	35	30	cm	cm	bc	*		
Yarmouth	1016.6	36	SE	2	cm	1015.1	-1	36	+1	SE	2	-	omr	4	4	38	34	c	c	om	0.5		
CLACTON-ON-SEA.																							
Clacton-on-Sea	1016.3	35	ESE	1	c	1016.0	0	37	+3	ESE	1	-	om	1	-	39	33	bc	bc	om	2.7		
Nottingham	1015.9	37	E	2	c	1015.8	0	37	+4	S	1	-	o	1	1	40	32	bc	bc.cm	c.ogmp	4.3		
Benson (Oxon.)	1015.0	32	ESE	2	o	1015.5	*	34	+3	E	1	-	om	*	4	35	30	om	o	o	0.0		
Sth Farnborough	1015.0	34	N	1	m	1015.2	0	36	+11	-	0	-	f	*	3	38	22	om	orm	m	*		
London (Kew Obsy.)	1014.7	37	E	1	o	1014.7	+1	39	+12	S	2	-	f	*	3	42	26	fe.om	or.om	or.of	1.3		
London (Kew Obsy.)	1015.6	39	ESE	2	ofr	1015.4	+1	38	+10	-	0	-	f	*	4	42	27	bcx.of	of.ofr	ofr	0.0		
NORTHERN EUROPE.																							
Spitsbergen	1003.3	3	N	2	S	1010.1	+5	1	-4	NNE	3	-	S	4	*	5	1						
Vardö	1013.6	27	N	4	o	1016.3	-1	27	+4	W	2	-	c	2	-	27	19						
Bodö	1013.6	27	N	4	o	1016.3	-1	27	+4	W	2	-	c	2	-	27	19						
Christiansund	1021.7	34	-	0	c	1022.1	0	32	0	-	0	-	o	4	-	36	30						
Skudesnaes	1019.4	34	NNW	2	c	1021.3	0	36	-5	S	2	-	c	2	-	41	34						
Færder (X'ania Fjord)	1019.9	34	WSW	1	b	1023.4	+1	27	-9	ESE	1	-	o	1	-	36	27						
The Scaw (Skagen)	1019.7	36	N	1	b	1023.3	+1	32	-7	SE	2	-	b	2	-	41	28						
Blaavands Huk	1020.3	32	-	0	b	1021.2	+1	32	-2	ESE	1	-	f	1	-	37	28						
Copenhagen	1018.1	34	NNW	1	m	1023.4	+2	28	-8	ESE	1	-	bc	*	-	37	27						
Bornholm	1016.7	34	NW	2	m	1023.0	+2	30	-4	NNE	1	-	b	0	-	39	28						
FRANCE, &c.																							
The Helder	1021.0	30	ESE	1	b	1017.3	0	30	+5	ESE	2	-	o	1	-	36	25						
C. Gris Nez	1015.4	42	S	3	o	1015.8	0	39	+11	S	4	-	r	3	2	45	39						
La Hève	1013.3	48	S	4	o	1016.6	*	?	-	SW	2	-	o	1	-	48	41						
Brest (St. Mathieu)	1012.7	47	S	3	o	1017.2	+2	46	+1	SW	4	-	c	3	-	47	43						
Rochefort (Ile d'Aix)	1017.2	48	SSW	3	c	1019.3	+2	43	-2	-	0	-	r	*	1	54	43						
Biarritz	1016.7	54	ESE	2	b	1021.1	+3	47	-6	WSW	3	-	r	2	11	63	46						
PARIS.																							
Paris	1017.9	45	SE	1	o	1019.7	+2	41	+11	S	2	-	o	*	-	54	30						
Belfort	1021.9	46	-	0	c	1024.3	*	36	+8	-	0	-	c	*	-	50	36						
Lyons	1021.5	42	W	1	c	1022.6	*	37	-	WSW	1	-	o	*	-	49	36						
Nice	1019.9	48	W	1	r	1020.7	0	46	-4	W	1	-	o	*	7	52	45						
Perpignan	1019.9	48	W	1	r	1020.7	0	46	-4	W	1	-	o	*	7	52	45						
Sanguinaire	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SOUTHERN STATIONS.																							
Corunna	1015.6	54	WSW	4	c	1025.1	+3	48	-4	S	1	-	b	4	5	57	46						
Madrid	1021.2	52	SW	2	o	1023.5	+1	45	-9	NE	3	-	o	5	2	59	45						
Lisbon	1021.2	52	SW	2	o	1023.5	+1	45	-9	NE	3	-	o	5	2	59	45						
Azores (Horta)	1010.4	*	SSW	9	r	1022.3	0	54	-1	S	2	-	r	2	6	64	54						
Madeira	1022.3	63	E	2	c	1023.0	0	54	-1	S	2	-	r	2	6	64	54						
Gibraltar	1024.4	53	NW	2	b	1025.0	*	52	-2	NW	4	-	b	0	10	62	50						
Malta	*	*	*	*	*	1026.0	+3	55	+1	NNE	3	-	o	3	-	59	54						
Limassol	*	*	*	*	*	1018.9	+1	50	+2	-	0	-	b	2	7	61	37						
Alexandria	1018.4	57	NNW	5	o	1022.7	+3	57	+2	N	3	-	bc	2	-	64	54						
Cairo (Helwan)	1018.0	54	N	1	o	1027.7	+4	50	-4	NNW	1	-	b	*	5	64	46						
24 HOURS ENDED 9 H. TO-DAY.																							
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.				Rain- fall.	WEATHER.			SOUTH KENSINGTON.										
15 h. Yester- day.		9 h. To-day.			Max.	Min.	Min. on Grass.	Morn- ing.		After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.											
GREENWICH (Royal Observatory)		77	98	0.6	41	24	33	4	bc	com	o	Total.											
CITY (Bunhill Row)		76	98	0.0	43	31	29	4	om	om	odr	Average Rate.											
WESTMINSTER (St. James's Park)		76	98	0.0	43	31	29	4	om	om	odr	Max. Rate.											
CAMDEN SQ. (British Rainfall)		78	100	0.0	42	29	32	4	om	om	*	Joules.											
HAMPSTEAD (Reservoir)		*	100	0.0	40	34	29	4	bc	com	ofb	Milliwatts.											
S. KENSINGTON (Museum Grounds)		*	94	0.0	42	31	36	5	omx.om	om.m	radm	205											
RICHMOND PARK		*	*	0.0	*	*	*	*	*	*	*	5.7											
												18.5											
												Temperatures at Greenwich and Cam- den Square are from Glaisher screens.											

## RAINFALL.

Equivalents of Millimetres  
in Inches.

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





# 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

Light winds between South-East and South-West; dull, rain at times, mist or fog; milder.

Light South-easterly airs, veering to South-West; dull, rain at times, mist or fog; milder.

Light South-Westerly winds; dull, rain at times, mist; fog on coast; milder

Same as Nos. 2-4

Same as No. 5.

Same as Nos. 2 - 4.

Same as Nos. 5 & 8.

Moderate or light South-Westerly winds, moderate sea, misty, occasional rain.

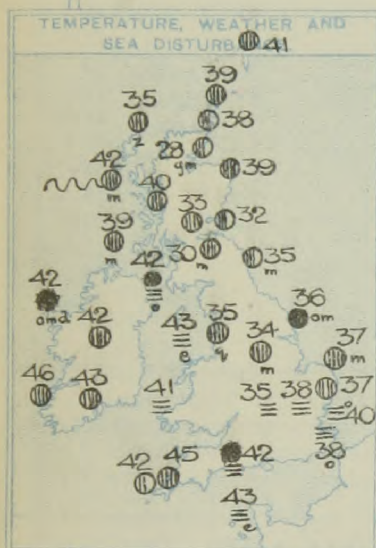
## FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF *Saturday 17<sup>th</sup>* FEBRUARY, 1917.

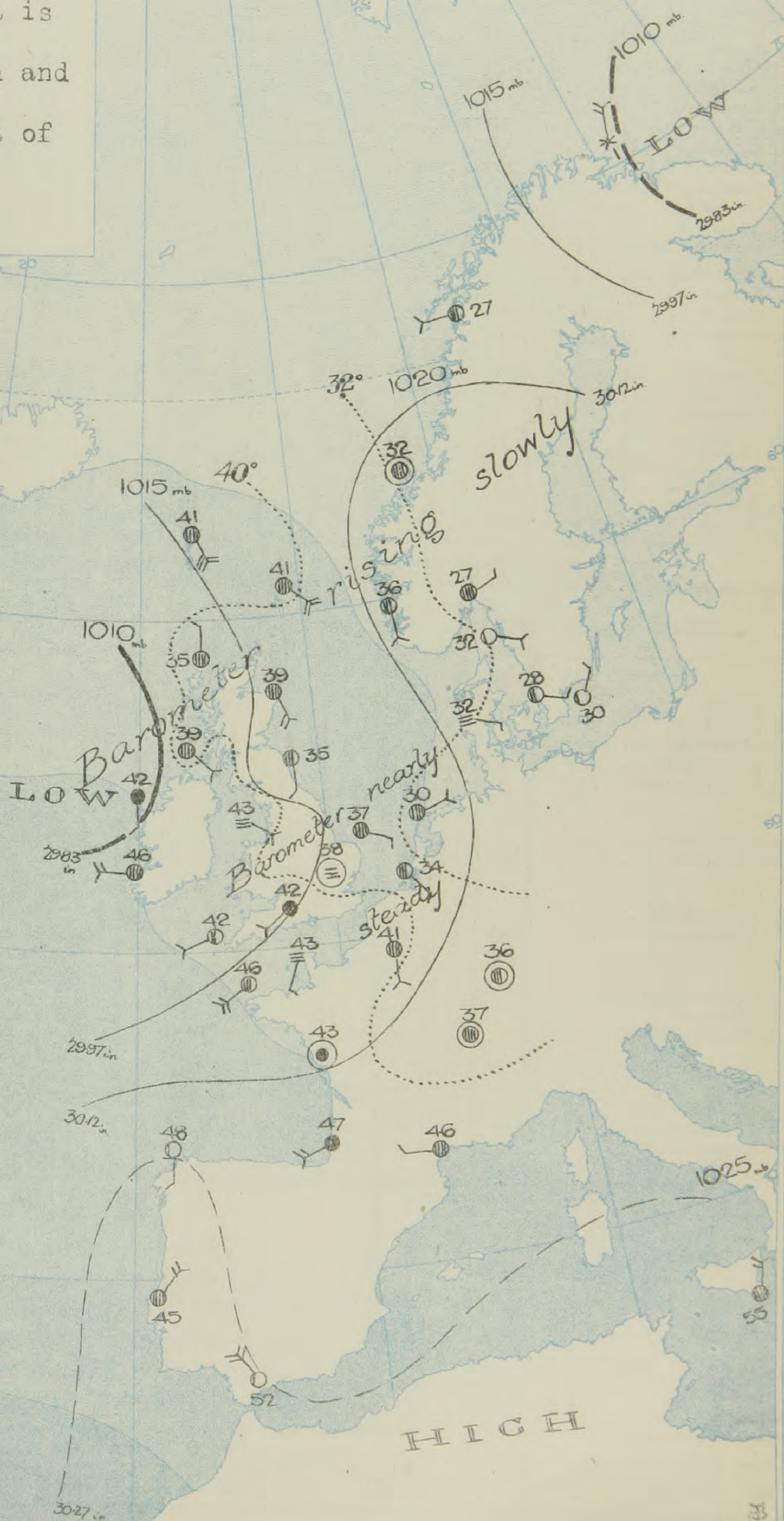
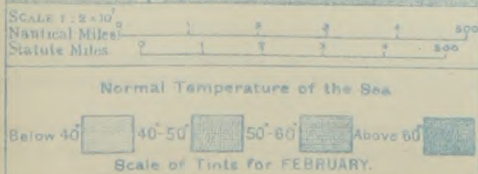
## GENERAL INFERENCE.

The South-Westerly current is likely to spread to the Irish and North Sea and extend the area of fog and mist.



## 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. T, thunder.  
 thunderstorm.
- SEA DISTURBANCE**—Rough High





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.			MORNING							
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Force 0-12.	Weather.	Rain- fall, Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.					Max.	Min.		Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.	
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	998.0	-13	NNW	1	bc	998.9	+1	-4	SW	2	0	-	-	-17	1020.6	36	E	4	0	
	Gorki	1008.7	7	-	0	b	999.7	-2	12	-	0	S	-	-	7	1017.0	37	E	6	0	
	Velieki Luki	1009.3	-2	-	0	b	999.1	*	5	SE	3	0	2	-	-4	1016.6	37	NE	4	0	
	Hangö	999.5	28	SSW	1	bc	997.0	+2	28	NNW	2	C	?	-	7	1023.4	30	NE	4	0	
	Riga	1003.9	30	W	2	0	997.6	-2	41	WNW	4	b	8	*	21	1019.9	37	N	1	0	
	Petrograd	1005.5	3	SSW	2	C															
	Moscow	1002.9	5	W	3	bc	1004.2	0	-2	W	2	b	-	*	-2						
	Kiev	1016.3	16	WNW	4	bc	1008.4	+4	23	W	3	0	1	*	14						
	Kharkov	1010.6	14	NW	4	0	1013.0	0	-2	SW	1	bc	-	*	-2						
	Kishinev	1021.5	28	NW	2	b	1017.7	-6	23	-	0	0	-	*	14						
MEDITERRANEAN.	Elisabetgrad	1018.0	10	NW	2	b	1013.7	-4	19	W	4	0	-	*	5						
	Nicolaiev	1018.0	19	NW	5	b	1017.7	*	16	SSW	4	0	-	*	9						
	Odessa	1021.6	19	NNE	4	b	1020.2	-4	19	W	3	0	-	*	12						
	Tarkhankout.	1018.7	30	NW	9	bc															
	Soukhoum						1022.3	?	27	NW	4	bc	-	*	21						
	Venice	1026.1	37	NE	1	b	1026.1	*	28	NW	1	b	-	45	25						
	Pesaro	1026.9	46	WNW	2	b	1027.4	*	27	SW	1	b	-	45	26						
	Rome	1022.5	45	NW	1	b	1025.3	*	34	N	1	b	-	54	34						
	Viesti	1023.9	45	WNW	2	b	1025.7	*	43	W	1	b	-	50	41						
	Brindisi	1020.9	50	WSW	1	b	1023.7	*	48	N	3	b	-	54	48						
SWEDEN.	Cagliari	1021.0	57	N	4	C	1021.0	*	54	0	N	4	0	-	63	46					
	Palermo						1022.3	*	50	+5	-	0	C	-	61	43					
	Tripoli						1016.2	*	64	+5	E	2	0	2	70	59					
	Algiers	1015.7	55	-	0	b	1020.6	+3	54	-1	SW	3	b	-	66	54					
SWEDEN.	Hernösand	998.1	34	-	0	S	1005.6	*	28	+1	N	2	b	*	*	*					
	Stockholm	1005.0	36	W	2	0	1005.9	*	30	+5	WNW	2	b	*	*	*					
	Wisby	1007.8	36	WSW	4	b	1006.7	*	36	+6	NNW	8	b	*	*	*					

HOURS OF OBSERVATION G.M.T.				
	Morning.	Evening.		
British Isles	7	18		
France	7	18		
Norway	7	18		
Sweden	7	17		
Denmark	7	18		
Holland	7	18		
Italy	7	20		
Egypt	6	18		
Corunna	7	16		
Madrid	8	16		
Lisbon	7	21		
Azores	8	17		
Madeira	7	21		
Malta	8	-		
Limassol	6	-		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	-
Limassol	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			Night. 18h-9h.	Day. 9h-18h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	—	—	43	26	b	bc.0	0.9	England, E.	Lowestoft ... ..	—	—	39	32	b, bcm	bc.cm	5.9
	Banff ... ..	—	—	40	29	c, bc	bc.c	4.3		Felixstowe ... ..	—	—	39	32	b, bcm	bc.cm	5.9
	Montrose ... ..	—	—	—	—	—	—	—		Walton-on-Naze ... ..	—	—	—	—	—	—	—
	Carnoustie ... ..	*	*	—	—	—	—	—		Southend-on-Sea ... ..	—	—	40	26	bz	b, bcz.	2.8
	St. Andrews ... ..	—	—	36	22	o	o	0.0		—	—	—	—	—	—	—	—
Eng. N.E.	Harrogate ... ..	—	—	33	26	o.c	o.c	0.0	England, S.E.	Margate ... ..	—	—	40	30	b	bc, cz.	3.7
	Skegness ... ..	—	—	38	31	o.b	bc.	2.3		Ramsgate ... ..	—	—	—	—	—	—	—
Eng. N.W.	Morecambe ... ..	—	—	40	26	—	—	2.3		Hastings ... ..	—	—	—	—	—	—	—
	Southport ... ..	—	—	40	26	c, bc	bc, b.	2.2		Eastbourne ... ..	—	—	39	27	og	od, r	0.0
Midlands.	Leamington Spa ... ..	—	—	—	—	—	—	—		Seaford ... ..	*	*	44	28	o.g	r.	0.0
	Malvern ... ..	—	—	—	—	—	—	—		Brighton ... ..	—	Trace	43	29	c.o.	o.r	1.5
	Ross-on-Wye ... ..	—	Trace	38	27	x, bc	bcm.	1.9	Worthing ... ..	—	—	40	30	bc	o	1.7	
Wales.	Rhyl ... ..	—	—	44	29	x, c, bc	c, bc.	3.6	Littlehampton ... ..	—	Trace	39	34	bz	o	1.5	
	Colwyn Bay ... ..	—	—	48	29	bc	bc.	8.0	Bognor ... ..	*	*	—	—	—	—	—	
	Llandudno ... ..	—	—	48	30	bc	b.	4.8	Bournemouth ... ..	—	Trace	44	30	c	c, or	0.5	
	Aberystwyth ... ..	*	*	45	34	cb	c.o.	1.2	Weymouth ... ..	*	*	42	33	z, bc	bc, c, or.	0.9	
	Tenby ... ..	—	—	—	—	—	—	—	Torquay ... ..	Trace	3	44	38	o	or.	0.0	
									Paignton ... ..	*	0	42	37	od.	od.	0.0	
									Penzance ... ..	—	1	45	41	om, f	om, f	0.0	
									Newquay ... ..	—	—	45	35	o	o.	0.5	
									Bude ... ..	—	2	48	37	—	—	2.0	
									Ilfracombe ... ..	Trace	Trace	44	33	bc, c.	g, or.	3.5	
									Weston-s-Mare ... ..	—	—	41	30	c, bc, c.	g, cm.	0.0	

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

17th & 18th February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.8	12.7	5.6
	7.6	12.7	5.8
Greenwich	7.13	12.14	5.15
	7.11	12.14	5.17
Wick	7.44	12.26	5.8
	7.41	12.26	5.11
Valencia	7.55	12.55	5.55
	7.53	12.55	5.57

## NOTES ON YESTERDAY'S WEATHER.

The weather became dull during the day, with rain towards the evening in the West and South. Valencia reports 17 mm. Eight hours of sunshine were experienced at Colwyn Bay and five at Stornoway. Temperature became milder.

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.

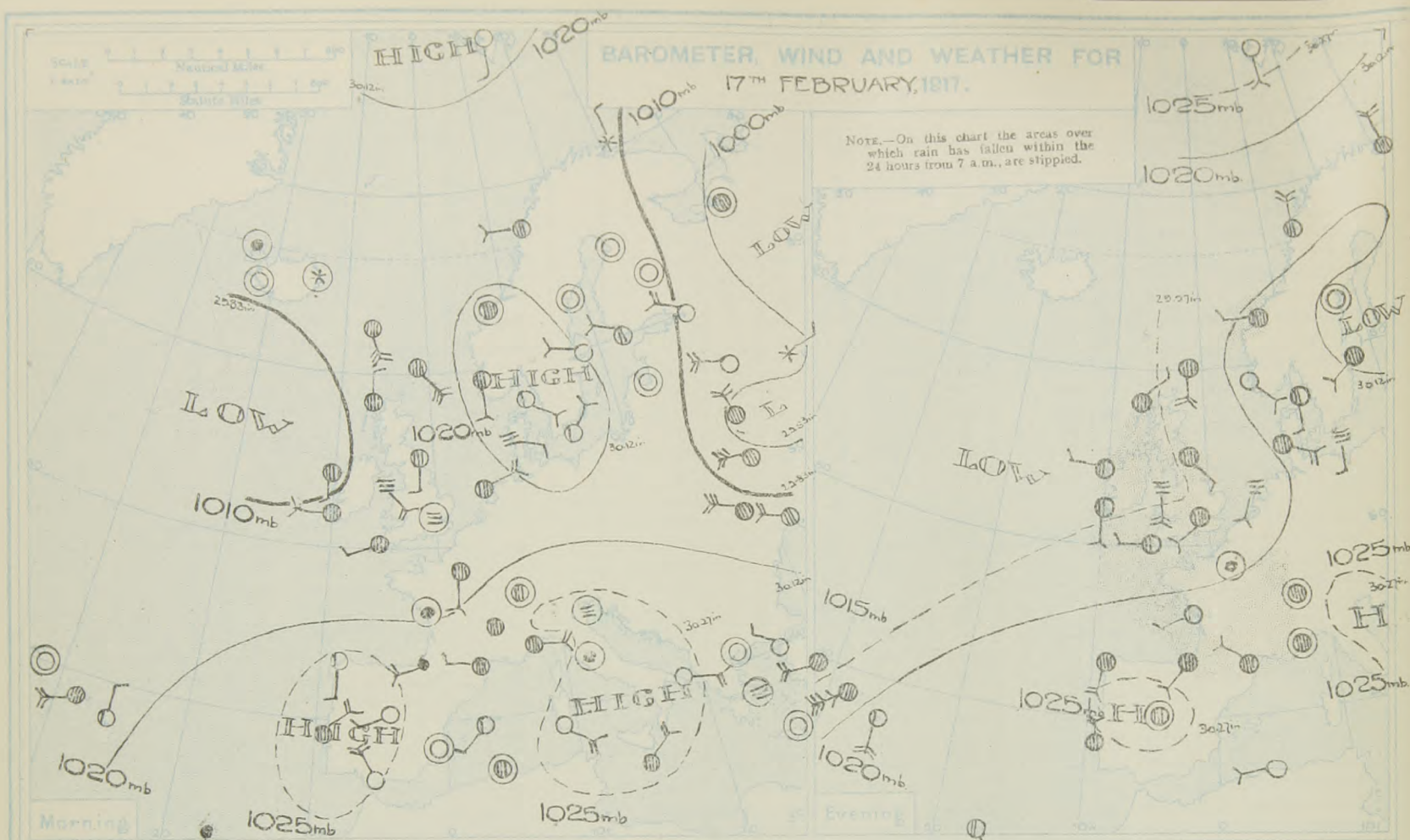
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18th February

‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

NO  
WARNINGS ISSUED

Western Channel and Bay

Calms or light breezes; mainly between  
South-West and South-East; dul, damp and  
misty, with occasional drizzle Much sea  
fog. Moderate temperature

Moderate or light winds between South and  
West; moderate sea; cloudy

FURTHER OUTLOOK.



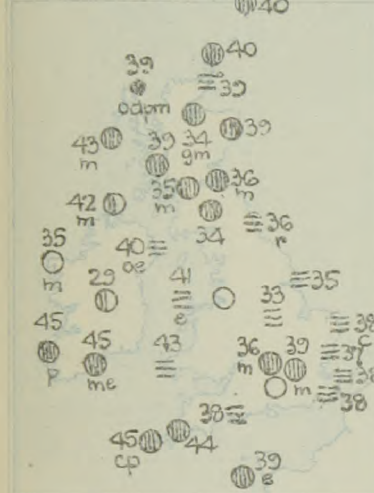
# SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 18<sup>TH</sup>

FEBRUARY, 1917.

## GENERAL INFERENCE.

Pressure changes are slight and suggest no modification of the present conditions.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE



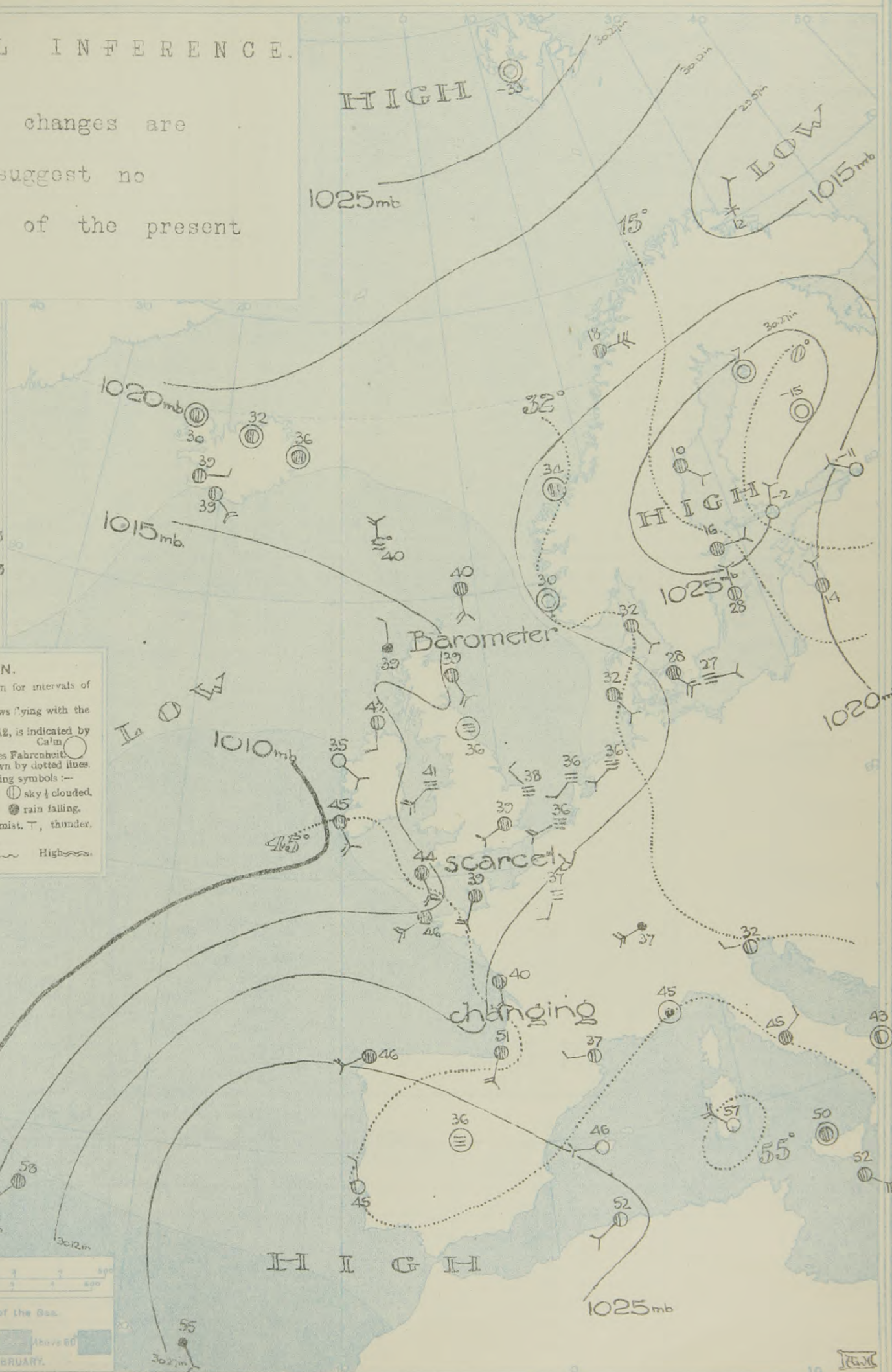
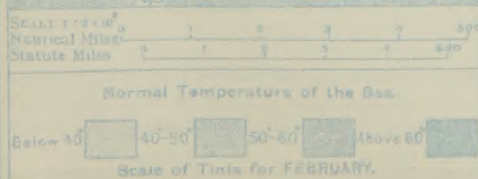
### EXPLANATION.

- 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





## REPORTS FOR YESTERDAY.

STATIONS.		PREVIOUS EVENING.					MORNING.						PAST 24 HOURS.			MORNING								
		Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.				
				Force 0-12.			Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours.	Direc.	Force 0-12.		Weather.	Max.			Min.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.	Weather.	
		° F.					° F.						° F.											
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	997.3	-8	DE	9	0	999.0	+3	-11	-7	—	0	0	—	° F	° F	Isafjord ...	1016.8	34	-2	—	0	r	
	Gorki ...	996.8	18	—	0	0	997.3	+1	7	-5	N	5	0	P	*	-15	Reykjavik ...	1012.4	37	0	E	3	0	
	Veliki Luki ...	1000.3	10	—	0	0	1011.0	*	1	-4	WNW	4	b	6	*	1	Vestmanna ...	1010.9	39	+2	E	6	C	
	Hango ...	1012.6	10	NNE	2	C	1013.6	-1	18	-10	WNW	2	b	—	*	3	Seydisfjord ...	1018.0	32	+2	—	0	S	
	Riga ...	1009.3	23	N	4	0	1011.3	+1	9	-32	—	0	b	—	*	9	Thorshavn ...	1016.8	41	+4	SSE	5	0	
	Petrograd ...	1002.0	5	NW	4	C	1009.5	+3	-8	—	NW	3	b	—	*	-8								
	Moscow ...	1004.4	-6	SE	1	b	1004.7	?	-8	-6	NNW	5	b	?	9	-8								
	Kiev ...	1002.7	30	WNW	5	b	1008.6	+5	23	0	WNW	6	C	3	*	23								
	Kharkov ...	1007.4	16	S	2	0	1000.0	+2	21	+23	SW	1	0	0	*	-2								
	Kishinev ...	1011.9	30	W	3	C	1015.8	+5	30	+7	NW	5	0	0	*	21								
MEDITERRANEAN.	Elisabetgrad ...	1004.6	28	WNW	6	S	1008.6	+5	25	+6	WNW	4	C	—	*	19								
	Nicolaiev ...	1009.9	27	SW	3	0	1012.3	*	30	+14	WNW	3	0	—	*	9								
	Odessa ...	1011.7	27	WSW	4	b	1015.1	+4	28	+9	NW	4	0	—	*	9								
	Tarkhankout ...	1013.0	37	SW	9	b	1014.1	*	36	—	NW	9	0	—	*	36								
	Soukhom ...	1018.4	26	NNE	1	0	1015.0	-2	32	+5	NNE	2	0	2	*	27								
	Venice ...	1025.9	27	—	0	f	1026.1	*	27	-1	—	0	f	—	37	27								
	Pesaro ...	1026.3	32	W	1	b	1026.5	*	30	+3	—	0	f	—	39	27								
	Rome ...	1026.5	46	W	1	b	1026.5	*	43	+9	N	1	r	4	52	34								
	Viesti ...	1026.5	45	WSW	1	b	1026.5	*	45	+2	S	1	C	—	50	42								
	Brindisi ...	1028.1	45	SE	1	b	1026.9	*	41	-7	SE	3	b	—	48	41								
SWEDEN.	Cagliari ...	1021.8	54	SE	4	0	1025.8	*	54	0	SE	3	b	—	63	45								
	Palermo ...	1021.8	54	SE	4	0	1027.0	*	46	-4	—	0	0	—	63	43								
	Tripoli ...	1023.1	55	W	4	b	1022.9	*	64	0	E	1	0	24	68	59								
	Algiers ...	1023.1	55	W	4	b	1024.3	+2	50	-4	—	0	C	—	64	50								
	Hernösand ...	1015.1	14	NNW	4	b	1018.1	*	10	-18	—	0	b	*	*	*								
	Stockholm ...	1016.0	25	N	2	0	1020.2	*	19	-11	WNW	2	b	*	*	*								
	Wisby ...	1016.1	32	N	8	b	1020.6	*	28	-8	NW	2	b	*	*	*								

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	—
Limassol ...	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine			
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.				
	Mm.	Mm.	F.	F.			Hr.		Mm.	Mm.	° F.	° F.			Hr.			
Scotland.	Oban ... ..	—	—	44	27	0	0	0.0	England, E.	Lowestoft ... ..	—	—	43	34	op	of.	0.0	
	Banff ... ..	—	—	40	36	oc.	c.opd.	0.1		Felixstowe ... ..	1	1	43	34	op	of.	0.0	
	Montrose ... ..									Walton-on-Naze ... ..								
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	—	—	49	31	f.b	b.bc.co	1.3	
	St. Andrews ... ..																	
Eng. N.E.	Harrogate ... ..	1	2	34	30	0	mr	0.0	England, S.E.	Margate ... ..	1	0	50	34	0	0	0.5	
	Skegness ... ..	*	*	39	34	fo	of	0.0		Ramsgate ... ..								
Eng. N.W.	Morecambe ... ..									Hastings ... ..	1	1	42	39	orf.	f.m	0.0	
	Southport ... ..									Eastbourne ... ..	2	Trace	44	36	f.	f.	0.0	
Midlands.	Leamington Spa ... ..									Seaford ... ..	*	*	44	38	f.	f.	0.0	
	Malvern ... ..									Brighton ... ..	6	Trace	42	34	om	om	0.0	
	Ross-on-Wye ... ..									Worthing ... ..	—	—	44	39	cf.	cf.	0.0	
										Littlehampton ... ..	8	—	43	37	o.	owe	0.0	
										Bognor ... ..	*	*	44	36	fe.	fe.	0.0	
										Bournemouth ... ..	8	—	46	35	f.	f.	0.0	
Wales.	Rhyl ... ..	*	*							England, S.W.	Weymouth... ..	*	*					
	Colwyn Bay... ..	*	*								Torquay ... ..	2	—	48	40	oc.	c	1.3
	Llandudno ... ..	*	*	48	39	c.	c.	0.6			Paignton ... ..	*	*	50	39	c.	c.	0.0
	Aberystwyth ... ..	*	*	48	38	r.oc	c.co	1.5	Penzance ... ..		1	—	52	43	br	bc. b	7.0	
	Tenby ... ..								Newquay ... ..									
									Bude ... ..									
									Ilfracombe ... ..									
									Weston-s-Mare ... ..									

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> February 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.6	12.7	5.8
Greenwich ...	7.4	12.7	5.10
Wick ...	7.11	12.14	5.17
Valencia ...	7.41	12.26	5.11
	7.38	12.26	5.14
	7.53	12.55	5.57
	7.51	12.55	5.59

## PILOT BALLOON ASCENTS for the PAST WEEK.

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

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

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

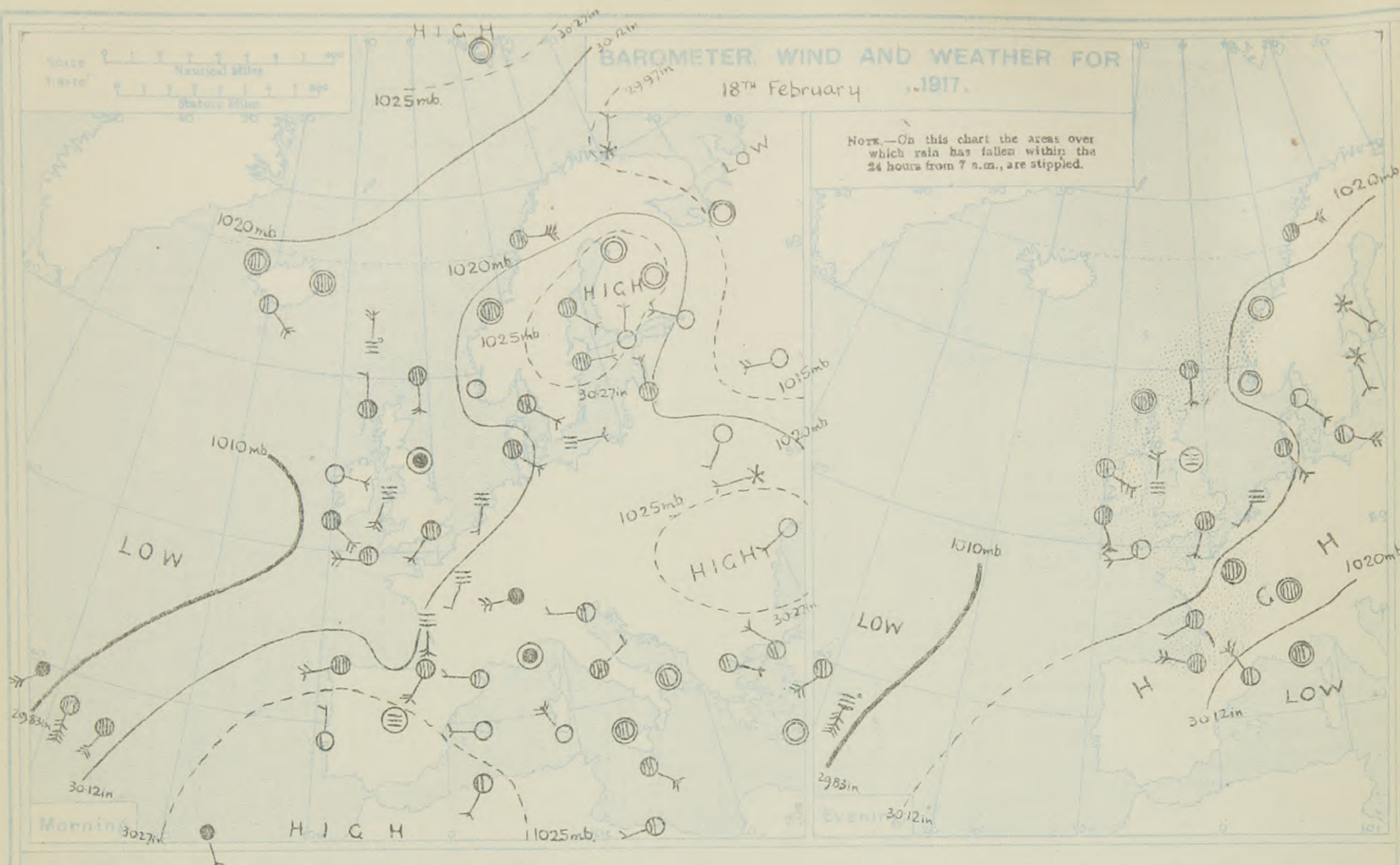
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Monday  
19<sup>th</sup> February

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
																						Hours.
BRITISH ISLANDS.																						
Lerwick ...	1015.8	41	S	2	om	1019.5	0	40	0	S	3	-	0	2	1	41	40	om	om	omd	*	
Deerness (Orkney) ...	1017.9	40	SSE	4	m	1018.6	*	41	+1	SE	4	-	2	3	-	41	40	o	om	o	0.0	
Stornoway ...	1018.0	42	-	0	2	1017.6	-1	37	-2	-	0	-	om	0	-	43	37	2	2	o	0.0	
Castlebary (Barrisd.) ...	1018.0	43	E	3	om	1017.6	0	42	-1	ESE	5	-	om	5	-	44	42	om	om	a.be.om	0.0	
Glasgow ...	1018.8	37	NE	1	om	1019.5	0	35	0	E	1	-	me	*	0.1	38	34	om	om	md.pnt	0.0	
Eskdalemuir ...	1018.8	35	-	0	ome	1020.0	0	34	0	-	0	-	ofe	*	0.2	38	33	odm.f	f.sme.	ome	0.0	
Malin Head ...	1018.1	42	ESE	1	bcm	1014.7	-3	36	-6	SE	3	S	bcm	3	0.3	45	33	c.mf	bcm	bcm	1.5	
Blacksod Point ...	1014.0	39	SE	3	cg	1010.1	-3	40	+5	SE	4	-	omf	4	1	44	34	be	c.g	bcm	*	
Valencia ...	1013.9	48	SSE	3	opdm	1009.9	-2	49	+4	SSE	5	-	o	*	8	51	45	c	c.opd.	c.or	4.2	
Roche's Point ...	1016.3	44	NE	1	o	1014.5	*	44	-1	SE	4	-	r	4	2	46	41	fd.	fd.co	b.od	*	
Birr Castle ...	1013.2	40	SSE	1	c	1013.8	*	42	+13	SE	2	-	o	*	-	44	29	fz.zc	o.	o	0.3	
Donaghadee ...	1017.3	42	SE	1	cf	1017.9	0	38	-2	S	2	-	ogm	1	Trace	43	35	of	c.f	of ogm	*	
Liverpool (Bidston) ...	1018.8	30	SSE	1	f	1019.4	0	30	+9	ESE	3	-	m	1	-	44	28	bcm	f.	f.ox	4.0	
Holyhead ...	1017.9	39	N	3	fe	1018.5	0	34	-7	SE	2	-	br	0	Trace	43	31	of.cf	cf.fe	bfx	0.3	
Pembroke (St. Ann's) ...	1018.0	40	ESE	6	om	1018.7	0	40	-3	SE	3	-	of	3	0.2	42	36	f	f.cf	oz.bf	0.0	
Scilly (St. Mary's) ...	1017.8	47	W	2	b	1018.1	-1	46	+1	S	3	S	ce	4	1	51	45	be	b	b.be.ce	6.9	
Falmouth ...	1018.1	46	W	1	bz	1018.7	0	42	-2	W	1	-	ome	*	1	52	37	be	be.cpc	bcm.sme	3.2	
Jersey (St. Aubin) ...	1018.4	41	SE	2	ome	1021.5	*	37	-2	-	0	-	fe	1	1	41	35	oe.omd	omd.pe	om.ef	0.0	
Portland Bill ...	1017.2	41	SSE	3	om	1019.6	+2	38	0	SW	2	-	f	4	-	41	38	f.o	om	fc	*	
Dungeness ...	1019.3	38	SW	1	f	1021.1	0	37	-1	SW	3	-	or	2	2	42	37	f	f	f.op.or	*	
Dover ...	1021.4	38	SSW	1	m	1021.7	0	37	-1	SSE	1	-	f	1	0.2	40	34	f.om	om.	f	0.0	
Wick ...	1017.3	40	SSE	2	m	1018.4	0	40	+1	SSE	1	-	m	2	0.2	42	29	ompg	omg	omg	*	
Nairn ...	1017.3	38	-	0	c	1018.1	*	33	-1	-	0	-	omg	0	0.2	41	32	omg	om	omg	0.2	
Aberdeen ...	1018.9	39	SSE	2	omd	1019.6	0	39	0	S	2	-	o	2	0.2	40	39	om	omd.	omd.	0.0	
Leith ...	1019.2	38	-	0	m	1019.3	0	35	-1	E	1	-	f	2	-	39	35	om.co	f	f	*	
Tynemouth ...	1017.9	40	-	0	f	1019.8	+1	40	+4	SSE	1	-	fe	3	-	40	36	f	f	fe	*	
Spurn Head ...	1018.6	40	-	0	f	1020.9	+1	29	+4	N	1	-	f	3	0.4	42	33	om	omf	f	1.8	
Yarmouth ...	1018.2	39	WNW	2	f	1020.6	+2	30	-8	NW	1	-	fo	1	-	41	29	of.om	omf.	f	1.1	
Clacton-on-Sea ...	1019.2	40	WNW	1	m	1021.3	0	36	-1	ESE	1	-	f	0	-	42	35	ogm	ogm	ofm.fe	0.0	
Nottingham ...	1019.1	34	WSW	2	f	1020.9	*	29	-4	E	1	-	fm	*	0.2	35	29	fe	se	fe	0.0	
Benson (Oxop.) ...	1019.0	39	E	1	f	1020.4	0	36	0	-	0	-	o	*	3	44	36	o	o	ro	*	
St. Farnborough ...	1018.3	41	SE	2	o	1019.9	0	36	-1	SE	2	-	om	*	1	44	36	f.om	om.	om.orn	0.0	
London (Kew Obsy.) ...	1019.4	41	SSW	2	om	1020.8	0	38	-1	-	0	-	om	*	2	42	38	om.ofe.om	om.bm.om	omr	0.7	
NORTHERN EUROPE.																						
Spitsbergen ...												*		*	*							
Vardö ...												*		*	*							
Bodö ...	1012.3	23	E	4	o	1019.1	+4	12	-6	E	2	-	b	2	?	23	10					
Christiansund ...	1021.2	34	-	0	b	1019.8	0	37	+3	-	0	-	c	3	3	37	30					
Skudesnaes ...	1022.1	32	-	0	b	1021.1	0	32	+2	-	0	-	o	1	4	37	28					
Færder (X'ania Fjord) ...	1023.1	25	-	0	be	1021.9	0	21	0	N	1	-	f	0	-	25	21					
The Scaw (Skagen) ...	1022.7	34	SE	2	b	1019.9	0	32	0	SSW	2	SE	c	2	-	34	27					
Blaavands Huk ...	1019.0	32	SE	3	o	1019.1	+2	30	-2	E	1	-	o	1	Trace	34	28					
Copenhagen ...	1022.0	30	SE	3	b	1021.1	-1	30	+2	SSE	3	-	m	*	-	32	27					
Bornholm ...	1022.7	30	ESE	4	be	1021.2	-2	27	0	SE	3	-	c	1	-	32	25					
FRANCE, &c.																						
The Helder ...	1018.1	36	SW	1	f	1020.4	+2	36	0	W	1	-	f.	1	Trace	37	34					
C. Gris Nez ...	1019.3	37	SSW	2	f	1020.3	0	37	+1	SSW	2	*	f	2	-	39	36					
La Hève ...	1018.6	32	SSE	3	o	1021.6	*	39	+1	SSW	2	*	f	1	-	46	37					
Brest (St. Mathieu) ...	1019.4	46	W	2	b	1019.8	-1	44	-2	ESE	3	*	o	5	-	50	43					
Rochefort (Ile d'Aix) ...	1020.4	41	SW	1	c	1023.4	+1	36	-4	SE	2	*	m	*	2	48	36					
Biarritz ...	1022.0	50	WNW	4	o	1023.8	0	46	-5	WSW	3	*	r	4	3	54	45					
Paris ...	1021.1	39	SW	1	o	1022.7	+1	36	+1	SW	1	-	o	*	1	41	36					
Belfort ...	1021.5	39	-	0	o	1023.4	*	33	-4	-	0	*	f	*	1	45	32					
Lyons ...	1020.4	41	WSW	1	be	1022.7	*	37	-	NW	1	*	o	*	-	50	35					
Nice ...	1017.3	45	-	0	c	1018.8	+1	43	-2	E	4	*	b	*	-	54	36					
Perpignan ...	1019.7	50	NW	3	c	1020.4	+3	46	+9	NW	3	NW	be	*	-	55	45					
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SOUTHERN STATIONS.																						
Corunna ...	1025.0	56	SW	2	o	1025.1	0	52	+6	SSW	3	-	c	2	?	55	50					
Madrid ...														*	*							
Lisbon ...	1024.1	55	WNW	2	c	1026.3	+1	48	+3	-	0	-	o	6	-	57	48					
Azores (Horta) ...	1009.3	*	S	9	m							*		*	*							
Madeira ...																						
Gibraltar ...	1025.0	57	NW	5	b	1023.3	*	53		NW	5	*	b	4	-	67	51					
Malta ...	*	*	*	*	*	1016.0	-1	54	+2	WSW	2	-	o	1	-	61	50					
Limassol ...	*	*	*	*	*	1020.7	-1	54	0	-	0	-	c	2	-	64	43					
Alexandria ...	1019.1	55	NNE	4	b	1018.3	+1	50	-5	N	2	-	b	0	-	64	45					
Cairo (Helwan) ...	1021.0	57	NNE	2	c	1019.4	-1	55	+5	-	0	-	be	*	-	66	52					
24 HOURS ENDED 9 h. TO-DAY.																						
LONDON OBSERVATIONS.		Humidity.		Sun- shine for Yester- day.	TEMPERATURE.				Rain- fall.	WEATHER.			SOUTH KENSINGTON.									
		15 h. Yester- day.	9 h. To- day.		Max.	Min.	Min. on Grass.			Morn- ing.	After- noon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.									
GREENWICH (Royal Observatory)		%	%	Hours.	°F.	°F.	°F.	mm.				Total.										
CITY (Bunhill Row) ...		87	97	0.0	43	35	30	*	be	c.ce	app.	Average Rate.										
WESTMINSTER (St. James's Park)		88	98		44	38	32	1	om	om	be.r.c	Max. Rate.										
CAMDEN SQ. (British Rainfall)			100	0.0	42	?	30	1	-	-	-	Joules.										
HAMPSTEAD (Reservoir) ...		*	98	0.0	39	36	30	2	ofe	of.me	ofr	Milliwatts.										
S. KENSINGTON (Museum Grounds)		*	92	0.0	42	38	37	1	om	om	omae	Milliwatts.										
RICHMOND PARK ...		*	*		*	*	*	*	*	*	*	215										
												5.9										
												17										
												Temperatures at Greenwich and Cam- den Square are from Glaisher screens.										





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 Coast.	South Coast.
North Coast.	North Coast.

No Warnings

Issued

Western Channel and Bay

0 } Light South-Easterly winds, freshening somewhat later;  
1 } dull, misty, some rain; moderate temperature.

2 } Light Southerly airs, perhaps freshening later; misty,  
3 }  
4 } occasional drizzle, fog on coasts; moderate temperature.  
5 }

6 } Wind between South-East and South-West, freshening;  
7 } dull, some rain; milder.  
8 }

9 } Moderate to fresh or strong Southerly winds; dull,  
10 } some rain; mild.

11 } Freshening South-Westerly winds; moderate sea;  
dull, some rain

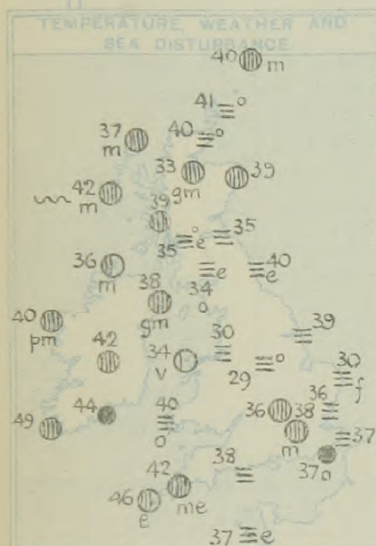
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 19<sup>TH</sup> FEBRUARY, 1917.

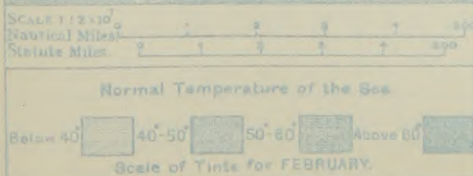
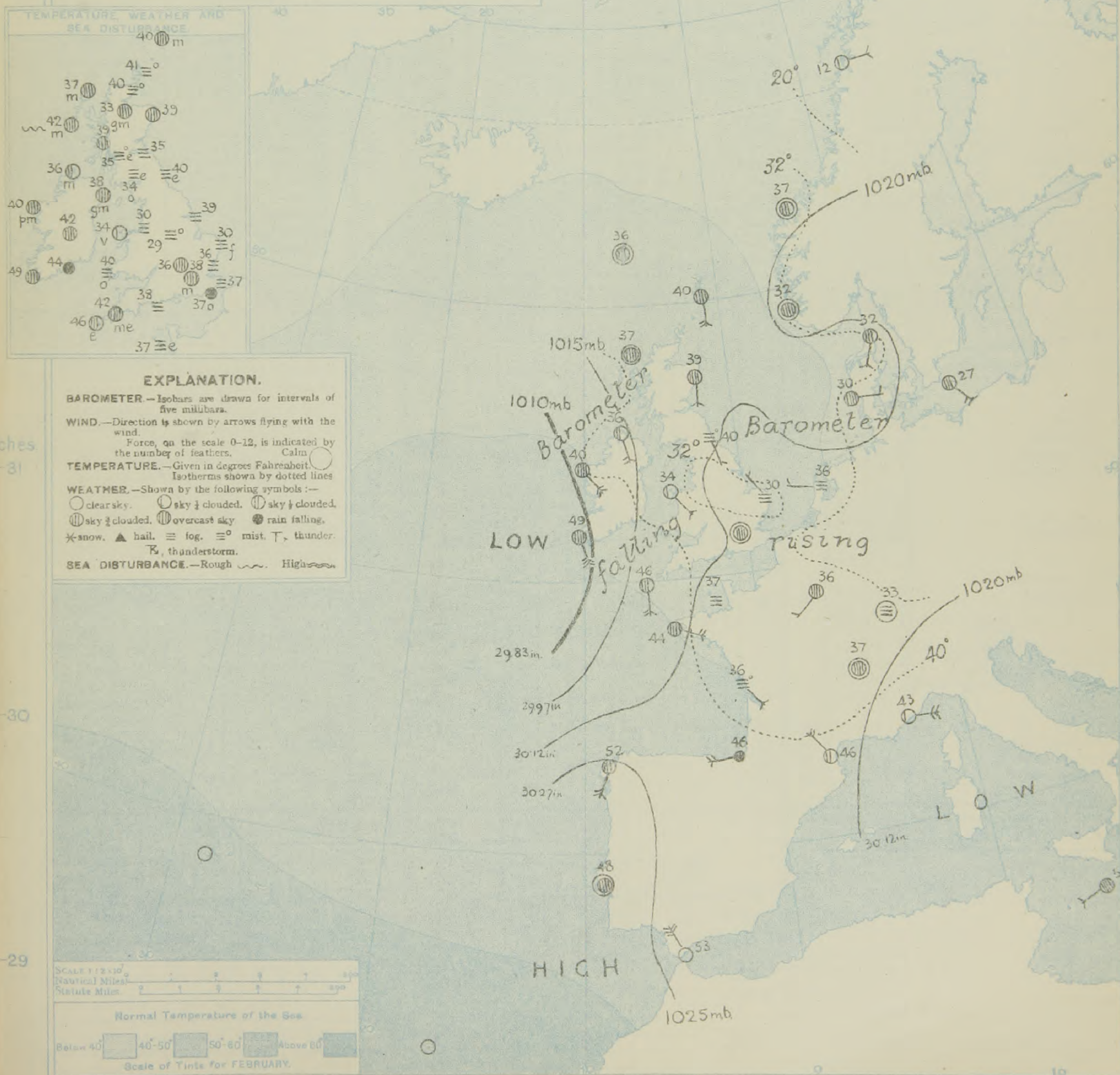
## GENERAL INFERENCE.

The depression in the west will spread slowly eastward, and affect the western districts. It is uncertain whether it will influence the North Sea within the ensuing twenty-four 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 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.				PAST 24 HOURS.				MORNING			
	Barom.	Temp.	Wind.	Weather.	Barom.	Temp.	Wind.	Weather.	Rain-fall.	Temp.	Temp.	Temp.	Barom.	Temp.	Wind.	Weather.
	Millibars at M.S.L.	° F.	Dir.	Force 0-12.	Millibars at M.S.L.	° F.	Dir.	Force 0-12.	Millibars at M.S.L.	° F.	° F.	° F.	Millibars at M.S.L.	° F.	Dir.	Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1009.1	-13	-	0	b	1014.4	+4	-19	-8	-	0	0	-16	-	-
	Gorki ...	1014.6	+9	NNW	3	0	1015.9	0	-9	-16	SW	1	0	-9	-	-
	Veliki Luki ...	1017.2	0	W	3	S	1014.9	+5	+4	WSW	3	S	1	-7	-	-
	Hangö ...	1018.0	12	-	0	S	1025.0	+8	-2	-20	NNE	2	0	-4	-	-
	Riga ...	1020.8	16	-	0	0	1020.0	+3	+14	+5	N	2	0	+9	-	-
	Petrograd ...	1013.3	+1	WSW	2	S	1016.9	+6	-11	-3	NW	2	0	-11	-	-
	Moscow ...	1008.6	-4	NW	2	bc	1013.1	+2	-11	-3	WNW	2	0	-13	-	-
	Kiev ...	1022.3	+12	WNW	6	b	1023.3	+1	+14	-9	W	2	0	+12	-	-
	Kharkov ...	1014.4	3	NW	4	b	1021.1	+7	+1	-20	NW	3	0	1	-	-
	Kishinev ...	1026.6	19	-	0	b	1026.0	-3	5	-25	-	0	bc	-	-	-
	Elisabetgrad ...	1024.2	5	NW	3	b	1025.5	+1	3	-22	WNW	3	0	1	-	-
	Nicolaiev ...	1026.3	12	NW	2	b	1027.4	-	5	-25	-	0	0	3	-	-
MEDITERRANEAN.	Odessa ...	1026.7	19	NNE	3	b	1027.9	-2	14	-14	WSW	2	0	12	-	-
	Tarkhankout ...	1025.6	28	NNW	7	bc	1027.9	*	18	-18	E	3	0	14	-	-
	Soukhoum ...															
	Venice ...	1025.3	36	-	0	0	1023.0	*	32	+5	-	0	bc	-	43	29
	Pesaro ...	1026.1	36	-	0	0	1024.2	*	36	+6	-	0	0	7	47	30
	Rome ...	1024.1	48	-	0	0	1022.1	*	45	+2	NE	1	0	13	50	43
SWEDEN.	Viesti ...	1025.5	45	SSE	1	b	1022.7	*	46	+1	-	0	0	-	50	41
	Brindisi ...	1024.3	46	WSW	1	b	1022.5	*	43	+2	-	0	bc	-	54	41
	Cagliari ...	1023.1	57	NE	4	r	1021.8	*	57	+3	NNW	4	0	-	63	48
	Palermo ...	1025.0	54	-	0	0	1022.6	*	50	+4	-	0	0	-	59	43
	Tripoli ...						1024.1	*	64	0	WSW	1	0	6	72	61
	Algiers ...	1025.0	55	WSW	2	b	1025.1	+1	52	+2	SW	2	bc	-	66	50
Hernösand ...	1018.9	14	-	0	0	b	1028.7	*	10	0	SE	2	0	*	*	*
	Stockholm ...	1019.8	27	SW	2	0	1026.1	*	16	-3	E	2	0	*	*	*
	Wisby ...	1021.1	32	NW	4	b	1023.4	*	28	0	N	2	bc	*	*	*

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-9h.	Day. 9h-12h.	Max.	Min.	Forenoon.	Afternoon.			
	Mm.	Mm.	° F.	° F.					Mm.	Mm.	° F.	° F.					
Scotland.	Oban ... ..	-	-	42	38	o	o	0.0	England, E.	Lowestoft ... ..	-	-	43	36	of	bc of	0.1
	Banff ... ..	Trace	-	40	36	o	o	0.0		Felixstowe ... ..	-	-	43	36	of	bc of	0.1
	Montrose ... ..									Walton-on-Naze ... ..							
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-	46	36	f. oz	oz	0.2
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	2	Trace	41	33	o. c	c	0.5	England, S.E.	Margate ... ..							
	Skegness ... ..	Trace	-	38	34	of. c	ofe	0.0		Ramsgate ... ..							
								Hastings ... ..		1	-	41	36	f m	f	0.0	
								Eastbourne ... ..		Trace	-	41	37	f ad	od	0.0	
								Seaford ... ..		*	*						
								Brighton ... ..									
								Worthing ... ..		1	-	41	36	f	f	0.0	
Eng. N.W.	Morecambe ... ..								England, S.W.	Littlehampton ... ..	1	Trace	40	35	f	f	0.0
	Southport ... ..	-	-	41	35	o. c. b	c. om	2.0		Bognor ... ..	*	*					
								Bournemouth ... ..		1	Trace	39	34	f	f	0.0	
Midlands.	Leamington Spa ... ..								England, S.W.	Weymouth ... ..	*	*					
	Malvern ... ..									Torquay ... ..	*	*					
	Ross-on-Wye ... ..									Paignton ... ..	*	*					
										Penzance ... ..							
Wales.	Rhyl ... ..	-	-	49	31	c. o. c	bc. om	4.6	England, S.W.	Newquay ... ..	Trace	1	48	35	d	b	4.0
	Colwyn Bay ... ..	-	-	44	32	b. bc	f	7.0		Bude ... ..							
	Llandudno ... ..	*	*	47	32	b	bm m	5.2		Ilfracombe ... ..							
	Aberystwyth ... ..	*	*	48	34	c. b	bc. c	8.5		Weston-s-Mare ... ..							
	Tenby ... ..	*	*														

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

19 <sup>th</sup> 420 <sup>th</sup> February, 1917.	Sunrise	Noon	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.4	12.7	5.10
Greenwich ...	7.2	12.7	5.12
Wick ...	7.9	12.14	5.19
Valencia ...	7.7	12.14	5.21
	7.38	12.26	5.14
	7.35	12.26	5.17
	7.51	12.55	5.59
	7.49	12.55	6.1

## NOTES ON YESTERDAY'S WEATHER.

Wind was exceedingly light. Considerable bright sunshine was experienced in Wales and south-west England, Tenby 8.5 hours, Scilly 6.9 hours. Over the country as a whole the weather was dull. There was much fog in the English Channel, Irish Sea and southern North Sea.

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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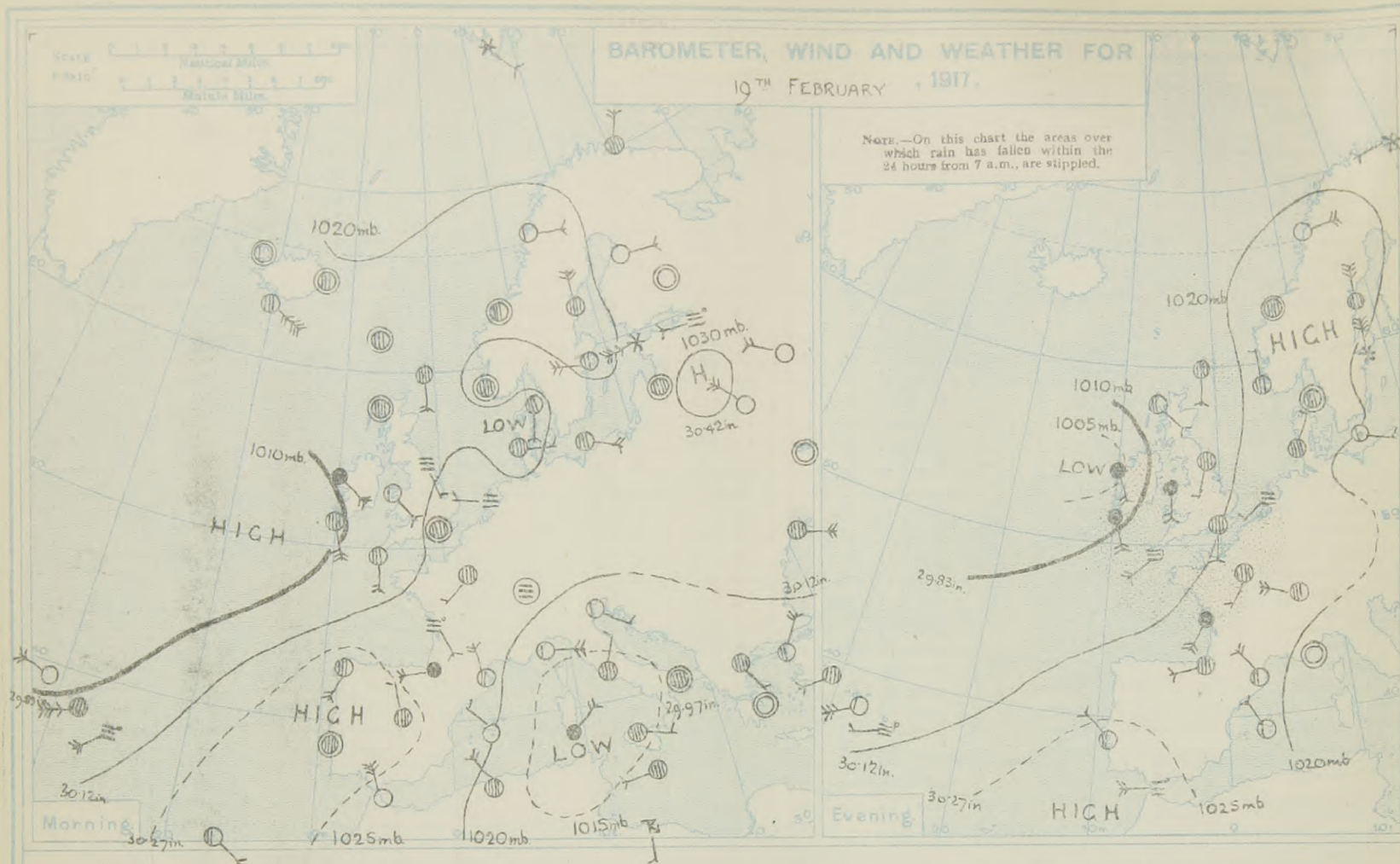


## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 51

Tuesday  
20<sup>th</sup> February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.					Sun- shine for Yester- day.				
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.							
			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.					
BRITISH ISLANDS.																									
Lerwick ...	1018.3	41	S	2	om	1015.6	-1	40	0	SSE	3	-	0	3	0.2	42	40	om	om	0	*				
Deerness (Orkney) ...	1016.2	41	SE	5	oZ	1011.5	*	40	-1	SSE	5	-	oZ	4	-	42	39	o.	o.	o.	0.6				
Stornoway ...	1013.9	43	SE	2	bcZ	1005.7	-2	42	+5	SSE	2	-	o	2	-	41	37	om. bz	b. bcZ	o.	3.0				
Castlebay (Barra Isd.) ...	1012.1	43	ESE	5	cm	1006.6	-1	42	0	SE	5	-	r	6	4	43	41	om.	om.	omr	0.6				
Glasgow ...	1016.1	35	ENE	1	om	1007.3	-3	45	+10	E	3	-	r	*	2	40	32	om.	om.	oe. mor	0.0				
Eskdalemuir ...	1017.1	34	N	1	o	1008.1	-4	35	+1	ESE	4	-	or	*	2	38	32	om.	c. sm	o. bc. or	1.4				
Malin Head ...	1008.2	40	S	5	cmq.	1001.4	-1	42	+6	S	2	-	omd	3	7	45	36	cmq.	b. my	omd	0.1				
Blackod Point ...	1004.1	48	SSE	3	omd.	1001.9	0	46	+6	SW	2	-	om	3	6	48	39	cmr	omd	of. d. c	*				
Valencia ...	1007.1	49	SSE	4	r	1002.9	0	49	0	SW	3	-	o	4	31	52	49	or	omd. r	or. o	0.0				
Roche's Point ...	1010.0	45	SSE	2	rf	1004.0	*	48	+4	SW	2	-	o	4	24	48	44	rd. f	f. d.	f. om	*				
Birr Castle ...	1007.7	44	SE	2	r	1001.9	*	46	+4	S	1	-	r	*	24	48	41	or. o	or.	or.	0.0				
Donaghadee ...	1012.2	41	SE	4	agfp	1002.4	-3	43	+5	SE	4	-	ofr	4	12	43	38	agf.	agfp.	of. gr.	*				
Liverpool (Bidston) ...	1016.0	39	ESE	3	m.	1006.1	-6	40	+10	ESE	4	-	r	3	8	41	30	of	om.	or	0.0				
Holyhead ...	1013.5	44	S	3	omr	1002.3	-4	45	+11	S	4	-	omr	3	13	45	33	cm.	c. om	omr	1.0				
Pembroke (St. Ann's) ...	1013.3	42	SE	4	r	1004.0	-9	43	+3	SSW	3	-	fr	3	21	44	38	fr.	f. r.	fr	0.0				
Scilly (St. Mary's) ...	1014.8	49	SW	3	fe	1007.5	-2	49	+3	W	4	SW	o	4	13	49	45	fe	omr. od	fe. omr	0.0				
Falmouth ...	1014.8	48	SSW	3	adm	1007.3	-1	48	+6	SW	3	-	odm	*	16	49	41	meo. od	omr. od	dm. rad	0.0				
Jersey (St. Aubin) ...	1018.9	41	SE	3	oem	1010.9	*	45	+8	S	3	-	mr	3	5	45	36	ofe	f. d. om	oe. omr	0.0				
Portland Bill ...	1018.0	40	SSE	1	or	1009.1	-4	42	+4	SSW	4	-	fr	4	7	43	37	f.	fo	orf	*				
Dungeness ...	1020.4	38	SW	3	f.	1013.3	-3	38	+1	SE	4	-	op	4	1	42	36	f.	f.	f. bc. op	*				
Dover ...	1020.3	38	S	2	f	1013.6	?	37	0	SSE	4	SE	r	3	0.4	39	35	f. c	cf.	for	0.0				
Wick ...	1015.7	41	SSE	3	m	1010.8	-3	41	+1	SSE	6	-	m	5	0.1	42	39	oem	c. omg	omg. p	*				
Nairn ...	1015.2	36	-	0	cm	1007.9	*	36	+3	-	0	-	cm	0	-	44	30	o. bc. om	c. bc.	c. bc.	2.0				
Aberdeen ...	1017.8	40	SSE	3	o	1011.8	-2	40	+1	SE	5	-	o	4	-	41	39	om	om	om.	0.0				
Leith ...	1015.9	37	SE	1	b	1008.1	-3	38	+2	E	1	-	r	3	1	43	33	om. co	c. bc. mb	b. omr	*				
Tynemouth ...	1018.4	37	SSW	1	o	1010.1	-5	40	0	SE	5	-	omgr	4	1	40	36	om	om	omgr	*				
Spurn Head ...	1019.1	34	S	3	f.	1011.8	-3	37	-2	SSE	6	-	or	5	2	39	33	f.	f.	om	0.0				
Yarmouth ...	1020.4	34	ESE	1	o	1014.3	-2	37	+7	SSE	2	-	f	2	1	45	29	f.	f.	f. d.	0.0				
Clacton-on-Sea ...	1020.9	37	SE	1	m	1013.7	-3	37	+1	SE	3	-	o	3	1	38	25	fe. om	om. e	omg. p	0.0				
Nottingham ...	1018.8	36	E	1	o	1009.7	*	38	+9	SE	2	-	r	*	4	39	29	fmo	o.	o.	0.0				
Benson (Oxon.) ...	1018.9	42	S	1	o	1008.9	-5	39	+3	SE	4	-	r	*	4	43	36	o.	o.	or.	*				
Sth Farnborough ...	1018.8	41	SE	3	o	1010.3	-4	39	+3	SE	3	-	or	*	3	44	36	d. form d	odm	od. om	0.0				
London (Kew Obs.) ...	1019.7	42	S	2	om	1014.2	-5	40	+2	SE	3	-	omr	*	1	44	38	om	om	omd	0.0				
NORTHERN EUROPE.																									
Spitsbergen ...	1016.3	16	W	2	S	1007.8	-8	12	-4	SW	3	-	S	*	*	16	9	UPPER AIR. South Farnborough. Pilot Balloon Ascent at .....							
Vardö ...	1023.4	9	E	4	b	1017.2	-5	14	+2	E	2	-	bc	2	-	14	5								
Bodö ...	1021.1	36	-	0	o	1019.5	-1	32	-5	-	0	-	b	2	Trace	37	34								
Christiansund ...	1019.9	32	N	1	c	1019.3	0	34	+2	SE	6	-	b	2	-	36	28								
Skudesnaes ...	1021.2	25	NE	1	f	1024.4	+1	21	0	SE	4	-	o	0	-	25	21								
Færder (Kjølshavn) ...	1021.0	32	-	0	C	1022.9	+2	28	-4	ESE	3	-	o	3	-	34	27								
The Scaw (Skagen) ...	1020.6	32	NE	1	o	1020.3	0	30	0	ESE	2	-	o	1	-	34	28								
Blaavands Huk ...	1020.4	28	SSE	1	b	1021.9	+2	27	-3	SE	2	-	bc	*	-	32	25								
Copenhagen ...	1020.0	28	ESE	1	b	1021.3	+2	27	0	ENE	4	-	o	1	-	32	25								
Bornholm ...	1020.0	28	ESE	1	b	1021.3	+2	27	0	ENE	4	-	o	1	-	32	25								
FRANCE, &c.																									
The Helder ...	1020.9	34	SW	1	f	1017.7	-3	32	-4	SE	1	-	f	0	Trace	36	32	Note. Stornoway. Aurora observed last night.							
C. Gris Nez ...	1020.3	36	SE	2	f	1013.3	-4	38	+1	SSW	4	-	f	3	2	39	34								
La Hève ...	1019.3	43	S	4	r	1010.9	*	43	+4	S	3	-	r	2	1	48	39								
Brest (St. Mathieu) ...	1022.4	46	SSW	4	r	1017.3	-1	48	+12	SW	4	-	o	*	6	60	44								
Rochefort (Ile d'Alx) ...	1024.3	50	WSW	2	o	1019.9	-1	52	+6	SSE	2	-	o	2	-	52	46								
Biarritz ...	1020.0	41	SSW	2	o	1016.6	-4	37	+1	SSE	2	-	r	*	1	46	36								
Paris ...	1023.1	35	WNW	4	c	1023.1	*	32	-1	-	0	-	c	*	-	44	32								
Belfort ...	1023.7	39	ENE	1	b	1023.0	*	30	-7	-	0	-	c	*	-	49	28								
Lyons ...	1016.3	47	-	0	b	1017.1	+1	45	+2	-	0	-	b	2	-	55	37								
Nice ...	1021.5	50	NW	3	bc	1020.7	-2	46	0	NW	1	N	bc	*	-	55	43								
Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	Note. Stornoway. Aurora observed last night.							
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
SOUTHERN STATIONS.																									
Corunna ...	1025.9	53	NW	2	bc	1025.0	0	52	+4	NW	1	-	o	5	-	59	48								
Madrid ...	1018.6	*	WSW	5	b	1023.7	*	47	-6	NE	1	-	m	3	-	65	46								
Lisbon ...	*	*	*	*	*	1004.6	-3	50	-4	W	1	-	o	0	16	59	48								
Azores (Horta) ...	*	*	*	*	*	1018.0	+2	52	-2	W	2	-	b	2	-	61	41								
Madeira ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
Gibraltar ...	1024.4	56	W.	4	m	1023.7	*	47	-6	NE	1	-	m	3	-	65	46								
Malta ...	*	*	*	*	*	1004.6	-3	50	-4	W	1	-	o	0	16	59	48								
Limassol ...	*	*	*	*	*	1018.0	+2	52	-2	W	2	-	b	2	-	61	41								
Alexandria ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
Cairo (Helwan) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
LONDON OBSERVATIONS.																									
HUMIDITY.		Sun- shine for Yester- day.		24 HOURS ENDED 9 h. TO-DAY.								SOUTH KENSINGTON.													
TEMPERATURE.		WEATHER.																							
13 h. Yester-day.	9 h. To-day.	Hours.	°F.	°F.	°F.	mm.	Morning.	Afternoon.	Night.	Vertical Component of Solar Radiation per square Centimetre during Yesterday.															
GREENWICH (Royal Observatory)	%	%	Hours.	°F.	°F.	°F.	mm.	oe	oe	oe	Total.														
CITY (Bunhill Row) ...	*	%	0.0	*	*	*	*	*	*	*	Average Rate.														
WESTMINSTER (St. James's Park)	86	91	0.0	46	39	37	1	om	om	om. r	Max. Rate.														
CAMDEN SQ. (British Rainfall)	90	98	0.0	45	39	37	4	f. om	om	om. r	Joules.														
HAMPSTEAD (Reservoir)	*	98	*	42	36	30	5	of. me	of. me	om	Milliwatts.														
S. KENSINGTON (Museum Grounds)	*	94	0.0	45	39	39	4	om	om. co	om	Milliwatts.														
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*	161														
Temperatures at Greenwich and Cam- den Square are from Galesher screens.																									





**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

Moderate to fresh South-Easterly wind; dull, some rain; moderate temperature.

Moderate to fresh South-Easterly wind, veering and moderating to-night or to-morrow; rainy, improving later; misty; moderate temperature.

Moderate or fresh Southerly wind, veering and moderating to-night; rainy at first, improving later; misty; rather mild.

Fresh South-Easterly wind, veering and moderating later; rainy, improving later; misty; moderate temperature.

Moderate or light South-Westerly or Westery winds; dull, occasional rain; rather mild.

Moderate or fresh South-Westerly wind; moderate sea; cloudy, some rain.

**FURTHER OUTLOOK.**

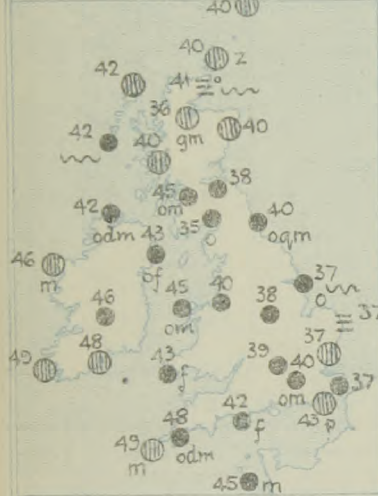


# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 20<sup>th</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

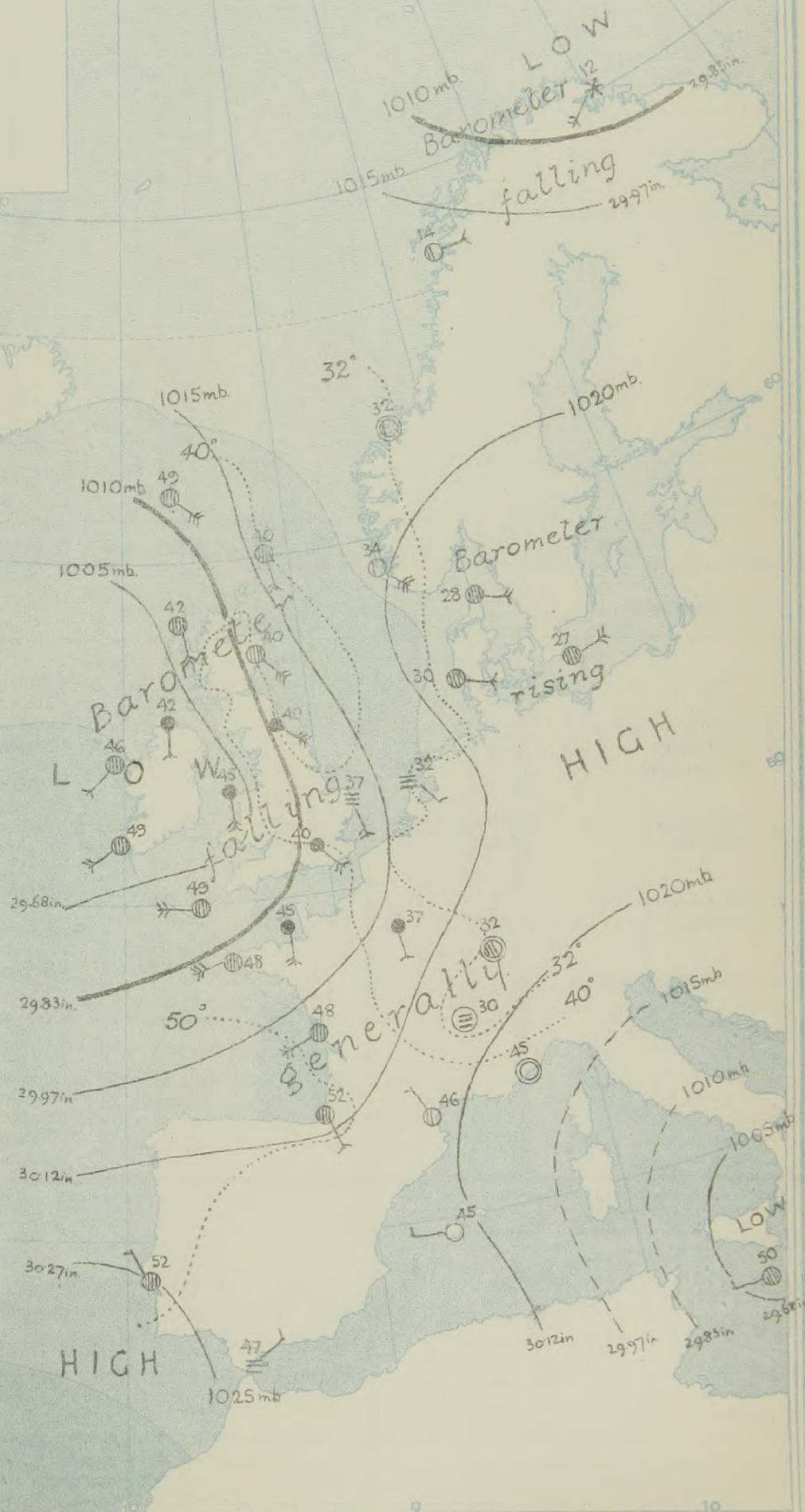
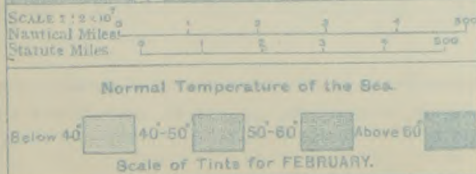
The depression will continue to spread eastward.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.				MORNING.							PAST 24 HOURS.			MORNING.								
	Barom. Milli- bars at M.S.L.	WIND.			Weather.	Barometer.		TEMP.		WIND.			Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.			WIND.		
		Temp. °F.	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.	Weather.		Max.	Min.			Dry Bulb. °F.	Change in 24 hours. °F.	Dir.	Force 0-12.	Weather.	
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1017.2	-20	0	b	1016.2	+1	-29	-10	E	2	b	-	-33	-	Isafjord ...	1017.6	30	0	-	0	b	
	Gorki ...	1022.1	-6	3	o	1027.4	+1	-19	-10	NW	4	b	-	-19	-	Reykjavik ...	1013.2	39	0	E	6	o	
	Velieki Luki ...	1027.4	-9	2	b	1030.1	*	-17	-22	SSW	1	bc	-	-19	-	Vestmanna ...	1015.3	41	+2	ESE	9	o	
	Hangö ...	10287	+3	0	bc	10207	+6	+14	+16	WSW	8	S	-	-8	-	Seydisfjord ...	1019.9	32	-4	-	0	c	
	Riga ...	1030.1	+1	0	b	1029.1	-1	-8	-22	-	0	o	-	-9	-	Thorshavn ...	1017.8	36	-4	-	0	c	
	Petrograd ...	1026.1	-9	3	b	1026.6	0	-17	-6	W	2	bc	+1	-17	-								
	Moscow ...	1015.4	-8	3	bc	1022.1	+5	-9	+2	NW	3	b	-	-13	-								
	Kiev ...	1023.8	+8	4	o	1030.1	+3	-9	-13	N	3	b	-	-9	-								
	Kharkov ...	1016.3	10	NNW	S	1024.4	+5	-14	-15	-	0	m	-	-15	-								
	Kishinev ...	1021.1	16	0	b	1025.9	+6	+8	+3	NE	2	b	-	+5	-								
MEDITERRANEAN.	Elisabetgrad ...	10207	8	2	b	1028.2	+4	-8	-11	NNE	2	b	-	-8	-								
	Nicolaiev ...	1023.8	21	0	o	1026.4	*	+5	0	NE	4	b	-	+3	-								
	Odessa ...	1021.3	28	2	S	1026.1	+7	10	-4	ESE	4	o	1	10	-								
	Tarkhankout ...	1024.5	34	4	o	1022.0	*	23	+5	NE	7	o	1	18	-								
	Soukhoum ...																						
	Venice ...	1019.4	37	0	b	1017.5	*	36	+4	-	0	b	-	48	32								
	Pesaro ...					1018.3	*	37	+1	W	7	o	5	41	36								
	Rome ...	1017.4	48	0	o	1013.8	*	48	+3	NE	1	o	11	56	45								
	Viesti ...	1019.4	48	1	o	1015.0	*	48	+2	-	0	o	-	50	46								
	Brindisi ...	1019.1	48	0	o	1017.4	*	48	+5	-	0	o	-	54	43								
SWEDEN.	Cagliari ...	1020.5	61	3	o	1012.5	*	48	-9	NE	3	o	10	66	46								
	Palermo ...	1020.2	52	0	bc	1014.1	*	54	+4	ESE	1	o	1	64	42								
	Tripoli ...					1017.3	*	59	-5	S	1	tlr	68	57									
	Algiers ...	1021.1	57	0	b	1019.8	+2	55	+3	NW	3	o	Trace	66	52								
	Hernösand ...	1022.1	16	SE	2	1014.1	*	18	+8	N	4	o	*	*	*								
	Stockholm ...	1026.1	21	SSE	2	1019.1	*	23	+7	W	4	bc	*	*	*								
	Wisby ...	1027.4	19	ESE	2	1023.1	*	25	-3	SSW	2	o	*	*	*								

## Hours of Observation G.M.T.

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

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine
	Night.	Day.	Max.	Min.	Forenoon.	Afternoon.			Night.	Day.	Max.	Min.	Forenoon.	Afternoon.	
	1st-9h.	9h-12h.	F.	F.					1st-9h.	9h-12h.	°F.	°F.			
Scotland.	Oban ...	-	44	37	o.c	bc.o	0.7	England, E.	Lowestoft ...	Trace	36	28	of	of	0.0
	Banff ...	-	43	37	o	o	0.0		Felixstowe ...	-	38	34	of	of	0.0
	Montrose ...	-							Walton-on-Naze ...	-	43	35	o	o	0.0
	Carnoustie ...	*							Southend-on-Sea ...	-	43	35	o	o	0.0
	St. Andrews ...	-	40	34	f	f	0.0		Margate ...	-	43	35	ofd	o	0.0
Eng. N.E.	Harrogate ...	Trace	35	31	om	om	0.0	England, S.E.	Ramsgate ...	Trace	40	35	fr	fm	0.0
	Skegness ...	Trace	39	35	of.e	of	0.0		Hastings ...	2	41	36	od	od	0.0
Eng. N.W.	Morecambe ...	Trace	41	29	o.fo	o.c.o	0.0		Eastbourne ...	Trace	41	36	f	f	0.0
	Southport ...	Trace	41	29	o.fo	o.c.o	0.0		Seaford ...	1	41	36	om	om	0.0
Midlands.	Leamington Spa ...	-	44	33	of	cm.bc	0.0		Brighton ...	8	41	37	ef	ef	0.0
	Malvern ...	-							Worthing ...	Trace	39	37	o	ofe	0.0
	Ross-on-Wye ...	1							Littlehampton ...	Trace	39	37	o	ofe	0.0
Wales.	Rhyl ...	-	47	25	c.bc	bc.c.o	1.0	England, S.W.	Bognor ...	13	42	37	f	f	0.0
	Colwyn Bay ...	*	48	24	c	bc.o	2.0		Bournemouth ...	13	42	37	f	f	0.0
	Llandudno ...	*	46	28	c	o	1.2		Weymouth ...	Trace	42	37	ofe	ofe	0.0
	Aberystwyth ...	*	47	34	c.o	o	0.0		Torquay ...	Trace	44	33	om	or	0.0
	Tenby ...	*							Paignton ...	Trace	44	33	om	or	0.0
Wales.	Rhyl ...	-	47	25	c.bc	bc.c.o	1.0	England, S.W.	Penzance ...	Trace	54	39	of	ofm	0.0
	Colwyn Bay ...	*	48	24	c	bc.o	2.0		Newquay ...	-	47	33	fd	dr	0.0
	Llandudno ...	*	46	28	c	o	1.2		Bude ...	-	49	36	o	or	0.0
	Aberystwyth ...	*	47	34	c.o	o	0.0		Ilfracombe ...	-	47	37	o	or	0.0
	Tenby ...	*							Weston-s-Mare ...	-	46	35	fe	cm	0.0

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

20th & 21st February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.2 7.0	G.M.T. 12.7 12.7	G.M.T. 5.12 5.14
Greenwich ...	7.7 7.5	12.14 12.14	5.21 5.23
Wick ...	7.35 7.32	12.26 12.26	5.17 5.20
Valencia ...	7.49 7.47	12.55 12.55	6.13 6.3

## NOTES ON YESTERDAY'S WEATHER.

The weather was dull. Most places experienced no bright sunshine. Rain was general, heavy in southern Ireland and south-west England. Temperature became distinctly milder in the west.

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

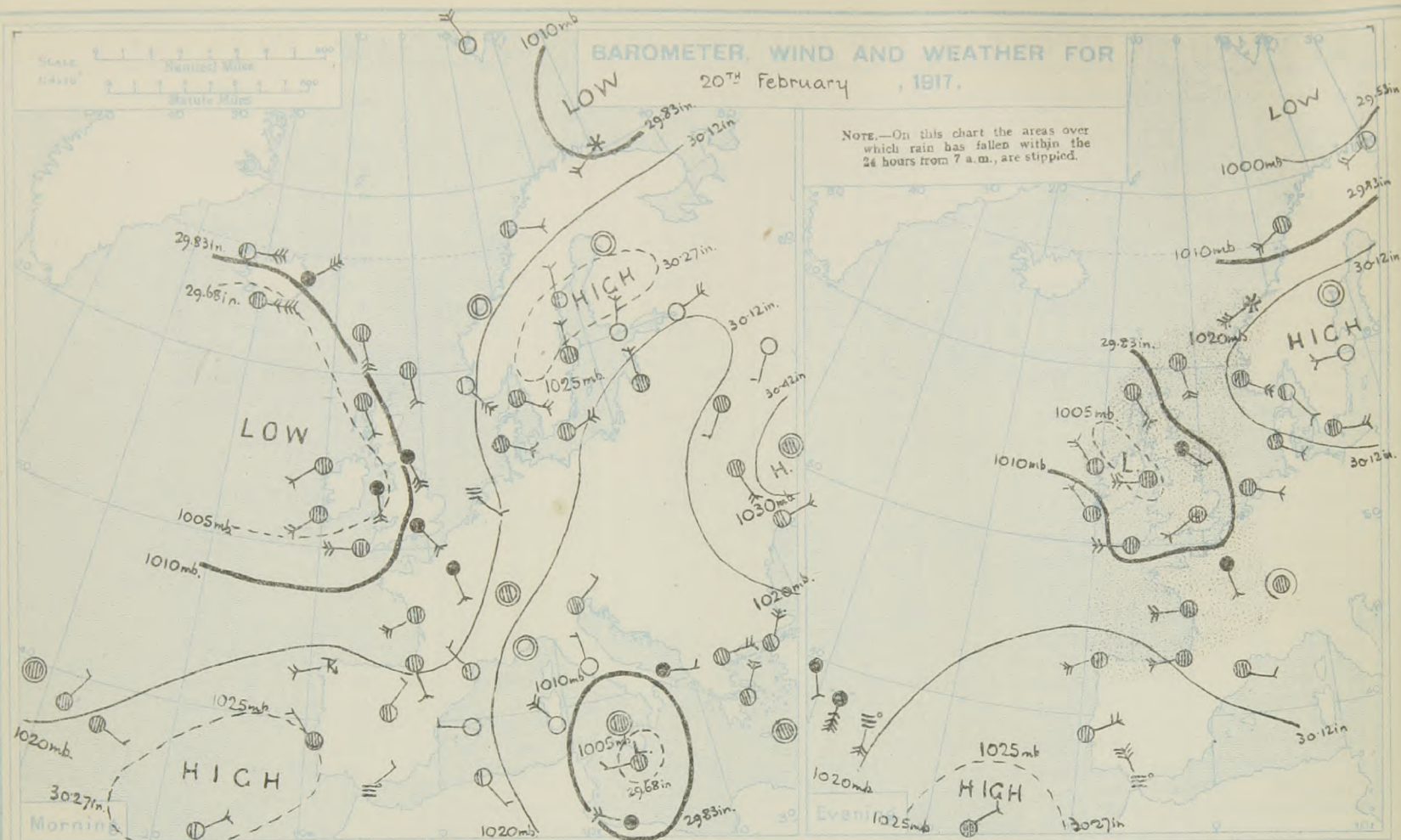
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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 52 Wednesday  
21<sup>st</sup> February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS						Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 5 hours.	Temp. Dry Sub. °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 ...	1016.3	39	SSE	4	om	1017.1	+1	40	0	SSE	3	—	o	3	0.3	40	38	om	om	om	*	
Deerness (Orkney) ...	1011.8	41	SE	5	oz.	1015.6	*	40	0	SE	4	—	opd	4	2	42	39	o	o	opd.	0.0	
Stornoway ...	1007.4	43	SE	3	oz.	1013.1	+3	41	-1	SE	1	—	ad.p.m.	1	1	46	38	oct.	oct.	o.ad.p.m.	1.4	
Castlebay (Barra Isd.) ...	1007.7	42	NE	2	d.	1014.7	+2	44	+2	W	2	—	—	2	11	44	41	r.dr.	r.dr.	dr.do	0.0	
Glasgow ...	1006.3	38	ENE	3	omd	1013.0	+4	39	-6	ENE	2	—	omdp	*	7	39	35	omd	omd.	omd.om	0.0	
Eskdalemuir ...	1006.1	35	ENE	4	or	1011.3	+4	35	0	N	3	—	o	*	8	37	34	or	ad.or.	or.ad.o	0.0	
Malin Head ...	1003.6	42	E	2	omr	1014.0	+5	42	0	NNE	1	—	omg	2	22	45	40	omr	omr	omr.	0.0	
Blacksod Point ...	1008.5	46	NW	3	cg	1017.4	+4	45	-1	NNW	4	NW.	cg	4	1	47	44	b.g	c.g	cg.cgp	0.0	
Valencia ...	1010.4	48	NW	2	o	1019.3	+4	46	-3	NNW	5	—	o	4	4	52	46	ocp	co.	o.p.o	0.6	
Roche's Point ...	1008.0	45	NW	2	o	1016.8	*	45	-3	NW	3	—	o	3	6	50	44	fe.c	pf.bl.m	o.p.o	*	
Birr Castle ...	1008.1	46	WNW	1	o	1015.3	*	45	-1	NW	2	—	o	*	11	48	45	or.	or.o	or.o	0.0	
Donaghadee ...	1003.6	41	E	3	ofr.	1011.7	+4	41	-2	N	4	—	omqp	4	11	43	40	ofr	ofr.	of.rmg	*	
Liverpool (Bidston) ...	1005.1	45	S	2	o	1010.1	+3	40	0	SW	1	—	m	2	9	46	38	or.	o.	om.	0.0	
Holyhead ...	1004.4	46	W	4	oem	1010.7	+3	42	-3	N	5	—	ome	4	7	48	41	or.fm	oc.pd.	o.be.om	0.0	
Pembroke (St. Ann's) ...	1006.6	45	SSW	2	f	1011.2	+3	42	-1	NNW	4	—	od	3	2	46	38	f	f	fe.bcp	0.5	
Scilly (St. Mary's) ...	1007.6	48	W	4	omp.	1013.9	+2	46	-3	NW	6	W	op	5	2	51	45	qm.cm	cm.pom.	op.	1.6	
Falmouth ...	1007.6	48	SW	4	odm	1012.1	*	46	-2	NW	3	—	od	*	3	53	44	oc.be	bc.adm	em.ord	2.1	
Jersey (St. Aubin) ...	1010.4	48	W	3	o	1010.2	*	45	0	W	2	—	fe	1	9	51	42	omr.fe	co.b	fe.fe	1.4	
Portland Bill ...	1007.7	43	WSW	3	f.	1009.6	+2	41	-1	W	1	—	f	4	—	44	41	bc.f.	f.bc	f.	*	
Dungeness ...	1008.6	40	SW	4	f.	1010.4	+1	37	-1	—	0	—	f	2	5	40	36	or.	om.f.	f.	*	
Dover ...	1008.7	40	SW	1	f	1010.9	+2	36	-1	SSW	1	—	f	1	6	41	33	opr.	of.	of.	0.0	
Wick ...	1010.7	41	SE	5	m.	1014.4	+2	41	0	SSE	4	—	o	5	0.3	42	40	p.ong	p.ong	r.omp	*	
Nairn ...	1008.1	41	SSE	2	cg	1013.8	*	36	0	—	0	—	odm	1	4	44	35	c.be	b.c.c.	c.p.m.	3.0	
Aberdeen ...	1010.9	40	SE	5	r	1014.8	+2	39	-1	SE	3	—	r	4	10	41	39	adg.	adg.r.	odr.	0.0	
Leith ...	1006.5	40	E	1	r	1012.4	+2	39	+1	E	1	—	r	2	5	42	37	r.ad.o	r	r.ad.or	*	
Tynemouth ...	1007.0	40	SE	1	omqr	1011.6	+2	40	0	SE	3	—	omr	5	7	40	39	omqr.	omqr.	omqr	*	
Spurn Head ...	1007.2	37	SE	5	ogf.	1009.9	+1	36	-2	SE	4	—	omr	5	8	38	34	ogf.	ogf.	omr	0.0	
Yarmouth ...	1008.7	38	S	4	omr	1009.8	+2	37	0	SE	2	—	f	2	6	38	36	omr	omr	omr.f.	0.0	
Clacton-on-Sea ...	1008.2	38	SE	1	o	1010.1	+2	39	+2	NNW	1	—	f	0	7	41	36	ogmr	ogmr	ogmf.	0.0	
Nottingham ...	1006.4	41	E	1	r	1010.5	*	39	+1	N	1	—	f	*	7	42	38	r.	r.	ro.	0.0	
Benson (Oxon.) ...	1007.3	46	WSW	2	bc	1009.6	+2	40	+1	—	0	—	f	*	4	48	38	or.o	ro	b.of	*	
St. Farnborough ...	1006.9	48	SW	3	o	1009.8	+1	40	+1	—	0	—	f	*	3	51	39	orm.	d.se.om.	an.b.of	0.2	
London (Kew Obsy.) ...	1007.7	46	SW	2	o	1010.2	+3	41	+1	WSW	1	—	of	*	6	47	40	omr.ond	omd.om	omf.ox	0.0	
NORTHERN EUROPE.																						
Spitsbergen ...	990.3	16	SW	3	bc	996.3	+5	16	+4	NE	4	—	o	4	*	16	9	*	*	*	*	
Vardö ...	1004.7	32	SW	4	o	1011.3	+5	25	+11	N	4	—	c	2	?	39	10	*	*	*	*	
Bodö ...	1016.7	34	SW	5	S	1015.5	+1	34	+2	NW	1	—	o	4	9	37	30	*	*	*	*	
Christiansund ...	1016.7	34	SW	5	S	1015.5	+1	34	+2	NW	1	—	o	4	9	37	30	*	*	*	*	
Skudesnaes ...	1020.3	32	ESE	4	o	1020.9	0	28	-6	ENE	4	E	o	2	—	34	28	*	*	*	*	
Færder (X'ania Fjord) ...	1023.7	23	SSW	2	o	1018.1	-1	23	+2	WSW	2	—	b	1	—	23	19	*	*	*	*	
The Scaw (Skagen) ...	1022.6	23	SE	2	b	1020.0	-2	27	-1	SSW	2	—	o	2	—	30	23	*	*	*	*	
Blaavands Huk ...	1019.4	30	ESE	2	o	1019.1	0	39	+9	SE	2	—	b	3	—	39	25	*	*	*	*	
Copenhagen ...	1023.5	25	ESE	3	bc	1021.1	0	25	-2	—	0	—	bc	*	—	30	23	*	*	*	*	
Bornholm ...	1023.0	25	E	3	o	1020.0	-1	25	-2	S	1	—	b	0	—	27	21	*	*	*	*	
FRANCE, &c.																						
The Helder ...	1013.1	26	ESE	2	o	1013.2	+2	30	-2	E	3	—	m	1	—	37	30	*	*	*	*	
C. Gris Nez ...	1009.4	41	S	3	f	1010.4	+2	38	-0	SSW	2	*	f	2	18	43	37	*	*	*	*	
La Hève ...	1009.3	45	W	2	f	1009.3	*	43	0	S	2	*	f	2	9	48	43	*	*	*	*	
Brest (St. Mathieu) ...	1011.3	48	SW	3	c	1014.0	+3	46	0	NNW	4	*	o	5	2	48	45	*	*	*	*	
Rochefort (Ile d'Aix) ...	1014.7	47	WSW	4	o	1012.3	-3	47	-1	W	4	*	r	*	11	50	45	*	*	*	*	
Biarritz ...	1018.7	52	WSW	3	o	1018.1	-1	50	-2	WSW	4	*	b	4	5	59	50	*	*	*	*	
Paris ...	1010.9	45	SSE	2	r	1011.4	+1	41	+4	—	0	—	r	*	15	46	37	*	*	*	*	
Belfort ...	1017.0	39	—	0	o	1013.2	*	39	+7	W	2	*	r	*	12	45	32	*	*	*	*	
Lyons ...	1017.3	41	—	0	o	1014.9	*	41	+11	—	0	*	o	*	13	43	37	*	*	*	*	
Nice ...	1016.3	50	ESE	1	o	1016.7	0	50	+4	NW	3	NW	b	*	—	61	46	*	*	*	*	
Perpignan ...	1016.3	50	ESE	1	o	1016.7	0	50	+4	NW	3	NW	b	*	—	61	46	*	*	*	*	
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—	61	46	*	*	*	*	
SOUTHERN STATIONS.																						
Corunna ...	1022.7	52	WSW	4	c	1025.7	+1	52	-3	NW	2	—	o	2	Trace	59	50	*	*	*	*	
Madrid ...	1021.7	52	W	1	b	1022.1	0	43	+6	WNW	1	—	b	*	—	54	43	*	*	*	*	
Lisbon ...	1024.4	57	ENE	3	c	1024.7	0	52	0	NNW	3	—	b	6	—	59	50	*	*	*	*	
Azores (Horta) ...	1012.9	*	S	8	r.	1026.2	0	52	0	ENE	2	W	b	2	—	63	52	*	*	*	*	
Madeira ...	1025.3	57	ENE	2	o	1021.5	*	55	+8	NW	6	*	b	3	—	65	46	*	*	*	*	
Gibraltar ...	1022.7	57	NW	6	m	1008.4	+6	55	+5	NNW	6	—	o	5	4	55	50	*	*	*	*	
Malta ...	*	*	*	*	*	1017.3	-1	55	+3	NE	4	—	c	5	—	64	45	*	*	*	*	
Limassol ...	*	*	*	*	*	1016.1	-2	55	0	SE	3	W	b	1	—	70	52	*	*	*	*	
Alexandria ...	1018.4	57	—	0	b	1014.3	0	55	+5	SE	2	—	b	*	—	68	48	*	*	*	*	
Cairo (Helwan) ...	1016.8	59	NE	4	b	1014.3	0	55	+5	SE	2	—	b	*	—	68	48	*	*	*	*	
24 Hours ended 9 h. To-Day.																						
LONDON OBSERVATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			SOUTH KENSINGTON.										
		15 h. Yester- day.	9 h. To-day.		Max.	Min.	Min. on Grass.		Morn- ing.	After- noon.</												





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

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

**NO  
WARNINGS  
ISSUED.**

Western Channel and Bay.

Light or moderate South-Easterly winds, becoming indefinite to West or North-West; dull, rainy, then some improvement; normal temperature.

Light indefinite winds, then moderate Northerly or North-Westerly; unsettled, some improvement later; moderate temperature.

Moderate or fresh North-Westerly winds, probably decreasing and backing to-night or to-morrow; cloudy, some showers; moderate temperature.

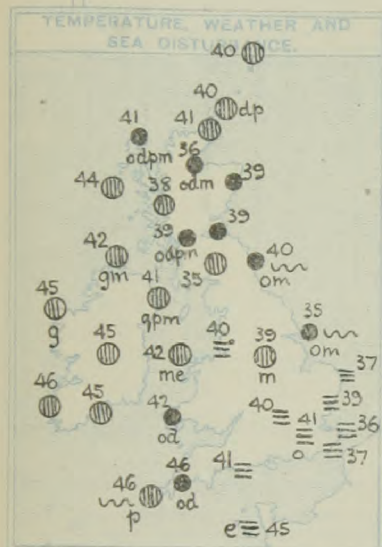
Fresh winds between North-West and South-West; moderate or rather rough sea; unsettled, some rain.

**FURTHER OUTLOOK.**



## GENERAL INFERENCE.


The shallow depression over England will disperse slowly and a North-Westerly current will spread over from the west.



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

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

⚡, thunderstorm.  
SEA DISTURBANCE.—Rough  High .



## REPORTS FOR YESTERDAY.

STATIONS.		PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.				MORNING						
		Barom. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.		
				Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours.	Dir.	Force 0-12.		Weather.	Max.			Min.	Dry Bulb. ° F.	Change in 24 hours.	Dir.		Force 0-12.	
RUSSIA 7 a.m. and 9 p.m. Local Time.																								
Archangel	1017.9	-13	-	0	o	1016.4	-1	-13	+16	S	2	o	-	*	-29	Isafjord	1010.3	36	+6	E	6	bc		
Gorki	1027.5	-11	SW	1	b	1020.3	+1	-4	+15	SW	1	o	-	*	-19	Reykjavik	1003.3	39	o	E	5	r		
Veliki Luki	1011.0	+16	-	0	o	1019.4	*	+1	+18	SSE	3	o	-	*	-17	Vestmanna	1002.7	41	o	E	10	r		
Hangö	1018.4	9	SSW	2	S	1021.1	+3	-4	-18	NNE	2	b	?	*	-6	Seydisfjord	1013.0	37	+5	NE	6	r		
Petrograd	1020.6	+1	SE	4	o	1015.7	+2	+12	+20	N	2	o	9	*	-8	Thorshavn	1012.1	49	+13	SE	5	o		
Moscow	1026.6	-8	W	2	b	1020.2	+1	-6	+11	ENE	3	b	1	3	-17									
Kiev	1022.9	-6	S	2	b	1027.8	o	-19	-10	WSW	1	b	-	*	-19									
Kharkov	1032.8	-15	NW	2	b	1028.8	-3	-8	+1	SSE	3	o	-	*	-9									
Kishinev	1032.7	+3	-	o	b	1033.9	o	-26	-12	-	o	c	-	*	-27									
Elisabetgrad	1033.3	-9	-	o	b	1024.3	-4	+7	-1	ESE	4	S	?	*	+3									
Nicolaiev	1033.1	+1	NE	2	b	1031.7	-2	-18	-10	SE	1	b	-	*	-18									
Odessa	1033.1	9	ENE	3	o	1029.3	*	-4	-9	E	2	c	-	*	-6									
Tarkhankout	1029.5	10	NE	4	b	1028.6	-3	+12	+2	ESE	4	o	-	*	+7									
Soukhom						1026.5	*	10	-13	E	4	o	-	*	7									
MEDITERRANEAN.																								
Venice	1017.3	35	NW	1	c	1018.3	*	43	+7	-	o	o	-	52	35	British Isles								
Pesaro	1018.1	39	-	o	o	1018.1	*	41	+4	NW	4	o	4	49	37	France								
Rome	1013.7	48	N	1	c	1012.6	*	43	-5	N	1	b	-	55	41	Norway								
Viesti	1015.5	48	-	o	o	1014.3	*	48	o	E	1	o	8	50	41	Sweden								
Brindisi	1014.1	50	ESE	1	o	1011.7	*	50	+2	SE	1	r	8	54	48	Denmark								
Cagliari	1009.8	55	NW	4	o	1012.9	*	48	o	NW	4	b	8	61	43	Holland								
Palermo						1008.1	*	48	-6	-	o	o	20	63	41	Italy								
Tripoli						1009.9	*	59	o	NW	3	r	9	68	55	Egypt								
Algiers	1022.3	52	NW	2	b	1022.4	+1	48	-7	SE	1	bc	-	55	46	Corunna								
SWEDEN.																								
Hernösand	1022.9	5	N	6	o	1026.9	*	-4	-22	N	2	bc	*	*	*	Madrid								
Stockholm	1019.1	18	N	6	S	1024.7	*	10	-13	N	2	o	*	*	*	Lisbon								
Wisby	1017.6	30	W	6	o	1022.6	*	19	-6	NE	2	o	*	*	*	Azores								

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	-
Limassol	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			
	Mm.	Mm.	F.	F.			Hr.		Mm.	Mm.	° F.	° F.			Hr.		
Scotland.	Oban ... ..	1	3	43	39	or	or	0.0	England, E.	Lowestoft ... ..	Trace	4	38	34	or	r	0.0
	Banff ... ..	1	-	40	38	o	opd	0.0		Felixstowe ... ..	1	4	38	34	omr	omrf	0.0
	Montrose ... ..									Walton-on-Naze ... ..							
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	2	5	41	36	or	or	0.0
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	6	5	38	31	of	orm	0.0	England, S.E.	Margate ... ..	1	4	41	36	or	orf	0.0
	Skegness ... ..	2	5	39	34	or	or	0.0		Ramsgate ... ..							
Eng. N.W.	Morecambe ... ..	4	4	44	39	-	-	0.0		Hastings ... ..	4	4	42	37	fr	fr	0.0
	Southport ... ..	7	5	44	38	r	or	0.0		Eastbourne ... ..	6	4	44	37	ode	od	0.0
Midlands.	Leamington Spa ... ..									Seaford ... ..	*	*	42	37	r	f	0.0
	Malvern ... ..								Brighton ... ..								
	Ross-on-Wye ... ..	9	3	51	40	or	c. bcp	1.4	Worthing ... ..	11	2	43	37	dr	dr	0.0	
									Littlehampton ... ..	8	1	41	37	dro	ofe	0.0	
									Bognor ... ..	*	*						
Wales.	Rhyl ... ..	18	3	50	32	r	cr	0.1	Bournemouth ... ..	8	1	49	37	f	f	0.0	
	Colwyn Bay ... ..	*	*	51	41	cr	c. bc	5.4	Plymouth ... ..	*	*	52	44	c. b. of	c. b	2.9	
	Llandudno ... ..	*	*	50	41	r	rc	0.2	Weymouth ... ..	*	*	47	40	orf	f	2.2	
	Aberystwyth ... ..	*	*	47	40	ro. c	c. o	4.4	Torquay ... ..	8	-	51	40	o. c	c. bc. o	3.1	
	Tenby ... ..								Paignton ... ..								
									Penzance ... ..	18	1	54	46	bc	cr	1.3	
									Newquay ... ..	14	Trace	52	40	fd. b	b	2.9	
									Bude ... ..	14	-	49	44	cr	c	1.5	
									Ilfracombe ... ..	12	Trace	50	42	cmr	mbe. c	0.8	
									Weston-s-Mare ... ..	15	3	45	38	cr	bc. c	0.1	

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> February, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.58	12.7	5.14
Greenwich	7.5	12.4	5.23
Wick	7.32	12.26	5.20
Valencia	7.47	12.55	6.3

## NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally; 22 millimetres at Malin Head. Temperature rose to 50° at several stations. Much fog prevailed, particularly round the south-east coast.

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

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Weather	
bc	
r	
o	
r	
o	

G.M.T.	
Evening	
18	
18	
18	
17	
18	
20	
18	
16	
16	
21	
17	
21	
—	
—	

REF.	Sp. dist.
Afternoon	
r	0.0
omrf	0.0
or	0.0
orf	0.0
fr	0.0
od	0.0
f	0.0
dr	0.0
dfe	0.0
f	0.0
c. b	1.0
f	2.0
c. bc. o	3.0
cr	1.0
b	2.0
c	1.0
mb. c	0.0
bc. c	0.0

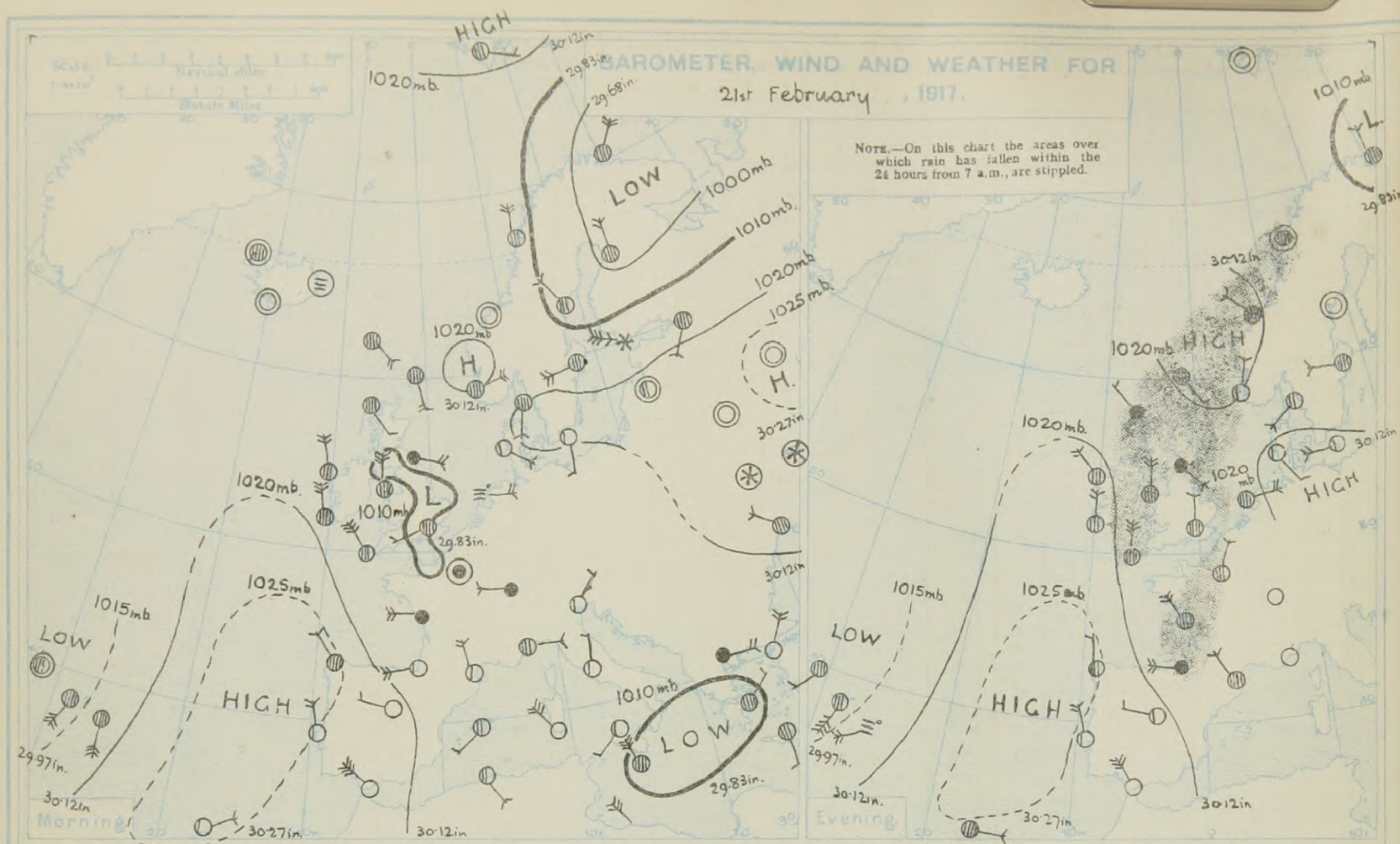
  

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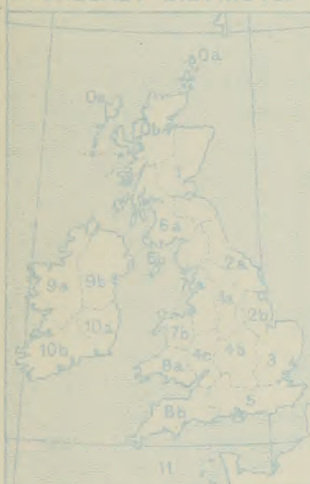
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and wrappers





**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 1)

Light winds, indefinite in direction;  
cloudy, some mist; temperature rather lower.

Light Northerly or indefinite winds;  
slight sea; cloudy.

**FURTHER OUTLOOK.**

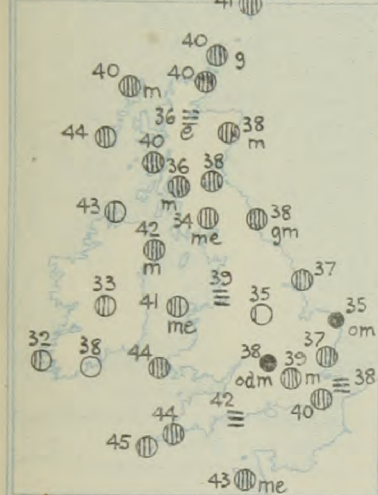


# SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 22<sup>nd</sup> FEBRUARY, 1917.

## GENERAL INFERENCE.

Quiet conditions are likely to continue.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

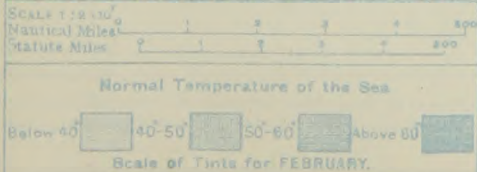
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm  
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown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

HIGH

Barometer  
 rising  
 generally

LOW

LOW





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.					MORNING.							
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer.		Temp.		WIND.		Weather.	Rain- fall. Milli- metres.	Temp.		Barom. Milli- bars at M.S.L.	Temp.		WIND.		Weather.		
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Dir.	Force 0-12.			Max.	Min.		Dry Bulb. ° F.	Change in 24 hours. ° F.	Dir.	Force 0-12.			
RUSSIA 7 a.m. and 9 p.m. Local Time.																							
Archangel	1019.1	+1	S	1	b	1021.0	0	-17	-13	-	0	b	4	*	-11	1014.0	37	+1	-	0	0		
Gorki	1021.7	-4	-	0	b	1022.6	*	-15	-16	SSE	3	0	1	*	-17	1014.3	37	-2	-	0	0		
Velieki Luki	1023.7	-2	-	0	b	1013.1	-6	+23	+27	WNW	8	S	1	*	-8	1014.9	37	-4	-	0	b		
Hangö	1022.6	+5	ENE	1	c	1021.3	-2	-8	-20	-	0	bc	-	*	-8	1018.7	36	-1	-	0	0		
Petrograd	1022.6	-6	E	2	b	1017.1	-5	-8	-2	SW	2	0	-	0	?	1016.5	40	-9	SE	3	0		
Moscow	1026.4	-4	SSE	2	0	1026.7	0	-15	+4	-	0	b	-	*	-17								
Kiev	1021.3	+7	SW	2	0	1022.6	+1	+3	+11	-	0	S	1	*	-8								
Kharkov	1020.9	+1	-	0	0	1023.3	-1	+3	+29	SE	2	S	?	*	-26								
Kishinev	1020.2	+23	-	0	0	1019.5	0	23	+16	NW	1	0	1	*	+7								
Elisabetgrad	1022.3	14	S	2	S	1021.3	0	12	+30	N	2	S	-	*	-18								
Nicolaiev	1022.3	18	SSE	2	0	1021.0	*	19	+23	NNE	2	0	1	*	-4								
Odessa	1021.5	28	ESE	2	0	1021.5	+1	21	+9	NW	2	0	1	*	+12								
Tarkhankout.	1022.3	37	S	5	0	1020.7	*	34	+24	N	3	0	1	*	10								
Soukhom	1019.7	37	-	0	0	1022.4	+3	34	-	NNE	1	bc	1	*	32								
MEDITERRANEAN.																							
Venice	1017.5	45	E	1	b	1014.3	*	37	-6	-	0	b	8	45	35								
Pesaro	1017.5	43	WNW	2	b	1015.1	*	50	+9	WSW	1	b	-	50	32								
Rome	1013.1	48	N	2	b	1013.0	*	41	-2	N	1	b	-	59	39								
Viesti	1012.9	48	-	0	r	1012.3	*	48	0	W	2	0	-	52	43								
Brindisi	1012.6	50	NW	1	0	1010.3	*	52	+2	NW	1	0	5	55	50								
Cagliari						1015.5	*	46	-2	NW	5	b	-	59	41								
Palermo	1007.7	46	WSW	2	0	1012.7	*	52	+4	SW	1	b	28	52	45								
Tripoli						1015.1	*	64	+5	NW	5	c	8	73	51								
Algiers	1021.0	55	SE	2	bc	1018.6	0	50	+2	SE	2	bc	-	63	48								
SWEDEN.																							
Hernösand	1024.8	14	-	0	b	1008.0	*	25	+29	NNW	2	c	*	*	*								
Stockholm	1024.4	10	W	2	b	1013.7	*	18	+8	WSW	4	c	*	*	*								
Wisby	1023.9	19	N	2	b	1019.5	*	23	+4	W	4	c	*	*	*								
Hours of Observation G.M.T.																							
																	Morning.		Evening.				
																	h.		h.				
British Isles																	7		18				
France																	7		18				
Norway																	7		18				
Sweden																	7		17				
Denmark																	7		18				
Holland																	7		18				
Italy																	7		20				
Egypt																	6		18				
Corunna...																	7		16				
Madrid																	8		16				
Lisbon																	7		21				
Azores																	8		17				
Madeira																	7		21				
Malta																	8		—				
Limassol																	6		—				

## Hours of Observation G.M.T.

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

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 1st-9h.	Day. 9h-1st.	Max.	Min.	Forenoon.	Afternoon.			Night. 1st-9h.	Day. 9h-1st.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Oban ... ..	2	—	44	37	o	o	0.0	England, E.	Lowestoft ... ..	3	Trace	39	36	ap.o	o	0.0
	Banff ... ..	3	3	40	38	or	ord	0.0		Felixstowe ... ..	1	—	41	36	of	of	0.0
	Montrose ... ..	*	*	*	*	*	*	0.0		Walton-on-Naze ... ..	Trace	—	42	36	ome	ome	0.0
	Carnoustie ... ..	*	*	*	*	*	*	0.0		Southend-on-Sea ... ..	—	—	45	39	oz	of	0.0
	St. Andrews ... ..	6	3	41	39	op	op	0.0									
Eng. N.E.	Harrogate ... ..	2	Trace	38	35	om	omuw	0.0	England, S.E.	Margate ... ..	Trace	—	44	37	of.c	ofg	0.0
	Skegness ... ..	5	Trace	38	35	od	od	0.0		Ramsgate ... ..	1	—	44	36	fm	f	0.0
Eng. N.W.	Morecambe ... ..	2	Trace	42	39	od.o	og.o	0.0		Hastings ... ..	Trace	—	45	38	om	og	0.0
	Southport ... ..	2	Trace	42	39	od.o	og.o	0.0		Eastbourne ... ..	Trace	—	45	38	om	og	0.0
								Seaford ... ..		*	*	43	37	f	f	0.0	
								Brighton ... ..		1	—	41	37	om	of	0.0	
								Worthing ... ..		3	—	45	39	o	o	0.0	
Midlands.	Leamington Spa ... ..	1	—	47	38	c.bc	bc.c.o	1.0		Littlehampton ... ..	Trace	—	42	38	o	o	0.1
	Malvern ... ..	Trace	—	49	34	om	c.b.or	0.0		Bognor ... ..	*	*	49	41	om	om	0.0
	Ross-on-Wye ... ..	Trace	—	49	34	om	c.b.or	0.0		Bournemouth ... ..	—	—	49	41	om	om	0.0
Wales.	Rhyl ... ..	1	1	40	38	od	dm	0.0	England, S.W.	Plymouth ... ..	*	*	47	43	o	o	0.0
	Colwyn Bay ... ..	*	*	46	37	cd	cd.o	1.5		Weymouth ... ..	*	*	49	41	cm	cm	0.3
	Llandudno ... ..	*	*	45	39	fe	fe	0.0		Torquay ... ..	1	—	49	43	c.bc	c.o	1.4
	Aberystwyth ... ..	*	*	41	39	or.c	o	2.3		Paignton ... ..	*	*	49	43	c.bc	c.o	1.4
	Tenby ... ..	*	*	41	39	or.c	o	2.3		Penzance ... ..	3	1	46	44	cm.o	orm	0.2
								Newquay ... ..		4	1	43	41	cd.c	o	0.0	
							Bude ... ..	4	—	49	42	o	o	0.0			
							Ilfracombe ... ..	1	—	45	42	o	o	0.0			
							Weston-s-Mare ... ..	Trace	—	43	39	e	c.o	0.0			

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> February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth	G.M.T. 6.58 6.56	G.M.T. 12.7 12.7	G.M.T. 5.16 5.13
Greenwich	7.3 7.1	12.14 12.14	5.25 5.27
Wick	7.30 7.27	12.26 12.26	5.33 5.35
Valencia	7.45 7.43	12.55 12.55	6.5 6.7

## NOTES ON YESTERDAY'S WEATHER.

Light rain fell generally and fog continued prevalent in the south-east. Temperature remained moderate. The day was almost sunless everywhere.

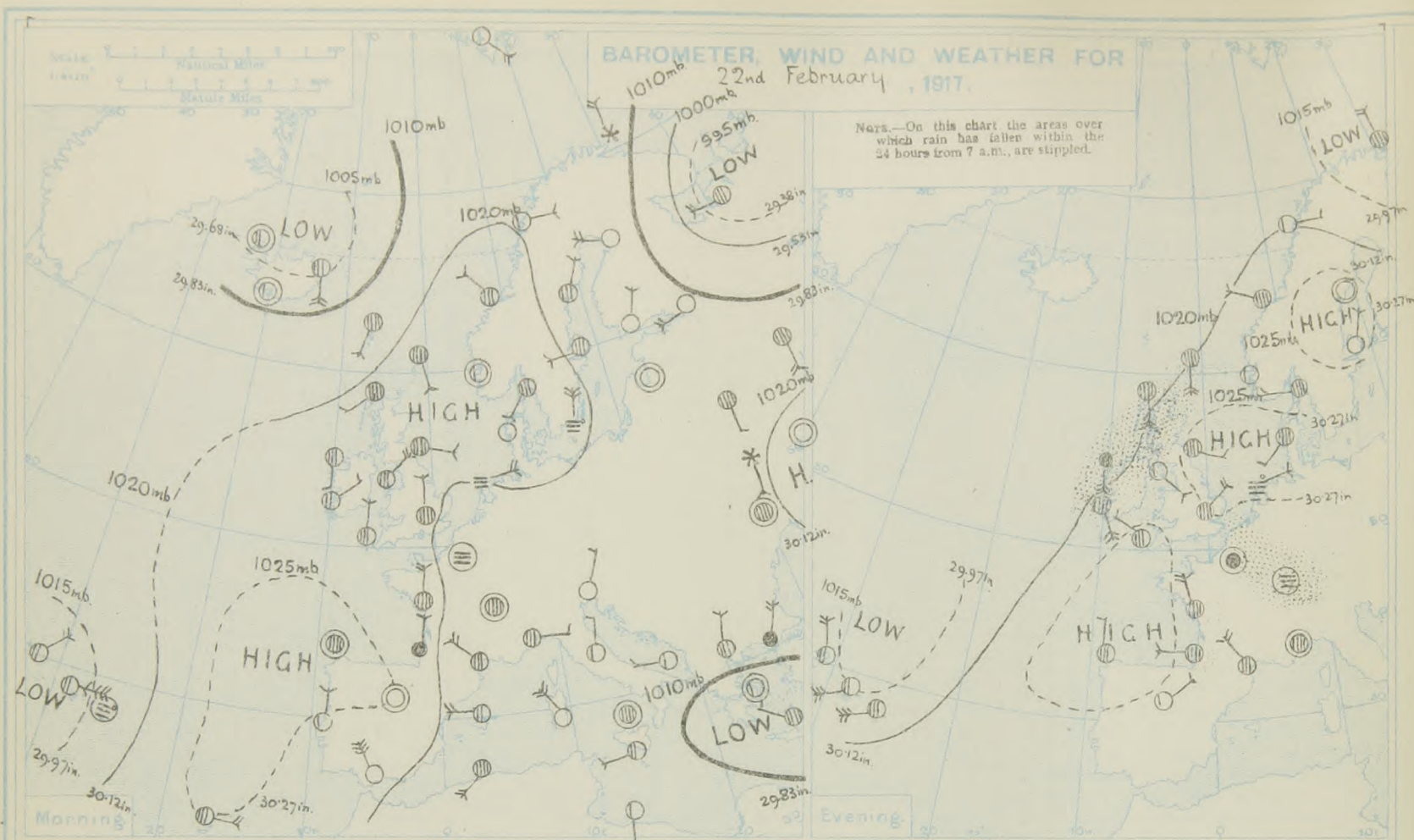
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain;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

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<sup>+</sup> The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

NO  
WARNINGS  
ISSUED.

Western Channel and Bay 11

Fresh South-Westerly winds, veering Westerly; rain at first, then showery with fair intervals; moderate temperature.

Light South Westerly winds, freshening a little and veering Westerly later; changeable, showery, some mist and fog; moderate temperature.

Same as Nos. 0 to 2.

Moderate or fresh South-Westerly to Westerly winds; unsettled, showery, improving; moderate temperature.

Light indefinite winds; slight sea; fair.

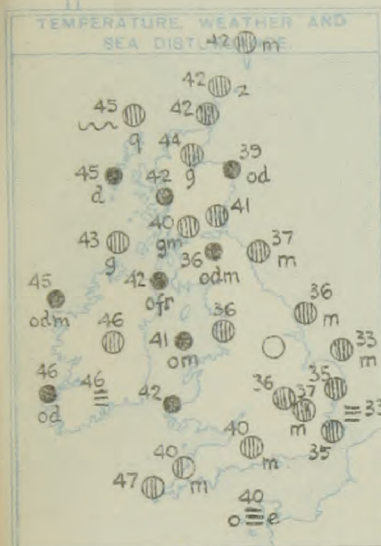
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 23<sup>RD</sup> FEBRUARY, 1917.

## GENERAL INFERENCE

The main depression is likely to pass to Norway, but the "V"-shaped depression over Ireland will cause rain or showery weather over all the country.



## EXPLANATION.

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

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

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

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

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.					MORNING.				
	Barom.	Temp.	Wind.	Force	Weather.	Barometer.	Change	Temp.	Change	Wind.	Force	Weather.	Rain-fall.	Temp.	Temp.	Barom.	Temp.	Change	Wind.	Force
	Millibars at M.S.L.	°F.	Dir.	0-12.		Millibars at M.S.L.	in 3 hours.	°F.	in 24 hours.	Dir.	0-12.		Milli-metres.	°F.	°F.	Millibars at M.S.L.	°F.	in 24 hours.	Dir.	0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	99.27	3	SW	6	S	99.30	+2	-2	W	3	c	-	*	-	1003.9	36	-1	-	0
	Gorki ...	102.6	1	S	1	b	101.47	0	?	S	1	o	-	*	-17	1007.5	36	-1	SE	2
	Veliki Luki ...	107.9	5	SSE	2	o	1012.4	*	?	-	0	s	1	*	+3	1009.7	37	0	-	0
	Hangö ...	1012.3	18	-	0	bc	1015.4	+1	7	-	0	b	-	*	-6	1004.4	45	+4	S	4
	Riga ...	1012.8	16	SSW	2	S	1016.3	+3	10	-	0	b	2	*	-8	1018.5	40	0	SSW	2
	Petrograd ...	1007.4	10	W	3	o	1010.7	+2	-4	W	3	b	1	12	-9	-	-	-	-	-
	Moscow ...	1022.3	-2	S	3	b	1017.1	-2	+9	S	3	o	-	*	-6	-	-	-	-	-
	Kiev ...	1023.5	+5	SE	3	b	1019.7	-2	5	+	2	s	-	*	+3	-	-	-	-	-
	Kharkov ...	1025.9	0	E	2	b	1024.0	-2	-19	-	0	b	-	*	-19	-	-	-	-	-
	Kishinev ...	1020.7	18	-	0	o	1018.3	-1	+14	-	0	o	-	*	+14	-	-	-	-	-
	Elisabetgrad ...	1024.2	-2	SW	1	b	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nicolaiev ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEDITERRANEAN.	Odessa ...	1021.0	21	ESE	3	o	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tarkhankout ...	1019.0	30	NE	3	c	1014.7	*	23	NNE	7	o	-	*	23	-	-	-	-	-
	Soukhoum ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Venice ...	1013.5	43	-	0	b	1016.6	*	36	NNE	1	b	-	48	34	-	-	-	-	-
	Pesaro ...	1013.9	37	SW	1	b	1016.5	*	34	SW	1	b	-	46	32	-	-	-	-	-
	Rome ...	1012.1	43	E	1	c	1013.3	*	41	N	1	b	-	55	39	-	-	-	-	-
	Viesti ...	1012.6	46	WNW	1	b	1012.9	*	46	WNW	2	b	-	54	46	-	-	-	-	-
	Brindisi ...	1010.6	52	NW	2	b	1011.5	*	45	W	1	b	-	54	45	-	-	-	-	-
SWEDEN.	Cagliari ...	1012.6	59	NW	4	c	1014.2	*	48	NW	4	b	6	61	43	-	-	-	-	-
	Palermo ...	-	-	-	-	-	1013.4	*	62	-	0	o	5	81	46	-	-	-	-	-
	Tripoli ...	-	-	-	-	-	1017.4	*	59	-	1	b	Trace	68	54	-	-	-	-	-
	Algiers ...	1017.0	55	WNW	4	bc	1015.8	0	55	SW	3	o	Trace	63	48	-	-	-	-	-
SWEDEN.	Hernösand ...	1015.4	14	-	0	b	1019.3	*	14	NNE	2	c	*	*	*	-	-	-	-	-
	Stockholm ...	1015.1	25	W	2	o	1019.1	*	12	WSW	2	c	*	*	*	-	-	-	-	-
	Wisby ...	1013.7	30	NW	6	S	1018.1	*	27	NNW	4	b	*	*	*	-	-	-	-	-

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles ...	7	18
France ...	7	18
Norway ...	7	18
Sweden ...	7	17
Denmark ...	7	18
Holland ...	7	18
Italy ...	7	20
Egypt ...	6	18
Corunna ...	7	16
Madrid ...	8	16
Lisbon ...	7	21
Azores ...	8	17
Madeira ...	7	21
Malta ...	8	-
Limassol ...	6	-

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine.	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine.		
	Night.	Day.	Max.	Min.	Forenoon.	Afternoon.			Night.	Day.	Max.	Min.	Forenoon.	Afternoon.			
	18h-9h.	9h-12h.	F.	F.					18h-9h.	9h-12h.	° F.	° F.					
Scotland.	Oban ... ..	Trace	44	38	op	o	0.0	England, E.	Lowestoft ... ..	4	Trace	37	34	omr	o	0.0	
	Banff ... ..	Trace	42	36	o	o	0.0		Felixstowe ... ..	2	1	38	34	omp	om	0.0	
	Montrose ... ..								Walton-on-Naze ... ..								
	Carnoustie ... ..	*	*						Southend-on-Sea ... ..	1	-	39	37	o	o	0.0	
	St. Andrews ... ..																
Eng. N.E.	Harrogate ... ..	2	-	37	33	om	o	0.0	England, S.E.	Margate ... ..	1	-	38	35	o	o	0.0
	Skegness ... ..	1	-	38	34	o	o	0.0		Ramsgate ... ..							
Eng. N.W.	Morecambe ... ..	1	-	42	38	-	-	0.0		Hastings ... ..							
	Southport ... ..	Trace	-	39	36	o	o	0.0		Eastbourne ... ..	Trace	-	42	37	o.c	o.bc	0.0
								Seaford ... ..		*	*						
								Brighton ... ..		-	-	41	38	o	o	0.0	
								Worthing ... ..		-	-	41	39	o	o	0.0	
Midlands.	Leamington Spa ... ..							0.0		Littlehampton ... ..	-	-	42	39	o	o	0.0
	Malvern ... ..	1	-	38	36	o	o	0.0		Bognor ... ..	*	*					
	Ross-on-Wye ... ..	1	-	40	37	of	om	0.0	Bournemouth ... ..	-	-	45	40	o	o	0.0	
Wales.	Rhyl ... ..	1	Trace	41	36	dm	dm	0.0	England, S.W.	Plymouth ... ..	-	-	48	39	o	o	0.0
	Colwyn Bay ... ..	*	*	41	38	c	om	0.0		Weymouth ... ..	-	-					
	Llandudno ... ..	*	*	43	38	f		0.0		Torquay ... ..	-	-	47	40	o	o	2.3
	Aberystwyth ... ..	*	*	42	38	fo.c	c.o	1.0		Paignton ... ..	*	*					
	Tenby ... ..	*	*							Penzance ... ..	Trace	-	50	43	o.c	c	0.2
								Newquay ... ..		-	-	46	41	o	o	0.0	
								Bude ... ..	-	-	48	42	c	o	0.0		
								Ilfracombe ... ..	Trace	-	45	40	?	f.bcf	1.0		
								Weston-s-Mare ... ..									

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

Feb. 23 <sup>rd</sup> 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.56 6.53	G.M.T. 12.7 12.6	G.M.T. 5.18 5.19
Greenwich ...	7.1 6.53	12.14 12.13	5.27 5.28
Wick ...	7.27 7.24	12.26 12.25	5.25 5.27
Valencia ...	7.43 7.41	12.55 12.54	6.7 6.8

## NOTES ON YESTERDAY'S WEATHER.

Little rain fell except at a few western stations. Temperature just reached 50° in some localities. The day was generally dull.

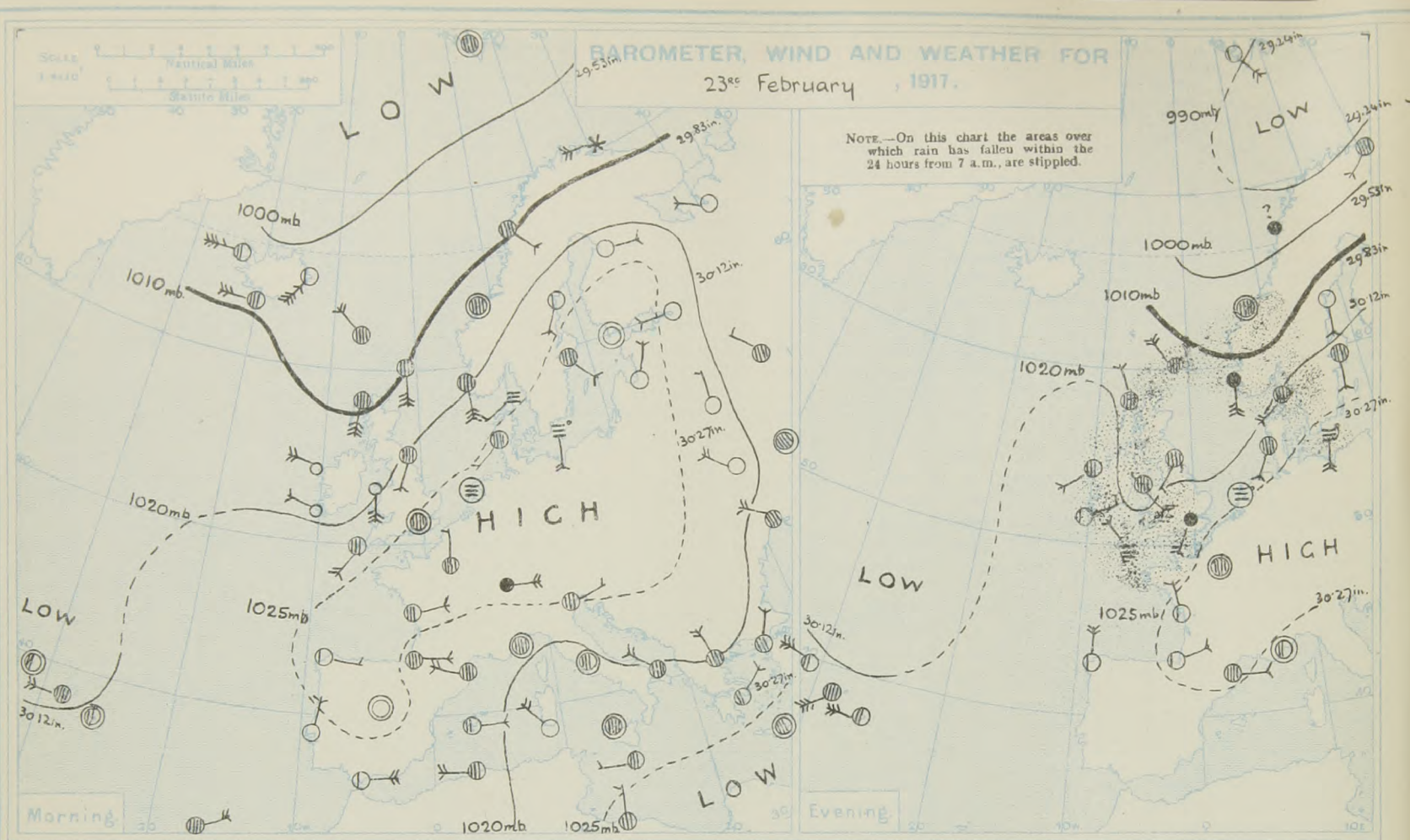
NOTE.—The information relating to weather is indicated by the following letters—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling rain; e, wet air, without rain falling; f, fog; g, gloom; h, hail; i, lightning; m, mist; o, overcast sky; p, passing showers; q, squalls; r, rain;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

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FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.



**STORM WARNINGS.**

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

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

NO WARNINGS ISSUED.

Western Channel and Bay 11

Light winds indefinite in direction; cloudy, occasional light rain, much coast mist and fog; normal temperature.

Light indefinite to Southerly winds; cloudy, some showers; normal temperature.

Light or moderate winds between South and East; slight sea; fair, some mist and fog.

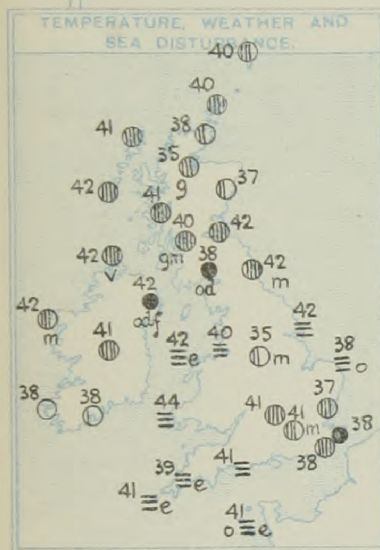
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 24<sup>TH</sup> FEBRUARY, 1917.

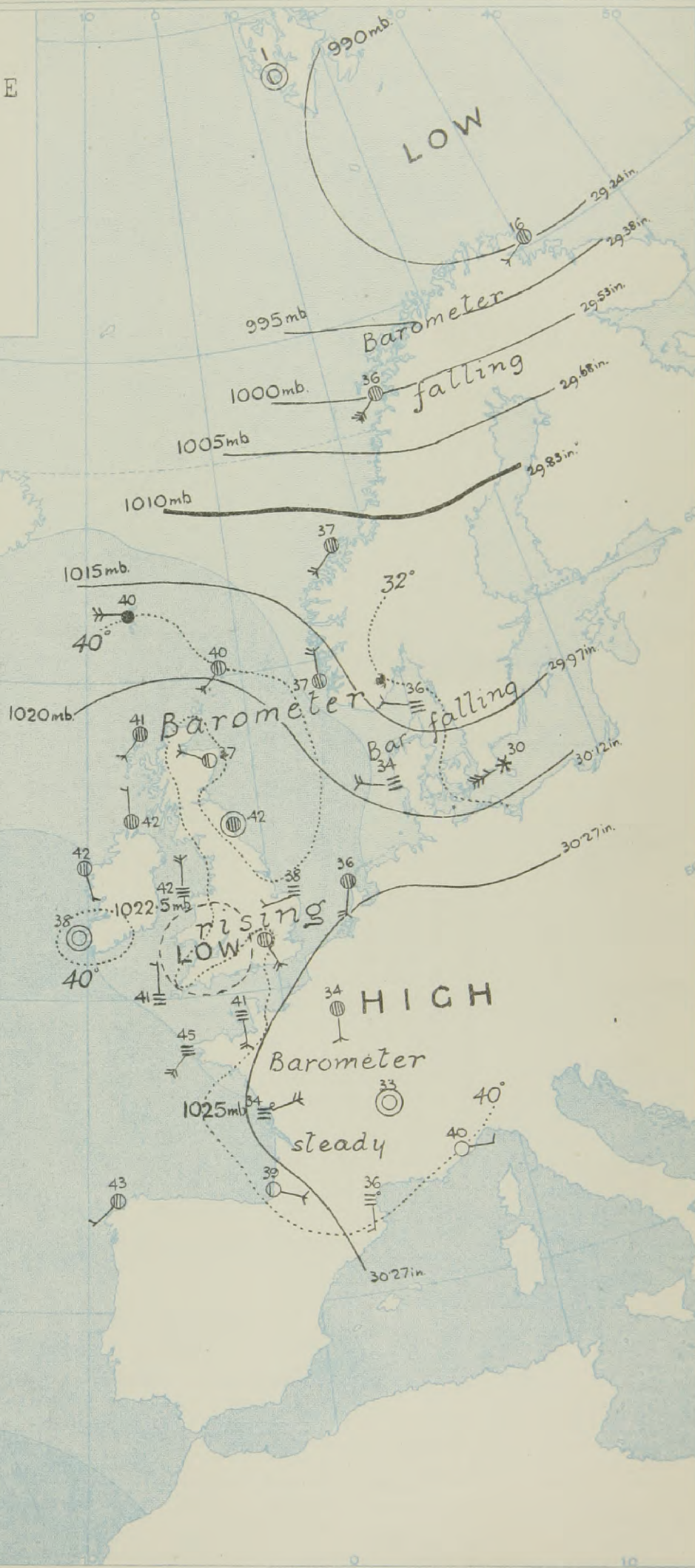
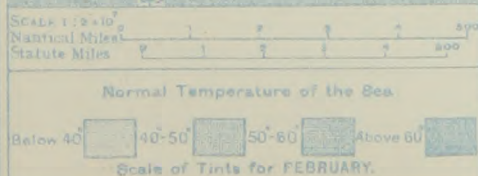
## GENERAL INFERENCE

Quiet conditions are likely to continue.



### EXPLANATION.

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





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.					PAST 24 HOURS.			MORNING.									
	Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.			
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.		Weather.	Max.		Min.	Dry Bulb.	Change in 24 hours.	Dir.		Force 0-12.	Weather.	
		° F.					° F.						° F.	° F.									
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1009.6	-13	NW	3	b	1015.5	+4	-23	-21	NW	2	b	-	*	-27	Isafjord ...	1003.9	34	-2	W	7	bc
	Gorki ...	1014.0	+3	-	0	b	1015.3	-	-4	-	N	1	b	-	*	-4	Reykjavik ...	1007.3	36	0	SW	4	o
	Veliki Luki ...	1014.6	5	SE	2	b	1022.1	-	-5	-15	NW	4	bc	-	*	-5	Vestmanna ...	1009.1	36	-1	W	5	3
	Hangö ...	...	...	...	...	...	1021.3	+3	-8	-15	-	0	b	-	*	-12	Seydisfjord ...	1004.7	34	-11	SW	8	b
	Riga ...	1021.5	9	NNE	2	b	1029.0	+4	-2	-12	NNE	2	b	1	*	-2	Thorshavn ...	1004.3	43	+3	NW	3	o
	Petrograd ...	1016.8	+1	N	4	b	1024.7	+4	-17	-13	W	2	b	1	7	-17							
	Moscow ...	1013.7	-2	WSW	2	o	1015.9	+2	-8	-7	NW	1	o	1	*	-12							
	Kiev ...	1017.5	+12	NW	2	S	1019.1	+1	+5	0	NW	3	b	1	*	+5							
	Kharkov ...	1017.9	-4	-	0	o	1016.4	0	0	+19	-	0	o	-	*	-19	Hours of Observation G.M.T.						
	Kishinev ...	1018.9	+21	-	0	S	1020.8	+1	16	+2	NW	3	o	1	*	+10				Morning.	Evening.		
Elisabetgrad ...	1018.3	7	NW	2	S	1018.6	0	5	+11	NW	2	b	-	*	-6								
Nicolaiev ...	1017.9	14	-	0	o	1020.3	-	10	+5	SW	2	o	?	*	+3								
Odessa ...	1018.9	19	NNE	2	b	1021.1	+1	14	0	NW	3	o	-	*	10								
Tarkhankout ...	1018.0	23	NE	3	b	1020.2	-	25	+2	NW	4	o	-	*	18								
Soukhoum ...	...	...	...	...	...	1016.6	+2	37	-	-	0	r	31	*	37								
MEDITERRANEAN.	Venice ...	1020.5	43	-	0	b	1025.0	-	37	+1	ENE	1	c	-	50	36							
	Pesaro ...	1020.5	37	-	0	b	1023.7	-	36	+2	W	2	c	-	48	32							
	Rome ...	1016.1	48	-	0	b	1019.1	-	41	0	-	0	c	-	57	39							
	Viesti ...	1016.6	45	WNW	1	b	1020.3	-	46	0	ENE	1	c	-	48	43							
	Brindisi ...	1015.7	46	NW	3	b	1016.9	-	50	+5	NW	3	o	-	54	45							
	Cagliari ...	1016.6	59	NW	4	b	1016.9	-	50	+2	NW	3	b	8	63	45							
	Palermo ...	1014.9	50	-	0	b	1016.6	-	46	-12	-	0	o	-	61	43							
	Tripoli ...	1015.9	63	-	0	b	1014.3	-	61	+2	S	1	c	-	66	55							
	Algiers ...	1019.8	48	WSW	1	r	1022.1	+2	50	-5	W	3	c	13	61	48							
	SWEDEN.	Hernösand ...	1026.7	1	-	0	b	1024.2	-	12	-2	SW	2	b	*	*	*						
Stockholm ...		1026.6	10	NNE	2	b	1028.7	-	14	+2	SE	2	o	*	*	*							
Wisby ...		1021.7	25	SW	6	bc	1027.9	-	18	-9	SSE	2	o	*	*	*							

## Hours of Observation G.M.T.

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

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine			
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.				
	Mm.	Mm.	F.	F.					Mm.	Mm.	° F.	° F.						
Scotland.	Oban ... ..	2	1	46	37	ob	-	0.0	England, E.	Lowestoft ... ..	Trace	-	38	33	om	o	0.0	
	Banff ... ..	Trace	-	50	36	c.bc	bc.c	0.6		Felixstowe ... ..	-	-	38	33	om.bc	bc.m	1.2	
	Montrose ... ..	-	-	-	-	-	-	-		Walton-on-Naze ... ..	-	-	38	34	oz	o bc.c	1.4	
	Carnoustie ... ..	*	*	-	-	-	-	-		Southend-on-Sea ... ..	-	-	44	34	fo.c	o	1.7	
	St. Andrews ... ..	-	-	48	36	o.c	bc.b	1.8		Margate ... ..	Trace	-	43	32	of.c	c	0.8	
Eng. N.E.	Harrogate ... ..	-	Trace	41	32	od	o	0.2	England, S.E.	Ramsgate ... ..	-	-	40	35	o.c	bc.o	0.2	
	Skegness ... ..	-	Trace	43	34	o.c	o	0.2		Hastings ... ..	-	-	41	35	o.c	o.bc.o	0.1	
Eng. N.W.	Morecambe ... ..	-	3	43	34	-	-	0.0		Eastbourne ... ..	-	-	42	35	o.c	o	1.0	
	Southport ... ..	Trace	4	42	35	or	or	0.0		Seaford ... ..	-	-	40	36	a.c.o	o	0.8	
										Brighton ... ..	-	-	43	37	-	-	0.3	
Midlands.	Leamington Spa ... ..	-	4	43	35	or	or	0.0		England, S.W.	Worthing ... ..	-	-	41	37	o	bc.o	0.4
	Malvern ... ..	-	4	44	34	omr	ro	0.0			Littlehampton ... ..	-	-	42	37	bc	or	0.7
	Ross-on-Wye ... ..	-	4	44	34	omr	ro	0.0			Bognor ... ..	-	-	42	37	bc	or	0.7
Wales.	Rhyl ... ..	1	3	47	35	or	or	0.0	England, S.W.		Bournemouth ... ..	Trace	1	44	34	o	o	0.0
	Colwyn Bay ... ..	*	*	48	36	rc	bc	2.1			Weymouth ... ..	-	-	45	38	cm.bc	bc.omr	1.1
	Llandudno ... ..	*	*	48	36	rc	c	0.0		Torquay ... ..	-	-	45	38	cm.bc	bc.omr	1.1	
	Aberystwyth ... ..	*	*	45	37	ro.c	o	1.0		Paignton ... ..	-	-	45	38	cm.bc	bc.omr	1.1	
	Tenby ... ..	-	-	-	-	-	-	-		Penzance ... ..	Trace	4	49	41	omr	omr	0.0	

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

24 <sup>th</sup> & 25 <sup>th</sup> February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.53	G.M.T. 12.6	G.M.T. 5.19
Greenwich ...	6.51	12.6	5.21
Wick ...	6.58	12.13	5.28
Valencia ...	7.24	12.25	5.27
	7.21	12.25	5.29
	7.41	12.54	6.8
	7.39	12.54	6.10

## NOTES ON YESTERDAY'S WEATHER.

Fairly heavy rain fell at some stations in the south, 11 mm. at Jersey. 5.8 hours of sunshine were measured at Valencia; lesser amounts at a few other stations. A very quiet type of conditions was resumed.

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

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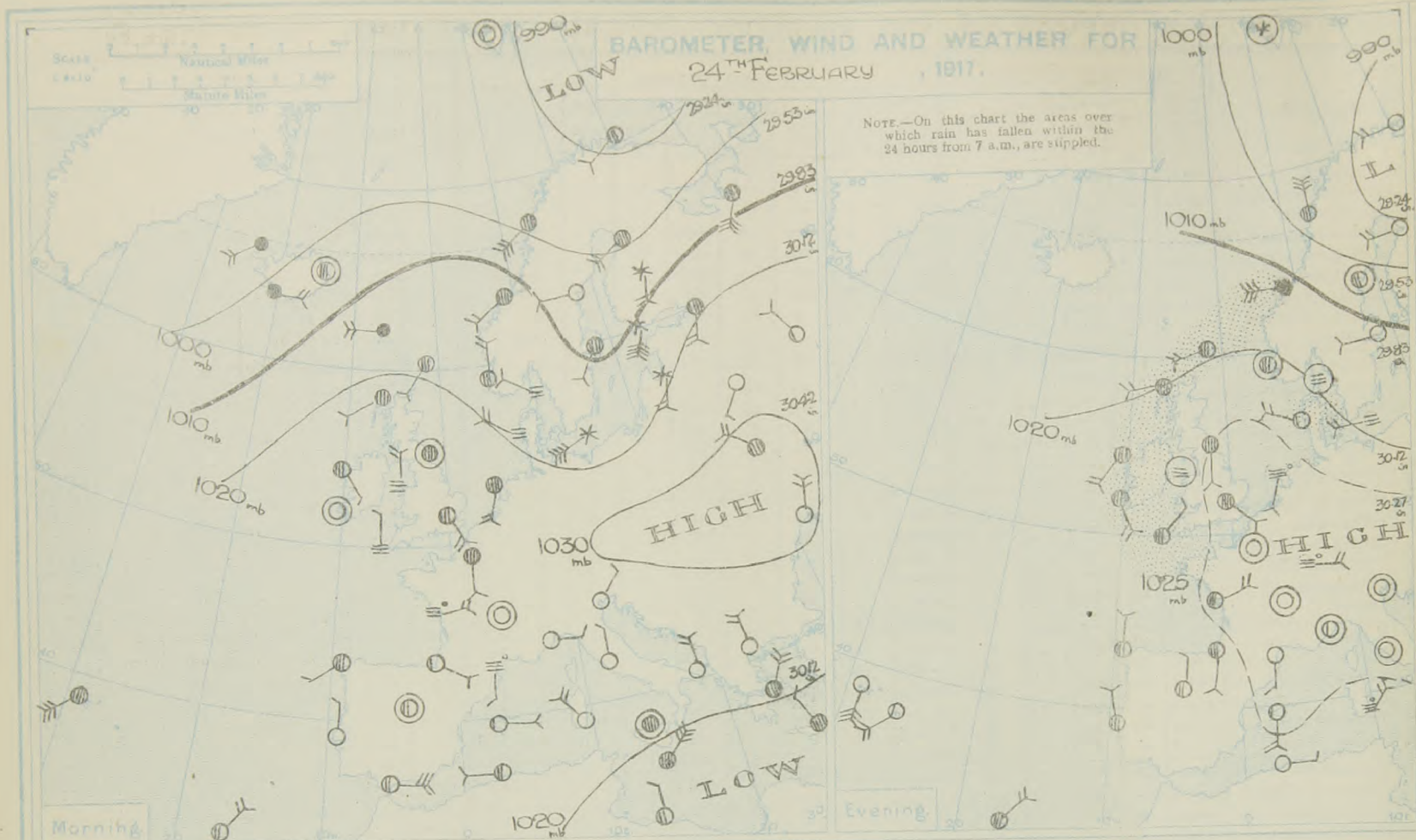


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 56 Sunday 25th February

STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.					Sun- shine for Yester- day. Hours.	
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer.		Temp.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		WEATHER.				
			Dir.	Force 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.		
BRITISH ISLANDS.	Lerwick ...	1019.7	41	WSW	3	c	1009.6	-4	41	+1	SSW	4	-	om	3	1	45	40	cp	c	op	*
	Deerness (Orkney) ...	1021.0	40	SW	1	o	1011.5	*	41	+1	SW	4	-	c	3	1	43	40	o	o	opc	0.0
	Stornoway ...	1020.0	43	WSW	4	o	1011.4	-2	44	+3	WNW	5	-	oq	4	1	44	40	o	o.c.o	oc.opq	0.1
	Castlebay (Barra Isd.) ...	1021.0	45	SSW	4	o	1014.9	-1	46	+4	WSW	4	-	o	4	0.2	47	42	o	o	op	0.0
	Glasgow ...	1023.6	42	-	o	og	1017.4	-4	41	+1	SSW	4	-	omr	*	0.1	44	39	om	omg	omdp	0.0
	Eskdalemuir ...	1024.6	39	SSW	1	o	1019.4	-3	38	o	SW	4	-	afe	*	0.1	43	37	od.a.b	o	o.ome	0.0
	Malin Head ...	1022.3	42	SW	2	cv	1017.0	-2	43	+1	SW	4	W	bp	3	-	45	40	ov	c.b	og	0.0
	Blacksod Point ...	1021.9	44	SSW	3	om	1019.7	-1	44	+2	SW	3	SW	comp	3	1	46	40	bc	bc	om.cmp	*
	Valencia ...	1024.1	44	SSE	3	o	1024.1	o	46	+8	W	1	-	o	3	4	49	36	bc.c.o	od.o	o.do	1.0
	Roche's Point ...	1025.1	45	SSE	2	o	1024.7	*	44	+6	-	o	-	fp	1	1	49	38	c.bc.b	b.bc.o	afd	*
	Birr Castle ...	1024.3	45	SW	1	o	1021.8	*	45	+4	SW	1	-	o	*	1	46	40	o	o	or.o	0.0
	Donaghadee ...	1023.2	43	SSW	2	om	1018.7	-2	42	o	SW	2	-	ogmp	2	1	44	40	cm	cm	ogmp	*
	Liverpool (Bidston) ...	1024.6	44	SE	1	o	1022.1	-2	40	o	SE	1	SE	o	1	-	45	39	om	om	o	0.0
	Holyhead ...	1024.0	43	-	o	fe	1021.1	-3	42	o	SW	3	-	ef	2	Trace	44	40	fe	fe	fec	0.0
	Pembroke (St. Ann's) ...	1023.9	43	W	1	f	1023.9	-2	42	+2	SW	2	-	c	1	1	47	42	bf	cf	of.be	1.6
NORTHERN EUROPE.	Scilly (St. Mary's) ...	1024.0	45	NE	1	c	1026.7	+1	45	+4	W	1	W	om	3	0.2	48	41	fe	fec	c.o	2.0
	Falmouth ...	1023.9	43	N	1	af	1024.8	-	38	-1	NW	2	-	b	*	-	47	37	oem.o.c	c.z.af	fc.bm	0.3
	Jersey (St. Aubin) ...	1024.7	43	S	3	or	1026.4	*	41	o	W	3	-	afe	2	10	44	39	ormfd	orf	afd	0.0
	Portland Bill ...	1023.2	44	SW	2	f	1024.0	o	40	-1	S	3	-	fd	3	1	44	39	o	afd	fd	*
	Dungeness ...	1026.1	40	WSW	3	o	1026.1	-1	36	-2	SW	4	-	o	4	-	43	36	om.be	bc.o	o.om	*
	Dover ...	1027.3	39	S	3	c	1026.6	-1	35	-3	S	3	-	f	2	-	41	34	pro.c	c	cf	0.0
	Wick ...	1021.2	42	SSW	1	o	1012.1	-4	40	+2	WSW	2	-	o	0	-	44	35	bcm	bc.om	bc.ong	*
	Nairn ...	1021.2	42	-	o	og	1013.5	*	43	+8	W	3	-	ou	2	-	44	33	c.bc	cgo	ogq	1.1
	Aberdeen ...	1022.7	40	SSW	2	bc	1015.3	-3	40	+3	SW	2	W	bc	2	-	45	37	bc.c.o	o.c.b	bc.o.bc	1.9
	Leith ...	1022.9	44	SW	2	o	1017.3	-2	43	+1	SW	2	SW	c	2	-	45	40	om.og	o	o.og.c	*
	Tynemouth ...	1026.0	43	S	2	om	1020.4	-2	41	-1	SW	2	-	om	3	-	45	40	c	cm	om	*
	Spurn Head ...	1025.2	41	E	1	f	1023.6	-1	39	-3	SW	2	-	om	3	0.2	42	37	f	f	om	0.0
	Yarmouth ...	1025.7	39	SSW	2	cf	1024.6	-2	40	+2	SW	2	-	om	2	-	45	36	of	of.bcf	om	1.2
	Clacton-on-Sea ...	1025.9	39	SSE	1	o	1025.3	-2	38	+1	W	2	-	o	1	-	40	36	c.ogm	ogm	ogm	0.0
	Nottingham ...	1025.1	45	ENE	1	o	1023.1	*	42	+1	SW	2	SW	o	*	-	48	40	om	o.c	o.c	0.1
Benson (Oxon.) ...	1024.6	42	SE	1	b	1023.1	-1	42	+1	S	3	-	omd	*	1	46	40	o	bc	omd	*	
Sth Farnborough ...	1024.4	43	SSW	2	o	1023.9	-2	40	-1	SSE	2	-	omd	*	1	47	40	d.o.c.m	om	orm	0.3	
London (Kew Obsy.) ...	1025.9	44	SE	2	om	1024.5	-2	41	o	SSE	2	-	omd	*	0.4	44	41	bm.om.o	o.bm	omd	0.1	
FRANCE, &c.	Spitsbergen ...	999.3	5	-	o	s	1002.7	+1	1	o	-	o	*	o	*	*	5	-8				
	Vardö ...	985.1	25	W	3	b	998.4	+8	19	+3	NE	4	-	s	4	*	28	16				
	Bodö ...	998.9	28	N	6	c	1006.1	o	34	+2	N	3	-	c	2	-	36	23				
	Christiansund ...	1014.0	39	W	6	r	1010.1	-3	39	+2	W	5	-	c	4	1	39	36				
	Skudesnaes ...	1020.2	39	-	o	c	1016.0	-	37	o	-	o	-	o	1	-	43	36				
	Færder (X'lantia Fjord) ...	1015.7	27	-	o	f	1014.4	+1	28	-2	SE	2	-	f	1	-	30	25				
	The Scaw (Skagen) ...	1017.1	34	-	o	f	1015.4	o	34	-2	W	2	-	bc	2	-	37	25				
	Blaavands Huk ...	1021.5	36	WNW	3	b	1021.7	-1	36	+2	WNW	3	-	o	3	-	36	32				
	Copenhagen ...	1018.1	36	WNW	2	f	1018.3	+1	34	+2	WNW	3	-	bc	*	1	36	32				
	Bornholm ...	1016.7	34	W	3	f	1015.9	o	32	+2	WNW	6	-	m	1	2	34	28				
	The Helder ...	1026.1	36	SW	2	m	1025.5	-2	36	o	SSW	2	-	m	1	-	36	36				
	C. Gris Nez ...	1026.4	37	SSW	1	c	1026.0	+1	32	-5	S	2	*	f	2	-	45	32				
	La Hève ...	1024.8	40	E	3	m	1026.4	*	34	-4	SSE	1	*	m	1	-	48	32				
	Brest (St. Mathieu) ...	1024.6	46	SSW	4	f	1027.4	+1	44	-1	NW	2	*	c	2	3	48	41				
	Rochefort (Ile d'Aix) ...	1025.6	45	ENE	3	c	1027.0	o	36	+2	ENE	2	*	bc	*	-	50	32				
Biarritz ...	1022.4	57	S	2	b	1025.6	o	48	+9	S	1	*	b	1	F	63	39					
Paris ...	1028.0	36	S	1	b	1028.2	+1	23	-11	-	o	-	f	*	-	43	25					
Belfort ...	1028.7	39	E	3	m	1031.5	*	26	-	E	3	*	f	*	-	48	24					
Lyons ...	1027.8	43	-	o	b	1029.3	*	30	-3	-	o	*	b	*	-	49	29					
Nice ...	1026.7	43	-	o	b	1026.3	o	39	-1	-	o	*	b	2	-	54	36					
Perpignan ...	1025.3	46	S	1	b	1027.0	o	36	o	WSW	1	-	b	*	-	57	36					
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
SOUTHERN STATIONS.	Corunna ...	1022.7	54	N	2	c	1027.7	+2	41	-2	-	o	-	b	1	-	55	39				
	Madrid ...	1022.7	52	N	1	bc	1026.9	o	41	+2	NE	1	-	bc	*	?	52	36				
	Lisbon ...	1021.2	55	NW	2	c	1022.0	+1	46	-2	NNE	2	-	bc	5	-	59	46				
	Azores (Horta) ...	1022.7	*	S	6	b	1021.3	o	57	o	SSE	7	*	o	4	-	63	57				
	Madeira ...	1022.4	59	NE	3	e	1022.0	-	54	o	N	2	-	o	2	-	61	54				
	Gibraltar ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
	Malta ...	*	*	*	*	*	1023.5	+1	54	o	NE	6	-	o	5	-	55	52				
	Limassol ...	*	*	*	*	*	1017.5	+1	52	-3	W	3	-	bc	4	-	64	46				
	Alexandria ...	1017.5	61	NE	2	c	1019.5	+1	59	-2	NE	2	N	b	1	-	72	54				
	Cairo (Helwan) ...	1015.9	64	N	3	b	1017.6	+3	57	+5	NE	2										

## RAINFALL. Equivalents of Millimetres in Inches.





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

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

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

No Warnings Issued.

Western Channel and Bay 11

Moderate or fresh winds between South-West and West;  
cloudy, occasional rain; moderate temperature.

Light or moderate winds between South-west and West;  
cloudy, occasional light rain; some mist or fog;  
moderate temperature.

Fresh Westerly winds, moderating later; cloudy, showery;  
moderate temperature.

Moderate winds between South-West and West, decreasing  
later; cloudy, showery; moderate temperature.

Light variable or Southerly winds; smooth sea; fair.

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director.

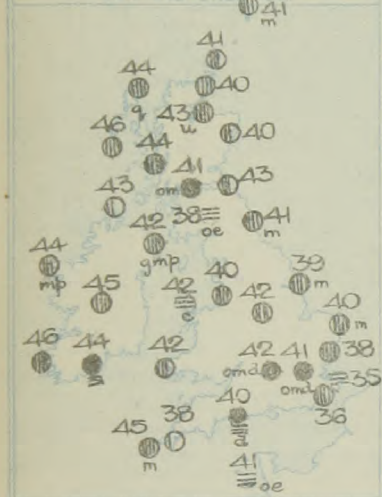


# SYNOPTIC CHART FOR THE MORNING OF Sunday, 25<sup>th</sup> FEBRUARY, 1917.

## GENERAL CONDITIONS.

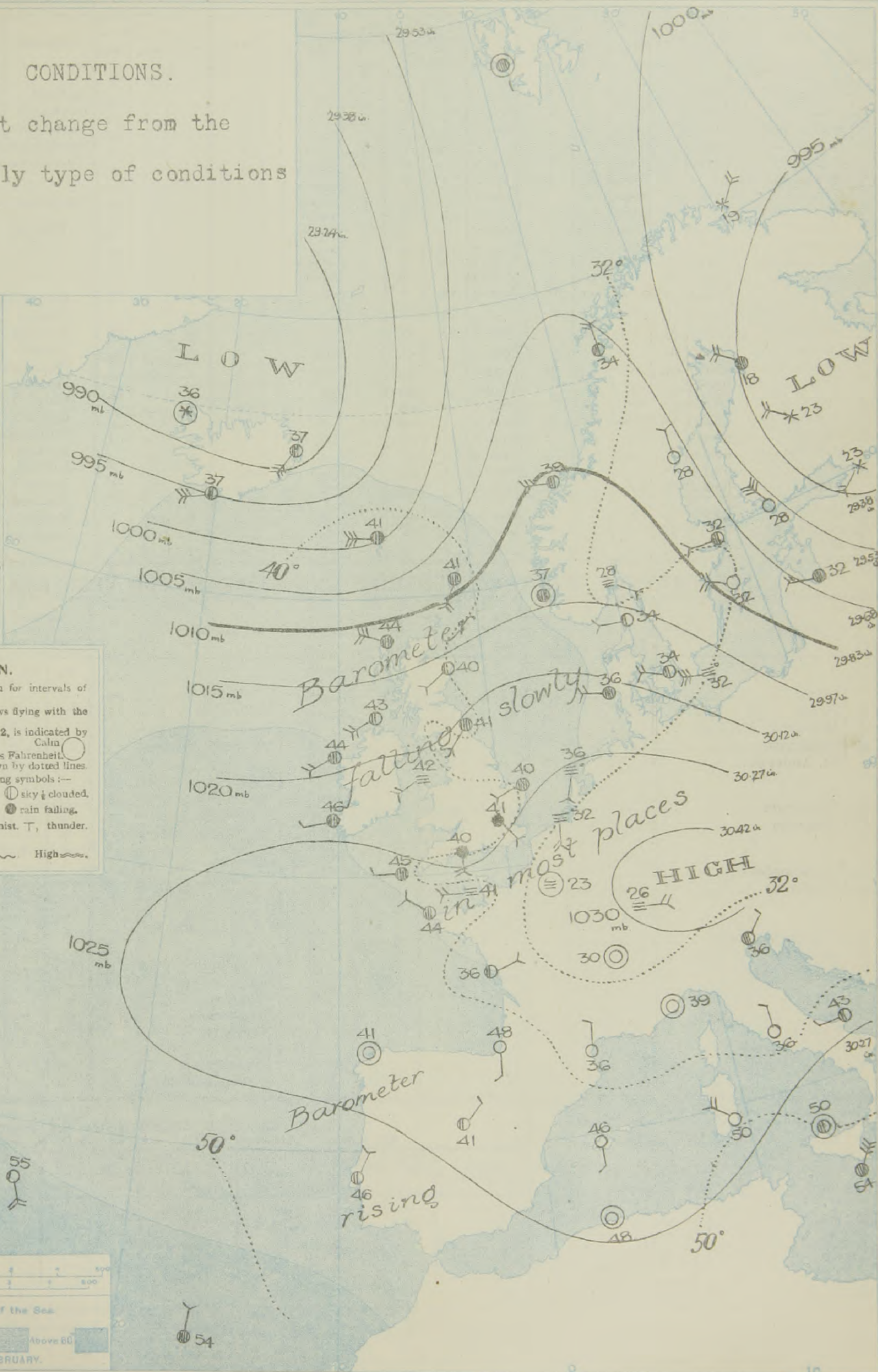
No great change from the present Westerly type of conditions is expected.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

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





STATIONS.	PREVIOUS EVENING.						MORNING.						PAST 24 HOURS.			MORNING.								
	Barom. Milli- bars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Weather.	Rain- fall, Milli- metres.	Temp.		ICELAND.	Barom. Milli- bars at M.S.L.	Temp.		Wind.		Weather.		
			Dirac.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dirac.	Force 0-12.			Max.	Min.			Dry Bulb.	Change in 24 hours.	Dirac.	Force 0-12.			
RUSSIA 7 a.m. and 9 p.m. Local time.		° F.						° F.						° F.	° F.									
Archangel ...	1016.7	-13	S.W.	3	b	1006.6	-12	-2	SW	6	0	-	-	*	-23	Isafjord ...	996.4	43	+9	SW	4	Y		
Gorki ...	1026.4	-6	N	1	b	1028.7	-	-20	SW	1	b	-	-	*	-11	Reykjavik	997.7	41	+5	SSE	4	Y		
Velieki Luki ...	1030.4	-9	W	2	b	1029.3	*	-17	SSE	1	b	-	-	*	-11	Vestmanna	1000.4	43	+7	E	3	T		
Hangö ...	1025.0	14	WSW	4	s	1011.3	-8	25	SSW	8	s	-	-	*	-11	Seydisfjord	1004.7	37	+3	-	0	C		
Riga ...	1031.1	-2	SSW	1	b	1022.3	-6	7	SSW	3	s	1	-	*	-2	Thorshavn	1015.8	40	-3	W	4	Y		
Petrograd ...	1027.8	-6	WNW	2	b	1020.0	-6	1	NW	3	0	-	-	1	-17									
Moscow ...	1024.0	-11	NNW	3	b	1026.1	+1	-11	NNW	2	b	-	-	*	-17									
Kiev ...	1026.7	+5	NNW	4	0	1031.9	+4	0	NNW	2	0	-	-	*	-2									
Kharkov ...	1019.4	1	NW	2	b	1025.7	+4	-4	NNW	2	s	-	-	*	-13									
Kishinev ...	1025.7	10	NNW	4	b	1032.9	+3	-4	NW	2	b	-	-	*	-6									
Elisabetgrad ...	1023.5	5	NNW	3	b	1029.9	+5	-8	NW	3	b	1	-	*	-6									
Nicolaiev ...	1022.9	13	NNW	2	s	1029.9	*	-4	NNW	3	b	1	-	*	-4									
Odessa ...	1022.6	18	NNW	4	b	1031.9	+5	0	NE	4	b	-	-	*	-2									
Tarkhankout ...	1022.6	9	NNW	5	b		*							*										
Soukhom ...	1015.5	37	-	0	0	1015.5	+1	32	-	0	0	25	*	32										
MEDITERRANEAN.																								
Venice ...	1021.3	41	-	0	b	1027.8	*	34	NE	1	b	-	48	34										
Pesaro ...	1027.7	46	N	2	b	1028.7	*	30	SW	1	b	-	50	28										
Rome ...	1022.9	45	N	2	b	1025.4	*	37	N	1	b	-	55	36										
Viesti ...	1024.2	43	NW	2	b	1025.5	*	43	N	2	b	-	46	41										
Brindisi ...	1020.9	50	NNE	2	b	1021.7	*</																	

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine
	Night. 12 h.-9 h.	Day. 9 h.-12 h.	Max.	Min.	Forenoon.	Afternoon.	
Scotland.	Mm.	Mm.	F.	F.			Hr.
{ Oban ... ..	-	Trace	43	42	od	od	0.0
{ Banff ... ..	-	-	49	33	c. bc	bc. c.	2.9
{ Montrose ... ..	*	*					
{ Carnoustie ... ..	*	*					
{ St. Andrews ... ..	*	*					
Eng. N.E.							
{ Harrogate ... ..	-	-	41	39	om	om	0.0
{ Skegness ... ..	*	*	42	37	ofe	af	0.0
Eng. N.W.							
{ Morecambe ... ..	Trace	-	44	38	om	o	0.0
{ Southport ... ..	Trace	-	44	38	om	o	0.0
Midlands.							
{ Leamington Spa ... ..							
{ Malvern ... ..							
{ Ross-on-Wye ... ..	1	1	46	40	omr	cm	0.0
Wales.							
{ Rhyl ... ..	*	*					
{ Colwyn Bay ... ..	*	*					
{ Llandudno ... ..	*	*					
{ Aberystwyth ... ..	*	*	42	40	OT. C.	C.C.O.	1.1
{ Tenby ... ..	*	*					
England, E.							
{ Lowestoft ... ..	-	-	41	34	om	om	0.0
{ Felixstowe ... ..	-	-	41	34	om	om	0.0
{ Walton-on-Naze ... ..	1	-	42	35	o	oz	0.5
{ Southend-on-Sea ... ..	1	-	42	35	o	oz	0.5
England, S.E.							
{ Margate ... ..	-	-	45	35	o	o	0.0
{ Ramsgate ... ..	-	-	45	35	o	o	0.0
{ Hastings ... ..	4	1	40	38	f r	o	0.0
{ Eastbourne ... ..	9	1	41	40	o	c	0.0
{ Seaford ... ..	*	*					
{ Brighton ... ..	*	*					
{ Worthing ... ..	8	2	42	40	d	d	0.0
{ Littlehampton ... ..	8	Trace	41	37	m	r	0.0
{ Bognor ... ..	*	*					
{ Bournemouth ... ..	5	1	45	39	f	f	0.0
England, S.W.							
{ Weymouth ... ..	*	*					
{ Torquay ... ..	-	-	47	41	o	o	0.0
{ Paignton ... ..	*	*	47	42	o	om	0.0
{ Penzance ... ..	5	-	49	37	of	c.o	1.0
{ Newquay ... ..	5	-	49	37	of	c.o	1.0
{ Bude ... ..	*	*					
{ Ilfracombe ... ..	*	*					
{ Weston-s-Mare ... ..	*	*					

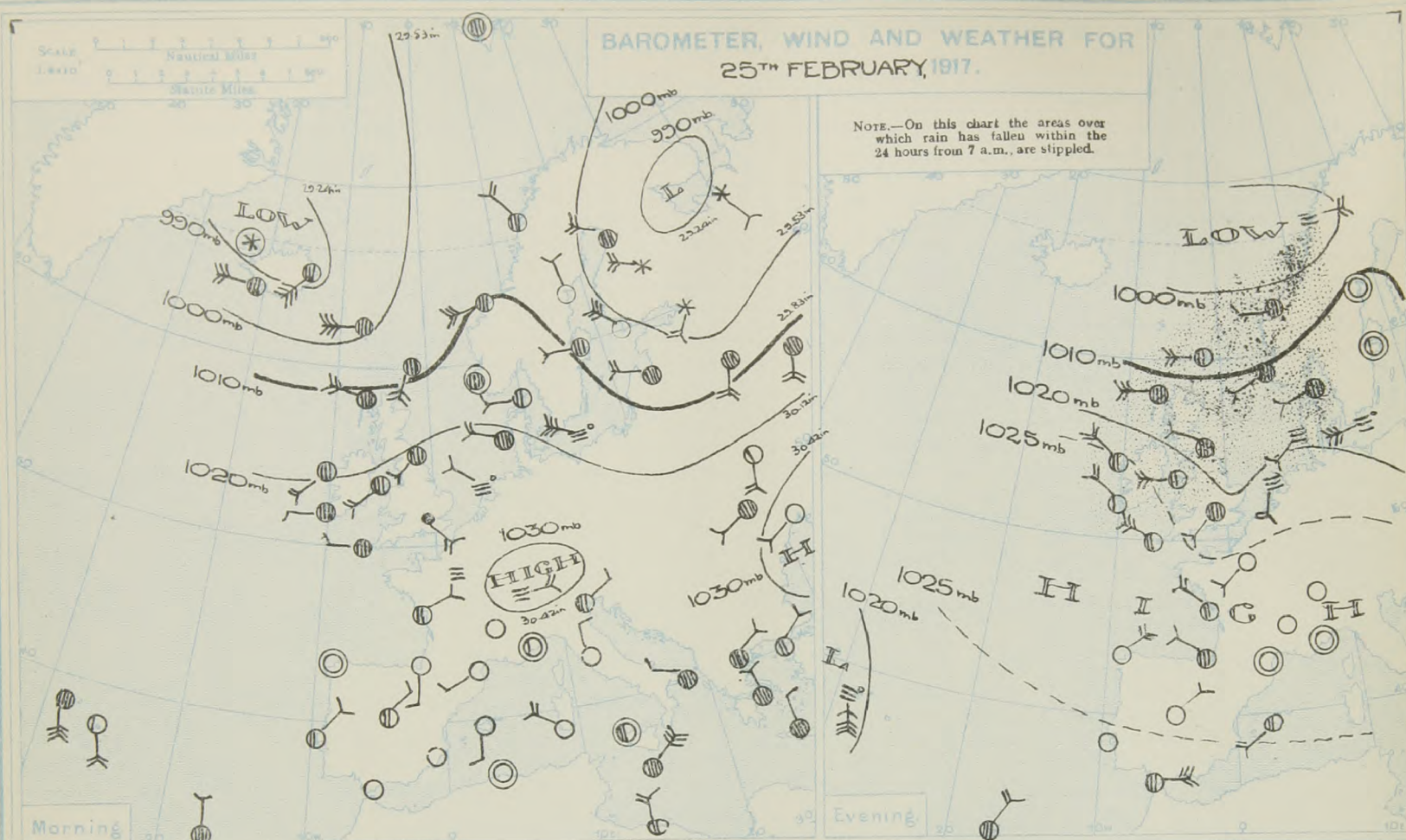
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STATIONS.	YESTERDAY EVENING					THIS MORNING										PAST 24 HOURS										Sun- shine for Yester- day. Hours.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 5 hours.	TEMP. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.								
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.						
Lerwick ...	1006.3	42	W	4	bc	1007.6	+4	41	0	NNW	5	-	og	4	5	46	38	om.c.	cm.bc.	bes.pq.	*					
Deerness (Orkney) ...	1010.5	41	W	5	b	1012.2	*	37	-4	WNW	5	-	ep	4	4	46	37	a.c.bc.	bc.b	b.bc.ep	3.0					
Stornoway ...	1013.9	42	W	5	opq	1019.1	+5	41	-3	WNW	4	-	eg	3	1	47	40	ep.bc	bc.opq	op.bea	4.0					
Castlebay (Barra Isd.) ...	1018.5	44	WNW	3	bc	1023.0	+3	44	-2	WNW	4	W	bc	4	1	47	42	a.c.b	bkp.bc.	bcp.bc	4.8					
Glasgow ...	1017.9	40	W	4	bc	1020.9	+3	41	0	W	3	NNW	c	*	4	44	38	omp	a.c.bep	b.bep	1.5					
Eskdalemuir ...	1018.6	38	WNW	3	b	1021.7	+1	38	0	WNW	5	NNW	bc	*	4	41	36	ofe.fd	od.a.c.b	b.bep	0.1					
Malin Head ...	1020.9	43	WNW	5	beq	1024.2	+2	43	0	WNW	4	W	bcq	5	2	46	39	bc.	bcq	bcq.p.	4.5					
Blackisd Point ...	1025.9	42	NNW	4	bcp	1029.3	+2	43	-1	NNW	4	NNW	egp	4	3	47	38	bcp	bcp	bcq.p.	*					
Valencia ...	1023.6	45	NNW	3	b	1032.6	+1	42	-4	-	0	NNW	o	4	1	50	40	op.c.bc	bc.b	b.b.c.p.	5.8					
Roche's Point ...	1027.0	45	NNW	4	b	1031.6	*	40	-4	NNW	2	-	b	2	1	49	38	fd.op	c.c.b	b	*					
Bur Castle ...	1026.1	41	W	1	c	1030.1	*	38	-7	W	1	-	o	*	2	48	36	op	ep	co.	3.3					
Donaghadee ...	1020.4	43	WNW	4	bcq	1024.1	+1	41	-1	WNW	4	-	cmq	3	1	47	38	ogmqp	bcq	bcmq.p	*					
Liverpool (Bidston) ...	1021.7	39	W	2	r	1025.1	+1	39	-1	WSW	5	W	c	4	2	45	38	b.or.	ap	oc	1.6					
Holyhead ...	1022.4	43	W	4	bc	1026.5	+1	41	-1	WNW	5	-	c	4	3	46	41	c.orm.c	c.op.bc	b.b.c.o	0.4					
Pembroke (St. Ann's) ...	1025.0	42	SW	2	b	1029.2	+3	43	+1	WNW	2	NNW	c	2	3	45	40	c.of	of.bc	bc.c	0.3					
Scilly (St. Mary's) ...	1026.5	45	NNW	5	bc	1030.9	+2	43	-2	NNW	4	-	b	4	1	49	41	ofe	fe.bc	bc.b	0.9					
Falmouth ...	1025.3	45	NNW	3	bz	1030.4	-	38	0	NNW	3	-	b	*	Trace	49	38	a.be.od	ad.opc	bz.b	0.4					
Jersey (St. Aubin) ...	1025.4	45	W	3	og	1028.0	*	41	0	NNW	2	-	b	2	2	49	40	of.aeo	a.b.o.g	ogp.b	2.3					
Portland Bill ...	1023.1	42	SW	2	or	1027.3	+2	39	-1	WNW	2	-	b	2	0.3	44	37	fe.bc	bc.c.o	or.bc.b	*					
Dungeness ...	1022.2	40	SW	4	c	1024.2	+2	34	-2	NNW	1	-	b	1	5	43	34	om.c	c.c.	er.bxz	*					
Dover ...	1023.3	40	SW	2	c	1025.5	+2	36	+1	NNW	2	-	b	2	0.3	42	35	fe	cm	cm.b.c.b	0.2					
Wick ...	1012.3	39	W	2	b	1013.8	+3	39	-1	WNW	4	-	bc	2	3	49	37	ogp.cm	emb	cmp	*					
Nairn ...	1014.5	40	W	1	bc	1018.0	*	40	-3	W	4	-	og	3	2	48	38	ep	c.bc.	bcq.p	2.3					
Aberdeen ...	1014.6	43	WSW	2	b	1016.6	+3	40	0	W	4	-	bc	2	0.3	51	39	bc.o	a.c.b	b.bep	1.9					
Leith ...	1016.5	43	W	2	b	1019.0	+1	41	-2	WSW	2	W	bc	3	0.3	47	39	c.op.c	c.b.c.b	b.bu.be	*					
Tynemouth ...	1017.0	43	WNW	2	omp	1019.3	0	40	-1	WNW	3	-	b	3	1	46	37	bep	omp	b	*					
Spurn Head ...	1017.9	42	WSW	2	o	1021.3	0	38	-1	WNW	5	-	bcqm	4	Trace	46	34	bcqm	om	om	1.1					
Yarmouth ...	1020.0	41	SSW	2	c	1022.3	+2	35	-5	NNW	2	-	bm	2	-	45	34	of	of	omd.bc.	0.0					
Clacton-on-Sea ...	1021.5	34	W	2	c	1023.9	+2	34	-4	W	2	-	bc	1	-	42	34	om	a.cm.	c.obx	0.2					
Nottingham ...	1019.9	45	W	2	d	1024.1	*	40	-2	WNW	3	-	bm	*	0.2	48	34	op.	c.od	a.cb	0.2					
Benson (Oxon.) ...	1021.8	44	SW	1	o	1025.9	+2	30	-12	-	0	-	bx	*	1	45	29	o	o	a.b	*					
Sth Farnborough ...	43	-	-	-	r	1025.9	+2	31	-4	W	2	-	bx	*	1	48	31	b.d.m.o	a.be.od	a.bx	0.7					
London (Kew Obsy.) ...	1022.5	45	SW	3	od	1026.1	+1	35	-6	W	2	-	b	*	1	45	34	omd.omr	oco.od	od.m.bx	0.1					
Spitsbergen ...												*	*	*	*											
Vardö ...													*	*	*											
Bodö ...	997.1	32	E	4	m	994.3	-1	37	+3	SW	4	-	o	2	7	37	28									
Christiansund ...	1003.0	41	W	1	o	999.7	0	37	-2	W	3	NE	o	-	4	43	36									
Skudesnaes ...	1009.6	41	SW	2	o	1004.7	-2	39	+2	NNW	4	-	o	2	2	41	37									
Færder (Xlantia Fjord) ...	1010.3	28	W	1	o	1003.5	-2	32	+4	SW	4	-	o	3	2	32	28									
The Scaw (Skagen) ...	1015.8	37	WSW	2	o	1006.3	-3	37	+3	WSW	3	-	o	3	2	41	34									
Blaavands Huk ...	1018.7	34	SW	2	o	1012.7	-1	36	0	WNW	3	-	o	2	4	36	32									
Copenhagen ...	1019.1	37	W	3	o	1011.8	-3	36	+2	SW	3	-	o	2	1	37	34									
Bornholm ...	1017.5	34	W	6	m	1013.0	-4	34	+2	WSW	6	-	o	1	Trace	36	30									
The Helder ...	1021.1	34	S	3	m	1019.5	+2	36	0	SW	2	-	c	1	1	36	34									
C. Gris Nez ...	1022.4	39	SW	4	b	1023.8	+2	37	+5	WNW	2	*	b	2	1	39	36									
La Hève ...	1023.3	42	WSW	2	o	1025.7	*	38	+4	N	4	*	bc	3	2	48	37									
Brest (St. Mathieu) ...	1027.1	46	WSW	3	m	1030.9	+2	43	-1	NNE	3	*	b	2	-	50	41									
Rochefort (Ile d'Aix) ...	1027.4	46	NNW	3	bc	1025.9	+1	43	+7	NNW	2	*	o	*	6	54	41									
Biarritz ...	1027.0	51	NNW	2	c	1026.0	-1	49	+1	SSW	1	*	o	-	-	59	48									
Paris ...	1025.1	41	-	0	b	1025.1	0	36	+3	-	0	-	o	*	-	50	25									
Belfort ...	1025.7	41	W	2	m	1027.5	*	30	+4	-	0	*	c	*	-	48	28									
Lyons ...	1028.6	45	-	0	b	1026.9	*	32	+2	-	0	*	bc	*	-	54	30									
Nice ...	1025.7	45	-	0	b	1024.7	0	40	+1	-	0	*	b	*	-	55	36									
Perpignan ...	1026.6	46	-	0	b	1026.0	+1	39	+3	W	1	-	b	*	-	55	32									
Sanguinaire ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Corunna ...	1027.9	55	NE	4	b	1029.5	+1	48	+7	ENE	2	-	c	1	-	57	46									
Madrid ...	1022.9	52	ENE	2	o	1026.9	+3	39	-2	NE	2	-	o	*	-	52	39									
Lisbon ...	1021.7	57	NNE	4	bc	1021.9	0	48	+2	NNE	4	-	b	5	-	61	48									
Azores (Horta) ...	1013.9	*	SE	8	m	1020.7	+1	55	-2	SSW	4	*	o	3	4	63	55									
Madeira ...	1020.4	60	NNE	3	c	1021.5	+2	54	0	NE	3	-	o	3	Trace	61	54									
Gibraltar ...	1020.6	56	E	5	c	1019.6	*	56	-	E	6	*	o	4	-	67	55									
Malta ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Limassol ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Alexandria ...	1019.7	57	NE	2	b	10																				





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 Coast.	South Coast.
North Coast.	North Coast.

NO WARNINGS  
ISSUED

Western Channel and Bay 11

Fresh Westerly or North-Westerly winds, moderating slowly: fair weather, some showers. Rather cool.

Moderate Westerly or North-Westerly winds. Fair weather. Night frosts.

Moderate North-Westerly winds, decreasing and backing West or South-West later; fair to fine; normal temperature.

Light winds, backing South-West or South. Fair; normal temperature.

Light variable winds. Slight sea. Fair.

FURTHER OUTLOOK.

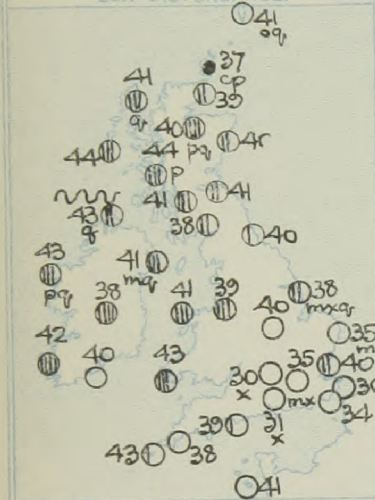


# SYNOPTIC CHART FOR THE MORNING OF MONDAY, 26<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE

Further depressions on the Atlantic are likely to cause a backing of wind on our Western Coasts by tomorrow.

### 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. K, thunderstorm.

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

H I G H

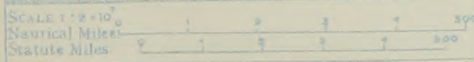
Barometer

Rising

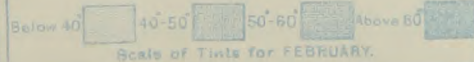
Barometer falling

LOW

LOW



Normal Temperature of the Sea.



Scale of Tints for FEBRUARY.



## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.				MORNING.						
	BAROM. Milli- bars at M.S.L.	WIND.			Weather.	BAROMETER.		TEMP.		WIND.		Weather.	Rain- fall. Milli- metres.	TEMP.		ICELAND.	BAROM. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.	
		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.			Temp.	Dry Bulb.	Change in 24 hours.	Dir.		Force 0-12.
RUSSIA 7 a.m. and 9 p.m. Local Time.																							
Archangel	992.7	10	SW	6	S	990.3	+1	10	+12	S	2	S	-	*	*	Isafjord	988.2	36	-7	S	0	S	
Gorki	1023.1	-4	NW	2	b	1010.6	-1	5	+25	WNW	5	S	-	*	-31	Reykjavik	997.1	36	-5	SW	7	0	
Velieki Luki	1016.3	3	S	4	0	1003.3	*	16	+33	SSW	4	0	2	*	3	Vestmanna	995.7	37	-6	W	5	c	
Hangö	1006.4	23	-	0	bc	1001.0	+1	28	+3	NNW	6	b	29	*	12	Seydisfjord	988.7	37	0	SW	6	c	
Riga	1011.9	19	SSW	2	0	1004.7	-6	32	+25	WNW	3	0	4	*	7	Thorshavn	999.9	41	+1	W	6	0	
Petrograd	1004.6	14	SW	3	S	991.7	-9	23	+22	SW	3	S	4	23	1								
Moscow	1022.7	-2	WSW	3	b	1012.4	-8	0	+11	SSW	4	0	-	*	-6								
Kiev	1031.5	-2	SW	1	b	1025.0	-5	-2	-2	SSW	3	b	-	*	-8								
Kharkov	1032.5	-15	NW	2	b	1031.4	-1	-17	-13	SW	1	b	-	*	-17								
Kishinev	1032.3	-2	-	0	b	1026.0	-5	-4	0	WSW	2	0	-	*	-6								
Elisabetgrad	1023.7	-9	NNE	1	b	1021.4	-1	-13	-5	NE	2	c	-	*	-20								
Nicolaiev	1033.9	1	-	0	b	1031.5	*	-4	0	WSW	2	b	-	*	-8								
Odessa	1034.4	5	NNE	2	b	1031.5	-4	3	+3	-	0	b	-	*	1								
Tarkhankout...	1033.6	16	N	3	0		*						-	*									
Soukhom	1022.0	30	NNE	4	bc	1026.7	+3	23	-9	NE	2	bc	-	*	23								
MEDITERRANEAN.																							
Venice	1025.4	43	-	0	b	1027.3	*	36	+2	ENE	1	c	-	46	32								
Pesaro	1026.9	36	SW	1	b	1028.3	*	30	0	SW	1	b	-	46	28								
Rome	1025.8	45	WSW	7	b	1026.5	*	36	-1	N	1	b	-	54	34								
Viesti	1025.9	45	W	1	b	1025.4	*	43	0	W	1	bc	-	50	41								
Brindisi	1025.9	45	WSW	1	b	1024.6	*	41	-7	NW	1	0	-	52	41								
Cagliari	1023.3	60	NE	3	m	1026.3	*	50	+2	NW	3	b	-	63	46								
Palermo						1026.2	*	50	+2	-	0	bc	-	57	41								
Tripoli						1022.6	*	64	0	N	3	bc	11	68	59								
Algiers	1024.6	54	E	1	b	1025.1	+1	48	0	-	0	b	-	55	46								
SWEDEN.																							
Hernösand	1001.1	228	-	0	bc	1006.7	*	23	+9	N	2	b	*	*	*								
Stockholm	1010.9	32	W	2	b	1009.3	*	32	+4	W	2	c	*	*	*								
Wisby	1011.5	34	NW	4	b	1009.9	*	32	+4	NW	4	b	*	*	*								

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12h-6h.	Day. 6h-12h.	Max.	Min.	Forenoon.	Afternoon.			
	Mm.	Mm.	F.	F.					Mm.	Mm.	° F.	° F.				Hr.	
Scotland.	Oban ... ..	2	Trace	47	40	0	bc. b	1.9	England, E.	Lowestoft ... ..	-	-	42	36	om	om. bc	0.2
	Banff ... ..	-	-	49	33	c. bc. c	c. bc. b	1.7		Felixstowe ... ..	-	-	42	36	om	om. bc	0.2
	Montrose ... ..	-	-							Walton-on-Naze ... ..	-	-					
	Carnoustie ... ..	*	*							Southend-on-Sea ... ..	-	-					
	St. Andrews ... ..	-	-														
Eng. N.E.	Harrogate ... ..	-	Trace	44	36	o. c	ore	0.2	England, S.E.	Margate ... ..	-	-	47	35	0	c. bc	0.6
	Skegness ... ..	-	-	49	37	fo. c	c. o	0.7		Ramsgate ... ..	-	-	41	36	od. o	6	0.0
Eng. N.W.	Morecambe ... ..	-	-							Hastings ... ..	1	-	41	36	od. o	6	0.0
	Southport ... ..	-	2	43	38	o. c. or	or	0.3		Eastbourne ... ..	-	Trace	43	38	0	0	0.0
Midlands.	Leamington Spa ... ..	-	-							Seaford ... ..	*	*					
	Malvern ... ..	-	-							Brighton ... ..	-	-					
	Ross-on-Wye ... ..	-	-							Worthing ... ..	Trace	-	41	39	0	0	0.1
Wales.	Rhyl ... ..	-	3	46	39	c. bc	bc. o	0.0	England, S.W.	Littlehampton ... ..	2	-	41	39	0	bc	1.3
	Colwyn Bay ... ..	*	*	47	41	bc. p	bc. p	1.0		Bognor ... ..	*	*					
	Llandudno ... ..	*	*	45	40	c. o	cr	0.5		Bournemouth ... ..	6	-	49	40	0	c. o	1.8
	Aberystwyth ... ..	*	*	44	39	ro. o	o. c	0.0		Weymouth ... ..	*	*					
	Tenby ... ..	-	-							Torquay ... ..	-	Trace	49	40	c. bc	cp. o	3.5
									Paignton ... ..	*	*						
									Penzance ... ..	-	-						
									Newquay ... ..	1	1	49	39	bc. d	bc. d	0.0	
									Bude ... ..	-	-						
									Ilfracombe ... ..	-	-						
									Weston-s-Mare ... ..	-	-						

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

26th and 27th Feb. 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.49	12.6	5.23
	6.47	12.6	5.25
Greenwich	6.54	12.13	5.32
	6.53	12.13	5.33
Wick	7.18	12.25	5.32
	7.16	12.25	5.34
Valencia	7.37	12.54	6.12
	7.35	12.54	6.13

## NOTES ON YESTERDAY'S WEATHER.

5.8 hours of sunshine were measured at Valencia, and smaller amounts at other stations. Showers fell very generally. Temperature rose to about 50° in most districts.

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

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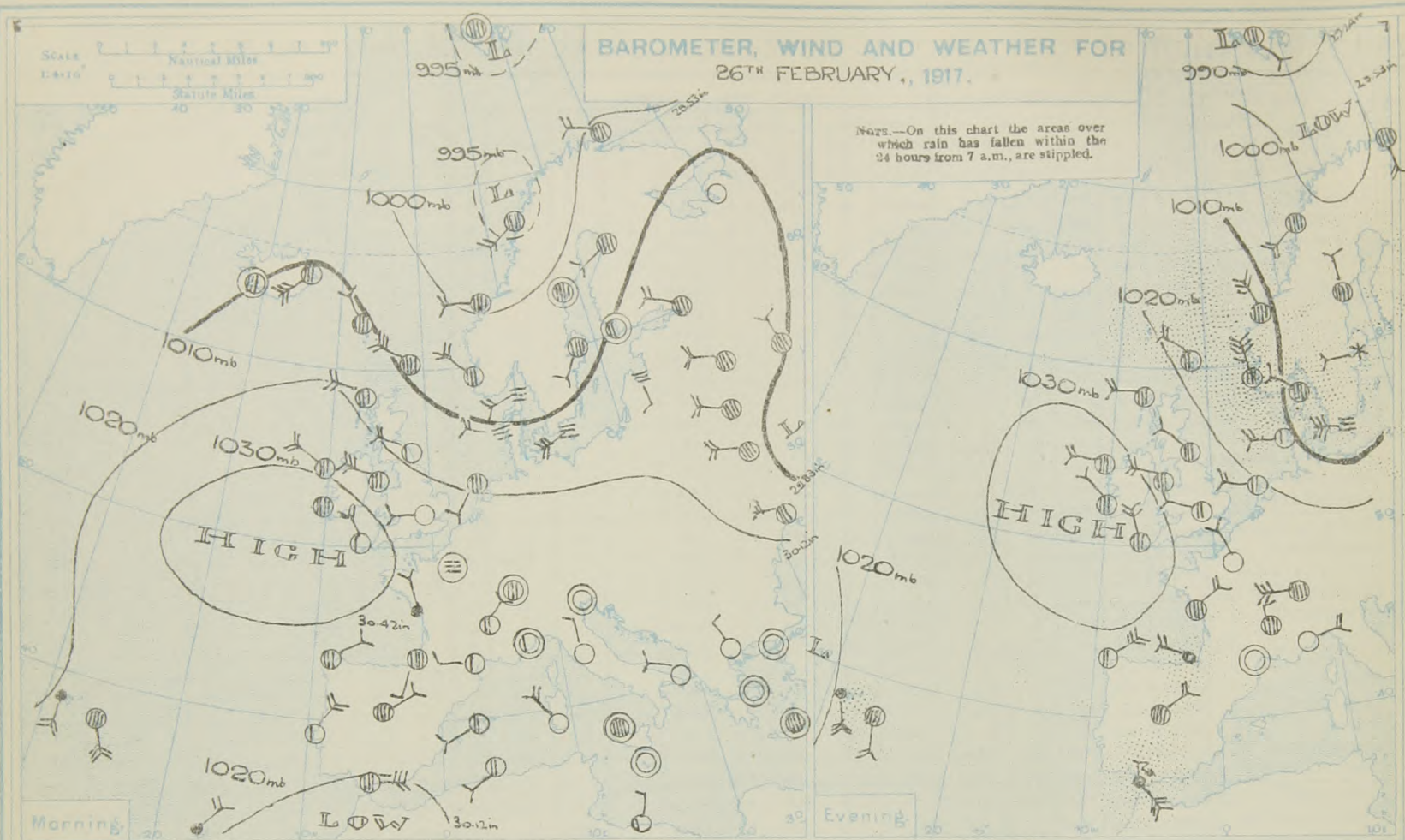


Tuesday  
27<sup>th</sup> February

Address in the  
and wrapper

† The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

Western Channel and Bay 11

South-Westerly or Southerly winds, increasing; fair, then dull, with some rain; milder.

Wind North-West to South-West, light or moderate; fair; temperature rising.

Same as 0 - 1.

Same as 2 - 5.

Same as 0 - 1.

South-Westerly and Southerly winds, light to fresh; cloudy; some rain later; milder.

North-West to South-West, light; sea slight or smooth; fair or cloudy.

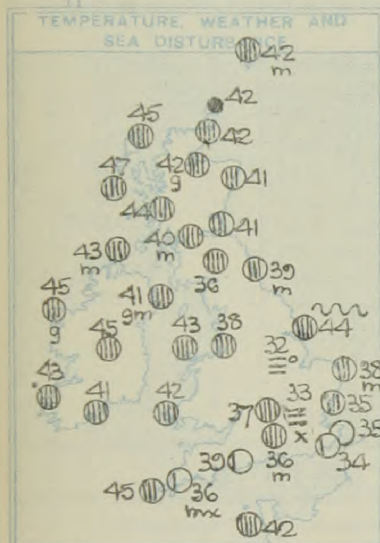
FURTHER OUTLOOK



# SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 27<sup>TH</sup> FEBRUARY, 1917.

## GENERAL INFERENCE

The Anticyclone will probably move East and South-East, while pressure decreases at a gradually increasing rate in the West and North-West of 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. thunder.  
 thunderstorm.

**SEA DISTURBANCE.**—Rough High

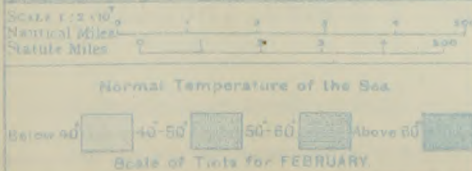
HIGH

Barometer

LOW

generally

LOW





## REPORTS FOR YESTERDAY.

STATIONS.	PREVIOUS EVENING.					MORNING.							PAST 24 HOURS.			MORNING						
	Barom. Milli- bars at M.S.L.	WIND.			Weather.	BAROMETER.		TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.		Weather.	
		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.			F	Change in 24 hours.	Dir.	Force 0-12.		
		F.					F.	F.					F	F			F					
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...																					
	Gorki ...	1000.4	21	W	3	0	1011.8	+1	16	+11	NW	4	0	12	*	-6						
	Veliki Luki ...	1002.6	23	NW	5	0	1015.5	*	10	-6	NW	2	0	1	*	10						
	Hangö ...	1012.6	19	+	0	b	1010.6	-3	25	-3	-	0	bc	-	*	10						
	Riga ...	?	23	N	2	bc	1015.4	0	12	-20	S	1	f	-	*	12						
	Petrograd ...	1007.3	7	WNW	1	b	1012.4	+3	23	0	WNW	3	0	3	27	Y						
	Moscow ...	1000.4	5	SSW	3	c	1010.3	+6	1	+1	N	2	0	13	*	1						
	Kiev ...	1007.4	?	W	5	S	1010.1	+4	21	+23	NW	4	0	2	*	-4						
	Kharkov ...	1010.3	12	SW	4	S	1002.4	+1	19	+36	WNW	3	S	1	*	-13						
	Kishinev ...														*							
MEDITERRANEAN.	Elisabetgrad ...	1027.1	16	WSW	5	S	1011.1	+4	18	+31	NW	4	b	1	*	-13						
	Nicolaiev ...	1019.3	19	SW	4	0	1012.6	*	28	+32	NW	3	c	1	*	-8						
	Odessa ...	1021.0	18	WSW	4	0	1015.3	-1	28	+25	NW	4	S	-	*	13						
	Tarkhankout ...	1022.1	34	SW	5	0		*							*							
	Soukhoum ...	1028.7	28	SE	0	b	1022.0	-6	27	+4	NE	1	c	-	*	?						
	Venice ...	1025.9	43	-	0	b	1024.7	*	34	-2	-	0	b	-	48	32						
	Pesaro ...	1027.5	36	ENE	3	b	1026.2	*	31	+1	SW	1	b	-	46	28						
	Rome ...	1026.1	48	NW	1	b	1026.1	*	37	+1	-	0	b	-	55	36						
	Viesti ...	1026.3	45	NNW	2	b	1025.0	*	46	+3	NW	1	b	-	52	41						
	Brindisi ...	1023.8	60	NNW	2	b	1023.0	*	43	+2	NW	2	b	3	52	41						
SWEDEN.	Cagliari ...	1025.9	61	NW	3	b	1025.0	*	48	-2	NNW	3	b	-	64	45						
	Palermo ...						1025.9	*	45	-5	-	0	0	-	59	39						
	Tripoli ...						1025.5	*	64	0	NNE	1	b	Trace	68	59						
	Algiers ...	1022.9	55	NE	2	b	1021.2	0	55	+7	SW	3	bc	-	61	48						
	Hernösand ...	1010.7	27	-	0	b	1001.0	*	30	+2	-	0	0	*	*	*						
	Stockholm ...	1013.1	39	-	0	b	1005.1	*	34	+2	SSW	2	0	*	*	*						
	Wisby ...	1013.3	30	WNW	2	b	1008.8	*	36	+4	WSW	4	0	*	*	*						
	Isafjord ...	1006.9	36	C	0	SSW	3	C														
	Reykjavik ...	1009.1	37	+	1	ESE	3	C														
	Vestmanna ...	1013.5	37	0	-	0	C															
Seydisfjord ...	1010.9	30	-7	SW	5	C																
Thorshavn ...	1011.8	35	-6	NNW	2	0																
Hours of Observation G.M.T.																						
															Morning.		Evening.					
															h.		h.					
British Isles ...															7		18					
France ...															7		18					
Norway ...															7		18					
Sweden ...															7		17					
Denmark ...															7		18					
Holland ...															7		18					
Italy ...															7		20					
Egypt ...															6		18					
Corunna... ..															7		16					
Madrid ...															8		16					
Lisbon ...															7		21					
Azores ...															8		17					
Madeira ...															7		21					
Malta ...															8		—					
Limassol ...															6		—					

## Hours of Observation G.M.T.

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

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine	STATIONS*	Rainfall.		TEMPERATURE.		WEATHER.		Sun-shine
	Night.	Day.	Max.	Min.	Forenoon.	Afternoon.			Night.	Day.	Max.	Min.	Forenoon.	Afternoon.	
	12h-9h.	9h-12h.	°F.	°F.					12h-9h.	9h-12h.	°F.	°F.			
Scotland.	Oban ...	1	48	42	bc	-	3.0	England, E.	Lowestoft ...	Trace	48	34	b, bc	bc, c, op	6.0
	Banff ...	Trace	46	39	bc	bc	5.1		Felixstowe ...	-	49	34	b, bc	bc, c	6.2
	Montrose ...	*	*	*	*	*	*		Walton-on-Naze ...	-	49	33	bc, b	c, o, c	5.3
	Carnoustie ...	*	*	51	37	b	c	5.8	Southend-on-Sea ...	-	49	33	bc, b	c, o, c	5.3
	St. Andrews ...	-	-	51	37	b	c	5.8	Margate ...	-	45	35	b	b, bc	6.2
Eng. N.E.	Harrogate ...	Trace	48	33	b	b	9.0	England, S.E.	Ramsgate ...	2	49	36	or, bc, b	bc, o	6.7
	Skegness ...	-	49	32	bx	bc	7.6		Hastings ...	2	50	37	bm	bm	6.5
	Morecambe ...	Trace	45	38	-	-	3.8		Eastbourne ...	2	50	37	bm	bm	6.5
Eng. N.W.	Southport ...	Trace	44	38	bc, b	b	6.2	England, S.W.	Seaford ...	*	48	34	b	b	6.5
	Leamington Spa ...	1	48	37	c, bc	bc, c	3.0		Brighton ...	3	50	35	b	b, bc	7.2
Midlands.	Malvern ...	1	50	35	bc, b	bc	4.9		Worthing ...	3	49	38	b	b	7.6
	Ross-on-Wye ...	1	50	35	bc, b	bc	4.9		Littlehampton ...	3	50	34	bc	bc	9.3
Wales.	Rhyl ...	-	44	38	b	c, o, bc	1.8		Bognor ...	*	50	34	bc	bc	9.3
	Colwyn Bay ...	*	47	40	bc	bc	1.5		Bournemouth ...	2	50	35	b	b, bc	7.9
	Llandudno ...	*	45	39	b, bc	c	1.8		Weymouth ...	*	50	36	b	bc	8.2
	Aberystwyth ...	*	44	39	bc, c	bc, c	3.7		Torquay ...	*	50	35	b	b	8.3
	Tenby ...	*	44	39	bc, c	bc, c	3.7		Paignton ...	*	51	40	bc	bc, c	7.5
Wales.	Colwyn Bay ...	*	47	40	bc	bc	1.5		Penzance ...	Trace	46	41	b	b	6.5
	Llandudno ...	*	45	39	b, bc	c	1.8		Newquay ...	Trace	46	41	b	b	6.5
	Aberystwyth ...	*	44	39	bc, c	bc, c	3.7		Bude ...	Trace	45	40	c, op	c, op	0.0
	Tenby ...	*	44	39	bc, c	bc, c	3.7		Ilfracombe ...	Trace	46	36	bc, b	b, bc	6.0
	Tenby ...	*	44	39	bc, c	bc, c	3.7		Weston-s-Mare ...	-	46	36	bc, b	b, bc	6.0

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

27th and 28th February 1917.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 6.47 6.45	G.M.T. 12.6 12.6	G.M.T. 5.25 5.27
Greenwich ...	6.53 6.51	12.13 12.13	5.33 5.35
Wick ...	7.16 7.14	12.25 12.25	5.34 5.36
Valencia ...	7.35 7.33	12.54 12.54	6.13 6.15

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° in many places and the weather was fair generally. As a rule there was much bright sunshine; about 9 hours locally.

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

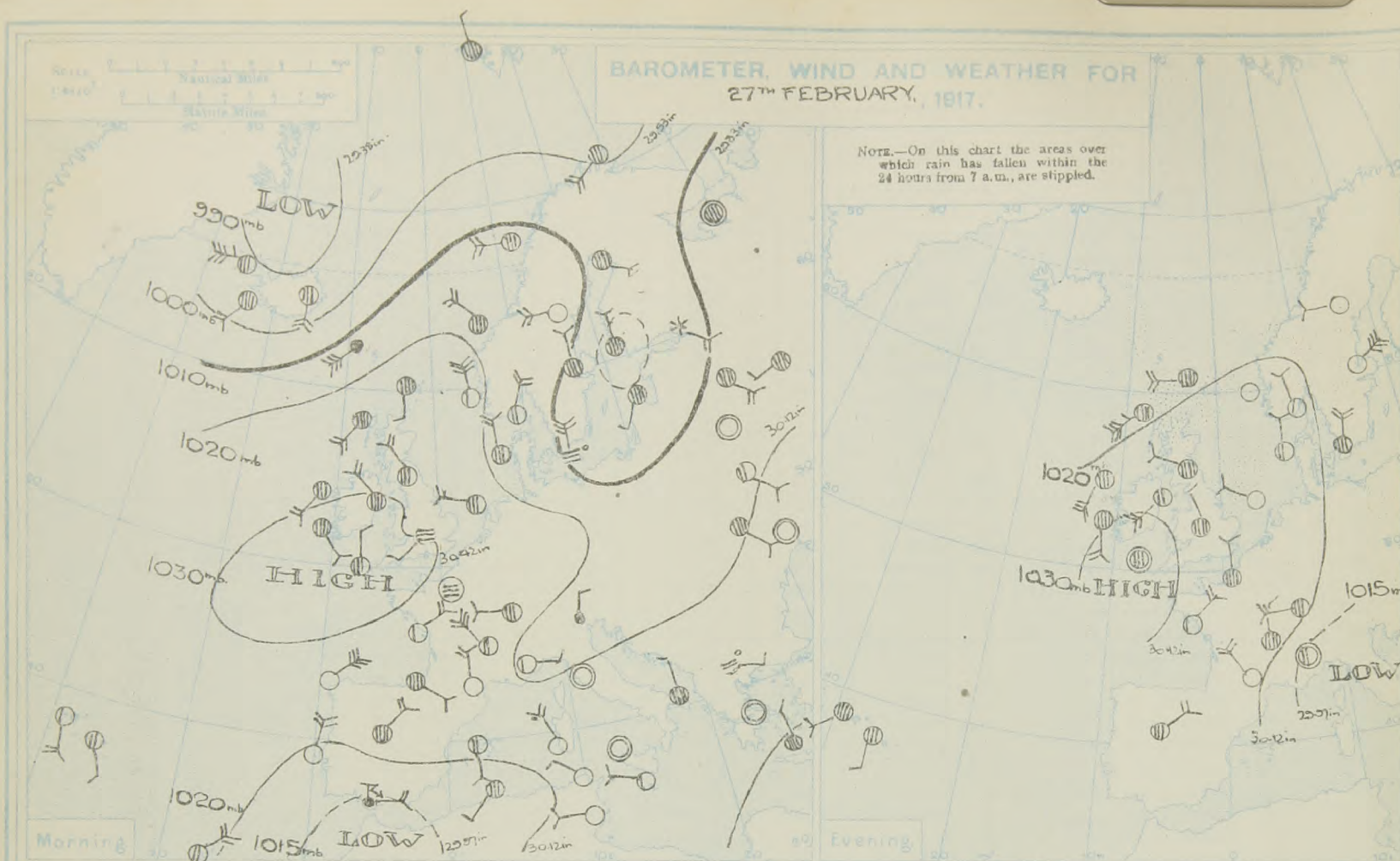
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\* The barometric change is expressed in half-millibars.



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





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

**FORECAST DISTRICTS**



**STORM WARNINGS.**

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

Signals hoisted yesterday.

South  
Coast.

North  
Coast.

Signals hoisted this morning.

South  
Coast.

North  
Coast.

**NO WARNINGS  
ISSUED.**

Western Channel and Bay. 1)

0 } Westerly or North-Westerly winds, light or  
1 } moderate; changeable, some rain; moderate  
2 } Temperature

3 } Wind between South-West and North-West, light,  
4 } much cloud; some rain locally; moderate Temperature.

5 } Wind between West and North-West, light or  
6 } moderate; cloudy or dull; some rain in many places;  
7 } moderate Temperature.

8 } Light variable or North-Westerly winds; sea  
9 } slight; cloudy or fair.

**FURTHER OUTLOOK.**

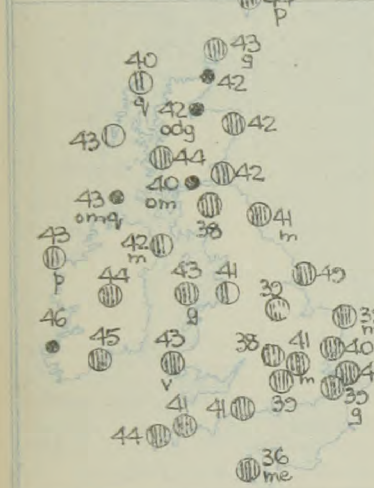


# SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 28<sup>th</sup> FEBRUARY, 1917.

## GENERAL INFERENCE

The V-shaped depression will move Eastward across the British Isles, and cause rain in most places.

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 of Tides  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tides for FEBRUARY.

Direction



## REPORTS FOR YESTERDAY.

STATIONS.		PREVIOUS EVENING.				MORNING.							PAST 24 HOURS.				MORNING						
		Barom. Milli- bars at M.S.L.	WIND.			Weather.	Barometer.		TEMP.		WIND.		Rain- fall. Milli- metres.	TEMP.		ICELAND.	Barom. Milli- bars at M.S.L.	TEMP.		WIND.			
			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.		Weather.	Max.			Min.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.	Weather.
		° F.						° F.					° F.	° F.			° F.	° F.					
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...					1016.8	+3	5	-7	-	0	0	-	*	54	Isafjord ...	990.6	36	0	W	7	c	
	Gorki ...	1015.1	10	-	0	b	1016.0	0	5	-11	-	0	0	-	*	5	Reykjavik ...	995.0	37	0	SSW	3	o
	Veliki Luki ...	1015.1	16	S	2	0	1010.7	*	19	+9	SSE	3	0	-	*	7	Vestmanna ...	996.6	37	0	W	4	r
	Hangö ...	1002.7	32	SSW	2	S	1004.2	+2	25	0	N	2	0	?	*	10	Seydisfjord ...	993.5	46	+16	S	4	c
	Riga ...	1007.9	32	SSW	2	S	1005.1	0	34	+22	SW	1	0	2	*	12	Thorshavn ...	1013.1	46	+11	SW	6	r
	Petrograd ...	1010.4	19	SSE	3	0	1008.7	0	19	-4	SE	3	S	-	28	19							
	Moscow ...	1015.0	3	-	0	b	1015.7	+1	5	+4	WSW	1	0	-	*	1							
	Kiev ...	1020.8	18	NW	2	b	1018.3	-1	14	-7	SSE	3	bc	-	*	12							
	Kharkov ...	1017.2	1	N	3	b	1022.4	+3	-8	-27	NNW	1	bc	-	*	-9							
	Kishinev ...	1021.6	?	-	0	bc	1019.3	-3	27	-5	SE	2	0	-	*	25							
	Elisabetgrad ...	1019.9	1	NNW	2	0	1022.6	+1	1	-17	-	0	bc	-	*	0							
	Nicolaiev ...	1022.7	21	NNW	2	c	1022.4	*	9	-19	-	0	b	-	*	7							
Odessa ...	1022.6	27	NNE	2	b	1021.9	+2	23	-5	NNE	1	0	-	*	19								
Tarkhankout ...	1022.5	30	N	7	b	1023.0	*	23	-14	ESE	2	bc	-	*	21								
Soukhom ...	1015.7	27	-	0	S	1017.3	-	21	+6	NE	2	bc	?	*	?								
MEDITERRANEAN.	Venice ...	1021.9	45	-	0	b	1018.9	*	36	+2	NNE	1	r	-	50	32	British Isles ...			b.		18	
	Pesaro ...	1023.1	41	W	1	c	1019.7	*	41	+10	-	0	0	-	48	31	France ...			7		18	
	Rome ...	1024.3	46	—	0	b	1022.1	*	39	+2	-	0	0	-	55	37	Norway ...			7		18	
	Viesti ...	1024.2	46	-	0	b	1021.4	*	45	-1	-	0	0	-	54	43	Sweden ...			7		17	
	Brindisi ...	1023.5	46	NW	1	b	1021.7	*	41	-2	N	1	bc	-	50	41	Denmark ...			7		18	
	Cagliari ...	1024.6	59	SE	3	b	1021.0	*	45	0	NNW	4	bc	-	63	45	Holland ...			7		18	
	Palermo ...	1024.2	48	-	0	b	1022.7	*	43	-2	-	0	0	-	61	37	Italy ...			7		20	
	Tripoli ...					1022.3	*	53	-11	N	2	bc	-	67	53	Egypt ...			6		18		
	Algiers ...	1019.7	55	NE	1	b	1018.0	0	54	-1	SW	1	c	-	68	52	Corunna ...			7		16	
																	Madrid ...			8		16	
SWEDEN.	Hernösand ...	1002.0	28	N	2	0	1011.9	*	30	0	W	4	bc	*	*	*	Lisbon ...			7		21	
	Stockholm ...	1001.7	34	W	2	S	1009.7	*	32	-2	N	2	0	*	*	*	Azores ...			8		17	
	Wisby ...	1002.6	34	SW	2	r	1006.9	*	32	-4	E	4	bc	*	*	*	Madeira ...			7		21	
														*	*	*	Malta ...			8		—	
													*	*	*				6		—		

## Hours of Observation G.M.T.

	Morning.	Evening.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	21
Malta	8	—
Limassol	6	—

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 18h.

STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine	STATIONS.	Rainfall.		TEMPERATURE.		WEATHER.		Sun- shine		
	Night. 12 h-9 h.	Day. 9 h-12 h.	Max.	Min.	Forenoon.	Afternoon.			Night. 12 h-9 h.	Day. 9 h-12 h.	Max.	Min.	Forenoon.	Afternoon.			
Scotland.	Mm.	Mm.	F.	F.			Hr.	England, E.			° F.	° F.			Hr.		
	Oban ... ..	Trace	1	45	41	op	c.d		0.0	Lowestoft ... ..	—	—	45	34	o	c.d	0.0
	Banff ... ..	—	—	50	41	o	o		0.0	Felixstowe ... ..	1	—	45	34	om	om	0.0
	Montrose ... ..	—	—	—	—	—	—		—	Walton-on-Naze ... ..	—	—	45	34	bc.c	bc.c	0.0
	Carnoustie ... ..	*	*	—	—	—	—		—	Southend-on-Sea ... ..	—	—	?	33	ox	ox	0.7
St. Andrews ... ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Eng. N.E.	Harrogate ... ..	—	—	45	35	b.bc.c	c.o	1.7	England, S.E.	Margate ... ..	—	—	41	36	o	o	0.0
	Skegness ... ..	Trace	—	50	36	o	o	0.0		Ramsgate ... ..	—	—	—	—	—	—	—
Eng. N.W. <td>Morecambe ... ..</td> <td>—</td> <td>—</td> <td>43</td> <td>35</td> <td>—</td> <td>—</td> <td>0.0</td> <td>Hastings ... ..</td> <td>—</td> <td>—</td> <td>47</td> <td>37</td> <td>o.bc</td> <td>bc.o</td> <td>2.5</td>	Morecambe ... ..	—	—	43	35	—	—	0.0		Hastings ... ..	—	—	47	37	o.bc	bc.o	2.5
	Southport ... ..	—	—	43	35	o	o.c.c	0.0		Eastbourne ... ..	1	—	48	36	b.bc.o	o.bc.b	3.2
	—	—	—	—	—	—	—	—		Seaford ... ..	*	*	50	35	b	bc.o	3.4
Midlands. <td>Leamington Spa ... ..</td> <td>—</td> <td>—</td> <td>47</td> <td>39</td> <td>b.bc</td> <td>bc.c.o</td> <td>3.8</td> <td>Brighton ... ..</td> <td>—</td> <td>—</td> <td>50</td> <td>36</td> <td>b.bc</td> <td>bc.o</td> <td>7.0</td>	Leamington Spa ... ..	—	—	47	39	b.bc	bc.c.o	3.8		Brighton ... ..	—	—	50	36	b.bc	bc.o	7.0
	Malvern ... ..	—	—	47	39	b.bc	bc.c.o	3.8		Worthing ... ..	—	—	51	36	b.bc	bc.c	6.7
	Ross-on-Wye ... ..	—	—	48	35	bc.b	em	0.1		Littlehampton ... ..	—	—	46	38	b	bc	5.7
Wales. <td>Rhyl ... ..</td> <td>—</td> <td>—</td> <td>46</td> <td>38</td> <td>op</td> <td>c.o</td> <td>0.0</td> <th rowspan="6">England, S.W.</th> <td>Bognor ... ..</td> <td>*</td> <td>*</td> <td>50</td> <td>35</td> <td>bc</td> <td>bc</td> <td>7.1</td>	Rhyl ... ..	—	—	46	38	op	c.o	0.0	England, S.W.	Bognor ... ..	*	*	50	35	bc	bc	7.1
	Colwyn Bay ... ..	*	*	47	42	o.bc.c	c.o.c.o	0.0		Bournemouth ... ..	—	—	52	33	b	bc	6.7
	Llandudno ... ..	*	*	45	41	c.o	o.c	0.0		Weymouth ... ..	*	*	51	36	bc.bc	bc	3.4
	Aberystwyth ... ..	*	*	42	39	o.c	c.o	0.0		Torquay ... ..	—	—	49	36	c.bc	o	2.5
	Tenby ... ..	—	—	—	—	—	—	—		Paignton ... ..	*	*	—	—	—	—	—
	—	—	—	—	—	—	—	—		Penzance ... ..	—	—	49	41	c	o	5.1
Greenwich. <td>Greenwich ... ..</td> <td>6.51</td> <td>12.13</td> <td>5.35</td> <td>6.49</td> <td>12.13</td> <td>5.37</td> <th rowspan="4">Notes on Yesterday's Weather.</th> <td>Newquay ... ..</td> <td>—</td> <td>—</td> <td>45</td> <td>30</td> <td>bc</td> <td>bc</td> <td>3.5</td>	Greenwich ... ..	6.51	12.13	5.35	6.49	12.13	5.37	Notes on Yesterday's Weather.	Newquay ... ..	—	—	45	30	bc	bc	3.5	
	Wick ... ..	7.14	12.25	5.36	7.11	12.25	5.39		Bude ... ..	—	—	47	33	bc	bc	2.8	
	Valencia ... ..	7.33	12.54	6.15	7.31	12.54	6.17		Ilfracombe ... ..	Trace	—	43	40	bc	o	1.0	
	—	—	—	—	—	—	—		Weston-s-Mare ... ..	—	—	40	36	o	o.c	0.0	

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

28th Feb. and 1st March, 1917.	Sunrise.	Noon.	Sunset.
Yarmouth	G.M.T. 6.45 6.43	G.M.T. 12.6 12.6	G.M.T. 5.27 5.29
Greenwich	6.51 6.49	12.13 12.13	5.35 5.37
Wick	7.14 7.11	12.25 12.25	5.36 5.39
Valencia	7.33 7.31	12.54 12.54	6.15 6.17

Temperature rose to 50° in various parts of the Kingdom and did not fall to a low minimum at night. Scarcely any rain fell, but little bright sunshine was recorded except in a few English localities.

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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