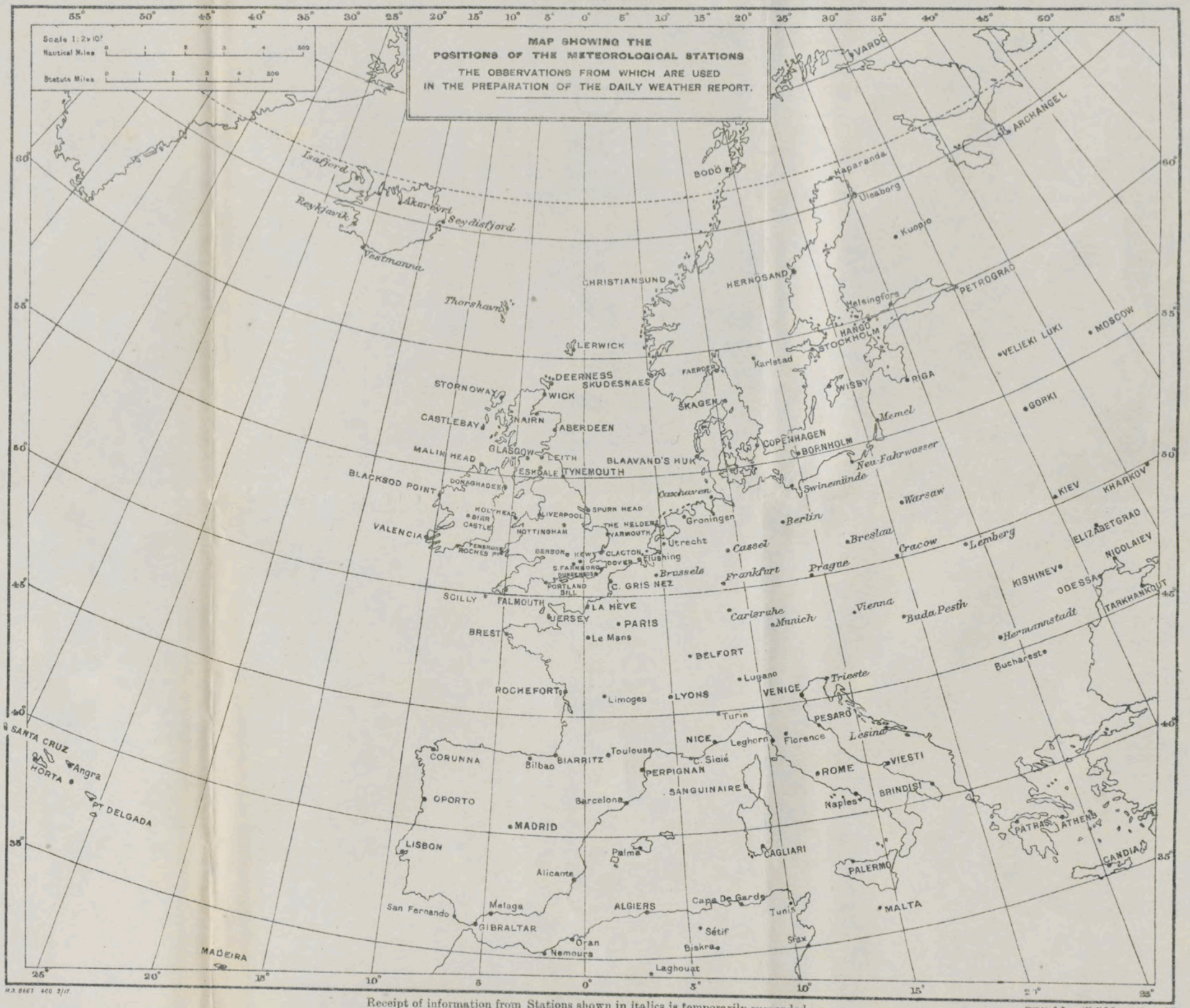
M.O. Form 2610.

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1st JANUARY TO 30th JUNE, 1916.

DAILY WEATHER REPORT, JANUARY—JUNE, 1916.



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

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.)

	STATIONS.	PRESSURE. 1906-1915.	AIR TEMPERATURE.							RAINFALL. 1881-1915.			BRIGHT SUNSHINE. 1881-1915.	
			Means of			Absolute Extremes.								
			1906-1915.	1881-1915.		1881-1915.								
						Maximum.		Minimum.						
		7 a.m. Observations (reduced to M.S. Level).	Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	Days with Rain.	Total Fall.		Daily Mean.	Per Centage of Possible Duration.
		mb.	°F.	°F.	°F.	°F.		°F.			mm.	in.	hr.	%
JANUARY.	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	13
	Castlebay (Barra Isd.)	[1009·0]§	[43·0]§	[45·6]§	[39·3]§	[52]§	[1908, 09, 10, 14]§	[28]§	[1910]§	[24]§	[80]§	[3·16]§	[0·97]§	[13]§
	Eskdalemuir	[1012·7]¶	[34·8]¶	[39·6]‖	[30·4]‖	[51]‖	[1910, 11, 15]‖	[3]‖	[1910]‖	[21]‖	[114]‖	[4·48]‖	[1·03]‖	[14]‖
	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	1882,3,4,8,90,98,1901	20	1894	24	139	5·49	1·55	19
	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	20
	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]§	[24]§
	Holyhead	1014·8	42·3	45·2	38·4	54	1899, 1915	20	1894	19	74	2·91	[1·42]**	[18]**
	Pembroke (St. Ann's Hd.)	1015·9	42·9	45·9	39·4	53	1899, 1907, 14	19	1881, 94, 1907	20	84	3·31	1·71	21
	Scilly (St. Mary's)	1017·3	45·6	49·1	42·3	57	1899	25	1894	21	76	2·98	1·90	23
	Falmouth	1018·0	43·1	46·9	39·9	55	1888, 90, 96	20	1894	20	107	4·21	1·87	22
	Jersey (St. Aubin's)	1019·0	42·8	46·6	38·6	57	1899	12	1891	20	75	2·94	2·19	26
	Portland Bill	1016·5	43·0	45·5	38·7	[52]†	[1901, 03, 05,† 11, 12, 13, 15]	[23]†	[1907]†	16	57	2·26	—	—
	Dungeness	1016·6	39·4	43·8	34·7	55	1898	11	1893	16	48	1·90	—	—
	Dover	[1015·5]§	[38·1]§	[43·2]§	[34·4]§	[55]§	[1914]§	[17]§	[1910]§	[18]§	[57]§	[2·25]§	[2·10]§	[25]§
	Wick	1008·5	38·0	42·5	33·3	60	1898	−4	1881	21	62	2·46	—	—
	Nairn	1009·5	36·9	42·6	31·8	59	1887	4	1910	18	51	1·99	[1·32]‡	[18]‡
	Aberdeen	1011·1	37·1	42·3	33·4	59	1898	4	1881	18	55	2·18	1·55	21
	Leith	1012·0	39·2	44·0	34·2	58	1898	9	1881	15	42	1·66	—	—
	Tynemouth	1013·5	38·5	43·5	33·6	58	1898	6	1881	15	41	1·63	—	—
	Spurn Head	1014·3	38·3	42·1	34·7	55	1898	13	1881	15	35	1·36	[1·29]**	[16]**
	Yarmouth	1015·9	37·8	41·8	33·7	57	1899	10	1881	18	44	1·74	[1·81]§	[22]§
	Clacton-on-Sea	1016·8	37·7	41·8	33·9	[55]‡	[1914]‡	[18]‡	[1915]‡	14	34	1·34	1·87	23
	Nottingham	1015·7	37·1	42·6	32·6	56	1882, 88, 98, 99 1908, 10, 14	2	1881	19	46	1·81	1·10	14
	LONDON (Kew Obsy.)	1017·5	38·3	43·1	34·6	56	1910	9	1881	16	45	1·76	1·39	17
FEBRUARY.	Lerwick	1002·6	39·0	42·1	34·5	53	1910	17	1895	23	80	3·16	—	—
	Stornoway	1004·0	39·2	44·1	34·2	55	1891	12	1892	22	113	4·46	2·06	22
	Castlebay (Barra Isd.)	[1005·0]§	[42·7]§	[45·8]§	[38·9]§	[52]§	[1914]§	[27]§	[1912]§	[22]§	[91]§	[3·58]§	[1·76]§	[19]§
	Eskdalemuir	[1007·6]¶	[35·4]¶	[41·9]‖	[31·6]‖	[51]‖	[1912]‖	[10]‖	[1912]‖	[22]‖	[183]‖	[7·19]‖	[1·60]‖	[16]‖
	Malin Head	1005·8	40·7	[44·6]*	[37·1]*	[59]*	[1891]*	[20]*	[1895]*	[19]*	[61]*	[2·41]*	—	—
	Blacksod Point	1008·0	42·9	[46·7]*	[38·1]*	[61]*	[1891]*	[23]*	[1912]*	[22]*	[103]*	[4·06]*	—	—
	Valencia	1010·6	43·5	48·8	39·7	58	1891	22	1895	21	132	5·20	2·48	25
	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	1009·7	39·1	46·7	34·4	60	1912	6	1895	17	58	2·29	2·41	25
	Donaghadee	1009·4	40·0	45·6	36·1	57	1897, 1901, 11	16	1895	18	58	2·20	—	—
	Liverpool (Observatory)	1010·7	38·7	44·2	35·6	59	1885, 1898	12	1895	16	42	1·68	[2·66]§	[28]§
	Holyhead	1010·2	41·9	45·4	38·0	59	1891	17	1895	17	62	2·43	[2·50]**	[26]**
	Pembroke (St. Ann's Hd.)	1011·3	42·2	45·6	38·9	56	1903	23	1895	17		2·66	2·70	28
	Scilly (St. Mary's)	1012·8	45·1	48·9	41·7	57	1896, 1899	27	1895	17	65	2·57	3·01	30
	Falmouth	1013·8	42·6	47·1	39·6	58	1899	22	1895	17	94	3·70	2·98	30
	Jersey (St. Aubin's)	1015·2	42·4	47·3	38·7	62	1891	18	1895	17	62	2·44	3·30	33
	Portland Bill	1012·5	42·4	45·6	38·5	[54]†	[1905]†	[24]†	[1912]†	13	49	1·93	—	—
	Dungeness	1012·9	39·5	44·5	35·2	57	1897	11	1889	15	41	1·60	—	—
	Dover	[1014·1]§	[39·4]§	[45·6]§	[35·9]§	[56]§	[1913]§	[17]§	[1912]§	[17]§	[43]§	[1·68]§	[3·16]§	[32]§
	Wick	1003·9	37·8	42·8	32·8	57	1897, 1903	2	1895	19	58	2·27	—	—
	Nairn	1005·0	36·8	43·9	31·3	64	1891	0	1895, 97	17	46	1·80	[2·59]‡	[28]‡
	Aberdeen	1006·7	37·7	43·2	33·4	64	1897	6	1895	17	52	2·05	2·59	28
	Leith	1007·2	38·8	45·2	33·8	59	1882	12	1895, 1912	14	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]**	[29]**
	Yarmouth	1012·1	38·1	42·9	34·0	60	1912	15	1895	15	38	1·49	[2·84]§	[29]§
	Clacton-on-Sea	1012·9	38·1	42·9	34·4	[58]‡	[1903]‡	[18]‡	[1912]‡	12	32	1·25	2·94	30
	Nottingham	1011·4	37·6	44·6	33·2	61	1899	2	1895	16	39	1·55	2·06	21
	LONDON (Kew Obsy.)	1013·5	38·5	45·0	35·1	62	1899	11	1895	13	39	1·54	2·13	22
MARCH.	Lerwick	1005·7	38·3	42·9	34·4	57	1893	19	1891	25	80	3·14	—	—
	Stornoway	1007·4	38·6	45·3	34·4	57	1894, 1907	13	1881	24	104	4·10	3·39	29
	Castlebay (Barra Isd.)	[1006·7]§	[41·7]§	[45·7]§	[38·5]§	[52]§	[1911]§	[27]§	[1915]§	[22]§	[77]§	[3·02]§	[3·87]§	[33]§
	Eskdalemuir	[1007·2]¶	[35·2]¶	[44·2]‖	[31·9]‖	[55]‖	[1910, 1915]‖	[16]‖	[1913]‖	[21]‖	[133]‖	[5·24]‖	[3·10]‖	[26]‖
	Malin Head	1008·2	40·7	[46·0]*	[37·7]*	[62]*	[1894]*	[25]*	[1906]*	[21]*	[59]*	[2·32]*	—	—
	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	34
	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	30
	Donaghadee	1010·1	39·9	47·4	36·7	64	1892	25	1892, 1906	19	56	2·19	—	—
	Liverpool (Observatory)	1011·0	39·6	46·9	36·9	65	1884, 94, 1907	21	1886	17	48	1·90	[3·52]§	[30]§
	Holyhead	1010·8	41·9	46·9	38·4	67	1894	27	1881	18	67	2·62	[4·06]**	[35]**
	Pembroke (St. Ann's Hd.)	1011·7	41·9	46·7	39·0	58	1899	26	1888, 1909	17	66	2·58	4·19	36
	Scilly (St. Mary's)	1012·6	45·0	49·9	42·0	59	1893	30	1883, 90, 91	18	62	2·45	4·52	38
	Falmouth	1013·4	42·7	48·7	39·8	60	1914	24	1890	18	88	3·46	4·45	38
	Jersey (St. Aubin's)	1014·1	43·4	49·9	39·9	66	1893, 94, 1903	21	1890	18	64	2·51	4·74	40
	Portland Bill	1011·8	42·7	47·5	39·1	[59]†	[1900]†	[26]†	[1909]†	15	51	2·02	—	—
	Dungeness	1011·8	40·7	47·0	36·4	60	1903	12	1909	15	45	1·76	—	—
	Dover	[1010·8]§	[40·8]§	[47·4]§	[37·0]§	[58]§	[1911, 15]§	[17]§	[1909]§	[20]§	[64]§	[2·50]§	[3·97]§	[34]§
	Wick	1006·7	37·7	44·9	33·8	62	1894	10	1900	21	58	2·27	—	—
	Nairn	1007·4	36·6	46·4	32·6	66	1907	6	1892	19	48	1·87	[3·81]‡	[33]‡
	Aberdeen	1008·3	38·0	45·7	34·4	66	1889, 91, 92	10	1889	20	61	2·41	3·77	32
	Leith	1008·7	39·3	47·7	34·9	68	1884	19	1881, 89	17	44	1·75	—	—
	Tynemouth	1009·4	38·7	46·9	34·4	67	1907	15	1889	16	46	1·81	—	—
	Spurn Head	1009·9	39·5	45·7	36·3	62	1890, 93, 1903	24	1886	15	36	1·40	[3·71]**	[32]**
	Yarmouth	1011·1	39·2	45·8	35·4	65	1906, 14	18	1892	17	44	1·75	[3·77]§	[32]§
	Clacton-on-Sea	1010·9	39·5	46·2	35·8	[60]‡	[1912, 14]‡	[19]‡	[1909]‡	13	37	1·44	4·23	36
	Nottingham	1011·2	38·2	48·3	34·3	68	1884	14	1909	18	42	1·65	3·39	29
	LONDON (Kew Obsy.)	1012·6	39·3	48·7	36·0	67	1896	17	1909	14	43	1·69	3·39	29

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

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

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

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

(7055—12.) Wt. 47589—8458. 3000. 4/16. D & S. G. 3.

* Information for these columns not usually received. † Received too late for insertion in Charts.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 32 { Tuesday, 1st February,

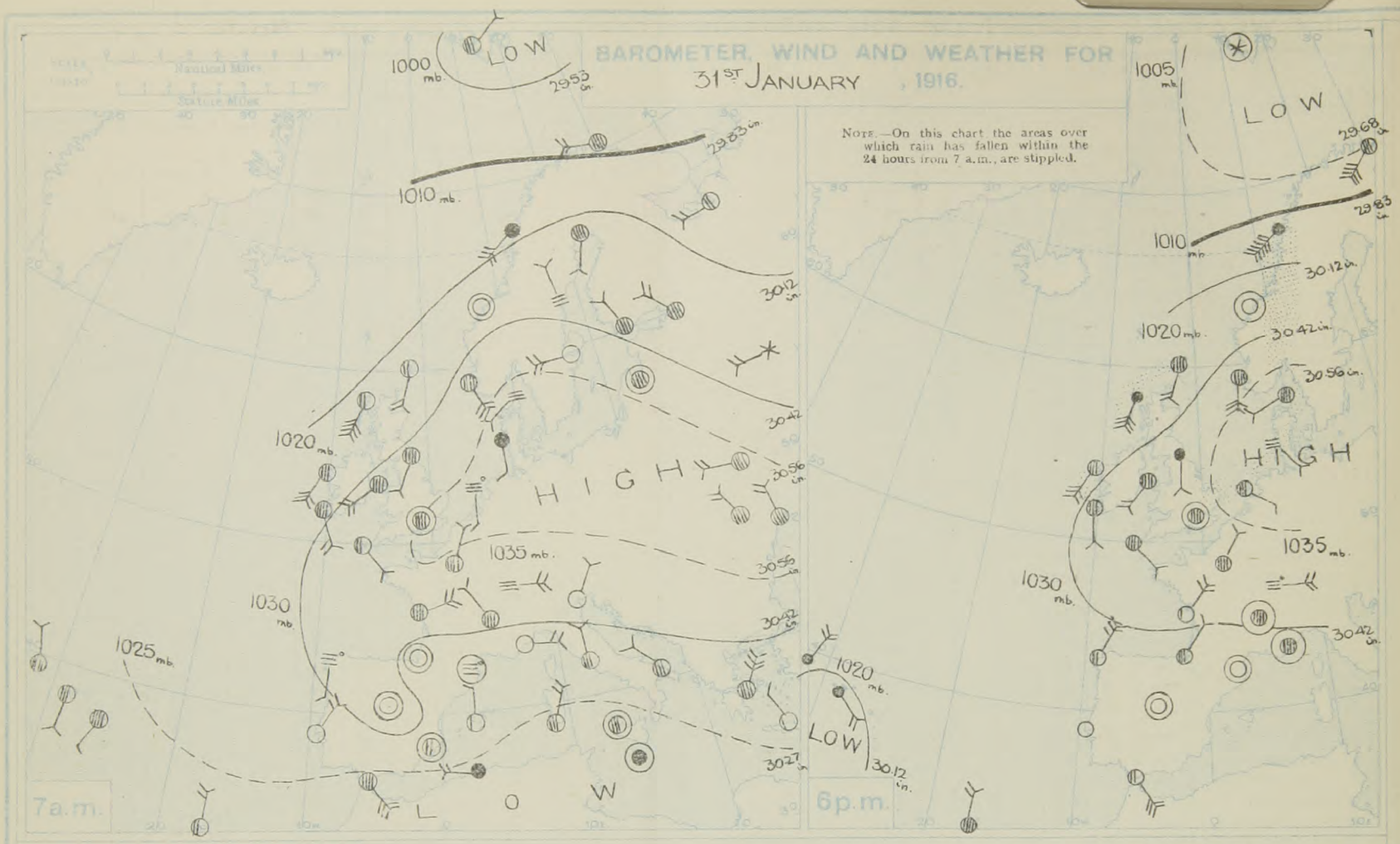
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1025·8	44	SSW	3	om	1024·7	−1	45	+2	S	4	–	om	3	1	45	41	bc	bc.om	omp	*
	Deerness (Orkney)	1026·1	43	SSE	2	o	1022·0	*	44	+7	S	4	–	o	4	–	45	38	b	b.bc.c.o	o	5·0
	Stornoway ...	1025·1	47	SSW	6	odqp	1019·7	−2	46	0	SSW	7	–	oq	5	0·3	48	45	o.oq	odqp	odqp	0·1
	Castlebay (Barra Isd.)	1026·6	48	SSW	5	op	1022·3	−2	47	−1	S	5	–	o	5	1	48	46	o	op	op.o	0·0
	Glasgow ...	1029·6	49	SSW	2	o	1027·5	−2	45	−2	SSW	1	–	o	*	–	49	45	om	omq	om.c.oq	0·0
	Eskdalemuir ...	1031·1	48	SW	3	o	1029·2	−2	42	−3	SSW	4	–	om	*	0·1	45	42	oc.om.o	om.o	o	0·0
	Malin Head ...	1027·5	49	SW	3	cq	1024·2	−2	46	−2	SW	3	SW	bc	3	–	50	43	bc	cq	bc	3·5
	Blacksod Point	1026·6	48	SSW	5	cq	1022·7	−3	46	−1	SSW	5	SW	omd	4	0·2	48	44	cq	cq	cm.omd	*
	Valencia ...	1030·1	49	S	2	c	1026·4	−3	47	−2	S	2	S	bc	4	0·3	52	46	omd	c	od.c	0·2
	Roche's Point	1031·9	49	SW	3	o	1028·9	*	49	0	S	4	–	o	4	0·4	49	47	o	o	op.o	*
	Birr Castle ...	1030·3	49	S	1	o	1028·0	*	46	−2	S	1	–	o	*	–	51	46	o	o	o	0·0
	Donaghadee ...	1029·8	47	SSW	3	cgm	1027·2	0	45	−3	SSW	3	–	ogm	2	–	50	42	c	cgm	of.ogm	*
	Liverpool (Bidston)	1033·1	46	WSW	1	o	1030·8	−1	42	0	ESE	2	–	o	1	–	48	41	oc.b	o	o.b.o	2·1
	Holyhead ...	1032·4	47	SW	3	om	1030·0	−3	46	0	SW	3	–	b	2	Trace	?	?	om	o.c.om	o.b.dp	0·0
	Pembroke (St. Ann's)	1033·3	47	SW	2	c	1030·4	−1	46	−1	SSW	3	–	o	3	–	48	45	c	c	o	0·0
	Scilly (St. Mary's)	1032·6	46	SE	2	o	1030·6	−3	46	−1	ESE	2	SE	oq	3	–	48	44	om	om	om	0·0
	Falmouth ...	1033·7	45	–	0	oq	1031·0	−2	41	−4	N	1	–	o	*	–	47	41	oq	oq	o	0·0
	Jersey (St. Aubin)	1032·8	43	NE	1	cm	1030·9	*	34	−6	ENE	1	–	om	0	–	45	33	om.o	o.cm	bcc.om	0·0
	Portland Bill ...	1033·9	44	NE	1	o	1031·0	−2	42	−1	NE	2	–	cm	2	–	46	41	m	o	o.c	*
	Dungeness ...	1033·7	41	NE	2	bc	1031·6	−1	38	0	NE	2	NE	c	2	–	43	37	o.c.o	o.c.bc	bc	*
	Dover	1033·7	40	NE	1	c	1032·6	−1	34	−3	NE	1	NE	bc	3	0·3	42	34	cq.o	od.r.o.c	c.cq.bc	0·0
	Wick	1025·8	42	SW	1	bc	1022·7	−2	45	+6	SW	3	–	o	3	–	45	38	bc	bcm	bc.ogm	*
	Nairn	1027·1	44	SW	1	bc	1023·9	*	47	+7	WSW	1	–	c	2	–	50	39	bc	b.bc	bc.c	7·2
	Aberdeen ...	1028·5	39	SW	1	b	1026·7	−1	42	+6	SSW	3	SW	bc	2	–	49	33	bq	bq	b.bcw	6·4
	Leith	1026·9	47	W	1	c	1026·9	−2	45	+1	W	1	W	c	2	–	51	43	oc.c	c.bc	bc.c	*
	Tynemouth ...	1031·6	48	S	2	ogmr	1030·4	−2	45	−3	NW	2	–	ogm	2	–	50	44	ogm	ogm	ogm	*
	Spurn Head ...	1033·0	43	SSW	1	om	1032·4	−1	41	−1	S	2	–	cm	2	0·1	44	40	om.f	om	p.f.om	0·0
	Yarmouth ...	1034·2	41	SSW	1	f	1033·3	0	40	0	ESE	2	–	om	2	2	41	39	f	fd	fd.om	0·0
	Clacton-on-Sea	1034·3	40	ESE	1	c	1032·4	−1	40	+1	ESE	2	–	c	1	0·3	41	38	ogmd.c	c.ogmd	ogm.cq	0·0
	Nottingham ...	1033·2	41	SSW	1	bc	1032·2	*	30	−6	SW	1	–	fc	*	–	47	28	cm	cm	bc.bm	0·0
	Benson (Oxon.) ...	1034·1	36	–	0	b	1032·2	−1	35	−1	–	0	–	f	*	–	44	30	o	o.bc	bcf	*
	Sth Farnborough	1033·6	39	–	0	m	1031·5	−1	38	−1	–	0	–	f	*	–	44	34	om	om	m.f	0·0
	London (Kew Obsy.)	1034·2	41	–	0	om	1031·9	−2	40	−1	SE	1	–	om	*	–	46	39	of	om.of.om	om	0·0
NORTHERN EUROPE.	Spitsbergen ...	1002·5	9	–	0	s	982·7	+6	7	+15	–	0	*	s	*	*	9	−11				
	Vardö	1003·0	34	SW	7	c	998·6	+6	34	+4	WNW	10	N	c	5	*	34	12				
	Bodö	1012·4	41	SW	11	r	1017·6	0	39	−2	SW	4	–	o	3	5	43	37				
	Christiansund	1025·2	41	–	0	b	1023·3	−3	43	+6	SW	2	–	c	3	–	43	36				
	Skudesnaes ..	1034·7	41	S	5	o	1032·8	−2	39	0	SSE	8	–	o	5	–	41	37				
	Færder (Christiania Fjord)	1036·3	37	SW	3	o	1034·7	−3	37	+3	SW	4	–	b	2	Trace	37	34				
	The Scaw (Skagen)	1037·9	27	WSW	2	o	1037·5	0	32	−4	SW	2	–	m	2	–	39	30				
	Blaavands Huk	1038·9	34	SE	2	f	1037·6	0	27	−12	SSE	1	–	o	1	Trace	39	25				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1036·2	36	ESE	1	c	1034·6	0	30	−4	ESE	1	–	o	1	1	36	28				
	C. Gris Nez ...	1033·2	36	E	1	r	1031·5	−3	32	−3	E	3	*	b	0	Trace	39	32				
	La Hève	1031·8	37	NE	1	m	1029·7	*	34	−7	–	0	*	b	1	–	46	32				
	Brest (St. Mathieu)	1033·2	44	NE	1	o	1031·4	−1	40	−2	NE	2	*	b	5	–	50	37				
	Rochefort (Ile d'Aix)	1030·9	40	NE	4	b	1029·2	0	36	−1	NE	3	*	bc	*	–	43	34				
	Biarritz	1029·0	44	NNE	2	c	1028·3	0	42	−1	–	0	*	o	2	–	52	41				
	Paris	1032·6	34	NNE	2	o	1030·0	0	34	0	NE	1	–	o	*	–	37	34				
	Belfort	1032·8	34	E	4	m	1029·5	*	30	+3	ENE	4	*	m	*	–	36	30				
	Lyons	1032·0	35	–	0	o	1029·6	*	31	−4	–	0	*	o	*	–	38	30				
	Nice	1028·7	45	–	0	o	1028·6	0	49	+5	–	0	*	o	3	–	52	41				
	Perpignan ..	1028·6	41	–	0	b	1028·7	0	37	+3	–	0	–	c	*	–	50	36				
	Sanguinaire ..	*					*	*					*									
SOUTHERN EUROPE.	Coruña (7 a.m.)	1029·0	55	NNE	5	bc	1030·3	+1	39	−2	S	2	–	m	2	–	55	37				
	Madrid (8 a.m.)	1027·3	46	–	0	b	1031·8	+1	32	0	NE	1	–	b	*	–	48	30				
	Lisbon (9 a.m.)																					
	Gibraltar	1025·0	56	SE	5	bc	1025·0	*	56	+1	SE	4	*	o	3	Trace	59	54				
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1020·8	*	NNE	4	r	1022·7	+2	55	−3	NNE	5	*	o	4	8	61	55				
	Madeira (Funchal)	1022·4	63	N	3	o	1025·0	+2	57	+2	ESE	2	–	bc	2	–	63	55				
YESTERDAY'S REPORTS		30th Jan., 8 P.M. G.M.T.					31st January..., 7 A.M. G.M.T.															
ITALY.	Venice	1028·6	41	–	0	b	1031·0	+1	37		NE	2	*	b	2	–	*	*				
	Turin	1029·6	39	–	0	b	1030·7	0	37		–	0	*	o	*	–	*	*				
	Florence	1026·0	46	–	0	b	1027·1	0	45		N	2	*	b	*	–	*	*				
	Pesaro	1028·5	41	SW	2	b	1029·9	+1	37		S	2	*	c	4	–	*	*				
	Leghorn	1027·1	48	NE	2	b	1028·1	+1	45		NE	3	*	b	3	–	*	*				
	Rome	1025·0	46	–	0	b	1026·6	+1	41		N	2	*	c	*	–	*	*				
	Brindisi	1024·3	50	NW	2	c	1028·3	0	50		NW	2	*	c	3	–	*	*				
	Cagliari	1023·3	52	SW	3	r	1024·6	0	50		NNE	3	*	c	5	8	*	*				
	Palermo	?1022·0	48	E	2	?b	1023·1	0	46		–	0	*	c	2	–	*	*				

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

RAINFALL
Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0 a, b	Strong to moderate Southerly and South-Westerly wind; dull generally, some mist; mild.
1, 2 a, b	Light to moderate Southerly and South-Westerly breezes; cloudy to dull, some mist or fog; mild.
3, 4 a, b, 5	Light Variable Easterly breezes; dull, some mist or fog; temperature moderate to cold, night frost.
6 a, b, 7 a, b	Same as Nos. 1 and 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b	Moderate to fresh Southerly and South-Westerly breezes; fair to dull, some mist; mild.
10 a, b	Same as Nos. 1 and 2.
Western Channel and Bay 11	Light Easterly breeze; sea slight; fair to cloudy; cool.

FURTHER OUTLOOK.

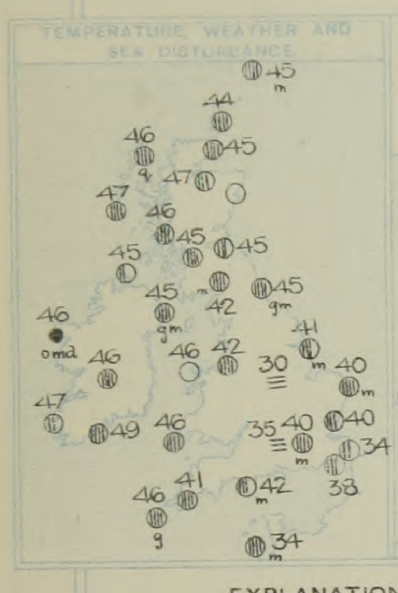
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 1ST FEBRUARY, 1916.

GENERAL INFERENCE.

No important change in the general conditions is indicated.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough . High.

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° above 60°
Scale of Tints for FEBRUARY.

985 mb. 7 LOW
990 mb. 29·09 in.
995 mb. 29·24 in.
1000 mb. 29·37 in.
1005 mb. 29·53 in.
1010 mb. 29·68 in.
1015 mb. 29·83 in.
1020 mb. 29·97 in.
1025 mb. 30·12 in.
1030 mb. 30·27 in.
1035 mb. 30·42 in.
30·56 in.
30·42 in.
30·27 in.
LOW
HIGH
Barometer falling slowly generally
32°
40°

Issue No. 19,794 DAILY WEATHER REPORT. Tuesday, 1st February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	3rd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. F.	Wind. Direc.	Wind. Force 0–12.	Weather.	31st Jan., AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1011.4	21	W	2	bc	1013.8	+7	23		W	3	*	bc	0	—	*	18
Uleaborg	1017.3	30	W	4	s	1024.8	+1	19		—	0	*	f	*	?	*	*
Helsingfors ...	1024.8	34	W	2	0	1028.9	+3	34		WNW	2	*	b	0	Trace	*	*
Hangö	1025.5	34	—	0	0	1029.9	+5	30		—	0	*	r	0	—	*	*
Riga	1030.3	34	SW	1	r	1032.3	+2	36		—	0	*	0	0	3	*	*
Petrograd	1024.2	32	WNW	3	0	1027.4	+3	30		NW	3	—	0	*	—	32	30
Moscow	1026.9	27	NE	4	0	1024.8	+3	27		W	3	*	0	*	—	*	27
Kiev	1034.9	23	NW	3	0	1037.1	0	21		WNW	3	*	0	*	—	*	18
Kharkov	1030.4	23	NW	2	0	1033.1	+2	25		NNW	2	*	0	*	—	*	*
Kishinev	1036.8	27	N	3	0	1038.7	+1	27		NNW	3	*	0	*	—	*	10
Elisabetgrad ...	1033.9	27	NNW	4	0	1036.6	+1	25		WNW	3	*	0	*	—	*	23
Nicolaiev	1034.9	30	NW	4	c	1037.3	*	27		N	3	*	0	0	—	*	25
Odessa	1035.0	27	NNW	3	b	1037.3	+1	27		N	3	*	0	0	—	*	23

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

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0.3	44	31	o	o	0.0
	Banff	—	45	26	b	b	7.2
	St. Andrews	—	49	33	*	*	0.3
Eng. N.E.	Harrogate	—	51	44	o.c	bc.c.o	0.6
	Skegness	—	41	37	og	ogm	0.0
Eng. N.W.	Morecambe	—	47	44	o	o	0.0
	Blackpool						
	Southport	—	50	43	o.c.o	o	0.1
Midlands.	Buxton						
	Leamington Spa	—	48	28	c	c	1.2
	Malvern	—	41	41	o	o	0.1
	Ross-on-Wye	—	45	33	om	c	0.0
Wales.	Llandudno	—	51	40	c.bc.c	b	3.8
	Rhyl	—	53	36	b	bc	4.2
	Colwyn Bay	—	45	40	b	bc	3.8
	Aberystwyth	—	48	40	o.c	c.o	0.0
	Tenby	—	51	43	bcq	bc.c	0.0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	0.3	42	39	of	or	0.0
	Felixstowe	1	45	38	om	omr	0.0
	Walton-on-Naze						
	Southend-on-Sea	—	42	39	o	c	0.0
England, S.E.	Margate	1	44	39	o	or	0.0
	Ramsgate	0.3	42	41	o	d	0.0
	Hastings	—	43	38	o.c	o	0.0
	Eastbourne	—	44	?	o	o	0.0
	Seaford	—	45	39	o	o	0.0
	Brighton	—	44	40	om.o	o	0.0
	Worthing	—	44	39	bc	c.bc	0.0
	Littlehampton	—	47	39	o	o	0.0
	Bognor	—	44	40	bc.o	bc	0.7
	Southsea	—	45	40	bc	bc	0.1
	Bournemouth	—	47	40	o.c	om	1.9
England, S.W.	Weymouth...	—	47	42	o	o	0.0
	Torquay	—	48	44	o	o	0.0
	Paignton	—	46	44	o	o	0.0
	Penzance	—	48	45	o	o	0.0
	Newquay	—	50	40	o	o	0.0
	Ilfracombe						
	Weston-super-Mare ...	—	47	41	c.o	c	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	88	82	0.0	42	37	31	—	o	o	o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	83		44	40	37	—	om	om	of om
Camden Sq. (Brit. Rainfall)	88	85	0.0	44	38	35	—	ogm.om	f.om	*
Hampstead (Reservoir) ...	*	89	0.0	43	36	29	—	om	of	ex.og
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	82	82	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
129 Joules	2.4 Milliwatts.	7 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	—	48	45	42	o	o	o	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	—	45	40	38	om	ogm	ogf of	*

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

1st & 2nd February, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.38	12.7	4.36
	7.36	12.7	4.38
Greenwich	7.41	12.14	4.47
	7.39	12.14	4.49
Wick	8.21	12.36	4.31
	8.19	12.36	4.33
Valencia	8.25	12.55	5.15
	8.23	12.55	5.17

NOTES ON YESTERDAY'S WEATHER.

Temperature was more variable than of late, but still exceeded 50° in places. The day was sunless in most localities, but Banff and Nairn had 7·2 hours of sunshine.

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

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

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 33

Wednesday, 2nd February,

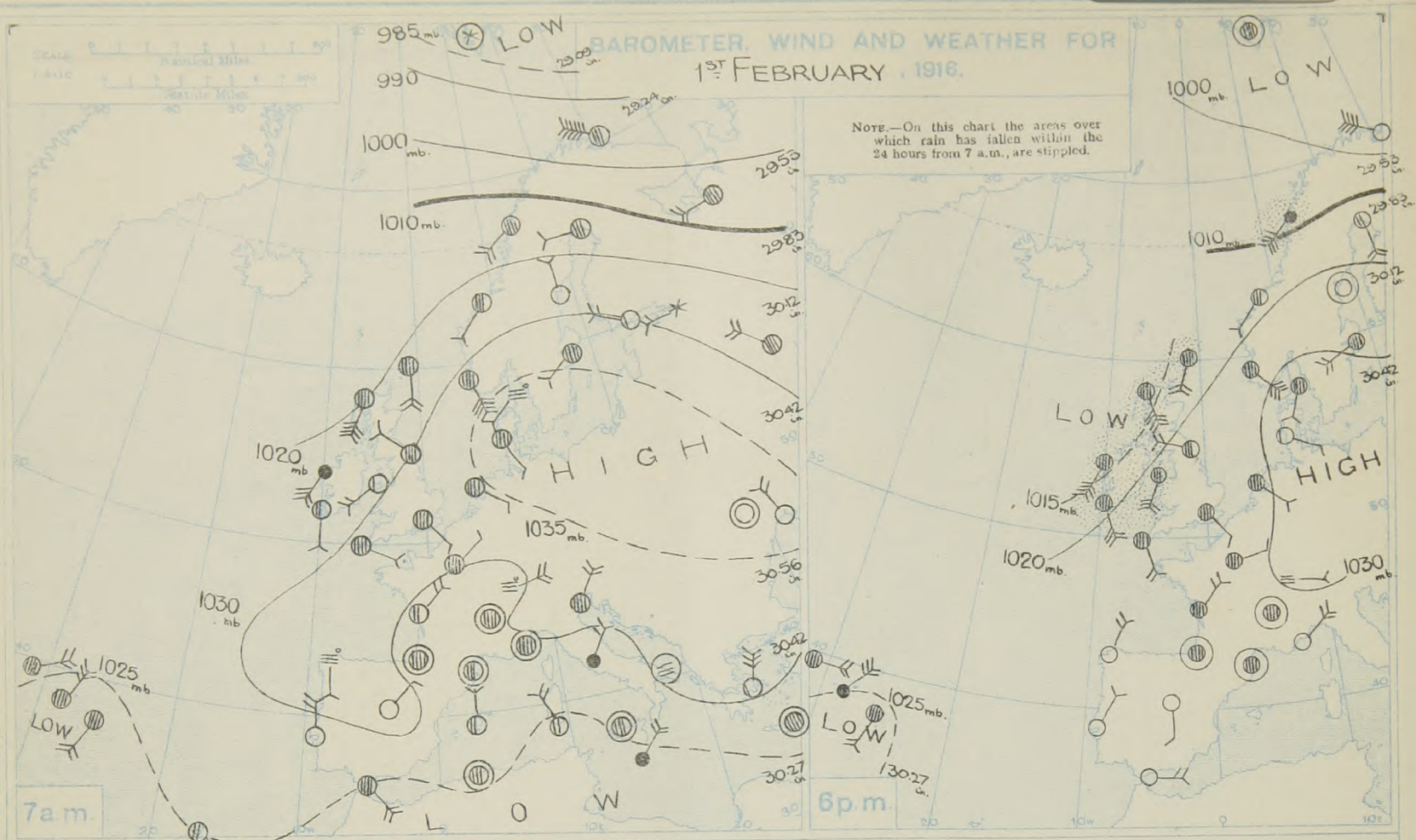
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·9	45		4	om	1002·9	-6	44	-1	SSW	6	-	orq	5	2	46	41	cm	c.om	omrq	*
	Deerness (Orkney)	1016·2	46	S	3	oc	1004·4	*	41	-3	SW	3	-	omc	4	2	45	41	oc	oc.c	c.oc	0·0
	Stornoway ...	1013·3	[illegible]				1006·5	+2	37	-9	W	1	-	b	1	5	47	37	odqp	odqp	oqp.b	0·0
	Castlebay (Barra Isd.)	1013·9	48	S	5	o	1008·5	+1	43	-4	W	3	W	bc	3	6	48	40	op	op	or.bc	0·0
	Glasgow ...	1021·8	44	SSW	3	omd	1009·0	-4	41	-4	W	2	-	or	*	5	48	41	om	o.cm.o	odqp r	0·2
	Eskdalemuir ...	1024·3	44	SW	3	om	1010·4	-6	40	-2	S	6	-	or	*	7	43	38	om.or	omc.om	om.or	0·0
	Malin Head ...	1016·2	45	SW	6	cq	1009·8	0	43	-2	NW	5	NW	cp	5	3	49	42	bc	cq	cp	0·8
	Blacksod Point	1013·2	49	SSW	7	omp	1012·8	0	41	-5	WNW	5	NW	cp	4	4	49	39	cmq	omqp	omr.cp	*
	Valencia ...	1018·8	51	SSE	6	o	1015·3	0	42	-5	NW	1	NW	bcp	4	9	52	41	bcq	oq	or.o.c.bc	0·1
	Roche's Point	1023·5	49	SW	4	r	1016·3	*	43	-6	WNW	2	-	o	3	7	49	43	omd	omr	r.o	*
	Birr Castle ...	1020·0	48	S	3	o	1013·7	*	43	-3	W	1	-	c	*	4	51	42	o	o	or.c	0·0
	Donaghadee ...	1021·0	46	SSW	4	omr	1010·1	-2	43	-2	WNW	3	-	ogmp	3	6	47	43	ogm	og.omr	ogm.or	*
	Liverpool (Bidston)	1025·9	44	SE	2	m	1015·0	-3	44	+2	SE	2	SE	oc	2	0·1	45	39	om	cm.o	o	0·0
	Holyhead ...	1024·7	45	SSW	5	oqq	1012·4	-4	47	+1	SW	6	-	omr	5	4	47	44	o.cp	oc	oc.omr	0·0
	Pembroke (St. Ann's)	1026·4	46	SSW	3	c	1015·6	-3	47	+1	SW	6	-	oqp	5	1	47	46	c	c	oqp	0·0
	Scilly (St. Mary's)	1025·9	46	SSE	3	o	1017·9	-3	47	+1	SW	5	SW	om	5	-	48	44	om	om	o.c.oq	0·0
	Falmouth ...	1026·8	43	—	0	om	1018·5	-4	46	+5	SSW	4	-	o	*	-	46	41	om	om	omc.o	0·0
	Jersey (St. Aubin)	1028·0	42	E	1	ou	1023·4	*	41	+7	SSW	3	-	o	2	-	42	34	o.c.om	om	om.o	0·1
	Portland Bill ...	1028·3	44	E	2	og	1020·3	-2	46	+4	SW	4	SW	o	4	-	47	40	c.om	oq	op	*
	Dungeness ...	1028·1	36	NE	2	o	1020·8	-3	43	+5	S	5	-	ou	4	-	43	31	bc.o	o	o.c.bc.o	*
	Dover	1028·8	33	E	1	bc	1022·7	-2	36	+2	SW	2	SW	o	2	-	37	30	bc.c	c.bc	oc.bc.c.o	0·0
	Wick	1016·4	46	S	3	o	1005·5	+1	41	-4	-	0	-	o	3	0·3	47	40	ogm.cp	cm.om	bcp.om	*
	Nairn	1017·2	49	SW	1	oq	1007·3	*	39	-8	SW	1	-	cq	2	4	50	38	cq	cq	ouqp	0·0
	Aberdeen ...	1020·6	45	S	4	bc	1008·3	-4	42	0	SSW	4	-	o	3	-	48	42	bc.bq	bq.bc	bc.o	2·0
	Leith	1022·0	46	SW	2	o	1007·7	-4	44	-1	SW	2	SW	c	3	-	49	44	c.oq.o	o	o.c.bc	*
	Tynemouth ...	1023·3	42	WNW	3	cmq	1012·9	-4	39	-6	SSW	3	-	ogm	3	-	44	37	ogm	ogm	cgm	*
	Spurn Head ...	1028·4	42	S	3	o	1018·3	-5	34	-7	SSW	5	-	om	4	-	42	34	m.o	om	bm	0·0
	Yarmouth ...	1028·4	36	SE	1	o	1021·1	-2	35	-5	SW	3	-	cm	2	-	40	34	cm	om	om.bc	0·0
	Clacton-on-Sea	1028·9	38	N	1	o	1021·5	-2	37	-3	SSW	3	-	o	2	-	41	33	oq	oq	oq	0·0
	Nottingham ...	1027·7	40	SSE	1	o	1018·1	*	37	+7	SSW	2	SW	o	*	-	40	29	f.m.o	om.	o	0·0
	Benson (Oxon.) ...	1028·3	38	SE	1	m	1019·9	-3	37	+2	S	3	-	o	*	9	41	33	m	m	cm	*
	Sth Farnborough	1028·1	38	E	1	m	1020·2	-4	37	-1	S	2	-	omd	*	0·3	41	32	f.m	om	omd	0·0
	London (Kew Obsy.)	1028·4	40	SE	2	ogm	1020·4	-3	37	-3	S	1	-	om	*	-	41	32	om	om.ogm	ong.om	0·0
NORTHERN EUROPE.	Spitsbergen ...	997·4	9	-	0	o	988·2	+2	7	0	S	2	*	o	*	*	10	5				
	Vardö	998·6	30	WNW	8	b	990·7	-2	32	-2	WNW	9	-	o	3	*	36	25				
	Bodö	1008·0	43	SW	7	r	1001·5	-8	37	-2	SW	7	-	r	4	25	43	37				
	Christiansund	1018·0	48	SW	2	c	1007·1	-6	39	-4	-	0	-	c	3	-	48	39				
	Skudesnaes ..	1028·8	37	SE	6	o	1017·0	-6	34	-5	SSE	7	-	o	5	-	39	34				
	Færder (Christiania Fjord)	1031·0	36	SW	5	c	1022·0	-4	34	-3	SSW	4	-	o	2	-	37	32				
	The Scaw (Skagen)	1034·0	30	SSW	2	o	1023·5	-4	34	+2	SSW	4	-	m	4	-	34	28				
	Blaavands Huk	1032·3	27	ESE	1	b	1022·6	-3	34	+7	W	2	-	o	3	-	34	23				
	Haparanda ...	1015·0	32	S	4	bc	1006·3	-2	36	-1	SW	4	-	o	*	-	37	30				
	Hernösand ...	1022·4	19	-	0	b	1013·9	-3	14	-5	S	2	-	b	*	-	25	12				
	Stockholm ...	1029·9	32	WSW	4	o	1022·1	-4	27	-10	SW	2	-	b	*	-	37	27				
	Wisby	1032·4	32	WSW	2	b	1027·4	-3	30	-6	SSW	4	-	o	*	-	36	25				
	Karlstad	1031·7	34	—	0	o	1023·9	-8	27	-10	SW	4	-	o	*	-	37	23				
FRANCE, &c.	The Helder ...	1029·3	30	ESE	2	o	1021·1	-4	32	+2	S	3	-	r	1	-	32	28				
	C. Gris Nez ...	1028·3	32	E	2	m	1022·4	-2	41	+9	SSW	4	*	o	4	-	41	32				
	La Hève	1025·7	34	-	0	m	1022·3	*	37	+3	SW	4	*	o	3	-	39	36				
	Brest (St. Mathieu)	1028·2	46	SSE	3	c	1021·7	-3	47	+7	S	4	*	o	4	-	50	40				
	Rochefort (Ile d'Aix)	1028·6	37	NE	3	o	1026·6	0	36	0	SE	3	*	o	*	-	41	34				
	Biarritz	1027·3	46	-	0	o	1025·6	0	41	-1	—	0	*	o	3	-	48	41				
	Paris	1028·4	37	—	0	o	1026·1	-1	34	0	SSW	2	-	o	*	-	41	34				
	Belfort	1030·1	31	E	2	m	1029·0	*	34	+4	-	0	*	o	*	?	34	30				
	Lyons	1029·0	35	-	0	o	1028·8	*	35	+4	-	0	*	f	*	-	38	31				
	Nice	1029·2	42	NE	4	b	1029·0	0	38	-9	E	3	*	bc	4	-	48	37				
	Perpignan ..	1028·3	45	-	0	o	1028·0	0	37	0	-	0	-	m	*	-	50	36				
	Sanguinaire ...	*	57	W	2	m	*	*	50	+2	N	1	*	o	?	-	61	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1028·0	54	NNE	3	b	1025·6	-3	48	+9	SSW	2	SW	o	3	-	54	39				
	Madrid (8 a.m.)	1027·0	46	3	1	b	1029·7	+1	34	+2	NNE	1	-	b	*	-	46	32				
	Lisbon (9 a.m.)	1026·9	55	NNE	2	b	1027·0	0	45	0	N	2	-	b	?	-	57	45				
	Gibraltar	1026·7	56	E	3	b	1026·4	*	52	-4	E	3	*	c	2	Trace	59	52				
	Malta (8 a.m.) ...	*	*	*	*	*	1021·0	0	55	+1	ESE	5	-	o	5	4	55	50				
	Azores (Horta, 8 a.m.)	1025·0	*	NNE	5	r	1027·3	0	56	+1	-	0	*	o	2	7	61	54				
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		31st January, 8 P.M. G.M.T.					1st February, ..., 7 A.M. G.M.T.															
ITALY.	Venice	1032·3	39	NE	3	b	1032·0	0	39	+2	NE	3	*	o	4	-	*	*				
	Turin	1032·3	37	—	0	o	1032·9	0	34	-3	-	0	*	3	*	-	*	*				
	Florence	1028·0	46	E	3	o	1028·1	0	45	0	N	3	*	o	*	-	*	*				
	Pesaro	1031·0	41	SW	3	r	1030·6	0	41	+4	-	0	*	o	3	3	*	*				
	Leghorn	1028·5	46	E	3	b	1028·8	0	45	0	NE	3	*	b	4	-	*	*				
	Rome	1027·9	50	NE	3	o	1028·6	0	45	+4	NE	3	*	r	*	6	*	*				
	Brindisi	1029·2	54	-	0	bc	1030·8	0	48	-2	-	0	*	f	1	-	*	*				
	Cagliari	1023·9	52	SE	3	bc	1024·6	0	45	-5	NNW	3	*	bc	3	-	*	*				
	Palermo	1022·6	50	—	0	o	1025·4	0	54	+8	-	0	*	c	1	Trace	*	*				

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

GALES.
Duration and Extreme Force in British Islands.

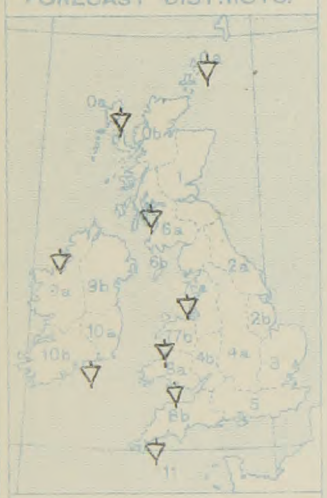
Stornoway
1st Between 6pm & Midt Squalls SSE 8.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



0 a, 0 b	Westerly and Southerly breezes, freshening again; fair to dull, some rain and mist; mild.
1, 2 a, 2 b, 3, 4 a, 4 b, 5	Southerly and South-Westerly breezes, fresh at times locally; cloudy to dull, some showers and mist, mild.
6 a, 6 b	Same as No. C.
7 a, 7 b, 8 a, 8 b	Fresh to strong South-Westerly wind, veering Westerly temporarily and moderating; dull, some rain and mist; mild.
9 a, 9 b, 10 a, 10 b	North-Westerly breeze, backing South-Westerly and freshening again later; cloudy to dull, some rain and mist; mild.
11 Western Channel and Bay	Southerly and South-Westerly breezes, fresh to strong at times; sea moderate to rather rough; cloudy to dull, some rain, mist or fog; mild.

STORM WARNINGS.

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

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

Warnings Issued at 7.30 p.m.

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

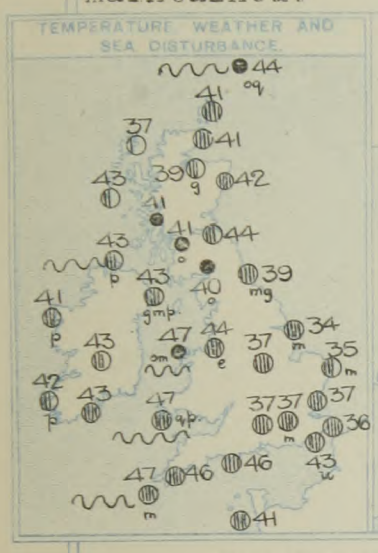
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 2ND FEBRUARY, 1916.

GENERAL INFERENCE.

At the Irish stations the barometer has ceased rising, and it is probable therefore that the less settled conditions will be maintained.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∼∼. High ≈≈.

LOW

990 mb.

995 mb.

1000 mb.

1005 mb.

1010 mb.

1015 mb.

1020 mb.

1025 mb.

HIGH

Bar falling

Bar rising

Barometer falling generally

Scale of Tints for FEBRUARY.

Issue No. 19,795

DAILY WEATHER REPORT.

Wednesday, 2nd February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	31st Jan.; AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	1st Feb.; AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1016·9	12	SSW	2	c	1003·4	-7	30	+7	W	4	*	0	0	-	*	*
Uleaborg	1018·0	32	E	6	b	1018·0	+3	30	+11	SW	5	*	bc	*	-	*	*
Helsingfors ...	1051·0	28	W	2	f	1028·7	-2	32	-2	WNW	3	*	b	0	-	*	*
Hangö	1032·6	30	-	0	f	1030·0	-2	32	+2	WNW	2	*	bc	0	-	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1029·7	32	W	2	0	1027·7	-2	30	0	W	3	-	S	*	-	32	28
Moscow	1027·3	27	N	6	bc	1029·5	+1	23	-4	NW	4	*	0	*	-	*	*
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	1030·9	25	NNW	3	S	1030·3	0	30	+5	NNW	3	*	0	*	-	*	*
Kishinev	1033·1	23	NW	2	bc	1038·4	+1	21	-6	-	0	*	b	*	-	*	19
Elisabetgrad ...	1036·7	27	WNW	2	b	1034·6	0	28	+3	NW	3	*	0	*	-	*	28
Nicolaiev	1038·1	25	-	0	b	1035·5	*	27	0	NW	3	*	c	0	-	*	21
Odessa	1038·4	27	N	2	b	1036·6	-2	23	-4	NNW	3	*	b	0	-	*	19

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	49	41	oc	o	0·0
	Banff	-	49	34	bc.b	b.bc	2·4
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	42	38	m.o	o	0·0
	Skegness	0·3	41	38	og	ogu	0·0
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	43	37	of o	c.o	0·0
Midlands.	Buxton	-	43	35	cm	cm	0·0
	Leamington Spa	-	41	28	of	of	0·0
	Malvern	-	42	39	o	o	0·0
	Ross-on-Wye	-	45	39	m.o	o.bc	0·0
Wales.	Rhyl	-	47	37	b	bc	0·3
	Colwyn Bay	-	47	41	bc	bc	0·0
	Llandudno	-	47	42	c	c	0·0
	Aberystwyth	-	46	41	o.c	c.o	0·0
	Tenby	-	46	43	cg	o	0·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	40	36	o.c	c.o	0·7
	Felixstowe	0·2	41	31	om	om	0·0
	Walton-on-Naze	0·2	40	36	o.c	o.c.og	0·0
	Southend-on-Sea	-	41	39	og	og	0·0
England, S.E.	Margate	-	39	37	o	o.c	0·0
	Ramsgate	0·3	39	35	o	o.og	0·0
	Hastings	-	40	34	bc.o	o	1·0
	Eastbourne	-	41	37	o	o.bc.o	0·5
	Seaford						
	Brighton						
	Worthing	-	42	37	bc	c.o	1·8
	Littlehampton	-	43	37	o.bc	bc.o	1·4
	Bognor	-	42	36	o.bc	bc	1·9
	Southsea	-	42	34	o	o	0·0
	Bournemouth	-	42	39	f.o	o	0·0
England, S.W.	Weymouth	-	44	36	om	om	0·0
	Torquay	-	45	42	o	o	0·0
	Paignton	-	44	42	of	of	0·0
	Penzance	-	46	43	o	o	0·0
	Newquay	*	45	40	o	o	0·0
	Ilfracombe						
	Weston-super-Mare ...	-	45	40	o.c	om	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 Hours ended 9 A.M. To-Day.)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	77	92	0·1	41	29	29	-	o	o	o.od
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	79	93	0·0	43	32	30	-	m	m	m.od
Camden Sq. (Brit. Rainfall)	77	92	0·0	43	31	35	Trace	o	o	*
Hampstead (Reservoir) ...	*	94	0·0	39	30	31	-	o	oc	oc
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	92	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
74 Joules	2·2 Milliwatts.	8 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	44	36	30	ou.cf	f.c	cm	0·0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	0·3	45	43	41	o	o	o	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	45	41	35	o.om	o.ogn	ogn.om	*

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

2nd & 3rd February, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·36 / 7·35	12·7 / 12·7	4·38 / 4·39
Greenwich	7·39 / 7·38	12·14 / 12·14	4·49 / 4·50
Wick	8·19 / 8·17	12·26 / 12·26	4·33 / 4·35
Valencia	8·23 / 8·21	12·55 / 12·55	5·29 / 5·29

NOTES ON YESTERDAY'S WEATHER.

The maximum temperature ranged from 37° at Dover to 52° at Valencia. A little rain fell in the North and West. Bright sunshine was almost entirely absent.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 34.

Thursday, 3rd February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1003·9	42	WSW	4	bc	997·0	-4	42	-2	SW	5	SW	bc	4	3	44	38	bcp	bc	bcq	*
	Deerness (Orkney)	1004·7	38	SW	4	b	990·5	*	40	-1	SE	7	–	ouq	6	–	45	38	o.c.bc	bc.b	b.bc.c.o	3·2
	Stornoway ...	1002·6	42	SW	5	b	983·3	-12	43	+6	S	7	–	cq	6	1	44	36	bc.b	b.p.	odp.oq	5·1
	Castlebay (Barra Isd.)	1004·5	45	SSW	4	op	982·3	-13	42	-1	SE	7	–	r	6	4	46	41	bc	bc.o.p	op.b.or	4·9
	Glasgow ...	1008·8	39	SW	1	b	992·8	-10	40	-1	SSE	2	–	og	*	1	44	36	odp.c	c.bc.bq	b.bc.c.o	2·2
	Eskdalemuir ...	1010·1	33	–	0	b	994·2	-10	39	-1	SSE	4	–	om	*	9	43	28	or.o.bc	bc.b	b.bc.c.o	3·7
	Malin Head ...	1007·5	41	SW	4	bc	981·6	-15	40	-3	S	8	–	omq	7	–	47	37	bc	bc	omq	6·4
	Blacksod Point	1006·2	43	SSW	4	c	977·0	-12	49	+6	S	8	–	omr	6	13	47	38	bc	cv	bc.omr	*
	Valencia ...	1009·4	43	S	2	o	983·7	-14	49	+7	S	7	–	or	*	16	50	39	bcv	cv	cp.or	4·6
	Roche's Point	1012·1	45	WSW	2	b	990·7	*	48	+5	SSW	7	–	r	6	6	49	43	bc	bc.b	b.or	*
	Birr Castle ...	1010·3	39	SW	1	c	987·2	*	45	+2	SSE	4	–	r	*	3	46	38	c	c	or	5·2
	Donaghadee ...	1009·2	39	WSW	3	bcm	990·5	-12	42	-1	S	5	–	omrq	3	1	45	35	bcm	bcm	bcm.or	*
	Liverpool (Bidston)	1011·5	42	WSW	1	bc	998·1	-4	45	+1	SSW	2	W	od	2	3	46	40	or	om	c.od	0·0
	Holyhead ...	1011·7	41	–	0	bz	995·1	-7	45	-2	SSW	6	–	ouq	6	4	47	39	or.omp	op.o.c	c.od.o	1·2
	Pembroke (St. Ann's)	1012·4	44	WNW	1	c	998·7	-4	47	0	SSW	6	SW	cqp	5	12	48	42	oqp	ogmr	cqp	0·0
	Scilly (St. Mary's)	1011·6	48	S	5	omp	1000·4	-9	47	0	SSW	6	SW	cp	6	1	50	44	op	omp	omp.c	0·0
	Falmouth ...	1013·0	49	SSW	4	cm	1002·4	-7	45	-1	SSW	3	–	bc	*	3	50	42	or	or.od.c	odr.cp	0·1
	Jersey (St. Aubin)	1018·7	45	S	3	ogdp	1008·6	*	49	+8	S	5	–	og	4	1	49	41	ogdp	ogdp	ogdp.o	0·0
	Portland Bill ...	1016·0	46	SSW	4	c	1005·7	-4	46	0	SW	5	SW	cp	5	2	46	43	c	cp	cr.o	*
	Dungeness ...	1018·1	43	S	6	oq	1009·8	-5	44	+1	S	6	SW	cqp	6	0·4	44	43	o.c.o	o.c.o	oqp	*
	Dover	1018·7	43	SSW	6	o	1010·7	-4	44	+8	SSW	6	SW	o	6	1	46	36	o	o	odp	0·0
	Wick	1006·7	36	W	2	b	991·1	-10	39	-2	S	5	–	bc	4	–	46	35	bc.om	bc	bc	*
	Nairn	1006·0	36	–	0	bc	990·1	*	40	+1	W	3	–	cu	2	0·2	42	32	c.bc	bc	b.bcx	5·5
	Aberdeen ...	1007·2	37	W	2	b	994·4	-9	41	-1	SSE	5	–	o	3	1	44	32	omr.bc	h.c.b.	b.o	1·1
	Leith	1009·4	39	SW	1	bc	993·5	-6	38	-6	SW	1	SW	c	2	–	41	35	c.odp.c	bc	bc	*
	Tynemouth ...	1008·7	43	WNW	2	cm	996·7	-6	45	+6	S	4	–	omd	3	–	46	37	cmq	cm	bm	*
	Spurn Head ...	1012·2	43	SSW	5	omr	1002·5	-2	43	+9	SW	6	–	orq	6	2	43	39	omr	omr.	m.or	0·0
	Yarmouth ...	1016·0	42	SW	4	o	1008·4	-8	44	+9	SW	7	–	om	6	–	44	33	cm	omd	bm.om	0·0
	Cleacton-on-Sea	1018·0	42	SSW	4	o	1008·8	-6	44	+7	S	5	–	o	4	–	44	37	ogd	og	o.c.oq	0·0
	Nottingham ...	1013·1	44	SSW	3	o	1001·7	*	48	+11	SW	4	SW	c	*	3	48	36	or	r.o	op	0·0
	Benson (Oxon.) ...	1015·5	43	SSW	4	o	1008·3	-5	46	+4	SSW	5	–	r	*	1	46	37	o	o	c.or	*
	Sth Farnborough	1016·4	43	SW	4	r	1006·2	-6	46	+9	S	6	–	o	*	2	46	37	r.m.o	or	r.or.o	0·0
	London (Kew Obsy.)	1016·7	44	SW	4	o	1006·5	-6	47	+10	SSW	6	–	oq	*	0·4	47	37	omomdomq	o	o.od.o	0·0
NORTHERN EUROPE.	Spitsbergen ...	990·3	5	S	1	o	990·7	0	-2	-9	–	0	*	o	*	*	7	-4				
	Vardö	996·2	30	N	3	o	981·5	-8	30	-2	SSW	3	–	o	3	*	34	28				
	Bodö	990·3	41	SW	4	c	993·6	0	36	-1	SW	4	–	c	3	?	41	34				
	Christiansund	1001·2	41	SW	4	c	999·8	-2	37	-2	SSW	2	–	b	4	–	46	37				
	Skudesnaes ..	1007·7	37	SE	7	o	1003·0	0	36	+2	–	0	–	c	4	7	39	34				
	Færder (Xiania Fjord)	1010·4	36	SSW	5	o	1006·3	-3	36	+2	SE	4	–	o	3	–	36	32				
	The Scaw (Skagen)	1015·9	32	SW	3	o	1007·5	-3	37	+3	SW	5	–	r	5	3	39	30				
	Blaavands Huk	1015·9	36	SW	2	o	1012·2	0	39	+5	SSW	4	–	o	4	3	39	32				
	Haparanda ...	1000·7	25	SW	4	o	995·3	0	27	-9	SW	6	–	bc	*	–	36	18				
	Hernösand ...	1006·4	30	–	0	b	1005·0	0	28	+14	SSW	2	–	c	*	–	32	10				
	Stockholm ...	1017·1	28	S	2	c	1010·9	-1	30	+3	SW	2	–	o	*	Trace	30	27				
	Wisby	1020·0	30	SSW	2	o	1014·0	-2	34	+4	WSW	4	–	o	*	2	34	28				
	Karlstad	1016·0	30	SW	2	c	1009·2	-4	30	+3	S	2	–	o	*	Trace	32	27				
FRANCE, &c.	The Helder ...	1017·9	41	SSW	6	r	1012·6	-3	36	+4	S	4	–	o	3	4	41	32				
	C. Gris Nez ...	1019·9	39	S	4	o	1011·0	-5	42	+1	S	6	*	o	5	1	43	37				
	La Hève	1018·3	39	SSW	5	m	1010·9	*	39	+2	S	5	*	c	4	–	43	41				
	Brest (St. Mathieu)	1016·0	50	S	6	r	1007·9	-5	48	+1	SW	5	*	c	4	4	50	46				
	Rochefort (Ile d'Aix)	1023·7	45	S	4	o	1017·2	-4	43	+7	SSE	5	*	o	*	–	45	41				
	Biarritz	1023·1	49	E	1	o	1019·3	-1	49	+8	SSE	2	*	b	3	–	54	39				
	Paris	1024·4	36	S	3	o	1018·4	-2	37	+3	S	2	–	o	*	–	39	32				
	Belfort	1027·3	37	W	2	m	1025·2	*	37	+3	–	0	*	b	*	–	47	31				
	Lyons	1027·0	42	–	0	o	1024·3	*	33	-2	–	0	*	b	*	–	49	33				
	Nice	1028·0	48	–	0	o	1027·0	-1	43	+5	–	0	*	o	3	–	52	41				
	Perpignan ..	1026·3	43	–	0	b	1022·1	-2	30	-7	–	0	–	m	*	–	50	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·9	52	SSW	5	r	1015·0	-6	50	+2	SSW	2	–	o	4	3	52	46				
	Madrid (8 a.m.)	1025·2	46	–	0	b	1026·1	+1	32	-2	NNE	1	–	b	*	–	46	30				
	Lisbon (9 a.m.)																					
	Gibraltar	1025·7	53	SW	2	m	1023·3	*	47	-5	W	2	*	b	2	–	60	47				
	Malta (8 a.m.) ...	*	*	*	*	*	1019·3	-1	55	0	ENE	5	–	r	6	9	57	52				
	Azores (Horta, 8 a.m.)	1025·6	*	S	5	c	1023·7	-2	56	0	W	6	*	o	4	1	64	55				
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		...1st..., 8 P.M. G.M.T.					...2nd Feb:..., 7 A.M. G.M.T.															
ITALY.	Venice	1032·3	41	N	3	o	1030·9	0	39	0	–	0	*	o	2	1	*	*				
	Turin	1032·9	36	–	0	b	1032·7	0	32	-2	–	0	*	b	*	–	*	*				
	Florence	1028·9	45	NE	3	o	1028·5	0	43	-2	–	0	*	o	*	–	*	*				
	Pesaro	1031·1	41	NNW	3	o	1031·4	0	41	0	W	4	*	o	4	–	*	*				
	Leghorn	1030·0	45	NE	4	o	1029·3	0	46	+1	NE	4	*	o	4	1	*	*				
	Rome	1028·8	46	N	3	b	1028·2	0	39	-6	N	3	*	b	*	5	*	*				
	Brindisi	1029·3	62	–	0	b	1027·6	0	43	-5	NNW	3	*	b	2	–	*	*				
	Cagliari	1024·4	54	N	4	bc	1024·6	0	45	0	NNW	4	*	b	3	–	*	*				
	Palermo	1025·9	48	N	3	f	1024·6	0	46	-8	–	0	*	c	1	–	*	*				

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

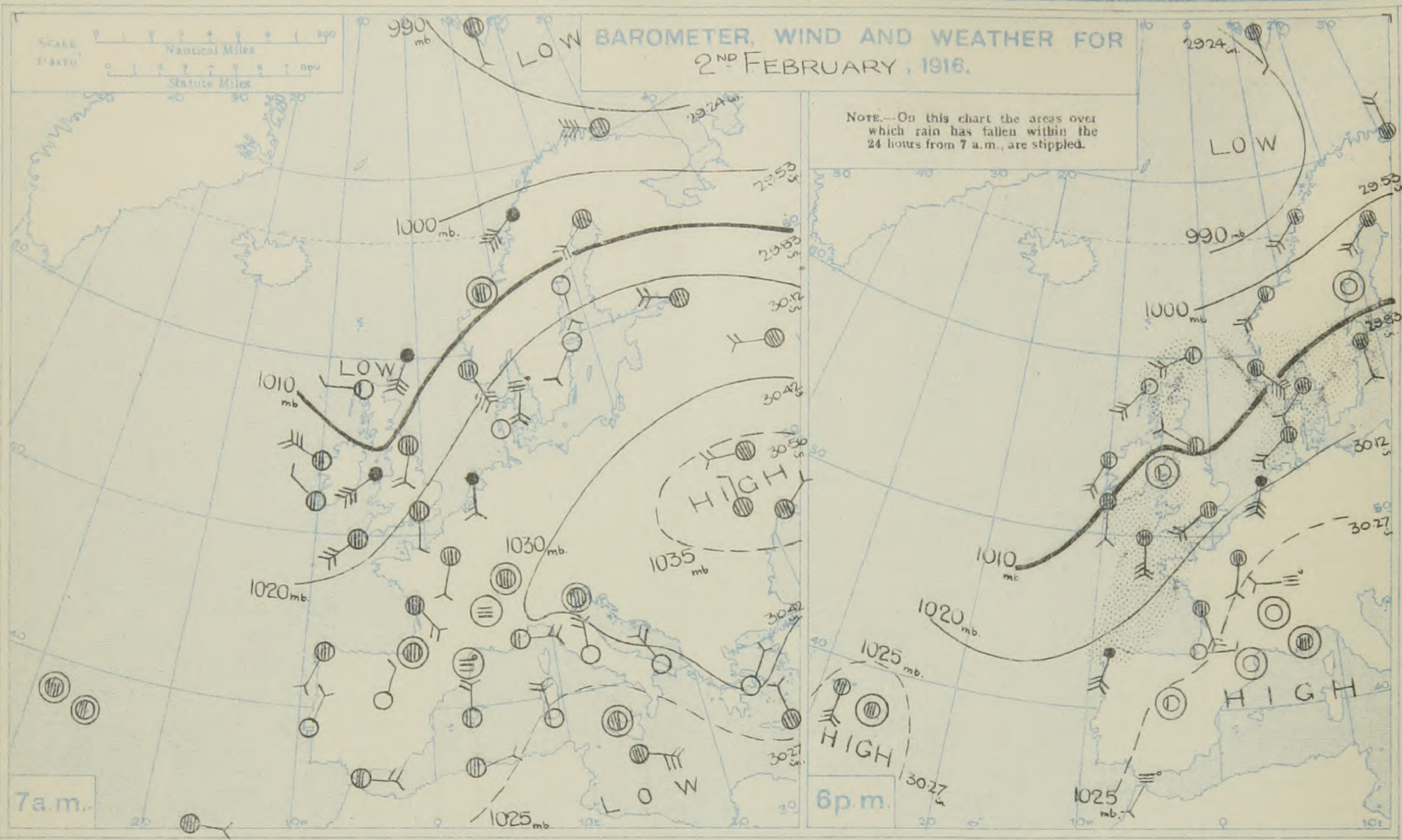
GALES
Duration and Extreme Force in British Islands.

Malin Head
3rd 5a.m.-7a.m S 8

Blacksod Point
3rd 10a.m.-7a.m SSW 8

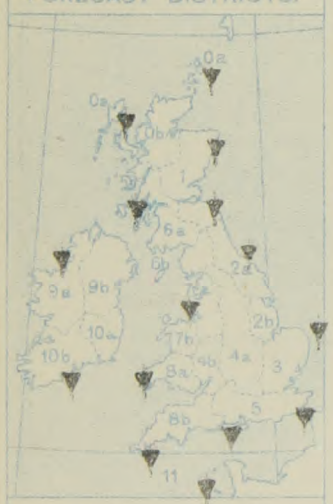
London (Kew Obsy)
Gust SSW 8 @ 6.50a.m. 3rd.

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



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

Warnings Issued

1 a.m. to Districts 0, 6, 7, 8, 9, 10.

8 a.m. to Districts 0a, 1, 2, 3, 5, 11.

0 a, b	Squally Southerly and South-Westerly winds, strong to gale; dull, some rain and mist; mild.
1	
2 a, b	
3	
4 a, b	
5	
6 a, b	
7 a, b	
8 a, b	
9 a, b	
10 a, b	
Western Channel and Bay 11	Squally Southerly and South-Westerly wind, high sea and swell; dull, some rain, mist or fog; mild.

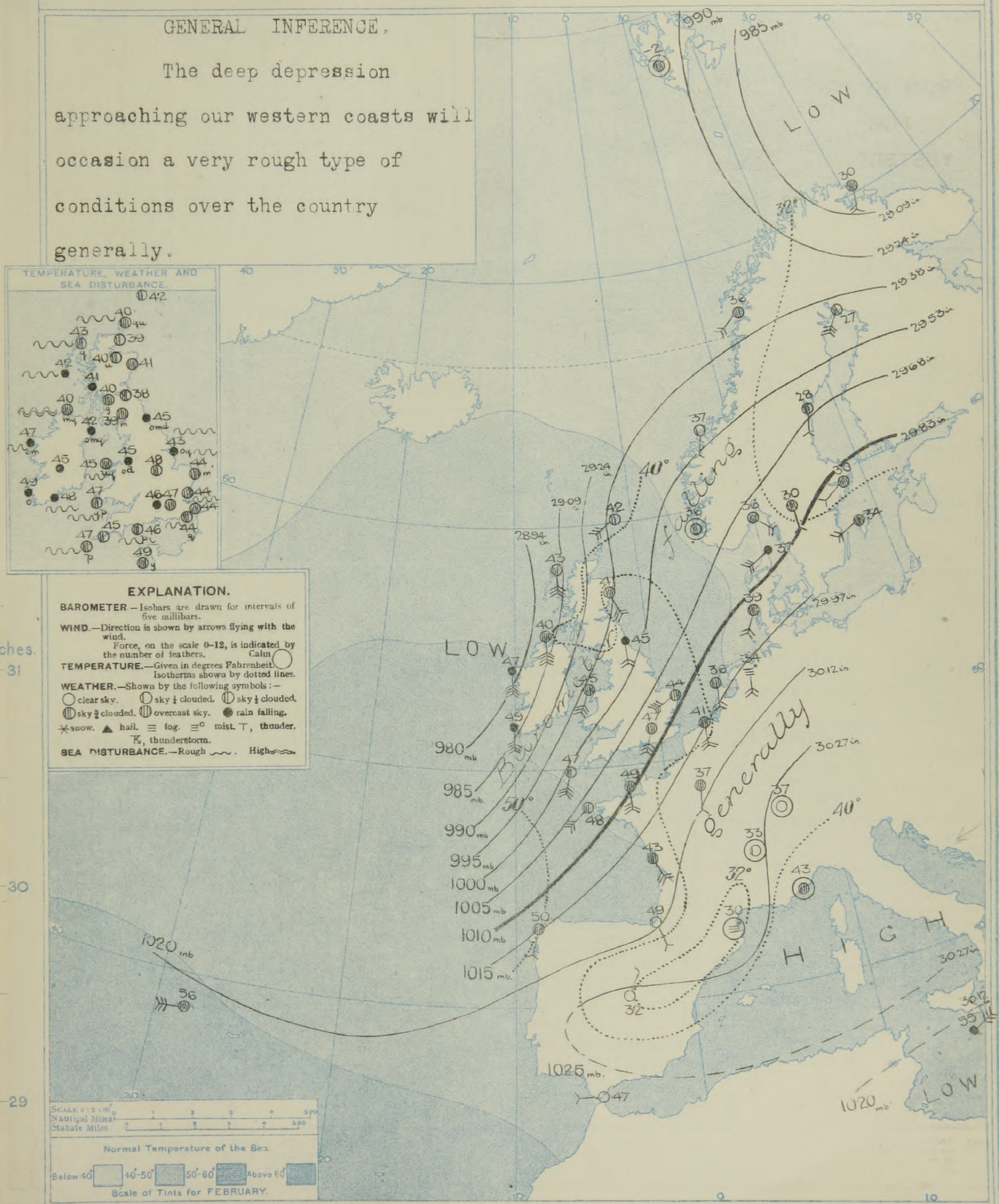
Millibars / Inches: 1050 (31), 1040, 1030, 1020 (30), 1010, 1000, 990, 980 (29), 970

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 3RD FEBRUARY, 1916.



Issue No. 19,796

DAILY WEATHER REPORT.

Thursday, 3rd February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	1st. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	2nd. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1016·8	28	SW	3	b	1010·3	+1	25	-5	SSW	4	*	bc	*	–	*	*
Helsingfors ...	1028·8	30	–	0	b	1023·9	-5	30	-2	WNW	3	*	o	o	–	*	*
Hangö	1028·3	28	W	2	o	1022·3	-4	30	-2	SW	4	*	o	o	–	*	*
Riga	1033·8	34	–	o	o	1030·5	-3	32	.	–	o	*	o	o	–	*	*
Petrograd	1028·7	30	W	4	o	1028·8	-4	30	o	WNW	4	–	o	*	–	52	28
Moscow	1027·0	32	NW	4	o	1028·3	o	38	+15	WNW	3	*	o	*	–	*	27
Kiev	1036·7	32	NW	2	c	1035·3	-1	30	.	WNW	3	*	o	*	–	*	27
Kharkov	1034·0	28	NW	1	b	1033·3	o	30	o	NW	2	*	o	*	–	*	*
Kishinev	1038·7	32	NW	2	o	1038·4	-1	32	+11	N	1	*	o	*	–	*	19
Elisabetgrad ...	1036·7	32	SW	3	S	1036·0	-1	32	+4	WNW	2	*	o	*	–	*	30
Nicolaiev	1036·6	32	N	3	o	1037·2	*	32	+5	–	o	*	o	o	–	*	21
Odessa	1037·2	32	ENE	3	o	1037·5	o	32	+9	ENE	2	*	o	*	–	*	30

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	8	46	40	p.bc	bc	4·6
	Banff	0·3	45	31	c.bc	bc.b	3·6
	St. Andrews	1	46	38	*	*	2·4
Eng. N.E.	Harrogate	2	43	34	o	o.c.	0·0
	Skegness	2	43	34	ogr	gr	0·0
Eng. N.W.	Morecambe	6	?	39	oc	r.o.c	0·0
	Blackpool						
	Southport	10	44	37	oc	r.cm	0·0
Midlands.	Buxton	11	41	34	cr	cr	0·0
	Leamington Spa	–	47	32	of.c	of.c	0·0
	Malvern	0·4	46	37	o	oc	0·0
	Ross-on-Wye	–	48	38	cm.o	oc	0·5
Wales.	Rhyl	4	48	40	p	p	0·0
	Colwyn Bay	5	47	42	bcp	cp	0·0
	Llandudno	13	48	42	cp	p.c	0·0
	Aberystwyth	7	46	42	r.oc	oc.	0·0
	Tenby	7	47	43	r	r	0·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	1	44	34	op.r	op.r	0·0
	Felixstowe	0·2	43	31	omp	om	0·0
	Walton-on-Naze	1	43	32	od	o.c.oc	0·0
	Southend-on-Sea	–	42	33	opz	o	0·0
England, S.E.	Margate	–	43	31	c	c	0·0
	Ramsgate	0·2	41	29	o	o	0·0
	Hastings	2	44	30	o4.0	c.o	0·0
	Eastbourne	–	44	30	o	o	0·0
	Seaford	Trace	45	30	o	o	0·0
	Brighton	1	44	34	o	o	0·0
	Worthing	0·3	44	36	c	c.o	0·0
	Littlehampton	2	45	37	o	o	0·0
	Bognor	1	44	38	or	or	0·0
	Southsea	1	45	38	o	o	0·0
	Bournemouth	2	46	32	r	o	0·0
England, S.W.	Weymouth	–	48	42	c	c	0·0
	Torquay	0·3	49	42	o	o	0·2
	Paignton						
	Penzance	2	49	44	op.r	op.r	0·0
	Newquay	*	48	40	o	o	0·0
	Ilfracombe						
	Weston-super-Mare ...	0·3	48	38	c.bc	r.c.o	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-day)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	78	93	0·0	46	43	37	1	o	o	od
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	93	0·0	47	41	36	2	oc	od	od
Camden Sq. (Brit. Rainfall)	77	93	0·0	47	41	38	1	or.c	bc.	*
Hampstead (Reservoir) ...	*	94	0·0	45	39	37	1	o	od	od
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·0							

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

	Vertical Component of Solar Radiation per square centimetre during Yesterday. Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.)	215 Joules	6·5 Milliwatts.	20 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	3	45	43	39	or.c	c.b	b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	–	49	42	35	o	c	c	0·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	46	33	32	o.c.bc.o	o.or.g	o.om	*

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

3rd & 4th Febr., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.35 / 7.34	12.7 / 12.7	4.39 / 4.41
Greenwich	7.38 / 7.36	12.14 / 12.14	4.56 / 4.52
Wick	8.17 / 8.15	12.26 / 12.26	4.35 / 4.37
Valencia	8.21 / 8.19	12.55 / 12.53	5.29 / 5.31

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° at a few stations. Small amounts of rain fell in most districts, 16 mm. at Valencia. Sunshine was limited to Ireland and Scotland. A Southerly gale was felt in the North of Ireland in the night.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 35

Friday, 4th February.

STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F	Wind Direc.	Wind Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer Millibars at M.S.L.	Change in 3 hours.‡	Temp. Dry Bulb. °F.	Change in 24 hours °F.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.																					
Lerwick	981·3	45	S	6	om	974·9	−1	45	+3	S	7	—	omq	5	3	48	40	mp	omg	omqp	*
Deerness (Orkney)	975·9	44	S	7	oguq	969·2	*	44	+4	S	7	—	cq	7	—	45	41	ouq	oguq	o.cq	0·0
Stornoway	970·2	47	SSW	6	cq	967·9	+11	38	−5	SW	5	—	cq	5	23	47	35	orq	or.cqp	or.cqp	0·0
Castlebay (Barra Isd.)	970·6	48	S	5	op	969·7	+5	43	+1	SSW	4	S	c	4	23	48	38	r.op	op	op.r.c	0·0
Glasgow	977·4	45	SSE	4	o	976·0	+6	39	−1	SW	1	—	og	*	4	46	38	rd.r	odp.o	o.cqp.o	0·0
Eskdalemuir	980·9	42	SE	6	or	977·0	0	36	−3	SSW	2	S	c	*	15	43	36	n.o.or	or	or.o.c	0·0
Malin Head	970·7	45	S	3	omr	971·7	+3	38	−2	S	5	S	cq	5	9	47	36	cq	om	cq	0·4
Blacksod Point	969·4	42	W	5	omr	973·3	+4	40	−7	WSW	5	W	cqp	4	10	48	37	cmp	cmp	cqp	*
Valencia	972·8	42	SW	5	r	977·2	+5	40	−9	NNE	1	SW	op	4	15	51	38	or.p	op	op.d.cp	0·0
Roche's Point	976·8	44	WSW	4	r	977·3	*	40	−8	NW	1	—	b	4	14	50	38	or.o	or.o	op.b	*
Birr Castle	971·2	46	S	3	r	975·9	*	32	−13	SW	1	—	c	*	9	51	32	or	or	or.cx	0·0
Donaghadee	975·3	48	S	6	omqp	976·5	+3	35	−7	WSW	3	—	bcm	3	3	48	35	omqp	omqp	bcmqp	*
Liverpool (Bidston)	982·9	46	SE	4	o	977·8	−2	41	−4	SE	1	SE	o	1	0·1	47	41	oq	o	c	0·0
Holyhead	978·1	48	S	7	omqp	976·5	0	44	−1	SW	2	–	o	o	14	48	43	op.orq	or.oqp	op.o.b.o	0·0
Pembroke (St. Ann's)	977·8	48	S	8	omqr	977·2	−1	40	−7	NE	1	–	or	1	21	48	39	oqr	omqr	op	0·0
Scilly (St. Mary's)	982·1	47	SW	4	omq	977·7	0	44	−3	W	4	W	cq	5	24	50	38	omrq	omrq	bc.orq	0·0
Falmouth	983·2	49	SSW	3	r	979·6	+6	37	−8	SW	1	—	c	*	53	49	36	qr	qr	rq.bc	0·0
Jersey (St. Aubin)	998·3	49	S	6	oqp	984·1	*	47	−2	SW	6	SW	c	5	9	53	47	p.o.oqq	oqp.cp	oqp.c	1·0
Portland Bill	991·8	48	SSW	7	or	978·1	−1	47	+1	SW	7	SW	bcp	6	14	50	45	c	c.or	or.c	*
Dungeness	1001·3	47	S	7	bq	984·9	−3	46	+2	SSE	9	—	oq	7	7	48	44	bcq	bcq	c.orq.o	*
Dover	1000·4	47	SW	7	b	987·4	−2	45	+1	S	8	S	c	7	3	48	38	qo.r	c.bc.b	bc.cp.o	0·0
Wick	976·7	44	SE	5	o	970·7	+3	44	+5	SSW	5	S	o	5	—	45	39	bc.ogm	ogm	ogm	*
Nairn	974·9	48	SE	3	cq	972·0	*	38	−2	—	0	—	bc	1	—	48	36	q.c.bc	bc.c	qu.c	0·0
Aberdeen	980·4	44	SSE	5	oqp	976·0	+5	42	+1	S	4	—	c	4	2	45	41	omrq	oqp	oqp	0·0
Leith	979·7	46	S	2	o	976·0	+3	41	+3	SW	1	SW	c	2	—	48	37	o.oq.o	oqq.o	o.cq.c	*
Tynemouth	984·9	47	S	5	omqq	978·7	0	43	−2	SSW	2	—	ogm	5	1	47	43	cmq	cmq	ogm	*
Spurn Head	991·5	45	SW	7	o	979·5	−3	45	+2	SW	7	—	orq	7	2	46	43	oqp	oqp	oq	0·4
Yarmouth	998·5	46	SW	8	c	984·2	−3	44	0	SSW	9	—	or	8	2	46	43	cm	bc.cm	bcq.or	0·3
Clacton-on-Sea	999·7	47	SSE	7	o	984·7	−5	46	+2	SSE	8	S	o	5	2	47	44	og	og	o.c.oqr	0·2
Nottingham	990·5	48	S	5	r	978·0	*	43	−5	E	2	E	r	*	7	51	42	c.o	op	or	0·4
Benson (Oxon.)	993·3	46	S	6	r	979·4	−1	46	0	S	3	—	r	*	20	48	45	r.o	or	r	*
Sth Farnborough	994·9	46	SW	6	r	980·5	?	49	+1	S	6	—	o	*	18	48	45	r	or	r	0·0
London (Kew Obsy.)	995·8	47	S	5	r	981·5	−5	47	0	S	5	—	o	*	10	51	45	o.or.oq	oq.orq.or	orq.or	0·0
NORTHERN EUROPE.																					
Spitsbergen	995·7	5	—	0	o	1004·2	+3	0	+2	S	1	*	c	*	*	5	−6				
Vardö	986·4	34	W	9	s	996·4	+6	34	+4	S	10	—	o	2	*	36	30				
Bodö	995·5	36	SW	4	bc	996·7	+2	36	0	E	4	—	c	2	7	37	32				
Christiansund	995·3	39	SE	2	o	989·9	0	45	+8	SE	4	—	o	4	—	41	37				
Skudesnaes	995·1	41	SSE	9	r	989·7	−3	43	+7	SE	10	—	o	7	2	41	36				
Færder (X'ania Fjord)	1006·0	37	SSW	5	o	1002·0	−2	37	+1	SSE	6	—	m	4	—	37	36				
The Scaw (Skagen)	1008·0	36	SW	4	o	1003·0	−3	37	0	S	6	—	o	6	—	39	36				
Blaavands Huk	1007·1	39	S	4	o	999·7	−4	37	−2	SSE	4	—	b	4	Trace	39	36				
Haparanda	997·3	21	SW	4	bc	1002·6	+3	12	−15	SSW	2	—	c	*	—	27	12				
Hernösand	1004·3	21	—	0	b	1003·8	0	32	+4	S	2	—	s	*	Trace	34	14				
Stockholm	1010·0	36	SSW	2	o	1010·7	0	32	+2	S	2	—	f	*	Trace	36	30				
Wisby	1013·6	34	SW	4	o	1012·8	0	34	0	S	2	—	m	2	Trace	36	30				
Karlstad	1008·4	34	—	0	o	1007·3	−1	32	+2	SSE	2	—	bc	*	2	36	27				
FRANCE, &c.																					
The Helder	1004·7	43	SSE	5	c	992·8	−3	45	+9	SSE	6	—	c	3	—	48	28				
C. Gris Nez	1001·2	45	S	7	c	987·7	−4	45	+3	SSE	7	*	o	6	4	48	45				
La Hève	1000·6	?	S	?	?	985·3	*	45	+6	SSW	7	*	o	5	—	46	41				
Brest (St. Mathieu)	989·7	50	SSW	?	r	984·3	+2	44	−4	SW	5	*	bc	7	30	50	43				
Rochefort (Ile d'Aix)	1006·6	51	S	7	o	992·8	−3	47	+4	S	7	*	o	*	17	52	41				
Biarritz	1006·8	55	S	4	c	995·4	0	53	+4	SSW	5	*	o	4	1	57	50				
Paris	1008·2	48	S	4	b	995·8	−1	45	+8	SSW	5	—	r	*	1	52	36				
Belfort	1017·0	44	E	2	b	1007·0	*	35	−2	E	4	*	b	*	—	53	34				
Lyons	1017·0	47	SSW	4	b	1005·2	*	46	+13	S	6	*	c	*	—	53	46				
Nice	1023·7	45	E	1	b	1017·5	?	45	+2	E	4	*	r	5	2	54	41				
Perpignan	1017·1	50	S	2	b	1004·7	−5	50	+20	SSW	6	S	o	*	—	57	30				
Sanguinaire	*	53	E	3	c	*	*	50	.	E	3	*	b	2	—	57	46				
SOUTHERN EUROPE.																					
Corunna (7 a.m.)																					
Madrid (8 a.m.)	1020·4	45	W	2	c	1003·5	−10	45	+13	S	5	—	r	*	6	46	39				
Lisbon (9 a.m.)	1017·1	54	SW	5	o	1005·2	−6	57	+5	SW	7	—	o	?	6	57	54				
Gibraltar	1022·0	53	NW	3	b	1016·2	*	45	−2	W	7	*	r	6	—	63	46				
Malta (8 a.m.)	*	*	*	*	*	1012·2	−2	55	0	NE	6	—	r	6	24	57	52				
Azores (Horta, 8 a.m.)	1022·9	*	WSW	4	o	1024·0	+2	59	+3	—	0	*	o	2	—	63	59				
Madeira (Funchal)	1025·0	63	NNW	2	o	1023·1	−1	55	0	NW	3	—	b	3	—	66	55				
YESTERDAY'S REPORTS	2nd ... 8 P.M. G.M.T.					...3rd February... 7 A.M. G.M.T.															
ITALY.																					
Venice	1029·9	41	—	0	b	1028·4	0	36	−3	—	0	*	f	1	—	*	*				
Turin	1031·0	37	—	0	b	1029·2	0	32	0	—	0	*	b	*	—	*	*				
Florence	1029·6	41	—	0	b	1025·7	0	37	−6	—	0	*	b	*	—	*	*				
Pesaro	1030·7	43	W	3	o	1028·6	0	39	−2	—	0	*	b	3	—	*	*				
Leghorn	1028·8	48	—	0	b	1026·7	0	45	−1	—	0	*	b	3	—	*	*				
Rome	1029·9	46	—	0	b	1026·6	0	37	−2	N	3	*	b	*	—	*	*				
Brindisi	1027·1	52	NE	3	b	1027·9	0	45	+2	N	4	*	b	3	—	*	*				
Cagliari	1023·0	52	NE	4	r	1021·9	0	48	+3	NNE	4	*	r	3	8	*	*				
Palermo	1024·1	41	N	3	f	1028·8	0	48	+2	—	0	*	bc	1	—	*	*				

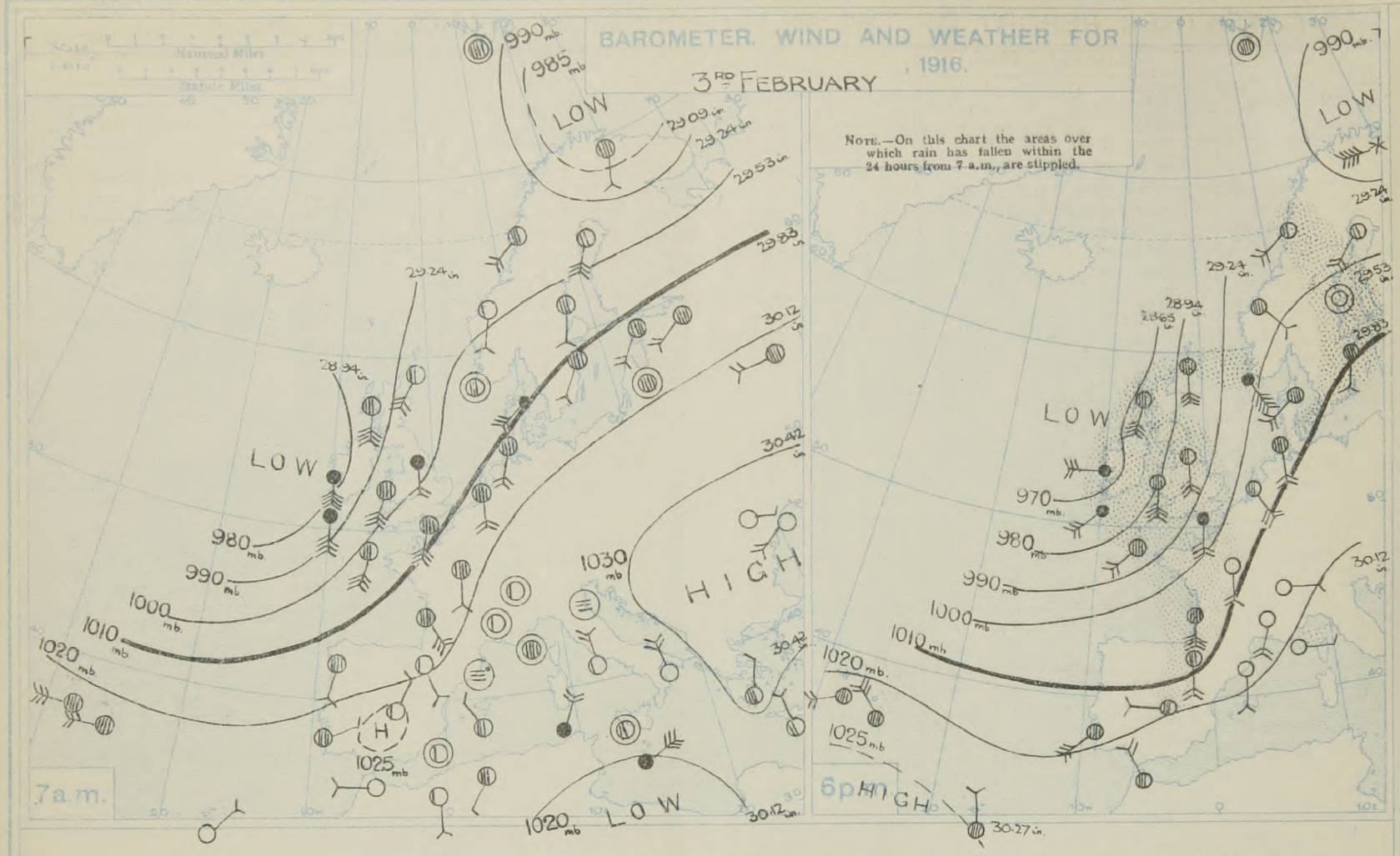
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.45 a.m.

1000 metres SW by S 50 miles per hour
500 " SW by S 40 " "

GALES
Duration and Extreme Force in British Islands.

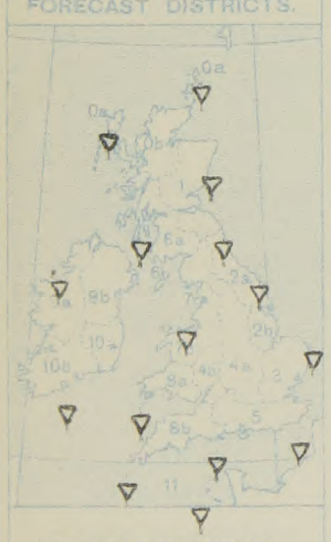
Deerness
During morning of 3rd, Squalls SSE 8.
Stornoway
During morning of 3rd, Squalls S 8
Eskdalemuir
3rd Noon – 1p.m S 8.
Malin Head
3rd 7a.m – 1p.m S 8
Blacksod Point
3rd 7a.m – 8a.m S 8
Holyhead
3rd 1p.m S 8
Gusts S 22 mps.
Pembroke
3rd 2p.m – 7p.m S 8
Jersey
3rd 7p.m – 4th early morning S 8
Portland
3rd 7p.m – Midt. S 8
3rd 9p.m S 9
Dungeness
4th 2a.m – 7a.m SSE 8
Ex. 4th 5a.m SSE 10.
Dover
4th 7a.m S 8
Aberdeen
3rd During day Gusts SSE 18 mps.
3rd 11p.m " SSE 22 mps.
Spurn Head
3rd 8p.m – 4th 3a.m SW 8
4th 7a.m SW 8 in Squalls
Yarmouth
3rd 8a.m – 7a.m 4th SW 8
Ex. 3rd 9p.m – 4th 7a.m SW 9
Clacton-on-Sea
4th 7a.m SSE 8
South Farnborough
3rd 2.45p.m & 4th 1.30a.m S 8
London (Kew Obsy.)
3rd 12.50 p.m Gusts SSW 18 mps.
3rd 9.25 p.m – Midt. S 9
London (S. Kensington)
4th Between 4a.m & 5a.m Gusts S 8

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



FORECASTS FOR THE 24 HOURS NOON 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.

Warnings Issued

1 a.m. to Districts 0, 6, 7, 8, 9, 10.

8 a.m. to Districts 0a, 1, 2, 3, 5, 11.

0 a, b	Moderating Southerly and South-Westerly breezes, variable later; changeable, some showers; temperature mild to cool.
1, 2 a, b	Fresh to light Southerly and South-Westerly breezes; changeable, some showers; mild.
3, 4 a, b, 5	Squally Southerly gale, moderating and veering South-West or West; fair to dull; some showers; mild.
6 a, b	Same as No. 0.
7 a, b, 8 a, b	Light variable breezes, doubtful later; fair to dull, some showers; mild to cool.
9 a, b	Same as No. 0.
10 a, b	Same as Nos. 7 and 8.
11	Southerly to Westerly wind, strong to gale, moderating; high sea and swell; changeable, some rain and mist; moderate temperature.

FURTHER OUTLOOK.

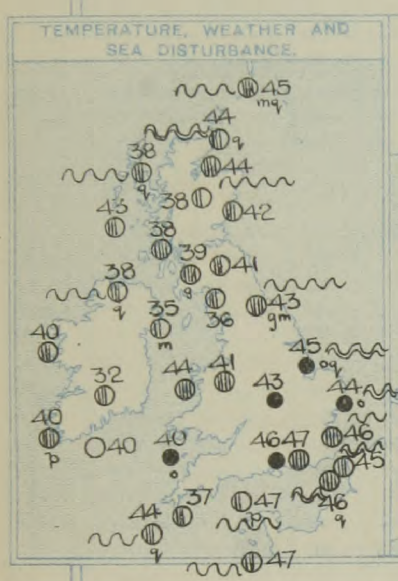
Millibars 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 4TH FEBRUARY, 1916.

GENERAL INFERENCE.

The distribution of pressure is becoming irregular, and changeable weather is probable during the ensuing 24 hours.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ~~~.

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

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

LOW

HIGH

Barometer falling

Barometer rising

970 mb. 975 mb. 980 mb. 985 mb. 990 mb. 995 mb. 1000 mb. 1005 mb. 1010 mb. 1015 mb. 1020 mb.

29·53 in. 29·68 in. 29·83 in. 29·97 in. 30·12 in.

Inches. 31 30 29

Issue No. 19.797

DAILY WEATHER REPORT.

FRIDAY, 4th FEBRUARY, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	2nd AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	3rd AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1003.5	28	SW	5	bc	997.9	-1	27	+2	WSW	6	*	c	*	–	*	*
Helsingfors ...	1016.7	32	WSW	4	o	1011.4	-5	32	+2	SW	3	*	o	o	–	*	*
Hangö	1018.5	32	WSW	5	o	1012.0	-6	32	+2	WSW	4	*	o	o	–	*	*
Riga	1024.0	28	SSW	2	o	1017.6	-4	30	-2	–	0	*	o	o	–	*	*
Petrograd	1018.4	28	WSW	3	b	1014.9	-2	30	0	WSW	3	–	o	*	–	30	27
Moscow	1022.9	30	WSW	3	o	1021.2	0	27	-11	W	3	*	o	*	–	*	25
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	1033.5	28	NW	2	o	1030.2	0	27	-3	W	3	*	o	*	–	*	*
Kishinev	1034.6	32	S	3	o	1032.4	-3	23	-9	ESE	1	*	b	*	–	*	23
Elisabetgrad ...	1034.7	30	W	3	o	1032.7	0	28	-4	W	3	*	o	*	–	*	27
Nicolaiev	1036.3	32	–	0	o	1034.1	*	32	0	WNW	2	*	o	o	–	*	30
Odessa	1036.6	32	WNW	1	o	1034.3	-1	32	0	WSW	3	*	b	o	–	*	30

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	47	36	r	or.o	0.0
	Banff	–	45	31	c	c.bc	0.0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	46	36	o.c.o	o.c.o	0.4
	Skegness	1	47	41	o.g.p	p.o	0.0
Eng. N.W.	Morecambe	0.1	48	37	d.o	o	0.0
	Blackpool						
	Southport	0.3	48	41	o.c.o	o.g	0.0
Midlands	Buxton						
	Leamington Spa	1	50	40	o.cd	o.p	0.5
	Malvern	5	48	42	o.o.g	r	0.0
	Ross-on-Wye	10	49	41	bc.c.o	or	1.1
Wales.	Rhyl	3	48	40	p	p.c	0.0
	Colwyn Bay	8	47	40	r	r	0.0
	Llandudno	6	50	39	cr.	r.p.g	0.0
	Aberystwyth	3	48	42	r.o.c	cr.o	0.0
	Tenby	12	49	44	r	r	0.0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	0.3	46	34	o.c.o	o.c	0.3
	Felixstowe	–	47	38	om	om	0.2
	Walton-on-Naze	0.1	46	42	bc.q.p.bc	bc.q	0.2
	Southend-on-Sea	.	49	43	p.o.c.bc	c	0.6
England, S.E.	Margate	–	48	38	o	o.cq	0.0
	Ramsgate	–	47	39	d	c	0.6
	Hastings	1	49	42	or.o	bc.o	0.4
	Eastbourne	1	49	43	o	o.b.o	1.0
	Seaford	1	49	43	o	o.or	1.1
	Brighton	1	49	43	o	o.c.o.c.bc	0.5
	Worthing	3	50	43	c	bc.c.o	0.6
	Littlehampton	1	49	46	c	o	0.0
	Bognor	2	40	33	bc.or	bc.or	0.7
	Southsea	3	51	42	o	o	0.0
	Bournemouth	8	50	42	r	or	0.0
England, S.W.	Weymouth	6	51	45	c	r	0.1
	Torquay						
	Paignton						
	Penzance	18	51	45	or	or	0.0
	Newquay	*	49	42	or	or	0.0
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 A.M. To-day)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	78	86	0.0	49	42	41	16	o.or	o.or	or
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	92	0.1	51	46	43	8	od	oc	or
Camden Sq. (Brit. Rainfall)	79	88	0.0	50	45	43	8	od.o	o.or	*
Hampstead (Reservoir) ...	*	85	0.0	48	37	39	9	op	omr	omr
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	81	92	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
13.8 Joules	4.2 Milliwatts	14 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2	51	38	33	bc.or	orq	r.o.c	*
Darwen to 9 p.m.	1	44	38	35	o.cur	oc	oc	0.0
Manchester ,,	1	49	40	*	or.o.c.o	o	orq	0.0
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	50	43	37	o.od	od.oq	oq.orq	*

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

4th & 5th February, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7. 33 7. 31	12. 7 12. 7	4. 41 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. 37 4. 40
Valencia	8. 19 8. 17	12. 55 12. 55	5. 31 5. 33

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or 51° in several localities. Rain varied greatly, up to 53 mm. at Falmouth. There was little or no sunshine. A Southerly gale was felt in many 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; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain, s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 36 { Saturday, 5th February,

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	979·3	44	SSW	4	om	989·9	+3	42	−3	S	4	S	bc	4	0·2	45	40	om	om	bc	*
	Deerness (Orkney)	978·0	42	S	4	bc	989·8	*	40	−4	S	6	–	b	5	–	45	38	cq.c	c.bc	bc.b	0·0
	Stornoway ...	976·7	41	SSW	5	bc	987·9	+7	40	+2	SW	5	–	bq	4	3	45	38	bcqp	bcqp	bc.bpq	2·3
	Castlebay (Barra Isd.)	978·2	45	SW	4	b	991·2	+10	44	+1	W	5	W	c	5	2	46	39	c.op.bc	bc.op.b	bc	1·0
	Glasgow ...	982·5	39	SW	2	c	996·5	+6	36	−3	SW	1	W	b	*	0·1	42	35	o	o.cq	chp.bc	0·1
	Eskdalemuir ...	984·1	37	SW	3	bc	998·1	+7	34	−2	SW	3	–	o	*	2	40	30	c.o	o.c.bc	bc.or	0·0
	Malin Head ...	981·2	40	SW	4	bcq	994·2	+7	40	+2	SSW	5	SW	cq	6	2	44	36	bcp	bcqp	cqp	4·1
	Blacksod Point	983·8	42	W	4	cph	997·3	+8	40	0	W	5	W	bc	4	2	45	37	bcp	bchp	bcqph	*
	Valencia ...	988·4	43	W	3	c	1003·3	+6	45	+5	WSW	4	W	b	5	4	45	36	c.bv	bcp.b	bchp.b.p	2·1
	Roche's Point	988·5	42	W	3	bc	1004·3	*	39	−1	W	2	–	b	3	0·2	46	37	bc.c	c.bc	bc.b	*
	Birr Castle ...	986·1	39	WSW	1	c	1001·3	*	33	+1	SW	1	–	c	*	–	46	31	c	c	cx	5·8
	Donaghadee ...	983·9	39	SW	3	bcm	997·6	+6	35	0	WSW	4	–	bzr	3	–	45	33	bcm	bcm	bcm.bz	*
	Liverpool (Bidston)	987·2	39	SSE	2	c	999·8	+7	37	−4	SW	2	–	b	1	1	42	35	or	o.bc	o.bcx	0·1
	Holyhead ...	985·2	43	SSW	4	cq	?1000·1	+5	41	−3	W	5	–	b	4	1	45	40	op.om	op.o.bc	cp.bc.b	1·4
	Pembroke (St. Ann's)	987·2	44	SSW	2	cp	1002·9	+9	44	+4	NW	3	W	b	3	8	44	39	cp	cp	bc	0·3
	Scilly (St. Mary's)	988·5	43	WNW	5	cq	1004·9	+6	44	0	WNW	5	W	cqv	6	2	46	40	cqp	cqp	cqpl.c	4·3
	Falmouth ...	989·7	42	NNW	4	cp	1004·8	+9	40	+3	W	1	–	b	*	5	47	36	b.ph.o	ph.c	d.b.p.c	2·4
	Jersey (St. Aubin)	988·3	47	SSW	3	c	1004·6	*	45	−2	WNW	3	NW	b	3	2	52	43	c.b	b.bc.c	c.bcp.b	6·0
	Portland Bill ...	987·8	48	SSW	5	c	1000·7	+7	44	−3	WNW	4	–	b	5	4	49	42	cp	c	cp.bc	*
	Dungeness ...	990·8	47	S	3	bc	1000·3	+5	42	−4	WSW	3	SW	bc	4	–	49	42	og.c	c.bc	bc	*
	Dover	992·3	48	SSW	4	b	1001·6	+6	41	−4	WSW	2	–	b	4	0·2	48	40	c	c.bc	bc.cp.b	0·2
	Wick	978·6	42	SSW	2	o	990·2	+5	41	−3	S	4	–	bc	3	–	44	36	ogm	ogm	om.bc	*
	Nairn	979·1	38	–	0	bc	991·0	*	37	−1	–	0	–	bc	1	–	45	33	bc	bc	bcx	5·4
	Aberdeen ...	981·0	41	SSW	3	om	994·6	+6	36	−6	SSW	3	–	b	2	–	44	36	om	o.c.om	o.bc.bc	0·1
	Leith	982·5	42	SW	1	c	995·7	+3	36	−5	SW	1	SW	bc	2	–	44	35	c.o.c	b	c.bc	*
	Tynemouth ...	983·9	40	SW	2	bcm	997·2	+5	37	−6	W	2	–	bcm	4	2	43	35	omq	omp	bcm	*
	Spurn Head ...	988·7	40	WSW	4	bc	998·1	+2	43	−2	–	0	–	cr	4	9	48	39	or.bcq	bcq	bc.or	2·3
	Yarmouth ...	990·7	45	SW	5	bc	999·2	+8	41	−3	SW	3	–	bc	2	1	48	39	bcqmp	bc	op.bc	1·0
	Clacton-on-Sea	990·5	45	SSW	3	bc	994·8	+7	43	−3	WSW	3	W	c	2	3	47	43	ogp.bc	bc	bc.cp	3·0
	Nottingham ...	988·5	38	W	1	b	999·6	*	38	−5	W	1	W	om	*	3	48	33	r.o.cp	o.c.b	b	1·2
	Benson (Oxon.) ...	989·4	42	S	4	o	1001·3	+9	39	−7	W	2	–	c	*	5	48	38	bc.bcp	r	r	*
	Sth. Farnborough	989·7	43	S	2	bc	1001·2	+8	38	−9	WSW	3	–	b	*	3	49	37	p.bcv	bc	b.op.bc	5·6
	London (Kew Obsy.)	990·5	44	SSW	2	bc	1001·6	+8	41	−6	WSW	3	–	o	*	3	49	40	rnq.c.bc	bcph.c.bc	bc.o.or.o	3·6
NORTHERN EUROPE.	Spitsbergen ...	1011·4	3	–	0	o	1014·0	+1	3	+3	ENE	4	*	o	*	*	3	−2				
	Vardö	1006·6	23	WNW	4	b	1013·3	+3	19	−11	–	0	–	b	2	*	30	19				
	Bodö	997·9	37	E	4	o	997·2	0	34	−2	E	6	–	b	2	–	37	30				
	Christiansund	990·6	48	SE	3	c	995·0	+5	45	0	SE	4	–	c	3	–	50	43				
	Skudesnaes ..	990·3	41	SSE	9	r	999·5	+5	41	−2	S	5	–	o	5	8	43	39				
	Færder (X'iania Fjord)	1002·1	37	SSE	4	o	1001·7	+1	37	0	SSE	5	–	r	3	5	37	37				
	The Scaw (Skagen)	1001·0	37	SSE	5	c	1005·0	0	37	0	S	5	–	o	5	–	39	37				
	Blaavands Huk	997·9	41	SSE	4	r	1003·5	0	39	+2	SSE	2	–	r	2	1	41	36				
	Haparanda ...	1004·4	27	SSE	2	o	1009·9	+3	30	+18	S	4	–	f	*	Trace	30	12				
	Hernösand ...	1005·6	32	S	4	b	1009·1	0	28	−4	WSW	2	–	f	*	1	41	28				
	Stockholm ...	1010·4	34	SW	2	o	1012·3	+1	32	0	S	2	W	bc	*	–	34	30				
	Wisby	1011·7	34	WNW	2	b	1013·0	+1	32	−2	SSE	2	–	f	*	–	37	28				
	Karlstad	1006·1	34	–	0	bc	1008·3	+1	30	−2	–	0	–	bc	*	–	36	27				
FRANCE, &c.	The Helder ...	994·9	45	S	4	o	1000·7	+3	43	−2	S	3	–	o	1	1	46	43				
	C. Gris Nez ...	992·4	45	S	4	o	1000·4	+6	45	0	WSW	5	*	c	4	7	46	43				
	La Hêve	991·5	46	SSW	3	o	1003·5	*	44	−1	WNW	3	*	b	2	–	52	39				
	Brest (St. Mathieu)	989·9	47	SSW	5	bc	1007·3	+7	46	+2	NW	4	*	c	6	3	52	43				
	Rochefort (Ile d'Aix)	992·3	47	SW	5	c	1007·9	+9	45	−2	NNW	6	*	b	*	2	52	45				
	Biarritz	995·4	56	WNW	4	r	1007·5	+6	50	−3	N	5	*	o	6	8	56	46				
	Paris	994·4	45	SSE	3	r	1004·2	+7	39	−6	SSW	1	–	o	*	6	46	39				
	Belfort	1002·0	45	ENE	2	o	1006·9	*	36	+1	–	0	*	m	*	–	49	36				
	Lyons	999·8	47	S	1	r	1003·3	*	45	−1	–	0	*	r	*	1	51	44				
	Nice	1012·2	42	–	0	r	1008·4	+1	49	+4	E	5	*	o	7	46	48	41				
	Perpignan ..	997·6	50	S	2	r	1002·9	+5	46	−4	WNW	5	W	r	*	22	54	43				
	Sanguinaire ...	*	52	SE	4	o	*	*	50	0	SE	5	*	o	4	–	59	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1010·3	43	W	1	o	1013·3	+8	39	−6	NW	3	–	b	*	15	48	37				
	Lisbon (9 a.m.)																					
	Gibraltar	1009·5	50	NW	9	o	1018·3	*	49	−6	NW	5	*	b	3	30	60	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·9	+3	54	−1	WSW	3	–	b	2	9	57	52				
	Azores (Horta, 8 a.m.)	1024·8	*	WSW	4	bc							*									
	Madeira (Funchal)	1021·7	64	–	0	o	1025·2	+2	59	+4	N	4	–	bc	4	–	66	59				
YESTERDAY'S REPORTS		...3rd ..., 8 P.M. G.M.T.					4th February, 7 A.M. G.M.T.															
ITALY.	Venice	1025·3	36	–	0	f	1021·4	0	36	0	N	3	*	o	2	–	*	*				
	Turin	1024·6	39	–	0	b	1020·4	0	36	+4	–	0	*	r	*	–	*	*				
	Florence	1023·1	43	–	0	b	1020·3	0	37	0	–	0	*	b	*	–	*	*				
	Pesaro	1025·5	43	–	0	o	6021·5	0	36	−3	–	0	*	bc	2	–	*	*				
	Leghorn	1023·6	50	–	0	b	1020·3	0	43	−2	E	3	*	b	3	–	*	*				
	Rome	1014·3	46	–	0	b	1018·8	0	41	+4	SSE	3	*	o	*	–	*	*				
	Brindisi	1026·2	46	S	3	b	1024·4	0	48	+3	–	0	*	b	2	–	*	*				
	Cagliari	1020·4	52	ESE	3	b	1016·6	0	48	0	NE	4	*	b	2	–	*	*				
	Palermo	1020·6	46	N	3	b	1017·7	0	46	−2	–	0	*	f	1	–	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7..38 a.m.

2000 metres W by N 22 miles per hour
500 " WNW 22 " " "

GALES
Duration and Extreme Force in British Islands.

Scilly
4th Midr. Gust WNW 19 mps.

Portland Bill.
4th 8 a.m.–9 a.m. SW 8

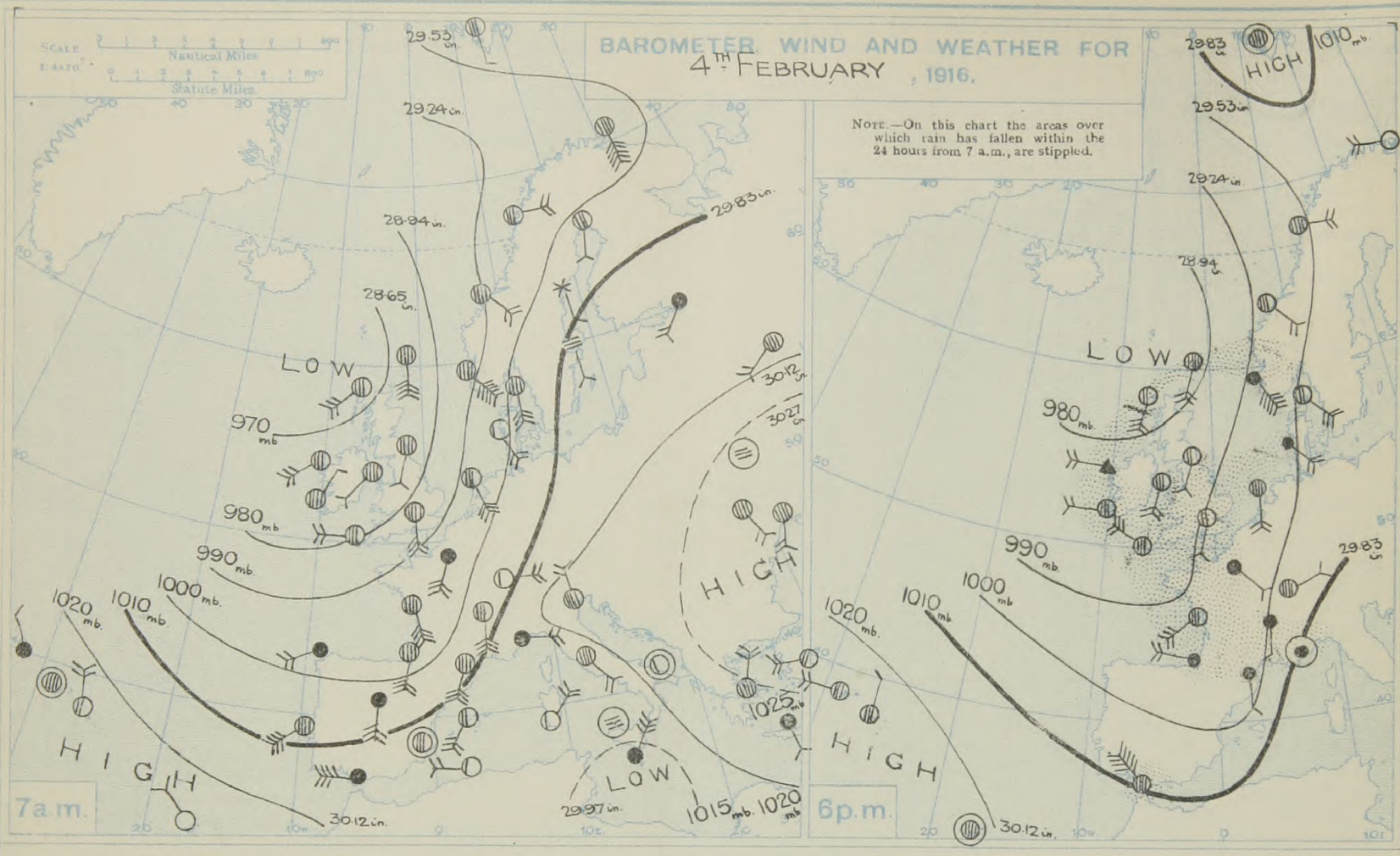
Dungeness
4th 7 a.m. – 11 a.m. SSE 8
Ex. SSE 9 @ 8 a.m.

Spurn Head
4th 1 p.m. – 3 p.m. SSW 8
Ex. SSW 9 @ 2 p.m.

Clacton-on-Sea
4th 7 a.m. – 10 a.m. SSE 8

London (Kew Obsy.)
4th 11.20 a.m. Gust SW 19 mps.

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, 0 b, 1, 2 a, 2 b, 3, 4 a, 4 b, 5, 6 a, 6 b, 7 a, 7 b, 8 a, 8 b, 9 a, 9 b, 10 a, 10 b	Wind between South and West and North-West, mostly light to moderate; generally fair to fine, some local showers; temperature moderate to mild.
Western Channel and Bay 11	Fresh Westerly to North-Westerly breeze; rather rough sea and swell; cloudy to fine; local mist; cool.

FURTHER OUTLOOK.

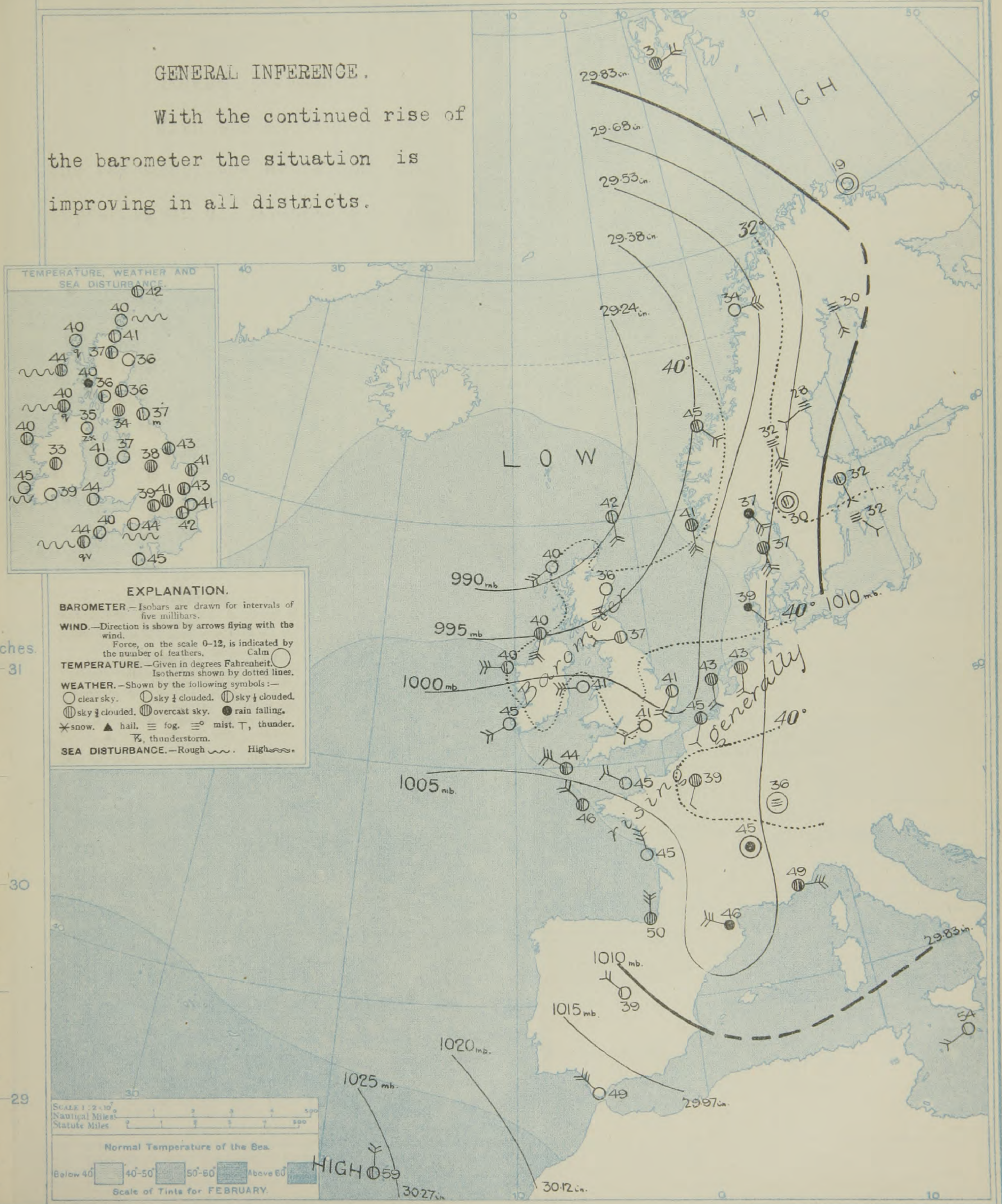
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 5TH FEBRUARY, 1916.

GENERAL INFERENCE.

With the continued rise of the barometer the situation is improving in all districts.



Issue No. 19798.

DAILY WEATHER REPORT.

SATURDAY, 5TH FEBRUARY, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	3rd. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	4th. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Helsingfors ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Hangö	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1011.5	30	W	3	0	1012.7	0	32	-2	SW	3	–	r	*	–	32	28
Moscow	1016.0	25	WSW	4	0	1019.9	+3	27	0	WSW	3	*	0	*	–	*	25
Kiev	1028.3	27	SW	1	f	1027.0	-1	23	.	–	0	*	f	*	–	*	?
Kharkov	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Kishinev	1030.1	34	S	3	b	1027.9	-3	30	+7	SSE	3	*	0	*	–	*	23
Elisabetgrad ...	1029.6	30	–	0	b	1028.4	-1	28	0	SSW	1	*	0	*	–	*	27
Nicolaiev	1032.3	32	SSW	2	b	1029.5	*	34	+2	–	0	*	0	0	–	*	30
Odessa	1031.5	36	SW	3	b	1028.8	-2	37	+5	SW	3	*	0	0	–	*	34

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	29	48	36	p	bc.o	1.4
	Banff	-	43	38	c bc	bc	0.1
	St. Andrews	-	42	38	*	*	0.0
Eng. N.E.	Harrogate	12	39	33	r.or	rs.o.c	0.0
	Skegness	-	49	29	og.c	bc.o	3.3
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	1	42	39	odr	or.bcc	0.0
Midlands.	Buxton	18	42	32	cr	s. cr.b	0.0
	Leamington Spa	14	47	38	o.bcp	o.bc.c	3.6
	Malvern	18	43	35	rs	bc	2.0
	Ross-on-Wye	29	47	37	or.c	cp.bc	1.8
Wales.	Rhyl	1	45	39			0.3
	Colwyn Bay	7	43	40	bc	bc	0.2
	Llandudno	18	48	39	c	c.b	0.8
	Aberystwyth	5	42	39	r.o c	c.o	0.7
	Tenby	18	46	38	r	bc.op	1.3

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	3	48	42	op.c	c	1.3
	Felixstowe	4	48	43	Og g	bc	2.8
	Walton-on-Naze	2	47	42	bcq z-p	b-bc	2.9
	Southend-on-Sea	3	49	44	op.c bc	bc.b	4.0
England, S.E.	Margate	5	50	43	o	o.bc	0.8
	Ramsgate	7	48	42	r.c	bc	0.0
	Hastings	4	50	45	or	bc	2.6
	Eastbourne	2	52	46	or g.b	bbc.o	3.0
	Seaford	5	49	44	or	o.c	2.7
	Brighton	6	49	45	o c bc	bc.b	4.8
	Worthing	9	51	45	bc	bc	5.4
	Littlehampton	6	48	44	bc	bc	4.4
	Bognor						.
	Southsea	10	51	46	b	b	7.0
	Bournemouth	15	50	44	b	b	6.4
England, S.W.	Weymouth...	1	50	44	bcp.bc	h.bc	4.4
	Torquay	18	50	39	bc	bc.c.o	4.7
	Paignton	24	51	39	bc	or	4.9
	Penzance	19	49	39	bphr	cpr	2.1
	Newquay	*	47	38	ph	oph	0.8
	Ilfracombe						
	Weston-super-Mare ...	15	48	39	r.bc	b.bc	1.7

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-day.)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	77	87	4.4	50	40	32	3	or	or.bc	or.bc
City (Bunhill Row)	*	*	3.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	92	3.4	51	40	36	3	r.bc.rh	bc	r.bcm
Camden Sq. (Brit. Rainfall)	68	92	3.3	51	40	35	3	or.bc	b	*
Hampstead (Reservoir) ...	*	92	3.6	48	37	28	3	bc.ph	or x	bc
Richmond Park ...	*	*	4.2							
Kew. (See front page.)	*	*	3.6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	69	89	3.6							

Vertical Component of Solar Radiation per square centimetre during yesterday.

Total.	Average Rate.	Max. Rate.
448 Joules	13.4 Milliwatts.	39 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	4	44	34	35	our	or.rs	rs	0.0
Manchester ,,				*				
Birmingham ,,						*		
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	9	51	45	37	orq	cq	bcq	*

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

5TH & 6TH FEBRUARY, 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7 . 31 7 . 39	12 . 7 12 . 7	4 . 43 4 . 45
Greenwich	7 . 34 7 . 33	12 . 14 12 . 14	4 . 54 4 . 55
Wick	8 . 12 8 . 10	12 . 26 12 . 26	4 . 40 4 . 42
Valencia	8 . 17 8 . 15	12 . 55 12 . 55	5 . 33 5 . 35

NOTES ON YESTERDAY'S WEATHER.

Temperature reached 50° to 52° at several southern stations. Small amounts of rain fell, hail sleet or snow locally. Sunshine was variable, seven hours at Southsea. A gale occurred in the south and east.

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

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 37 { Sunday 6th February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	996.2	48	SSW	4	bc	984.4	0	43	+1	SSW	7	–	cq	5	6	45	38	bc	bc	ocq.c	*
	Deerness (Orkney)	994.2	42	S	6	oq	986.4	*	39	-1	SSW	6	SW	b	5	1	44	39	b.bc	bc.c.o	o.c.bcb	4.7
	Stornoway ...	987.9	43	S	7	ocq	985.5	+2	39	-1	SW	7	-	bcprhq	6	15	45	35	bpq	bp.ocq	obcprhq	3.5
	Castlebay (Barra Isd.)	990.9	45	S	6	r	989.3	+1	43	-1	SW	7	SW	b	7	3	45	40	c.o.bcp	cp oc	r.o.bc.b	3.5
	Glasgow ...	1002.0	40	SSW	3	oq	996.3	+3	43	+7	SW	3	-	o	*	6	49	36	bo.cbc	bc. c.o	oc.oqp	4.0
	Eskdalemuir ...	1005.2	38	SSW	4	bc	998.4	+2	44	+10	SW	5	-	oc	*	25	48	?34	o.c	c.o c.bc	bcc.oc	? 4.2
	Malin Head ...	993.2	42	S	6	cq	993.9	+2	43	+3	WSW	6	SW	cqpl	7	8	45	35	bcq	cq	cqp	4.2
	Blacksod Point	993.3	50	SSW	7	omr	996.5	0	44	+4	WSW	8	W	bcphl	6	5	50	38	cm	omr	om.bcp	*
	Valencia ...	1008.2	52	S	5	od	1004.5	0	46	+1	SW	5	-	op	*	10	52	39	bc.c.od	oc.d	rot.op	0.1
	Roche's Point	1007.7	48	SW	5	rf	1006.8	*	47	+8	W	3	-	r	5	6	50	38	bbc.o	ocf	rf.rm	*
	Birr Castle ...	1002.4	47	S	4	o	1002.1	*	44	+11	WSW	3	-	r	*	7	51	33	c	o	oc	4.0
	Donaghadee ...	1002.7	44	SSW	4	cgmp	999.0	+4	46	+11	SW	4	-	ogm	3	2	51	34	bm	cgm	ompgh	*
	Liverpool (Bidston)	1009.7	41	SSW	3	b	1003.0	-2	51	+14	SW	4	S	o	3	-	53	37	b	b	bc.o	6.7
	Holyhead ...	1007.7	47	SW	6	ogq	1003.3	0	45	+4	WNW	5	-	ocm	5	9	50	41	b	bbc.cd	o.ocm	7.3
	Pembroke (St. Ann's)	1011.3	47	SW	5	bcq	1006.9	-2	49	+5	SW	6	-	m	6	1	49	43	bcq	bcq	ogfdm	6.8
	Scilly (St. Mary's)	1013.9	48	SW	5	op	1011.5	-2	50	+6	SW	6	-	omd	6	1	50	?44	bc.b	b.bc.o	cgmd	5.5
	Falmouth ...	1015.7	45	SW	4	bc	1012.6	-2	50	+10	SSW	7	-	oq	*	6	50	40	b.rbcp	bc.bbc	bcrq	7.0
	Jersey (St. Aubin)	1017.2	47	W	3	b	1019.0	*	49	+4	SW	4	-	o	4	Trace	50	44	b.bc.b	b	b.op.o	7.5
	Portland Bill ...	1015.5	48	WSW	4	b	1014.8	-2	50	+6	SW	6	SW	o	5	0.4	50	40	bc	bc	bc.or	*
	Dungeness ...	?	45	WSW	3	b	1016.6	0	47	+5	SW	6	-	ou	5	-	49	42	bc	bc	bc.c.o	*
	Dover ...	?	43	SW	3	b	1015.8	-1	46	+5	SSW	6	SW	o	6	-	49	41	b.bcc.b	b	boc	7.6
	Wick ...	995.7	43	SSW	5	c	987.9	+2	39	-2	W	4	W	bc	4	0.4	45	38	bc	bc	om.bcp	*
	Nairn ...	996.5	42	SSW	3	cq	990.3	*	38	+1	SW	3	-	bc	3	2	44	36	b.bc	bcq	qc.pq	5.0
	Aberdeen ...	1000.2	41	S	4	b	992.4	+1	45	+9	SW	4	-	c	3	0.2	49	36	b	b	b.opqc	5.7
	Leith ...	1002.2	42	SW	1	bc	995.9	+1	44	+8	SW	2	-	r	3	6	51	36	b	b	bc.oqr	*
	Tynemouth ...	1006.1	42	NW	2	bm	999.2	0	50	+13	WSW	4	W	cq	4	1	50	?37	bm	bm	cqp	*
	Spurn Head ...	1010.7	45	W	3	bc	1005.7	-2	46	+3	SW	7	-	cq	6	Trace	48	36	f.cm	bcm	bm	3.2
	Yarmouth ...	1013.1	41	WSW	2	bc	1012.3	-4	45	+4	SW	6	-	cq	4	2	45	36	bcomr	bcm	bcm	2.0
	Clacton-on-Sea	1014.3	42	WSW	2	bc	1013.7	-1	45	+2	SSW	4	SW	c	3	-	48	41	c.bc.c	c.bc	b.bc.c	4.0
	Nottingham ...	1012.0	39	W	2	b	1007.1	*	50	+12	SW	5	SW	o	*	-	50	36	o.c.b	b	b	5.9
	Benson (Oxon.) ...	1014.5	40	SW	3	b	1012.0	*	49	+10	SSW	5	-	oe	*	0.1	49	37	b	b	b.o	?
	Sth Farnborough	1015.2	39	SW	2	b	1013.0	-2	49	+11	SW	6	-	od	*	0.3	49	36	b	b.bc.b	mb.od	8.4
	London (Kew Obsy.)	1015.2	43	SW	3	b	1013.4	-4	47	-6	SW	5	-	o	*	0.2	47	39	o.c.bc.b	b.bm	bmb.ovo	7.6
NORTHERN EUROPE.	Spitsbergen ...	1013.0	1	SE	2	o	1007.1	-3	-2	-5	ESE	1	*	o	*	*	3	-8				
	Vardö ...	1008.7	25	SSE	3	s	1001.0	-5	28	+9	E	1	-	o	3	*	25	18				
	Bodö ...	1001.0	36	E	4	bc	994.9	-5	36	+2	E	3	-	b	2	-	36	30				
	Christiansund	999.4	39	SSW	1	c	988.6	-6	45	0	SE	2	-	c	3	-	46	37				
	Skudesnaes ..	1001.6	41	-	0	o	996.6	-5	41	0	SSE	10	-	r	7	9	43	39				
	Færder (X'iania Fjord)	1012.0	37	S	6	r	1005.5	0	39	+2	WSW	6	-	o	3	8	39	37				
	The Scaw (Skagen)	1008.2	37	S	5	r	1008.7	0	37	0	SW	5	-	c	5	-	41	36				
	Blaavands Huk	1008.7	41	SW	2	c	1011.0	-3	39	0	SSW	3	-	c	3	Trace	41	37				
	Haparanda ...	1009.5	30	S	4	f	1001.9	-4	28	-2	S	6	-	s	*	2	30	23				
	Hernösand ...	1010.4	30	-	0	f	1002.7	-3	30	+2	S	6	-	o	*	Trace	41	27				
	Stockholm ...	1013.7	34	S	2	o	1010.0	0	32	0	SSW	2	-	o	*	-	34	30				
	Wisby ...	1014.3	34	SW	2	o	1012.7	0	34	+2	WSW	2	-	o	*	-	37	30				
	Karlstad ...	1010.4	34	-	0	o	1007.3	-3	36	+6	SW	2	-	f	*	Trace	36	27				
FRANCE, &c.	The Helder ...	1012.7	43	WSW	2	bc	1015.1	-3	43	0	S	6	W	c	3	-	46	41				
	C. Gris Nez ...	1015.8	45	WSW	5	b	1017.6	-2	43	-2	S	6	*	o	5	Trace	46	45				
	La Hêve ...	1016.8	45	W	3	bc	1019.0	*	43	-1	S	5	*	o	5	-	48	39				
	Brest (St. Mathieu)	1020.0	48	W	3	o	1019.0	-1	50	+4	SW	6	*	f	5	-	50	46				
	Rochefort (Ile d'Aix)	1021.3	48	NW	3	b	1027.0	0	45	0	S	9	*	m	*	Trace	52	41				
	Biarritz ...	1021.7	50	N	4	c	1028.3	+2	45	-5	SE	2	*	o	6	3	54	43				
	Paris ...	1019.0	41	W	1	b	1025.0	+1	34	-5	S	2	NW	o	*	-	50	30				
	Belfort ...	1017.9	43	W	2	m	1027.3	*	45	+9	W	2	*	f	*	-	48	?36				
	Lyons ...	1019.3	44	NW	3	o	1027.3	*	40	-5	NW	1	*	b	*	3	46	39				
	Nice ...												*									
	Perpignan ..	1016.3	45	NW	5	r	1023.7	+5	45	-1	NW	5	–	b	*	3	50	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026.2	52	N	4	b	1029.3	+1	50	0	SSW	3	-	o	5	1	54	45				
	Madrid (8 a.m.)	1019.8	45	NNW	4	b	1031.8	+6	37	-2	SW	1	-	b	*	-	46	32				
	Lisbon (9 a.m.)	1026.6	52	NNW	3	b	1031.0	0	48	0	NNW	2	-	c	6	1	55	48				
	Gibraltar ...							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1016.0	+1	55	+1	–	0	–	o	1	-	59	52				
	Azores (Horta, 8 a.m.)	1026.0	*	SSW	5	o	1027.0	+1	60	+2	SSW	5	*	r	3	3	63	59				
	Madeira (Funchal)	1028.0	63	ENE	2	o	1032.0	0	54	-5	E	2	–	o	2	-	66	54				
YESTERDAY'S REPORTS		....4th...., 8 P.M. G.M.T.					Feb. 5th. ....., 7 A.M. G.M.T.															
ITALY.	Venice ...	1016.1	41	SE	3	b	1014.0	0	41	+5	–	0	*	o	2	–	*	*				
	Turin ...	1015.4	34	-	0	r	1015.6	0	36	0	–	0	*	o	*	14	*	*				
	Florence ...	1013.9	45	-	0	o	1012.2	0	39	+2	-	0	*	b	*	-	*	*				
	Pesaro ...	1015.6	39	-	0	b	1013.5	0	34	-2	-	0	*	b	2	-	*	*				
	Leghorn ...	1014.4	50	E	4	bc	1012.3	0	46	+3	E	3	*	b	3	-	*	*				
	Rome ...	1014.9	46	-	0	b	1012.7	0	36	-5	N	3	*	b	*	-	*	*				
	Brindisi ...	1017.2	54	-	0	o	1013.3	0	46	0	-	0	*	bo	1	-	*	*				
	Cagliari ...	-	-	-	.	.	.	.	.	.	.	.	*	.	.	.	*	*				
	Palermo ...	?	50	-	0	?	1012.2	0	46	0	-	0	*	b	2	Trace	*	*				

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

GALES.
Duration and Extreme Force in British Islands.

Stornoway: 5th Feb.
S.q. 8 pm to 11 p.m.

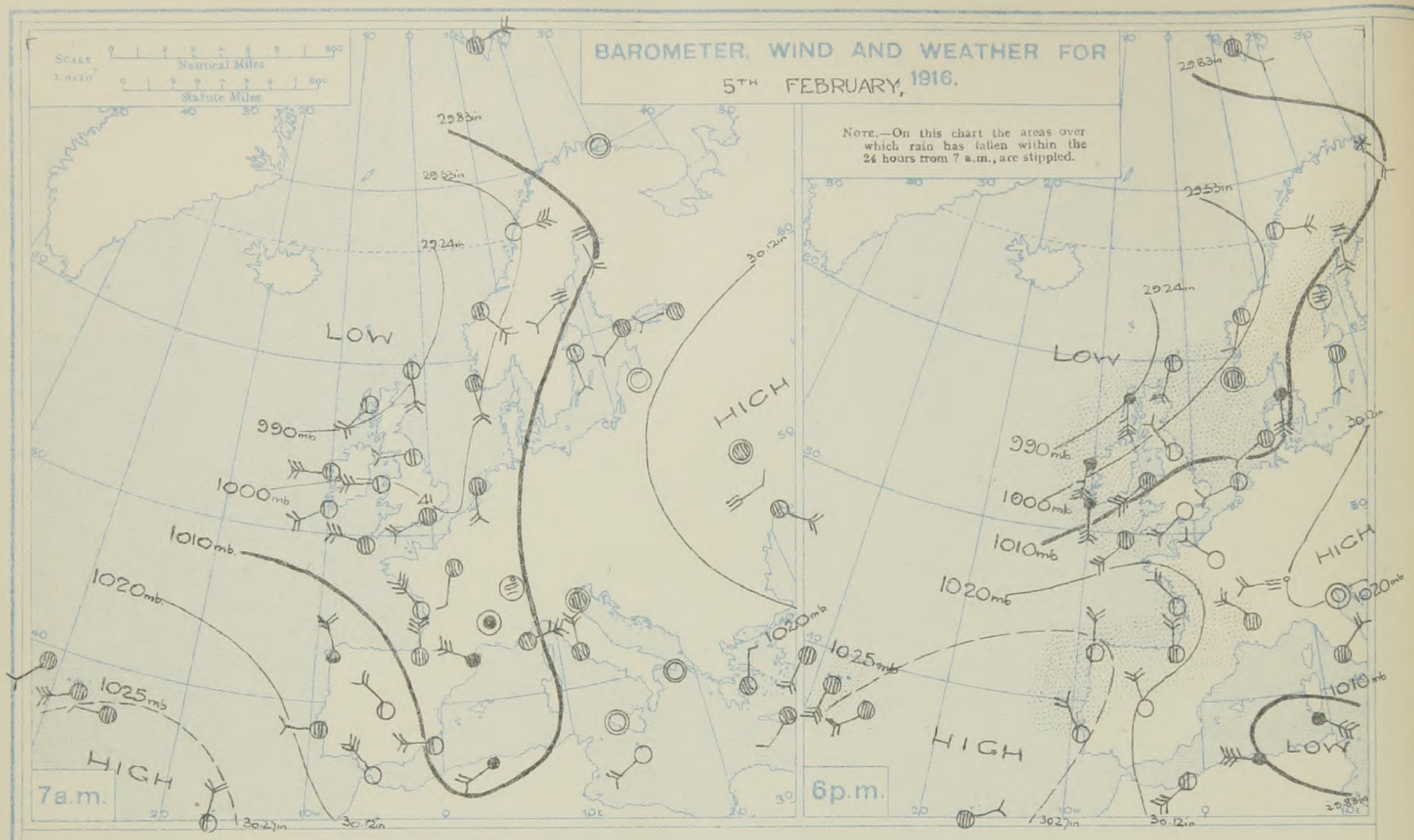
Eskdalemuir: 5th Feb.
S.S.W.8. 9 pm to 11 pm.

Malin Head: 5th & 6th Feb.
S.8. 5 pm to 3 a.m.

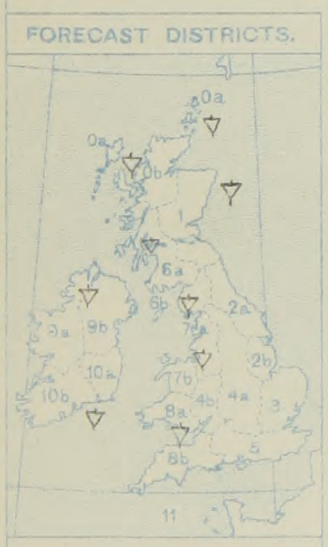
Blacksod Point: 6th
W.8 at 1 a.m.
WS.W.8 at 7 a.m.

Aberdeen: 5th Feb.
Gust. S. 22 mps at 11 pm

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.



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.

South Cone hoisted yesterday at 7.10 pm in Districts 0, 1, 6, 7 & 9 & 10

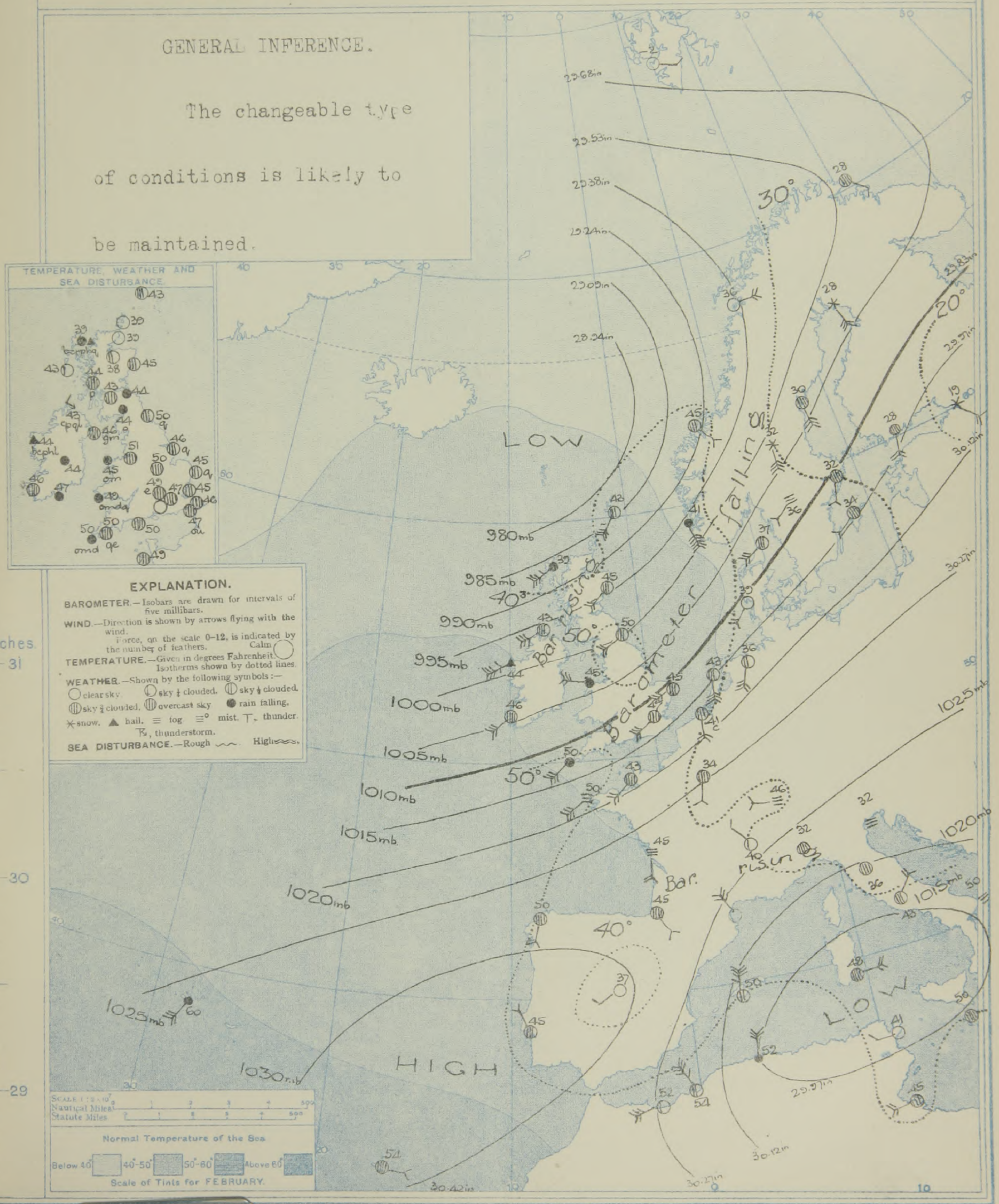
0 a, b; 1; 2 a, b	Squally, strong to high South-Westerly to Westerly wind, moderating later; dull to fair, some rain and hail; mild to moderate temperature.
3; 4 a, b; 5	Squally strong to high wind between South and West, moderate later; dull, damp, some rain and mist; mild.
6 a, b; 7 a, b	Same as Nos. 0 to 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b	Same as Nos. 0 to 2.
10 a, b	Same as Nos. 3 to 5.
Western Channel and Bay 11	Squally strong to high South-Westerly wind; rough to high sea; dull, some rain, mist or fog; mild

Millib. / Inches: 1050, 31, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 6TH FEBRUARY, 1916.



Issue No. 19799

DAILY WEATHER REPORT.

Sunday, 6th February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	4th at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	5th at 7 A.M. local time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1005·8	32	WSW	3	0	1010·3	+3	32	.	SSW	2	*	0	*	?	*	*
Helsingfors ...	1015·4	30	SW	3	0	1016·7	+1	30	.	SW	2	*	0	0	–	*	*
Hangö	1015·3	32	WSW	2	0	1016·0	+1	30	.	–	0	*	b	0	–	*	*
Riga	1017·6	34	–	0	bc	1017·8	0	27	.	–	0	*	b	0	–	*	*
Petrograd	1015·8	32	SW	3	b	1018·4	+1	27	–5	W	2	–	0	*	–	34	26
Moscow	1021·7	32	WSW	3	0	1022·3	0	23	–4	WNW	3	*	b	*	–	*	21
Kiev	1023·7	32	–	0	f	1022·1	0	32	+9	–	0	*	0	*	–	*	21
Kharkov	1028·4	23	–	0	f	1028·4	0	25	.	–	0	*	f	*	–	*	*
Kishinev	1021·7	32	S	2	b	1020·8	–1	32	+2	E	1	*	f	*	–	*	28
Elisabetgrad ...	1025·1	34	SE	2	0	1023·3	–2	34	+6	SE	2	*	f	*	–	*	32
Nicolaiev	1025·5	36	S	2	0	1023·1	*	36	+2	SE	4	*	c	0	–	*	32
Odessa	1024·0	39	S	2	0	1021·9	–2	39	+2	SSE	3	*	0	0	–	*	39

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

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	.	.	.	.	.	.
	Banff	–	48	34	bc	b.bc	5·5
	St. Andrews	.	.	.	*	*	
Eng. N.E.	Harrogate	–	46	30	b	b	6·7
	Skegness	4	47	37	or o.bc	bc.b	3·7
Eng. N.W.	Morecambe	.	.	.	.	.	
	Blackpool	.	.	.	.	.	
	Southport	–	47	32	b	b	6·6
Midlands.	Buxton	1	43	33	bc	b	5·4
	Leamington Spa	1	47	36	b	b	7·6
	Malvern	.	.	.	.		
	Ross-on-Wye	2	49	35	b	b	8·2
Wales.	Rhyl	–	48	33	b	b.bc	7·3
	Colwyn Bay	.	.	.	.		
	Llandudno	–	48	37	b*	b	8·0
	Aberystwyth	5	46	38	r.o.c	c.bc	7·5
	Tenby	1	48	33	b	bc	7·9

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	.	.	.	.	.	.
	Felixstowe	2	47	40	o.bc	bc	4·4
	Walton-on-Naze	2	47	41	bcz.bc	b.bc.b	4·8
	Southend-on-Sea	1	50	41	bc.bz	bz	6·0
England, S.E.	Margate	1	47	40	b.c.b	b.bc.b	3·0
	Ramsgate	1	45	37	c.bc	bcz	5·6
	Hastings	2	49	38	or.b	b	7·7
	Eastbourne	1	48	39	b	b	8·0
	Seaford	1	48	40	b	b	8·2
	Brighton	.	.	.	.	.	.
	Worthing	2	51	36	b	b	7·9
	Littlehampton	2	48	36	b	b	8·0
	Bognor	2	49	37	b	b	7·8
	Southsea	.	.	.	.	.	.
	Bournemouth	–	50	34	b	b	7·9
England, S.W.	Weymouth	5	51	38	b	b.bc.b	8·2
	Torquay	1	50	35	bc.b	b.bc	7·3
	Paignton	1	51	34	bcp.bc	bc	7·2
	Penzance	1	51	38	bc	c.bc	5·9
	Newquay	*	49	43	b	b	6·5
	Ilfracombe	.	.	.	.	.	.
	Weston-super-Mare ...	.	.	.	.	.	.

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday.	Humidity 9 a.m. To-day.	Sunshine for Yesterday.	Temperature (24 hours ended 9 A.M. To-Day) In Screen Max.	In Screen Min.	Min. on Grass.	Rainfall.	Weather Forenoon.	Weather Afternoon.	Weather Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	63	92	6·0	49	40	31	–	bz	bz.o	o
City (Bunhill Row)	*	*	4·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	93	5·7	51	41	36	–	bc.o	bc	bc.oe
Camden Sq. (Brit. Rainfall)	67	95	5·9	50	40	34	TRACE	b	b	*
Hampstead (Reservoir) ...	*	88	7·0	50	37	28	–	bx	bc.o	oe
Richmond Park ...	*	*	7·5							
Kew. (See front page.)	*	*	7·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	63	6·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
520 Joules	15.5 Milliwatts.	29 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature In Screen Max.	Temperature In Screen Min.	Temperature Night Min. on Grass.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	–	47	35	31	bx	bc	c	*
Darwen to 9 p.m.	0·2	.	.	.	o c hp	c.μ.b	bc	3·8
Manchester ,,	.	.	.	*	.	.	.	
Birmingham ,,	–	46	35	28	*	c.b	c.b	7·6
Oxford to 8 p.m.	*	49	36	29	c.bc	b	b	*
Teignmouth to 9 ,,	1	52	37	29	bcp.bc	bc cp	bc	6·5
Plymouth ,,	1	60	38	*	bz.opq	bz	o.bc	7·5
S. Kensington (Museum Grounds to 6 p.m.)	2	49	41	37	bcz	bc	bcz	*

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

Feb. 6th & 7th 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7 . 29 7 . 27	12 . 7 12 . 7	4 . 45 4 . 47
Greenwich	7 . 33 7 . 31	12 . 14 12 . 14	4 . 55 4 . 57
Wick	8 . 10 8 . 8	12 . 26 12 . 26	4 . 42 4 . 44
Valencia	8 . 15 8 . 13	12 . 35 12 . 35	5 . 35 5 . 37

NOTES ON YESTERDAY'S WEATHER.

Temperature was again above the normal, the day being unusually fine and bright, with large records of bright sunshine, eight hours to 8½ hours in places. A strong Southerly gale was felt in the south-west at night.

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

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

Printed at the Meteorological Office, South Kensington, London, S.W. By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 38

MONDAY, 7TH FEBRUARY.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	982.3	40	SSW	5	bcq	985.0	+2	37	-6	W	3	-	ar	3	3	44	36	cqp	bcqp	omp	*
	Deerness (Orkney)	983.4	38	SW	6	cp	986.4	*	35	-4	SW	6	S	bc	S	3	44	35	b.bcpq	bc.cp	c.or.c.bc	2.9
	Stornoway ...	982.3	41	WSW	7	orq	987.7	+2	36	-3	W	7	-	cphq	6	14	42	34	bcprhq	bcph orq	cprhqre	0.8
	Castlebay (Barra Isd.)	989.2	42	W	8	opq	993.1	+1	42	-1	W	8	-	ohp	7	2	45	35	bhp.bc	bcph.o	op.chp	1.8
	Glasgow ...	996.9	39	SW	4	c	997.8	+1	35	-8	WSW	4	-	o	*	-	44	31	o.ctlh	cth.bc	clqsp	1.9
	Eskdalemuir ...	1001.1	34	SW	5	bc	1000.8	0	34	-10	SW	6	-	o	*	6	44	32	orq.o	o.cqsp	c.bc	0.7
	Malin Head ...	994.3	40	WSW	8	cqph	998.1	+3	38	-5	WSW	9	-	oq	9	1	43	36	cqph	bcqph	oqphl	2.2
	Blacksod Point	1001.3	42	WSW	8	omqh	1004.1	+3	40	-4	WSW	8	W	cmq	6	3	48	36	omqph	omqph	cqphl	*
	Valencia ...	1011.2	41	SW	7	pqh	1014.0	+4	41	-5	W	7	-	bp	*	8	48	39	o.cp.c	c.cpqh	bp	4.3
	Roche's Point	1012.6	42	WSW	4	bc	1014.0	*	40	-7	W	3	-	b	4	3	49	39	cpq	cpq	b	*
	Birr Castle ...	1007.3	41	W	3	c	1009.4	*	36	-8	W	2	-	c	*	6	46	34	cphs	cphs	cp	3.2
	Donaghadee ...	1001.7	37	WSW	5	bcqpm	1001.5	+1	35	-11	W	5	-	bcmq	4	2	46	34	bcmqp	bcqp	bqpl	*
	Liverpool (Bidston)	1007.0	42	SW	5	b	1006.6	-1	37	-14	WSW	6	W	oqr	5	12	51	36	or	c.o.b	pqr	0.3
	Holyhead ...	1007.8	42	WSW	6	cpq	1007.5	+2	41	-4	W	7	W	cq	7	7	48	38	or.op	cp.o.bc	c.bp.bc	1.8
	Pembroke (St. Ann's)	1012.8	47	W	6	bq	1012.1	+2	43	-6	NW	5	NW	bqp	6	6	49	40	cqmp	bcq bq	bqp	2.5
	Scilly (St. Mary's)	1016.5	47	W	7	bcq	1016.9	0	47	-3	WNW	7	W	cqp	6	3	51	44	omqp	om.cqp	bcqp	2.4
	Falmouth ...	1016.6	46	W	4	bz	1017.1	+2	44	-6	W	4	-	bcpq	*	5	52	42	rq.cq	cp.bc.b	b.bcpq	1.5
	Jersey (St. Aubin)	1017.8	52	WSW	4	o	1019.5	*	47	-2	WSW	5	-	o	4	4	55	45	odpc	c.o	b.oqph	0.1
	Portland Bill ...	1014.3	49	W	4	cp	1014.5	-2	44	-6	WSW	5	SW	bcqp	5	1	50	44	od	cp	b.bcp	*
	Dungeness ...	1013.0	49	SW	6	o	1015.1	-1	46	-1	SW	4	SW	bc	4	3	50	45	o c.oq'	opd	d.bc.b	*
	Dover	1013.4	49	SW	5	oez	1016.4	-2	44	-2	SW	4	SW	b	4	2	49	41	omdes	odp.o	oaz.b	0.0
	Wick	985.2	38	SW	4	bc	988.4	-1	34	-5	SW	3	-	bc	3	2	42	34	qrshp	bcqp	bcqhp	*
	Nairn	988.7	36	W	5	r	989.1	*	33	-5	W	2	-	ou	2	13	43	32	prs.bc	rsq.c	q.ous	2.8
	Aberdeen ...	991.9	38	SW	5	b	991.9	-1	35	-10	SW	5	-	bc	2	1	46	35	cp.b	bc.bq	bcqsp	3.6
	Leith	996.8	39	SW	3	c	996.4	0	36	-8	SW	4	-	s	4	5	46	33	rqth	cqhr	crqts	*
	Tynemouth ...	1001.5	42	W	2	bm	1001.2	-1	38	-12	WSW	4	-	bcmq	3	3	50	34	omr	bcm	bmqp	*
	Spurn Head ...	1006.6	43	WNW	5	cqp	1005.8	-1	38	-8	SW	5	-	op	5	3	46	36	eq.or	cqp	bcq.aq	0.9
	Yarmouth ...	1009.4	50	SW	4	bc	1011.0	-1	39	-6	SW	4	-	b	3	2	52	39	cq	cqp	bcqp	0.0
	Clacton-on-Sea	1011.4	49	SW	4	o	1013.2	-1	42	-3	WSW	3	W	bc	3	0.3	49	41	c.o	op	o.c.bc	0.0
	Nottingham ...	1008.6	44	SW	4	b	1007.9	*	? 40	?-10	SW	4	SW	c	*	3	53	38	omr.cr	p.b	b	0.9
	Benson (Oxon.) ...	1012.5	46	WSW	4	bc	1012.6	*	42	-7	SW	5	-	o	*	1	52	39	o	bc	bc	?
	Sth Farnborough	1012.8	48	WSW	3	o	1013.2	-3	43	-6	SW	5	-	or	*	2	51	38	r	r.o.c.o	o.b.bc	0.3
	London (Kew Obsy.)	1012.5	50	WSW	4	c	1013.2	-3	43	-4	SSW	4	W	c	*	2	50	41	qodq.oq	oq.qr.chor.	c.bc	0.0
NORTHERN EUROPE.	Spitsbergen ...	1004.2	1	-	0	b	1003.0	0	-15	-13	-	0	*	b	*	*	1	-19				
	Vardö	999.7	28	S	3	o	988.6	-2	30	+2	SSE	1	-	o	2	*	30	18				
	Bodö	985.2	37	E	2	o	980.8	-3	36	0	ESE	1	-	bc	2	-	37	32				
	Christiansund	985.0	41	SW	1	b	981.1	0	41	-4	NW	3	-	c	3	-	45	39				
	Skudesnaes ..	991.8	41	SW	5	c	990.4	0	41	0	NW	7	-	o	5	8	43	37				
	Færder (Xiania Fjord)	994.0	39	SSW	6	r	991.9	-3	39	0	SW	8	-	m	4	6	39	39				
	The Scaw (Skagen)	998.3	41	SSW	5	r	998.6	-2	37	0	WSW	6	-	c	6	10	43	37				
	Blaavands Huk	1003.4	43	SSW	6	r	1005.2	0	39	0	WSW	4	-	c	5	2	41	37				
	Haparanda ...	995.1	30	S	6	o	981.2	-6	32	+4	S	6	-	s	*	6	34	27				
	Hernösand ...	994.9	34	S	6	o	985.7	0	34	+4	S	2	-	b	*	TRACE	36	30				
	Stockholm ...	1004.0	37	SSW	2	o	997.1	+1	37	+5	SW	4	-	o	*	TRACE	37	30				
	Wisby	1010.6	34	SW	6	o	1002.1	0	37	+3	WSW	4	-	b	*	3	39	32				
	Karlstad	998.9	36	SW	4	o	995.1	0	36	0	SW	4	-	o	*	3	37	34				
FRANCE, &c	The Helder ...	1009.3	45	SSW	7	r	1011.4	-1	45	+2	SW	4	-	bc	3	2	46	43				
	C. Gris Nez ...	1013.7	49	SSW	6	r	1015.5	0	46	+3	WSW	6	*	bc	5	3	48	46				
	La Hève	1018.4	46	SW	6	r	1017.7	*	45	+2	WSW	5	*	c	5	6	49	41				
	Brest (St. Mathieu)	1020.6	51	W	4	bc	1021.9	-1	50	0	W	5	*	b	5	1	54	46				
	Rochefort (Ile d'Aix)	1025.7	50	SW	6	f	1025.6	+1	50	+5	W	3	*	o	*	5	52	48				
	Biarritz	1028.8	52	SSW	2	o	1027.5	0	54	+9	SSW	2	*	o	5	1	55	48				
	Paris	1021.7	48	SSW	4	o	1021.1	+1	45	+11	SW	2	-	b	*	1	50	34				
	Belfort	1026.9	41	W	3	b	1024.7	*	39	-7	W	2	*	r	*	3	49	36				
	Lyons	1028.3	33	N	1	b	1027.4	*	39	-1	ESE	1	*	o	*	-	50	37				
	Nice	1021.2	46	-	0	b	1023.3	0	44		-	0	*	b	3	-	59	41				
	Perpignan ..	1026.1	48	NW	3	b	1026.4	0	48	+3	NNW	1	NW	bc	*	-	55	46				
	Sanguinaire ...	*	58	N	3	bc	*	*	50	.	E	3	*	bc	4	-	59	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1029.6	57	SW	3	o	1031.7	+3	52	+2	WSW	1	-	o	6	10	59	50				
	Madrid (8 a.m.)	1028.8	50	SW	2	b	1033.6	+1	37	0	—	0	-	b	*	-	50	34				
	Lisbon (9 a.m.)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
	Gibraltar	1030.5	50	NW	2	b	1029.8	*	43	.	N	2	*	b	1	-	61	42				
	Malta (8 a.m.) ...	*	*	*	*	*	1015.5	+1	48	-7	W	2	-	r	1	32	59	48				
	Azores (Horta, 8 a.m.)	-	*	-	-	-	.	-	.	-	.	.	*	.	.	.	.	.				
	Madeira (Funchal)	1030.3	61	E	2	bc	1031.8	0	54	0	ENE	3	—	bc	3	-	63	54				
YESTERDAY'S REPORTS		...5TH..., 8 P.M. G.M.T.					....FEB. 6TH...., 7 A.M. G.M.T.															
ITALY.	Venice	1017.6	46	-	0	b	1021.6	0	32	-9	-	0	*	f	2	-	*	*				
	Turin	1020.6	37	-	0	b	?	0	32	-4	-	0	*	b	*	1	*	*				
	Florence	1016.1	48	NE	3	b	1019.7	0	36	-3	-	0	*	b	*	-	*	*				
	Pesaro	1018.9	41	SW	3	bc	1015.4	0	41	+7	SW	3	*	c	3	-	*	*				
	Leghorn	1016.1	50	-	0	b	1018.9	0	46	0	E	4	*	b	5	-	*	*				
	Rome	1016.4	46	NE	3	b	1017.4	0	43	+7	NE	3	*	c	*	-	*	*				
	Brindisi	1018.7	50	E	3	b	1018.6	0	50	+2	-	0	*	f	2	-	*	*				
	Cagliari	1006.6	54	ESE	6	r	1013.2	0	48	.	E	4	*	o	4	-	*	*				
	Palermo	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.45 a.m.

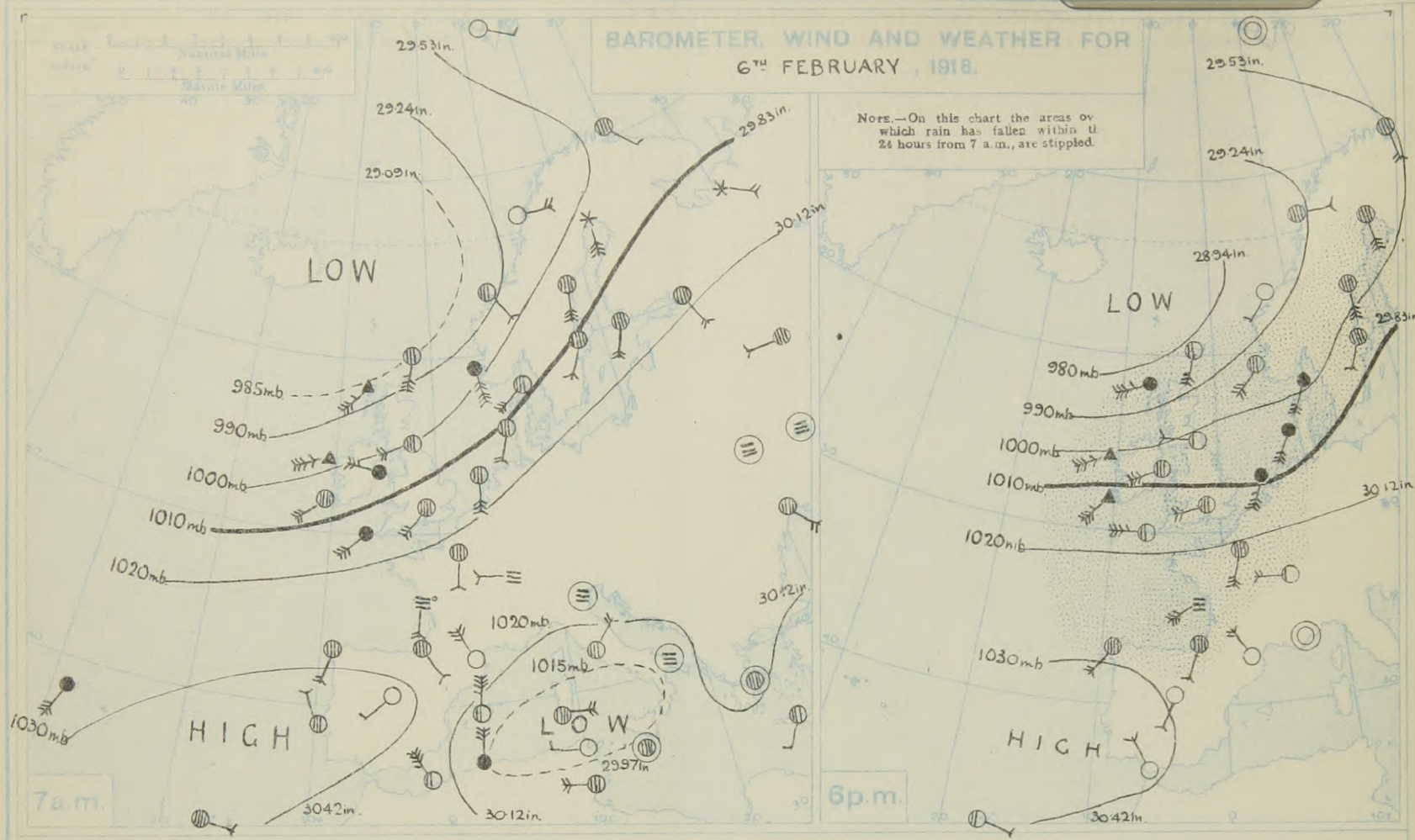
Wind at 800 metres W by S 50 m.p.h.

Wind at 500 metres WSW 35 m.p.h.

GALES.
Duration and Extreme Force in British Islands.

Stornoway:- 6th 1pm & 7th 1am Squalls SW.8.
Castlebay:- 6th 4pm – 7th 7am W.8.
Glasgow:- 6th 2a.m. Squalls WSW.8.
Eskdalemuir:- 6th 3pm. Squalls SW.8.
Malin Head:- 6th 6pm – 7th 7a.m WSW 8-9.
Blacksod Point:- 6th 1pm – 7th 7a.m WSW.8-9.
Southport:- 6th 11pm – 7th 1a.m & 8a.m.-9a.m. W.8. Gusts 22 metres p.second
Holyhead:- 6th. 5pm. WNW 8
Scilly:- 6th. 10a.m. Gusts 27 m.p.s (SW). 7th. 5a.m.-6a.m WNW 8 Gust 28 m.p.s at 5a.m.
Dungeness:- 6th. 10a.m – 4pm. SW.8
Aberdeen:- 7th. 5a.m. Gusts SW 15 m.p.s
Spurn Head:- 6th. 4p.m. Gusts WNW 23 m.p.s.
London (Kew):- 6th 1p.m. Gust SSW.8.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

STORM WARNINGS.

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

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

South Cone hoisted yesterday at 8.40 p.m. in All Districts
— " —

0, 1, 2	Squally South-Westerly to Westerly wind, generally strong to gale; changeable, some rain, hail or snow showers; colder.
3, 4, 5	Squally Southerly to Westerly wind, generally fresh or strong, a gale locally; changeable, fine to dull, some showers; temperature moderate to cool.
6, 7	Same as Nos. 0 to 2.
8	Same as No. 3 to 5.
9	Same as Nos. 0 to 2.
10	Same as Nos. 3 to 5.
11	Squally Westerly wind, strong at times; rough sea and swell; changeable, some rain and mist; moderate temperature.

FURTHER OUTLOOK.

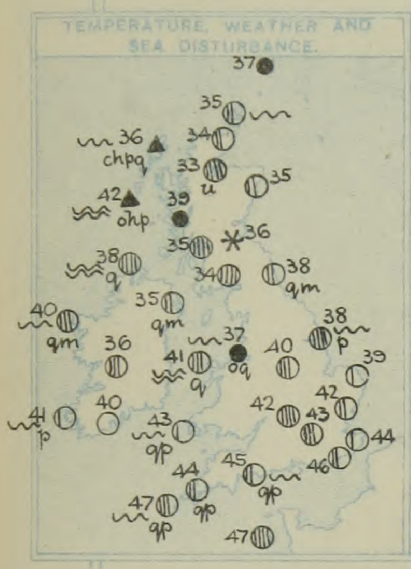
H. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 7TH FEBRUARY, 1916.

GENERAL INFERENCE.

Conditions remaining unsettled.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∼∼. High ∼∼.

HIGH

LOW

Barometer falling

Barometer rising

Barometer falling

Barometer scarcely changing

HIGH

LOW

1000mb 995mb 990mb 985mb 1005mb 1010mb 1015mb 1020mb 1025mb 1030mb

29·53in. 29·38in. 29·24in. 29·09in. 29·68in. 29·83in. 29·97in. 30·12in. 30·27in. 30·42in.

Scale 1:3 x 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for FEBRUARY.

Issue No. 19,800

DAILY WEATHER REPORT.

Monday, 7th February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	5th at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	6th at 7 A.M. local time: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1021·7	1	E	4	b	1013·9	-4	14	-	SE	3	*	s	*	1	*	-3
Uleaborg	1011·4	30	S	2	o	1005·8	-4	27	-5	SSE	4	*	o	*	-	*	*
Helsingfors ...	1018·0	30	SSE	2	b	1014·6	-3	28	-2	SSW	3	*	o	o	-	*	*
Hangö	1016·8	32	SSE	2	b	1013·6	-3	32	+2	SSW	4	*	o	o	-	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1022·0	27	SW	2	f	1005·5	-4	19	-8	SE	3	W	o	*	-	30	19
Moscow	1025·2	21	W	2	f	1025·8	0	18	-5	W	2	*	f	*	-	*	19
Kiev	1023·7	32	SE	2	f	1024·4	0	32	0	-	0	*	f	*	-	*	32
Kharkov	1026·7	28	-	0	o	1027·5	0	27	+2	-	0	*	f	*	-	*	*
Kishinev	1022·0	37	SE	2	o	1024·2	0	36	+4	SE	2	*	f	*	-	*	*
Elisabetgrad ...	1024·7	32	ESE	1	f	1025·2	0	32	-2	ESE	1	*	s	*	-	*	30
Nicolaiev	1024·2	36	SE	2	c	1025·9	*	32	-4	-	0	*	o	o	-	*	32
Odessa	1022·7	37	SE	3	o	1024·3	+2	32	-7	SE	3	*	o	o	-	*	*

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	14	45	37	bc	o p h	0·8
	Banff	-	47	37	bc.b	b.bcq	6·3
	St. Andrews				*	*	
Eng. N.E.	Harrogate	11	48	37	oc	op.c.bc	0·3
	Skegness	2	52	38	ocg	r.bc.o	0·8
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	10	45	39	r.o	r.c.bc	1·3
Midlands.	Buxton						
	Leamington Spa	4	54	36	oc	c.bc.b	1·1
	Malvern	3	51	37	r.o	c.bcb	1·0
	Ross-on-Wye	4	52	41	omr	cbc	0·8
Wales.	Rhyl	15	46	34	bcr	c	0·7
	Colwyn Bay	19	45	41	r	p.bc	0·7
	Llandudno	23	54	41	r	rp	0·3
	Aberystwyth	6	49	40	r.oc	o.c.o	1·5

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft						
	Felixstowe	0·2	50	39	o	op.bc	0·0
	Walton-on-Naze	0·3	49	40	ac.o	dc.bc	0·0
	Southend-on-Sea	-	50	39	o	op	0·0
England, S.E.	Margate	0·2	51	39	o	r	0·0
	Ramsgate	-	47	36	e	d	0·0
	Hastings	2	50	43	op.o	oc	0·0
	Eastbourne	1	51	44	oqe	oqr	0·0
	Seaford						
	Brighton						
	Worthing	1	50	44	o	rc	0·0
	Littlehampton	4	49	42	o	oc	0·0
	Bognor	3	50	45	o	o.bc	0·0
	Southsea	1	51	40	od	od	0·0
	Bournemouth	3	51	42	oc.o	o.bc	0·3
England, S.W.	Weymouth...	2	52	41	p o.c	pcp.c	0·1
	Torquay	5	52	37	od.	o.c.bcb	0·5
	Paignton	5	53	40	od	bcc	1·0
	Penzance						
	Newquay	*	52	43	op	o.cp	1·1
	Ilfracombe						
	Weston-super-Mare ...	4	53	40	oc	bc.b bc	1·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.) ...	92	76	0·0	51	41	35	1	op	o.op	o.b
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	83	0·0	53	42	35	2	odr	oc	o4.bc
Camden Sq. (Brit. Rainfall)	-	78	0·0	52	40	34	1	-	-	*
Hampstead (Reservoir) ...	*	79	0·0	50	38	29	2	o.p	oc.	o.c.bc
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	93	79	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
145 Joules	4·8 Milliwatts	12 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	9	45	42	38	qc	qcp	q,bb	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	3	53	44	36	bcoc	c	bc	0·1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	53	41	?	bc	bc	bmz	*

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

7th & 8th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7·27 / 7·26	12·7 / 12·7	4·47 / 4·48
Greenwich	7·31 / 7·30	12·14 / 12·14	4·57 / 4·58
Wick	8·8 / 8·6	12·26 / 12·26	4·44 / 4·46
Valencia	8·13 / 8·12	12·55 / 12·55	5·37 / 5·38

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station Date and Hour.	Heights in Kilometres	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		Benson, Jan 31, 11·58a		S. Farnboro', Feb 4 7·47a		Benson 4th 11·55am		S. Farnboro', 5th 7·30a									
	4·5	+5	-13														
	4	+3	-14					+7	+1								
	3	+3	-9					+11	-1								
	2	+1	-2					+9	-2								
	1	+3	+5	+12	+20	+12	+12	+10	-6								
	·5	+1	-2	+6	+15	+10	+10	+10	-4								
	0	0	0	+1	+5	+7	+7	+4	0								

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 39. { 8th February

	STATIONS.*	Yesterday Evening: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0-12.	Weather.	This Morning 7 A.M., G.M.T.: Barometer: Millibars at M.S.L.	Change in 3 hours. ‡	Temp.: Dry Bulb.	Change in 24 hours.	Wind: Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Past 24 Hours: Rainfall Millimetres.	Temp.: Max.	Min.	Weather: Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	984.7	39	WSW	5	cq	985.8	0	35	-2	SW	4	SW	c	4	11	42	33	osbc	cqp	cqp	*
	Deerness (Orkney)	988.8	36	WSW	5	cphq	987.5	*	32	-3	SW	5	S	cs	5	10	40	32	b.bc.opq	o.cphq	cs.c	0.3
	Stornoway ...	991.1	34	W	6	cpq	987.2	-3	36	0	SW	5	-	cq	5	8	39	32	c.ophqrl	cphq	cphq	0.1
	Castlebay (Barra Isd.)	995.6	38	W	7	ohpq	992.3	-3	40	-2	WSW	7	SW	bc	7	2	43	34	ohp	ohpq	hsp.bc	0.6
	Glasgow ...	1000.9	34	SW	4	osp	997.9	-2	32	-3	SW	2	-	og	*	14	38	31	o.crsp	osp	o.bspo	0.7
	Eskdalemuir ..	1003.3	34	SW	6	o	1000.7	-2	33	-1	SW	4	-	o	*	3	36	31	o.osq	o.osq,p	o.os.c	0.9
	Malin Head ...	1000.5	36	WSW	8	cq	996.9	-2	35	-3	W	7	-	oqph	8	11	40	33	cqph	cqph	oqphl	0.1
	Blacksod Point	1006.3	38	W	8	bcqhp	1001.8	-3	38	-2	WNW	8	NW	cqphl	6	2	43	35	bcqph	bcqph	cqphl	*
	Valencia ...	1014.3	42	WSW	6	o	1010.6	-2	39	-2	W	6	W	bcph	6	5	45	38	cqh	cqh	o.c.bcp	5.1
	Roche's Point	1015.7	41	W	3	cq	1012.0	*	37	-3	W	3	W	c	3	1	45	36	bcpq	bcqph	bp.c	*
	Birr Castle ...	1010.5	37	W	2	c	1006.9	*	34	-2	W	1	-	o	*	6	42	33	cpsrh	cph.bc	cs.o	4.7
	Donaghadee ...	1005.3	36	WSW	5	bcmq	1001.3	-2	34	-1	W	5	W	bcmq	4	1	40	33	bcqps	bcqps	bcqps	*
	Liverpool (Bidston)	1009.8	37	SW	4	b	1006.0	-2	37	0	SW	4	-	b	3	1	44	36	bq	b.bcp	bx	7.2
	Holyhead ...	1009.8	41	W	5	bcq	1006.3	-3	39	-2	W	5	W	bcq	4	-	44	39	bcq	bcq	bcq	5.7
	Pembroke (St. Ann's)	1014.4	44	WNW	5	bc	1011.5	-2	41	-2	W	4	W	cq	5	3	45	40	bcq	bcq	cq	4.5
	Scilly (St. Mary's)	1018.7	46	W	6	cqp	1013.6	-2	43	-4	W	6	W	cqv	7	2	49	39	bcqp	bcqp	cqpv	6.1
	Falmouth ...	1018.5	40	W	5	bcpq	1012.9	-4	38	-6	WNW	4	-	o	*	3	48	36	ph.cph	b.bcph	b.bcp	6.2
	Jersey (St. Aubin)	1020.4	47	W	4	b	1015.1	*	43	-4	WSW	4	W	bc	3	4	51	41	cp.c	cp.bc.b	cqhp	4.0
	Portland Bill ...	1017.0	44	WNW	4	bc	1012.5	-4	43	-1	W	5	W	b	4	2	48	42	bc.c	bc.cp	bc.cp	*
	Dungeness ...	1014.8	42	WSW	3	b	1011.6	-2	39	-7	W	4	SW	b	3	1	50	38	bc	bc	bc b	*
	Dover	1015.4	40	WSW	4	b	1012.1	-2	36	-8	WSW	3	-	bx	3	-	49	35	bc.b	bc.c.bc	bx	6.5
	Wick	991.5	34	SW	3	o	988.8	-2	32	-2	SW	3	-	bc	3	1	39	30	bcm	cq.pr.s	os.bc	*
	Nairn	994.7	33	W	2	rsu	990.9	*	32	-1	W	3	-	cu	2	6	38	31	brs.c	phrsq	qrss	0.4
	Aberdeen ...	995.7	37	SW	5	b	993.3	-2	34	-1	WSW	4	-	bq	2	-	42	32	b.bcq	bc.bq	bq	4.3
	Leith	1000.3	36	WSW	4	s	?997.7	-1	34	-2	WSW	2	-	s	3	13	39	33	soqs	s.oqs	s.o.cs	*
	Tynemouth ...	1003.1	39	SW	3	bcmq	1001.3	-2	36	-2	W	2	-	bm	3	-	42	35	bcq	bcq	bcm	*
	Spurn Head ...	1008.8	40	WNW	6	bc	1006.0	-1	36	-2	WSW	5	-	bcqx	4	0.1	43	34	bcq	bcq	bq	5.7
	Yarmouth ...	1011.6	41	WNW	2	bc	1009.1	-2	35	-4	WSW	3	-	bc	2	-	46	34	bc	bc	bc	6.5
	Clacton-on-Sea	1013.8	43	WNW	3	bc	1010.5	-1	36	-6	WNW	3	-	b	2	-	47	36	bc	bc	bc.b	6.4
	Nottingham ...	1010.9	40	W	3	b	1007.6	*	35	-5	WSW	3	W	b	*	-	45	33	c.b	b	b	6.2
	Benson (Oxon.) ...	1014.3	37	WSW	3	b	1011.1	*	34	-8	SW	3	-	b	*	1	47	34	b.bc	p.b	b	?
	Sth Farnborough	1015.4	38	WSW	3	b	1011.5	-3	33	-10	WSW	3	W	bx	*	0.3	47	32	bc	p.b	bl.bx	6.2
	London (Kew Obsy.)	1015.1	41	WSW	3	b	1011.2	-2	36	-7	SW	3	W	bm	*	-	46	35	c.bc.b	b.bc.c.bc.b	b bm	5.1
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes ..																					
	Færder (X'iania Fjord)																					
	The Scaw (Skagen)	996.6	36	WNW	5	r	996.3	0	36	-1	WSW	6	SW	c	5	2	41	36				
	Blaavands Huk	1002.4	41	W	4	c	1001.7	0	36	-3	WNW	4	-	c	5	1	48	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1010.6	43	WSW	6	b	1007.8	-2	41	-4	WSW	5	-	bc	5	1	45	41				
	C. Gris Nez ...	1015.4	43	WSW	6	b	1012.2	-2	43	-3	W	6	*	b	6	2	48	43				
	La Hève	1018.3	43	W	5	c	1013.5	*	41	-4	W	5	*	c	6	2	48	37				
	Brest (St. Mathieu)	1022.9	49	WNW	5	c	1017.6	-3	45	-5	W	4	*	c	5	3	52	45				
	Rochefort (Ile d'Aix)	1027.0	50	W	3	c	1019.7	-4	47	-3	W	2	*	o	*	Trace	54	45				
	Biarritz	1027.8	50	W	2	o	1021.3	-4	49	-5	WSW	3	*	r	6	16	55	46				
	Paris	1020.4	43	SW	2	b	1017.1	-3	34	-11	SSW	2	-	b	*	1	52	34				
	Belfort	1022.1	41	WSW	6	o	1020.0	*	37	-2	WSW	4	*	o	*	2	45	37				
	Lyons	1024.7	47	NW	1	o	1021.1	*	41	+2	-	0	*	o	*	1	50	38				
	Nice	1019.1	45	-	0	b	1015.1	-2	42	-2	-	0	*	c	5	-	55	39				
	Perpignan ..	1024.2	55	NW	2	b	1021.2	-4	46	-2	NW	1	W	o	*	-	64	46				
	Sanguinaire ...	*	55	W	3	m	*	*	49	-1	E	2	*	m	4	-	59	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030.7	54	N	1	o	1027.9	-1	46	-6	WSW	3	NW	c	6	4	54	46				
	Madrid (8 a.m.)	1029.5	48	SSW	1	o	1024.4	-3	41	+4	NNW	3	-	r	*	1	48	39				
	Lisbon (9 a.m.)	1029.2	57	WNW	3	o	1027.7	+2	50		NNW	3	-	o	.	-	57	50				
	Gibraltar	1028.1	53	W	2	b	1024.7	*	54	+11	NW	4	*	c	3	-	62	43				
	Malta (8 a.m.) ...	*	*	*	*	*	1018.3	+2	54	+6	NNW	4	-	b	2	8	55	48				
	Azores (Horta, 8 a.m.)	1033.6	*	-	0	o	1039.0	+1	58	-	-	0	*	o	1	-	59	57				
	Madeira (Funchal)	1030.7	63	ENE	3	bc	1031.4	0	54	0	NE	3	-	b	3	-	64	54				
YESTERDAY'S REPORTS		6th ..., 8 P.M. G.M.T.					7th Feb. ......, 7 A.M. G.M.T.															
ITALY.	Venice	1023.7	45	-	0	b	1022.6	0	43	+11	-	0	*	bc	1	-	*	*				
	Turin	1026.0	41	-	0	b	1024.0	0	36	+4	-	0	*	bc	*	-	*	*				
	Florence	1021.9	48	-	0	b	1022.2	0	36	0	-	0	*	b	*	-	*	*				
	Pesaro	1024.4	39	-	0	b	1023.9	0	36	-5	-	0	*	b	3	-	*	*				
	Leghorn	1022.7	50	E	3	b	1022.6	0	45	-1	E	3	*	b	3	-	*	*				
	Rome	1026.2	50	W	3	b	1021.9	0	39	-4	N	3	*	b	*	-	*	*				
	Brindisi	1021.4	52	-	0	r	1021.0	0	50	0	W	4	*	o	3	-	*	*				
	Cagliari	1019.1	52	ESE	4	o	1020.2	0	46	-2	NW	4	*	b	4	3	*	*				
	Palermo	1018.6	46	E	3	b	1019.4	0	48	.	-	0	*	bc	1	-	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.26 a.m.

Wind at 2000 m. W 30 m.p.h.

Wind at 500 m. W by S 25 m.p.h.

GALES
Duration and Extreme Force
in British Islands.

Castlebay.– 7th.
7a.m. – 10a.m. W.8.

Malin Head:– 7th.– 8th.
7a.m.– 7a.m. W – WSW.8.
Ext: 1pm WSW. 9.

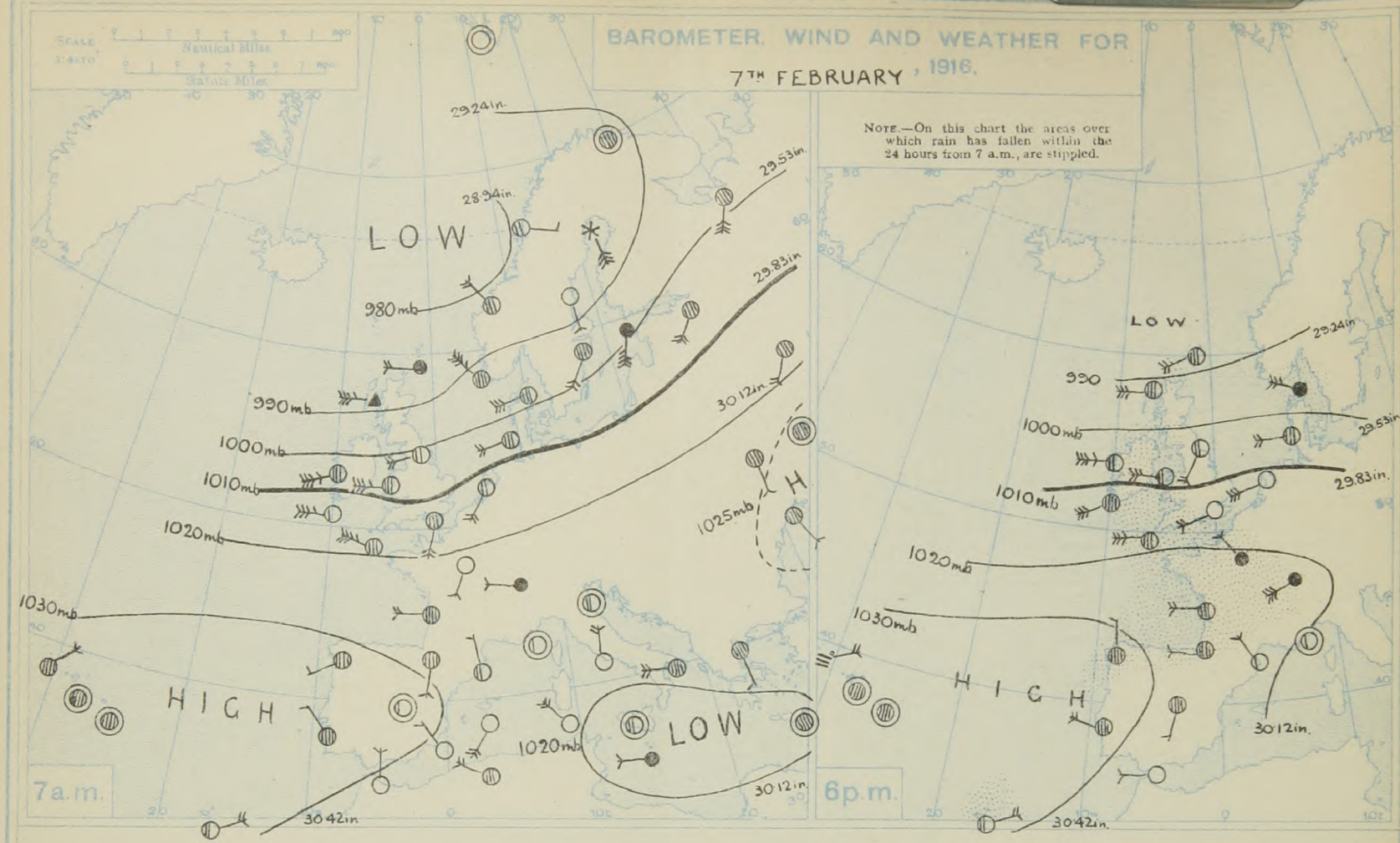
Blacksod Point:– 7th – 8th.
7a.m. – 7a.m. W – WNW. 8
1a.m. W. 9.

Scilly:– 7th.
12 noon & 3pm. W.8.

Aberdeen:– 7th.
1pm. Gusts WSW 19 m.p.s.

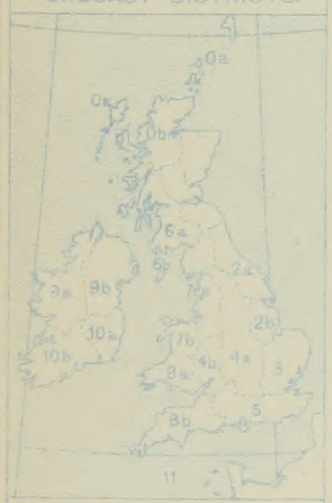
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 7TH FEBRUARY, 1916.



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



0 a, b — Westerly and South-Westerly winds, moderate or strong to high; showers of hail, sleet or snow; temperature low.

1, 2 a, b — South-Westerly and Westerly winds, light to fresh; hail, sleet or snow showers, considerable fair intervals; temperature low.

3, 4 a, b, 5 — Wind mainly Westerly, light or moderate, fresh at times; some local showers of hail, sleet or snow, but fair generally; temperature low.

6 a, b — Same as No. 0.

7 a, b — Same as Nos. 1 and 2

8 a, b — Westerly winds, moderate or fresh, some local showers, but mostly fair; cold.

9 a, b — Same as No. 0.

10 a, b — Westerly winds, moderate to fresh; hail or sleet showers, fair intervals; cold.

11 — Westerly winds, moderate to fresh; sea rather rough to moderate; fair generally, local showers.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

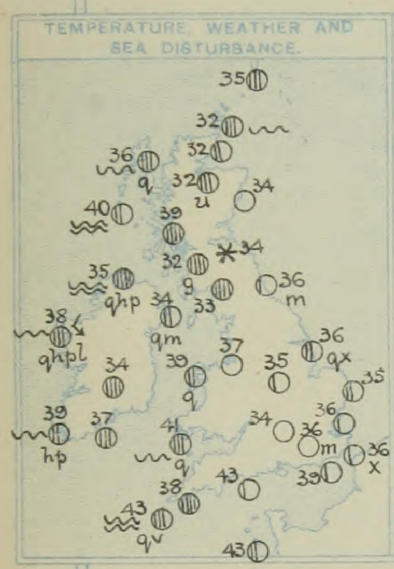
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 8TH FEBRUARY, 1916.

GENERAL INFERENCE.

There are so far no indications of any important change in the type of weather conditions now prevailing.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

LOW

Barometer falling generally

HIGH

9·85mb. 990mb 995mb 1000mb 1005mb 1010mb 1015mb 1020mb 1025mb 1030mb 1035mb

29·09in. 29·24in. 29·38in. 29·53in. 29·68in. 29·83in. 29·97in. 30·12in. 30·27in. 30·42in. 30·56in.

35° 45°

Scale 1:12,130,000
Nautical Miles
Statute Miles

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

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	6th at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	7th at 7 A.M. local time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1000·8	27	SSW	8	c	999·5	-1	32	+18	SSE	4	*	5	0	–	*	19
Uleaborg	996·6	30	SSE	4	0	984·7	-8	32	+5	SSE	4	*	5	*	?	*	*
Helsingfors ...	1008·0	32	SW	3	f	?	-6	34	+6	SSW	5	*	5	0	?	*	*
Hangö	1007·9	34	SSW	3	0	999·0	+7	36	+4	SSW	7	*	r	0	–	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1013·2	28	SW	3	0	1007·3	-4	32	+13	SW	4	.	0	*	–	32	18
Moscow	1022·9	23	WSW	3	0	1018·6	-2	30	+12	SW	3	*	0	*	–	*	25
Kiev	1024·2	34	S	1	0	1022·7	-1	32	0	S	2	*	0	*	–	*	32
Kharkov	1028·0	27	ESE	1	0	1028·8	0	19	-8	–	0	*	0	*	–	*	*
Kishinev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Elisabetgrad ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Nicolaiev	1026·6	32	–	0	0	1026·7	*	32	0	–	0	*	0	0	–	*	30
Odessa	1027·0	34	S	2	0	1026·3	-1	36	+4	SSE	2	*	0	0	–	*	34

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

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	6	42	35	ph.c	c	1·2
	Banff	1	40	33	bc	ps.bc	3·4
	St. Andrews	16	39	31	*	*	3·0
Eng. N.E.	Harrogate	6	41	33	bc.cp	bc.cp	5·8
	Skegness	1	45	37	cp.bc	bc.b	6·5
Eng. N.W.	Morecambe	–	45	36	bc	bc.c	4·3
	Blackpool						
	Southport	1	44	38	shq.c	cp.bc.c	5·0
Midlands	Buxton						
	Leamington Spa	1	45	37	b.bc	b.bc	6·8
	Malvern	4	45	33	b.bc	bc.b	6·0
	Ross-on-Wye	3	46	38	c.bc	bc.b	6·9
Wales.	Rhyl	5	45	36	.	.	6·5
	Colwyn Bay	4	43	36	bc	ph	6·4
	Llandudno	4	44	36	bch.c	c	5·5
	Aberystwyth	3	45	41	r.o.c	c.bc	6·0
	Tenby	5	46	40	bch	bcp	5·4

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	3	47	37	cp.bc	bc.b.bc	6·6
	Felixstowe	–	47	40	bc	bc	6·2
	Walton-on-Naze	–	46	40	b.bc	bc.b.bc	6·2
	Southend-on-Sea	–	48	41	bc.b	b	6·0
England, S.E.	Margate	–	48	40	b	b	5·4
	Ramsgate	2	48	39	r.bc	bc	6·7
	Hastings	1	50	39	od.c.b	bc.op	6·0
	Eastbourne	2	49	42	b	b.bc.b	6·7
	Seaford	1	50	42	c.r	c.b	6·8
	Brighton	0·3	48	44	bc	bc	6·7
	Worthing	–	51	43	b	b.bc	7·8
	Littlehampton	1	49	43	b	b	7·6
	Bognor	0·3	49	41	b	b.or	7·3
	Southsea	–	49	42	b	b	6·8
	Bournemouth	–	49	40	b	b	6·6
England, S.W.	Weymouth	2	48	40	b.p	p.bcy	6·5
	Torquay	7	48	41	b	b.bc.c.op	5·4
	Paignton	2	50	42	p.bc	bc	7·1
	Penzance	2	49	44	cprh	bc	5·1
	Newquay	*	47	40	bcp	bcp	5·0
	Ilfracombe						
	Weston-super-Mare ...	2	47	40	b.bc.b	b.bc	5·0

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday.	Humidity 9 a.m. To-day.	Sunshine for Yesterday.	Temperature In Screen Max. (24 hours ended 9 a.m. To-day)	Temperature In Screen Min.	Temperature Min. on Grass.	Rainfall.	Weather Forenoon.	Weather Afternoon.	Weather Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	60	85	5·5	47	34	28	–	b.bc	bc.b	b.bx
City (Bunhill Row)	*	*	4·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	88	4·8	48	34	30	.	bc	bc	bc
Camden Sq. (Brit. Rainfall)	60	85	4·9	49	34	28	.	bc.b	b	*
Hampstead (Reservoir) ...	*	81	5·8	46	31	23	–	bc	b.bc	bx.m
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	5·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	62	88	5·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
53·8 Joules	15·8 Milliwatts.	33 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature In Screen Max.	Temperature In Screen Min.	Temperature Night Min. on Grass.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	3	49	39	36	bc.p.	bcpbc	bcp	7·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	51	41	?	bc.b	bc.b	bz	*

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

8th & 9th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.26 / 7.24	12.7 / 12.7	4.48 / 4.50
Greenwich	7.30 / 7.28	12.14 / 12.14	4.58 / 5.0
Wick	8.6 / 8.3	12.26 / 12.26	4.46 / 4.48
Valencia	8.12 / 8.10	12.55 / 12.55	5.38 / 5.40

NOTES ON YESTERDAY'S WEATHER.

The maximum temperature was lower than of late over the Kingdom generally, and slight frost was experienced at night in many localities. Snow fell in Scotland, rather heavily locally. Bright sunshine was very prevalent over 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; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 40. { WEDNESDAY, 9TH FEBRUARY.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	981.9	39	S	4	c	983.4	+1	37	+2	WSW	2	-	c	2	2	39	33	cqsp	cq	c	*
	Deerness (Orkney)	?	35	SW	5	c	983.7	*	36	+4	WSW	2	-	ep	4	7	38	32	cps.bc	bc.cps.c	cp.o	1.6
	Stornoway ...	982.6	37	W	5	cps	988.1	+5	38	+2	NW	6	-	cq	5	20	39	34	opsq7	o.cpsq	bc.cq	0.0
	Castlebay (Barra Isd.)	988.8	42	W	7	ohpq	991.8	+3	43	+3	WNW	6	W	bcq	6	4	43	34	bchp	b.ohpq	hp.bcq	0.8
	Glasgow ...	993.9	33	SSW	3	ou	991.8	0	35	+3	WSW	2	W	c	*	5	38	32	osp.c	csp	csp.cp	0.6
	Eskdalemuir ...	996.4	31	SW	5	o	994.1	0	32	+1	SW	3	-	o	*	0.2	35	31	o.os	c.os	o.c.os	1.3
	Malin Head ...	995.2	39	W	7	cphq	993.9	0	40	+5	W	8	W	cq	9	4	40	34	cqph	cq	cq	0.6
	Blacksod Point	1001.4	38	W	8	cm	1000.4	+4	39	+1	NW	7	NW	cph7	6	4	40	33	cmqph	omqph	cqph1	*
	Valencia ...	1009.3	39	W	5	c	1004.4	+2	43	+4	NW	6	NW	bcq	5	12	44	35	cqhs	bcqhs	cpq	1.5
	Roche's Point	1009.9	39	W	5	o	1003.0	*	39	+2	WNW	3	-	cq	3	1	40	35	cspq	cspq	oh.b.op	*
	Birr Castle ...	1004.5	32	SW	1	c	1000.1	*	33	-1	W	1	-	c	*	3	36	32	cps.bc	cps	cps	0.5
	Donaghadee ...	998.5	33	W	5	bcqmp	996.1	0	33	-1	W	4	W	cmsx	4	0.2	38	30	bcqps	bcqps	bcqmx	*
	Liverpool (Bidston)	1001.8	36	SW	4	b	996.9	-1	35	-2	WSW	4	SW	ps	4	0.4	42	33	bcpsl	bcps	bcps	6.4
	Holyhead ...	1002.1	38	W	7	cpsq	997.2	-3	38	-1	W	6	W	c	5	TRACE	45	37	o.cpsq	cpsq	bc.b	1.3
	Pembroke (St. Ann's)	1006.4	37	WNW	5	bcqph	1000.4	-2	42	+1	WNW	4	-	oqp	4	1	43	35	bcqph	bcq	bcq.cq	3.2
	Scilly (St. Mary's)	1010.0	40	WNW	6	cqph	1002.4	-1	43	0	NW	3	NW	cp	6	5	45	36	bcqp	bcqph	cqpl	2.6
	Falmouth ...	1009.1	39	NNW	5	bcq	1001.8	-4	38	0	WNW	3	-	o	*	5	43	36	ph.bc	c.bcph	cph	2.5
	Jersey (St. Aubin)	1008.7	40	W	6	oqp	1002.6	*	40	-3	WNW	3	-	o	3	8	46	36	bcqp	bchqp	bqhp	2.8
	Portland Bill ...	1006.2	42	WNW	5	bc	1001.0	-2	39	-4	NNW	3	NW	c	4	1	46	36	bc	bch	bcp	*
	Dungeness ...	1004.6	41	SW	4	cq	1001.2	-1	28	-11	W	2	W	bcx	3	-	48	28	bc.o	omhq	b.bcx	*
	Dover	1004.9	37	WSW	3	b	1001.1	-1	30	-6	WNW	3	-	b	2	-	45	29	b.bc	p.r.o.b	b.bcx.b	0.0
	Wick	982.6	34	SW	4	c	984.7	+1	35	+3	W	3	-	r	3	4	37	32	bcmps	cmsp	cm.or	*
	Nairn	984.6	34	W	4	orsqg	988.0	*	36	+4	W	2	-	cg	2	6	36	31	ps.bc	gqrs	prs.bc	1.4
	Aberdeen ...	986.9	35	SSW	5	o	988.2	+2	35	+1	WSW	1	-	bz	2	-	40	33	bq	b.bc.o	o.bc.bz	5.3
	Leith	993.1	35	SW	2	c	990.5	0	37	+3	SW	2	SW	c	3	10	38	33	s.oc.o	os.oc	cs.o.c	*
	Tynemouth ...	996.7	36	WSW	3	cmp	992.5	-2	36	0	N	4	-	cq	4	1	40	34	bcm	bcm	cq	*
	Spurn Head ...	1001.1	39	WSW	4	bc	996.7	-1	33	-3	W	5	-	bcqx	4	-	41	31	bcq	bc	bc	4.0
	Yarmouth ...	1003.4	40	W	3	bc	999.8	-3	30	-5	SW	2	-	bcmx	2	-	44	29	bc	bc	bc.bm	6.0
	Clacton-on-Sea	1004.4	39	W	2	c	999.6	-2	31	-5	WNW	2	-	b	1	-	44	30	b.bc.c	c.bc.c	c.bc.bx	4.5
	Nottingham ...	1001.9	36	W	2	c	998.2	*	29	-6	ESE	1	-	b	*	-	43	28	bc	c	c.b	2.6
	Benson (Oxon.) ...	1004.6	36	WSW	3	bc	1000.5	-2	27	-7	S	1	-	b	*	-	46	21	bc	o	b	*
	Sth Farnborough	1005.0	36	W	3	bc	1000.8	-3	27	-6	SW	1	-	bx	*	0.1	44	26	bc.cbc	c.bc.c	bc.l.bx	4.6
	London (Kew Obsy.)	1004.7	39	SW	3	c	1000.9	-3	30	-6	SW	1	-	bmx	*	-	34	29	bmx.om	o.c	c.bc.bmx	2.7
NORTHERN EUROPE.	Spitsbergen ...	1014.0	1	S	5	4	1021.1	+2	-8	-6	SSE	2	*	b	*	*	3	-11				
	Vardö	997.6	21	ENE	6	S	1002.7	+2	21	-4	E	5	-	o	4	*	25	21				
	Bodö	987.9	32	E	2	b	993.0	+1	28	-8	E	2	-	b	2	-	36	28				
	Christiansund	987.1	37	SE	1	b	990.0	+1	32	-4	-	0	-	b	3	-	39	32				
	Skudesnaes ..	990.3	37	WSW	4	c	987.5	+2	36	-1	S	6	-	r	5	6	39	34				
	Færder (Christiania Fjord)	993.3	36	SW	5	b	994.9	+2	34	-3	SW	2	-	o	3	Trace	37	32				
	The Scaw (Skagen)	996.4	36	SW	4	bc	996.6	0	34	-2	SW	5	S	c	5	2	39	32				
	Blaavands Huk	1000.6	39	WNW	4	c	997.1	0	37	+1	SW	2	-	o	3	Trace	39	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1003.4	41	WSW	4	c	998.6	-1	37	-4	WSW	2	-	c	3	4	43	34				
	C. Gris Nez ...	1005.1	41	SW	5	o	1000.6	-2	36	-7	W	4	*	c	3	6	45	36				
	La Hève	1007.7	40	NW	5	r	1002.1	*	40	-1	SW	5	*	r	5	12	45	36				
	Brest (St. Mathieu)	1011.9	43	NW	6	c	1005.0	-5	43	-2	WNW	3	*	r	5	7	46	36				
	Rochefort (Ile d'Aix)	1013.3	43	WNW	3	o	1010.0	-3	46	-1	W	5	*	o	*	6	52	39				
	Biarritz	1017.2	47	WNW	4	r	1015.5	-2	48	-1	WNW	4	*	o	6	18	50	43				
	Paris	1008.8	41	SSW	2	b	1005.0	-2	34	0	SSW	2	-	o	*	2	46	32				
	Belfort	1012.8	37	-	0	b	1006.0	*	32	-5	W	4	*	S	*	4	42	32				
	Lyons	1014.0	41	W	1	o	1009.7	*	36	-5	NW	3	*	o	*	1	48	34				
	Nice	1008.4	46	-	0	0	1001.6	-3	41	-1	-	0	*	bc	2	1	52	39				
	Perpignan ..	1013.6	46	NW	3	o	1012.3	+1	41	-5	NW	5	W	b	*	Trace	52	39				
	Sanguinaire ...	*	51	NNW	3	o	*	*	48	-1	NNW	2	*	o	4	9	57	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026.9	48	N	5	c	1017.5	-1	50	+4	WSW	7	-	r	6	11	52	45				
	Madrid (8 a.m.)	1020.7	46	WNW	3	b	1023.4	+3	36	-5	SW	2	E	b	*	1	48	36				
	Lisbon (9 a.m.)																					
	Gibraltar	1025.4	53	W	4	b	1027.1	*	47	-7	NW	5	*	b	3	1	58	46				
	Malta (8 a.m.) ...	*		*	*	*	1013.3	-1	55	+1	SSW	4	-	c	1	-	57	54				
	Azores (Horta, 8 a.m.)	1039.8	*	SE	3	bc	1038.4	-1	55	-3	-	0	*	bc	1	-	64	54				
	Madeira (Funchal)	1031.3	64	N	3	r	1032.7	0	57	+3	NE	3	-	bc	3	1	64	54				
YESTERDAY'S REPORTS		.....7th ..., 8 P.M. G.M.T.					.....8th. ....., 7 A.M. G.M.T.															
ITALY.	Venice	1019.1	41	-	0	b	1016.2	0	34	-9	NE	3	*	f	2	-	*	*				
	Turin	1019.1	43	-	0	b	1016.3	0	36	0	-	0	*	c	*	-	*	*				
	Florence	1019.6	43	-	0	b	1016.6	0	39	+3	-	0	*	o	*	-	*	*				
	Pesaro	1019.1	37	-	0	b	1016.2	0	34	-2	SW	3	*	o	3	-	*	*				
	Leghorn	1020.3	50	-	0	b	1016.4	0	45	0	E	3	*	c	3	-	*	*				
	Rome	1020.2	46	-	0	b	1017.2	0	36	-3	N	3	*	bc	*	-	*	*				
	Brindisi	?	?	NW	4	b	1018.2	0	48	-2	NW	4	*	b	3	-	*	*				
	Cagliari	1021.2	54	NW	4	b	1017.5	0	48	+2	WSW	4	*	o	4	3	*	*				
	Palermo	1020.0	52	-	0	bc	1019.3	0	48	0	SE	3	*	b	2	5	*	*				

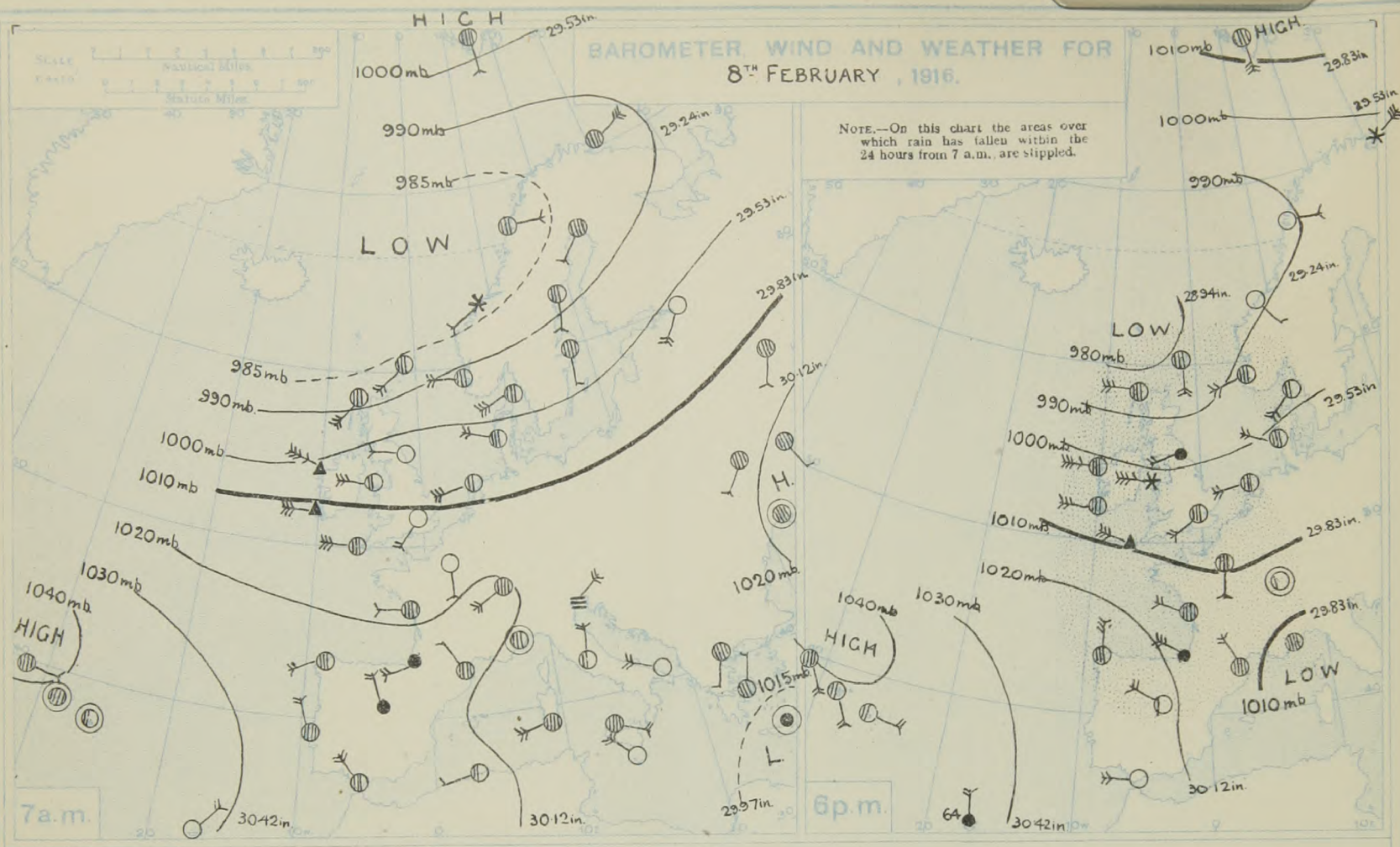
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.20 a.m.

Wind at 2000 m. NW by W 22 mph.
Wind at 500 m. W 14 mph.

GALES.
Duration and Extreme Force in British Islands.

Malin Head:— 9th.
7 a.m. W.8.
Blacksod Point:— 8th - 9th.
7 a.m. — 5 a.m. W.8.
Ext. W.9. or 1 a.m.
Scilly:— 8th - 9th.
4 p.m. Squalls WNW 9.
10 p.m., 12 p.m., & 2 a.m. Squalls WNW.8.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

STORM WARNINGS.

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

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

South Cone Hoisted at 2 p.m. yesterday in Districts 0, 1, 2, 6, 7 and 9.

Western Channel and Bay

0 a, b, 1 — Westerly to North-Westerly winds, light or moderate to fresh or strong; changeable, rain, sleet or snow showers; temperature low.

2 a, b, 3, 4 a, b, 5 — Westerly to North-Westerly winds, light to moderate or fresh; mostly fair but local showers of hail or snow; low temperature.

6 a, b, 7 a, b — Wind mainly North-Westerly, moderate or fresh, strong locally; changeable, rain or snow showers, fair intervals; cold.

8 a, b — North-Westerly winds, light to moderate or fresh; some showers, otherwise fair; cold.

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

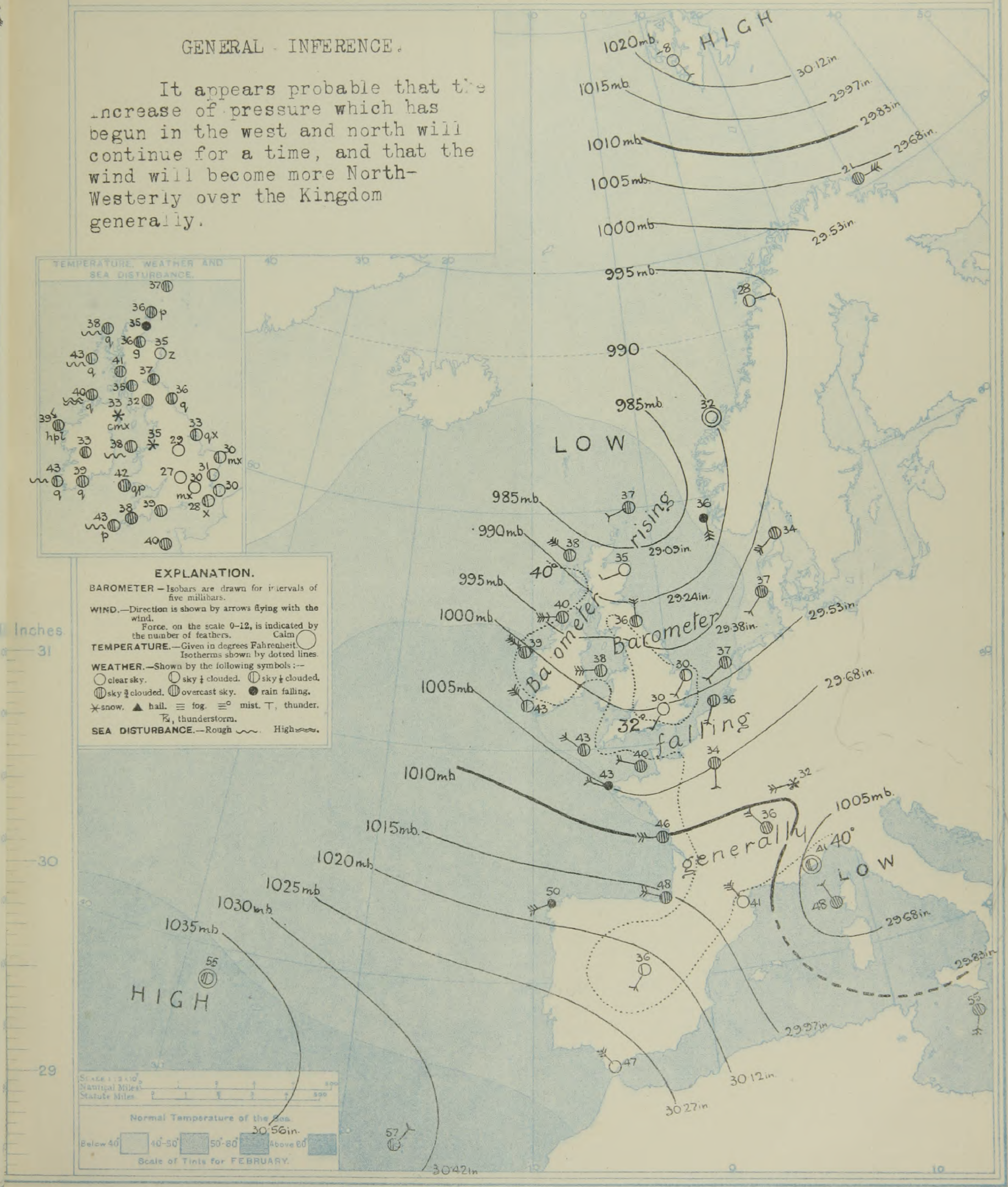
11 — North-Westerly winds, light or moderate; sea rather rough; some showers, otherwise fair.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 9TH FEBRUARY, 1916.



Issue No. 19,802.

DAILY WEATHER REPORT.

Wednesday, 9th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	7 AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	8 AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	985·6	32	SW	5	0	987·9	+3	25	+2	SSW	3	*	0	*	?	*	*
Helsingfors ...	998·6	34	SW	3	c	997·8	−2	34	0	SSW	3	*	0	0	1	*	*
Hangö	999·8	34	SSW	4	0	996·7	−3	32	−4	WSW	5	*	5	0	1	*	*
Riga	1006·9	34	–	0	0	1004·4	−2	34	.	SSW	1	*	f	0	3	*	*
Petrograd	1002·1	34	SW	4	5	1002·9	+1	36	+4	SW	4	.	b	*	1	34	30
Moscow	1014·5	32	SW	3	0	1013·5	0	28	−2	WSW	2	*	0	*	–	*	28
Kiev	1019·4	32	S	2	0	1016·0	−1	32	0	SW	2	*	0	*	–	*	32
Kharkov	1028·0	19	SSE	1	0	1023·4	0	19	0	SSE	1	*	0	*	–	*	*
Kishinev	1021·1	36	–	0	0	1017·5	−2	34	.	S	2	*	f	*	1	*	34
Elisabetgrad ...	1023·4	30	S	3	f	1020·0	−2	28	.	SSE	2	*	0	*	–	*	27
Nicolaiev	1023·9	32	SE	3	0	1021·0	*	30	−2	–	0	*	r	0	–	*	28
Odessa	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	41	34	ph	c.o	1·0
	Banff	–	39	33	bc	bc	5·2
	St. Andrews				*	*	
Eng. N.E.	Harrogate	3	37	33	bc.csp	csp.bc	2·5
	Skegness	0·1	42	32	o.bc	bc	3·6
Eng. N.W.	Morecambe	2	39	37	h.bch	h.bch	3·1
	Blackpool						
	Southport	2	43	37	dl.c.ohqp	chpq.bc	3·5
Midlands.	Buxton	1	39	32	bc	bcsh	5·1
	Leamington Spa	–	42	34	c.bc	c.bc	3·2
	Malvern	–	43	33	b.bc	bc.b	3·8
	Ross-on-Wye	1	43	34	bcm	cph	3·4
Wales.	Rhyl	2	43	35	q	q	‡3·0
	Colwyn Bay	1	42	35	bc	phs	4·4
	Llandudno	1	42	36	c.b.bc	b	3·2
	Aberystwyth	1	43	40	rc.b	c.o	3·0
	Tenby	2	44	37	bch	bc.cp	3·3

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	–	45	33	bc.c.bc	bc.c	5·7
	Felixstowe	–	44	34	bc	bc	3·5
	Walton-on-Naze	.	43	34	bcg.b	bc.o.b	3·7
	Southend-on-Sea	–	45	34	bc.b	bc.b	4·0
England, S.E.	Margate	–	45	35	b	c	2·0
	Ramsgate	–	44	33	bc	c	3·1
	Hastings	2	47	35	b.bc	oh.bc.b	3·0
	Eastbourne	5	47	38	b.o	oh	3·5
	Seaford	1	47	39	bcp	bc	3·6
	Brighton						
	Worthing	0·3	46	35	b.bc	ch.bc	3·6
	Littlehampton	1	45	37	b.bc	b.bc	4·0
	Bognor						
	Southsea	–	46	38	bc	bc	3·1
	Bournemouth	1	46	34	bc	or.o	2·8
England, S.W.	Weymouth	2	45	38	bcp	p.bcg	3·3
	Torquay	4	44	37	o.c	c.o	3·8
	Paignton	4	46	36	bcp.bc	s.c	3·9
	Penzance	11	45	37	cprh	cph.bc	2·5
	Newquay	*	47	37	bc.cph	bc.cph	2·3
	Ilfracombe						
	Weston-super-Mare ...	7	47	36	r.ohs.c	bchp.c	0·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	68	86	2·9	46	28	24	.	b.	bc.c.	bc.bx.
City (Bunhill Row)	*	*	0·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	71	80	1·5	45	28	28	.	bc	bce	bc.mz
Camden Sq. (Brit. Rainfall)	72	84	1·8	45	28	23	.	bcm.	bc.c	*
Hampstead (Reservoir) ...	*	75	2·5	42	26	18	.	bcm	bc.c	bcx.f.
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	2·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	73	81	2·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.	Total.	Average Rate.	Max. Rate.
	450 Joules	13·2 Milliwatts.	36 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	38	34	31	bcq.s	qphs	qhsb	*
Darwen to 9 p.m.	4	38	32	31	c.ors.tl	csh.b	b.opsh	1·7
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	4	46	36	30	bcp.bc	bc	bc.or	3·1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	45	35	25	b.bc	bcm	bc.b	*

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

9th & 10th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.24 / 7.22	12.7 / 12.7	4.50 / 4.52
Greenwich	7.28 / 7.26	12.14 / 12.14	5.0 / 5.2
Wick	8.3 / 8.0	12.26 / 12.26	4.48 / 4.51
Valencia	8.10 / 8.8	12.55 / 12.55	5.40 / 5.42

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° at some of our northern stations and below 45° over a very large area. Snow and hail showers were common in the North and North-West and occurred locally elsewhere, but a considerable duration of sunshine was experienced in England. Aurora was observed at Lerwick.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 41. 10th February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	993.8	40	NW	4	c	1004.6	+2	37	0	NW	3	-	c	3	2	41	35	bc	bc	cp	*
	Deerness (Orkney)	995.9	39	NW	6	bcpq	1005.7	*	36	0	NW	3	N	bc	2	2	39	36	ob.c	cp.bc	bc	0.5
	Stornoway ...	1003.4	38	NNW	6	cphrq	1008.5	0	35	-3	NW	3	-	b	3	8	41	34	cprhq	cphrq	bcp.b	1.9
	Castlebay (Barra Isd.)	1005.9	44	NW	5	bhp	1010.1	0	39	-4	-	0	-	o	2	0.3	46	37	bchpq	cphq.b	hp.bco	6.2
	Glasgow ...	1001.9	38	WNW	2	b	1010.9	+3	34	-1	W	1	-	b	*	Trace	41	32	c.bc.b	b	bmx	6.0
	Eskdalemuir ...	1000.4	35	NW	6	b	1010.9	+3	29	-3	-	0	N	bx	*	-	39	29	o.c.bc	bc.ob	b	3.8
	Malin Head ...	1001.4	43	NNW	8	cq	1011.6	0	40	0	WSW	3	NW	cp	3	2	45	37	bcq	bcq	cqp	4.7
	Blacksod Point	1012.5	43	NW	6	cm	1011.9	-4	42	+3	SSW	3	-	cm	3	1	46	37	bc	cmp	cp.cm	*
	Valencia ...	1016.7	45	NNW	5	c	1015.9	-2	44	+1	S	3	-	or	5	2	47	37	bcqh	bcqph	bc.c.o	3.5
	Roche's Point	1013.6	43	NNW	3	b	1018.1	*	42	+3	WSW	2	-	o	3	1	46	38	cp.bc.b	bcpq b	b.o	*
	Birr Castle ...	1011.9	40	NW	1	c	1014.9	*	39	+6	W	1	-	r	*	1	45	33	cps	c	c.od	5.3
	Donaghadee ...	1005.8	42	NW	5	bcz	1012.3	+1	35	+2	WNW	4	-	bcmx	4	1	44	32	cmp	bcz	bcmqp	*
	Liverpool (Bidston)	1003.5	41	W	4	b	1011.6	+3	40	+5	W	3	-	b	4	1	44	33	ops	o	b	3.5
	Holyhead ...	1005.8	45	NW	7	bcq	1013.0	+1	42	+4	NW	6	N	bc	5	0.2	46	35	cpspr	c.bcq	bcb	2.6
	Pembroke (St. Ann's)	1008.6	44	N	4	bcq	1016.2	+2	43	+1	NNW	4	NW	bc	4	3	44	35	cq.oqp	cqp	bq.bc	1.5
	Scilly (St. Mary's)	1009.4	46	NNW	8	cqp	1017.8	+2	46	+3	N W	5	NW	cqp	6	3	46	40	cqp	cqp	cq.cp	4.3
	Falmouth ...	1009.0	39	N	7	cphq	1016.9	+2	42	+4	NNW	3	-	c	*	14	44	34	ph.sdc	ohq.ch	c.bcph	2.2
	Jersey (St. Aubin)	1002.4	40	N	3	c	1015.1	*	44	+4	NW	3	NW	bc	3	11	44	34	oqp	orhsc	b.bc	0.0
	Portland Bill ...	1006.0	39	NNW	3	b	1013.4	+4	42	+3	NW	5	-	b	3	2	43	37	cr	c.bc	bc.b	*
	Dungeness ...	1002.9	34	W	2	b	1009.2	+3	32	+4	WNW	3	-	bx	2	-	42	28	bc	bc	bc.bx	*
	Dover ...	1004.1	34	-	0	bx	1009.4	+3	36	+6	NW	5	-	bx	2	-	46	30	b	bz	bx	7.5
	Wick ...	997.2	39	NW	3	c	1006.7	+2	34	-1	WNW	2	-	bc	3	4	40	34	omrsp	o m.c	bcp	*
	Nairn ...	1000.4	38	WNW	2	cq	1008.5	*	35	-1	W	1	-	bc	2	1	40	34	b.bcqd	cd	p.cx	0.4
	Aberdeen ...	996.9	38	WNW	5	b	1007.9	+4	37	+2	NW	4	NW	bc	2	1	43	33	b.bcq	opq b	bcq	3.3
	Leith ...	999.2	39	W	2	bc	1009.5	+3	34	-3	SW	1	SW	bc	2	-	43	33	c bc	b	bc.bc	*
	Tynemouth ...	998.8	40	NNW	4	bmq	1008.2	+4	34	-2	NW	3	-	bcm	3	-	43	34	bcq	bcq	bcm	*
	Spurn Head ...	999.7	39	WNW	4	c	1008.6	+3	37	+4	WNW	6	-	bcqx	5	-	41	33	bc	bcm	bm	5.3
	Yarmouth ...	1002.1	36	W	1	bc	1006.4	+5	36	+6	NW	4	-	o	3	-	42	29	bcm	bcm	bcm.o	7.0
	Clacton-on-Sea	1002.7	36	WNW	2	bc	1008.5	+5	35	+4	WNW	2	-	b	1	-	44	30	b.bc	bc	bc.bx	8.1
	Nottingham ...	1002.5	37	W	3	b	1010.2	*	36	+7	WNW	2	-	bm	*	-	41	29	bm	bm	b	5.1
	Benson (Oxon.) ...	1004.7	34	NW	3	b	1011.8	+3	34	+7	WNW	2	-	b	*	-	42	30	bc	bc	b	*
	Sth Farnborough	1004.0	34	WNW	1	b	1011.4	+3	36	+9	NW	3	-	bx	*	-	41	26	bc.bbc	bc.b	b.c.x.bx	4.8
	London (Kew Obsy.)	1004.3	37	WNW	1	bm	1011.5	+4	36	+6	WNW	2	-	bmx	*	-	42	30	bmx bc	bc.bm	bm.bmx	6.6
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö ...															*						
	Bodö ...																					
	Christiansund																					
	Skudesnaes ...																					
	Færder (X'iania fjord)																					
	The Scaw (Skagen)	999.9	36	SSW	3	c	1005.3	+1	34	0	E	1	-	bc	0	-	37	32				
	Blaavands Huk	998.7	37	SSW	2	b	1003.8	+3	36	-1	SSE	2	-	o	1	Trace	39	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...														*							
	Karlstad ...														*							
FRANCE, &c.	The Helder ...	1002.0	39	W	2	bc	1023.0	+2	39	+2	NW	2	-	c	3	4	43	36				
	C. Gris Nez ...	1001.5	38	W	2	b	?	+3	38	+2	WNW	5	*	b	4	-	41	36				
	La Hève ...	1002.4	37	SSW	2	r	1009.7	*	39	-1	NNW	5	*	bc	3	3	37	32				
	Brest (St. Mathieu)	1007.8	41	NNE	7	o	1018.7	+2	45	+2	NW	5	*	c	4	8	46	41				
	Rochefort (Ile d'Aix)	1000.4	41	N	4	r	1018.6	+4	41	-5	NNW	3	*	b	*	17	46	36				
	Biarritz ...	1001.6	48	NW	6	r	1018.3	+7	45	-3	NNE	3	*	c	7	21	52	39				
	Paris ...	1002.6	34	NNE	2	b	1011.4	+2	32	-2	SW	2	-	b	*	1	41	27				
	Belfort ...	1002.0	33	WSW	4	bc	1012.3	*	28	-4	NW	4	*	o	*	1	37	28				
	Lyons ...	1003.0	34	SE	1	b	1014.6	*	31	-5	NW	4	*	o	*	-	42	30				
	Nice ...	997.6	39	-	0	b	1003.7	+7	37	-4	NE	1	*	c	1	2	54	34				
	Perpignan ...	1000.2	46	S	2	o	1009.7	+7	41	0	NW	6	N	bc	*	2	52	37				
	Sanguinaire ...	*	48	NNW	7	m	*	*	47	-1	E	3	*	o	5	-	50	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017.5	54	N	6	o	1027.8	+4	45	-5	WSW	2	-	f	5	6	55	45				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar ...	1023.0	56	NW	7	o	1021.7	*	53	+6	NW	4	*	b	3	Trace	56	47				
	Malta (8 a.m.)	*	*	*	*	*	1007.8	0	48	-7	WNW	1	-	bc	1	-	59	48				
	Azores (Horta, 8 a.m.)	1035.9	*	S	4	o	1032.0	0	60	+5	SSW	6	*	c	3	-	61	56				
	Madeira (Funchal)	1032.7	63	NE	3	bc	1031.8	0	55	-2	NE	2	-	b	3	-	64	55				
YESTERDAY'S REPORTS				8th ..., 8 P.M. G.M.T.							9th ..., 7 A.M. G.M.T.											
ITALY.	Venice ...	1010.6	41	-	0	r	1000.1	-5	39	+5	NE	3	*	r	4	19	*	*				
	Turin ...	1009.2	43	-	0	0	1001.3	-8	39	+3	-	0	*	o	*	-	*	*				
	Florence ...	1009.5	45	-	0	r	1000.6	-5	43	+4	-	0	*	r	*	12	*	*				
	Pesaro ...	1009.6	45	-	0	0	998.8	-9	45	+11	-	0	*	o	3	6	*	*				
	Leghorn ...	1010.4	54	W	4	0	1002.9	-8	48	+3	-	0	*	o	4	14	*	*				
	Rome ...	1010.6	52	S	1	0	1001.2	-3	52	+16	S	4	*	r	*	10	*	*				
	Brindisi ...	1014.4	55	S	3	b	1009.5	-5	48	0	S	3	*	c	2	-	*	*				
	Cagliari ...	1013.6	54	NW	5	bc	1008.9	+5	48	0	NW	3	*	r	4	-	*	*				
	Palermo ...	1015.6	50	-	0	b	1009.4	-19	55	+7	SW	3	*	c	4	-	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.26 a.m.

Wind at 1000m. NNW 45 m.p.h.

Wind at 500m. NNWbyN 30 m.p.h.

GALES.
Duration and Extreme Force in British Islands.

Malin Head:- 9th.

2p.m. - 7p.m. NW.8.

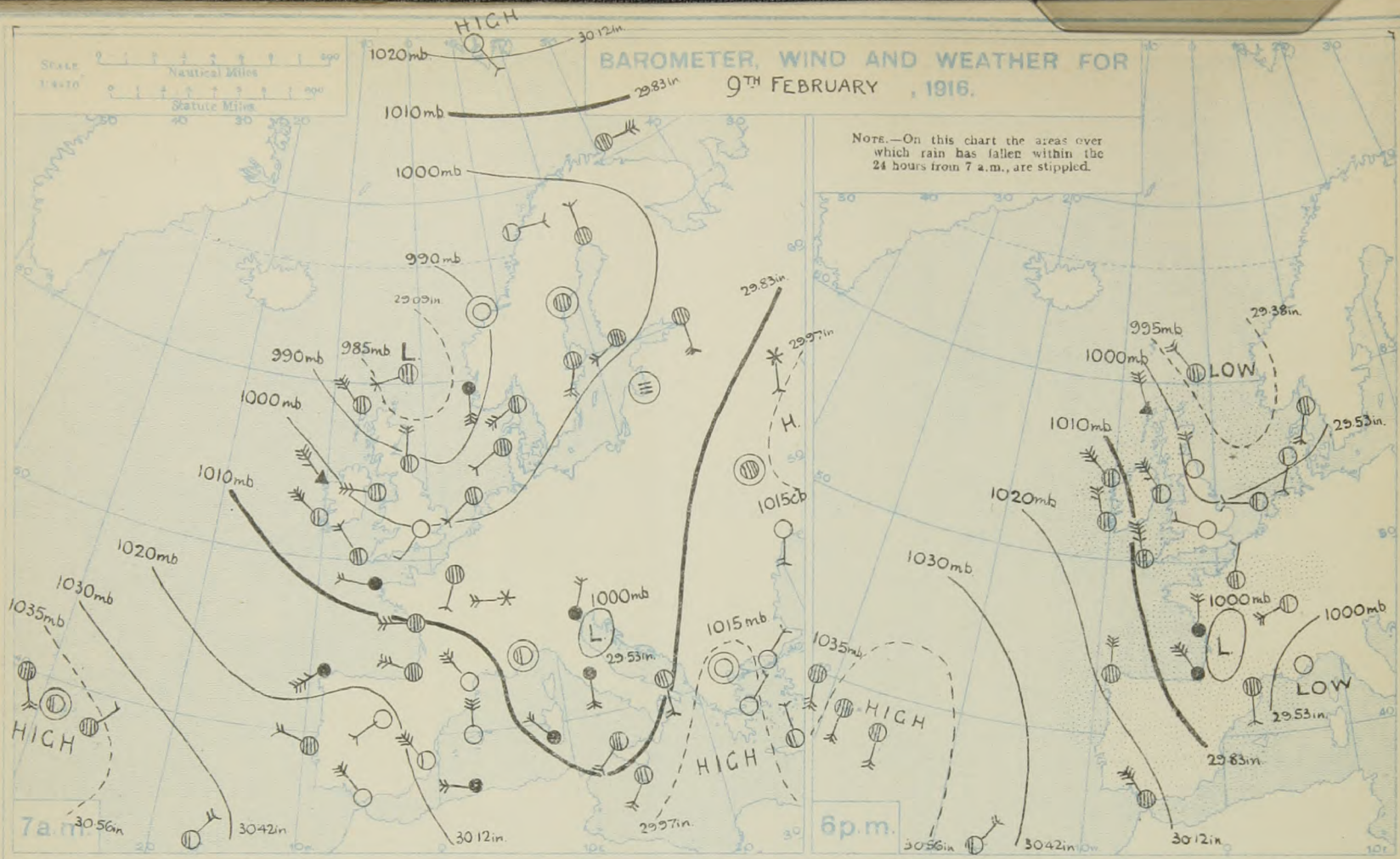
Scilly:- 9th.

11a.m. - noon & 10p.m. NNW.8.
Squalls force 9
3p.m. - 6p.m. NNW.8.

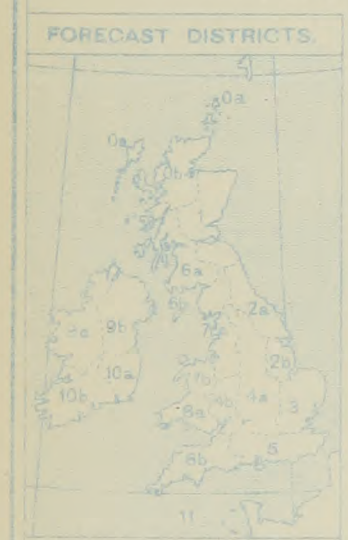
Aberdeen:- 9th.

2p.m. Gusts WNW.18 m.p.s.

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



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.



STORM WARNINGS.

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

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

No Warnings Issued.

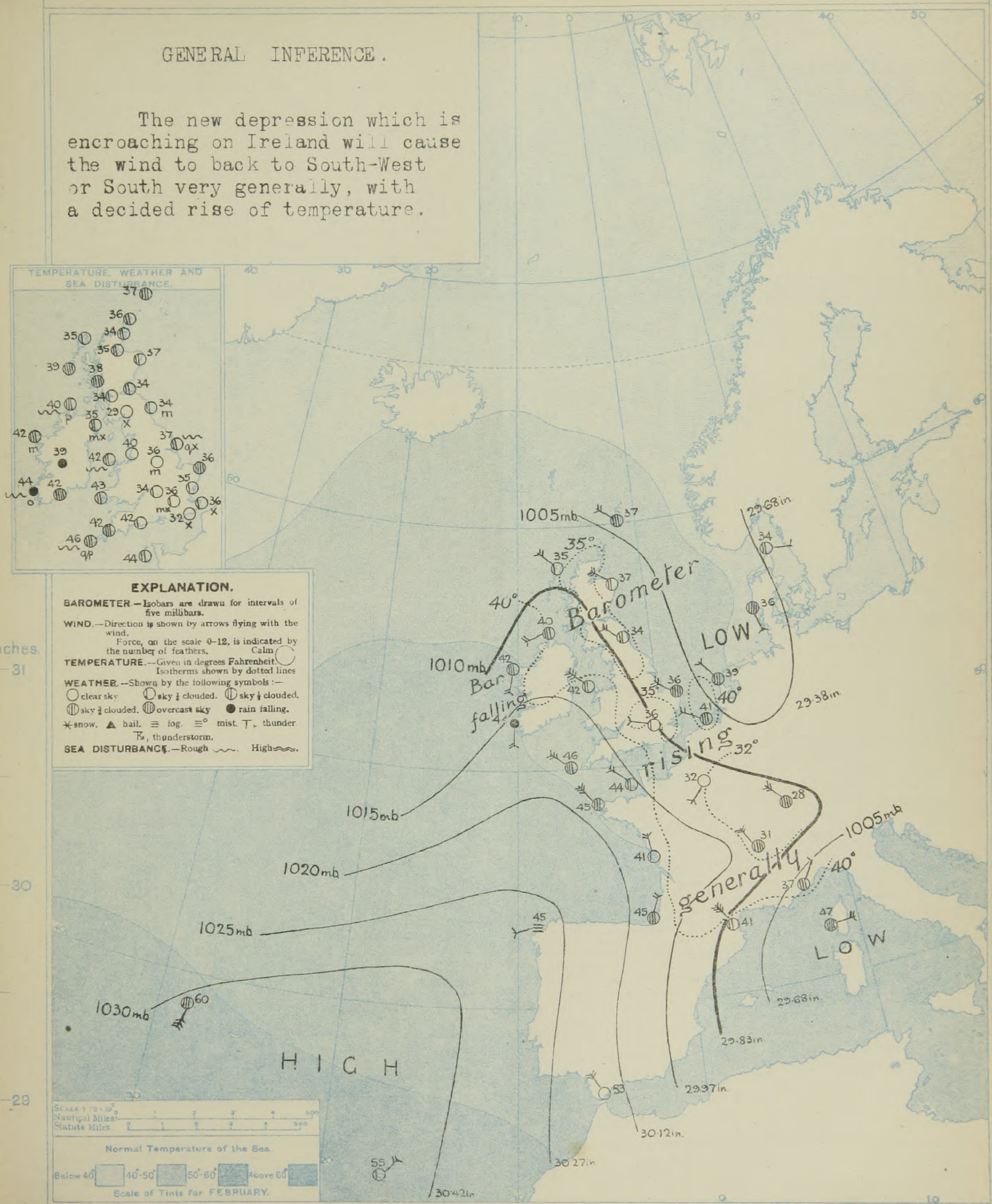
0 a, b; 1; 2 a, b; 3; 4 a, b; 5	Wind backing to South-West or South, light or moderate to fresh; fine, then some showers or rain with higher temperature.
6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b	Wind between West and South, light or moderate to fresh or strong; becoming showery or rainy, with a higher temperature.
Western Channel and Bay 11	Westerly to South-Westerly or Southerly winds, moderate to strong; sea rough; squally, showery.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 10TH FEBRUARY, 1916.



REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	8th at 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	9th at 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	991·5	30	SW	2	0	992·8	0	30	+5	SE	3	*	0	*	-	*	*
Helsingfors ...	998·1	34	SW	3	0	996·8	+2	34	0	SW	3	*	0	0	?	*	*
Hangö	997·3	34	WSW	4	0	996·3	+2	34	+2	WSW	3	*	0	0	-	*	*
Riga	1004·8	34	-	0	0	1006·2	+2	34	0	-	0	*	f	0	-	*	*
Petrograd	1002·3	34	SSW	3	0	1004·3	+2	34	-2	S	3	-	0	*	-	36	34
Moscow	1012·0	28	S	4	0	1012·3	0	27	-1	S	3	*	S	*	2	*	27
Kiev	1013·3	32	S	2	0	1014·3	+1	32	0	-	0	*	b	*	2	*	32
Kharkov	1019·4	28	SE	1	f	1018·0	0	30	+11	S	2	*	0	*	-	*	*
Kishinev	1015·7	37	W	2	0	1016·7	0	32	-2	-	0	*	0	*	-	*	30
Elisabetgrad ...	1016·4	32	S	2	0	1016·6	+1	32	+4	S	2	*	0	*	-	*	30
Nicolaiev	1016·7	32	SE	3	0	1018·4	*	32	+2	-	0	*	0	4	-	*	27
Odessa	1016·7	39	SSW	3	0	1016·7	0	37	.	SSW	3	*	b	0	-	*	37

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	2	44	35	p.bc	bc	2·9
	Banff	3	41	35	prs.bc	r.bc.c	2·3
	St. Andrews	–	43	33	*	*	5·7
Eng. N.E.	Harrogate	1	41	30	b	b	7·5
	Skegness	0·1	41	27	bc	bc.b	4·8
Eng. N.W.	Morecambe	–	44	36	bc.c	c.bc	4·3
	Blackpool						
	Southport	1	43	34	sh.o.c.b	bc.o.b	4·8
Midlands	Buxton	2	38	29	bc	bc	3·9
	Leamington Spa	–	41	28	b	b	5·1
	Malvern	–	41	30	bc	bc	4·4
	Ross-on-Wye	–	44	30	bcz	bc	7·3
Wales.	Rhyl	6	44	32	rshq	rshq	2·5
	Colwyn Bay	3	43	34	s.c	c	2·3
	Llandudno	4	45	35	s.cp.c	c	2·2
	Aberystwyth	2	41	35	r.o.c	c.o	1·5
	Tenby	5	42	35	bcs	bcp	4·3

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	–	43	29	bc	bc.b.bc	7·0
	Felixstowe	–	43	30	bcm	bm	8·0
	Walton-on-Naze	-	40	29	b.bz.bc	bc.b	7·8
	Southend-on-Sea	–	42	30	b.bcz	bc.bz	5·7
England, S.E.	Margate	–	41	30	b	b.bc.b	5·8
	Ramsgate	–	41	27	bc	bc	7·3
	Hastings	–	42	30	b	bc.b	7·3
	Eastbourne	0·3	44	30	b	bm	7·5
	Seaford	-	45	30	b	b	7·1
	Brighton	-	45	30	bmx.b	b	5·6
	Worthing	–	46	29	b	b	5·2
	Littlehampton	–	42	31	b	bc.o	4·7
	Bognor	0·3	42	29	bc	bc	4·9
	Southsea	–	41	31	bc	bc	4·5
	Bournemouth	·1	40	28	s.b	o.b	3·1
England, S.W.	Weymouth	1	40	34	z.bc.cp	c.bc.bz	2·2
	Torquay	12	40	33	o.cp	c.bc.b	2·8
	Paignton	11	42	33	o.hs.bc	hs.bc	3·2
	Penzance	11	46	36	cph.c	bcphr	2·4
	Newquay	*	44	35	cpq	c.oqhp	1·9
	Ilfracombe						
	Weston-super-Mare ...	0·3	41	30	b.bcs.c	bc.b	3·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 A.M. To-day)	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	65	84	3·6	42	33	26	-	b3	b3.c	b.bx
City (Bunhill Row)	*	*	4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	89	3·3	44	30	27	-	bc	bcu	bc.bmx
Camden Sq. (Brit. Rainfall)	73	85	3·7	43	32	27	Trace	bmb	b.bc	*
Hampstead (Reservoir) ...	*	82	4·9	39	30	20	-	b	b.bc	bmxb
Richmond Park ...	*	*								
Kew. (See front page)	*	*	6·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	74	84	4·2							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
497 Joules	1·45 Milliwatts.	3·7 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	1	44	33	30	bc	qsh.b	c.b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	11	40	33	30	ors	ors.bc	bcp	2·8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	43	30	19	b	bm.b	cusp.bm	*

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

10th & 11th February, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.22 / 7.20	12.7 / 12.7	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	4.31 / 4.34
Valencia	8.8 / 8.2	12.55 / 12.55	5.42 / 5.44

NOTES ON YESTERDAY'S WEATHER.

Showers of hail or snow were experienced in western and northern districts, and the temperature rose little above 40°, except in the west. Bright sunshine was very prevalent, especially in the east and south-east.

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

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

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 42

FRIDAY, 11th February.

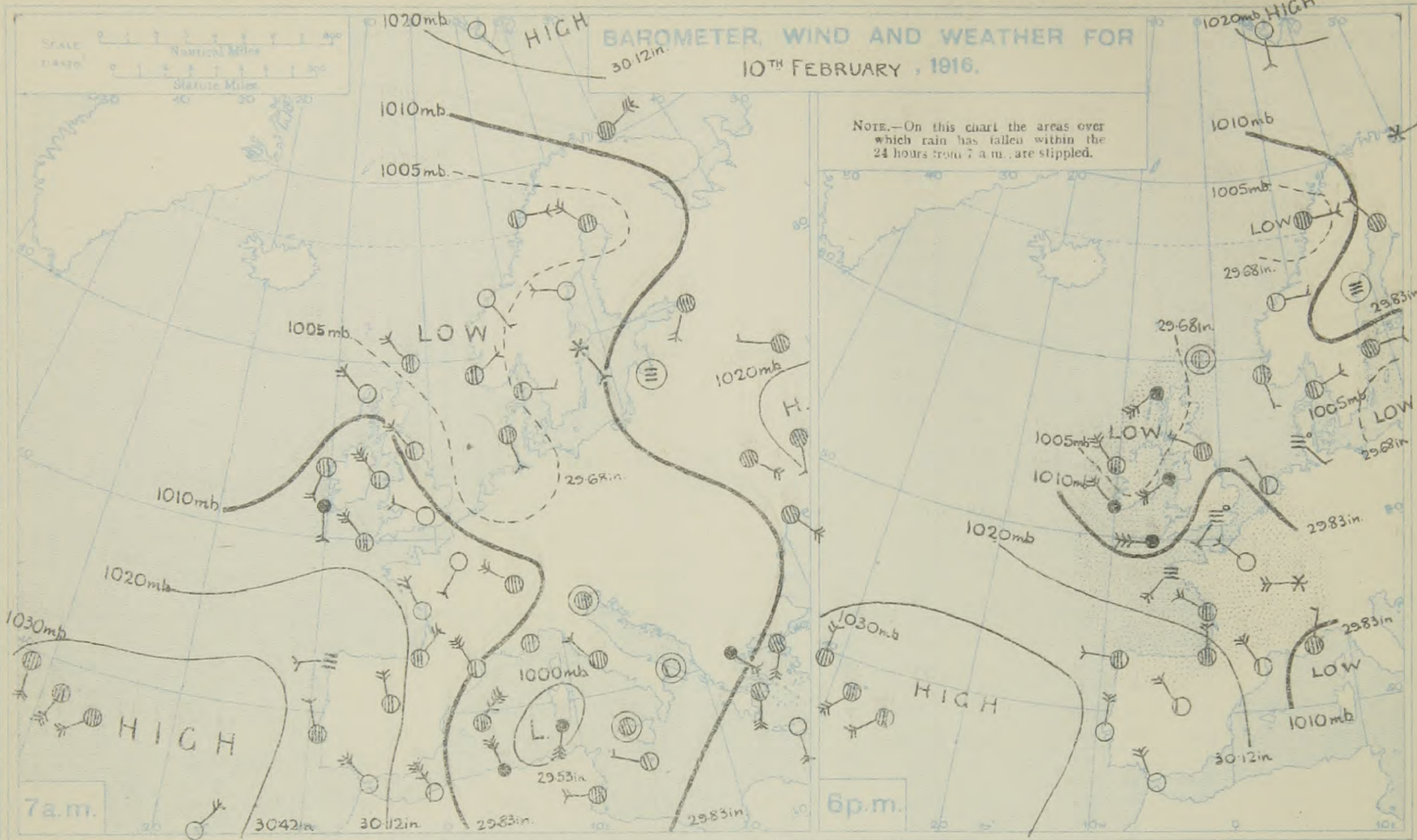
	STATIONS.	Yesterday Evening: Barom. Millibars at M.S.L.	Temp. °F	Wind: Direc.	Wind: Force 0-12.	Weather.	This Morning 7 A.M., G.M.T.: Barometer: Millibars at M.S.L.	Barometer: Change in 3 hours.	Temp.: Dry Bulb. °F.	Temp.: Change in 24 hours. °F.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 Hours: Rainfall. Millimetres.	Temp.: Max. °F.	Temp.: Min. °F.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS	Lerwick ...	1005.8	38	-	0	bcm	998.7	-1‡	40	+3	S	5	-	om	4	0.3	44	35	bc	bc	owq	*
	Deerness (Orkney)	1004.0	37	S	1	bc	994.2	*	38	+2	SW	3	-	o	4	3	41	37	bc.c	c.bc	bcqpo	3.5
	Stornoway ...	1001.1	41	SW	6	orq	996.4	+2	37	+2	NW	2	-	c	2	4	41	34	bo.g	orq	or.c	0.0
	Castlebay (Barra Isd.)	1001.3	41	SSE	6	r	998.7	0	41	+2	NW	2	NW	bc	3	3	44	37	o	or	r.op.bc	0.0
	Glasgow ...	1006.0	38	S	1	omd	998.2	-1	35	+1	SW	1	-	mz	*	2	39	33	bm.om	om	omdmz	0.0
	Eskdalemuir ...	1007.9	35	SSW	2	or	998.4	-2	33	+4	-	0		oms	*	4	38	27	gcx co	o	osd	2.4
	Malin Head ...	1001.2	39	SSW	6	omqd	999.1	-1	42	+2	NW	6	W	cq	7	4	44	36	omq	omqd	cq	0.0
	Blacksod Point	1004.3	44	NW	5	cm	1003.2	0	41	-1	WNW	6	NW	cmp	4	3	48	40	ofd	cm	cmph	*
	Valencia ...	1006.6	46	NW	4	r	1007.0	+3	42	-2	NW	4	NW	c	4	18	51	42	mdr	mdr	mr.o.c	0.0
	Roche's Point	1007.0	50	W	2	r	1004.8	*	40	-2	NNW	3	-	b	3	9	50	40	odf	fr.m	r.o.b	*
	Birr Castle ...	1004.5	44	S	1	r	1003.2	*	35	-4	W	1	-	bc	*	6	45	34	or	or.omw	or.bc	0.0
	Donaghadee ...	1005.7	39	S	3	ogm	999.0	0	40	+5	W	4	-	ogm	3	1	42	34	ogmp	ogmp	omr.og	*
	Liverpool (Bidston)	1009.3	40	S	2	o	996.8	-2	38	-2	SE	1	-	r	1	6	43	38	bc	op	or	2.3
	Holyhead ...	1008.0	41	SW	5	orm	998.1	0	41	-1	N	6	-	opd	5	17	44	41	c.o	o.orm	orm	0.0
	Pembroke (St. Ann's)	1008.5	43	SW	4	or	998.7	+1	43	0	NW	5	NW	cq	4	16	46	41	c.o	or	fr cq	0.0
	Scilly (St. Mary's)	1009.8	50	W	6	orm	1001.4	+1	45	-1	NNW	6	N	oqp	6	16	50	42	c.omp	omr	omrc.o	0.7
	Falmouth ...	1009.7	46	SSE	3	or	999.5	0	43	+1	NNW	4	-	bc	*	29	49	40	c.bc.e	or	rq.e	0.7
	Jersey (St. Aubin)	1015.9	45	W	2	oq	997.1	*	48	+4	S	4	-	ogd	3	21	49	44	bc	co	ogr.od	4.2
	Portland Bill ...	1014.0	46	SW	3	or	994.3	-9	48	+6	WSW	3	-	or	4	17	48	42	bc.c	co	or.c	*
	Dungeness ...	1012.8	37	NNW	2	bc	999.1	-10	41	+9	SSE	7	-	oqr	5	3	45		bc.co	g.c.bc	bcqqr	*
	Dover	1013.8	36	W	1	b	998.8	-7	38	+2	SSE	5	S	r	6	1	45	35	x.b	bz	bz.c.or	8.0
	Wick	1004.8	37	SW	1	bc	995.0	-3	38	+4	S	1	-	o	3	0.3	40	33	bc	bc	pd.om	*
	Nairn	1003.4	35	W	1	og	996.0	*	39	+4	W	1	-	og	2	0.3	39	33	bc	cgo	og	0.0
	Aberdeen ...	1005.7	38	SSW	2	cm	997.4	-2	38	+1	SSW	3	-	orm	2	1	43	35	bc.b	bc.o.cm	bc.orm	4.9
	Leith	1005.6	38	SW	1	o	997.5	-2	37	+3	W	1	-	r	1	T	39	33	bc.o	o	og.or	*
	Tynemouth ...	1008.4	39	WNW	1	of	998.0	-4	37	+3	SSW	2	-	of	3	-	43	33	bcm	bcm	bc.f	*
	Spurn Head ...	1011.1	42	NNW	1	cm	998.5	-2	37	0	S	5	-	om	4	-	42	36	b	bc	bc	6.1
	Yarmouth ...	1014.4	37	NW	2	b	1000.8	-10	40	+4	S	4	-	bq	3	1	44	34	cp.bm	bm	o.bcp	4.2
	Clacton-on-Sea	1012.4	39	WNW	2	bc	999.7	-9	40	+5	S	5	S	o	4	-	44	34	b	b.bc	bc.c.og	7.3
	Nottingham ...	1010.7	40	SSW	1	c	997.3	*	38	+2	E	2	E	omz	*	-	45	35	bm	bm.c	c.om	1.3
	Benson (Oxon.) ...	1012.0	40	SW	1	o	994.5	-7	39	+5	SE	4	-	r	*	4	43	34	b	bc	r.o	*
	Sth Farnborough	1012.7	40	SSW	2	o	994.8	-9	41	+5	SE	3	-	or	*	6	45	35	bc	bco	or	5.8
	London (Kew Obsy.)	1012.5	40	SW	2	m	995.8	-8	40	+4	ESE	3	-	orm	*	2	44	35	bmx.omx.c	c.bc.bm	b.om.orm	5.5
NORTHERN EUROPE.	Spitsbergen ...	1020.7	-29	S	2	b	1018.4	-0	-4	+18	S	2	*	b	*	*	-4	-35				
	Vardö	1013.9	19	E	5	s	1014.1	0	18	+2	SSE	5	-	o	4	*	19	14				
	Bodö	1002.9	28	E	2	o	1006.9	0	27	-1	E	4	NW	c	2	-	28	27				
	Christiansund	1006.1	30	E	1	b	1007.4	0	30	+2	-	0	-	b	4	-	34	28				
	Skudesnaes ..	1007.1	37	SSE	1	o	1004.3	-2	36	-1	SE	4	-	o	4	TRACE	39	36				
	Færder (Christiania Fjord)	1009.6	32	NE	1	o	1009.3	0	28	-4	NNE	4	-	o	1	-	34	28				
	The Scaw (Skagen)	1009.2	34	ENE	2	c	1008.8	0	32	-2	NNE	2	-	c	0	-	37	28				
	Blaavands Huk	1009.1	32	SE	1	m	1012.4	0	34	-2	SSW	2	-	o	3	-	36	30				
	Haparanda ..	1011.4	14	NW	2	o	1014.7	0	12	0	S	2	-	o	*	-	14	12				
	Hernösand ...	1011.0	14	-	0	f	1013.5	0	14	-9	N	2	-	o	*	-	16	3				
	Stockholm ...	1008.4	32	E	2	o	1005.5	-1	30	-2	N	4	-	o	*	TRACE	34	28				
	Wisby	1004.0	32	NE	4	o	1002.0	0	32	0	NNE	4	-	s	*	2	34	30				
	Karlstad	1008.8	30	-	0	o	1009.1	0	27	-3	NNW	2	-	o	*	-	36	23				
FRANCE, &c.	The Helder ...	1009.3	41	NW	1	bc	1005.2	-4	32	-7	SSE	2	-	c	1	1	45	32				
	C. Gris Nez ...	1013.3	43	WNW	3	b	999.8	-1	36	-2	?	5	*	r	2	3	46	36				
	La Hève	1015.5	43	NW	2	c	999.8	*	43	+4	SSW	5	*	r	4	14	43	39				
	Brest (St. Mathieu)	1016.0	46	SW	4	f	1000.0	-5	48	+3	N	4	*	c	4	2	50	45				
	Rochefort (Ile d'Aix)	1019.9	46	NW	3	c	1007.4	-5	50	+9	WSW	5	*	o	*	8	50	41				
	Biarritz	1022.0	46	N	3	o	1014.6	-5	50	+5	SSW	3	*	o	4	7	52	43				
	Paris	1015.9	37	WNW	2	b	1005.1	-8	34	+2	SSE	3	-	r	*	3	45	30				
	Belfort	1017.7	30	W	4	s	1014.6	*	30	+2	-	0	*	o	*	1	34	28				
	Lyons	1019.7	31	SE	1	s	1015.5	*	31	0	S	1	*	o	*	2	39	28				
	Nice	1009.5	43	NE	1	o	1012.6	-5	34	-3	*	0	*	b	1	TRACE	54	34				
	Perpignan ..	1018.1	43	NW	4	b	1015.3	-3	41	0	-	0	W	o	*	-	45	37				
	Sanguinaire ..	*	45	E	3	o	*	*	45	-2	N	4	*	b	4	-	50	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1027.8	54	W	2	c	1017.3	-5	54	+9	NW	7	-	c	5	9	54	45				
	Madrid (8 a.m.)	1024.4	46	NW	3	b	1022.9	-2	36	-3	WNW	1	NW	o	*	-	48	34				
	Lisbon (9 a.m.)	1028.0	52	N	4	b	1026.5	-1	52	0	SSE	1	-	o	?	-	55	50				
	Gibraltar	1026.1	51	NW	4	b	1025.4	*	48	-5	NW	4	*	b	2	-	62	47				
	Malta (8 a.m.) ...	*	*	*	*	*	1000.6	+1	50	+2	ESE	1	-	o	1	10	55	46				
	Azores (Horta, 8 a.m.)	1032.4	*	SSW	5	o	1035.5	0	55	-5	NNE	4	*	o	3	1	61	54				
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		9 P.M., 8 P.M. G.M.T.					10 P.M., 7 A.M. G.M.T.															
ITALY.	Venice	997.2	41	-	0	c	1002.8	+7	39	0	-	0	*	o	2	7	*	*				
	Turin	996.7	39	-	0	b	1004.3	-6	32	-7	-	0	*	b	*	-	*	*				
	Florence	997.2	41	E	2	o	1002.8	+3	41	-2	-	0	*	o	*	2	*	*				
	Pesaro	997.4	43	-	0	r	1002.9	+8	41	-4	SW	3	*	b	3	10	*	*				
	Leghorn	997.9	50	W	3	c	1003.6	+5	?	?	NE	3	*	bc	4	2	*	*				
	Rome	?	46	SSW	5	b	1004.3	+4	41	-11	NW	2	*	o	*	10	*	*				
	Brindisi	1004.3	50	WSW	3	o	1006.0	0	46	-2	-	0	*	b	3	-	*	*				
	Cagliari	1005.7	52	W	6	bc	999.7	-13	46	-2	SSW	6	*	r	0	4	*	*				
	Palermo	1008.1	48	SW	2	r	1006.9	?	45	-10	-	0	*	c	2	4	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

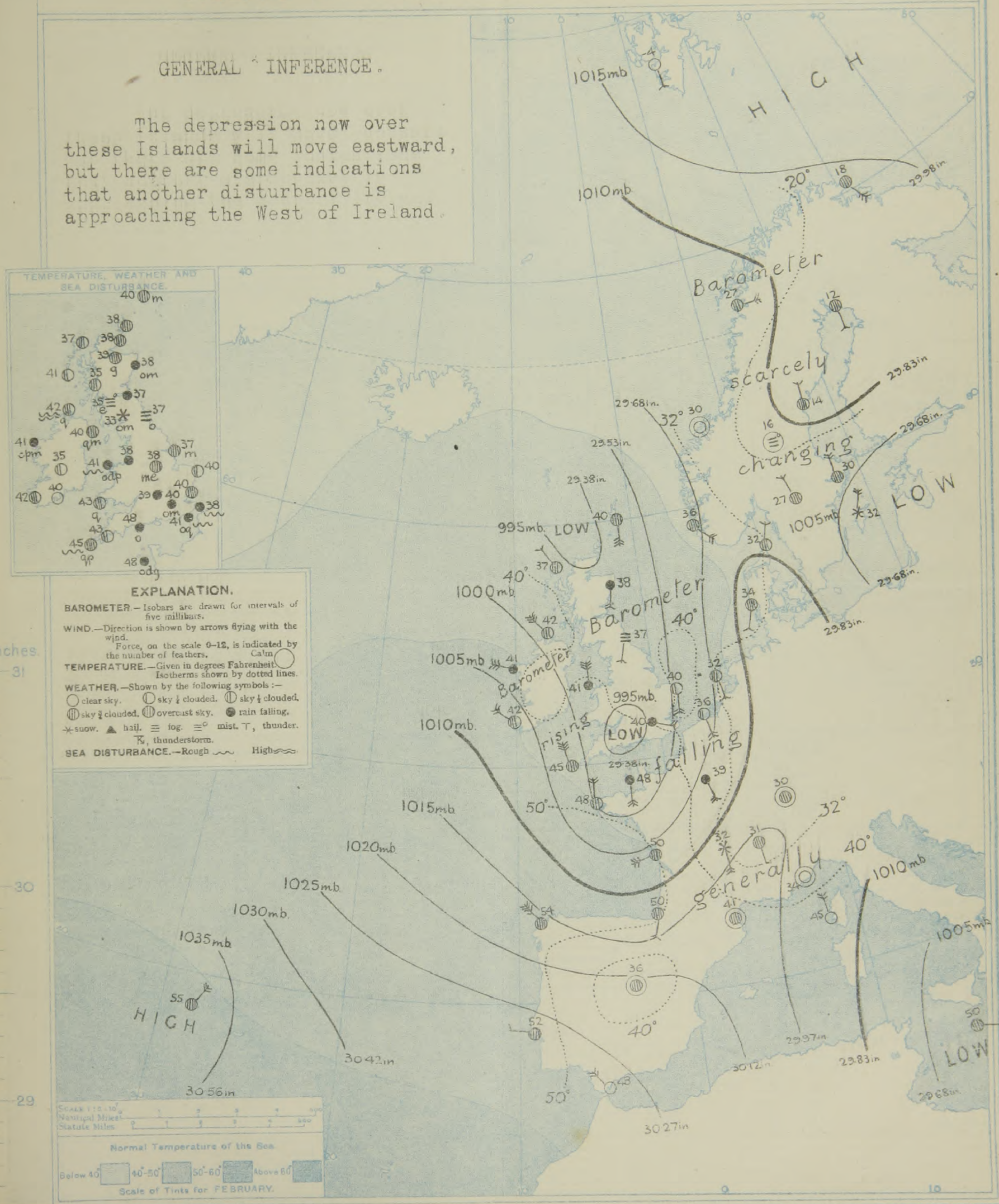
No Warnings Issued.

0 a, b; 1; 2 a, b	Wind shifting to between West and North generally, light to fresh; changeable, rain, sleet or snow; temperature rather low.
3; 4 a, b; 5	Wind shifting to between West and North, light or moderate to fresh, rainy to showery; moderate temperature.
6 a, b	Same as Nos. 0 to 2.
7 a, b; 8 a, b; 9 a, b; 10 a, b	Wind between North-West and West, fresh or strong to moderate; changeable, some hail or rain showers; moderately low temperature.
Western Channel and Bay 11	Northerly to North-Westerly winds, strong to moderate; sea rather rough; some showers.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 11TH FEBRUARY, 1916.



Issue No. 19804.

DAILY WEATHER REPORT.

Friday, 11th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	-	-	.	-	*	-	-	-	*	-
Uleaborg	997.3	28	SW	2	c	1002.6	+3	21	-9	W	2	*	0	*	?	*	*
Helsingfors ...	1006.6	34	SW	3	5	1010.3	+2	34	0	SW	3	*	0	0	Trace	*	*
Hangö	1006.2	32	SSW	3	b	1010.0	+2	34	0	SSW	2	*	0	0	-	*	*
Riga	1011.0	34	-	0	f	1012.2	+1	30	-4	-	0	*	f	0	-	*	*
Petrograd	1009.0	32	SSW	1	0	1012.7	+2	30	-4	SW	2	-	0	*	-	37	30
Moscow	1012.7	30	SW	1	0	1018.2	+3	28	+1	NW	1	*	0	*	4	*	28
Kiev	1015.8	32	SE	3	0	1012.8	-2	32	0	SE	4	*	0	*	-	*	32
Kharkov	1020.6	32	SSW	2	0	1022.2	+1	27	-3	SSW	1	*	0	*	-	*	*
Kishinev	1014.9	36	SSE	4	bc	1008.2	-4	37	+5	SE	4	*	b	*	-	*	30
Elisabetgrad ...	1017.6	34	SE	2	0	1015.8	-2	30	-2	SE	4	*	f	*	1	*	27
Nicolaiev	1017.1	34	S	2	b	1015.8	*	32	0	SE	6	*	0	0	-	*	30
Odessa	1016.8	36	SE	3	b	1011.8	+4	37	0	SE	4	*	0	0	-	*	36

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	2	41	35	o	o	0.0
	Banff	0.4	42	34	bc	c.bc	4.2
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	42	31	b	bc.c.o	5.3
	Skegness	0.1	44	32	b.bc	bc.z	6.7
Eng. N.W.	Morecambe	-	44	37	bc.c	c.o	2.2
	Blackpool						
	Southport	-	44	39	b.bc.o	o	2.5
Midlands	Buxton	-	37	32	bc	c	2.6
	Leamington Spa	-	44	32	cm	cm	1.1
	Malvern	-	43	36	bc.c	c.o	3.1
	Ross-on-Wye	-	47	33	b.bc	om	2.6
Wales.	Rhyl	0.1	43	32	.	-	0.7
	Colwyn Bay	-	43	39	bc	bc	1.3
	Llandudno	1	43	40	c	c	0.5
	Aberystwyth	2	45	35	r.o.c	o.or	0.0
	Tenby	2	46	33	bc	bc.c.or	0.3
England, E.	Lowestoft	1	45	30	cps.bc	bc.c.bc	4.6
	Felixstowe	-	45	30	b	bm	7.3
	Walton-on-Naze	-	44	33	bbz.bc	bc.b	7.5
	Southend-on-Sea	-	45	31	b	b	7.5
England, S.E.	Margate	-	44	34	b	b	7.6
	Ramsgate	-	48	31	bc	bc	8.0
	Hastings	-	45	32	b	b.bc	8.0
	Eastbourne	-	46	31	b	bz	7.5
	Seaford	-	47	34	b	b	7.1
	Brighton	-	46	31	bx.bbc	bc.b	6.4
	Worthing	-	46	32	b	b	6.6
	Littlehampton	-	45	39	b	b.bc	6.8
	Bognor	-	46	33	bc	bc	6.2
	Southsea	-	45	35	b	b	6.2
	Bournemouth	-	45	32	b.bc	c.o	4.1
England, S.W.	Weymouth	-	46	34	bc.c	c.or	2.3
	Torquay	1	45	35	b.bc.c	c.o	1.6
	Paignton	0.3	47	34	c	op	2.0
	Penzance	9	50	38	bc.c	or	1.5
	Newquay	*	47	39	bc	or	1.4
	Ilfracombe	2	45	39	o	or	0.0
	Weston-super-Mare ...	-	45	34	b.bc	c.o	1.2

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F	Temperature. In Screen. Min. °F	Temperature. Min. on Grass. °F	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.) ...	64	94	3.1	44	37	30	4	c	oz	z.or
City (Bunhill Row)	*	*	3.4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	54	94	4.0	46	36	30	5	bc.b	bc	bc.odr
Camden Sq. (Brit. Rainfall)	65	94	5.2	46	37	31	4	bbz	bz	*
Hampstead (Reservoir) ...	*	96	6.3	44	36	30	4	b	bc	oom
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	5.5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	66	93	4.4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
500 Joules	145 Milliwatts.	33 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	2	42	33	29	bx.c	oug	r.o	*
Darwen to 9 p.m.	0.2	42	33	26	bc.f	bc	bcoud	2.7
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	46	34	22	b	omocb	bcbbc	*

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

11th & 12th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth ...	7.20 / 7.18	12.7 / 12.7	4.54 / 4.56
Greenwich ...	7.24 / 7.22	12.14 / 12.14	5.14 / 5.6
Wick	7.37 / 7.34	12.26 / 12.26	4.54 / 4.57
Valencia	8.6 / 8.4	12.55 / 12.55	5.44 / 5.46

NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally, as much as 29 mm. at Falmouth and 21 mm. at Jersey. Bright sunshine was very prevalent in the south-east and east. Temperature failed to reach 45° over a large portion of the Kingdom.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 43. (12th February.

	STATIONS.	Yesterday Evening: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0-12.	Weather.	This Morning 7 A.M., G.M.T.: Barometer: Millibars at M.S.L.	Barometer: Change in 3 hours.	Temp.: Dry Bulb.	Temp.: Change in 24 hours.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Past 24 Hours: Rainfall. Millimetres.	Temp.: Max.	Temp.: Min.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1000·2	39	NNW	3	bc	1006·4	+1	39	−1	SSW	3	SW	bc	3	6	41	35	omr	bc	bc	*
	Deerness (Orkney)	1002·4	36	NW	1	bcp	1006·1	*	38	0	SSW	5	-	oz	4	3	42	34	o.c	cp.bc	bc.c.o	1·8
	Stornoway ...	1004·6	35	WNW	2	b	1002·8	−4	44	+7	SW	6	-	cpq	5	2	43	35	c.bcp	bc.b	bc cpq	4·6
	Castlebay (Barra Isd.)	1006·7	41	W	3	b	1006·8	−2	46	+5	SW	5	-	op	5	1	46	38	bc	c.b	p.bcop	3.5
	Glasgow ...	1006·7	37	WNW	1	b	1013·9	+2	36	+1	SSW	2	W	bc	*	Trace	43	32	m.ozbc	b	bz.bx	4·4
	Eskdalemuir ...	1006·4	35	NNW	3	b	1016·5	+3	29	−4	SSE	1	-	bx	*	2	39	27	oms.o	oz.c.bc	b.bc.c	1·1
	Malin Head ...	1007·6	42	NW	7	cg	1010·2	−2	40	−2	SSW	5	-	ogq	6	0·4	43	38	cg	cg	cqp	4·5
	Blacksod Point	1013·3	40	NW	6	bc	1012·0	−2	47	+6	SW	5	-	omd	4	4	47	36	bcqmph	bcqph	bc.omd	*
	Valencia ...	1017·6	43	NW	5	b	1019·4	0	48	+6	SW	4	-	o	4	3	48	38	cqh	bcqh	bc.c.o	4·4
	Roche's Point	1015·1	41	NNW	3	b	1021·3	*	42	+2	S	1	-	o	2	1	45	38	bcpq.b	bcqp.b	b.o	*
	Birr Castle ...	1013·1	38	WNW	2	bc	1017·6	*	40	+5	S	1	-	o	*	-	44	33	o	bc	c.o	7·2
	Donaghadee ...	1008·0	40	NW	5	bcm	1015·4	+1	33	−7	SW	3	SW	cmx	2	0·2	44	33	bcmp	bcmp	bcmx	*
	Liverpool (Bidston)	1005·3	42	WNW	4	bc	1018·0	+3	39	+1	W	2	-	b	2	8	42	36	or	o.c.b	bx	0·6
	Holyhead ...	1007·6	43	NNW	7	cq	1018·4	+2	40	−1	W	4	-	b	4	1	45	39	p.oc.bc	bc.cp.c	c.bc.b	4·3
	Pembroke (St. Ann's)	1009·2	42	NNW	5	bcq	1020·9	+3	43	0	NNW	3	N	b	3	-	44	40	bq.bcq	bcq	bq	4·7
	Scilly (St. Mary's)	1012·0	44	NW	8	cq	1022·2	+3	45	0	NW	5	NW	c	6	1	47	42	cq.bcq	cqph	bcq.c	6·1
	Falmouth ...	1009·3	44	NNW	6	bq	1023·0	+5	40	−3	NNW	3	-	bc	*	1	46	39	bcq	bcqcp	bc	4·0
	Jersey (St. Aubin)	1003·2	46	NW	5	c	1020·4	*	43	−5	WNW	4	-	b	3	1	49	43	ogdog	og.c.oc	bc.b	0·1
	Portland Bill ...	1003·4	44	NW	6	b	1019·8	+8	41	−6	NW	5	NW	b	4	-	46	40	r.c.bc	c.bc	b	*
	Dungeness ...	995·1	?	NW	4	c	1013·8	+9	38	−3	NNW	4	-	o	3	15	46	37	ogr	omr.bc	orq.o	*
	Dover	994·0	38	WNW	6	o	1014·4	+9	39	+1	NW	6	NW	o	4	8	43	36	opr	opr	o	0·0
	Wick	1003·2	35	WNW	2	bc	1007·2	−2	36	−2	SSW	3	-	bc	1	1	41	32	ombc	bc	bc	*
	Nairn	1004·7	36	W	1	bc	1008·0	*	38	−1	WSW	3	-	bc	2	0·3	43	32	obc	bc	bcx	2·9
	Aberdeen ...	1004·7	37	WNW	3	b	1011·3	+1	33	−5	SW	2	-	b	2	0·1	42	30	ormo	o.c.b	bx	0·0
	Leith	1004·9	40	W	1	c	1012·8	+2	37	0	SW	2	SW	bc	2	1	41	33	r.o.bc	c.bc	cbcb	*
	Tynemouth ...	1002·6	39	NNW	3	orm	1015·2	+5	34	−3	WNW	2	-	b	3	9	39	32	fr	fr	bm	*
	Spurn Head ...	991·7	36	E	3	r	1015·7	+7	37	0	NW	5	-	cq	5	10	41	35	m.or	or	or	0·0
	Yarmouth ...	996·9	40	SE	7	r	1015·2	+8	40	0	NNE	4	-	bcm	4	16	41	38	bc or	orq	or	0·0
	Clacton-on-Sea	995·1	41	NW	4	o	1014·0	+9	38	−2	NW	3	N	bc	2	7	43	36	ogr	ogr og	ogc.bc	0·0
	Nottingham ...	1001·6	36	N	4	r	1017·2	*	33	−5	W	1	-	bm	*	11	39	32	rsm	rm	rso	0·0
	Benson (Oxon.) ...	1000·8	38	NNW	6	o	1018·6	+7	33	−6	NNW	1	-	b	*	5	40	31	c	o	o.b	*
	Sth Farnborough	1000·0	39	NW	4	o	1017·2	+7	36	−5	NW	3	-	b	*	4	43	35	rgo	o	o.b	0·0
	London (Kew Obsy.)	999·9	39	NNW	4	o	1017·5	+9	38	−2	NNW	3	N	bc	*	6	43	37	omrg.od	od.o	od o.bc	0·0
NORTHERN EUROPE.	Spitsbergen ...	1014·4	−11	S	2	m	1009·6	−3	7	+11	-	0	*	o	*	*	7	−19				
	Vardö	1012·0	19	SE	3	s	1011·3	0	18	0	SE	1	-	o	2	*	19	14				
	Bodö	1008·7	24	E	4	b	1007·5	−3	23	−4	E	2	-	b	2	-	30	19				
	Christiansund	1007·1	34	-	0	b	1007·1	+1	39	+9	-	0	-	o	3	-	39	28				
	Skudesnaes ..	1008·6	36	SE	6	o	1013·2	+3	34	−2	SE	8	-	o	4	-	37	32				
	Færder (Christiania Fjord)	1012·8	28	NE	2	c	1017·5	+2	27	−1	-	0	-	o	0	-	30	27				
	The Skaw (Skagen)	1011·5	30	ENE	2	c	1017·9	+2	32	0	SE	1	-	c	0	-	34	28				
	Blaavands Huk	1009·5	30	SSE	2	o	1015·7	+5	28	−6	ESE	2	-	o	2	-	36	25				
	Haparanda ...	1014·7	12	S	2	o	1013·6	−1	18	+6	WSW	2	-	o	*	Trace	18	12				
	Hernösand ..	1014·4	14	N	2	o	1017·1	0	14	0	NW	2	-	o	*	-	14	12				
	Stockholm ...	1009·6	28	N	4	o	1017·2	+4	25	−5	N	2	-	o	*	TRACE	32	23				
	Wisby	1007·3	30	NNE	6	o	1016·8	+5	28	−4	N	4	-	o	*	2	32	28				
	Karlstad	1012·6	25	-	0	bc	1018·1	+4	23	−4	-	0	-	c	*	-	30	18				
FRANCE, &c.	The Helder ...	1001·3	39	ESE	4	o	1012·8	+8	36	+4	NE	3	-	o	3	1	39	32				
	C. Gris Nez ...	995·4	41	?	6	r	1012·0	+9	41	+5	N	6	*	o	6	4	45	36				
	La Hève	1003·3	42	NW	6	o	1016·4	*	42	−1	NNW	5	*	o	7	3	45	37				
	Brest (St. Mathieu)	1009·7	47	NNW	7	c	1024·2	+6	46	−2	N	5	*	b	4	Trace	50	32				
	Rochefort (Ile d'Aix)	1006·3	46	NNW	7	r	1019·5	+7	45	−5	NNW	6	*	b	*	13	54	43				
	Biarritz	1010·3	47	NW	6	r	1022·1	+6	46	−4	ENE	3	*	r	5	9	52	43				
	Paris	998·3	45	WNW	3	o	1013·1	+8	41	+7	NW	3	-	o	*	12	45	34				
	Belfort	1005·7	32	W	2	s	1011·4	*	34	+4	W	4	*	r	*	8	34	30				
	Lyons	1006·4	37	SSW	4	r	1015·7	*	39	+8	NW	3	*	o	*	1	41	30				
	Nice	1009·5	37	E	3	o	1011·3	+4	39	+5	E	2	*	c	3	-	48	34				
	Perpignan ..	1008·0	46	-	0	o	1016·6	+6	45	+4	NW	4	N	o	*	-	54	41				
	Sanguinaire ...	*	48	N	4	c	*	*	48	+3	E	4	*	r	4	-	54	43				
SOUTHERN EUROPE.	Corunna (7 a.m.)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
	Madrid (8 a.m.)	1029·1	41	WNW	4	o	1026·6	+5	37	+1	NNW	5	-	b	*	2	46	32				
	Lisbon (9 a.m.)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
	Gibraltar	1021·3	54	W	4	c	1025·7	*	46	−2	NW	4	*	b	4	1	56	45				
	Malta (8 a.m.) ...	*	*	*	*	*	1012·8	+3	50	0	NW	3	-	bc	2	2	55	48				
	Azores (Horta, 8 a.m.)	1035·3	*	SSE	4	o	1035·1	0	55	0	-	0	*	c	1	-	63	55				
	Madeira (Funchal)	1029·0	63	NE	3	c	1029·7	0	57	+2	NE	3	-	c	3	-	64	55				
YESTERDAY'S REPORTS		....10th..., 8 P.M. G.M.T.					.....11th....., 7 A.M. G.M.T.															
ITALY.	Venice	1011·3	37	NNE	3	b	1012·3	0	37	−2	NNW	3	*	b	3	-	*	*				
	Turin	1012·2	41	-	0	b	1013·6	0	32	0	-	0	*	b	*	-	*	*				
	Florence	1008·6	43	-	0	o	1009·5	0	41	0	NE	3	*	b	*	-	*	*				
	Pesaro	1010·0	41	WSW	4	o	1010·2	0	36	−5	WSW	5	*	r	5	10	*	*				
	Leghorn	1009·5	45	-	0	b	1011·3	0	39	?	-	0	*	b	3	-	*	*				
	Rome	1006·4	46	N	3	o	1005·9	0	41	0	N	4	*	o	*	1	*	*				
	Brindisi	1004·0	54	NNE	3	fr	1001·0	0	50	+4	NW	6	*	o	5	-	*	*				
	Cagliari	1003·1	50	SSW	4	o	1010·4	0	43	−3	NW	4	*	b	3	33	*	*				
	Palermo	1003·7	45	ESE	3	f	1003·3	0	41	−4	-	0	*	b	3	1	*	*				

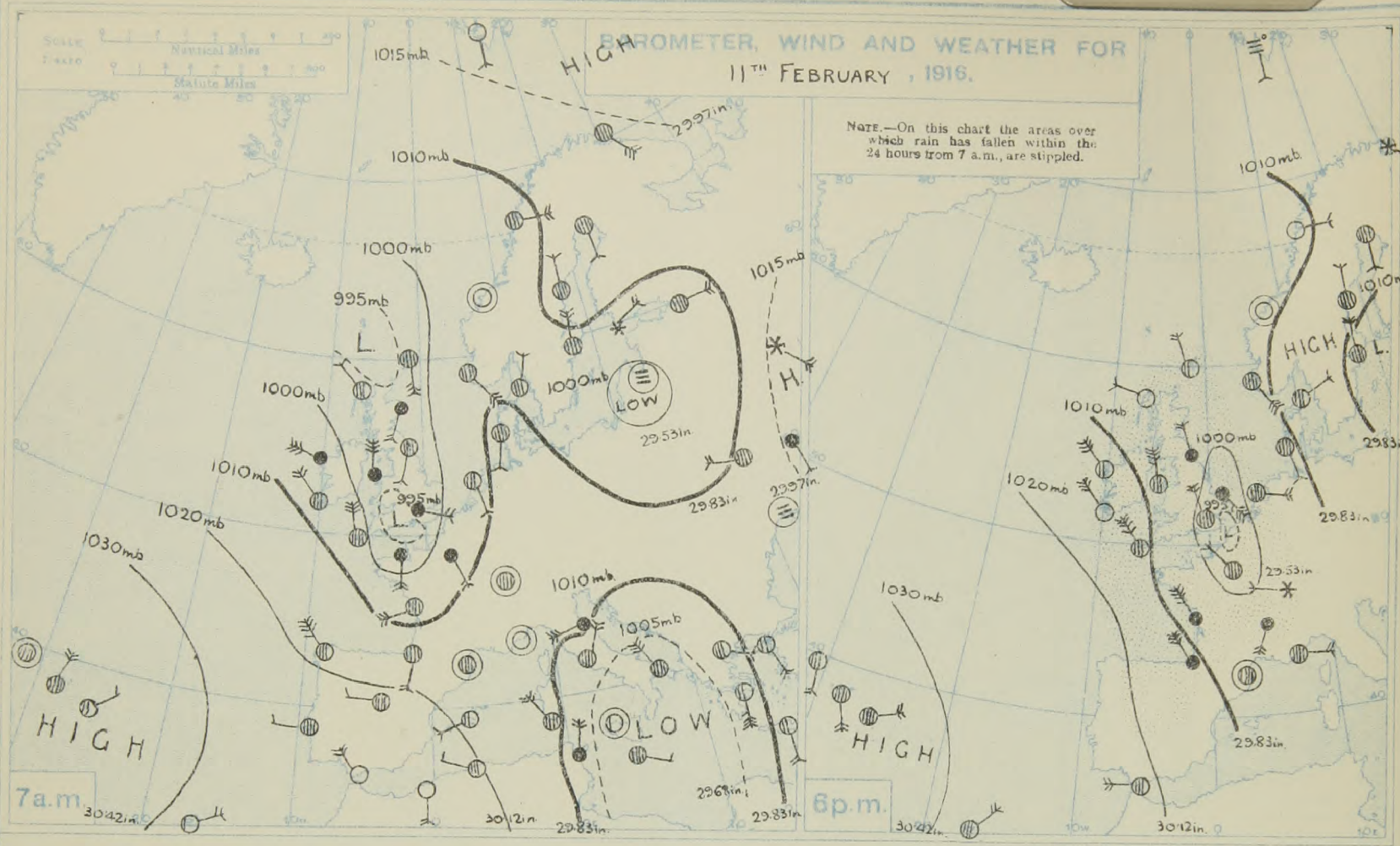
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.26 a.m.

Wind at 2,000 m. N. 40 m.p.h.
Wind at 500 m. NNW 45 m.p.h.

GALES
Duration and Extreme Force in British Islands.

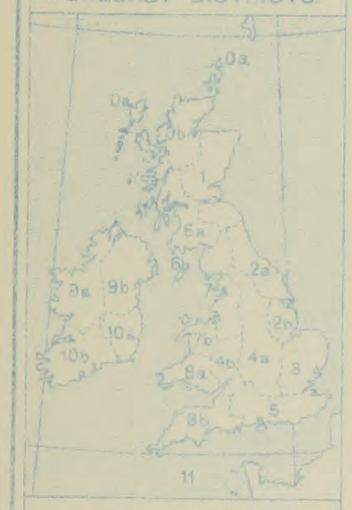
Scilly (St. Mary's): 11th.
1 p.m. – 6 p.m. NW. 8.
Dover: 11th – 12th.
11 p.m. – 2 a.m. NW. 8.

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



0 a, b; 1	Southerly and South-Westerly winds, moderate to strong or high; becoming rainy or showery; milder.
2 a, b; 3; 4 a, b; 5	Wind backing to West or South-West, light or moderate; fair to-day, some rain or showers to-morrow; milder.
6 a, b; 7 a, b	Same as Nos. 0 and 1.
8 a, b	Same as Nos. 2 to 5.
9 a, b; 10 a, b	Same as Nos. 0 and 1.
Western Channel and Bay 11	Wind backing to the South-Westward, light to fresh; sea rather rough; fair, then some rain.

STORM WARNINGS.

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

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

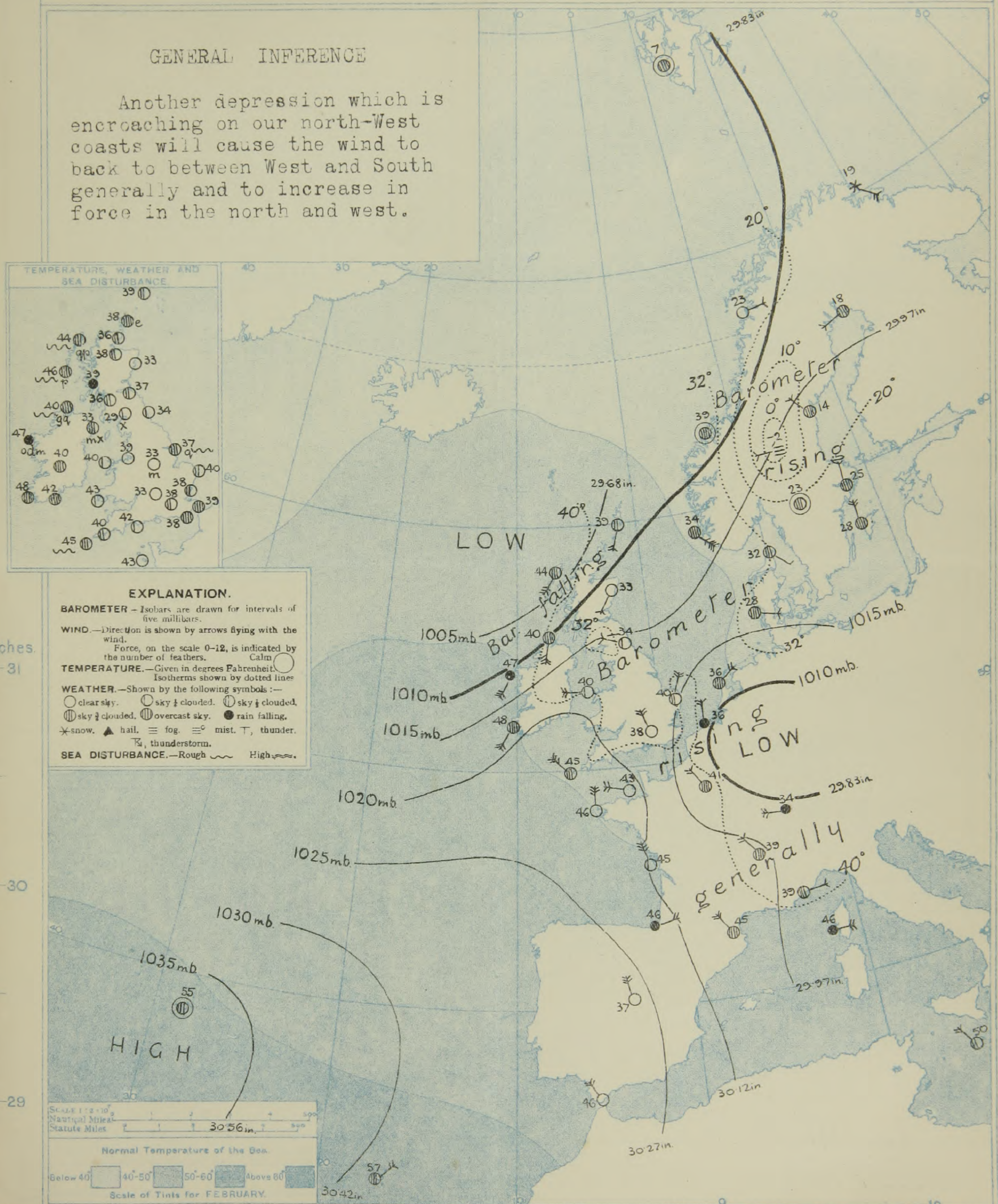
No Warnings Issued.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 12TH FEBRUARY, 1916.



Issue No. 19,805

DAILY WEATHER REPORT.

Saturday, 12th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...12th... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	...11th... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.		.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1012.3	5	W	1	f	1014.5	0	10	-11	SSE	1	*	0	*	?	*	*
Helsingfors ...	1011.9	28	ENE	2	o	1005.5	-4	27	-7	ENE	4	*	s	0	Trace	*	*
Hangö	1010.0	28	E	2	o	1004.6	-5	28	-6	ENE	3	*	s	o	-	*	*
Riga	1003.0	30	ASE	2	f	997.9	-2	30	0	-	0	*	f	0	2	*	*
Petrograd	1015.9	27	SSE	2	f	1008.6	-4	25	-5	E	4	-	0	*	?	34	25
Moscow	1021.8	25	SE	3	r	1015.1	-6	27	-1	SE	4	*	s	*	1	*	25
Kiev	1005.9	32	SSE	3	f	1011.7	+3	32	0	WNW	3	*	0	*	10	*	30
Kharkov	1019.4	28	ESE	2	o	1016.2	0	30	+3	S	2	*	r	*	-	*	*
Kishinev	1007.4	43	SSW	3	b	1013.9	+4	32	-5	NW	1	*	o	*	-	*	32
Elisabetgrad ...	1009.6	36	SSE	4	r	1012.4	+4	36	+6	SW	1	*	f	*	5	*	30
Nicolaiev	1010.1	41	ESE	6	r	1013.0	*	?	?	-	0	*	f	0	1	*	30
Odessa	1008.8	43	SW	4	o	1011.8	+2	37	0	NW	2	*	0	0	-	*	37

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	44	33	bc	bc	5.4
	Banff	0.2	42	34	d.c	bc	0.1
	St. Andrews	2	41	34	*	*	0.1
Eng. N.E.	Harrogate	9	34	32	os	os	0.0
	Skegness	8	40	35	ogr	r	0.0
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	6	42	32	ors.r	o.c.bc.c	1.2
Midlands.	Buxton	7	37	32	cs	cs	0.0
	Leamington Spa	7	40	34	omr	omr	0.6
	Malvern	14	43	36	r.o	o	0.1
	Ross-on-Wye	12	44	37	or	bc.b	1.5
Wales.	Rhyl	14	44	38			1.0
	Colwyn Bay	14	43	39	r.bc	p.bc	0.8
	Llandudno	15	44	39	r	r.c	1.1
	Aberystwyth	8	45	39	r.o.c	c.b.o	2.5
	Tenby	14	46	39	bc	bc.or	5.4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	6	41	34	or	or	0.0
	Felixstowe	6	43	34	o.or	or	0.0
	Walton-on-Naze	5	44	37	o.or	o.or.o.c	0.0
	Southend-on-Sea	6	45	38	r	o	0.0
England, S.E.	Margate	10	44	37	or	or	0.0
	Ramsgate	8	44	35	r	r	0.0
	Hastings	8	47	39	or	or.o	0.0
	Eastbourne	7	49	40	or	o	0.0
	Seaford	2	48	39	r	r.o	0.0
	Brighton	14	48	38	or.o.or.o	o	0.0
	Worthing	7	49	39	r.o	c	0.4
	Littlehampton	15	49	39	r.o	o.bc.o	0.4
	Bognor	17	49	41	or	o	0.7
	Southsea	14	48	38	o	o	0.0
	Bournemouth	18	46	38	r.o	c.o	1.2
England, S.W.	Weymouth	17	47	40	op.bc	bc	3.8
	Torquay	10	49	41	o.c.bc	bc.b	3.7
	Paignton	10	47	41	c.bc	p.bc	4.7
	Penzance	21	49	44	r.bc	bcgp	5.0
	Newquay	*	45	41	bc	bcp	4.7
	Ilfracombe	17	46	41	c.bc	bcp.bc	1.6
	Weston-super-Mare ...	11	46	38	c.bc	bc.b	1.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	87	79	0.0	44	37	32	4	o.or	o.g.o.r.o	o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	80	0.0	44	36	32	3	r.o.or	o.p.r	bc.o
Camden Sq. (Brit. Rainfall)	95	78	0.0	45	36	31	3	or	or.o	*
Hampstead (Reservoir) ...	*	80	0.0	41	33	25	3	or	or.o	o.r.bc.x
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	76	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
120 Joules	35 Milliwatts.	14 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2	44	36	33	or.b	bc	bcph	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	10	38	33	31	*	r	r.o.c	0.0
Oxford to 8 p.m.	*	40	38	36	or	o	o	*
Teignmouth to 9 ,,	5	49	43	39	or.c	c.bc	b	4.7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	7	44	37	33	b.o.or	or	o.	*

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

12th & 13th February 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.18 / 7.16	12.7 / 12.7	4.56 / 4.58
Greenwich	7.22 / 7.20	12.14 / 12.14	5.6 / 5.8
Wick	7.54 / 7.52	12.26 / 12.26	4.57 / 5.0
Valencia	8.4 / 8.2	12.55 / 12.55	5.46 / 5.48

NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally – snow or hail in some northern districts, and scarcely any bright sunshine was recorded except in the north and west. Temperature rose to about 50° at some southern stations, but only to 54° at Harrogate.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 44

Sunday, 13th February.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	996.2	43	S	6	om	992.0	0	40	+1	SSW	6	-	oq	5	9	44	36	c.omp	om	orq	*
	Deerness (Orkney)	992.2	43	S	7	oeq	995.2	*	36	-2	SW	6	SW	bcp	6	24	44	33	o	oq	a.c.bcp	0.0
	Stornoway ...	991.8	46	W	6	cqp	997.3	+3	40	-4	W	6	-	bcq	5	13	48	35	cqp	or. cqp.	c.bqrpd	0.0
	Castlebay (Barra Isd.)	996.8	47	SW	6	bcp	1002.9	+2	40	-6	W	7	-	ohp	7	3	49	38	op.r	r.o.bcp	hp.bch	0.0
	Glasgow ...	1004.4	45	SSW	4	r	1008.1	+3	35	-1	SW	3	-	o	*	11	46	34	b.ohp	ogr	rs.crsp	0.0
	Eskdalemuir ...	1009.2	42	SSW	6	omr	1010.4	+1	37	+8	SW	6	SW	o	*	18	44	26	ex.odm	omr	omr.bc	0.1
	Malin Head ...	1002.1	47	SSW	7	eq	1007.9	+5	42	+2	SW	7	W	bcq	8	3	47	36	omd	omqd	bcq	0.0
	Blacksod Point	1006.8	47	WSW	7	cmd	1013.1	+4	39	-8	W	7	W	bcqp	5	3	49	36	omd	omr	bcqph	*
	Valencia ...	1016.0	50	SW	5	o	1020.0	+3	46	-2	W	4	SW	c	4	4	52	45	bc.c.o.c	o.c.or	o.c.bc.op.c	0.0
	Roche's Point	1017.7	50	WSW	3	r	1020.2	*	42	0	WSW	2	-	o	3	1	50	41	op	or	op.c.b.o	*
	Birr Castle ...	1011.4	48	S	3	r	1016.4	*	40	0	WSW	1	-	c	*	3	50	39	od	od.or	or.c	0.0
	Donaghadee ...	1007.5	48	SW	5	cmq	1012.1	+4	38	+5	WSW	3	-	bcm	3	3	48	33	omp	cmp	bcqpl	*
	Liverpool (Bidston)	1015.9	46	SSW	8	o	1015.7	+2	43	+4	WSW	4	SW	o	3	1	49	39	b	oq	op	4.2
	Holyhead ...	1014.1	48	SW	6	ome	1015.6	+2	45	+5	WSW	5	-	omp	4	4	48	40	b.bcd.o	omdp	or.b.o	0.2
	Pembroke (St. Ann's)	1019.4	48	WSW	4	c	1019.2	+2	48	+5	WSW	4	W	cq	4	1	49	43	bc.cqp	cqp.c	cqp	0.7
	Scilly (St. Mary's)	1022.5	49	SW	5	cq	1022.6	+2	48	+3	W	5	W	c	5	2	52	44	cqp	cq	omd.c	1.7
	Falmouth ...	1022.8	48	SSW	4	o	1022.8	+3	45	+5	WSW	2	-	b	*	3	50	39	bc.c.o	o.c.op.o	od.bcp	3.3
	Jersey (St. Aubin)	1025.3	46	W	3	o	1023.7	*	49	+6	WSW	4	-	ome	3	0.3	50	42	b	bc.o	c.od.be	8.0
	Portland Bill ...	1021.2	47	WSW	3	o	1020.6	+2	49	+7	W	3	W	c	4	1	49	42	bc.b.	bc.c	bcp.e	*
	Dungeness ...	1023.1	42	WNW	3	bc	1019.8	-1	47	+9	SW	5	SW	oqp	5	2	?	?	o.c.bc	bc	b.bc.o	*
	Dover	1023.7	38	N	1	b	1019.9	0	44	+5	SW	5	SW	omd	6	2	46	35	o.c.bc	bc	bq.c.or	5.5
	Wick	994.5	44	S	5	c	997.9	+3	37	+1	SW	4	-	bc	4	0.3	44	34	bc.cq	cq.cm	bcqp	*
	Nairn	995.7	46	SSW	5	orq	1001.3	*	35	-3	SW	4	-	cq	3	3	46	34	bc.cq	cqqr	cqrs	1.1
	Aberdeen ...	1001.5	43	S	5	o	1004.0	+3	36	+3	SW	4	W	b	2	Trace	47	32	bc.eq.o	oq	oqp.c.b	0.0
	Leith	1005.5	38	SW	4	r	1006.6	+1	37	0	SW	3	SW	c	3	4	48	35	bc.o	orq	rq.o.c	*
	Tynemouth ...	1012.0	44	SW	4	omq	1016.3	+3	42	+8	SW	3	-	bm	3	-	46	33	cm	bcm	bm	*
	Spurn Head ...	1018.8	41	SW	4	bcm	1014.7	+1	42	+5	W	3	-	bc	4	1	45	37	cm	bcm	or.bc	3.8
	Yarmouth ...	1021.4	38	SW	1	bc	1016.5	+1	45	+5	WSW	2	-	om	2	Trace	45	36	bcm	bcm	bcm.op	2.7
	Clacton-on Sea	1021.8	40	SW	1	bc	1018.1	0	46	+8	WSW	2	W	o	3	-	46	37	bc	bc	b.bc.c.o	6.0
	Nottingham ...	1018.9	43	SW	2	o	1016.0	*	41	+8	W	1	W	o	*	0.4	47	31	bm	bm.c.o	o.c	5.1
	Benson (Oxon.) ...	1021.9	39	S	1	b	1018.9	+2	45	+12	SSW	2	-	b	*	Trace	46	33	b	b	b.r	*
	Sth Farnborough	1022.5	40	SW	2	bc	1018.9	0	47	+11	SW	4	-	c	*	1	48	35	b	b.bc	bc.b.bcp	7.9
	London (Kew Obsy.)	1022.9	41	SW	2	bm	1018.9	+1	47	+9	WSW	4	W	o	*	1	47	37	bc.b	b.bm	bm.bf.or.o	7.0
NORTHERN EUROPE.	Spitsbergen ...	1008.3	27	-	0	o	1008.7	0	-1	-8	SSE	4	*	bc	*	*	27	-1				
	Vardö	1014.1	21	SE	3	o	1015.0	0	23	+5	S	1	-	s	2	*	23	14				
	Bodö	1000.4	28	E	4	b	991.9	-7	28	+5	E	6	-	bc	2	-	28	21				
	Christiansund	1004.1	39	SSE	1	c	993.1	-3	41	+2	SSE	1	-	c	3	-	41	39				
	Skudesnaes ..	1012.3	37	ESE	8	o	1001.6	-2	39	+5	NE	2	-	o	6	18	39	34				
	Færder (Xiania Fjord)	1018.7	34	SW	4	o	1010.4	-5	34	+7	SSW	6	-	o	3	-	34	27				
	The Skaw (Skagen)	1020.8	34	SSW	2	o	1013.0	-4	34	+2	SSW	5	-	o	5	-	34	30				
	Blaavands Huk	1020.8	34	SE	2	o	1014.6	-4	37	+9	SSW	4	-	o	4	-	37	27				
	Haparanda ...	1014.6	14	WSW	2	o	1014.3	-1	12	-6	NE	2	-	o	*	-	18	10				
	Hernösand ...	1015.1	7	-	0	b	1013.3	-2	7	-7	-	0	-	o	*	-	16	-2				
	Stockholm ...	1021.5	23	SW	2	o	1020.3	0	23	-2	S	2	-	b	*	-	25	19				
	Wisby	1022.9	27	W	2	o	1022.0	0	30	+2	SW	2	-	c	*	-	32	25				
	Karlstad	1020.6	25	—	0	c	1015.3	-3	30	+7	S	4	-	o	*	-	30	23				
FRANCE, &c.	The Helder ...	1020.8	32	NE	1	o	1016.8	-3	41	+5	SSW	6	-	o	3	-	41	30				
	C. Gris Nez ...	1022.7	42	NNW	3	b	1020.0	-2	46	+5	SW	5	*	r	4	1	46	41				
	La Hève	1025.0	41	NW	3	bc	1024.0	*	43	+1	SW	4	*	o	4	-	45	39				
	Brest (St. Mathieu)	1027.1	49	W	3	o	1026.1	0	50	+4	WSW	4	*	f	3	1	52	46				
	Rochefort (Ile d'Aix)	1028.4	46	NNW	4	b	1030.3	0	45	0	SSW	3	*	o	*	-	48	41				
	Biarritz	1029.0	43	NNW	4	r	1031.9	+2	45	-1	ESE	3	*	o	5	5	50	43				
	Paris	1024.7	41	NW	3	o	1027.5	0	36	-5	S	2	-	o	*	-	43	30				
	Belfort	1023.1	36	W	3	r	1031.3	*	?	?	W	?	*	?	*	2	36	33				
	Lyons	1025.0	38	NNW	3	o	1031.3	*	37	-2	NW	3	*	c	*	-	40	37				
	Nice	1017.2	41	-	0	b	1023.0	+4	39	0	-	0	*	b	2	-	48	37				
	Perpignan ..	1023.8	45	NW	3	bc	1029.0	+3	43	-2	NW	3	NW	b	*	-	50	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034.3	52	N	3	o	1035.3	0	48	-2	NE	1	-	f	3	1	52	46				
	Madrid (8 a.m.)	1028.0	43	ENE	3	b	1034.4	+4	34	-3	-	0	-	m	*	-	45	30				
	Lisbon (9 a.m.)	1031.3	52	NNW	5	b	1033.1	0	50	+4	NNW	2	-	b	6	-	54	46				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1015.9	0	54	+4	SW	3	-	o	3	-	55	48				
	Azores (Horta, 8 a.m.)	1033.9	*	SE	1	c	1033.2	0	57	+2	-	0	*	c	2	2	66	55				
	Madeira (Funchal)	1030.4	61	ENE	5	bc	1030.0	0	55	-2	NE	4	NE	bc	4	-	63	55				
YESTERDAY'S REPORTS				11th ..., 8 P.M. G.M.T.			12th February 7 A.M. G.M.T.															
ITALY.	Venice	1010.7	39	-	0	c	1011.9	0	34	-3	-	0	*	b	2	-	*	*				
	Turin	1009.7	37	-	0	o	1012.6	0	34	+2	-	0	*	f	*	-	*	*				
	Florence	1009.5	39	NE	3	b	1010.9	0	32	-9	-	0	*	b	*	-	*	*				
	Pesaro	1009.6	39	WSW	4	c	1011.9	0	32	-4	SW	3	*	b	4	2	*	*				
	Leghorn	1010.9	41	—	0	b	1012.0	0	32	-7	NE	3	*	b	4	-	*	*				
	Rome	1007.7	41	NE	4	b	1010.9	0	34	-7	NE	3	*	b	*	-	*	*				
	Brindisi	1002.8	52	NNW	5	c	1008.0	0	45	-5	WNW	4	*	o	5	Trace	*	*				
	Cagliari	1011.7	48	NW	4	b	1010.0	0	46	+3	E	3	*	bc	3	Trace	*	*				
	Palermo	1008.9	46	NW	4	r	1011.7	0	43	+2	-	0	*	bc	5	10	*	*				

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

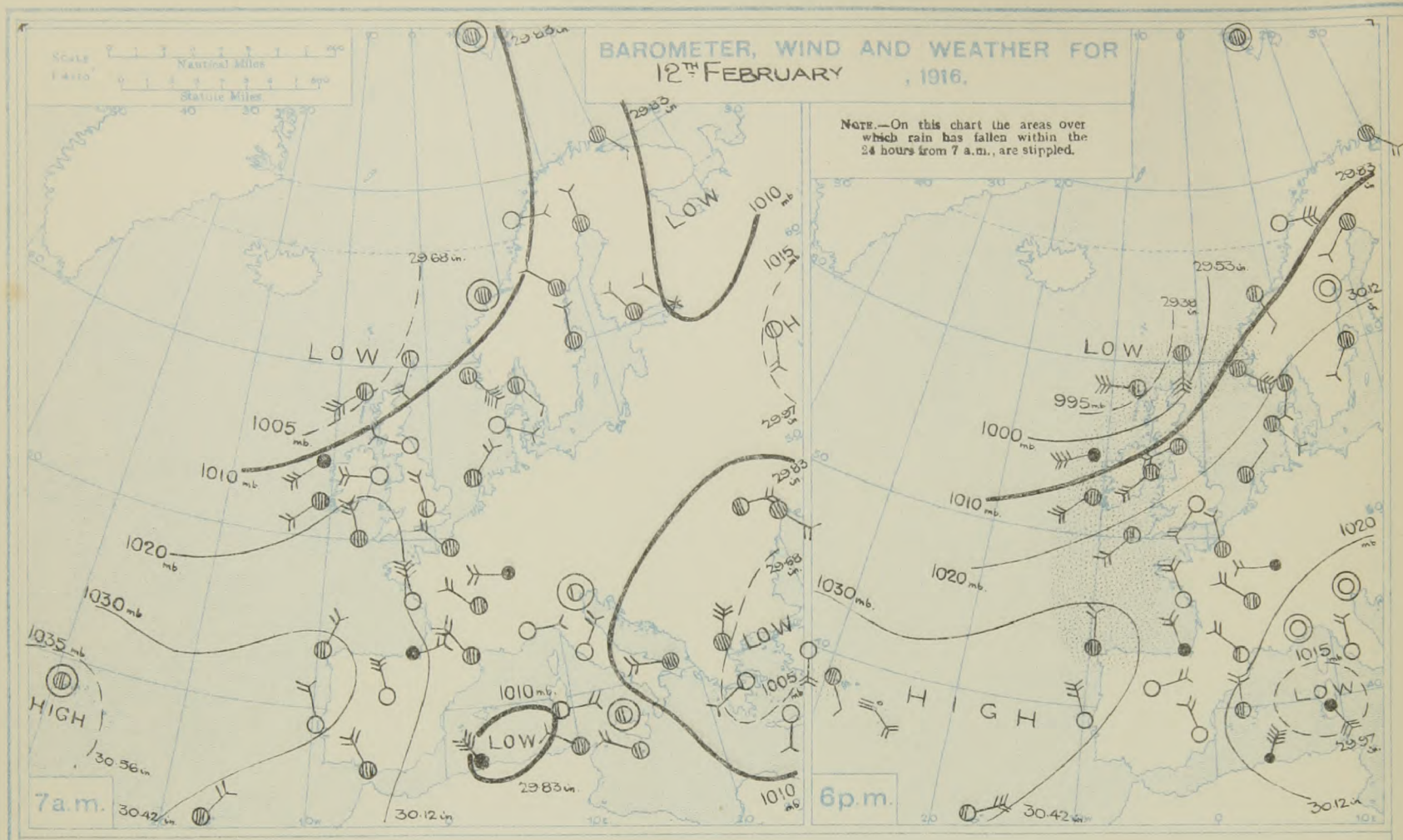
GALES.
Duration and Extreme Force in British Islands.

Stornoway.
12th During night Squalls W 8.

Castlebay.
12th 7 p.m. – 10 p.m. W 8.

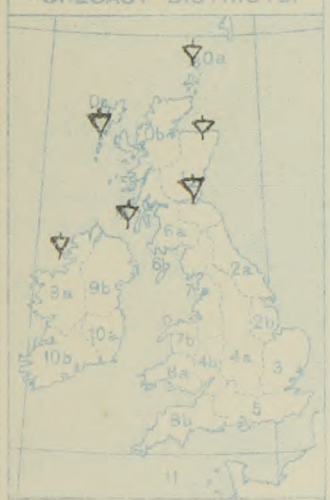
Blacksod Point.
12th During night Squalls WQ.

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

Warnings Issued at 2 p.m.

0 a, b; 1 — Wind South-Westerly and Westerly, fresh or strong to moderate; changeable, showery, fair intervals; moderate temperature.

2 a, b; 3; 4 a, b; 5 — Wind mainly Westerly, moderate or light, some showers, fair intervals; moderate temperature.

6 a, b — Same as Nos. 0 and 1.

7 a, b; 8 a, b — Wind between West and South West, moderate, fresh locally; changeable, some showers; moderate temperature.

9 a, b — Same as Nos. 0 and 1.

10 a, b — Westerly winds, light or moderate to fresh; changeable; some showers; moderate temperature.

Western Channel and Bay 11 — Westerly winds, fresh to moderate; sea rather rough; some mist and showers.

FURTHER OUTLOOK.

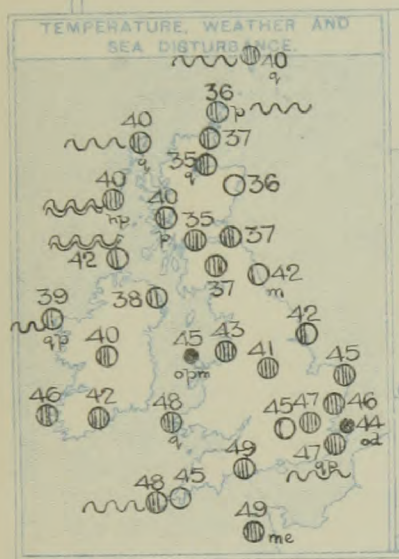
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 13TH FEBRUARY, 1916.

GENERAL INFERENCE.

It appears probable that further depressions will arrive over this country or its neighbourhood from the westward



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈.

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

Scale 1:12 410°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

LOW

HIGH

Barometer falling

Barometer rising

slowly

generally

995 mb.
1000 mb.
1005 mb.
1010 mb.
1015 mb.
1020 mb.
1025 mb.
1030 mb.
1035 mb.

Issue No. 19,806

DAILY WEATHER REPORT.

Sunday, 13th February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	11th at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	12th at 7 A.M. Local Time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel ...	-	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg ...	1014.0	12	NE	2	0	1013.9	0	14	+4	NE	2	*	0	*	-	*	*
Helsingfors ...	1015.1	25	N	3	b	1011.3	+4	27	0	NNW	2	*	0	0	2	*	*
Hangö ...	1006.2	27	-	0	c	1012.2	+5	25	-3	-	0	*	0	0	4	*	*
Riga ...	.	.	.	.	.	.	.	-	.	.	.	*	.	.	.	*	*
Petrograd ...	1001.9	27	NE	3	s	1006.7	+4	25	0	NW	2	-	s	*	6	27	25
Moscow ...	1012.4	32	S	4	0	1015.1	+1	28	+1	SSW	3	*	bc	*	1	*	30
Kiev ...	-	.	.	.	.	.	.	.	.	-	.	*		*	.	*	.
Kharkov ...	1017.1	34	ESE	1	f	1015.1	-1	34	+4	-	0	*	f	*	4	*	*
Kishinev ...	1013.0	40	-	0	0	1008.8	*	40	+8	ESE	4	*	c	*	-	*	36
Elisabetgrad ...	1011.1	46	ENE	2	0	1006.7	-5	37	+1	-	0	*	f	*	6	*	34
Nicolaiev ...	.	.	.	.	.	.	*	.	.	.	.	*	.	.	.	*	.
Odessa ...	1011.3	37	ESE	3	f	1005.9	-3	41	+4	SE	3	*	0	0	3	*	37

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

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban ...	1	47	33	r	0	0.0
	Banff ...	-	43	32	bc	bc	0.4
	St. Andrews ...				*	*	
Eng. N.E.	Harrogate ...	1	42	31	b	bbc.c.0	5.6
	Skegness ...	5	46	35	0.bc	bc	6.1
Eng. N.W.	Morecambe ...						
	Blackpool ...						
	Southport ...	-	47	38	bc0	bc. 0	3.4
Midlands	Buxton ...	3	41	29	b	bc	4.2
	Leamington Spa ...	0.2	46	31	bm	bcm	4.8
	Malvern ...						
	Ross-on-Wye ...	-	48	33	b.bc	be.m.o	5.4
Wales.	Rhyl ...						
	Colwyn Bay ...						
	Llandudno ...						
	Aberystwyth ...	1	46	39	r.0.c	c.0	2.0
	Tenby ...	-	47	33	b	bc	2.8

	STATIONS.	Rainfall mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft ...						
	Felixstowe ...	2	44	35	bc	bc	4.2
	Walton-on-Naze ...	0.3	44	35	bc.b.c	bc.b	6.4
	Southend-on-Sea ...	.	47	39	0.cbcb	b	6.2
England, S.E.	Margate ...	1	43	38	0	0.bcb	3.0
	Ramsgate ...	2	40	35	c	bc	4.2
	Hastings ...	-	45	38	0.bcb	b	4.6
	Eastbourne ...	0.1	47	38	bc.b	bm.b	6.5
	Seaford ...	-	47	34	b	b	7.3
	Brighton ...	-	47	38	bc.b	b	7.4
	Worthing ...	2	48	36	b	b	7.5
	Littlehampton ...	-	47	40	b	b	7.5
	Bognor ...	-	48	37	b	bc	7.9
	Southsea ...						
	Bournemouth ...	-	49	35	b	b.bc	7.3
England, S.W.	Weymouth ...	-	49	37	3.b	b.0	6.3
	Torquay ...	-	50	36	b	bbc.c.0	5.7
	Paignton ...	-	51	37	bc	c	5.6
	Penzance ...	1	52	45	bc	bc.c	0.7
	Newquay ...	0.3	49	41	c.bc	c.bc	1.0
	Ilfracombe ...						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature In Screen Max. (24 hours ended 9 A.M. To-Day) °F.	Temperature In Screen Min. °F.	Temperature Min. on Grass °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.) ...	62	87	4.5	48	37	29	1	b	bc.c	0.0r.0
City (Bunhill Row) ...	*	*	4.5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	65	88	5.5	49	38	31	1	0.bc	bc	r.bom
Camden Sq. (Brit. Rainfall)	62	87	5.6	48	38	32	1	b	b	*
Hampstead (Reservoir) ...	*	91	7.4	47	38	28	1	bc	0.fp	fpo
Richmond Park ...	*	*	7.2							
Kew. (See front page.)	*	*	7.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	58	83	6.5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
572 Joules	16.3 Milliwatts.	32 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain. Fall. mm.§	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	Temperature Night Min. on Grass °F.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	0.3	51	33	29	bx.c	c	c.fp	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*	48	35	29	0.bc	b	b.bco	*
Teignmouth to 9 ,,	-	52	40	30	b	b.bc	bc.c	5.2
Plymouth ,,	1	50	37	*	bcopq	ov.bc	or	2.5
S. Kensington (Museum Grounds to 6 p.m.)	Trace	47	40	37	0.b	b	b.bz	*

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

13th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth ...	7.16 / 7.14	12.7 / 12.7	4.58 / 5.0
Greenwich ...	7.20 / 7.18	12.14 / 12.14	5.8 / 5.10
Wick ...	7.52 / 7.50	12.26 / 12.26	5.0 / 5.2
Valencia ...	8.2 / 8.0	12.55 / 12.55	5.48 / 5.50

PILOT BALLOON ASCENTS for the PAST WEEK

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

Heights in Kilometres.	Benson 7th 12.20h. Comp. to E.	Benson 7th 12.20h. Comp. to N.	Sth. Kensington 7th 15.50h. Comp. to E.	Sth. Kensington 7th 15.50h. Comp. to N.	Sth. Farnboro' 8th 7.25h. Comp. to E.	Sth. Farnboro' 8th 7.25h. Comp. to N.	Sth. Kensington 8th 15.40h. Comp. to E.	Sth. Kensington 8th 15.40h. Comp. to N.	Sth. Farnboro' 9th 7.20h. Comp. to E.	Sth. Farnboro' 9th 7.20h. Comp. to N.	Sth. Farnborough 12th 7.25h. Comp. to E.	Sth. Farnborough 12th 7.25h. Comp. to N.	Eskdale muir. 10th 13h. Comp. to E.	Eskdale muir. 10th 13h. Comp. to N.
3					+14	+2			+8	-5			+1	-12
2					+13	-1	+11	+1	+8	-5	+2	-18	+7	-1
1.5	+18	-3	+17	+1										
1	+17	-2	+15	+1	+16	0	+9	+1	+6	-3	+1	-16	+3	+1
0.5	+11	+1	+12	+4	+11	+2	+9	+1	+7	+1	+7	-9	+2	0
0	+8	+1	+4	0	+4	+2	+3	0	+4	+2	+3	-4	0	0

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 45 { Monday 14th February

	STATIONS.	Yesterday Evening: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	This Morning 7 A.M., G.M.T.: Barometer: Millibars at M.S.L.	Barometer: Change in 3 hours. ‡	Temp.: Dry Bulb. °F.	Temp.: Change in 24 hours °F.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 Hours: Rainfall. Millimetres.	Temp.: Max. °F.	Temp.: Min. °F.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	997.5	42	SW	7	omq	999.2	-4	40	0	SSW	5	s	c	4	14	43	34	qspll	omqsp	csp	*
	Deerness (Orkney)	1001.3	38	SW	6	oplt	990.2	*	39	+3	S	6	-	cuq	5	9	39	33	bc.cp	c.op	o.c	3.4
	Stornoway ...	1003.1	37	W	3	b	985.8	-9	37	-3	SW	7	-	opq	6	8	42	34	bcpohq	bphq	b.bcpq	2.9
	Castlebay (Barra Isd.)	1006.1	41	SW	6	cqhp	989.5	-3	41	+1	W	6	-	o	6	5	44	35	h.o.bcp	bcphq	cq.bco	2.7
	Glasgow ...	1010.3	37	SW	3	c	995.4	-12	40	+5	SW	4	-	o	*	5	40	34	bcrsp	crsp	bcc.op	1.4
	Eskdalemuir ...	1011.2	37	WSW	7	b	998.2	-12	39	+2	SSW	6	-	orh	*	5	40	29	o.c.bc	bc b	cdbcor	4.1
	Malin Head ...	1009.6	40	WNW	4	bcq	993.2	-8	38	-4	WSW	6	-	oqcp	7	5	44	35	bcqph	bcqp	oqdr	3.7
	Blacksod Point	1011.1	41	SW	4	bcm	997.8	0	33	-6	SW	8	sw	omps	5	6	47	33	omqp	bcm	omstc	*
	Valencia ...	1011.4	43	S	2	r	1007.4	+2	44	-2	SW	8	W	cp	7	5	49	39	c.o	odr	rd.o.c	0.0
	Roche's Point	1018.2	44	W	1	r	1008.7	*	43	+1	WNW	5	NW	b	4	4	48	42	o.c.o	or	dm.b	*
	Birr Castle ...	1014.6	40	S	1	c	1003.2	*	36	-4	SW	5	-	r	*	5	46	33	cp	cp	corq	0.0
	Donaghadee ...	1013.4	40	WSW	3	cm	997.7	-6	40	+2	SW	4	SW	cmd	3	2	43	35	cmp	cmp	bc.cmp	*
	Liverpool (Bidston)	1016.7	42	WSW	2	o	1004.1	-4	41	-2	SSW	3	W	o	2	2	45	38	b.bc	c o	or	2.5
	Holyhead ...	1015.7	45	WSW	4	oq	1002.4	-7	46	+1	SW	6	SW	cqg	5	3	46	42	p.o.c	cp.o	op.o	1.0
	Pembroke (St. Ann's)	1018.2	46	?	3	oqp	1007.6	-7	48	0	SW	6	SW	cq	5	10	48	40	oqp	oqp	cqp	0.6
	Scilly (St. Mary's)	1018.2	47	WSW	2	odf	1014.2	-1	49	+1	WSW	6	SW	cmq	6	1	51	45	omom	omdofd	omdcq	1.2
	Falmouth ...	1016.8	47	SSW	3	odm	1014.5	+1	48	+3	SW	5	-	c	*	6	53	44	bc	c.opc	odrqd	2.3
	Jersey (St. Aubin)	1024.0	49	WSW	3	o	1018.0	*	50	+1	WSW	4	-	o	3	4	53	43	oe.m.b	bc.c.o	or.o	4.2
	Portland Bill ...	1021.6	49	WSW	4	or	1013.4	+2	48	-1	W	5	W	cu	4	3	50	45	c.bc	c.op	or.c	*
	Dungeness ...	1021.2	46	SW	4	bc	1012.0	0	48	+1	WSW	4	-	o	4	5	51	45	opbc	bc	bc.oro	*
	Dover	1022.1	45	W	3	b	1011.6	0	46	+2	SW	6	W	c	6	7	54	43	o.c.bcb	b	bc.opr	5.5
	Wick	1004.0	35	SW	3	c	991.7	-11	39	+2	S	5	-	r	5	4	40	33	bcqps	bcqcm	bcomp	*
	Nairn ...	1005.7	35	W	2	c	990.3	*	37	+2	WSW	4	-	cq	3	2	40	32	cpr.o	bc	bcx.c	4.2
	Aberdeen ...	1006.2	39	SSW	3	b	995.3	-9	39	+3	S	4	-	op	3	Trace	45	35	bzb	b	b.bc.o	7.0
	Leith	1010.5	39	W	2	c	995.8	-5	41	+4	SW	3	SW	c	4	-	41	34	cpqo	c.bc	cp.c	*
	Tynemouth ...	1014.0	41	SW	3	cm	?	-8	38	-4	SSW	2	-	cmq	3	-	45	37	bcm	bcm	cm	*
	Spurn Head ...	1017.0	43	W	3	bc	1006.9	-3	39	-3	SW	4	-	o	4	2	45	36	bc	bc	bcm	3.0
	Yarmouth ...	1019.5	43	WNW	2	bc	1008.4	-1	40	-5	SW	2	-	c	2	4	51	39	bc	bc	op.bc	4.9
	Clacton-on-Sea	1020.8	46	SW	2	bc	1009.4	+1	48	+2	W	3	W	bc	3	10	52	42	o.c.bc	bc	bc.or	5.8
	Nottingham ...	1017.8	41	S	1	o	1007.6	*	39	-2	W	2	SW	bm	*	5	48	38	o.cm	c.o	or	3.2
	Benson (Oxon.) ...	1020.0	45	WSW	3	c	1011.1	+2	43	-2	SW	3	-	c	*	6	52	43	c	bc	r	*
	Sth Farnborough	1020.6	46	WSW	3	o	1011.3	+3	46	-1	W	4	-	ov	*	4	52	45	b.c.bc	bc.b.bc.o	or.o	6.4
	London (Kew Obsy.)	1021.6	46	SW	2	o	1011.1	+4	48	+1	W	4	-	o	*	5	51	43	o.czbc.cu	or.c.o	o.omr.o	5.0
NORTHERN EUROPE.	Spitsbergen ...	1008.0	14	-	0	bc	1003.7	0	21	+22	ESE	6	*	bc	*	*	21	-1				
	Vardö	1014.1	18	SSE	3	o	1010.0	-2	18	-5	S	6	SW	b	4	*	23	12				
	Bodö	1003.7	21	E	6	s	993.3	-1	30	+2	E	5	-	c	2	-	30	16				
	Christiansund	995.3	41	SW	2	c	997.7	0	39	-2	WNW	4	-	c	3	1	43	39				
	Skudesnaes ..	1005.6	39	WSW	4	b	1002.7	-3	39	0	SSE	4	-	c	4	-	41	36				
	Færder (X'iania Fjord)	1007.7	37	SW	4	c	1006.4	-1	34	0	SW	4	-	bc	3	1	37	32				
	The Scaw (Skagen)	1009.5	36	SW	2	bc	1008.8	-1	34	0	SW	3	-	bc	3	-	37	32				
	Blaavands Huk	1013.9	39	WSW	2	o	1010.3	-3	36	-1	NW	1	-	o	1	1	41	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1018.4	43	SW	2	c	1007.5	-8	41	0	SE	1	-	o	1	4	46	39				
	C. Gris Nez ...	1021.2	46	SW	4	bc	1012.4	0	48	+2	WSW	6	*	r	6	7	48	43				
	La Hève	1023.3	45	W	3	o	1017.0	*	47	+4	SW	5	*	o	4	3	48	43				
	Brest (St. Mathieu)	1024.3	50	SW	4	f	1021.0	0	51	+1	SW	3	*	c	4	-	52	48				
	Rochefort (Ile d'Aix)	1030.0	50	SW	3	o	1027.4	0	50	+5	WSW	5	*	o	*	1	52	43				
	Biarritz	1030.7	50	WNW	2	o	1030.7	0	48	+3	S	2	*	o	5	-	54	48				
	Paris	1025.3	46	SSW	2	o	1020.2	-1	50	+14	SW	4	-	o	*	4	50	36				
	Belfort	1038.7	39	W	3	o	1026.1	*	40	-	WSW	6	*	r	*	2	42	35				
	Lyons	1031.8	40	-	0	b	1030.7	*	37	0	-	0	*	r	*	-	47	37				
	Nice	1026.1	44	-	0	b	1027.3	+1	42	+3	SE	1	*	b	2	-	54	39				
	Perpignan ..	1028.4	48	NW	3	b	1029.1	0	46	+3	NW	1	-	b	*	-	54	43				
	Sanguinaire ...	*	54	E	3	bc	*	*	48	-	SE	3	*	bc	4	-	55	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1033.5	55	W	1	o	1033.2	?	52	+4	SW	1	-	o	4	?	57	48				
	Madrid (8 a.m.)	1030.4	52	NE	2	b	1035.9	+3	34	0	-	0	-	b	*	-	32	30				
	Lisbon (9 a.m.)	1032.8	54	WNW	3	b	1033.3	+1	48	? -2	N	2	-	b	4	-	57	48				
	Gibraltar	1031.1	52	E	2	b	1031.8	*	48	-	E	4	*	o	1	-	58	45				
	Malta (8 a.m.) ...	*	*	*	*	*	1017.5	+1	50	-4	NW	1	-	o	2	4	55	46				
	Azores (Horta, 8 a.m.)	1034.6	*	WSW	4	o	1035.7	+1	56	-1	-	0	*	bc	2	4	64	55				
	Madeira (Funchal)	1028.4	64	ENE	5	bc	1030.6	0	59	+4	ENE	4	NE	bc	4	-	68	59				
YESTERDAY'S REPORTS		Feb. 13th, 8 P.M. G.M.T.					Feb. 13th, 7 A.M. G.M.T.															
ITALY.	Venice	1019.1	41	-	0	b	1024.3	+1	36	+2	N	3	*	b	3	-	*	*				
	Turin	1018.6	41	-	0	c	1025.9	0	34	0	-	0	*	b	*	-	*	*				
	Florence	1017.4	39	-	0	o	?	0	34	+2	-	0	*	b	*	-	*	*				
	Pesaro	1019.9	43	W	3	c	1024.1	0	32	0	SW	3	*	b	3	-	*	*				
	Leghorn	1018.0	43	-	0	b	1022.0	0	39	0	NE	3	*	b	1	-	*	*				
	Rome	1016.6	43	N	3	b	1021.5	0	36	+2	N	3	*	c	*	-	*	*				
	Brindisi	1016.1	50	NW	4	o	1018.9	0	43	-2	WNW	4	*	c	2	Trace	*	*				
	Cagliari	1011.7	50	SSE	5	r	1014.0	0	48	+2	NW	4	*	o	4	-	*	*				
	Palermo	1015.1	48	-	0	b	1018.0	0	45	+2	-	0	*	o	5	-	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.30 a.m.

500 metres. W. 30 miles per hour.

GALES
Duration and Extreme Force in British Islands.

Castlebay: 13th Feb.

Squalls W. 9.

Eskdalemuir: 13th Feb.

W.S.W. 8 at Noon

Blacksod Point: 13th & 14th

W. 8. 7 a.m. to 11 a.m.

S.S.W. 8 1 a.m.
S.W. 8 7 a.m.

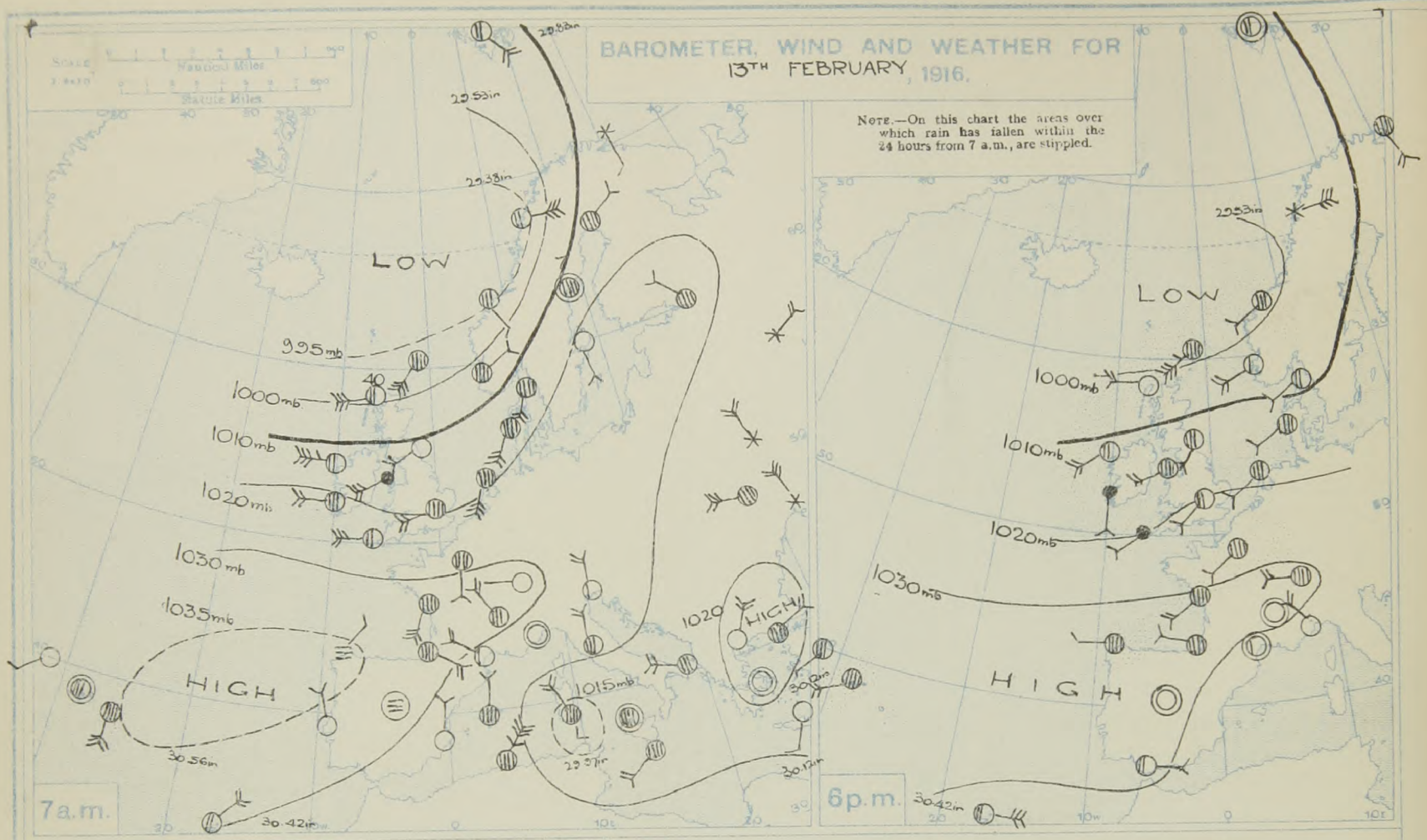
Valencia: 14th Feb.

S.W. 8 at 7 a.m.

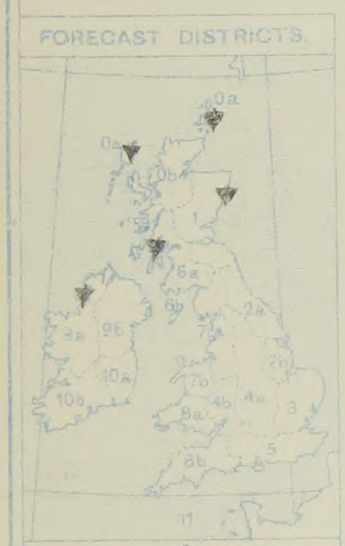
Dover: 14th Feb.

S.W. 8. at 4 a.m.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.



STORM WARNINGS.

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

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

South Cone hoisted today at 9am in Dists. 0, 1, 6 & 9

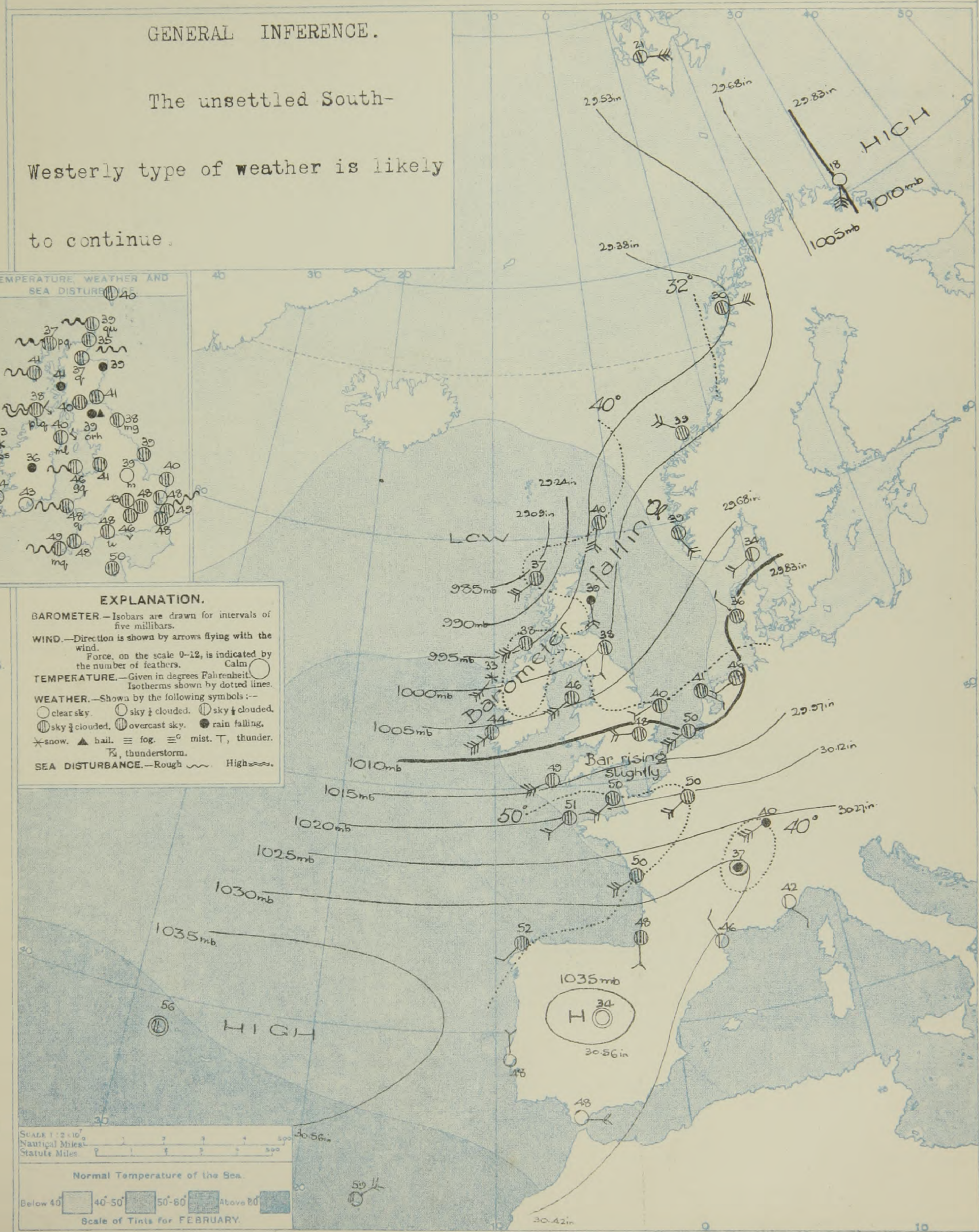
0 a, b; 1	Southerly and South-Westerly winds, fresh or strong to a gale; squally, showery; rather mild.
2 a, b; 3; 4 a, b; 5	South-Westerly to Westerly winds, moderate to fresh, strong at times; changeable, showery, squally; rather mild.
6 a, b	Same as Nos. 0 and 1.
7 a, b; 8 a, b	South-Westerly to Westerly winds, strong or high to moderate; squally, showery; rather mild.
9 a, b	Same as Nos. 0 and 1.
10 a, b	Same as Nos. 7 and 8.
Western Channel and Bay 11	High or strong to moderate Westerly winds; sea rough; changeable, showery.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 14TH FEBRUARY, 1916.



Issue No. 19,807

DAILY WEATHER REPORT.

Monday, 14th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	12th at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	13th at 7 A.M. Local Time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb °F.	Temp. Change in 24 hours °F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Ulleaborg	1015·8	16	SSE	4	0	1015·3	0	18	+4	S	4	*	0	*	—	*	*
Helsingfors ...	1020·4	21	N	1	0	1022·0	+1	18	-9	N	1	*	0	0	—	*	*
Hangö	1022·5	19	—	0	0	1021·5	0	28	+3	—	0	*	0	0	—	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1017·6	25	NNW	2	0	1023·4	+3	23	-2	NW	2	—	0	*	—	27	14
Moscow	1017·1	32	E	2	3	1016·4	0	28	-4	ENE	2	*	3	*	6	*	27
Kiev	1011·7	30	N	4	3	1014·6	+2	28	.	N	4	*	3	*	30	*	27
Kharkov	1012·3	?	ESE	3	?0	1011·3	0	32	-2	ESE	2	*	0	*	—	*	*
Kishinev	?1004·8	37	NW	3	0	1006·6	0	30	-10	NW	5	*	0	*	2	*	28
Elisabetgrad ...	1008·3	34	ESE	1	0	1010·4	+2	32	-5	NNW	3	*	0	*	—	*	30
Nicolaiev	1007·0	39	—	0	0	?1011·0	*	35	.	NW	2	*	0	0	—	*	34
Odessa	1007·7	41	E	2	0	1013·6	+4	32	-9	N	5	*	3	0	—	*	32

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	6	43	36	p.bc	b	1·3
	Banff	0·1	43	35	bc.b	b.bc	7·5
	St. Andrews				*	*	
Eng., N.E.	Harrogate	2	44	39	c.bc	bc.c.o	2·0
	Skegness	1	50	39	b	c.bc.	4·6
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	2	46	42	o.bc	bc.o	3·7
Midlands	Buxton						
	Leamington Spa	2	50	34	c.bc	c.bc	5·8
	Malvern	2	49	43	b.bc	c.o	5·0
	Ross-on-Wye	1	52	41	b.bc	bc.c	5·2
Wales.	Rhyl	2	46	37	bc	bc	0·1
	Colwyn Bay						
	Llandudno	4	50	39	bc	bc	1·0
	Aberystwyth	2	46	42	r.o.c	c.b.o	3·0
	Tenby						

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm §	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	—	52	36	bc	bc	5·8
	Walton-on-Naze	0·4	52	39	o.er.c.b	b.bc	5·8
	Southend-on-Sea	—	52	38	o.c.bc.b	b.bc.c	4·5
England, S.E.	Margate	0·4	52	37	b	b.bc	5·0
	Ramsgate	0·4	53	36	r.c	bc	5·7
	Hastings	2	50	40	b	bz	5·4
	Eastbourne						
	Seaford						
	Brighton	2	50	39	b.bc	bc.c.o	5·9
	Worthing	2	53	42	bc	bc	5·8
	Littlehampton	2	52	46	b	b.o	6·0
	Bognor						
	Southsea	3	53	37	b	b	6·5
	Bournemouth	3	50	40	b	b.o	5·9
England, S.W.	Weymouth...	1	54	46	b.bc	bc.o	5·0
	Torquay	2	53	46	bc.b.p	b.bc.c.o.p	3·1
	Paignton						
	Penzance						
	Newquay	*	51	45	bc.c	or	1·3
	Ilfracombe						
	Weston-super-Mare ..	3	51	41	bc.b	b.bc.	6·0

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday.	Humidity 9 a.m. To-day.	Sunshine for Yesterday.	Temperature 24 hours ended 9 A.M. To-Day: In Screen Max.	In Screen Min.	Min. on Grass.	Rainfall.	Weather Forenoon.	Weather Afternoon.	Weather Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	67	76	3·7	53	43	38	5	bc	c.bc.p	or.o
City (Bunhill Row)	*	*	2·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	59	78		54	43	38	7	od.bc	bc	er.ue
Camden Sq. (Brit. Rainfall)	-	77	3·6	54	43	38	8	-	-	*
Hampstead (Reservoir) ...	*	85	3·8	51	40	35	10	bc	c.o	o.or.o
Richmond Park ...	*	*	5·2							
Kew. (See front page.)	*	*	5·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	61	76	3·8							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
500 Joules	14·2 Milliwatts.	33 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature In Screen Max.	Temperature In Screen Min.	Temperature Night Min. on Grass.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	8	45	41	37	gr.c.b	bc	cp	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·4	48	41	29	b	bc	c.o.bc	*

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

14th & 15th Feb., 1916.	Sunrise	Noon	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.14 / 7.12	12.7 / 12.7	5.0 / 5.2
Greenwich	7.18 / 7.16	12.14 / 12.14	5.14 / 5.12
Wick	7.50 / 7.48	12.26 / 12.26	5.2 / 5.14
Valencia	8.0 / 7.58	12.55 / 12.55	5.50 / 5.52

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° in many English Districts, but only to 40° in parts of Ireland and Scotland. Rain fell in most places, but bright sunshine was very prevalent in Great Britain.

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

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

Printed at the Meteorological Office, South Kensington, London, S.W. By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 46 { Tuesday, 15th February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	983.3	37	SW	4	c	982.4	+1	37	-3	NW	4	.	c	3	12	41	33	omp	omp	osp	*
	Deerness (Orkney)	983.0	35	SW	6	omps	985.1	*	34	-5	SW	4	SW	bc	4	3	40	34	c.o	ops	oph.bc	0.5
	Stornoway ...	986.5	38	WNW	7	cpsq	985.8	0	33	-4	SW	3	.	c	3	9	39	30	c.os	cspq	cpsq	1.1
	Castlebay (Barra Sd.)	993.0	39	W	8	ohpq	989.5	0	42	+1	WSW	6	SW	cq	6	5	42	33	o.chsq	shpq	hspcq	0.3
	Glasgow ...	997.0	36	W	4	c	992.4	+1	32	-8	W	3	.	bc	*	12	40	32	ors.o	rs.ohp	cspl	0.0
	Eskdalemuir ...	1000.6	32	W	6	o	993.3	-3	32	-7	WSW	6	.	osp	*	8	39	29	orh.or	o.osq	opsbc	0.0
	Malin Head ...																					
	Blacksod Point	1003.5	37	SW	8	omph	998.3	0	39	+6	WNW	8	SW	gomph	5	3	40	32	cmqrs	cmph	ompha	*
	Valencia ...	1010.9	41	S	5	o	1005.7	+2	44	0	WSW	5	.	op	*	17	46	34	cqhs	cqh	osr.bco	2.9
	Roche's Point	1015.0	38	W	2	o	1006.1	*	43	0	W	3	W	c	4	15	44	36	bcpq	bcspq	orc	*
	Birr Castle ...	1009.4	37	WSW	2	c	1001.4	*	39	+3	WSW	1	.	r	*	7	39	33	csq	ashq	opsor	0.0
	Donaghadee ...	1004.0	35	W	5	cmqps	996.2	+2	35	-5	W	4	W	bcml	3	4	41	32	cmq	cmqps	bclps	*
	Liverpool (Bidston)	1008.0	38	WSW	6	bc	997.9	0	36	-5	SSW	2	W	o	2	2	45	32	bcpqs	cpqhs	b.o	1.9
	Holyhead ...	1009.1	40	W	8	bq	999.3	+2	41	-5	W	7	-	oq	6	4	47	36	cp.oph	c.bcq	c.boro	4.7
	Pembroke (St. Ann's)	1014.9	42	W	5	bcq	1003.1	0	45	-3	WNW	6	NW	cqp	6	13	49	40	cpq	cq	ocqp	4.4
	Scilly (St. Mary's)	1019.0	45	WNW	6	cmq	1008.3	+3	47	-2	W	7	.	op	7	5	50	44	cm.bcq	cmq	omrq	2.4
	Falmouth ...	1019.2	44	W	3	b	1008.0	+5	46	-2	W	3	.	c	*	24	50	40	rq.bcq	bcqph	odrqo	2.7
	Jersey (St. Aubin)	1020.3	47	W	6	c	1008.6	*	48	-2	W	7	.	oqp	4	4	52	44	o.c.oq	ocqpc	oqp	2.3
	Portland Bill ...	1016.2	43	WNW	6	bc													c	bc.c		*
	Dungeness ...	1018.3	41	W	5	b	993.5	-10	47	-1	SW	8	W	cq	7	10	50	38	orq	cq.bc.b	bq.r.bc	*
	Dover	1015.0	40	W	4	b	995.5	-2	38	-11	NW	6	NW	b	6	10	50	35	bbc.c	pc.bcb	bbcrb	5.1
	Wick	984.4	35	WSW	4	s	985.9	+1	33	-6	WNW	3	-	s	3	1	40	30	ompq	omsp	ombps	*
	Nairn	988.9	33	W	3	ou	988.1	*	32	-5	W	1	.	cq	2	10	39	30	qpbc	qsu	psc	1.3
	Aberdeen ...	991.4	36	WSW	4	b	987.5	-3	35	-4	WSW	3	.	o	2	1	41	33	oqpcm	bc.bq	bbc.o	1.7
	Leith	995.8	36	SW	3	r	990.5	-1	36	-5	SW	2	SW	c	4	4	42	33	c.ors	mp.oq	rstoc	*
	Tynemouth ...	1000.3	33	NW	4	cqps	992.7	?	35	-3	SW	4	.	omq	3	3	44	32	omrq	cqps	cmq	*
	Spurn Head ...	1005.3	37	W	7	cqp	997.7	-2	35	-4	W	4	.	oq	5	2	43	34	cqtlr	cqp	bcq	2.3
	Yarmouth ...	1009.4	38	WNW	5	bc	996.3	-8	35	-5	ENE	5	N	oms	4	8	49	33	bc	bcpq	b.oms	3.0
	Clacton-on-Sea	1011.3	41	WNW	4	bc	991.9	+2	38	-10	WNW	5	NW	c	4	6	49	34	bc.o	c.bc	c.bor	4.0
	Nottingham ...	1009.4	38	W	6	b	999.7	*	33	-6	SW	2	SW	o	*	5	49	32	cqbsh	opc	b	3.4
	Benson (Oxon.) ...	1014.6	36	W	5	b	1002.6	+17	34	-9	WNW	4	-	o	*	11	47	33	r.c	bcrb	bsq	*
	Sth Farnborough	1015.2	39	W	4	b	1001.1	+14	35	-11	WNW	6	-	o	*	10	50	33	o.c.op	bc.b	bor.o	4.1
	London (Kew Obsy.)	1014.5	41	W	5	b	1000.6	+10	36	-12	WNW	4	-	o	*	10	46	33	oorq.oq	oq.bq.b	borsqo	2.8
NORTHERN EUROPE.	Spitsbergen ...	1000.3	23	SE	6	c	996.3	-2	23	+2	SSE	9	*	o	*	*	23	18				
	Vardö	1003.8	25	S	4	o	1000.2	0	28	+10	SW	5	-	o	3	*	25	12				
	Bodö	996.7	36	E	2	c	992.7	0	28	-2	E	4	-	c	2	-	30	27				
	Christiansund	991.3	39	SW	2	b	984.6	0	39	0	-	0	-	c	3	-	41	37				
	Skudesnaes ..	988.6	36	SSE	7	r	986.9	0	36	-3	WNW	7	-	r	5	14	39	32				
	Færder (Tønsberg Fjord)	998.3	36	SSE	4	o	984.7	0	32	-2	NNE	4	-	s	2	-	36	32				
	The Scaw (Skagen)	1000.2	36	S	4	o	986.4	0	36	+2	WNW	7	W	bc	6	3	37	34				
	Blaavands Huk	997.2	37	SSE	3	r	996.2	0	34	-2	NW	6	-	s	5	2	39	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1004.0	41	W	8	c	997.5	-11	36	-5	S	3	.	o	2	2	46	36				
	C. Gris Nez ...	1013.2	43	W	8	b	991.8	-14	46	-2	W	4	*	o	8	10	48	36				
	La Hève	1019.1	45	WSW	5	o	1001.9	*	47	0	W	9	*	o	9	1	50	43				
	Brest (St Mathieu)	1024.2	48	W	4	o	1013.8	+3	52	+1	W	8	*	f	7	3	52	45				
	Rochefort (Ile d'Aix)	1026.9	50	WSW	4	o	1021.0	-1	51	+1	W	7	*	o	*	4	52	46				
	Biarritz	1031.3	52	W	4	r	1029.8	-2	53	+5	WSW	3	*	o	5	2	55	50				
	Paris	1019.9	45	NW	4	o	1004.4	-14	46	-4	SW	6	-	r	*	7	55	39				
	Belfort	1019.8	43	WSW	7	r	1015.9	*	39	-1	SW	7	*	r	*	5	45	37				
	Lyons	1026.3	48	ESW	2	o	1022.9	*	43	+6	SW	2	*	r	*	2	51	42				
	Nice	1024.3	46	-	0	bc	1018.6	0	42	0	-	0	*	c	2	-	54	39				
	Perpignan ..	1028.3	54	N	2	b	1026.6	-3	52	+6	NW	2	NW	b	*	-	59	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034.0	55	W	5	o	1033.5	-1	50	-2	SE	2	-	b	5	2	57	46				
	Madrid (8 a.m.)	1032.4	50	-	0	b	1037.5	+2	37	+3	-	0	.	b	*	-	50	32				
	Lisbon (9 a.m.)	1034.3	55	N	4	b	1035.7	+1	48	0	N	2	.	b	5	-	57	46				
	Gibraltar	1035.2	51	SE	2	bc	1032.5	*	45	-3	W	3	*	b	1	-	58	43				
	Malta (8 a.m.) ...	*	*	*	*	*	1021.6	+3	52	+2	NNW	3	-	b	2	-	55	50				
	Azores (Horta, 8 a.m.)	1035.3	*	-	0	bc	1026.6	0	56	0	-	0	*	b	2	-	66	55				
	Madeira (Funchal)	1032.6	63	ENE	4	c	1034.0	+1	55	-4	ESE	5	NE	c	5	-	64	55				
YESTERDAY'S REPORTS			Feb. 13th ... 8 P.M. G.M.T.						February 14th, 7 A.M. G.M.T.													
ITALY.	Venice	1027.5	43	-	0	b	1027.7	0	36	0	-	0	*	b	2	-	*	*				
	Turin	1027.8	41	-	0	b	1028.4	0	34	0	-	0	*	o	*	-	*	*				
	Florence	1026.3	45	-	0	b	1027.0	+1	34	0	-	0	*	b	*	-	*	*				
	Pesaro	1027.4	36	SW	3	b	1027.7	+1	39	+7	W	3	*	b	3	-	*	*				
	Leghorn	1026.6	46	-	0	b	1027.5	+2	37	-2	-	0	*	b	1	.	*	*				
	Rome	1025.6	45	NE	4	bc	1026.0	-1	39	+3	N	4	*	b	-	.	*	*				
	Brindisi	1024.9	50	NNE	4	b	1025.6	0	50	+7	NNE	4	*	bc	4	.	*	*				
	Cagliari	1024.6	54	SSW	4	o	1026.6	0	46	-2	NE	4	*	b	3	2	*	*				
	Palermo	1023.0	50	E	3	o	1024.0	0	46	+1	-	0	*	o	5	10	*	*				

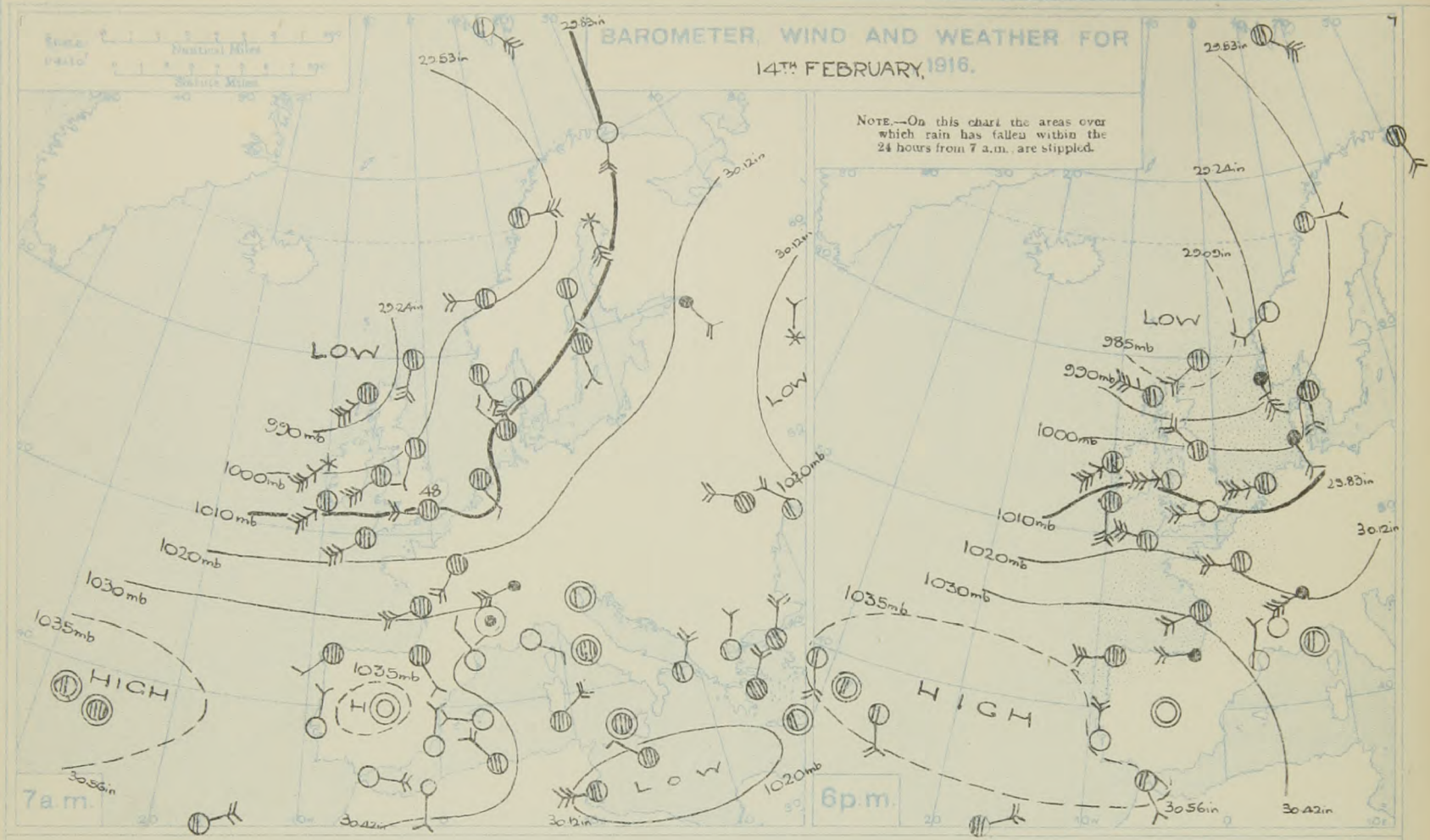
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7.51 a.m.

400 metres. N.W. by W. 3.5 m.p.h.

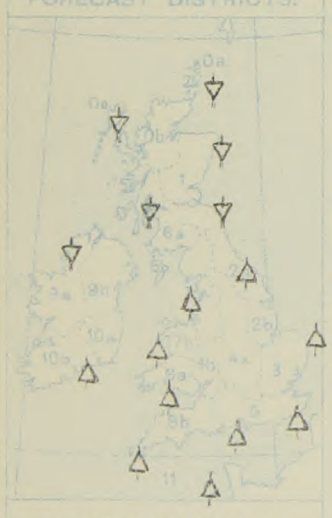
GALES
Duration and Extreme Force in British Islands

Castlebay: 14th
W.8 11 am to 7 a.m
W.9 at 2 p.m.
Eskdalemuir: 14th
W.S.W.8 at noon
Gust. W.N.W. 25 m.p.s
Malin Head: 14th
W.N.W.9 at 1 p.m
Blacksod Point: 14th & 15th
W.N.W.9 at 1 p.m. S.W.8 at 6 p.m
S.W.8 at 1 a.m. W.N.W.8 at 7 a.m
Valencia: 14th
W.S.W.8 5 a.m to 9 a.m.
Southport: 14th
Squalls. W.8 at 11 a.m. noon, & 2 p.m to 8 p.m.
Gust W. 30 m.p.s
Holyhead: 14th
W.N.W.9 at 1 p.m.
Squalls force 10. W.8 at 6 p.m.
Pembroke: 14th
W.8 9 a.m to noon.
Scilly: 14th & 15th
W.N.W.8 9 a.m to 3 p.m
W.10 at 9 a.m. W.N.W.9 at 1 p.m
W.8 10 p.m to 6 a.m.
Falmouth: 14th & 15th
W.8. 10 p.m to 3 a.m.
Jersey: 15th
Gusts W.8 & 9 early morn.
Portland: 15th
S.W.8 midnight to 1 a.m.
Dungeness. 15th
S.W.9 @ 4 a.m. S.W.8 @ 7 a.m
Aberdeen. 14th
S.18 m.p.s @ 8 a.m. W.24 m.p.s @ 3 p.m
Spurn Head: 14th
Gust 25 m.p.s @ noon.
Nottingham: 14th
W.9 at 1 p.m.
Kew: 14th & 15th
Gusts. 22 m.p.s @ 12.25 p.m
W.N.W.8 @ 5.30 a.m & 5 p.m.

* 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.



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.

South Cone hoisted in Districts 0, 1, 6, 8, 9, at 9 a.m.
North Cone hoisted in Districts 2, 3, 5, 7, 8, 10, 11, at 2.45 p.m.

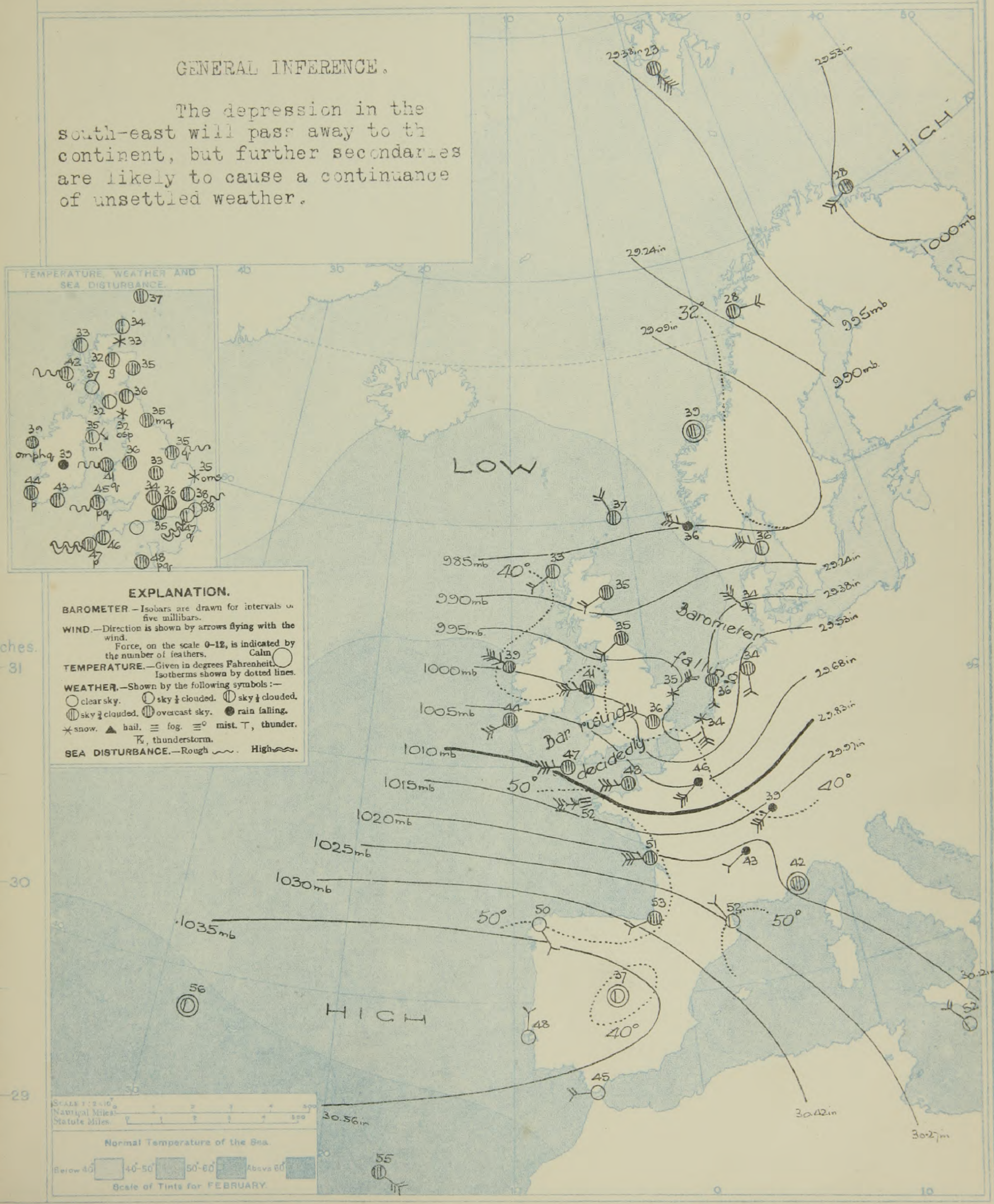
0 a, b, 1, 2 a, b	Fresh winds between South-West and West; snow and hail showers, fair intervals; cold.
3, 4 a, b	Fresh winds between South-West and North-West; fair, some showers; becoming rather milder.
5	Strong or high South-Westerly or Westerly winds, moderating somewhat; fair, some showers, milder.
6 a, b, 7 a, b	Same as Nos. 0 to 2.
8 a, b	Strong winds between West and South-West, moderating later; cloudy, showery, temperature normal.
9 a, b, 10 a, b	Same as Nos. 0 to 2.
Western Channel and Bay 11	Westerly gales, some decrease later, sea high to rough; dull, showery, some fog.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 15TH FEBRUARY, 1916.



Issue No. 19,808.

DAILY WEATHER REPORT.

Tuesday, 15th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	13th at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	14th at 7 A.M. Local Time: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1012.9	23	S	3	c	1009.1	-3	27	+9	SSE	5	*	0	*	?	*	*
Helsingfors ...	1020.7	28	SSW	3	c	1017.3	-2	27	+9	SSW	4	*	0	0	Trace	*	*
Hangö	1019.5	30	SSW	5	0	1016.7	-3	30	+2	SSW	8	*	5	0	-	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1024.7	19	W	2	0	1023.0	-1	21	-2	SSE	3	-	0	*	-	23	18
Moscow	1019.0	25	ENE	2	0	1018.3	0	25	-3	NNE	2	*	5	*	3	*	23
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	1012.2	32	ENE	1	0	1014.7	+1	28	-4	NNW	2	*	5	*	-	*	*
Kishinev	1025.2	32	SW	4	0	1027.3	0	28	-2	NW	4	*	0	*	1	*	27
Elisabetgrad ...	1016.6	30	WNW	5	0	1021.1	+2	27	-5	NW	4	*	0	*	5	*	25
Nicolaiev	1021.2	30	NW	6	c	1024.0	*	30	-5	NW	5	*	0	0	-	*	28
Odessa	1023.5	32	N	5	0	1025.6	+2	27	-5	NNW	3	*	bc	0	-	*	25

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	6	43	35	ps	cu	0.2
	Banff	-	40	33	bc	bc ps c	0.7
	St. Andrews	3	41	32	*	*	1.1
Eng. N.E.	Harrogate	3	44	33	o.c.bcq	cq.c.bc	1.6
	Skegness	2	49	36	bcu	bcu pc	5.2
Eng. N.W.	Morecambe	3	44	35	r.bchr	hs r c	2.1
	Blackpool						
	Southport	2	49	35	c.ohq	chsq.c	1.5
Midlands	Buxton						
	Leamington Spa	6	48	38	bc.ch	bc.ch	4.6
	Malvern	7	47	37	q	q	5.4
	Ross-on-Wye	11	46	35			5.6
Wales.	Rhyl	4	47	35	q	q	2.4
	Colwyn Bay	5	45	34	bc h	ph sb	2.5
	Llandudno	2	48	34	cs	c.b	2.4
	Aberystwyth	6	45	40	r.o.c	c.bc	3.0
	Tenby	4	44	41	bc	h.bc	4.8
England, E.	Lowestoft	5	50	38	c.opqc	c.oq.bc	3.7
	Felixstowe	11	50	41	bc	bcqph	4.4
	Walton-on-Naze	11	49	39	bc.cp.b	bc.b	4.5
	Southend-on-Sea	6	50	42	o.bcqp	q.bc.b	2.6
England, S.E.	Margate	6	54	43			2.8
	Ramsgate	4	57	42	bc.rc	bc	4.5
	Hastings	3	51	41	or.bc.b	or.b	4.2
	Eastbourne	5	51	42	bc	bcqp	4.4
	Seaford	3	49	41	bc r	b	4.4
	Brighton	10	49	45	o.c.or.o	o.c.bc.b	4.:
	Worthing	6	50	41	bcr	bc.b	4.1
	Littlehampton	5	49	40	b.bc	bc.b	3.7
	Bognor	8	50	40	r.bcp	o.bc	4.0
	Southsea	7	51	41	bc	bc	4.2
	Bournemouth	6	50	40	r.c	c	3.4
England, S.W.	Weymouth	6	50	41	cp	bcz	2.7
	Torquay	8	51	42	o.c	bc.b	2.8
	Paignton	10	50	41	p.bc	hp	2.3
	Penzance	5	49	44	or.c.b	c	3.4
	Newquay	*	48	42	o.cp	cphq	3.0
	Ilfracombe	15	49	39	cp.bc	bc	2.6
	Weston-super-Mare ...	17	47	37	rq.bv	b.bc	4.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.) ...	55	89	2.8	50	33	30	9	bc or	bc	ors
City (Bunhill Row)	*	*	2.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	57	87	2.9	52	33	32	8	or	bc	osh.o
Camden Sq. (Brit. Rainfall)	54	89	2.9	50	33	30	9	o.oh	op.c	*
Hampstead (Reservoir) ...	*	87	2.9	48	31	25	10	bc.rh	bx	os
Richmond Park ...	*	*	2.5							
Kew. (See front page.)	*	*	2.8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	54	89	2.5							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
420 Joules	11.8 Milliwatts.	38 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain Fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	5	39	36	34	qr.cp	pqs	pqs.b	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	3	50	40	42	or.c	c.or.bc	bc	3.2
Plymouth ,,								
S. Kensington (Museum Grounds 10 p.m.)	8	52	41	38	or.c	c.opq	bcq.bq	*

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

15th & 16th Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7 . 12 7 . 10	12 . 7 12 . 7	5 . 2 5 . 4
Greenwich	7 . 16 7 . 15	12 . 14 12 . 14	5 . 12 5 . 13
Wick	7 . 48 7 . 46	12 . 26 12 . 26	5 . 4 5 . 6
Valencia	7 . 58 7 . 57	12 . 55 12 . 58	5 . 52 5 . 53

NOTES ON YESTERDAY'S WEATHER.

Snow and hail showers occurred over most of the country but there were considerable bright intervals in many places. Minima near the freezing point were recorded in nearly all parts. Gales were general in the south and 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; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 47 { Wednesday, 16th February.

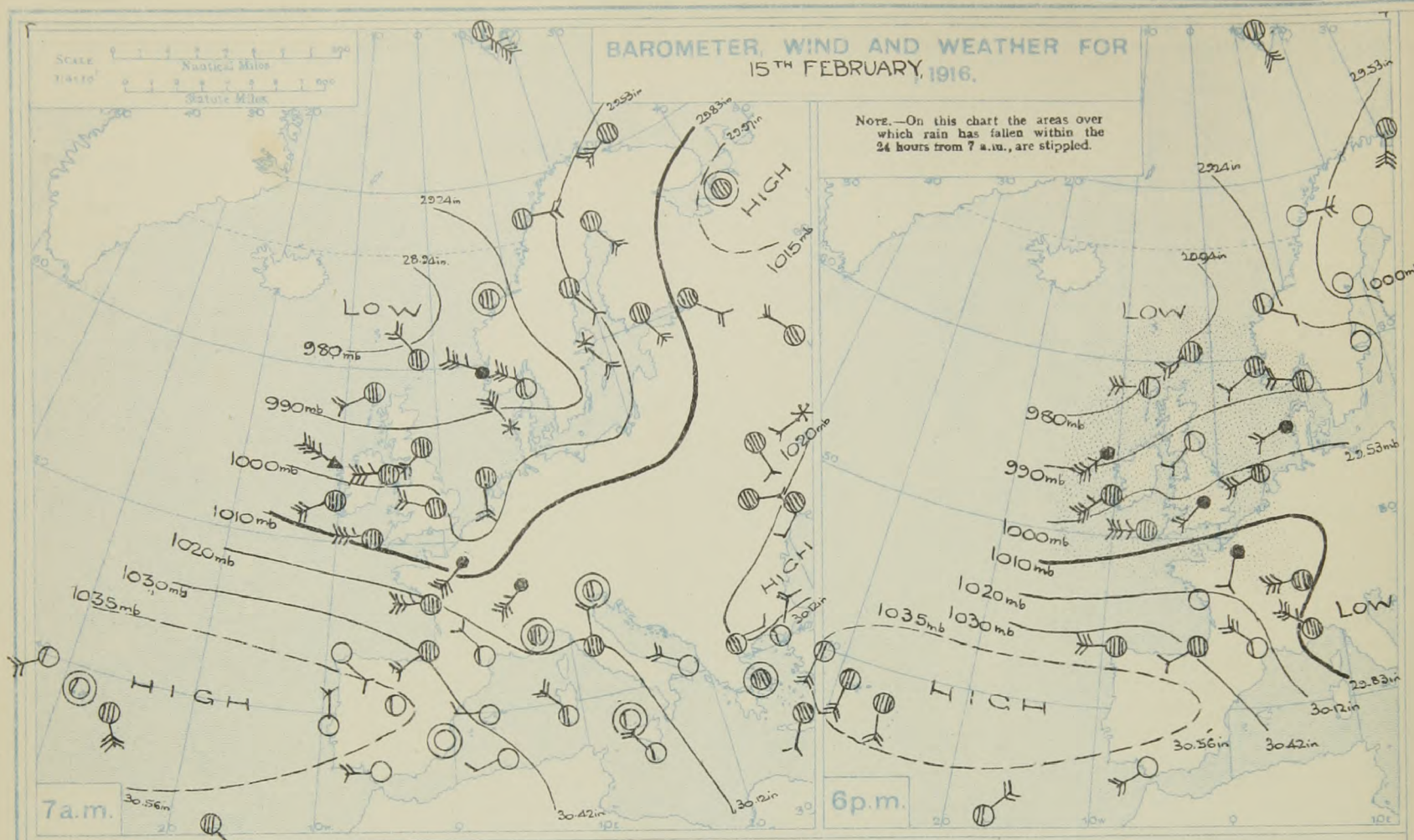
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	981·0	39	SW	4	om	971·5	‡ -3	33	-4	NW	2	W	bc	2	7	40	31	bc	omsp	bcx	*
	Deerness (Orkney)	979·0	35	SW	6	rup	968·1	*	35	+1	N	5	-	o	4	9	38	34	bc.os	s.oq	oc	0·5
	Stornoway ...	982·7	36	W	5	bcphq	970·6	+2	35	+2	NNE	4	-	bc	4	4	39	33	c.opsqpl	cphq	c.obcps	1·6
	Castlebay (Barra Isd.)	985·6	41	W	3	o	973·2	+1·3	36	-6	N	4	-	o	5	17	43	33	cqbch	hpbc.o	oc o	3·3
	Glasgow ...	989·9	37	SW	3	omq	963·6	-1·5	38	+6	SW	7	-	o	*	7	42	31	bc.csp	c.op	rsoqp	3·1
	Eskdalemuir ...	992·2	36	SW	5	oc	971·7	-6	36	+4	WSW	8	-	o	*	13	42	30	bcbbc	o.oc	oc.od	3·4
	Malin Head ...	985·3	37	SW	6	omqp	971·8	+2	39	-1	W	9	-	omqr	8	13	45	33	rcq	omqp	oqp	0·9
	Blacksod Point	986·2	49	SW	8	omr	983·4	0	35	-4	W	9	W	omqph	7	14	52	35	omp	omr	omqr	*
	Valencia ...	998·8	53	SW	7	o	998·1	+8	41	-3	W	8	-	o	6	4	53	39	op	oq	o	0·0
	Roche's Point	1000·8	52	W	5	o	995·6	*	41	-2	WNW	4	NW	c	4	1	53	41	odm	od.om	op.ocp	*
	Birr Castle ...	993·0	51	WSW	4	r	989·5	*	40	+1	W	6	-	o	*	18	51	38	oc	oc	oc.oq	0·0
	Donaghadee ...	991·9	38	SW	3	omd	976·3	+2	39	+4	W	8	W	bcmq	6	11	48	33	cgm	cgm	bcmpq	*
	Liverpool (Bidston)	996·4	40	S	3	r	982·0	+1	45	+9	WSW	7	W	oq	6	8	53	36	c.o	oc.q	bc.oq	0·5
	Holyhead ...	993·8	44	SW	4	ocm	985·8	+1	44	+3	W	8	NW	o	7	5	52	38	oc.bc.o	o.ocm	oc.omr	1·1
	Pembroke (St. Ann's)	999·6	50	WSW	7	oq	990·8	0	48	+3	WSW	8	W	cq	7	3	53	45	oqp	grs	oqp	1·0
	Scilly (St. Mary's)	1007·9	51	W	8	omd	998·8	-3	50	+3	W	8	W	omq	7	6	52	46	omr	omd	omd.rq	0·0
	Falmouth ...	1007·8	51	WSW	8	oq	998·5	-3	50	+4	SW	8	-	rq	*	8	52	45	oc.od	oc.oq	rq	0·0
	Jersey (St. Aubin)	1011·3	52	W	6	oqp	1004·1	*	52	+4	W	8	-	oq	5	1	52	47	oqp	oqp	oqp	0·0
	Portland Bill ...	1004·0	50	WSW	7	oc	995·2	-6	50	+7	WSW	8	SW	od	7	1	50	43	cqp	o	od	*
	Dungeness ...	1005·1	46	W	4	oc	993·5	-5	49	+2	SW	8	-	oq	7	3	49	41	qbc	bc.oc	orq	*
	Dover	1063·2	45	SW	4	r	993·3	-4	50	+12	SW	8	SW	o	6	3	50	38	bq	b.bc.oc	pr.o	5·9
	Wick	981·6	35	WSW	4	s	967·2	-9	38	+5	NNW	3	-	o	3	2	39	34	psc	cp.os	bcomq	*
	Nairn	985·0	35	W	1	rsq	966·1	*	36	+4	ENE	6	-	sq	5	11	38	30	bc.c	qpsx	mscc	7·6
	Aberdeen ...	986·5	37	SW	5	b	963·1	-1·0	34	-1	WNW	2	-	os	2	6	44	34	osp.b	bcb	bocos	6·8
	Leith	989·7	38	SW	3	o	966·7	-5	40	+4	SW	6	SW	c	5	2	44	33	c.bc	c.bc.o	oqpo	*
	Tynemouth ...	994·7	40	SSW	2	bm	974·4	-4	42	+7	W	5	W	bcmqp	4	5	46	35	bcm	bcm	cmqp	*
	Spurn Head ...	998·5	42	W	5	bc	980·0	-3	47	+12	WNW	9	-	bcqp	7	6	51	34	bcq	bc.o	oc	3·7
	Yarmouth ...	1002·2	40	W	3	o	985·0	-9	54	+19	W	8	-	cq	6	6	54	34	oms.bc	bc.o	occq	3·1
	Clacton-on-Sea	1006·2	44	W	2	o	989·0	-8	51	+13	WSW	6	W	o	5	5	52	34	c.bcc	c.bcoq	ogrq	3·2
	Nottingham ...	999·3	40	SW	3	r	984·0	*	48	+15	W	7	W	c	*	6	52	32	osc.b	bc.oc	r.o	4·6
	Benson (Oxon.) ...	1001·6	44	S	4	r	990·2	-4	52	+18	SSW	7	-	r	*	3	53	34	b	oc	oc	*
	Sth Farnborough	1002·5	45	SW	4	r	991·8	-7	51	+16	SW	8	-	o	*	1	52	35	o.bc.b.bc	bc.odr.	or.o	5·9
	London (Kew Obsy.)	1002·8	45	SW	3	bmr	990·7	-6	52	+16	SW	6	-	oq	*	3	53	35	o.bc	bc.comr	omr.oq	4·7
NORTHERN EUROPE.	Spitsbergen ...	995·4	23	SSE	6	o	994·6	0	23	0	S	6	*	o	*	*	23	21				
	Vardö	1002·9	28	SSW	5	o	1001·5	0	23	-3	SW	2	-	o	2	*	28	23				
	Bodö	993·2	32	E	4	b	990·1	-1	27	-1	E	4	-	b	2	-	34	27				
	Christiansund	989·5	37	ESE	1	bc	979·3	-5	36	-8	SE	1	-	b	3	-	41	34				
	Skudesnaes ..	987·8	36	SW	2	o	976·3	-8	34	-2	SSE	7	-	r	5	4	41	32				
	Færder (Christiania Fjord)	988·3	34	WNW	2	o	985·2	-3	28	-4	ENE	2	-	o	3	3	34	28				
	The Scaw (Skagen)	988·6	37	WNW	4	c	985·2	-4	34	-2	SW	2	-	bc	2	2	39	32				
	Blaavands Huk	995·1	39	WSW	3	c	992·6	?	36	+2	SSE	5	-	r	4	1	39	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1001·6	41	WSW	5	c	985·0	-7	48	+12	SW	8	-	o	6	4	48	34				
	C. Gris Nez ...	1011·7	46	SW	5	r	994·4	-7	49	+3	SW	8	*	o	8	5	48	45				
	La Hève	1008·2	46	W	7	f	1004·6	*	47	0	WSW	8	*	o	8	4	50	45				
	Brest (St. Mathieu)	1016·3	52	W	7	o	1009·1	-5	53	+1	WSW	6	*	m	7	1	54	50				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1029·1	55	WSW	3	o	1027·3	-1	52	-1	SW	3	*	bc	6	-	59	52				
	Paris	1011·3	46	S	2	r	1007·1	-2	52	+6	SW	4	-	o	*	3	52	45				
	Belfort	1014·4	41	W	6	o	1011·8	*	45	+6	WSW	8	*	r	*	7	45	39				
	Lyons	1017·5	53	WNW	7	o	1020·3	*	50	+7	-	0	*	o	*	1	53	43				
	Nice	1009·2	52	NW	7	o	1011·5	+1	46	+4	-	0	*	o	4	-	61	42				
	Perpignan ..	1022·7	57	NW	5	b	1022·4	-1	55	+3	NW	7	-	o	*	-	68	52				
	Sanguinaire ...	*	55	NW	6	m	*	*	52	-	NW	6	*	m	7	-	59	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034·6	57	W	5	o	1031·5	-2	54	+4	SW	4	-	o	5	?	57	48				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1032·5	53	SW	4	b	1030·5	*	46	+1	W	3	*	b	2	-	63	43				
	Malta (8 a.m.) ...	*	*	*	*	*	1016·2	0	55	+3	NW	5	-	o	4	-	55	52				
	Azores (Horta, 8 a.m.)	1035·4	*	S	5	c							*									
	Madeira (Funchal)	1033·3	61	NNE	4	bc	1033·7	0	54	-1	ENE	3	NE	bc	3	-	61	54				
YESTERDAY'S REPORTS.		FEB. 14TH, 8 P.M. G.M.T.					FEB. 15TH ....., 7 A.M. G.M.T.															
ITALY.	Venice	1022·4	45	-	0	bc	1016·7	+2	36	0	-	0	*	bc	2	-	*	*				
	Turin	1022·6	39	-	0	o	1017·3	-7	32	-2	-	0	*	o	*	-	*	*				
	Florence	1023·4	43	-	0	b	1018·9	-1	37	+3	-	0	*	o	*	-	*	*				
	Pesaro	1023·0	37	SW	1	b	1017·4	-2	37	-2	SW	1	*	c	2	-	*	*				
	Leghorn	1025·0	48	-	0	b	1019·9	-3	46	+9	-	0	*	o	3	-	*	*				
	Rome	1023·3	46	N	2	bc	1020·6	-2	37	-2	N	2	*	b	*	-	*	*				
	Brindisi	1021·0	46	N	4	b	1018·7	-5	41	-9	NW	4	*	b	3	-	*	*				
	Cagliari	1023·7	52	NW	4	b	1023·4	0	45	-1	NW	4	*	bc	3	-	*	*				
	Palermo	1022·0	50	-	0	o	1022·7	+1	46	0	-	0	*	b	4	2	*	*				

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

GALES.
Duration and Extreme Force in British Islands.

Eskdalemuir: 16th
S.W. 8. 4 am. to 7 am. Gust. 29 m/s.
Malin Hd. 15th & 16th
W. 8. 11 pm to 7 am. W. 10 at 5 am.
Blacksod: 15th – 16th
SW 8 7 am to 9 am W/S W. 8, 6 pm to 7 am W.S.W. 9 @ 1 am. W.S.W. 11 9 pm to 1 am
Valencia: 15th & 16th
S.W. 8 11 pm to 7 am
Donaghadee: 16th
S.W. 8 3 am to 7 am.
Southport: 16th
W.S.W. 8 midnight to 7 am Gust 35 m/s
Liverpool: 16th
W.S.W. 8 2 am to 6 am.
Pembroke: 15th & 16th
W.S.W. 8 10 pm to 7 am.
Scilly: 15th & 16th
W. 8. 11 am to 7 a.m. W. 24 m/s. @ 6 am
Falmouth: 16th. S.W. 8 all night.
Jersey: 16th W. 8 early morning
Portland: 15th & 16th.
S.W. 8 7 am to 8 am
W.S.W. 8. 10 pm to 7 am. W.S.W. 9 m/s gusts
Dungeness: 15th & 16th
S.W. 8 7 am to 9 am. S.W. 8 3 am to 7 am
Dover: 16th
S.W. 8. 3 am to 7 am. S.W. 11 @ 6 am
Spurn Head: 16th
W.N.W. 9 5 am to 7 am.
Yarmouth: 16th.
W. 8. 6 am to 7 am.
South Farnborough: 16th.
S.W. 8 at 7 a.m.
Kew: 16th.
Gust. S.W. 10 at 6.40 a.m.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

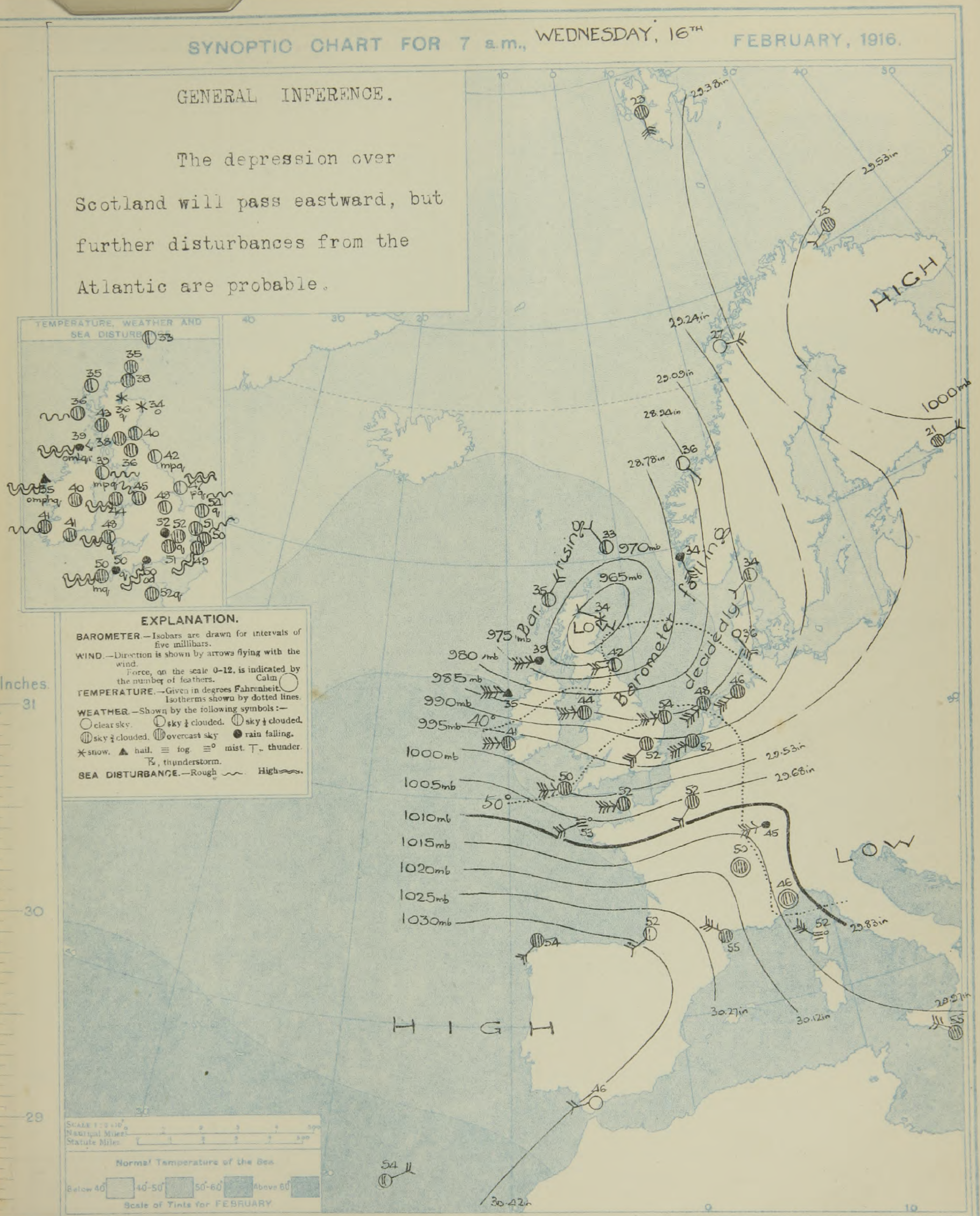
South Cone hoisted yesterday at 7.15 p.m. in Dists. 7, 8, 9 & 10; elsewhere at 8 a.m. to-day

0 a, b, 1	Fresh Northerly winds, increasing to a gale and then decreasing again and backing by to-morrow; some snow showers; cold.
2 a, b, 3, 4 a, b, 5, 6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b	Gales from between West and North-West, moderating somewhat by to-morrow; some rain and snow showers, fair intervals; cool.
Western Channel and Bay 11	Westerly gales, moderating later; high sea; showery, fair intervals.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 16TH FEBRUARY, 1916.



Issue No. 19,309

DAILY WEATHER REPORT.

Wednesday, 16th February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	14th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	15th. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	°F.								
Archangel	1018·9	16	S	3	o	1016·9	-1	16		–	0	*	o	o	–	*	.
Uleaborg	1006·7	28	S	4	o	1005·9	0	19	-8	SE	4	*	o	*	–	*	*
Helsingfors ...	1012·3	23	SSE	2	S	1005·3	-4	21	-6	ESE	2	*	o	o	?	*	*
Hangö	1010·0	28	SW	7	S	1003·0	-5	27	-3	SSE	4	*	o	o	3	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1018·4	18	S	3	S	1011·7	-4	18	-3	SE	3	–	o	*	–	19	16
Moscow	1016·2	23	NNW	2	r	1012·9	-1	23	-2	NW	3	*	o	*	–	*	23
Kiev	1022·9	19	WNW	1	o	1016·4	-4	14	.	S	2	*	o	*	–	*	12
Kharkov	1018·4	28	NW	1	o	1018·4	-1	25	-3	W	2	*	S	*	5	*	*
Kishinev	1025·2	27	E	1	b	1018·6	-5	27	-1	SE	2	*	o	*	–	*	21
Elisabetgrad ...	1023·4	23	NW	3	o	1019·9	-3	21	-6	SSW	2	*	o	*	–	*	18
Nicolaiev	1024·8	28	NW	3	o	1020·4	*	25	-5	SW	2	*	o	o	–	*	21
Odessa	1025·3	28	N	2	b	1019·4	-4	32	+5	SSW	3	*	o	o	–	*	25

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	5	43	33	ph	c	1·6
	Banff	–	42	33	bc.b	b.bc	7·0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	0·4	42	31	bc.c.bc	b.bc.op	4·8
	Skegness	1	44	33	o.bc	bc.o	3·0
Eng. N.W.	Morecambe	1	44	33	bc	c.or	4·1
	Blackpool						
	Southport	2.	43	32	c.bc.c.o	or	1·5
Midlands.	Buxton	2	38	30	c	c	0·6
	Leamington Spa	10	43	32	s.c.bc	bc.od	3·7
	Malvern						
	Ross-on-Wye	9	46	32	os.bc	or	2·6
Wales.	Rhyl	1	45	33			0·3
	Colwyn Bay	3	44	34	bc	bcp	0·7
	Llandudno	2.	43	34	c.cp	p.	0·7
	Aberystwyth	4	45	36	r.o	or.	0·0
	Tenby	8	50	35	bc.o	r	1·5

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	10	42	33	c.og.s.c	c.bc.c	3·3
	Felixstowe	7	45	33	o.bc	bc.or	3·8
	Walton-on-Naze	4	45	33	bc	b.bc.or	3·3
	Southend-on-Sea	2	48	34	o.c.bc.b	b.bc.c.o	4·8
England, S.E.	Margate	9	48	34	c.o.bc	bc.c	2·8
	Ramsgate	11	47	34	c	bc	4·0
	Hastings	10	49	37	b.or.b	b.bc.or	5·8
	Eastbourne	6	49	38	bc.b.o.b	b.odq	5·0
	Seaford	0·4	49	34	bc	bc.or	4·6
	Brighton	19	48	42	bc	bc.o.or	4·6
	Worthing	18	49	36	b.bc	c.od	4·4
	Littlehampton	18	50	40	b	b.bc.od	4·5
	Bognor	24	50	37	bc	bc	5·1
	Southsea	13	52	37	bc	od	3·5
	Bournemouth	13	50	37	c.	c.or	2·3
England, S.W.	Weymouth	11	53	39	bcp	p.c	2·5
	Torquay	13	53	40	bcp.	bc.c.bp	2·3
	Paignton	14	53	39	bc	op	0·0
	Penzance	11	52	43	or	or	0·0
	Newquay	*	51	41	c.or	od.r	0·0
	Ilfracombe	19	51	40	o	or	0·0
	Weston-super-Mare ...	7	50	34	bc.b.	b.bc.b.	3·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 A.M. To-day.)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm §			
Greenwich (Royal Obsy.) ...	66	78	3·2	53	36	35	6	bc c	o.or	or g.o
City (Bunhill Row)	*	*	3·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	65	69	3·3	54	36	37	5	bc	bc.ru	ue.
Camden Sq. (Brit. Rainfall)	65	64	4·2	53	35	41	6	c.bc	bc or	*
Hampstead (Reservoir) ...	*	98	4·3	51	47	40	7	bc	bc or	or.o
Richmond Park ...	*	*	4·3							
Kew. (See front page.)	*	*	4·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	65	67	4·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
558 Joules	15·6 Milliwatts.	37 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2.	44	35	32	op.c.	o.cp	or	*
Darwen to 9 p.m.	7	39	31	29	cus	c.b	or	0·4
Manchester ,,				*				
Birmingham ,,				*				
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	12.	53	40	32	bc.b.or	bc	od.bc.c	1·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	8	50	33	29	oc.o	c.bc	c.or	*

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

16th & 17th Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·18 / 7·8	12·7 / 12·7	5·4 / 5·6
Greenwich	7·15 / 7·13	12·14 / 12·14	5·13 / 5·15
Wick	7·46 / 7·44	12·26 / 12·26	5·6 / 5·8
Valencia	7·57 / 7·55	12·56 / 12·58	5·53 / 5·55

NOTES ON YESTERDAY'S WEATHER.

Westerly gales occurred during the night in almost all parts. Rain fell generally, up to 18 mm. at Birr Castle. There were several hours of bright sunshine in the east and south-east of the country, little elsewhere.

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

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Printed at the Meteorological Office, South Kensington, London, S.W. By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 48 { Thursday 17th February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer Millibars at M.S.L.	Change in 3 hours.‡	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick	974.2	36	NW	3	bc	980.7	+5	38	+5	NW	5	NW	bcq	4	4	39	31	bc	bc	bcspq	*
	Deerness (Orkney)	980.3	34	WNW	4	bc	984.4	*	37	+2	WNW	5	NW	bcq	4	2	38	35	oc.bc	bcpsh	bc	3.4
	Stornoway	981.0	34	W	4	o	990.3	+4	38	+3	NW	5	-	cq	4	4	39	33	c.opsq	ops	bc.cpsq	1.1
	Castlebay (Barra Isd.)	984.3	36	W	4	oshp	995.3	+4	42	+6	W	6	W	c	6	4	42	33	oshp	shp	shpoc	0.2
	Glasgow	985.2	34	W	3	omu	995.2	+4	35	-3	W	2	NW	osp	*	2	40	31	ocrsp	oshpm	sp.c.bc	1.3
	Eskdalemuir	987.4	22	WSW	7	oqs	995.4	+5	34	-2	W	5	-	c	*	3	37	31	ors.bc	cr.ogs	os.bc.c	1.8
	Malin Head	986.5	39	WNW	8	cq	998.0	+4	42	+3	NW	8	NW	cq	8	22	40	34	oqmps	cq.ps	cqph	2.1
	Blacksod Point	994.2	42	WNW	9	cqphl	1005.8	+4	38	+3	NW	8	NW	omqp	7	3	42	35	cqphl	cqph	cmqph	*
	Valencia	1005.4	43	W	7	c	1012.1	+3	44	+3	W	6	NW	c	*	7	44	35	cqh	bcqh	cp	3.1
	Roche's Point	1003.8	41	W	4	c	1011.1	*	39	-2	WNW	3	NW	c	3	4	42	36	cspq	cspq	b.bc.c	*
	Birr Castle	997.9	39	W	5	c	1007.4	*	37	-3	W	1	-	o	*	4	46	34	cpshq	cpsq	cphq.o	0.0
	Donaghadee	989.4	36	WNW	6	cmq	999.3	+4	37	-2	W	5	W	cmqps	4	5	41	33	cmps	cmps	cmqps	*
	Liverpool (Bidston)	992.1	40	WSW	7	c	1000.0	+7	41	-4	WSW	6	W	oq	7	2	47	34	oq	oqhsl	cqht	0.2
	Holyhead	994.6	40	WSW	8	cqg	1002.8	+5	41	-3	WNW	8	NW	bq	7	0.2	44	39	ocph.c	c.bcq	c.op.bc	0.0
	Pembroke (St. Ann's)	1000.7	43	W	7	cq	1007.2	+5	43	-5	W	5	W	bcq	6	-	45	30	cq	cq	bcq	5.2
	Scilly (St. Mary's)	1008.3	45	WNW	8	cqp	1002.7	+2	44	-6	WNW	8	W	cqph	8	22	50	38	om.cqp	bc.cqh	cqph	4.8
	Falmouth	1007.6	53	W	8	cphq	1011.1	+3	42	-8	WNW	4	-	bc	*	4	51	37	dqpq	phq.bc	phq.co	4.9
	Jersey (St. Aubin)	1008.4	44	W	6	bc	1010.3	*	45	-7	WNW	5	NW	b	4	4	52	41	oqrc.o	oqh.bc	o.b	1.8
	Portland Bill	1002.9	44	W	8	bcq	1005.3	+8	43	-7	WNW	7	W	bcq	6	1	50	41	cqp	bcq	bcqp	*
	Dungeness	999.1	42	W	6	b	?999.9	+3	39	-10	W	5	W	b	5	4	50	39	orq.bc	bc.b	b.bc	*
	Dover	990.0	40	SW	5	b	1002.0	+3	39	-11	WNW	5	NW	bc	6	1	51	36	oph.bc	b	b.bc	4.6
	Wick	978.3	35	WNW	3	o	986.6	+3	35	-3	WNW	3	-	c	3	1	41	32	o.bcph	b.cmph	bcphs	*
	Nairn	981.0	34	W	2	og	990.1	*	33	-3	W	1	-	cg	2	4	38	31	psq.bc	bc.c	ps.c	3.2
	Aberdeen	979.1	35	WNW	6	bq	989.1	+6	36	+2	W	4	-	b	2	7	38	33	ohcq	bcq.b	bcq	2.1
	Leith	983.6	36	W	3	c	992.7	+3	35	-5	W	2	W	c	4	2	41	34	crq.o	oq.o.c	c.o.c	*
	Tynemouth	984.2	37	NW	5	cmq	993.9	+6	36	-6	NW	3	NW	bcm	4	-	42	34	cmgp	cmg	cm	*
	Spurn Head	987.1	40	WNW	8	bcq	994.6	+2	37	-10	WNW	7	-	bcqp	6	1	47	36	o.cq	bcq	bcqp	1.6
	Yarmouth	991.8	40	WNW	8	bc	996.3	+6	37	-17	WNW	5	-	bcq	3	3	54	35	bcqp	bcqp	bcqp	3.3
	Clacton-on-Sea	995.8	41	W	5	bc	999.0	+3	39	-12	WNW	4	NW	bc	4	3	52	41	ogr.bc	bcq	bc.b.bc	4.1
	Nottingham	993.7	39	W	5	b	999.4	*	38	-10	W	4	W	c	*	5	48	35	cphq	chstl	b.bcp	1.4
	Benson (Oxon.)	999.2	38	W	6	c	1003.2	+4	37	-15	W	5	-	b	*	1	53	35	pq	b.bc	b	*
	Sth Farnborough	1000.4	39	W	5	b	1003.6	+5	38	-12	W	4	-	b	*	3	51	35	r.opq	bc.b	b.p.b	5.2
	London (Kew Obsy.)	999.7	40	W	5	b	1002.9	+7	39	-13	WNW	5	-	b	*	2	52	38	o.orq	oq.cq.bcq.b	bv.bc.b	5.2
NORTHERN EUROPE.	Spitsbergen												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund																					
	Skudesnaes																					
	Færder (Xiania Fjord)																					
	The Scaw (Skagen)	964.0	36	SSW	5	o	973.6	+6	30	-4	NE	5	-	s	5	3	27	30				
	Blaavands Huk	959.4	39	WSW	10	r	978.4	+5	36	0	NW	6	-	o	?	4	43	32				
	Haparanda														*							
	Hernösand														*							
	Stockholm														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder	985.3	39	W	9	r	991.5	+3	39	-8	WNW	7	-	c	6	3	48	36				
	C. Gris Nez	998.0	44	WNW	9	b	1000.4	-4	42	-7	W	8	*	b	8	5	50	41				
	La Hève	1008.6	43	NW	8	bc	1005.0	*	44	-3	WNW	7	*	o	8	3	48	39				
	Brest (St. Mathieu)	1013.0	50	WNW	7	c	1015.7	+3	45	-8	NW	6	*	c	5	3	52	43				
	Rochefort (Ile d'Aix)	1016.2	50	W	8	o	1018.0	0	44	.	NW	8	*	o	*	4	54	43				
	Biarritz	1024.7	55	WNW	3	c	1024.2	+3	50	-2	WNW	4	*	r	6	12	57	39				
	Paris	1006.6	43	W	5	b	1008.0	+1	39	-13	WSW	3	.	b	*	4	54	37				
	Belfort	1002.9	48	WSW	8	r	1009.7	*	37	-8	WSW	7	*	o	*	4	49	34				
	Lyons	1012.7	55	SSW	4	o	1016.3	*	39	-11	W	2	*	c	*	1	62	38				
	Nice	1010.4	46	-	0	b	1005.2	-3	49	+3	W	7	*	b	6	-	59	45				
	Perpignan	1020.3	59	NW	2	b	1017.0	+2	50	-5	NW	5	W	o	*	-	66	48				
	Sanguinaire	*	57	WSW	3	m	*	*	56	+4	W	5	*	m	6	40	57	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030.1	57	SW	5	o	1030.9	+1	54	0	WSW	3	.	o	5	1	59	52				
	Madrid (8 a.m.)	1027.0	61	W	2	b	1028.6	+1	46	+9	W	2	.	bc	*	-	61	41				
	Lisbon (9 a.m.)																					
	Gibraltar	1024.8	59	NW	6	b	1029.4	*	52	+6	W	5	*	b	3	-	65	45				
	Malta (8 a.m.)	*	*	*	*	*	1016.3	+1	55	0	NW	5	-	o	5	-	59	55				
	Azores (Horta, 8 a.m.)	1034.7	*	SSW	3	b	1035.3	0	56	+2	SSE	2	*	b	2	-	66	54				
	Madeira (Funchal)	1032.4	61	ENE	2	bc	1033.3	0	55	+1	ENE	3	NE	ba	3	.	66	55				
YESTERDAY'S REPORTS		....15th..., 8 P.M. G.M.T.					....Feb. 16th....., 7 A.M. G.M.T.															
ITALY.	Venice	1008.0	45	-	0	bc	1008.2	0	37	+1	E	2	*	b	3	.	*	*				
	Turin	1009.2	45	-	0	o	1009.3	0	39	+7	-	0	*	o	*	-	*	*				
	Florence	1010.7	45	-	0	o	1011.3	+2	41	+4	-	0	*	o	*	.	*	*				
	Pesaro	1007.9	52	SW	4	bc	1008.1	-2	46	+9	SW	3	*	b	2	.	*	*				
	Leghorn	1012.1	55	W	4	bc	1013.0	+2	54	+8	W	4	*	b	5	.	*	*				
	Rome	1012.9	46	NE	3	bc	1013.5	0	45	+8	NE	3	*	b	*	.	*	*				
	Brindisi	1011.6	48	S	4	bc	1008.9	0	46	+5	S.W.	3	*	b	3	.	*	*				
	Cagliari	1020.4	52	NW	6	b	1016.9	0	50	+5	N.W.	6	*	o	6	.	*	*				
	Palermo	1017.6	46	SSW	3	o	1017.0	+1	55	+9	-	0	*	o	5	.	*	*				

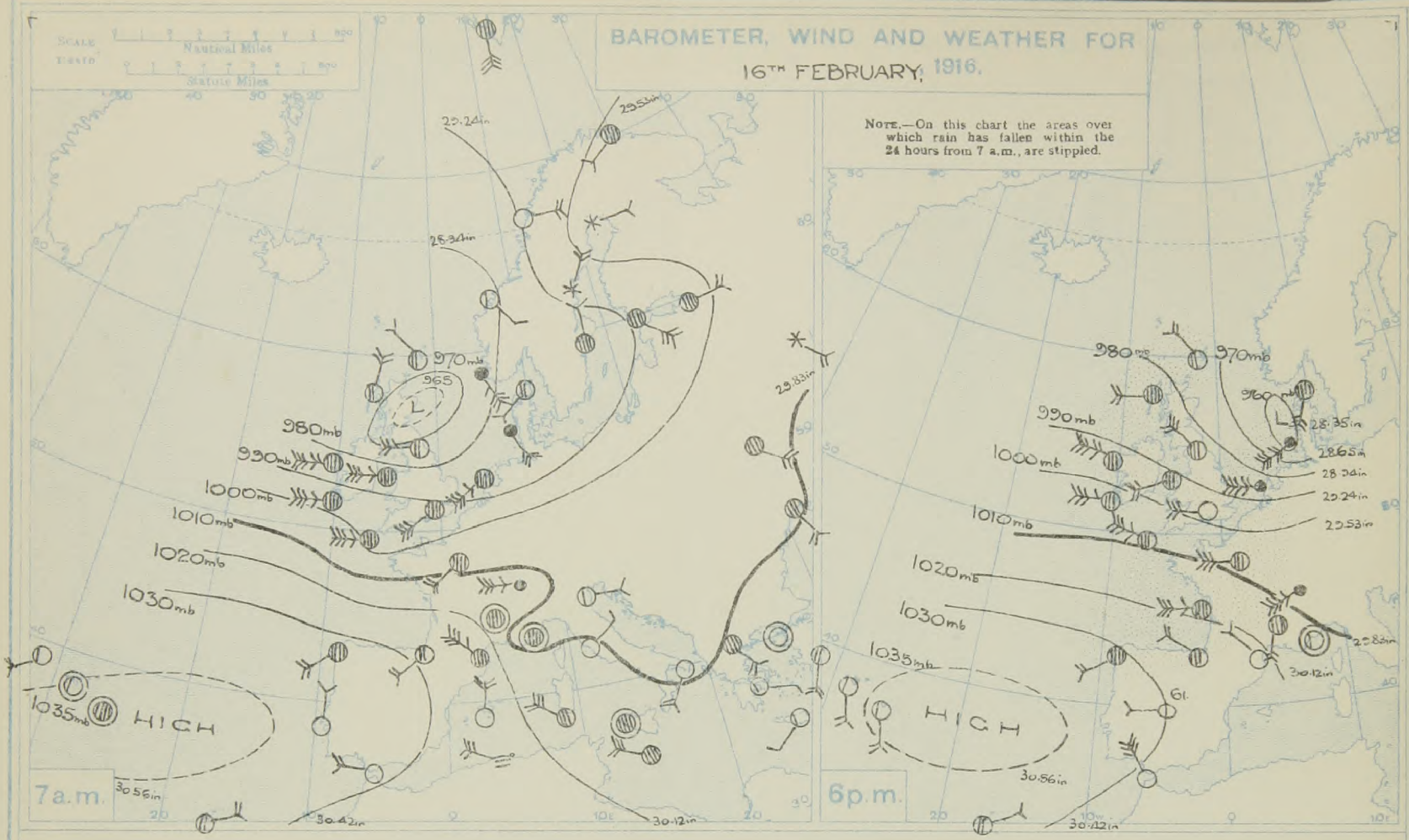
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.18 am

2,000 m. N.W. 48 miles per hour
1,000 m. N.W. by W. 62 " "
500 m. W. by N. 27 " "

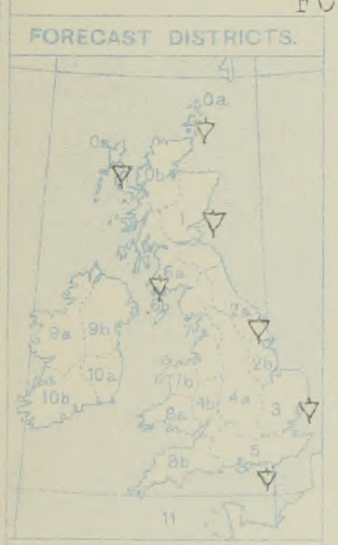
GALES
Duration and Extreme Force in British Islands.

Glasgow: 16th.
W. 8. at 5 a.m.
Eskdalemuir: 16th.
W.S.W. 8. 7 am. to 11 am. Gust 43 m/s.
Malin Head: 16th & 17th
W.N.W. 8. 7 am. to 7 am. W.N.W. 9. at 1 pm
Blacksod Point: 16th & 17th.
W.N.W. 8. 7 am to 7 am. W.N.W. 9 at 6 pm
Donaghadee: 16th
W.N.W. 8 3 am to noon. W.N.W. 9 at 11 a.m.
Southport: 16th & 17th.
W. 8 7 am to 6 am. Gust 35 m./s.
Liverpool: 16th
W.S.W. 8. 7 am to 7 pm. W.S.W. 9 at 10 am
Holyhead: 16th & 17th
W.N.W. 8. 7 am to 7 am. W. 10 at 1 p.m.
Pembroke: 16th
W.S.W. 8. 7 am to 8 am. W. 8 at 7 pm
Scilly: 16th & 17th
W.N.W. 8. 8 am to 7 am.
W.N.W. 9 at 8 am, 1 pm and 2 pm
Gust 31 m.p.s at 10 pm.
Falmouth: 16th W. 8 at 6 pm.
Portland: 16th & 17th.
W.S.W. 8 at 1 pm & 6 pm.
W.S.W. 8 8 pm to early morning
Dungeness: 16th
W. 8. 7 am. 3-4 p.m. W. 10 at 11 am
Dover: 16th.
W. 8. 7 am to 3 pm. S.W. 8 at 9 pm
Aberdeen: 16th
Gust. N.W. 25 m/s @ 11 am
Gust. N.W. 20 m/s in afternoon.
Spurn Head: 16th
W.N.W. 10 at 1 pm. W.N.W. 8 at 6 pm
Squalls W.N.W. 8 at 8 p.m.
Yarmouth: 16th
W. 8 at 1 p.m. W.N.W. 8 at 6 pm
Nottingham: 16th
W. 10 at noon.
Kew: 16th & 17th.
Gust. S.W. 30 m/s at 9.40 am
Gust. W.N.W. 8 at 0.15 a.m.
Benson: 16th
W. 8. 12.30 pm to 1.30 pm
Gust. W. 29 m.p.s at 12.40 pm

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



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.



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.

South Cone hoisted yesterday at 3am in Dists. 0, 1, 2, 3, 5 & 6.

0 a, b; 1; 2 a, b	Fresh winds from between West and North-West; snow or hail showers, but fair intervals; rather cold.
3; 4 a, b; 5	Fresh winds from between West and North-West; mostly fair to fine; rather cold.
6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b	Strong winds or gales from between West and North-West, decreasing slowly; squally, fair, but some sleet and hail showers; rather cold.
Western Channel and Bay 11	Westerly gales, decreasing slowly; high sea; fair, but some hail showers.

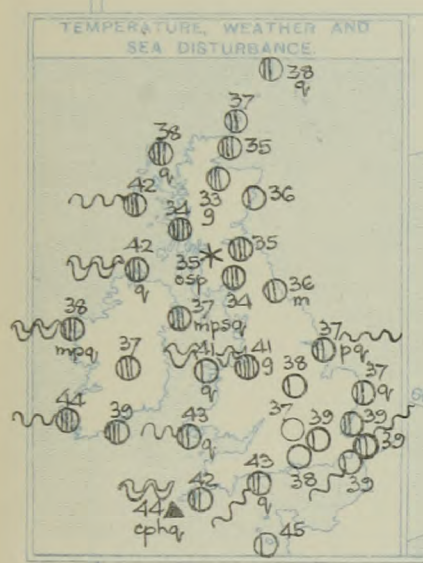
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 17TH FEBRUARY, 1916.

GENERAL INFERENCE.

With the continued rise of the barometer, conditions are likely slowly to become more settled.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∼∼. High ∼∼.

Normal Temperature of the Sea.

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

Scale of Tints for FEBRUARY.

Scale 1 : 2·10⁷
Nautical Miles
Statute Miles

980mb
985mb
990mb
995mb
1000mb
1005mb
1010mb
1015mb
1020mb
1025mb
1030mb
1035mb
Barometer rising generally
LOW
HIGH
28·78in
28·94in
29·09in
29·24in
29·38in
29·53in
29·68in
29·83in
30·12in
30·27in
30·42in
30·56in
40°
50°
Inches
31
30
29

Issue No. 19.810.

DAILY WEATHER REPORT.

Thursday, 17th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	15th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	16th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	°F.								
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Helsingfors ...	997·5	19	ESE	3	3	993·2	−2	21	0	ESE	3	*	5	0	?	*	*
Hangö	994·6	25	ESE	6	0	989·8	−3	27	0	ESE	6	*	0	0	2	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1002·3	23	—	0	0	998·3	−2	21	+3	E	3	—	0	*	—	23	18
Moscow	1008·9	14	SSW	3	0	1003·8	−2	19	−4	SSE	3	*	5	*	!	*	16
Kiev	1008·4	28	WSW	2	bc	1003·7	−5	28	+14	SE	4	*	0	*	—	*	14
Kharkov	1015·6	19	SSW	3	0	1013·1	0	23	−2	S	2	*	5	*	—	*	*
Kishinev	1010·9	34	E	2	bc	1004·8	−4	?	?	SE	?	*	?	*	—	*	27
Elisabetgrad ...	1012·2	32	SSE	3	0	1008·4	−3	30	+9	SE	3	*	0	*	—	*	28
Nicolaiev	1013·7	34	SSW	4	b	1009·6	*	34	+9	SSE	4	*	c	0	—	*	21
Odessa	1012·3	36	SW	3	b	1007·9	−3	37	+5	SSW	3	*	0	0	—	*	37

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	14	40	34	ph	os	0·0
	Banff	9	40	33	prs.bc	bc.c	2·9
	St. Andrews	5	41	34	*	*	1·2
Eng. N.E.	Harrogate	14	40	35	chrsp	chrp.c	0·7
	Skegness	7	47	38	bc.op	bcu.c	3·7
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	7	45	37	cq.bc.o	r th	0·9
Midlands	Buxton	19	44	34	os	cs	0·5
	Leamington Spa	6	44	35	bc cp	bc c	4·2
	Malvern	5	43	31	q	q	5·8
	Ross-on-Wye	3	52	36	or hq	hq bc	5·3
Wales.	Rhyl	2	44	39	q	q	0·0
	Colwyn Bay	2	48	40	bc	bc	0·5
	Llandudno	3	53	39	c	ch.c	0·8
	Aberystwyth	8	45	40	r.o.c	c b.o	2·5
	Tenby	2	50	39	b	bc.oh	5·5
England, E.	Lowestoft	8	54	38	oq r.c	c.bc.c	1·7
	Felixstowe	6	54	34	oq.bc	bcq	5·0
	Walton-on-Naze	5	51	40	bc.cop.bc	bc.b	4·0
	Southend-on-Sea	6	49	36	opc bc	bc.b	4·4
England, S.E.	Margate	5	54	37	r.c.bc	bc	4·2
	Ramsgate	4	51	30	cr	bc	2·1
	Hastings	9	51	41	or.c	bc.b	3·2
	Eastbourne	6	51	43	orq	bc.bq	4·5
	Seaford	6	50	?	or.c	c	3·9
	Brighton						
	Worthing	8	50	41	r.bc	bc.b	3·8
	Littlehampton	6	50	40	d.o.bc	bc.b	3·5
	Bognor						
	Southsea	4	51	41	bc	bc	4·8
	Bournemouth	9	49	41	r.o.c	bc	4·2
England, S.W.	Weymouth...	3	51	42	c.bcp	bc	4·3
	Torquay	4	52	42	o.cp	bc.b	5·1
	Paignton						
	Penzance	4	48	42	cp r	bcp hr	5·5
	Newquay	*	50	40	cpgh	bcpgh	4·9
	Ilfracombe	4	47	38	c.bc	bc	3·7
	Weston-super-Mare ...	4	46	42	bc.b	b.hr.bc	4·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 A.M. To-day)	Temperature. In Screen. Min. (24 hours ended 9 A.M. To-day)	Temperature. Min. on Grass. (24 hours ended 9 A.M. To-day)	Rainfall. (24 hours ended 9 A.M. To-day)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	56	78	4·3	50	32	32	0·3	or hp	bc	bc.b
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	56	84	4·7	52	38	32	—	o	op.bc	bc.b
Camden Sq. (Brit. Rainfall)	53	74	6·1	51	37	31	0·3	o.bcp	bq	*
Hampstead (Reservoir) ...	*	75	5·4	49	34	26	0·3	o.bcp	bc	bc.b
Richmond Park ...	*	*	4·9							
Kew. (See front page.)	*	*	5·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	51	74	4·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
565 Joules	15·7 Milliwatts.	46 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	6	41	37	35	orq.c	qsp	qhp	*
Darwen to 9 p.m.	7	40	33	25	our	ouphs	ophst	0·3
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	6	51	41	41	c.or	c.bcp.bc	b.bc	5·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	52	45	42	oq.or.oq	oq.bcq	bcq.bq	*

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

17th & 18th Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·8 / 7·6	12·7 / 12·7	5·6 / 5·8
Greenwich	7·13 / 7·11	12·14 / 12·14	5·15 / 5·17
Wick	7·44 / 7·41	12·26 / 12·26	5·8 / 5·11
Valencia	7·55 / 7·53	12·56 / 12·55	5·56 / 5·57

NOTES ON YESTERDAY'S WEATHER.

The day was showery in most districts, with hail and snow in the north. Amounts of precipitation were not large, except at Malin Head and Scilly, where 22 mm. fell. Sunshine measurements were generally good in the south and extended up to 5·8 hours at Malvern.

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

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§ 1 mm. is approximately ¼ hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 49.

Friday, 18th February

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall Millimetres.	Temp. Max.	Temp. Min.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	988·6	39	NW	4	bc	997·4	+2	35	-3	NW	2	NW	bc	2	1	41	33	bcq	bcp	bcsp	*
	Deerness (Orkney)	992·5	38	WNW	4	bcqp	997·6	*	36	-1	NW	2	W	bcx	1	2	40	34	bcq	bc cqp	bc	2·1
	Stornoway ...	999·2	38	NW	5	bcqhp	997·3	-3	34	-4	SW	1	–	om	1	3	41	33	c.bcq	bchqp	bcp.om	3·1
	Castlebay (Barra Isd.)	1002·6	42	WNW	4	o	996·7	-5	38	-4	ESE	4	–	r	4	3	44	36	chp bc	c.bc.o.c	c.bc or	2·5
	Glasgow ...	1002·2	36	WNW	3	b	1001·0	-5	35	0	S	1	–	ogm	*	2	42	33	c.bcsp	ohp.bc	bm.odp	4·2
	Eskdalemuir ...	1003·0	35	WNW	6	b	1002·4	-4	33	-1	S	2	–	oe	*	4	39	31	bc.osq	bc.osp	bc.osp	5·6
	Malin Head ...	1004·7	41	NW	5	cqsp	994·0	-10	37	-5	S	5	–	omr	5	4	44	35	bcqsp	bcq	omr	3·5
	Blacksod Point	1009·4	39	W	4	cmp	997·9	-2	49	+11	SSW	6	SW	ofd	5	7	52	35	bcp	cmp	omp	*
	Valencia ...	1012·4	43	SW	2	r	1007·2	-2	51	+7	SW	6	W	r	*	5	52	42	c.bc	cr	or.o	2·7
	Roche's Point	1014·0	45	W	3	o	1007·3	*	52	+13	WNW	4	–	o	4	2	52	38	c/bc	bcp.c	or.op	*
	Birr Castle ...	1010·5	42	W	1	o	1002·0	*	50	+13	SW	3	–	r	*	8	50	35	c	c.o	or	5·1
	Donaghadee ...	1005·5	38	W	5	cmqp	1000·7	-6	36	-1	S	3	–	omr	2	3	43	36	bcmq	omqp	cp.omr	*
	Liverpool (Bidston)	1007·0	42	WSW	5	c	1003·9	-6	36	-5	SSE	2	SE	od	3	2	45	34	bcq	b or	or	5·7
	Holyhead ...	1008·3	43	W	6	cqq	1001·2	-7	42	+1	SSW	5	–	omr	4	7	45	40	bc.cq	bc.cq	o.omr	0·0
	Pembroke (St. Ann's)	1011·6	45	W	5	cq	1004·9	-4	49	+6	WSW	6	–	omrq	6	5	49	42	bcq	cq	omd	4·5
	Scilly (St. Mary's)	1015·1	46	WNW	5	o	1011·9	0	50	+6	W	7	W	omq	6	5	50	42	cq.bcq	bcqp.c	omqp	4·8
	Falmouth ...	1014·9	42	W	3	b	1010·3	+1	51	+9	W	6	–	o	*	3	51	40	ph.bc	cp.bc.c	or odq	4·4
	Jersey (St. Aubin)	1014·8	43	W	4	bcqp	1011·3	*	50	+5	W	5	–	oqp	4	7	50	40	bcqhp	bcqhp	c.oqp	5·0
	Portland Bill ...	1012·1	45	WNW	5	bc	1007·9	-7	48	+5	WSW	5	W	or	5	3	48	43	bcq	bc	bc.c.or	*
	Dungeness ...	1008·3	41	W	4	b	1009·7	0	41	+2	SW	3	–	o	3	–	48	36	bc	bc	bc o	*
	Dover	1008·5	41	W	3	b	1010·0	-1	39	0	SW	3	SW	o	4	–	46	36	bc.b	b	b.bc oe	8·7
	Wick	994·6	37	WNW	3	bc	998·6	-1	32	-3	W	3	–	bc	3	3	39	30	crhp	ohp.bc	bc	*
	Nairn	998·3	36	W	3	ou	998·6	*	32	-1	–	0	–	og	1	2	38	31	bcsp	bc.c	gsp.c	2·7
	Aberdeen ...	996·6	37	WNW	6	b	1000·0	0	35	-1	SW	1	–	oz	2	–	41	34	bcq	bcq.b.	bq.oz	7·0
	Leith	1000·3	40	NW	2	bc	1000·5	-2	37	+2	SW	1	–	o	3	–	42	35	c.bc	b	bc.o	*
	Tynemouth ...	1000·0	38	NW	4	bm	1002·3	0	37	+1	W	2	–	bcm	3	–	43	35	bcmq	bcm	bcm	*
	Spurn Head ...	1002·4	39	NW	7	bc	1005·5	0	37	0	SW	4	–	c	4	–	43	36	bcq	bcq	bcq	5·7
	Yarmouth ...	1004·8	40	NW	5	b	1007·8	0	35	-2	WNW	2	–	cx	3	–	44	33	bcq	bcq	bm	6·9
	Clacton-on-Sea	1006·4	42	W	3	bc	1008·9	0	37	-2	W	3	–	o	2	–	46	35	bc	bc	bc.co	6·7
	Nottingham ...	1006·1	42	W	5	b	1006·3	*	37	-1	WSW	1	SW	r	*	3	45	34	cshrp	c.bc	bcp.c	4·0
	Benson (Oxon.) ...	1009·5	41	W	4	b	1008·3	-3	37	0	S	3	–	r	*	3	46	33	b	b	bv.or	*
	Sth Farnborough	1009·5	41	W	4	b	1008·5	-2	38	0	SW	1	–	omr	*	2	46	35	bc	c.bc.b	b.bc or	9·0
	London (Kew Obsy.)	1009·3	42	WNW	3	b	1009·0	-2	39	0	SW	2	–	omr	*	0·3	47	37	b.bcq.c.o	oc cv bcsbvb[illegible]	bm b.omr	8·3
NORTHERN EUROPE.	Spitsbergen ...	996·8	-4	SSE	2	c	997·2	+1	18	+14	–	0	*	o	*	*	18	-4				
	Vardö	997·5	21	S	2	o	996·2	-2	19	+1	SE	2	–	o	2	*	21	18				
	Bodö	991·5	18	E	4	b	993·1	0	18	-1	E	4	–	c	2	–	21	16				
	Christiansund	988·2	28	NE	1	b	995·1	0	25	-3	–	0	–	b	3	–	32	25				
	Skudesnaes ..	986·7	36	S	3	b	994·0	+4	30	0	–	0	–	o	2	–	36	27				
	Færder (Kiania Fjord)	987·0	28	NE	2	c	995·5	+4	25	-2	NNE	2	–	b	3	–	30	25				
	The Scaw (Skagen)	986·4	[illegible]	N	4	c	994·4	+3	32	+2	SE	2	–	o	3	–	41	28				
	Blaavands Huk	989·0	34	N	1	o	995·5	+3	37	+1	WNW	5	–	c	?	12	37	34				
	Haparanda ...	991·9	16	NE	4	o	990·6	0	7	-7	N	4	–	c	*	Trace	18	7				
	Hernösand ...	986·4	21	N	4	o	991·1	+3	16	-3	N	4	N	b	*	1	21	18				
	Stockholm ...	976·3	28	NNE	6	o	990·9	+7	21	-7	WNW	4	–	o	*	5	28	21				
	Wisby	971·9	30	N	6	s	991·7	+8	27	-5	NW	6	–	o	*	1	34	25				
	Karlstad ...	984·8	25	NNW	4	r	995·7	+8	7	-20	NNW	2	–	b	*	–	27	3				
FRANCE, &c	The Helder ...	1000·0	43	W	7	c	1005·1	+2	41	+2	W	4	NW	b	3	Trace	43	37				
	C. Gris Nez ...	1008·6	44	WNW	7	b	1010·1	-1	42	0	W	4	*	o	4	–	46	41				
	La Hève ...	1009·1	46	NW	7	o	1012·0	*	44	0	SW	5	*	r	5	2	54	44				
	Brest (St. Mathieu)	1018·7	47	NW	5	c	1016·7	0	51	+6	WNW	5	*	f	4	3	48	45				
	Rochefort (Ile d'Aix)	1020·3	46	NW	7	r	1018·7	+1	51	+7	WNW	6	*	r	*	2	52	49				
	Biarritz ...	1024·0	50	WNW	3	•r	1025·3	+2	54	+4	W	4	*	r	6	18	54	50				
	Paris	1012·8	43	WNW	4	b	1014·3	+1	39	0	SSW	2	–	o	*	Trace	48	36				
	Belfort	1012·3	36	W	7	o	1016·8	*	34	-3	WSW	4	*	o	*	1	48	32				
	Lyons	1017·2	37	–	0	r	1019·9	*	?	?	NW	?	*	?	*	1	47	35				
	Nice	1010·3	46	W	5	b	1013·0	+1	41	-8	E	4	*	b	4	–	57	39				
	Perpignan ...	1018·4	52	NW	5	b	1020·2	+1	46	-4	E	2	W	o	*	–	59	46				
	Sanguinaire ...	*	52	NW	7	m	*	*	50	-6	NW	5	*	c	6	–	54	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031·1	55	W	2	r	1034·3	+1	54	0	NW	3	W	o	6	2	55	52				
	Madrid (8 a.m.)	1025·5	57	NW	5	c	1031·4	+3	50	+4	NNW	1	–	b	*	–	59	46				
	Lisbon (9 a.m.)	1033·5	55	NNW	3	o	1033·7	0	52	0	NNW	2	–	o	6	–	61	52				
	Gibraltar ...	1029·8	58	NW	5	b	1029·4	*	55	+3	NW	6	*	b	3	–	66	50				
	Malta (8 a.m.)	*	*	*	*	*	1013·2	+3	54	-4	WNW	6	–	r	5	Trace	59	54				
	Azores (Horta, 8 a.m.)	1033·9	*	SE	4	o	1032·7	-2	56	0	SE	4	*	bc	3	1	64	55				
	Madeira (Funchal)	1033·2	63	ENE	3	c	1032·9	0	54	-1	NE	4	–	bc	3	–	64	54				
YESTERDAY'S REPORTS		16th ..., 8 P.M. G.M.T					17th Feb ..., 7 A.M. G.M.T.															
ITALY.	Venice	1005·3	43	–	0	b	1000·3	-1	37	0	–	0	*	b	0	–	*	*				
	Turin	1002·0	61	NE	8	bc	1003·6	+1	50	+11	–	0	*	b	*	–	*	*				
	Florence ...	1010·4	50	–	0	o	1003·7	-2	54	+13	SW	3	*	o	*	–	*	*				
	Pesaro	1005·9	57	S	4	b	1000·4	-5	55	+9	S	7	*	c	3	–	*	*				
	Leghorn ...	1012·2	57	SW	4	b	1005·7	-5	57	+3	W	4	*	c	5	–	*	*				
	Rome	1012·2	52	S	2	b	1008·6	0	43	-2	NE	2	*	o	*	–	*	*				
	Brindisi ...	1012·0	57	SSE	4	b	1007·6	0	48	+2	SW	2	*	b	2	–	*	*				
	Cagliari ...	1017·7	52	NW	7	c	1013·5	0	48	-2	NW	7	*	bc	3	–	*	*				
	Palermo ...	1016·4	55	SW	2	b	1015·6	+1	55	0	W	3	*	f	5	–	*	*				

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

GALES
Duration and Extreme Force in British Islands.

Blacksod Point
17th 7a.m.–8a.m. WNW 8

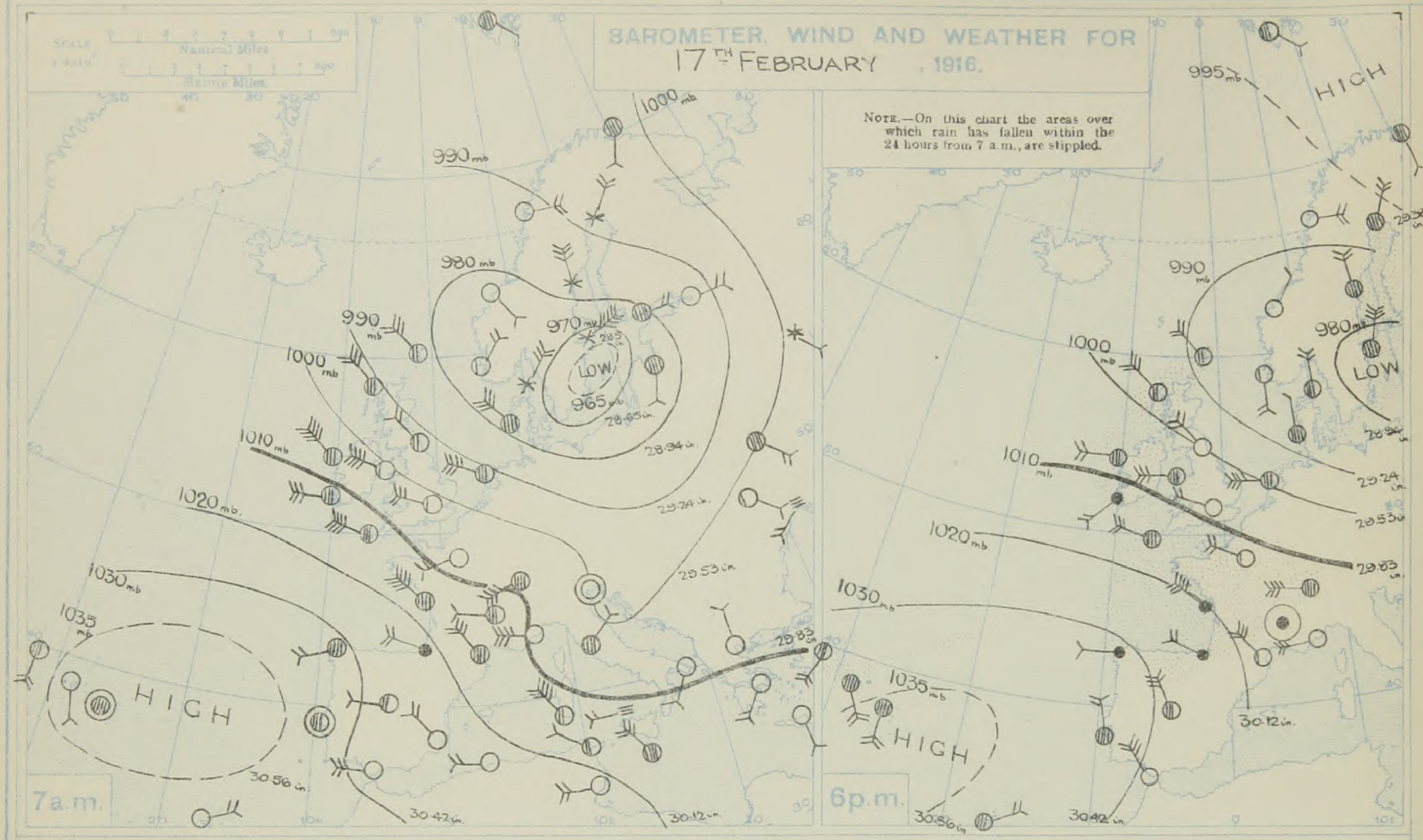
Scilly
18th 5a.m. W 8

Aberdeen.
17th 2p.m. Gusts W 18 mps.

Nottingham
17th 2p.m. W 8

Kew Obsy.
17th 9.55a.m. Gusts NW 18 mps.

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

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.

South Cone Hoisted in Districts 7 & 8 at 2.0 a.m. and in Districts 6, 9 & 10 at 6.20 a.m.

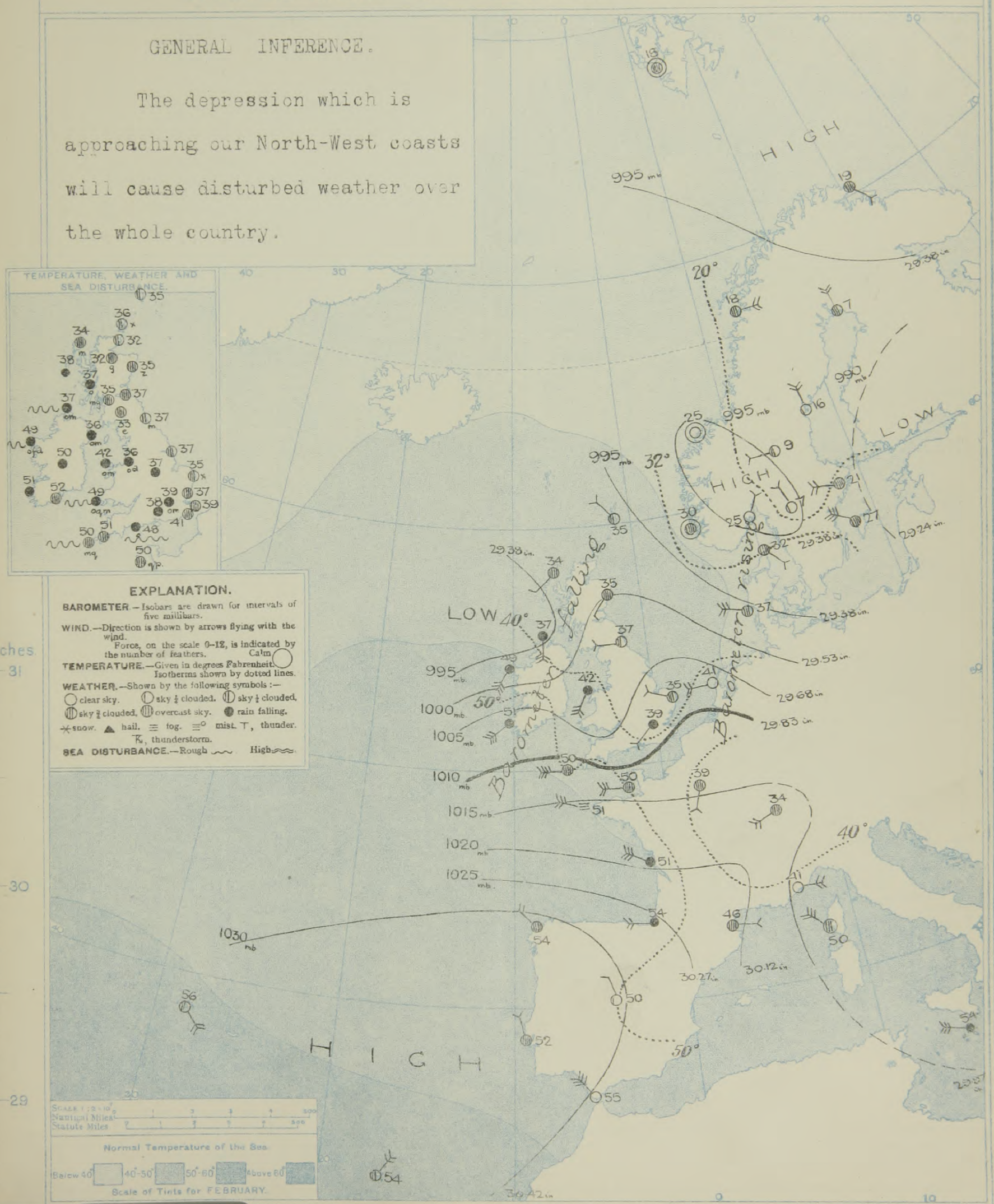
0 a, b; 1	Fresh Southerly winds, becoming strong; dull, rainy; becoming decidedly milder.
2 a, b; 3; 4 a, b; 5	Fresh or strong South-Westerly winds; dull, rainy; mild.
6 a, b; 7 a, b	Wind increasing to gale between South-West and West; dull, rainy; mild.
8 a, b	Strong winds or gales between South-West and West; dull, rainy; mild.
9 a, b; 10 a, b	South-Westerly to Westerly gales; dull, rainy; mild.
Western Channel and Bay 11	Strong winds or gales from between South-West and West; high sea; some fog; mild.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 18th FEBRUARY, 1916.



REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	16th at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	17th at 7 A.M. local time: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	995.1	14	ESE	5	bc	990.7	0	16	.	E	4	*	s	*	-	*	*
Helsingfors ...	988.2	32	S	4	s	981.9	-5	23	+2	E	3	*	o	o	?	*	*
Hangö	985.2	32	SSE	6	s	977.3	-6	27	0	ESE	9	*	s	o	?	*	*
Riga	989.1	28	-	0	c	974.9	-4	32	.	SSW	2	*	o	o	5	*	*
Petrograd	996.4	23	SE	4	o	988.4	-6	23	+2	E	3	-	b	*	1	27	21
Moscow	1006.9	25	SSE	2	c	1001.1	-2	28	+9	ESE	2	*	s	*	6	*	23
Kiev	1000.8	34	SW	3	o	1000.2	0	27	-1	SE	3	*	o	*	1	*	25
Kharkov	1011.6	27	SE	1	o	1008.6	-1	27	+4	S	2	*	o	*	-	*	*
Kishinev	1005.3	34	SW	1	o	1001.0	-1	30	.	SE	2	*	b	*	5	*	27
Elisabetgrad ...	1006.1	34	SSE	4	s	1004.3	-1	32	+2	S	2	*	b	*	1	*	30
Nicolaiev	1007.0	37	S	4	o	1005.6	*	34	0	SSW	4	*	o	o	-	*	32
Odessa	1005.9	37	WNW	2	r	1005.5	0	32	-5	WSW	3	*	f	o	1	*	28

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	4	43	34	ph	bc	2.2
	Banff	1	40	33	bcps	bcps	3.1
	St. Andrews				*	*	
Eng., N.E.	Harrogate	3	42	32	bc.cp.b	b.bc	5.7
	Skegness	3	45	34	b.bc	bc	6.8
Eng., N.W.	Morecambe	1	40	35	bc.s	bc	4.1
	Blackpool						
	Southport	2	44	37	c.ohq.c	bc	6.0
Midlands.	Buxton	13	38	32	s.c.b	bc	0.7
	Leamington Spa	-	47	36	b	b	7.3
	Malvern	-	45	36	bc	bc.b	8.7
	Ross-on-Wye	1	46	35	bcq	bc.b	8.1
Wales.	Rhyl						
	Colwyn Bay	2	43	36	c	bc	4.5
	Llandudno	1	45	39	c.b	b	5.3
	Aberystwyth	-	46	35	o.c.o	c.b.o	1.0
	Tenby	1	47	32	b	bc	5.9

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F	°F.			Hr.
England, E.	Lowestoft	1	45	35	bc.c.b	bc.b	6.5
	Felixstowe	1	46	37	bc.rg	bc.bg	6.4
	Walton-on-Naze	-	46	36	bcb.bc	bcb	7.3
	Southend-on-Sea	?	48	37	b.bc	bc.b	8.6
England, S.E.	Margate	-	46	37	b	b	7.0
	Ramsgate	-	46	35	bc	bc	8.5
	Hastings	-	47	37	b	b	8.4
	Eastbourne	-	48	39	b	b.bc	7.4
	Seaford	-	48	37	b	b	6.9
	Brighton						
	Worthing	-	49	38	b	b	9.0
	Littlehampton	-	47	39	b	b	8.5
	Bognor						
	Southsea	1	48	38	b	b	8.5
	Bournemouth	1	48	36	b	b	8.5
England, S.W.	Weymouth	0.2	47	39	b	b	7.4
	Torquay	2	51	39	b	b	7.6
	Paignton	1	50	39	b.bc	b	7.1
	Penzance	1	51	40	bc	bcpr	4.5
	Newquay	*	49	39	c.bc	c.bc	4.7
	Ilfracombe	1	46	38	c.bc	bc	4.8
	Weston-super-Mare ...	1	46	39	b	bhr.b	7.3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 A.M. To-day)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	63	98	5.3	47	36	31	2	b.	b.bc	b.or
City (Bunhill Row)	*	*	6.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	61	95	6.4	44	37	31	3	bc	bc	bc.or
Camden Sq. (Brit. Rainfall)	56	94	7.3	49	36	30	2	bbc	b	*
Hampstead (Reservoir) ...	*	95	8.0	46	34	25	2	-	-	bor.or
Richmond Park ...	*	*	8.0							
Kew. (See front page.)	*	*	8.3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	56	93	7.5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
601 Joules	16.6 Milliwatts.	39 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F				Hr.
Dublin to 4 p.m.	2	46	35	33	qps.b	q.c.b	c.b	*
Darwen to 9 p.m.	7	40	33	31	ahsst	oshrt	obcu	1.0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	2	49	39	34	bcpqbc	bc.b	b	7.4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	48	38	30	bq.b	b. c	c.bc	*

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

18th & 19th February 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.6 / 7.4	12.7 / 12.7	5.8 / 5.60
Greenwich	7.11 / 7.9	12.14 / 12.14	5.17 / 5.19
Wick	7.31 / 7.28	12.26 / 12.26	5.11 / 5.14
Valencia	7.33 / 7.31	12.25 / 12.25	5.37 / 5.39

NOTES ON YESTERDAY'S WEATHER.

Snow and hail showers again fell in the North and West of the country but there were considerable bright intervals. In the South-East the sunshine measurements were large, up to 9 hours at South Farnborough and Worthing.

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

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

§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 50. { Saturday 19th February

	STATIONS.	Yesterday Evening. Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0-12.	Weather.	This Morning 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	9981	37	NE	3	bc	10074	‡3	35	0	NNE	2	NE	bc	2	-	39	33	bc	bc	bc	*
	Deerness (Orkney)	9956	36	E	2	bc	10078	*	35	-1	NE	4	NE	bc	3	-	42	34	bc.c.o	o.c.b	bc	0.4
	Stornoway ...	9929	37	E	4	o	10087	+7	32	-2	NW	1	-	b	1	1	39	31	om.o	o.cp	b	0.0
	Castlebay (Barra Isd.)	?																				
	Glasgow ...	9901	34	ENE	1	omd	10074	+11	35	0	NE	1	-	o	*	20	36	32	s	r	omd.o	0.0
	Eskdalemuir ...	9905	34	-	0	omd	10059	+9	34	+1	NNE	4	-	o	*	10	40	32	or.os	ors.od	o.od	0.0
	Malin Head ...	9894	45	SW	6	omr	10072	+12	42	+5	NNW	5	N	bcq.p	6	5	47	36	omr	omr	bcq.p	0.0
	Blacksod Point	9960	47	W	7	cm	10125	+8	42	-4	NNW	5	N	bc	4	1	51	39	cmp	cm	bc	*
	Valencia ...	10072	50	WSW	6	o	10150	+2	47	-4	WNW	5	-	c	*	2	53	46	omd	of	o.c	0.0
	Roche's Point	10047	52	NW	4	c	10144	*	47	-5	NW	3	-	o	2	1	55	47	omd.	o.c	bc.o	*
	Birr Castle ...	10005	49	W	5	r	10114	*	44	-6	W	3	-	o	*	3	54	43	or	or	o	0.0
	Donaghadee ...	9920	48	W	5	cgmp	10061	+11	40	+4	NNE	4	-	omr	4	3	51	36	cmp	cmp	cmpq	*
	Liverpool (Bidston)	9938	47	SW	5	r	10026	+5	44	+8	WSW	5	W	oq	4	5	52	35	orq	oq	opq	0.0
	Holyhead ...	9951	49	W	7	cqg	10058	+5	45	+3	WNW	6	N	oq	5	6	50	42	op.dm	opr.mc	opq	0.0
	Pembroke (St. Ann's)	10064	50	W	7	cq	10097	+4	47	-2	WNW	5	NW	cq	5	3	50	46	ogr	cq	cq.p	0.0
	Scilly (St. Mary's)	10082	51	W	8	om	10148	+4	49	-1	WNW	7	W	cq	7	1	51	47	omd	omd	omd.oc	0.0
	Falmouth ...	10062	52	WSW	8	oq	10117	+1	47	-4	WNW	6	-	b	*	4	52	47	oq.dq	odq.pq	dq.bcq	0.0
	Jersey (St. Aubin)	10091	51	W	6	opq	10119	*	50	0	WNW	5	-	o	4	7	52	49	oq.pr	oq.p	oq.p.o	0.0
	Portland Bill ...	10029	49	WSW	6	cq	10069	+3	48	0	WNW	6	NW	cq	5	4	50	46	or	cq.p	c.bcq	*
	Dungeness ...	9996	48	SW	4	opd	10026	+2	47	+6	SW	4	-	o	4	2	48	39	od.o	od.r	c.r	*
	Dover ...	9985	48	W	4	r	10040	+3	46	+7	W	4	W	o	3	5	51	36	opr	opr	od	0.0
	Wick ...	9953	37	SSE	1	r	10079	+6	38	+6	ENE	2	NE	c	3	1	40	31	bc.om	omd	om.cph	*
	Nairn ...	9924	33	E	2	os	10081	*	33	+1	-	0	-	ou	1	7	38	31	oq	us	p.s.c	0.0
	Aberdeen ...	10037	36	E	4	r	10068	+9	34	-1	NW	3	W	b	2	9	40	33	oq	ors	or.cbc	0.0
	Leith ...	9894	37	E	2	r	10071	+5	38	+1	NE	2	NE	c	4	13	42	38	s	r	r.o.c	*
	Tynemouth ...	9912	37	S	2	rm	10037	+9	40	+3	NE	3	NE	cm	4	6	43	36	omr	cp	omr	
	Spurn Head ...	9924	43	WSW	4	om	10007	+5	41	+4	NE	5	-	oq.p	5	?	43	39	c.or	om	bcq.p	* 0.0
	Yarmouth ...	9947	43	SW	2	omd	9979	+4	46	+11	N	6	-	omd	4	3	49	35	omd	cm	od.bcq	0.0
	Clacton-on-Sea	9968	48	W	3	r	10012	+3	46	+9	WNW	4	NW	o	3	2	50	37	ogdr	ogr	ogp	0.0
	Nottingham ...	9941	51	W	4	r	10020	*	46	+9	WNW	4	NW	o	*	3	52	36	rm	r.o	r.o.c	0.0
	Benson (Oxon.) ...	9975	50	W	5	o	10047	+3	46	+9	WNW	3	-	o	*	4	51	37	r	o	c	*
	Sth Farnborough	9992	51	W	4	r	10046	+3	46	+8	W	3	-	o	*	5	52	37	mg.r.o	o.r	o.b.o	0.0
	London (Kew Obsy.)	9984	51	W	4	o	10043	+3	47	+8	WNW	3	-	o	*	4	52	38	om.om	om.o	o	0.0
NORTHERN EUROPE.	Spitsbergen ...	9979	16	-	0	s	9972	0	7	-11	-	0	*	c	*	*	18	1				
	Vardö ...	9941	25	NW	4	o	9971	+1	27	+8	W	2	-	o	3	*	25	12				
	Bodö ...	9967	21	E	4	b	10006	+4	27	+9	E	2	-	o	2	?	27	18				
	Christiansund	9991	28	-	0	b	10057	+4	32	+7	-	0	-	s	3	60	32	25				
	Skudesnaes ..	9966	36	SSW	4	o	10027	+5	28	-2	NE	1	-	c	2	?	36	27				
	Færder (X'tania Fjord)	9999	27	-	0	c	10039	+4	23	-2	NNE	4	-	o	?5	-	27	23				
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Haparanda ...	9928	3	N	2	b	9986	+4	-6	-13	N	2	-	b	*	-	12	-6				
	Hernösand ...	9968	12	N	2	b	10031	+3	-2	-18	-	0	-	b	*	-	21	-6				
	Stockholm ...	9987	19	WSW	2	b	10035	+2	7	-14	-	0	-	c	*	-	23	7				
	Wisby ...	9997	27	SW	2	bc	10026	+3	21	-6	SSE	2	-	b	*	-	28	18				
	Karlstad ...	9994	14	-	0	b	10043	+4	1	-6	N	2	-	b	*	-	25	0				
FRANCE, &c.	The Helder ...	9979	37	SSE	3	r	9947	+3	39	-2	NE	3	-	r	3	5	45	36				
	C. Gris Nez ...	10003	44	WSW	6	r	10029	+3	47	+5	W	6	*	o	5	8	47	42				
	La Hève ...	10053	46	WSW	7	f	10084	*	46	+2	NW	5	*	o	6	5	52	43				
	Brest (St. Mathieu)	10139	52	W	7	f	10170	+2	50	-1	WNW	6	*	f	4	2	54	48				
	Rochefort (Ile d'Aix)	10206	51	WNW	7	o	10186	0	51	0	WNW	7	*	f	*	1	52	50				
	Biarritz ...	10283	54	WSW	3	o	10252	0	54	0	W	4	*	o	5	-	54	52				
	Paris ...	10071	50	WSW	5	o	10071	+3	50	+11	WNW	3	-	o	*	6	54	39				
	Belfort ...	10113	32	WSW	2	s	10071	*	44	+10	W	7	*	o	*	14	44	31				
	Lyons ...	10160	40	WSW	2	r	10124	*	49	?	NW	3	*	o	*	10	51	34				
	Nice ...	10091	64	-	0	b	10084	-3	56	+15	N	4	*	bc	4	-	57	39				
	Perpignan ..	10210	57	WNW	5	o	10177	+3	57	+11	WNW	7	NW	c	*	-	63	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	10336	57	WSW	3	c	10328	0	54	0	SW	1	-	f	3	-	57	52				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	10320	57	NNW	4	b	10309	0	50	-2	NNW	4	-	b	5	-	59	50				
	Gibraltar ...	10291	58	W	5	b	10264	*	55	0	NW	5	*	b	1	-	64	53				
	Malta (8 a.m.) ...	*	*	*	*	*	10136	-1	55	+1	W	5	-	o	4	4	57	52				
	Azores (Horta, 8 a.m.)	10310	*	S	5	bc	10307	0	60	+4	S	5	*	o	4	-	64	59				
	Madeira (Funchal)	10306	64	ENE	3	bc	10295	-1	55	+1	E	4	-	bc	3	-	66	54				
YESTERDAY'S REPORTS		Feb. 17th ... 8 P.M. G.M.T.					Feb. 18th ..... 7 A.M. G.M.T.															
ITALY.	Venice ...	10052	45	SE	1	b	10092	0	37	0	NNW	1	*	b	2	-	*	*				
	Turin ...	10083	45	W	6	b	10132	0	36	-14	..	0	*	b	*	-	*	*				
	Florence ...	10053	48	W	3	o	10102	0	36	-18	SE	1	*	b	*	-	*	*				
	Pesaro ...	10052	46	NE	3	c	10099	0	45	-10	W	4	*	b	4	-	*	*				
	Leghorn ...	10074	55	N	3	bc	10120	0	48	-9	..	0	*	b	1	-	*	*				
	Rome ...	10044	52	W	3	o	10114	0	39	-4	N	3	*	b	*	-	*	*				
	Brindisi ...	10012	57	N	3	b	10012	0	45	-3	NW	5	*	o	6	5	*	*				
	Cagliari ...	?	?	NW	3	c	10135	0	46	-2	NNW	3	*	b	4	-	*	*				
	Palermo ...	10113	57	W	3	c	10127	0	51	-1	NW	3	*	bc	5	2	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.9 a.m.

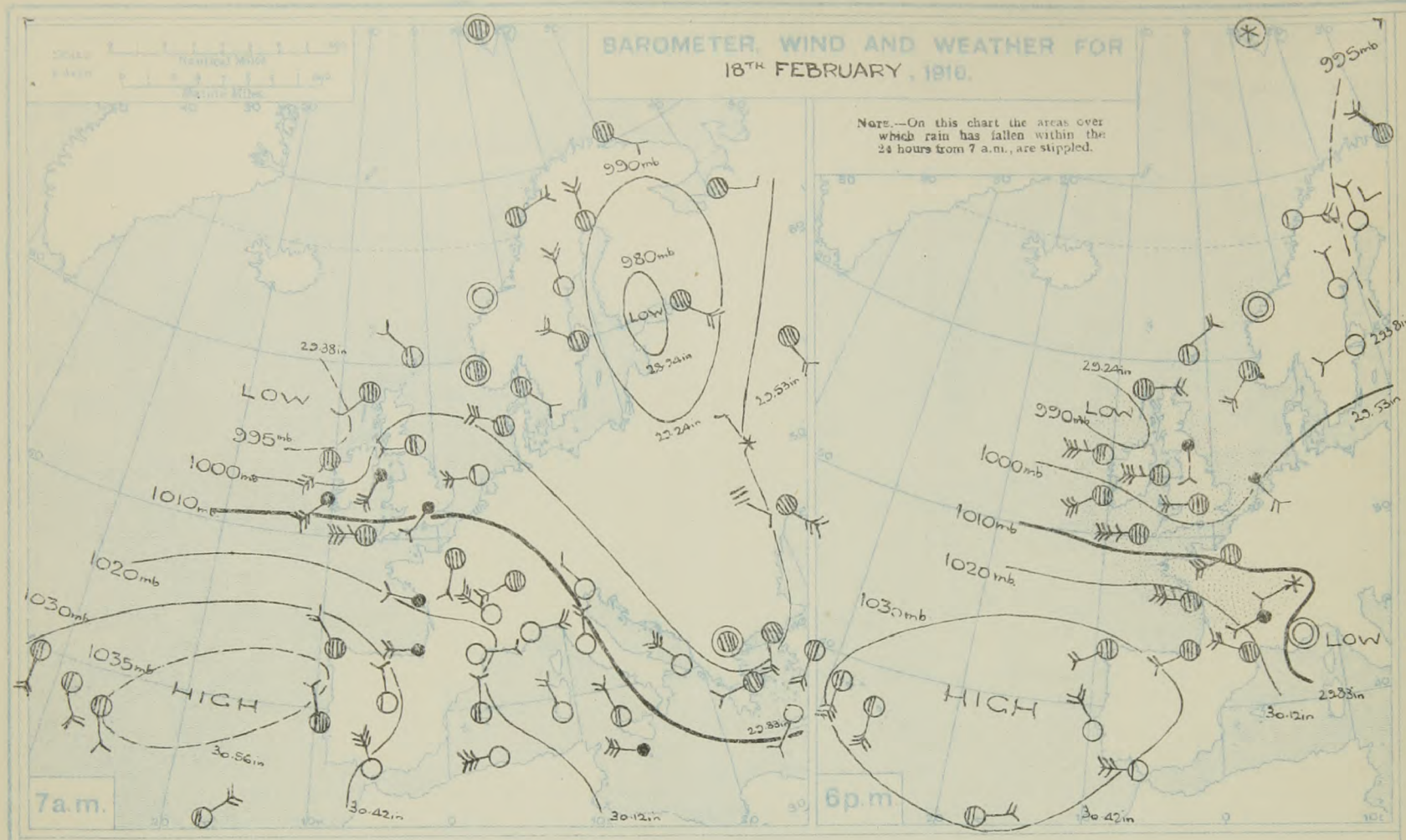
500 m. W.N.W. 45 m.p.h.

GALES
Duration and Extreme Force in British Islands.

Scilly: 18th & 19th:
W.N.W. 8 6 p.m. to 3 a.m.

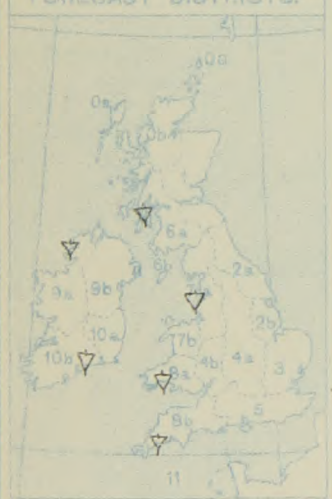
Falmouth: 18th.
W.S.W. 8 at 6 p.m.

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

South Cone hoisted yesterday at 2 a.m. in Dists. 7 & 8; & in Dists 6, 9 & 10, at 8.20 a.m.

0 a, 0 b, 1	Moderate Northerly winds; fair, some snow showers; cold.
2 a, 2 b, 3	Fresh winds from North or North-West, backing and decreasing later; fair, some showers on east coast; temperature about normal.
4 a, 4 b, 5	Fresh winds between West and North-West; fair; temperature normal.
6 a, 6 b, 7 a, 7 b, 8 a, 8 b, 9 a, 9 b, 10 a, 10 b	Fresh or strong North-Westerly winds, decreasing and backing later; fair, some showers of rain or sleet; temperature about normal.
Western Channel and Bay 11	Fresh or strong Westerly winds; rough sea; fair, but showery, some fog.

FURTHER OUTLOOK.

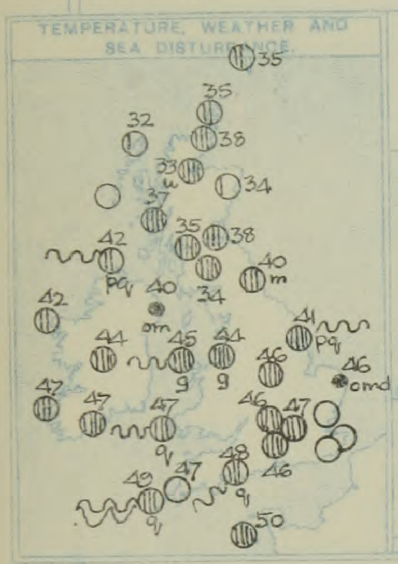
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 19TH FEBRUARY, 1916.

GENERAL INFERENCE.

The depression over Holland is passing eastwards, but further disturbances from the west are probable.



EXPLANATION.

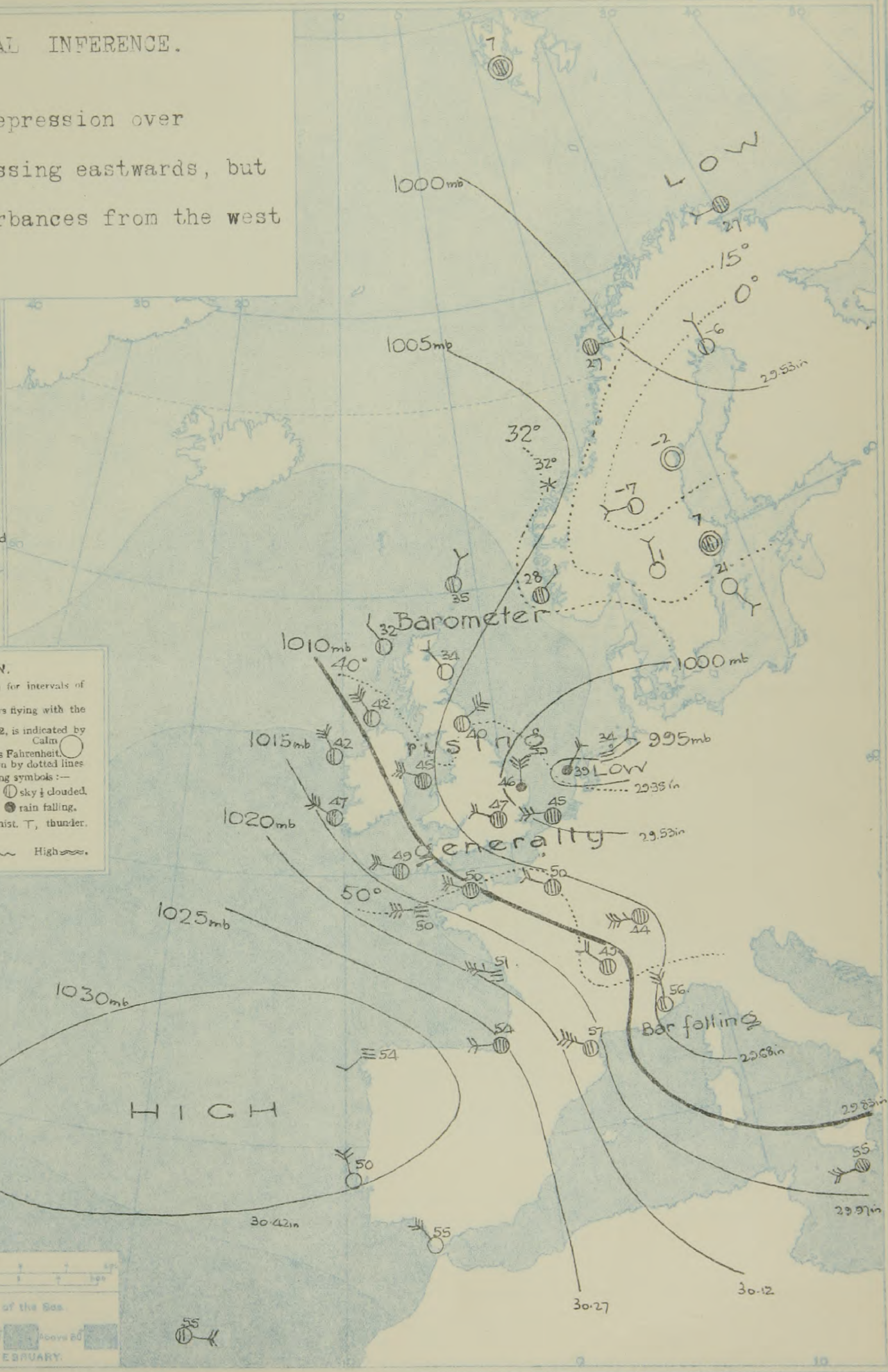
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough High.



Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tides for FEBRUARY.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	17th ... AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	18th ... AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	997·9	23	SE	4	0	996·3	0	27	.	SE	4	*	0	0	–	*	
Uleaborg	989·2	16	ENE	4	0	987·4	0	14	-2	NNE	3	*	0	*	?	*	*
Helsingfors ...	973·5	34	S	4	0	979·4	+4	30	+7	SSW	3	*	0	0	?	*	*
Hangö	970·2	34	NNE	2	0	?	+4	23	-4	WNW	2	*	0	0	?	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	982·7	34	SSE	4	3	986·6	+1	34	+11	SE	5	S	0	*	–	34	23
Moscow	1001·8	32	S	4	0	1005·1	+2	34	+6	S	3	*	0	*	1	*	30
Kiev	1002·1	32	–	0	0	1000·4	-1	32	+5	N	1	*	5	*	5	*	27
Kharkov	1008·9	34	S	2	0	1008·4	0	34	+7	S	2	*	f	*	–	*	*
Kishinev	1002·3	39	SW	1	0	997·3	-3	39	+9	SE	1	*	f	*	1	*	28
Elisabetgrad ...	1004·4	36	SSE	2	r	1001·5	-2	37	+5	S	3	*	r	*	12	*	36
Nicolaiev	1006·0	41	SSW	4	c	1002·0	*	41	+7	SSE	5	*	0	0	–	*	34
Odessa	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	5	43	35	p h.o	r.o	0·0
	Banff	2	38	32	bc.ops	o.s	0·3
	St. Andrews	5	46	33	*	*	0·0
Engl. N.E.	Harrogate	6	47	33	r.d	r.d	0·0
	Skegness	3	47	32	o.r	s.r.od	0·0
Engl. N.W.	Morecambe	6	46	35	r.cr	r.c	0·0
	Blackpool						
	Southport	6	48	36	or	or.o	0·0
Midlands	Buxton	8	47	32	cr	cr	0·0
	Leamington Spa	5	32	30	od	o.p.d	0·0
	Malvern	4	52	36	q	q	0·0
	Ross-on-Wye	2	53	36	o.bcp	q.bc	0·1
Wales.	Rhyl	7	54	36	p	p	0·0
	Colwyn Bay	9	54	36	or.bc	bc.c.f.s	0·1
	Llandudno	8	51	36	r	r	0·1
	Aberystwyth	5	47	41	r.o	or.o	0·0
	Tenby	10	51	35	r	bc.c.or	0·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	9	49	34	or	or	0·0
	Walton-on-Naze	3	49	34	od.or	o.r.od	0·0
	Southend-on-Sea	3	48	35	odr	o.c	0·0
England, S.E.	Margate	3	51	36	or	op	0·0
	Ramsgate	2	48	33	r	r.o	0·0
	Hastings	5	49	35	b.or	or.o	0·0
	Eastbourne	6	49	38	or	ogr	0·0
	Seaford	7	48	39	r	o	0·0
	Brighton						
	Worthing	6	49	36	r	r	0·0
	Littlehampton	5	50	40	r	o.r	0·0
	Bognor	6	50	37	o	o.bc	0·0
	Southsea	10	51	40	or	or	0·0
	Bournemouth	4	53	38	r	o	0·0
England, S.W.	Weymouth	7	51	42	or	r.o	0·0
	Torquay	2	54	39	op	op	0·1
	Paignton	2	53	39	o	od	0·0
	Penzance	3	52	43	o	orm	0·0
	Newquay	1	51	43	od	odr	0·0
	Ilfracombe	10	52	39	op.o	op.o	0·0
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-day)	Temperature. In Screen. Min. (24 hours ended 9 a.m. To-day)	Temperature. Min. on Grass. (24 hours ended 9 a.m. To-day)	Rainfall. (24 hours ended 9 a.m. To-day)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	93	76	0·0	52	37	39	2	o	or.o	og.o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	76	0·0	53	38	39	2	ord	or.or	bc.u
Camden Sq. (Brit. Rainfall)	89	71	0·0	52	39	39	3	or.od	o.o.p	*
Hampstead (Reservoir) ...	*	72	0·0	50	42	33	3	o	o	c
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	87	69	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
127 Joules	3·5 Milliwatts.	12 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	8	54	38	34	bo.rq	og.r	og	*
Darwen to 9 p.m.	9	48	32	30	bc.asr	osr	oru	0·0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	4	52	37	28	bbc	c.or	aogo	*

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

February 18th & 20th 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·4 / 7·2	12·7 / 12·7	5·10 / 5·12
Greenwich	7·9 / 7·7	12·14 / 12·14	5·19 / 5·21
Wick	7·38 / 7·35	12·26 / 12·26	5·14 / 5·17
Valencia	7·51 / 7·49	12·55 / 12·55	5·39 / 6·1

NOTES ON YESTERDAY'S WEATHER.

Some snow again fell in the north, and rain in other parts of the country. Measurements ranged up to 20 mm. at Glasgow. The day was sunless over the whole country. Night minima just reached the freezing point at a few stations in Scotland.

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

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 51. { Sunday, 20th February.

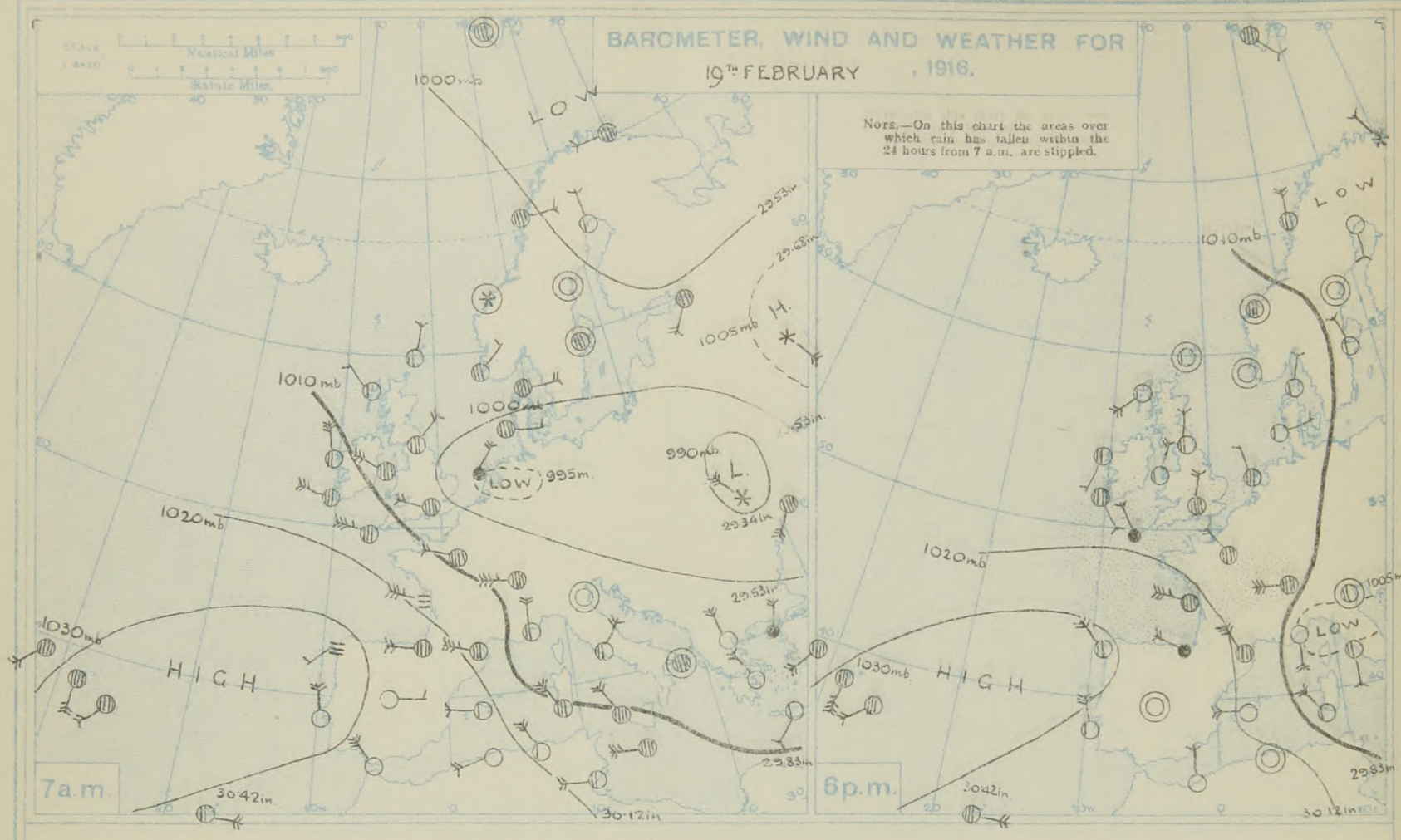
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1015.2	37	–	0	bm	1015.4	‡ 0	36	+1	SW	2	–	c	2	2	41	34	bc	bc	bcp	*
	Deerness (Orkney)	1015.9	36	W	1	b	1017.3	*	36	+1	SW	4	W	bc	3	1	41	35	bc	bc.b	b.bc	8.3
	Stornoway ...	1016.0	39	SW	4	b	1019.0	+2	35	+3	W	2	–	bc	2	2	45	31	b	b	b.bc	7.4
	Castlebay (Barra Isd.)																					
	Glasgow ...	1018.7	37	ESE	1	cm	1022.0	+1	28	-7	ESE	1	–	cm	*	0.4	43	27	ohc.bc	b.bc.c	cm.ohc	4.5
	Eskdalemuir ...	1018.9	33	–	0	b	1023.0	+1	23	-11	–	0	–	cx	*	–	39	21	o.c.o.bc	bc.b	bx.bc.c	4.0
	Malin Head ...	1017.6	41	S	2	bc	1019.2	0	37	-5	S	1	–	cm	2	–	45	35	bc	bc	cm	7.5
	Blacksod Point	1017.6	45	SSW	1	bc	1018.0	0	38	-4	ESE	2	–	cm	2	–	49	38	bc	bc	bc.cm	*
	Valencia ...	1016.9	46	SE	2	ohp	1012.5	0	46	-1	ENE	3	–	o	4	9	50	44	c.o.c	or.o	r.or.o	0.0
	Roche's Point	1019.1	47	S	2	o	1015.6	*	44	-3	E	4	–	r	4	10	50	42	o.c.o	o	or.dm	*
	Birr Castle ...	1018.3	44	NW	1	c	1017.3	*	38	-6	E	1	–	r	*	7	48	38	bc	bc.c	c.or	3.7
	Donaghadee ...	1018.2	40	N	3	bcz	1019.8	+1	40	0	SSE	3	–	om	2	2	43	37	bcz	bcz	bcm.cm	*
	Liverpool (Bidston)	1018.3	41	NNW	1	o	1020.9	0	34	-10	E	2	SE	o	2	–	44	34	og	bcm	bmx	1.2
	Holyhead ...	1018.0	43	NE	3	b	1019.1	0	39	-6	E	4	–	om	3	–	47	37	ohc.bc	bc.c.b	b.bc.c.o	5.5
	Pembroke (St. Ann's)	1019.3	43	N	2	c	1016.6	-2	42	-5	SSE	4	SE	cqp	3	2	48	40	c	c	cr	3.2
	Scilly (St. Mary's)	1019.0	47	NW	2	omd	1014.8	-2	49	0	SW	1	–	om	4	1	52	44	c.bc	c.om	omdom	3.5
	Falmouth ...	1018.7	46	NNW	2	cp	1016.5	-1	44	-3	ESE	3	–	r	*	4	50	43	bq.bcp	cq.bcp	c.or	2.4
	Jersey (St. Aubin)	1017.6	49	WNW	3	o	1018.2	*	46	-4	ESE	3	–	o	3	0.1	52	43	ogp.c	c.o	c.op.o	1.6
	Portland Bill ...	1016.6	47	NW	4	bc	1019.2	-1	45	-3	E	4	SE	m	4	–	50	41	bc.c	c.bc	bc.c	*
	Dungeness ...	1014.8	42	NW	3	c	1020.0	0	33	-14	N	2	N	b	2	3	50	31	c.o.c	c.op	bc.bx	*
	Dover	1015.1	42	N	4	o	1021.7	+1	33	-13	NW	1	–	b	2	1	47	32	op.c	c.o	c.bc.bx	0.0
	Wick	1016.5	33	W	1	bc	1018.2	+1	35	-3	WSW	3	–	bc	3	–	42	30	cm.bc	bcm	bc	*
	Nairn	1017.4	30	–	0	bx	1018.1	*	33	0	W	1	–	cq	2	0.3	38	23	c.bc	bc.b	bx.ph.c	7.4
	Aberdeen ...	1018.0	35	W	2	b	1020.5	+1	26	-8	WSW	1	–	b	2	–	41	25	bc.b	b	bx	7.4
	Leith	1017.7	38	NW	1	bc	1021.3	+2	30	-8	SW	1	SW	bc	2	–	42	30	b	b	bc	*
	Tynemouth ...	1017.3	40	N	2	bc	1021.7	+1	30	-10	W	1	–	bm	3	–	43	30	bcmp	bc	bm	*
	Spurn Head ...	1016.0	42	NE	4	bc	1021.9	+1	35	-6	N	1	–	bx	2	2	43	32	cqp	bc	bcp	1.1
	Yarmouth ...	1015.1	39	N	2	bc	1021.9	+2	33	-13	ENE	3	–	bc	3	0.4	46	31	cbcm	bcm	bbc	3.1
	Clacton-on-Sea	1015.7	42	NNW	2	bc	1021.5	+1	33	-13	NNW	2	N	bc	1	–	46	31	ogp	og.cbc	bc.bx	0.0
	Nottingham ...	1017.6	40	NNE	1	c	1021.8	*	28	-18	ENE	1	–	f	*	2	46	27	opm	op.c	bc	0.0
	Benson (Oxon.) ...	1017.3	39	N	3	o	1021.5	+2	28	-18	–	0	–	fb	*	0.2	48	27	o	d	b	*
	Sth Farnborough	1016.9	41	NW	1	c	1021.1	0	31	-15	E	1	–	f	*	–	49	27	od.or	o.c	c.obcfx	0.0
	London (Kew Obsy.)	1017.2	42	NNE	3	om	1021.9	0	32	-15	NNE	1	–	fx	*	1	49	30	ogp.o.or	or.cm.om.o	o.bcm.fx	0.4
NORTHERN EUROPE.	Spitsbergen ...	1001.5	9	SSE	2	o	1004.6	+1	5	-2	SSE	2	*	m	*	*	9	-4				
	Vardö	1000.3	27	NNW	2	S	1004.2	0	16	-11	SW	4	–	b	3	*	28	16				
	Bodö	1008.0	32	N	4	c	1011.0	0	32	+5	–	0	–	S	1	*	32	25				
	Christiansund	1013.7	34	–	0	c	1014.0	-1	34	+2	SSE	1	–	c	3	TRACE	36	30				
	Skudesnaes ..	1015.3	23	–	0	b	1020.3	+1	23	-5	ENE	1	–	b	1	–	32	19				
	Færder (X'iania Fjord)	1013.5	28	N	4	b	1019.4	+2	23	0	N	2	–	b	1	–	28	21				
	The Skaw (Skagen)	1011.4	28	NNE	2	b	1019.4	+3	30	+2	NE	2	–	b	2	–	32	27				
	Blaavands Huk	1012.0	28	ENE	1	b	1021.1	+3	28	-4	ENE	1	–	b	1	–	36	25				
	Haparanda ...	1007.8	-4	S	2	b	1014.6	+3	-8	-2	SSE	2	–	f	*	–	3	-15				
	Hernösand ...	1009.5	5	–	0	b	1015.9	+2	5	+7	N	2	–	b	*	–	21	-16				
	Stockholm ...	1009.7	18	NNW	2	b	1016.0	+2	7	0	NNW	2	–	o	*	–	21	3				
	Wisby	1007.3	28	NE	2	c	1013.7	+5	25	+4	N	4	–	o	*	–	30	7				
	Karlstad	1011.8	18	N	2	b	1018.7	+3	14	+13	N	2	–	b	*	–	23	0				
FRANCE, &c.	The Helder ...	1013.2	39	NNW	1	c	1021.1	+3	34	-5	–	0	–	b	1	1	41	32				
	C. Gris Nez ...	1014.6	43	NNE	5	o	1020.2	+1	36	-11	E	2	*	bc	2	–	48	36				
	La Hève	1016.7	46	NW	5	o	1020.7	*	39	-7	E	3	*	m	2	–	50	37				
	Brest (St. Mathieu)	1021.6	47	NNW	3	f	1017.6	-1	50	0	S	2	*	o	3	2	52	46				
	Rochefort (Ile d'Aix)	1021.7	51	WNW	7	o	1019.9	0	50	-1	WNW	6	*	o	*	1	54	50				
	Biarritz	1027.0	53	WNW	3	r	1021.9	-2	50	-4	SW	3	*	o	4	1	54	48				
	Paris	1015.1	48	WNW	3	o	1020.7	+2	36	-14	NE	1	NE	b	*	1	50	36				
	Belfort	1013.3	40	W	6	o	1021.3	*	32	-12	E	4	*	c	*	1	46	32				
	Lyons	1017.0	50	NNE	2	o	1019.9	*	43	-6	NW	3	*	o	*	–	53	42				
	Nice	1003.8	59	S	4	b	1008.3	+1	51	-5	–	0	*	b	3	–	66	46				
	Perpignan ..	1019.0	57	NW	6	c	1019.1	-2	54	-3	NW	4	W	b	*	–	64	52				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031.5	55	NW	4	bc	1024.4	-4	48	-6	S	3	–	o	2	–	57	46				
	Madrid (6 a.m.)	1025.1	59	–	0	b	1024.8	-1	36	-5	–	0	–	bc	*	–	59	34				
	Lisbon (9 a.m.)	1026.4	55	NNW	5	b	1022.0	-2	50	0	NNW	4	–	b	5	–	59	50				
	Gibraltar							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1010.9	+1	57	+2	NNW	5	–	c	5	–	59	55				
	Azores (Horta, 8 a.m.)	1031.0	*	SSW	5	c	1028.4	-2	60	0	SW	5	*	o	3	–	66	59				
	Madeira (Funchal)	1027.8	63	E	4	c	1025.3	-1	55	0	NE	3	NE	c	2	–	66	55				
YESTERDAY'S REPORTS				18th ..., 8 P.M. G.M.T.							19th ..., 7 A.M. G.M.T.											
ITALY.	Venice	1008.9	46	.	0	b	1002.4	0	37	0	.	0	*	b	2	–	*	*				
	Turin	1008.9	43	.	0	b	1003.4	0	37	+1	.	0	*	b	*	–	*	*				
	Florence	1010.7	43	.	0	b	1004.2	0	43	+7	.	6	*	o	*	1	*	*				
	Pesaro	1010.2	39	SW	3	bc	1002.9	0	43	-2	S	3	*	o	3	–	*	*				
	Leghorn	1012.1	54	W	4	b	1005.5	0	54	+6	W	3	*	bc	5	–	*	*				
	Rome	1012.3	43	.	0	b	1005.4	0	41	+2	NE	3	*	bc	*	–	*	*				
	Brindisi	1010.9	43	NW	4	o	1007.4	0	43	-2	.	0	*	o	3	4	*	*				
	Cagliari	1016.4	52	NW	5	r	1010.9	0	48	+2	NW	5	*	c	7	7	*	*				
	Palermo	1016.2	52	NW	4	c	1010.7	0	57	+3	NW	4	*	b	5	1	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

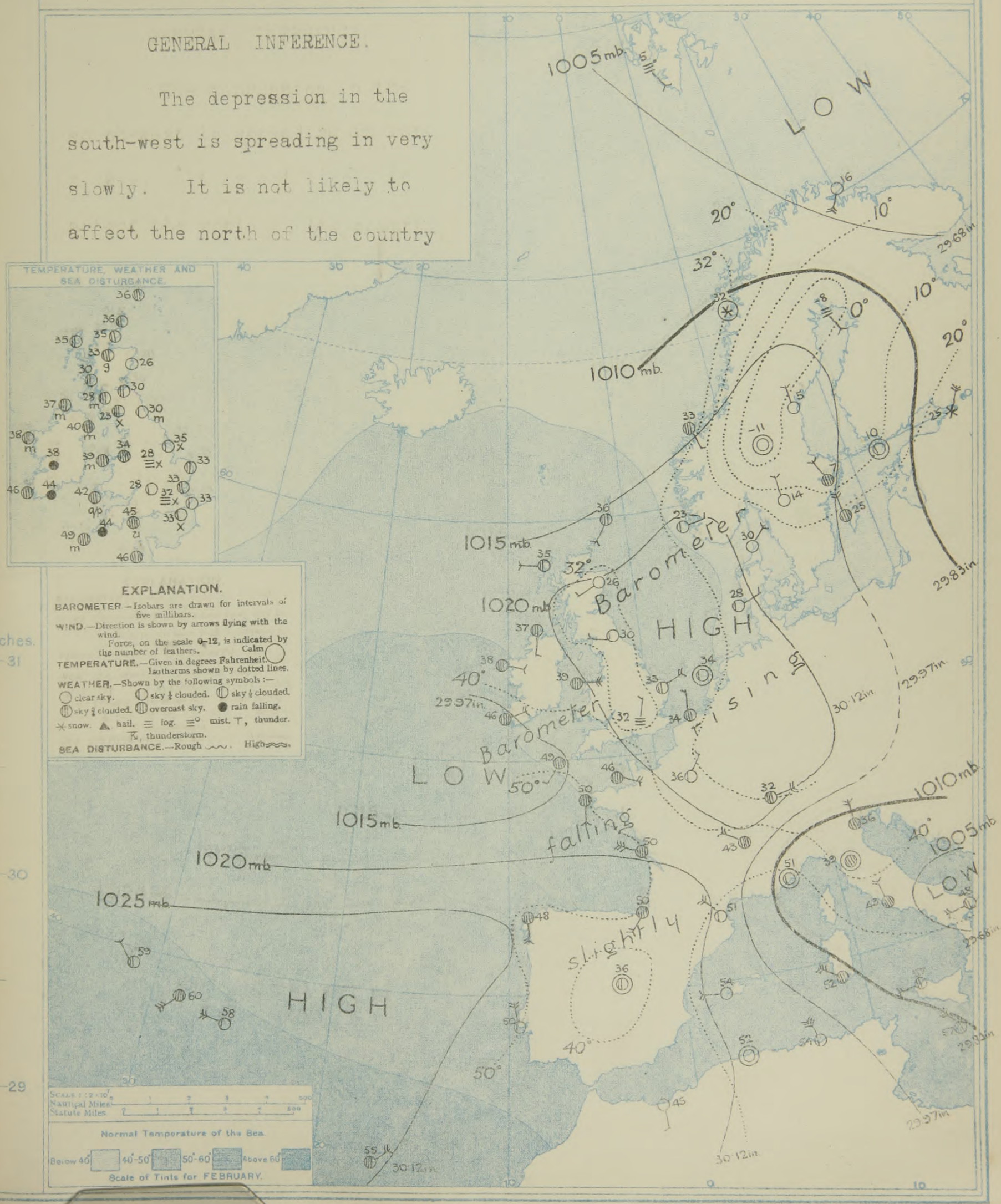
0 a, b; 1; 2 a, b	Calms or light variable airs; fair weather; rather cold.
3; 4 a, b; 5	Calms at first then light winds between South and East; fair at first, less settled later; some mist and fog; temperature rather cold.
6 a, b	Same as Nos. 0 to 2.
7 a, b; 8 a, b; 9 a, b; 10 a, b	Light or moderate winds from between South and East; dull, some rain; temperature normal.
Western Channel and Bay 11	Moderate Southerly or South-Easterly winds, sea slight; dull, some rain.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 20TH FEBRUARY, 1916.



Issue No. 19.813.

DAILY WEATHER REPORT.

Sunday, 20th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	1916 AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	1916 AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Helsingfors ...	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Hangö	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	993·6	30	SSW	4	0	1000·6	+4	23	-11	SW	3	—	0	*	—	34	21
Moscow	1006·4	34	SSE	3	S	1006·7	0	32	-2	SE	4	*	9	*	?	*	32
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	*
Kishinev	995·8	32	NNW	5	0	987·3	0	32	-7	NW	5	*	S	*	4	*	32
Elisabetgrad ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Nicolaiev	995·3	43	SSE	4	r	990·3	*	39	-2	SSW	6	*	0	3	10	*	39
Odessa	993·1	43	S	4	r	992·7	0	35	.	NW	5	*	0		14	*	34

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	21	45	34	b	b	7·2
	Banff	2	42	29	bc	bc	7·1
	St. Andrews				*	*	
Eng., N.E.	Harrogate	3	40	35	o	o.c	0·0
	Skegness	1	43	38	og	op.b	0·9
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	1	43	39	o.c	c.b.	0·7
Midlands.	Buxton	15	42	35	r.c.b	o	0·3
	Leamington Spa	1	47	36	opp	f.o.c	0·0
	Malvern						
	Ross-on-Wye	0·2	50	39	bem	bem.c	1·3
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno						
	Aberystwyth	3	45	42	c	c	1·7
	Tenby	—	47	38	bc	b.	3·7

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	0·2	45	36	o	o.bc	0·0
	Walton-on-Naze	0·3	45	37	c.c	o.c.b	0·0
	Southend-on-Sea	0·3	47	37	odp	o.c	0·0
England, S.E.	Margate	0·4	46	37	op	o	0·0
	Ramsgate	2	45	40	r.o	o	0·0
	Hastings	1	50	42	op.bc	bc.or	1·6
	Eastbourne	1	51	44	o	o.bc.b.o	1·1
	Seaford	—	51	43	o	o.or	1·5
	Brighton	1	49	42	o.c.or	o.c.p	1·5
	Worthing	—	51	44	c	c	0·2
	Littlehampton	—	50	43	o	o	0·0
	Bognor						
	Southsea						
	Bournemouth	1	49	46	o	c.o	0·3
England, S.W.	Weymouth	0·2	51	42	o.bc	bc	0·3
	Torquay	—	53	44	o.c	c	1·8
	Paignton	0·3	52	48	bc	o	2·3
	Penzance	1	52	48	bc	bc.c	5·0
	Newquay	*	50	45	c.bc	bc.c	1·9
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-Day.)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	83	100	0·0	49	27	25	0·3	c.o.or	or.o	o.cmx
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	89	0·1	50	34	31	2	oc.o	od.bc	bm
Camden Sq. (Brit. Rainfall)	88	100	0·7	51	29	27	1	bc.o	or.o	*
Hampstead (Reservoir) ...	*	90	0·0	41	35	26	—	c.op	bem	bm
Richmond Park ...	*	*	0·1							
Kew. (See front page.)	*	*	0·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	81	81	0·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
276 Joules	7·5 Milliwatts.	40 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	—	48	42	39	eq.b.	bc	c	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	0·5	49	37	38	c.o	o	o.c	0·2
Oxford to 8 p.m.	*	51	25	28	bc.c	c.og	op.c.b	*
Teignmouth to 9 ,,	—	54	44	43	c	c	c.bc	0·4
Plymouth ,,	—	52	48	—	oq	borq	beq	2·6
S. Kensington (Museum Grounds to 6 p.m.)	1	53	42	40	bc.b.o	o.bc.op	or.o	*

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

20th & 21st February 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.2 7.0	12.7 12.7	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	7.41 7.41	12.55 12.56	6.1 6.3

PILOT BALLOON ASCENTS for the PAST WEEK

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

Station, Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	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 12th 11.55 a.m.		Benson 14th 12.11 p.m.		S. Farnborough 15th 9.23 a.m.		Benson 15th 12.3 p.m.		Benson 16th 12.15 p.m.		S. Farnborough 17th 7.18 a.m.		Aberdeen 18th Noon.	
Height in Kilometres 2	+10	−10			(17)+28	−12					+15	−15	−1	+6
1	+5	−7	(79)+20	+13	+26	−10	(75)+48	−4	(79)+35	−3	+26	−17	+1	+4
.5	+5	−5	+18	+14	+18	−3	+14	−2	+22	−1	+13	−2	−2	+5
0	+3	−3	+8	+1	+5	+1	+6	+0	+13	0	+7	+1	−1	+2

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 52 — Monday, 21st February

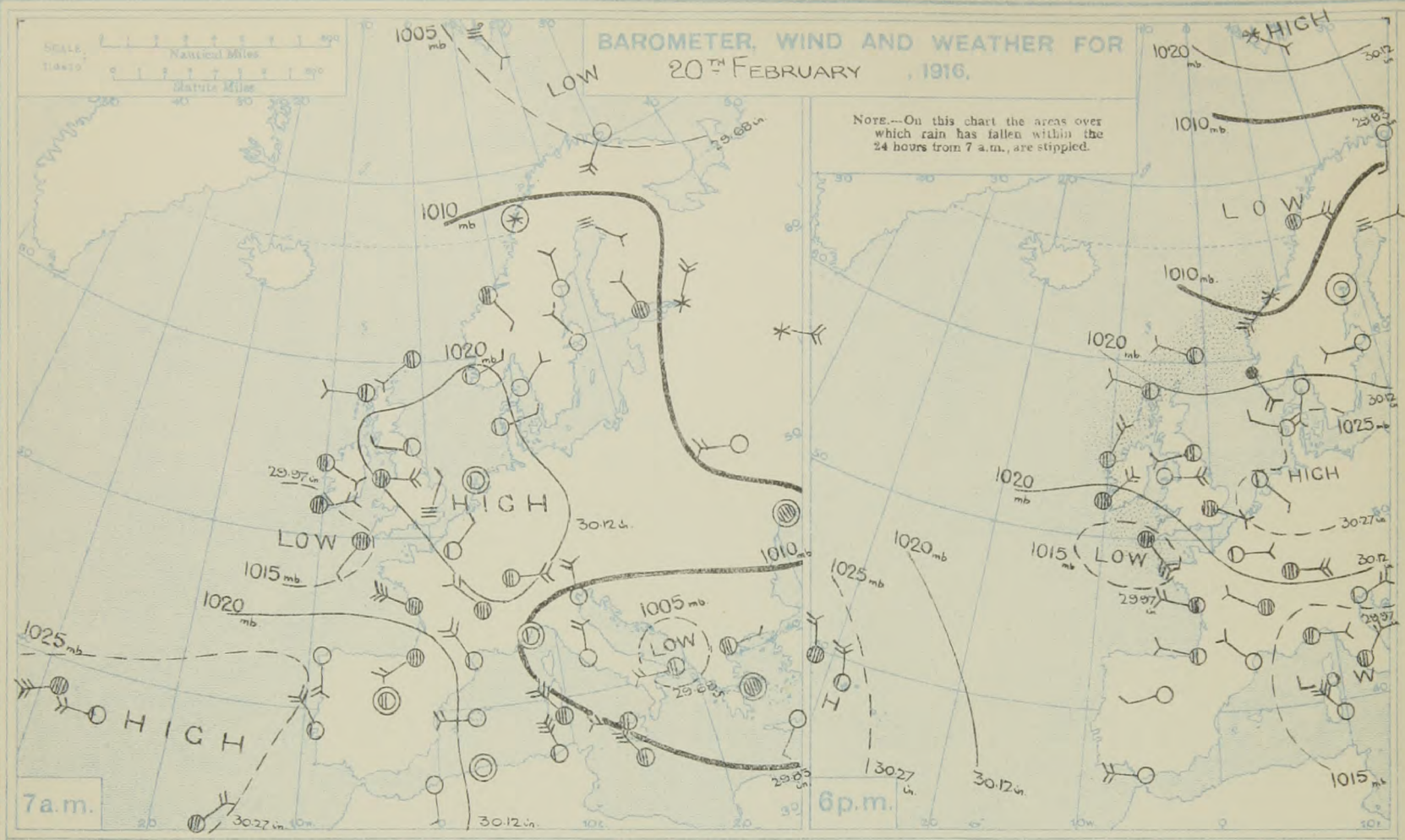
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1016·1	38	WNW	2	bc	1018·4	+1	36	0	N	4	N	bc	4	3	43	32	bcp	bc	bcp	*
	Deerness (Orkney)	1018·6	37	W	4	cp	1021·7	*	38	+2	NW	5	-	c	4	4	48	35	bcp	bc.cp	cp	4·5
	Stornoway ...	1021·6	39	WNW	2	bcp	1026·0	+6	36	+1	N	3	-	c	3	3	46	33	bcp	bcp	bcp.c	5·6
	Castlebay (Barra Isd.)	1022·9	41	WNW	2	b	1026·0	+2	40		NNW	3	NW	bc	3	3	45	37	cp.bc	bc	o.cp.bc	5·8
	Glasgow ...	1023·4	35	W	1	m	1024·3	+1	33	+5	SW	1	NW	cm	*	0·1	38	27	x.cm	cm	m.bc.cx	0·2
	Eskdalemuir ...	1024·2	31	-	0	bc	1024·8	0	23	0	-	0	N	cx	*	-	40	20	x.o	o.c	bcx	2·3
	Malin Head ...	1023·1	40	SE	2	cm	1024·5	0	40	+3	NNE	3	N	bc	3	1	45	36	cm	cm	bcp	0·2
	Blacksod Point	1021·9	40	NNE	3	bc	1025·9	+2	40	+2	N	3	NE	cp	2	1	44	36	bc	bc	bc.cp	*
	Valencia ...	1017·3	42	NE	4	o	1024·2	+3	37	-9	NE	2	NW	b	3	-	46	36	o	o	o.c.bc.b	0·0
	Roche's Point	1016·2	41	NE	4	ome	1022·3	*	38	-6	NNE	3	-	b	3	9	47	38	d.f.m.	d.me	r.om	*
	Birr Castle ...	1019·9	41	NE	1	r	1025·0	*	29	-9	E	1	-	b	*	1	42	29	od.r	od.r	o.c.bx	0·0
	Donaghadee ...	1022·6	40	SE	3	bcm	1024·5	0	36	-4	W	2	W	cf	1	-	43	35	*	cf	bcmx.f	*
	Liverpool (Bidston)	1022·5	39	E	2	o	1023·7	0	32	-2	E	1	-	m	1	-	41	32	cm	cm	bmx	0·5
	Holyhead ...	1020·5	42	E	2	ogm	1022·7	+1	38	-1	ENE	5	-	bcm	4	-	44	38	ogm	ogm.	o.c.bcm	0·0
	Pembroke (St. Ann's)	1016·8	41	SE	4	or	1019·7	+1	38	-4	ENE	3	-	o	2	12	42	37	op.or	or	or	0·0
	Scilly (St. Mary's)	1011·9	49	SE	5	omd	1011·5	0	47	-2	ENE	4	-	om	4	3	53	46	om	cm.omd.	fd.omd	2·4
	Falmouth ...	1014·5	47	ESE	4	omd	1013·4	+1	45	+1	NE	4	-	o	*	12	48	43	od.	od.qr.d	or.se	0·0
	Jersey (St. Aubin)	1016·8	46	ESE	5	o	1013·8	*	43	-3	ESE	5	-	or	4	17	48	43	o.c.o	o.	or	0·0
	Portland Bill ...	1018·5	43	ESE	5	cr	1016·0	-2	42	-3	E	6	-	cr	6	5	46	41	cp	cd.	c.or	*
	Dungeness ...	1021·8	42	SE	3	c	1019·8	0	39	+6	SE	3	S	c	3	-	46	33	c.o	o.c	ch.c	*
	Dover	1022·4	41	ENE	3	c	?	0	38	+5	SE	4	-	bc	4	-	44	36	bc	bc.c.	c.bc	1·6
	Wick	1020·2	37	W	2	c	1022·8	+3	36	+1	N	3	N	c	2	2	43	34	bc	bcp	omr.bc	*
	Nairn	1021·8	34	W	1	bc	1025·2	*	36	+3	NW	1	-	cu	2	0·4	40	33	bc	bc.b	cgp	6·7
	Aberdeen ...	1022·1	36	W	1	bc	1022·8	+1	37	+11	WNW	4	-	o	2	-	44	25	b.bc	c.o.bc.	b.bc.o	2·8
	Leith	1022·2	36	SW	1	bc	1023·6	+1	36	+6	W	1	W	c	2	-	40	30	b	b	b	*
	Tynemouth ...	1023·2	38	SW	2	cm	1023·3	-1	30	0	W	2	N	bm	3	-	39	30	cm	cm	bm	*
	Spurn Head ...	1023·8	40	SE	3	bc	1024·5	0	36	+1	-	0	-	bc	2	-	43	33	bc	bc	bc	1·2
	Yarmouth ...	1024·1	39	ESE	2	bc	1023·8	0	38	+5	SSE	2	-	bcm	2	-	44	33	bc	bc	bc.cm	3·5
	Clacton-on-Sea	1023·9	41	E	3	c	1021·9	0	40	+7	ESE	3	-	c	2	-	44	32	bc	bc.c	c.bc.c	3·2
	Nottingham ...	1022·8	37	E	1	o	1023·1	*	32	+4	ENE	1	E	c	*	-	41	27	fm.c	c.o	o.c.b	0·2
	Benson (Oxon.) ...	1021·4	40	E	3	o	1020·9	-1	35	+7	ENE	4	-	o	*	-	42	28	bm	o	c	*
	Sth Farnborough	1021·3	41	SE	1	o	1020·1	-1	35	+4	ENE	2	-	om	*	-	44	29	f.oz	o	om	0·2
	London (Kew Obsy.)	1022·3	41	ESE	2	o	1021·2	-1	36	+4	E	2	E	cm	*	-	44	31	fc.om	cm	om.cm	0·0
NORTHERN EUROPE.	Spitsbergen ...	1022·3	-13	SE	2	s	1014·7	+2	1	-4	-	0	*	o	*	*	5	-17				
	Vardö	1007·0	19	SSW	1	b	1011·0	?	18	+2	SW	5	-	b	3	*	19	16				
	Bodö	1007·4	30	E	4	c	1006·0	+1	25	-7	E	2	-	o	2	?	30	23				
	Christiansund	1008·2	36	SW	5	s	1010·9	0	32	-2	SW	2	-	o	4	8	37	30				
	Skudesnaes ..	1018·4	36	SSE	3	r	1013·9	0	36	+3	NW	6	-	o	2	9	34	23				
	Færder (Christiania Fjord)	1019·4	30	SW	2	b	1013·9	+2	36	+13	SW	6	-	o	3	-	30	23				
	The Scaw (Skagen)	1021·2	22	SW	2	b	1019·0	-3	34	+4	WSW	4	-	bc	4	-	37	28				
	Blaavands Huk	1025·3	36	NW	1	b	1023·7	0	37	+9	WSW	4	-	o	3	-	37	27				
	Haparanda ...	1016·5	-2	E	2	f	1017·6	+1	1	+9	SSE	2	-	f	*	Trace	1	-8				
	Hernösand ...	1016·0	9	-	0	b	1014·0	0	3	-2	-	0	-	b	*	-	23	0				
	Stockholm ...	1019·0	19	W	2	b	1018·3	-1	16	+9	S	2	-	c	*	-	21	7				
	Wisby	1019·4	27	NNE	4	c	1021·0	0	25	0	SSW	2	-	b	2	-	28	23				
	Karlstad	1021·1	7	-	0	b	1015·1	-3	30	+16	-	0	-	o	*	-	30	9				
FRANCE, &c.	The Helder ...	1025·3	36	SE	1	b	1025·3	-1	28	-6	S	1	NW	c	1	-	41	27				
	C. Gris Nez ...	1021·6	40	ESE	1	bc	1021·1	0	33	-3	SE	3	*	c	2	-	46	32				
	La Hève	1017·5	46	E	3	o	1017·5	*	37	-2	ESE	4	*	m	2	-	50	34				
	Brest (St. Mathieu)	1014·7	50	SE	3	f	1012·0	0	49	-1	WSW	2	*	f	1	1	52	48				
	Rochefort (Ile d'Aix)	1019·7	50	WNW	3	c	1016·0	0	47	-3	S	4	*	o	*	-	55	46				
	Biarritz	1019·5	52	WNW	2	bc	1016·2	0	44	-9	ESE	2	*	b	3	-	55	39				
	Paris	1021·2	39	ENE	2	b	1020·7	-1	32	-4	ESE	2	-	bc	*	-	46	32				
	Belfort	1021·7	35	E	4	o	1004·4	*	27	-5	E	4	*	b	*	-	43	25				
	Lyons	1019·8	42	NW	2	o	1021·2	*	30	-13	-	0	*	b	*	-	49	29				
	Nice	1010·4	50	E	2	c	1017·0	+4	44	-7	E	3	*	b	3	-	63	44				
	Perpignan ..	1016·6	54	NW	2	b	1017·0	0	39	-15	-	0	-	b	*	-	63	37				
	Sanguinaire ...	*	56	NW	4	m	*	*	50		E	2	*	m	4	-	63	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1016·7	55	WSW	1	b	1018·3	+2	37	+1	-	0	-	b	*	-	55	34				
	Lisbon (9 a.m.)																					
	Gibraltar	1016·9	53	W	4	b	1015·9	*	49		W	3	*	b	1	-	62	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·7	+2	54	-3	NW	3	W	bc	2	Trace	59	54				
	Azores (Horta, 8 a.m.)	1026·4	*	NNW	4	b							*									
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		19th ... 8 P.M. G.M.T.					20th February, 7 A.M. G.M.T.															
ITALY.	Venice	1005·5	46	-	0	bc	1007·9	0	36	-1	N	3	*	b	1	-	*	*				
	Turin	1003·9	54	W	4	b	1008·9	0	46	+9	-	0	*	c	*	-	*	*				
	Florence	1003·7	46	-	0	b	1007·4	0	39	-4	-	0	*	b	*	-	*	*				
	Pesaro	1002·2	43	-	0	b	1007·7	0	43	0	SW	3	*	b	3	-	*	*				
	Leghorn	.	.	.	.	.	1008·7	0	43	-11	-	0	*	bc	1	-	*	*				
	Rome	1005·6	46	S	2	bc	1007·3	0	43	+2	N	3	*	b	*	-	*	*				
	Brindisi	1004·3	50	W	3	o	1004·2	0	48	+5	W	3	*	bc	2	Trace	*	*				
	Cagliari	1012·4	54	NW	4	b	1010·9	0	52	+4	NW	5	*	c	6	Trace	*	*				
	Palermo	1009·3	57	SE	3	c	1009·5	0	57	0	W	3	*	bc	4	-	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

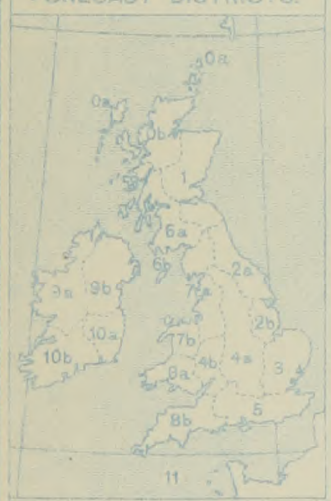
mm.	Inches	mm.	Inches
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



0 a, b, 1	Moderate North-Easterly winds and fair weather; cold.
2 a, b	Light variable, then Easterly winds; fair; cold.
3, 4 a, b, 5	Moderate or fresh Easterly winds; some rain at times, fair intervals; rather cold.
6 a, b	Same as Nos. 0 and 1.
7 a, b	Moderate Easterly winds; fair, some mist; cold.
8 a, b	Same as Nos. 3 to 5.
9 a, b, 10 a, b	Same as Nos. 0 and 1.
Western Channel and Bay 11	Light cyclonic circulation; dull, some rain, mist and fog; moderate sea.

STORM WARNINGS.

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

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

No Warnings Issued.

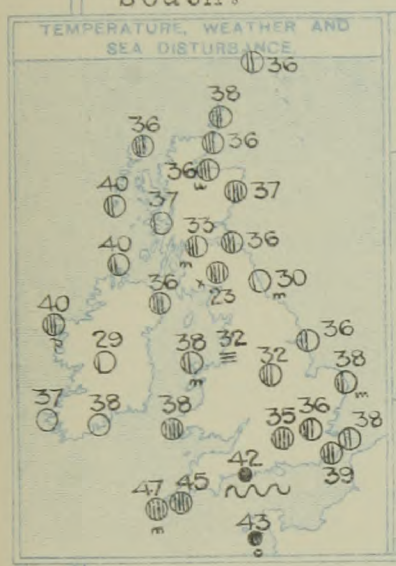
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 21ST FEBRUARY, 1916.

GENERAL INFERENCE.

The depression off the mouth of the Channel is likely to remain in the Bay region and to cause unsettled weather in the south.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

Scale 1:12,000,000
Nautical Miles
Statute Miles

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

Issue No. 19814.

DAILY WEATHER REPORT.

Monday, 21st February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	19 at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	20 at 7 A.M. local time: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1008·7	-6	W	1	b	1014·0	+3	-6	.	SE	2	*	0	*	-	*	*
Helsingfors ...	1010·0	12	NW	1	b	1010·7	0	5	.	N	2	*	0	0	-	*	*
Hangö	1010·0	19	-	0	0	1011·8	+2	10	.	-	0	*	b	0	-	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1008·2	16	NW	2	0	1005·5	-2	25	+2	NE	4	-	S	*	-	25	14
Moscow	1008·6	23	SE	7	0	1009·1	+1	21	-11	SE	7	*	0	*	1	*	25
Kiev	1009·0	27	WNW	4	0	1006·7	+4	16	.	WNW	3	*	b	*	8	*	14
Kharkov	1002·3	34	S	3	r	1008·3	+3	32	.	SSW	1	*	0	*	2	*	*
Kishinev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Elisabetgrad ...	1010·6	32	W	4	0	1008·8	+5	27	.	W	1	*	0	*	-	*	25
Nicolaiev	1005·9	34	WNW	2	bc	1010·3	*	28	-11	-	0	*	0	0	-	*	27
Odessa	.	.	.	.	.	.	.	.	.	.	.	*	-	-	.	*	.

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	-	43	29	bbc	0	3·2
Scotland.	Banff	-	43	25	bc	bc	5·8
Scotland.	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	37	28	0.c	0.c	0·0
Eng., N.E.	Skegness	0·1	42	30	0·bc	bc.0	3·6
Eng., N.W.	Morecambe						
Eng., N.W.	Blackpool						
Eng., N.W.	Southport	-	43	30	0.c	0	0·0
Midlands.	Buxton						
Midlands.	Leamington Spa	-	41	29	0.c	0.c	0·4
Midlands.	Malvern	-	40	31	0	0	0·0
Midlands.	Ross-on-Wye	-	41	29	0m	0mr	0·0
Wales.	Rhyl	-	41	33			0·0
Wales.	Colwyn Bay	-	53	34	c.0	0	0·0
Wales.	Llandudno	-	42	32	c	c	0·0
Wales.	Aberystwyth	1	44	39	0.c.0	or	0·0
Wales.	Tenby						
England, E.	Lowestoft						
England, E.	Felixstowe	-	43	30	bc	bc	5·7
England, E.	Walton-on-Naze	-	43	32	bc	bc.c	4·4
England, E.	Southend-on-Sea	-	45	32	bz.bc	b.bc	7·2
England, S.E.	Margate	-	45	39	b	bc	4·8
England, S.E.	Ramsgate	-	44	35	bc	c	4·0
England, S.E.	Hastings	-	45	35	0.c	b.bc	2·9
England, S.E.	Eastbourne	0·3	44	34	0	0.bcm	1·6
England, S.E.	Seaford						
England, S.E.	Brighton						
England, S.E.	Worthing	-	45	35	c	c	0·2
England, S.E.	Littlehampton	-	47	37	0	bc.0	0·3
England, S.E.	Bognor						
England, S.E.	Southsea	-	45	36	0	0	0·0
England, S.E.	Bournemouth	1	45	33	0	0	0·0
England, S.W.	Weymouth	2	44	39	or.c	c.0	0·0
England, S.W.	Torquay	3	46	40	or	or	0·0
England, S.W.	Paignton	8	46	?	od.0	0.od	0·0
England, S.W.	Penzance						
England, S.W.	Newquay	*	47	40	0.cd	op	0·0
England, S.W.	Ilfracombe						
England, S.W.	Weston-super-Mare ...	0·3	43	35	od	d.0	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 A.M. To-Day)	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	73	90	1·0	44	33	30	–	e	e	e.0
City (Bunhill Row)	*	*	0·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	97	86	0·1	44	37	35	–	bem	bc.0	ome
Camden Sq. (Brit. Rainfall)	–	85	0·0	43	34	30	–	–	–	*
Hampstead (Reservoir) ...	*	82	0·0	41	35	26	–	0.c	c	ox.0
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	72	78	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
445 Joules	12·1 Milliwatts.	24 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall. mm §	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	4	42	39	36	3·0	or	or	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	44	34	28	o.c.ox	c.0	om	*

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

21st & 22nd February, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.0 / 6.59	12.7 / 12.7	5.14 / 5.16
Greenwich	7.5 / 7.4	12.14 / 12.14	5.23 / 5.25
Wick	7.32 / 7.30	12.26 / 12.26	5.20 / 5.23
Valencia	7.47 / 7.45	12.55 / 12.55	6.3 / 6.5

NOTES ON YESTERDAY'S WEATHER.

Fairly heavy rain has fallen in the south-west, but little elsewhere. The day was bright in the extreme north, but in the south sunshine was measured at only a few isolated stations. The night was cold inland, down to 20° at Eskdalemuir.

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

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

* The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 53.

Tuesday, 22nd February,

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1024·2	34	N	5	cm	1025·6	+1	35	-1	N	4	N	bc	4	2	38	31	bc.c	csp	bcsp	*
	Deerness (Orkney)	1026·1	35	NW	5	c	1026·1	*	36	-2	N	5	N	bc	4	–	39	34	c.o	o.chp	c.bc	0·6
	Stornoway ...	1030·2	36	NW	3	bcp	1029·8	+1	35	-1	NNE	4	–	c	4	2	41	34	c.o	o.bcp	cp	1·0
	Castlebay (Barra Isd.)	1030·8	40	N	3	o	1030·2	0	39	-1	NNW	3	NW	bc	3	0·2	44	36	bc	b.o	bc.o.bc	3·8
	Glasgow ...	1028·9	35	–	0	b	1027·6	-1	33	0	NW	1	–	b	*	0·1	42	30	bc.c.b	b	b.bc.b	5·6
	Eskdalemuir ...	1028·1	33	N	2	bc	1026·4	-1	31	+8	NW	4	N	bcz	*	0·2	38	23	cz.o.c	bc.b.bc	b.o.bcz	6·6
	Malin Head ...	1029·6	40	NE	5	bcq	1028·6	-1	40	0	NE	4	N	bcq	5	?59	43	36	bcq	bcq	bcp	7·0
	Blacksod Point	1029·9	41	NNE	4	bc	1029·7	-2	40	0	N	3	NE	cp	2	?25	44	32	bc	bc	bc.cp	*
	Valencia ...	1027·2	44	NNE	4	bc	1030·9	0	38	+1	NE	3	N	b	3	–	45	35	b.bc	bc	bc.b	7·2
	Roche's Point	1025·8	41	NNE	3	bc	1029·7	*	36	-2	N	2	–	b	2	0·3	45	35	bcq	c.bcq	bc	*
	Birr Castle ...	1026·8	41	N	2	bc	1030·4	*	33	+4	NNW	1	–	o	*	–	45	28	c	bc	bcz.o	5·6
	Donaghadee ...	1028·2	42	NE	4	cm	1027·6	0	39	+3	N	4	N	bcm	4	Trace	43	36	bc	bcm	bcmp	*
	Liverpool (Bidston)	1025·1	39	E	2	m	1025·7	0	36	+4	NNW	3	–	c	3	–	42	32	bm	bm	bc	3·6
	Holyhead ...	1025·3	41	ENE	4	bm	1026·3	-1	40	+2	NNE	5	NE	bcm	4	–	44	37	bcm	bcm	bcm	0·0
	Pembroke (St. Ann's)	1023·2	37	ENE	2	b	1026·8	0	37	-1	NE	2	NE	c	2	–	41	32	o.c	bc	b.bc.c	2·3
	Scilly (St. Mary's)	1018·2	41	ENE	5	o	1022·9	+1	41	-6	NE	5	NE	cq	6	5	48	39	omrq	omrq	omr.cq	0·0
	Falmouth ...	1019·2	38	NNE	5	cq	1025·1	+2	34	-11	NE	3	–	bz	*	5	45	33	r	r.o.c	c.bc.b	0·0
	Jersey (St. Aubin)	1013·4	39	NE	5	omr	1020·5	*	39	-4	NE	4	NE	bc	4	14	45	38	omr	omr.d.r	mr.o.bc	0·0
	Portland Bill ...	1018·9	40	ENE	6	o	1022·5	+1	35	-7	NNE	5	–	bz	3	7	46	34	or	r.o	o.c.bc	*
	Dungeness ...	1018·9	39	ESE	4	o	1018·9	0	32	-7	N	2	N	bcz	2	–	40	30	c.o	c.o	o.bcz	*
	Dover ...	1020·6	37	ENE	4	o	1019·1	-1	34	-4	NNW	4	NW	bc	2	–	38	33	o	o	bcq.bc	0·0
	Wick ...	1027·0	37	NNW	2	o	1026·8	+1	37	+1	N	4	N	c	4	1	40	33	c.omq	omq	bchsp	*
	Nairn ...	1028·8	35	NNW	1	cq	1027·8	*	35	-1	NE	2	–	cq	3	2	38	31	bc.cq	cq	csqp	0·7
	Aberdeen ...	1027·1	36	NW	3	o	1025·3	+1	34	-3	NNW	3	–	c	3	2	42	33	o.bc.b	bc.c.o	o.bcsp	4·4
	Leith ...	1027·3	40	N	1	c	1026·2	-1	36	0	NW	2	NW	c	4	–	43	34	c.o.c	c.bc	c.bc	*
	Tynemouth ...	1025·7	41	N	4	cmqp	1023·5	-3	35	+5	NNW	3	N	cm	5	2	41	30	omqp	bcqp	cmsp	*
	Spurn Head ...	1023·3	40	NNE	3	r	1020·9	-1	35	-1	NNW	5	–	cqpsh.	5	5	43	32	bc	bc.or	bcq	5·7
	Yarmouth ...	1023·5	38	ENE	3	c	1017·8	-3	34	-4	NNW	2	–	bc	2	Trace	43	33	bcm	cm	bcsp	0·0
	Clacton-on-Sea	1021·2	39	NE	2	o	1019·2	-1	34	-6	NW	3	N	c	2	0·3	41	32	c.o	o	o.csp	0·0
	Nottingham ...	1023·8	37	NNE	2	b	1022·7	*	34	+2	NW	3	NW	om	*	Trace	41	32	cm	c.b	bcp.b	4·1
	Benson (Oxon.) ...	1021·8	37	NE	3	c	1022·8	-1	32	-3	N	4	–	b	*	–	40	30	o	o	bc	*
	Sth Farnborough	1020·4	37	ENE	1	m	1021·9	0	32	-3	NW	1	–	bcsz	*	–	41	30	m.o	om	m.o.bcz	0·0
	London (Kew Obsy.)	1021·3	39	ENE	3	om	1021·3	0	34	-2	NNW	3	–	omc	*	–	40	32	cm.om	om	o.c.omq	0·0
NORTHERN EUROPE.	Spitsbergen ...	1020·3	-26	–	0	b	1015·5	-3	5	+4	–	0	*	s	*	*	5	-24				
	Vardö ...	1028·8	14	SW	5	b	1019·1	+2	16	-2	SW	3	–	c	3	*	18	12				
	Bodö ...	1011·9	23	E	4	b	1022·3	+5	19	-6	E	2	–	b	2	–	25	18				
	Christiansund	1009·1	37	NW	4	s	1021·3	+7	28	-4	–	0	–	b	4	3	37	27				
	Skudesnaes ...	1015·8	36	NNW	2	c	1017·2	+2	28	-8	N	3	–	b	2	?	36	28				
	Færder (Tønsberg Fjord)	1011·8	34	W	2	b	1016·2	+5	25	-11	N	2	W	bc	1	–	36	25				
	The Scaw (Skagen)	1013·9	36	WSW	3	bc	1014·6	+1	30	-4	–	0	–	b	0	–	37	27				
	Blaavands Huk	1019·0	37	WSW	4	o	1014·3	0	34	-3	N	1	–	o	1	2	39	30				
	Haparanda ...	1017·0	9	SE	2	o	1021·3	+4	10	+9	SE	2	–	o	*	–	10	1				
	Hernösand ...	1013·1	18	N	2	o	1015·8	+4	19	+16	NNW	6	–	s	*	6	19	3				
	Stockholm ...	1014·1	28	S	2	b	1015·5	+3	28	+12	S	2	–	b	*	2	32	16				
	Wisby ...	1017·9	32	SW	2	o	1018·1	+3	32	+7	WSW	4	–	s	*	Trace	34	23				
	Karlstad ...	1012·3	24	SW	4	o	1016·0	+7	14	-16	NW	2	–	b	*	–	36	10				
FRANCE, &c.	The Helder ...	1022·7	34	–	0	c	1015·3	-3	36	+8	N	1	–	bc	1	Trace	39	28				
	C. Gris Nez ...	1021·7	35	?	4	o	1018·0	-1	38	+5	N	5	*	bc	4	?	38	34				
	La Hève ...	1015·4	32	ENE	3	s	1019·1	*	34	-3	NE	2	*	bc	2	4	41	32				
	Brest (St. Mathieu)	1012·4	46	NNE	4	r	1021·1	+3	41	-8	NE	4	*	c	2	2	52	36				
	Rochefort (Ile d'Aix)	1013·3	50	SSW	2	o	1013·6	0	46	-1	N	1	*	o	*	–	54	43				
	Biarritz ...	1011·8	54	ENE	2	bc	1011·5	0	46	+5	S	1	*	bc	2	–	59	45				
	Paris ...	1016·8	39	E	1	o	1016·6	+1	30	-2	N	2	–	o	*	2	43	30				
	Belfort ...	1019·9	33	E	5	o	1013·2	*	28	+1	–	0	*	s	*	2	37	28				
	Lyons ...							*					*		*							
	Nice ...	1017·7	45	–	0	bc	1018·6	-1	41	-3	–	0	*	o	4	–	55	37				
	Perpignan ...	1015·4	50	E	2	o	1014·0	0	39	0	SW	1	–	b	*	–	54	37				
	Sanguinaire ...	*	58	E	3	bc	*	*	50	0	E	3	*	o	2	–	57	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1011·5	55	WSW	1	b	1015·9	+2	41	+4	–	0	–	c	*	–	55	41				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1013·5	57	SE	3	o	1011·5	*	56	+7	E	5	*	o	3	–	61	48				
	Malta (8 a.m.)	*	*	*	*	*	1019·1	+3	54	0	E	1	W	b	1	–	59	52				
	Azores (Horta, 8 a.m.)		*										*									
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		20th..., 8 P.M. G.M.T.					21st. February..., 7 A.M. G.M.T.															
ITALY.	Venice ...	1015·1	45	ENE	3	b	1021·2	0	39	+3	ENE	2	*	b	3	–	*	*				
	Turin ...	1013·4	48	–	0	c	1021·2	0	36	-10	–	0	*	b	*	–	*	*				
	Florence ...	1011·7	46	–	0	b	1016·6	0	45	+6	–	0	*	b	*	–	*	*				
	Pesaro ...	1014·0	45	–	0	b	?	0	41	-2	–	0	*	o	3	2	*	*				
	Leghorn ...	.	.	.	.	.	1017·3	0	46	+3	E	4	*	b	4	–	*	*				
	Rome ...	1010·8	48	NE	3	c	1015·3	0	43	0	N	3	*	bc	*	–	*	*				
	Brindisi ...	1010·2	46	NW	4	bc	1014·8	0	50	+2	NNE	4	*	b	4	9	*	*				
	Cagliari ...	1013·6	52	NW	5	o	1013·5	0	52	0	NW	4	*	b	2	Trace	*	*				
	Palermo ...	1011·4	54	–	0	b	1014·2	0	50	-7	SSW	3	*	b	2	–	*	*				

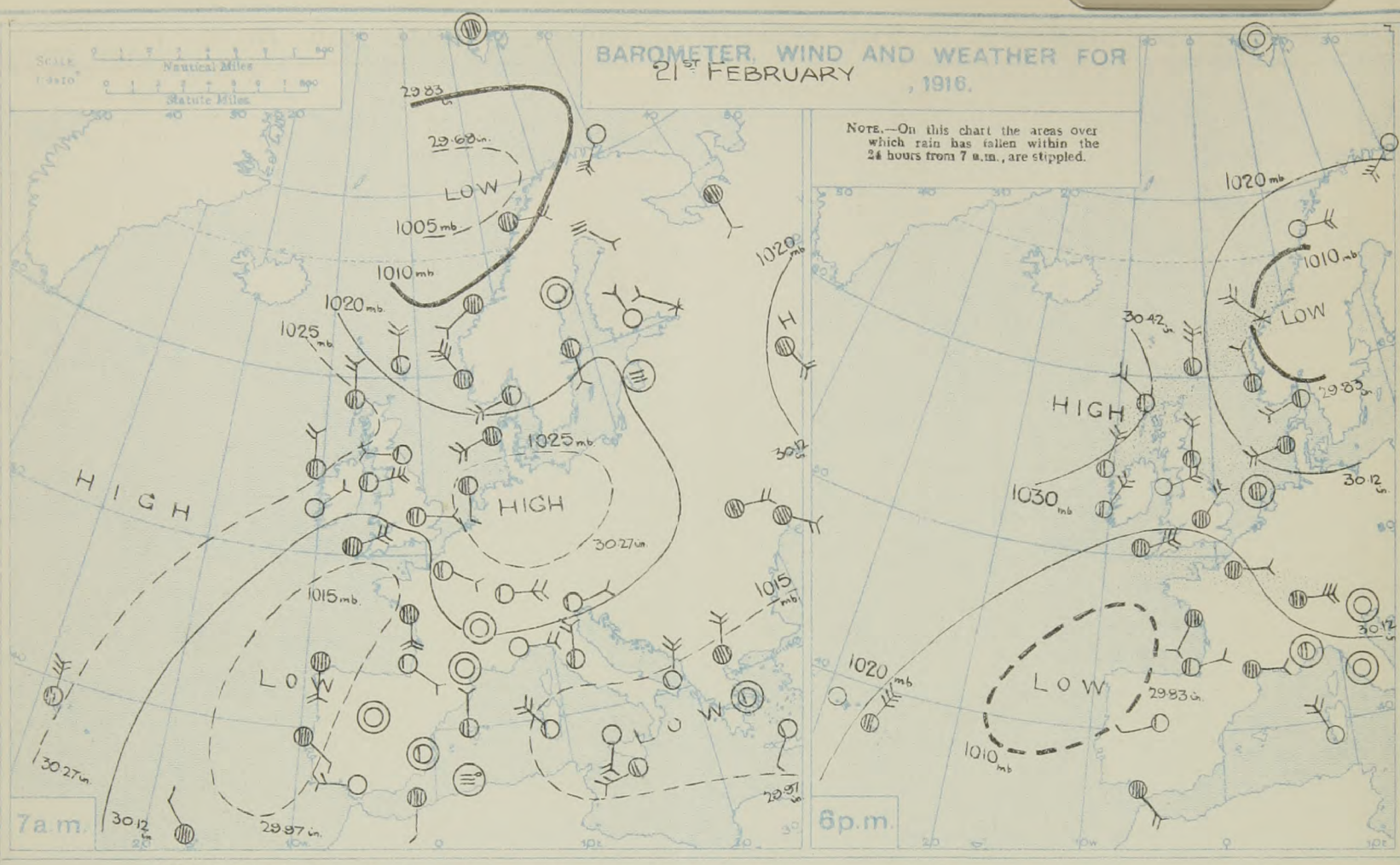
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.0 a.m.

1250 metres	N	30 miles per hour	
1000 "	N by E	35 " " "	
500 "	N	40 " " "	

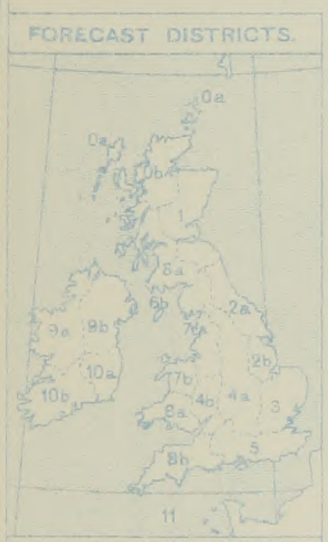
RAINFALL
Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b	Light to moderate breezes between North-West and North-East; generally fair to fine, local cold showers; temperature moderately low.
1	
2 a, b	
3	
4 a, b	
5	
6 a, b	
7 a, b	
8 a, b	
9 a, b	
10 a, b	
Western Channel and Bay 11	Moderate to fresh North-Easterly breeze; sea moderate to rough; fair generally, local mist; cold.

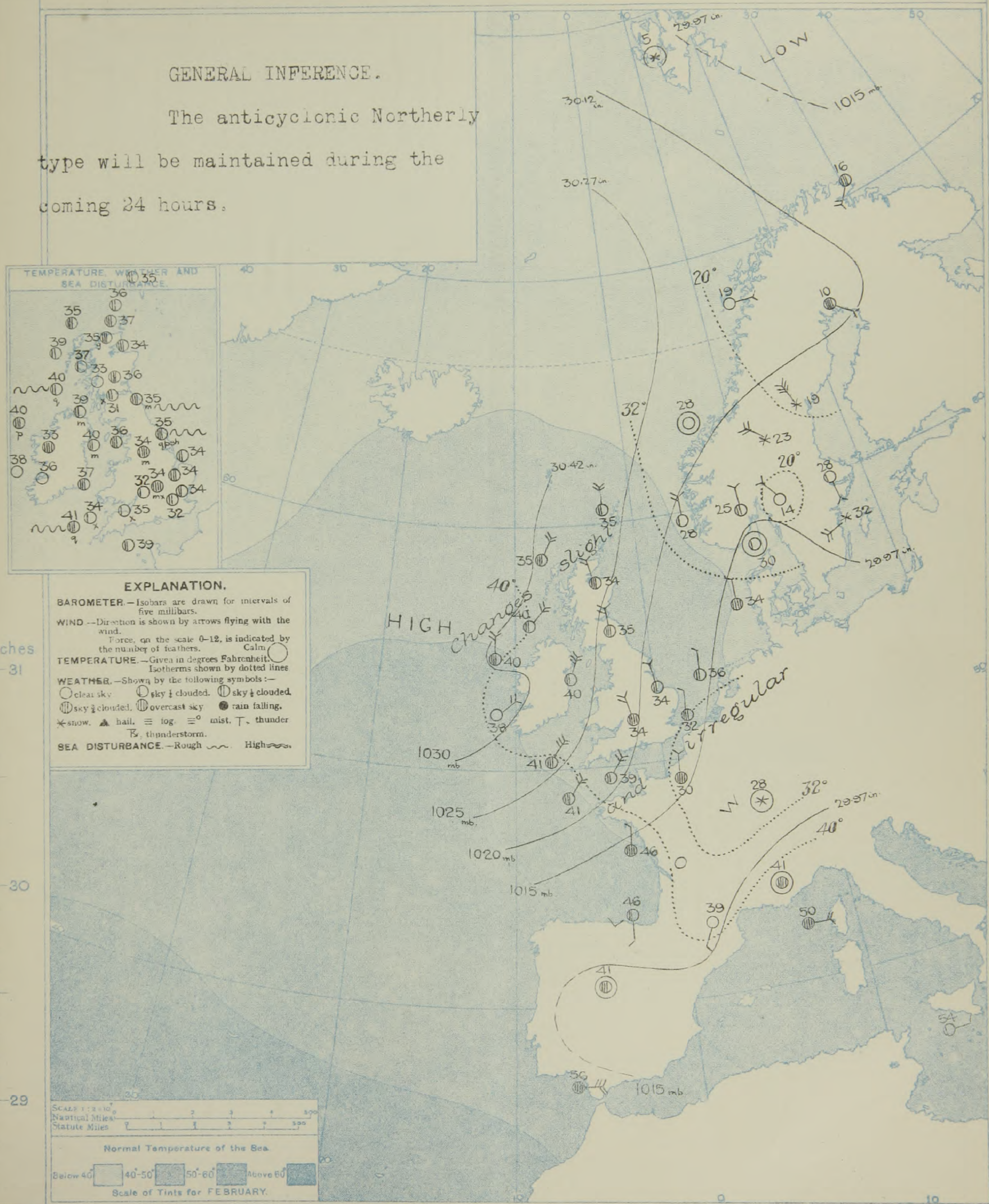
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 22ND FEBRUARY, 1916.

GENERAL INFERENCE.

The anticyclonic Northerly type will be maintained during the coming 24 hours.



Issue No. 19815

DAILY WEATHER REPORT.

Tuesday, 22nd February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	20th. AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	21st. AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1012·4	25	S	2	0	1017·7	+3	25	.	S	2	*	0	+	1	*	23
Uleaborg	1015·5	-2	E	2	b	1016·9	+1	-4	+2	S	2	*	0	*	-	*	*
Helsingfors ...	1014.0	10	N	3	b	1018·7	+1	3	-2	NNW	2	*	b	0	-	*	*
Hangö	1015·4	12	WNW	2	b	1019·8	+1	3	-7	–	0	*	b	0	-	*	*
Riga	?	23	-	0	b	1019·4	+1	21	.	–	0	*	f	0	-	*	*
Petrograd	1008·3	27	NE	2	0	1015·3	+4	18	-7	WNW	2	-	s	*	4	27	18
Moscow	1018·9	21	SE	3	s	1021·1	0	18	-3	SSE	4	*	0	*	4	*	16
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	1012·3	28	ENE	2	s	1019·8	+5	23	-9	SSW	2	*	bc	*	14	*	*
Kishinev	1014.0	34	SE	3	0	1017.0	0	32	.	ESE	3	*	0	*	-	*	25
Elisabetgrad ...	1014.9	30	WNW	2	bc	1019.5	+4	25	-2	–	0	*	c	*	-	*	21
Nicolaiev	1017·7	32	–	0	c	1017·9	*	32	+4	E	2	*	c	0	-	*	27
Odessa	1014·9	34	SSE	2	bc	1016·7	+1	36	.	SE	3	*	0	0	-	*	*

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	44	30	b	b	7·6
	Banff	0·2	43	35	bc	cph	1·3
	St. Andrews	-	44	32	*	*	5·2
Eng. N.E.	Harrogate	-	39	26	bc.b	b.bc.o	3·9
	Skegness	-	42	31	o.bc	bc.ou	3·9
Eng. N.W.	Morecambe	-	42	29	b	b.bc	4·4
	Blackpool						
	Southport	-	44	30	bc.cbc	c.o.c	6·5
Midlands	Buxton						
	Leamington Spa	-	40	38	o.c.bcm	cm	0·0
	Malvern	-	38	32	o	o.c.bc	0·1
	Ross-on-Wye	0·3	39	32	om	cm.bc	0·0
Wales.	Rhyl	-	47	32	b.c	b.bc	5·4
	Colwyn Bay	-	42	31	bc	b.bc	6·7
	Llandudno	-	43	34	b	b	7·3
	Aberystwyth	-	42	36	o.c.b	bc.c	4·0
	Tenby	3	43	38	bc	bc	2·1

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	t	43	35	c	c.o	1·1
	Felixstowe	-	41	34	o	o	0·0
	Walton-on-Naze	-	40	38	bc.o.c	o.c.og	0·0
	Southend-on-Sea	-	41	34	o	o	0·0
England, S.E.	Margate	-	40	36	o	o	0·0
	Ramsgate	-	39	35	cg	g.o	0·0
	Hastings	-	41	36	c.o	o	0·0
	Eastbourne	-	41	37	o	o	0·0
	Seaford	-	41	35	o	o	0·0
	Brighton	-	42	39	o	o	0·0
	Worthing	-	42	38	o	o	0·0
	Littlehampton	2	42	37	o	o	0·0
	Bognor	-	43	36	o	os	0·0
	Southsea	-	42	39	o	o	0·0
	Bournemouth	14	39	37	r.o	o	0·0
England, S.W.	Weymouth	12	40	36	or	o	0·0
	Torquay	30	45	38	or	p.o	0·0
	Paignton	32	41	30	or	o	0·0
	Penzance	10	40	39	or	or.c	0·0
	Newquay	*	47	37	or	or	0·0
	Ilfracombe	10	42	32	rs.o	o.c	0·0
	Weston-super-Mare ...	4	40	32	sr.c	c.bc	?

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max. (24 hours ended 9 a.m. To-day)	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	70	81	0·0	40	32	27	–	o	o	o.cx.
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	64	77	0·0	42	34	29	–	o	o.bc	bc
Camden Sq. (Brit. Rainfall)	65	77	0·0	42	31	27	–	om.o	o	*
Hampstead (Reservoir) ...	*	76	0·0	39	29	21	–	bx	bc	bx.q
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	63	71	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
228 Joules	6·1 Milliwatts.	12 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	44	36	31	e.c	c	b	*
Darwen to 9 p.m.								
Manchester ,,	·	42	33	*	o.c.fx	f.c.oc	c.os.bx	3.9
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	25	45	37	37	or	r	o	
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	43	37	31	o	o	o	*

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

22nd & 23rd Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.58 / 6.56	12.7 / 12.7	5.16 / 5.18
Greenwich	7.3 / 7.1	12.14 / 12.14	5.25 / 5.27
Wick	7.30 / 7.27	12.26 / 12.26	5.23 / 5.25
Valencia	7.45 / 7.42	12.55 / 12.55	6.5 / 6.7

NOTES ON YESTERDAY'S WEATHER.

Temperature was rather low generally, very few maxima as high as 45°. A good deal of rain fell in the south-west of England, local hail or snow showers in the north and east. Sunshine was very irregular, none in many places, over 7 hours locally.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 54.

Wednesday, 23rd February.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·7	38	N	3	bc	1035·8	0	37	+2	NNE	3	-	b	2	2	40	33	bc	bc.sp.	bc	*
	Deerness (Orkney)	1031·8	38	NNE	5	o	1034·5	*	36	0	NNE	3	NE	c	2	—	40	35	bc	bc.c.o	o.c	4·7
	Stornoway ...	1031·2	46	NE	3	o	1035·7	0	34	-1	NNE	1	—	c	1	—	41	33	c.bc	bc.o	o.c	2·7
	Castlebay (Barra Isd.)	1033·9	39	N	3	op	1035·0	0	39	0	NE	3	-	c	3	1	44	36	bc.o.c	ch.op.	sp.bc.	2·7
	Glasgow ...	1031·1	35	N	1	c	1032·6	+1	35	+2	NNE	2	NE	bc	*	Trace	39	31	bc.c.b	bc.b.bc	bc.c.bc	5·9
	Eskdalemuir ...	1028·6	34	NNE	6	os	1030·7	0	33	+2	NNE	4	-	o	*	1	36	30	bcx.c	c.os	os.bc	6·4
	Malin Head ...	1031·0	39	NE	6	cq	1032·5	0	38	-2	E	3	—	bc	3	—	43	37	bcqp	cq	bc	6·6
	Blacksod Point	1032·2	40	NE	4	bcp													bcp	bcp		*
	Valencia ...	1028·7	43	NNE	3	bc	1029·8	0	36	-2	NE	3	-	b	3	—	46	34	b.bc	bc	bc.bx	6·0
	Roche's Point	1028·3	42	N	2	c	1029·1	*	34	-2	N	2	-	b	2	0·3	46	32	b.bc.cq	bc.c	bc.bc	*
	Birr Castle ...	1029·2	40	NW	1	c	1030·7	*	25	-8	NE	1	-	b	*	-	43	25	c	c	bc.b.	1·5
	Donaghadee ...	1029·9	39	NE	4	bcm	1031·2	0	38	-1	NE	4	NE	bcm	4	—	41	37	bc	bcm	bc.bcm	*
	Liverpool (Bidston)	1026·2	36	N	3	b	1027·8	0	32	-14	NNE	2	-	b	2	-	41	32	bcm	bcm	bx	5·2
	Holyhead ...	1026·5	40	NE	6	b	1027·6	0	38	-2	ENE	5	—	b	5	—	44	37	bc.c	c.bc.b.	b.o.bc.b	7·8
	Pembroke (St. Ann's)	1025·3	38	NNE	4	b	1025·6	-1	35	-2	NNE	3	NE	bx	3	0·2	43	35	gps.bc	bcq	bqp	5·7
	Scilly (St. Mary's)	1022·5	41	NE	5	cq	1021·1	+1	40	-1	NE	5	NE	cq	6	0·1	44	37	bc.c	cqp.	cq.cqh	3·1
	Falmouth ...	1022·3	38	NNE	3	bq	1022·8	0	36	+2	NE	4	—	cx	*	—	44	35	b.bc	bc.b.o.c	b.bcx	7·2
	Jersey (St. Aubin)	1019·1	40	N	5	ogs	1016·9	*	36	-3	N	4	N	cps	3	3	42	34	bc.c.o	o.bc.og	bcqsp	4·0
	Portland Bill ...	1020·3	37	NNE	4	b	1019·5	-1	35	0	NNE	5	NE	bc	3	-	42	35	bc	bc.b	b.bc	*
	Dungeness ...	1016·1	35	N	4	oq	1015·6	-1	36	+14	NNE	4	N	c	3	6	39	31	bc.c	cps.c	cps.c	*
	Dover	1016·7	33	N	6	c	1017·0	0	35	+4	NNE	6	N	o	6	4	39	32	c.bc	cphrs	c.ohs	2·0
	Wick	1031·7	40	N	4	r	1034·8	+1	40	+3	NNE	4	—	o	4	0·3	40	36	c	c.omr	ph.om	*
	Nairn	1033·1	37	N	3	og	1034·4	*	36	+1	NNE	2	-	c	3	1	38	34	c.bc	bc.cq	cp	2·2
	Aberdeen ...	1030·1	38	NNW	3	c	1033·0	+2	37	+3	NNW	4	—	o	3	1	42	34	bcsp.	bcp.c	bc.op	6·1
	Leith	1029·0	39	NE	2	o	1031·2	+1	37	+1	NE	2	NE	c	4	1	40	36	c.bc	c.og.o	o.cp.c	*
	Tynemouth ...	1025·0	40	NE	6	bcmpq	1027·3	0	39	+4	ENE	5	NE	cmqp	7	2	40	33	bcmpqs	bcmqp	cmqp	*
	Spurn Head ...	1020·5	38	NNE	6	cqpsr	1023·2	0	36	+1	NE	7	NE	bcqps	7	5	43	32	cqpsh	cqpsh	bcqps	2·7
	Yarmouth ...	1017·4	37	NE	5	bc	1019·6	0	37	+3	ENE	8	—	bcq	5	2	40	33	bcphs	bcphs.	bcqr	2·5
	Clacton-on-Sea	1017·1	35	NNW	4	bc	1018·7	+1	36	+2	NNE	4	NE	o	3	2	37	32	c.ops	ops.bc	bc.ops	1·5
	Nottingham ...	1022·7	36	N	4	c	1024·2	*	34	0	NE	5	NE	c	*	2	39	33	ops.c	cps	cps.	4·1
	Benson (Oxon.) ...	1020·8	34	N	5	b	1021·7	+1	33	+1	N	4	-	s	*	1	39	31	b	b	b.s	*
	Sth Farnborough	1019·6	35	N	3	o	1020·0	0	35	+3	N	2	—	o	*	Trace	39	32	c.bc.o	s.bc.o	s.b.c.bcs	4·7
	London (Kew Obsy.)	1019·6	35	NNE	3	bm	1020·2	0	34	0	NNE	4	NE	bc	*	0·1	39	33	omx.o	o.cs.bcp.bm	bm.bc.o.cs	3·8
NORTHERN EUROPE.	Spitsbergen ...	994·6	23	SSE	10	s	993·6	+5	25	+20	NE	7	*	c	*	*	25	3				
	Vardö	1022·1	27	SW	3	b	1013·1	-5	19	+3	SW	7	-	m	4	*	27	16				
	Bodö	1028·7	23	E	4	bc	1018·3	-5	37	+18	SW	5	-	o	3	?	37	18				
	Christiansund	1030·3	32	SE	2	b	1035·3	+3	30	+2	E	2	-	b	4	-	32	28				
	Skudesnaes ..	1026·9	34	N	2	b	1035·1	+5	32	+4	NE	3	-	b	1	Trace	37	28				
	Færder (Christiania Fjord)	1026·9	28	ENE	4	c	1036·8	+5	28	+3	NE	4	-	o	1	-	32	25				
	The Scaw (Skagen)	1023·3	32	NE	3	b	1034·4	+5	27	-3	E	4	-	b	4	2	36	27				
	Blaavands Huk	1020·3	30	ENE	1	b	1025·3	+1	30	-4	E	4	-	o	5	-	34	25				
	Haparanda ...	1028·2	12	SE	2	o	1025·2	-5	5	-5	S	2	-	o	*	-	14	-4				
	Hernösand ...	1029·7	19	NNW	4	o	1033·9	-3	14	-5	S	2	-	b	*	5	19	12				
	Stockholm ...	1027·4	30	S	2	o	1037·0	+3	25	-3	NNE	2	-	o	*	-	34	25				
	Wisby	1026·7	28	S	2	b	1034·0	+3	23	-9	ENE	2	-	b	1	Trace	34	19				
	Karlstad	1025·9	25	—	0	o	1037·3	+4	25	+11	NW	2	-	o	*	1	23	12				
FRANCE, &c.	The Helder ...	1015·7	36	NE	4	c	1016·7	-2	34	-2	NNE	7	-	s	4	4	37	32				
	C. Gris Nez ...	1015·8	35	NNE	6	r	1015·0	0	37	-1	NE	7	*	c	5	4	39	32				
	La Hève	1014·3	36	N	5	c	1015·5	*	30	-4	ENE	3	*	s	2	3	37	28				
	Brest (St. Matthieu)	1021·7	41	NNE	4	o	1019·5	-2	37	-4	NE	3	*	c	2	—	52	36				
	Rochefort (Ile d'Aix)	1015·3	41	NE	5	c	1013·7	0	34	-12	NNE	3	*	c	?	-	46	34				
	Biarritz	1011·7	52	N	2	c	1011·4	-1	36	-10	E	2	*	o	2	1	59	36				
	Paris	1014·3	32	NNE	2	o	1013·3	0	32	+2	N	2	—	b	*	1	41	28				
	Belfort	1013·7	27	W	4	o	1012·7	*	19	-9	W	2	*	c	*	11	33	18				
	Lyons	1013·7	31	NNE	1	s	1011·8	*	28		NNW	1	*	o	*	3	46	26				
	Nice												*									
	Perpignan ..	1009·3	56	—	0	c	1008·0	+4	41	+2	N	3	SW	s	*	-	59	39				
	Sanguinaire ..	*	55	S	4	o	*	*	50	0	S	3	*	o	4	-	57	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1011·0	57	NE	5	bc	1009·7	-1	45	-3	NE	6	-	c	3	—	57	45				
	Madrid (8 a.m.)	1011·8	52	E	1	b	1007·8	-3	37	-4	—	0	—	r	*	—	54	36				
	Lisbon (9 a.m.)																					
	Gibraltar	1011·2	57	E	3	m	1007·4	*	55	-1	E	4	*	b	1	-	60	54				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·1	0	59	+5	S	4	—	b	1	-	63	54				
	Azores (Horta, 8 a.m.)	1017·5	*	NNE	5	bc	1014·9	0	50	-4	N	2	*	b	2	-	57	48				
	Madeira (Funchal)																					
YESTERDAY'S REPORTS				21st ... 8 P.M. G.M.T.			22nd February, 7 A.M. G.M.T.															
ITALY.	Venice	1022·4	39	—	0	b	1020·3	-2	32	-7	NE	2	*	o	3	—	*	*				
	Turin	.	.	.	.	.	1020·3	0	34	-2	—	0	*	o	*	—	*	*				
	Florence	1020·2	43	NE	4	o	1019·3	+1	34	-11	—	0	*	bc	*	—	*	*				
	Pesaro	1022·4	36	S	3	o	1020·9	-2	28	-13	S	2	*	c	3	—	*	*				
	Leghorn	.	.	.	.	.	1019·7	-1	37	-9	NE	2	*	o	3	—	*	*				
	Rome	1017·4	48	—	0	b	1019·4	0	36	-7	N	2	*	c	*	—	*	*				
	Brindisi	1018·7	45	NW	4	b	1019·4	0	43	-7	N	4	*	b	2	—	*	*				
	Cagliari	1016·3	52	NW	4	b	1013·5	0	50	-2	NW	4	*	b	2	—	*	*				
	Palermo	1015·9	52	N	3	b	1012·2	0	52	+2	WSW	1	*	b	2	—	*	*				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.30 a.m.

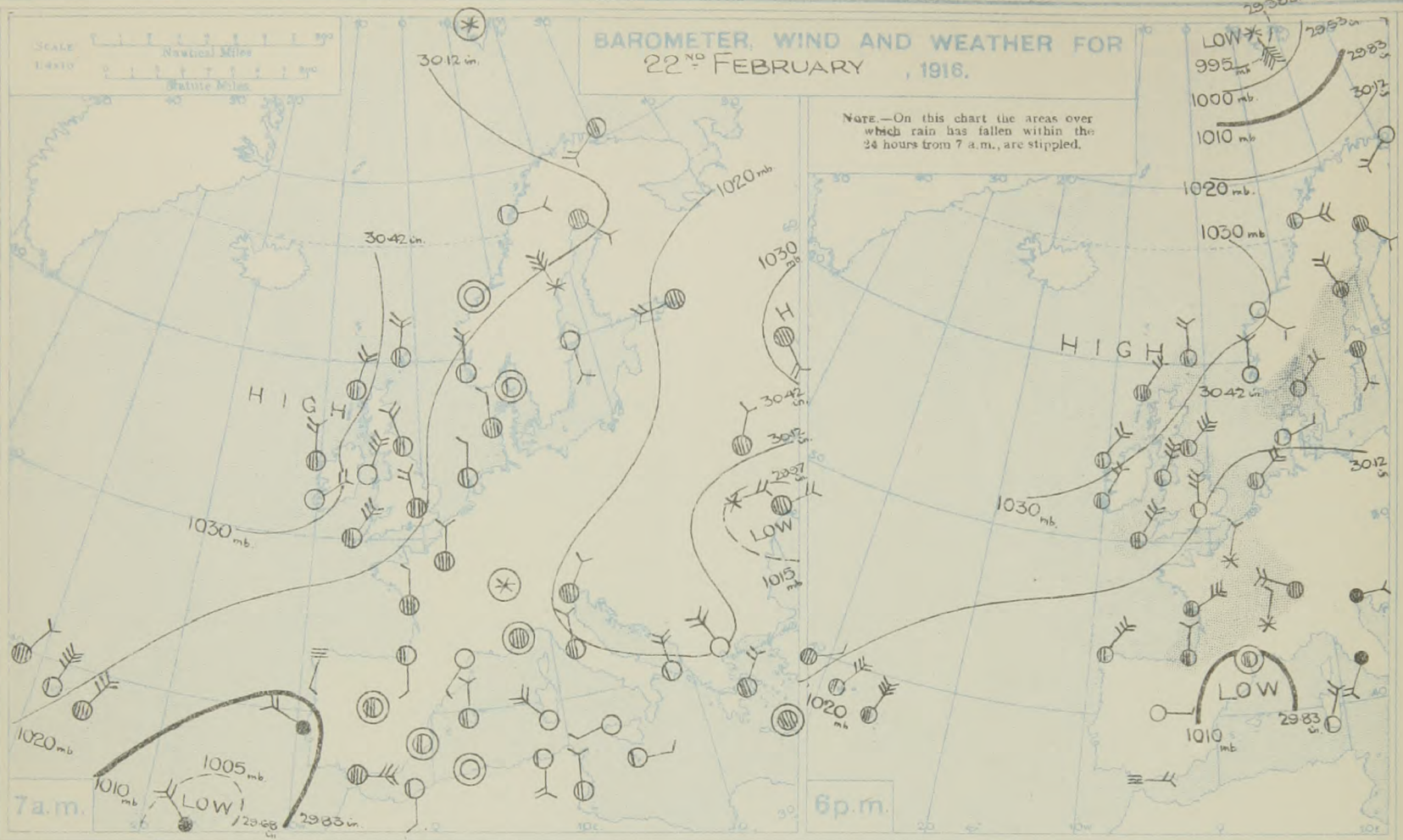
800 metres NE 38 miles per hour
500 " NE by N 40 " " "

GALES
Duration and Extreme Force in British Islands.

Spurn Head.
23rd 6 a.m. NE 8 in Squalls.

Yarmouth.
23rd 2 a.m.-7 a.m. NE 8.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b, 1 — Northerly to Easterly breezes, light to moderate; local hail or snow showers, but generally fair to fine; cold.

2 a, b, 3, 4 a, b, 5 — Squally Northerly and North Easterly winds, strong or high, moderating and veering Easterly; local hail or snow showers, but generally fair to fine, cold.

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

Western Channel and Bay 11 — Moderate to fresh North-Easterly breeze; sea moderate to rather rough; fair generally, some cold showers.

FURTHER OUTLOOK.

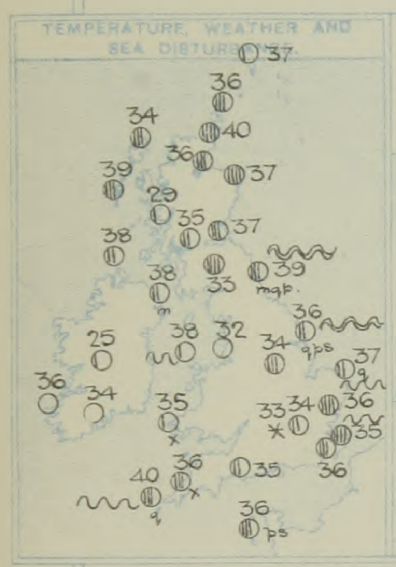
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 23RD FEBRUARY, 1916.

GENERAL INFERENCE.

The North-Easterly wind over our eastern districts will moderate, but no other change of importance is indicated.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

Barometer very slight changes

Barometer falling

Barometer rising

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for FEBRUARY.

Issue No. 19816

DAILY WEATHER REPORT.

Wednesday, 23rd February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	21st at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	22nd at 7 A.M. Local Time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	-	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1017.1	9	SE	3	b	1019.4	+4	5	+9	SE	2	*	bc	*	-	*	*
Helsingfors ...	1018.3	3	-	0	ʒ	1019.6	+2	19	+16	ESE	2	*	S	0	?	*	*
Hangö	1017.2	27	WSW	2	0	1017.6	+2	30	+27	SSW	4	*	0	0	1	*	*
Riga	-	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1017.2	12	NW	1	S	1021.6	+6	16	-2	W	3	-	0	*	3	27	12
Moscow	10239	27	SSE	4	0	1031.0	+3	21	+3	S	3	*	0	*	1	*	21
Kiev	10248	23	E	2	0	1023.0	0	23	.	NNE	3	*	0	*	-	*	9
Kharkov	1027.3	19	E	1	ʒ	10255	-1	25	+2	ENE	3	*	S	*	1	*	*
Kishinev	1015.7	34	SE	3	r	1014.7	0	32	0	E	3	*	S	*	25	*	30
Elisabetgrad ...	1021.3	32	ENE	3	S	1019.4	0	30	+5	E	3	*	S	*	1	*	28
Nicolaiev	1018.9	36	ESE	5	c	1016.3	*	32	0	ENE	3	*	0	0	-	*	27
Odessa	1017.1	39	SE	3	0	1014.4	-1	34	-2	ESE	4	*	0	0	-	*	34

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

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	-	41	32	ʒ	ʒ	6.0
	Banff	-	42	34	ʒc	ʒcu	3.0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	36	31	ʒcqs	cps	3.5
	Skegness	4	40	32	osu	osʒc.ʒ	2.6
Eng. N.W.	Morecambe	-	39	34	ʒc	ʒc	6.4
	Blackpool						
	Southport	-	41	36	ʒc.ʒ	ʒ	7.3
Midlands.	Buxton	.	36	29	bc	bc	3.9
	Leamington Spa	1	39	31	ʒcpo	ʒcps	3.6
	Malvern	-	39	32	ʒc	o.ʒc	2.5
	Ross-on-Wye	-	41	30	ʒ.ʒc	c.ʒc	4.5
Wales.	Rhyl	-	40	33	ʒ	ʒ	5.3
	Colwyn Bay	-	42	37	ʒ	ʒc	6.6
	Llandudno	-	41	38	ʒ	ʒ	7.1
	Aberystwyth	-	42	32	s.c.ʒ	ʒe.c	6.0
	Tenby	-	46	30	ʒ	ʒc.os	8.3
England, E.	Lowestoft	2	41	33	ops.c.c	c.ops	2.8
	Felixstowe	1	38	30	o.ʒcps	ʒcps	3.4
	Walton-on-Naze	0.3	39	32	bcqs.bc	bcqs.bc	2.8
	Southend-on-Sea	-	38	31	o.c.ʒc	ʒc.c.o	3.0
England, S.E.	Margate	1	38	36	c.hq	ʒc hq	1.5
	Ramsgate	-	38	34	c.s	cs	3.4
	Hastings	.	39	32	o.ʒc.ʒ	ʒ.ʒc	4.0
	Eastbourne	-	44	32	o.ʒc	ʒc.ʒʒc	5.0
	Seaford	.	46	32	c	bc	4.8
	Brighton	.	41	32	c	c.oc	5.9
	Worthing	-	41	32	ʒ.ʒc	ʒc.s	7.1
	Littlehampton	-	42	31	ʒc	ʒc	5.1
	Bognor	.	41	32	bc	bcs	5.9
	Southsea	-	42	33	ʒ	ʒ	6.6
	Bournemouth	-	43	30	ʒ	ʒ	7.3
England, S.W.	Weymouth	0.1	43	32	ʒ	c.ʒs.ʒ	7.7
	Torquay	-	44	34	ʒ	ʒ	7.3
	Paignton	-	43	25	ʒ	bc	6.4
	Penzance	1	46	36	ʒc	ʒcph	4.6
	Newquay	*	47	34	ʒʒc	ʒcph	5.0
	Ilfracombe	-	38	33	ʒ	ʒ.ʒc	7.2
	Weston-super-Mare ...	-	43	32	ʒ	ʒ.ʒc	6.8

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	Temperature Min. on Grass °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.) ...	74	92	1.4	39	32	27	1	c	bcpb	bcx
City (Bunhill Row)	*	*	3.9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	94	3.2	41	34	31	-	bcuS	bc	s.bc.cS
Camden Sq. (Brit. Rainfall)	64	95	5.7	41	32	28	0.3	bc.c	c.bc.c	*
Hampstead (Reservoir) ...	*	88	6.6	37	30	23	0.3	bx	o.s	os
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	3.8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	66	90	43							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
556 Joules	149 Milliwatts.	41 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	Temperature Night Min. on Grass °F.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	.	43	34	31	c.b	bc	c.b	*
Darwen to 9 p.m.	.	37	30	23	bc	bc	bc.ou	5.6
Manchester ,,	Trace	40	33	*	bc.c.z	c.bc	bcb.bc	3.4
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	.	43	34	27	obc bx	bx.b	b	6.8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	40	33	24	bc	cq.sp	opo.bc	*

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

Feb. 23 & 24, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	6.56 / 7.53	12.7 / 12.6	5.18 / 8.19
Greenwich	7.1 / 7.58	12.14 / 12.13	5.27 / 5.28
Wick	7.27 / 7.24	12.26 / 12.25	3.25 / 5.27
Valencia	7.43 / 7.44	12.55 / 12.54	4.7 / 4.8

NOTES ON YESTERDAY'S WEATHER.

A cold day, many maximum temperatures below 40°. Hail and snow showers general, but light. Large sunshine records were the rule, 8·3 hours at Tenby.

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

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

Printed at the Meteorological Office, South Kensington, London, S.W. By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 55

Thursday 24th February

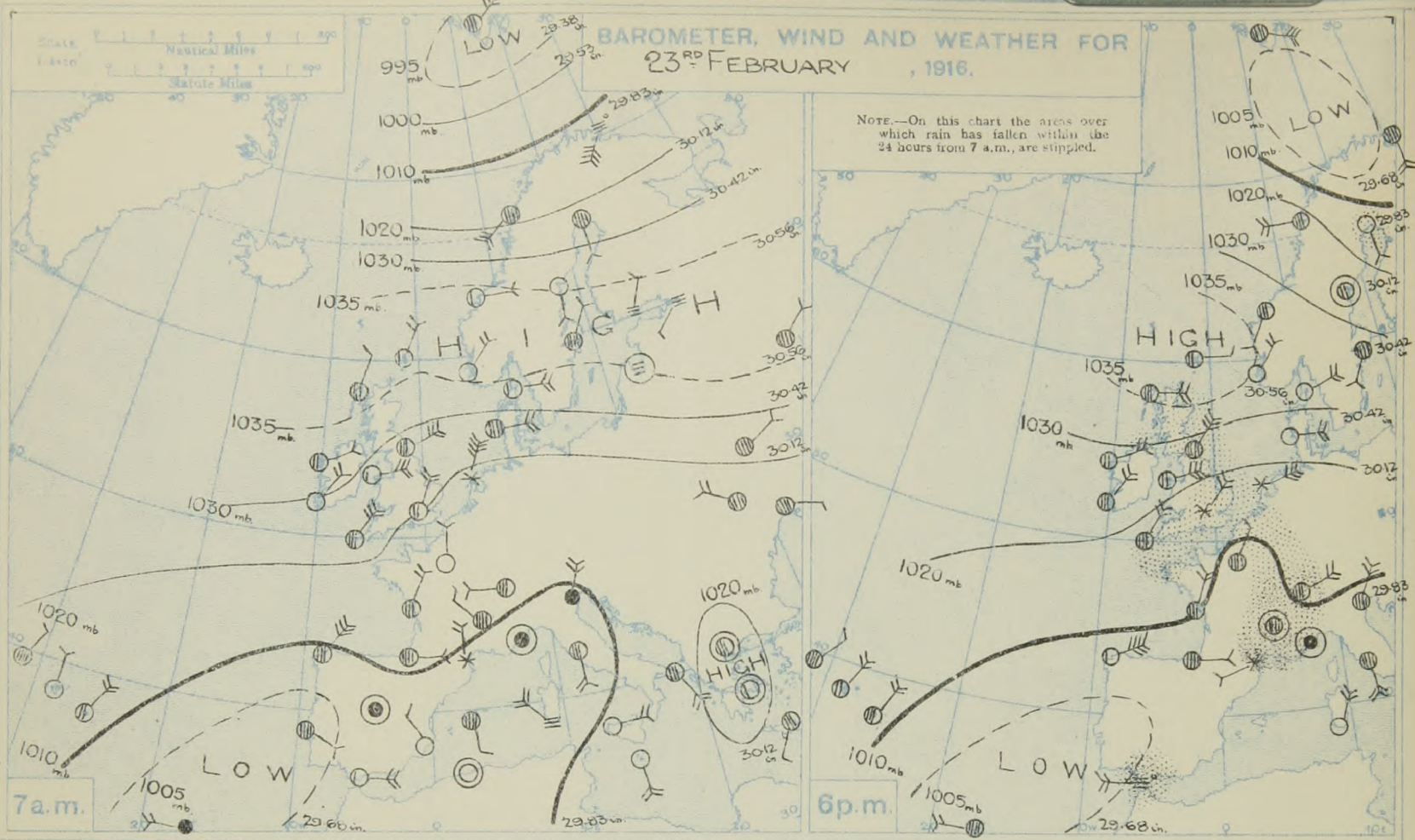
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1036·7	37	E	1	bc	1031·6	-3	36	-1	NNE	3	N	bc	3	-	42	32	bc	bc	bc	*
	Deerness (Orkney)	1035·9	38	E	1	bc	1031·1	*	36	0	NE	4	N	cx	3	-	42	33	c	cp.bc	bc.c	4·9
	Stornoway ...	1035·7	40	E	4	c	1031·9	-2	33	-1	E	2	-	b.	2	-	44	32	bc	bc.c	b	6·2
	Castlebay (Barra Isd.)	1033·8	40	NNE	3	b	1030·3	-2	36	-3	NNW	2	-	b	2	-	43	34	c.b	b.	b	7·6
	Glasgow ...	1032·4	33	NE	2	bc	1027·6	-3	32	-3	NE	4	-	c	*	0·3	39	31	c.bc.c	csp.bc.	c.bc.c	4·1
	Eskdalemuir ...	1029·6	32	NE	6	os	1024·5	-1	32	-1	NNE	6	-	o	*	1	37	31	o.osq.c	bc.c.os.	csp.o.c	4·2
	Malin Head ...	1030·9	37	SE	5	bcmpq	1027·9	-2	35	-3	E	6	-	bcq	5	0·4	43	33	bc	bc	bcq	7·2
	Blacksod Point	1029·5	40	ENE	3	bc	1026·2	-3	35	+2	ENE	4	E	bc	3	-	40	31	bc	bc	bc	*
	Valencia ...	1026·1	41	NNE	4	c	1023·0	0	35	-1	NE	3	NE	c.	3	-	43	34	b.bc	c.b	bc.b.bc	7·9
	Roche's Point	1025·4	38	NE	3	b	1020·3	*	35	+1	NNE	3	E	c	2	0·1	44	34	b.bc	bc	csp.b.	*
	Birr Castle ...	1027·0	34	NE	2	c	1022·7	*	33	+8	N	3	-	c	*	1	42	25	c	cph	ephs	4·2
	Donaghadee ...	1029·0	38	ENE	6	bcqg	1025·2	-2	36	-2	E	5	E	cm	5	-	42	36	bc.cgq	bcgq	bcm.cm	*
	Liverpool (Bidston)	1023·3	35	NE	5	o	1019·0	-1	34	+2	NE	4	E	bc	4	-	39	32	b	bc.o	o.bc	6·1
	Holyhead ...	1023·9	39	ENE	7	bcq	1019·8	-2	38	0	ENE	8	E	cq	7	-	43	38	b.bc.c	chp.bc	cp.c	7·3
	Pembroke (St. Ann's)	1020·9	38	NNE	4	bcq	1014·8	0	37	+2	NNE	5	E	cq	4	-	42	34	b.bcq	bcq	cq	6·2
	Scilly (St. Mary's)	1017·4	38	NE	4	c	1010·7	-2	37	-3	NE	5	NE	cq	6	1	44	36	bcqps	cqps	omqp	4·2
	Falmouth ...	1017·2	37	NNE	2	bq	1010·7	-2	31	-5	NE	4	-	bc	*	-	42	31	bc	bc.b.bc	bx	6·5
	Jersey (St. Aubin)	1012·3	39	NE	5	oq	1006·7	*	32	-4	ENE	4	NE	bc	3	3	42	30	oqps.b	sp.c.o	ogs.bc	3·2
	Portland Bill ...	1013·9	35	N	5	c	1009·5	-4	32	-3	NE	5	NE	c	4	0·2	40	30	bcq	bc.csp	csp	*
	Dungeness ...	1010·0	31	ENE	5	c	?	-1	31	-6	E	2	-	o	2	3	36	29	cps.c	cps.c	os.c.o.	*
	Dover	1012·2	30	ENE	4	s	1009·8	-1	29	-6	NE	1	NE	o	3	3	35	28	c.ogs	qs	opqs	0·2
	Wick	1026·1	39	SE	2	c	1030·8	-4	30	-10	WNW	1	NE	c	3	0·2	42	28	o	mp.c	cm	*
	Nairn	1035·5	32	-	0	bcm	1031·4	*	30	-6	-	0	-	c	1	1	39	26	ph.cm	bc	bc	3·8
	Aberdeen ...	1035·0	36	ENE	4	o	1029·7	-3	35	-2	N	3	-	c	4	1	41	33	cthp	c.o.	o.c	2·1
	Leith	1031·8	38	ENE	4	c	1027·5	-3	36	-1	NE	4	NE	c	5	1	40	35	c.ors	c.og.c	c.oq.o.c	*
	Tynemouth ...	1028·5	37	NE	6	omqp	1023·5	-4	38	-1	NE	6	NE	cmq	7	1	39	35	cmqp	omgp.	cmq	*
	Spurn Head ...	1019·5	36	E	8	o	1016·5	-2	36	0	E	8	-	cq	7	2	41	31	bcqps	qs.o.	cqps	1·7
	Yarmouth ...	1016·0	34	E	8	o	1012·7	-3	34	-3	E	8	-	omqps	7	10	37	32	omqs	omqs	omqs	0·0
	Clacton-on-Sea																					
	Nottingham ...	1019·5	34	NE	5	s	1015·9	*	35	+1	NE	5	NE	o	*	6	37	32	cps	cs	s	1·8
	Benson (Oxon.) ...	1015·1	32	N	5	o	1011·2	-2	31	-2	NNE	4	-	s	*	5	35	30	bf.c	s.o	s	*
	Sth Farnborough	1013·4	31	NE	4	s	1009·7	-3	30	-5	NE	2	-	os	*	4	36	29	bcs.c	os	os	2·2
	London (Kew Obsy.)	1013·8	32	NE	4	osqm	1010·1	-3	32	-2	NE	3	-	os	*	4	37	30	bc.c.os.oq.o	osq.s.o.osqm	osq.os	0·6
NORTHERN EUROPE.	Spitsbergen ...	1005·1	7	ESE	5	o	988·2	-5	16	-9	W	1	*	s	*	*	25	3				
	Vardö	1005·7	23	S	4	o	1014·7	+5	34	+15	NW	2	-	o	2	*	32	12				
	Bodö	1023·4	41	W	4	c	1025·0	0	37	0	SW	2	-	o	2	-	41	34				
	Christiansund	1024·9	36	SW	2	c	1029·6	-1	37	+7	-	0	-	c	3	-	37	30				
	Skudesnaes ..	1025·0	32	NNE	3	b	1027·3	-3	25	-7	-	0	-	b	1	-	36	23				
	Færder (X'tania Fjord)	1024·6	30	-	0	b	1027·4	-3	25	-3	N	2	-	c	1	-	30	25				
	The Scaw (Skagen)	1032·8	28	ENE	4	b	1026·7	-3	28	+1	NE	2	-	b	2	-	30	25				
	Blaavands Huk	1027·4	28	E	4	b	1022·4	-3	25	-5	E	4	-	o	4	-	34	21				
	Haparanda ...	1017·1	19	S	2	b	1021·7	+2	25	+20	NNW	2	-	bc	*	Trace	27	5				
	Hernösand ...	1027·3	30	-	0	bc	1025·2	+2	30	+16	-	0	-	c	*	-	32	12				
	Stockholm ...	1032·6	21	SW	2	o	1028·5	-1	18	-7	-	0	-	o	*	-	27	18				
	Wisby	1032·3	25	NE	2	b	1026·0	-1	19	-4	SE	2	E	b	*	-	30	18				
	Karlstad	1033·7	19	-	0	b	1026·1	-3	21	-4	-	0	-	c	*	-	28	5				
FRANCE, &c.	The Helder ...	1017·1	36	ENE	7	s																
	C. Gris Nez ...	1010·7	29	E	5	o	1009·3	-4	23	-14	ESE	2	*	m	1	5	39	23				
	La Hève	1010·0	30	N	3	s	1006·6	*	21	-9	ENE	2	*	m	2	-	30	19				
	Brest (St. Mathieu)	1014·7	36	NE	4	c	1006·9	0	28	-9	NE	2	*	bc	1	1	45	27				
	Rochefort (Ile d'Aix)	1010·6	38	NNE	4	c	1005·3	-5	33	-1	SE	4	*	b	*	-	45	30				
	Biarritz	1007·8	38	E	2	o	1004·4	-1	32	-4	ESE	2	*	b	2	-	41	30				
	Paris	1009·1	30	ENE	1	o	1007·9	0	27	-5	ENE	1	-	b	*	-	34	25				
	Belfort	1010·3	26	ENE	4	c	1008·3	*	23	+4	E	3	*	s	*	4	39	32				
	Lyons	1009·9	30	-	0	c	1008·6	*	27	-1	NNW	1	*	s	*	1	37	26				
	Nice	1005·6	40	-	0	r	1005·0	-1	44	+5	-	0	*	r	3	17	44	37				
	Perpignan ..	1008·6	34	W	2	s	?	0	32	-9	?	1	SW	c	*	5	50	30				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1008·2	45	ENE	7	b	1006·3	-1	36	-9	S	1	-	o	1	?	48	36				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1005·4	59	W	4	m	1002·4	*	57	+2	SW	6	*	o	5	6	65	54				
	Malta (8 a.m.) ...	*	*	*	*	*	1013·1	+1	61	+2	S	3	-	o	1	-	66	57				
	Azores (Horta, 8 a.m.)	1014·7	*	NNE	4	bc	1017·6	+1	52	+2	N	5	*	r	3	3	57	52				
	Madeira (Funchal)	1003·8	61	W	2	o	1008·0	0	55	+1	WNW	2	-	bc	2	-	61	55				
YESTERDAY'S REPORTS				....22nd..., 8 P.M. G.M.T.			23rd. February..., 7 A.M. G.M.T.															
ITALY.	Venice	1014·4	41	E	2	r	1008·6	-2	36	+4	NNE	4	*	r	4	7	*	*				
	Turin	1013·0	36	-	0	c	1009·5	-2	32	-2	-	0	*	s	*	2	*	*				
	Florence	1011·1	45	-	0	o	1006·6	0	43	+9	-	0	*	o	*	1	*	*				
	Pesaro	1013·3	43	ENE	2	r	1008·0	-3	29	+1	-	0	*	o	3	3	*	*				
	Leghorn	.	.	.	.	.	1008·0	0	43	+6	-	0	*	c	1	1	*	*				
	Rome	1012·9	43	SW	3	r	1008·4	-1	52	+16	S	3	*	c	*	5	*	*				
	Brindisi	1019·0	43	SE	3	b	1014·9	-2	48	+5	SSE	4	*	c	4	-	*	*				
	Cagliari	1010·9	54	NE	3	b	1005·6	-3	50	0	NW	4	*	f	3	-	*	*				
	Palermo	1014·6	54	ESE	2	b	1010·6	-1	63	+11	E	3	*	b	2	-	*	*				

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

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir
24th 3am NE 8
Gust NE 26 m.p.s.
Holyhead
23rd 9p.m. – 24th 7a.m. ENE 8
Ex. ENE 9 at 9p.m. 23rd.
Spurn Head
23rd 2p.m. – 24th 7a.m. E 8
Yarmouth
23rd 7a.m. – 24th 7am. ESE NE 8

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



FORECASTS FOR THE 24 HOURS NOON 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.

Cones Hoisted at 2.10 p.m.

0 a, b, 1	Wind between North and East, moderate or fresh at times locally; changeable, some snow; cold.
2 a, b, 3	Squally North-Easterly to Easterly wind, strong to gale, moderating later; changeable, some snow; cold.
4 a, b, 5, 6 a, b	Same as Nos. 0 and 1.
7 a, b	Same as Nos. 2 and 3.
8 a, b	Same as Nos. 0 and 1.
9 a	Same as Nos. 0 and 1.
9 b	Same as Nos. 2 and 3.
10 a, b	Same as Nos. 0 and 1.
Western Channel and Bay 11	Wind variable, mainly North-Easterly, moderate; sea moderate; fair generally, some cold showers.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 24TH FEBRUARY, 1916.

GENERAL INFERENCE.

The wintry type of conditions is likely to be maintained.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

Normal Temperature of the Sea

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

Scale of Tints for FEBRUARY.

SCALE 1 : 2 × 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Inches.
31
30
29

LOW
HIGH
LOW

990 mb
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
1030 mb

29·24 in
29·38 in
29·53 in
29·68 in
29·83 in
29·97 in
30·12 in
30·27 in
30·42 in

Barometer falling
Barometer rising
Barometer generally slowly falling

32°
20°
40°

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	22nd Feb. at 9 P.M. Local Time. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	23rd Feb. at 7 A.M. Local Time. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1030·6	3	SE	3	b	1029·2	-3	5	0	S	3	*	o	*	-	*	*
Helsingfors ...	1036·3	28	SSW	2	o	1036·6	+2	12	-7	NNE	1	*	f	o	Trace	*	*
Hangö	1031·1	30	-	o	c	1036·2	+3	25	-5	.	o	*	o	o	1	*	*
Riga	1032·2	21	-	o	b	1036·0	+2	12	.	-	o	*	f	o	Trace	*	*
Petrograd ...	1032·8	25	SSE	2	o	1037·6	+1	23	+7	SW	1	⊥	f	*	-	25	12
Moscow	1035·5	23	SE	3	m	1036·6	o	9	-12	E	3	*	o	*	-	*	9
Kiev	1019·9	27	ESE	3	o	1022·0	o	23	o	ENE	2	*	o	*	1	*	21
Kharkov .	1024·8	21	E	2	o	1023·3	o	18	-7	E	3	*	o	*	3	*	1
Kishinev	1014·9	23	NW	2	o	1017·6	+3	30	-2	NW	3	*	o	*	6	*	27
Elisabetgrad ...	1017·1	30	NNE	3	s	1017·3	o	27	-3	ENE	4	*	s	*	11	*	25
Nicolaiev	1012·7	34	ENE	2	o	1014·7	*	32	o	-	0	*	o	o	5	*	32
Odessa	1012·8	34	E	2	f	1015·1	+2	32	-2	W	3	*	o	o	10	*	32

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	-	44	28	bp	bp	4·5
	Banff	4	41	33	rs.bc	bc	4·7
	St. Andrews	1	40	35	*	*	4·6
Eng. N.E.	Harrogate	1	36	30	bc.csp	csp	1·4
	Skegness	4	38	32	os	os	1·2
Eng. N.W.	Morecambe	-	38	33	bc	bc	7·0
	Blackpool						
	Southport	-	41	31	b.bcs	bc.c.o.c	6·6
Midlands	Buxton						
	Leamington Spa	2	38	33	bc.os	bc.o.s	2·8
	Malvern	-	38	32	b.bc	bc.c	3·1
	Ross-on-Wye	-	39	30	bc.o	o.c	2·9
Wales.	Rhyl	-	45	36	b	b	6·5
	Colwyn Bay	-	40	37	b	bc.o	4·8
	Llandudno	-	41	37	b	b.bc	5·8
	Aberystwyth	-	41	34	o.cb	bc.o	7·0
	Tenby	-	42	34	bc	bc.c.o	5·3

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	2	41	32	o.c.om.os	o.c.oqs	0·1
	Felixstowe	3	35	32	bc.oms	oms q	0·4
	Walton-on-Naze						
	Southend-on-Sea	4	37	31	bc.c.os	s	1·7
England, S.E.	Margate	4	37	34	csq	om.osq	0·0
	Ramsgate	8	39	30	s	s	0·0
	Hastings	8	36	30	o.s.bc	o.s	1·8
	Eastbourne	3	39	31	sb.bc.	o bcs	3·3
	Seaford	2	34	30	s.b	s	3·9
	Brighton						
	Worthing	1	39	32	b.bc	c.s	3·8
	Littlehampton	-	38	31	b.bc	os.o	3·6
	Bognor						
	Southsea	1	39	33	bcs	bcs	4·3
	Bournemouth	-	39	32	b.	bc.o	3·3
England, S.W.	Weymouth	-	41	33	c.s.bc	b.bcs	4·4
	Torquay	-	43	35	o.c.bc	bcc.o	6·3
	Paignton	-	41	26	bc	bc	5·8
	Penzance	-	46	36	bc	bc.c	7·1
	Newquay	-	47	36	b	b	4·4
	Ilfracombe	-	41	35	bc	bc.c	4·5
	Weston-super-Mare ...	-	40	34	b.bc.b	s.b.bc	4·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 a.m. To-day)	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.) ...	94	90	2·1	37	30	31	13	c.o	osp.o	os.
City (Bunhill Row)	*	*	0·8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	89	0·5	38	31	32	6	3	5	5
Camden Sq. (Brit. Rainfall)	95	93	1·4	38	30	31	5	os.o	o.os	*
Hampstead (Reservoir) ...	*	83	1·9	33	27	25	3	0.	osp	os.x.
Richmond Park ...	*	*	0·2							
Kew. (See front page.)	*	*	0·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	99	0·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
353 Joules	94 Milliwatts.	38 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain Fall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	41	35	29	b	bc.b	bcsbc	4·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	37	32	27	bc.o	os o	osqg.	*

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

24th & 25th Feb. 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	6·33 / 6·31	12·6 / 12·6	5·19 / 5·21
Greenwich	6·38 / 6·36	12·13 / 12·13	5·28 / 5·30
Wick	7·24 / 7·21	12·25 / 12·26	5·27 / 5·29
Valencia	7·41 / 7·39	12·54 / 12·54	6·8 / 6·10

NOTES ON YESTERDAY'S WEATHER.

Cold maintained in all districts, many afternoon temperatures below 40°. Snow showers were general. A few East coast stations had no sunshine, but many had good records, up to 8 hours at Valencia. An Easterly gale was felt locally.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 56

Friday
25th February.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer Millibars at M.S.L.	Change in 3 hours.‡	Temp. Dry Bulb °F.	Change in 24 hours °F.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1025·6	42	NE	4	bc	1022·3	-1	40	+4	E	3	SE	cp	3	1	42	35	bc	bcp	bcp	*
	Deerness (Orkney)	1024·4	40	NNE	4	op	1021·3	*	36	0	E	3	SE	bc	2	2	41	36	c.o	op	op.c.bc	1·2
	Stornoway ...	1025·6	40	ENE	3	op	1020·3	-1	40	+7	NE	3	–	o	3	1	41	32	b.o	o.c.op	b.bc.op	3·2
	Castlebay (Barra Isd.)	1023·7	39	NE	4	b	1018·5	-1	40	+4	NE	4	NE	bc	4	–	40	34	b	b	bc	7·7
	Glasgow ...	1020·3	36	NE	3	c	1016·6	-1	35	+3	NE	3	–	o	*	1	39	32	o	c.bc.cp	clrsp	2·1
	Eskdalemuir ...	1017·6	33	NE	6	bc	1014·9	0	32	0	NE	5	–	o	*	0·1	36	31	o.bc	csp	c.o.os.o	4·6
	Malin Head ...	1021·2	36	NNE	2	b	1015·5	0	39	+4	E	6	E	bcq	5	–	40	34	b	b	bcq	9·3
	Blacksod Point	1019·5	38	NNE	4	bc	1014·3	-2	39	+4	NE	4	NE	cm	3	–	40	33	bc	bc	bc.cm	*
	Valencia ...	1016·1	38	NNE	5	c	1011·1	-3	37	+2	NE	4	NE	c	3	–	40	34	c.b	b.o.c	bc.c	6·2
	Roche's Point	1014·6	39	N	4	c	1009·8	*	33	-2	NNE	2	NE	c	2	1	41	33	c	c	csp	*
	Birr Castle ...	1016·5	37	N	2	c	1011·3	*	33	0	N	2	–	c	*	–	38	31	c	c	c	2·3
	Donaghadee ...	1018·1	39	ENE	6	om	1013·6	0	38	+2	ENE	5	NE	cmq	5	–	40	36	bcmq	cm	bcmq	*
	Liverpool (Bidston)	1013·0	36	ENE	4	o	1010·2	0	32	-2	NE	1	–	os	2	3	40	31	b	om	os	4·3
	Holyhead ...	1012·3	39	ENE	7	cgq	1009·2	-2	35	-3	ENE	7	–	omd	7	3	41	34	c.o.c	cgq	c.o.oms	1·3
	Pembroke (St. Ann's)	1009·5	35	NE	5	oqps	1007·5	0	31	-6	E	3	E	c	2	1	39	31	cq	cq	o.c.bc	0·3
	Scilly (St. Mary's)	1004·0	35	NE	4	omlt	1003·9	0	36	-1	E	4	E	oq	4	4	41	34	cmqps	omqsl	cpsq.c	0·2
	Falmouth ...	1005·2	34	NE	4	os	1005·0	0	30	-1	NNE	1	–	o	*	4	36	28	s.os	s.os.c	s.o.bc.o	0·1
	Jersey (St. Aubin)	1004·5	36	E	4	o	1004·3	*	33	+1	E	4	–	b	3	–	36	31	bc	c.o	og.b	5·0
	Portland Bill ...	1006·5	33	NE	5	ops	1005·2	-2	32	0	ENE	5	–	cm	4	1	36	31	c.o	ops	cps	*
	Dungeness ...	1008·1	32	E	2	c	1006·2	-2	32	+1	E	3	E	c	2	–	35	31	o.c	c.bc	c.bc	*
	Dover	1009·4	31	ENE	?	c	1007·1	-1	27	-2	SE	1	NE	o	2	–	34	25	o.bc.b	b.bc	o	6·7
	Wick	1022·8	40	NNE	3	o	1020·8	0	39	+9	E	2	E	c	3	1	41	30	c.omp	omp	bcmd.c	*
	Nairn	1023·6	38	NE	1	ou	1020·1	*	33	+3	–	0	–	cg	1	3	38	29	dg.o	d.o	p.c	0·0
	Aberdeen ...	1022·0	39	NNE	3	cp	1019·4	0	38	+3	E	4	–	crp	4	2	43	35	c	cp	cph	1·4
	Leith	1020·0	39	NE	6	r	1016·1	-1	37	+1	NE	3	NE	c	6	3	39	36	c.op.o	pq.z.r	rq.o.c	*
	Tynemouth ...	1017·7	38	NE	6	cmq	1014·0	-3	37	-1	E	6	E	cq	6	–	39	36	cmq	omq	cmq	*
	Spurn Head ...	1011·3	36	E	6	oqh	1009·6	-1	35	-1	ESE	5	–	osq	6	7	38	33	oqr	oqrh	oqs	0·0
	Yarmouth ...	1010·2	31	ESE	6	oms	1008·5	0	34	0	ESE	4	–	o	4	6	34	30	oms	oms	oms.o	0·0
	Clacton-on-Sea	1009·9	34	ENE	2	o	1007·7	0	33		N	2	N	o	2	7	36	28	os	os	os.og	0·0
	Nottingham ...	1011·1	32	ENE	3	s	1009·4	*	31	-4	ENE	2	E	s	*	24	35	29	os	s	s	0·0
	Benson (Oxon.) ...	1009·1	31	NE	4	o	?1008·5	*	24	-7	–	0	–	o	*	4	33	16	s.o	o	b	*
	Sth Farnborough	1008·5	27	NE	1	m	1007·9	0	25	-5	NE	1	–	omx	*	3	35	22	s.c	bc.bm	bm.ox	3·7
	London (Kew Obsy.)	1009·0	32	NE	2	m	1008·3	0	27	-5	NE	2	–	om	*	3	35	26	os.og.os.cm.om	cm.om.bcm.of	of.om	1·7
NORTHERN EUROPE	Spitsbergen ...	996·6	10	WNW	4	o	998·9	+1	5	-11	W	2	*	o	*	*	14	5				
	Vardö	1014·4	32	SW	2	o	1015·5	0	30	-4	SW	5	–	bc	5	*	32	30				
	Bodö	1022·0	36	–	0	o	1020·8	-3	32	-5	E	4	–	c	2	–	27	32				
	Christiansund	1026·1	37	–	0	o	1023·4	0	34	-3	–	0	–	f	3	8	39	34				
	Skudesnaes ..	1022·7	32	NE	2	b	1021·6	-1	32	+7	NE	2	–	b	1	Trace	34	25				
	Færder (X'iania Fjord)	1023·0	34	N	2	o	1022·3	0	32	+7	NE	1	–	o	1	–	34	26				
	The Skaw (Skagen)	1021·9	30	ENE	3	c	1021·1	0	23	-5	ESE	3	–	c	3	–	41	21				
	Blaavands Huk	1017·3	28	E	4	o	1016·0	0	30	+5	E	3	–	o	3	–	32	23				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
FRANCE, &c.	The Helder ...	1011·0	28	ENE	4	s	1010·4	0	28	0	ENE	3	–	o	2	17	28	27				
	C. Gris Nez ...	1008·3	28	ESE	2	m	1006·0	-2	27	+4	E	4	*	o	2	–	30	25				
	La Hève	1005·0	27	ENE	2	m	1005·0	*	28	+7	ENE	3	*	m	2	–	28	27				
	Brest (St. Mathieu)	1002·5	32	NE	3	o	1001·9	+1	32	+4	E	4	*	o	3	8	43	30				
	Rochefort (Ile d'Aix)	1002·4	39	SE	3	b	1000·3	0	32	-1	E	4	*	bc	*	–	43	32				
	Biarritz	1001·5	37	E	1	c	1000·2	0	37	+5	SW	3	*	bc	1	–	43	32				
	Paris	1007·3	30	ESE	1	b	1002·0	-4	28	+1	N	3	–	s	*	?	39	27				
	Belfort	1007·9	26	ENE	3	o	1003·8	*	25	+2	E	7	*	o	*	8	30	24				
	Lyons	1007·0	28	NW	1	o	999·3	*	28	+1	NNW	1	*	f	*	1	32	28				
	Nice	1003·5	45	–	0	r	1000·8	-1	50	+6	SSW	6	*	r	5	47	50	45				
	Perpignan ...	1002·0	37	SW	1	o	997·7	+5	40	+8	NW	4	SW	o	*	5	43	36				
	Sanguinaire ...	*	54	S	3	m	*	*	51	.	E	3	*	c	3	–	59	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1003·0	43	WSW	2	o	1003·3	0	43	+7	W	5	–	o	4	3	48	37				
	Madrid (8 a.m.)	998·6	34	N	2	r	1011·0	+5	28	0	SSW	2	-	bc	*	3	34	25				
	Lisbon (9 a.m.)	1005·6	46	NNW	5	b	1011·5	+1	45	-7	WNW	2	–	b	5	1	50	43				
	Gibraltar	1006·4	54	W	6	c	1013·9	*	46	-11	W	4	*	b	2	13	61	45				
	Malta (8 a.m.) ...	*	*	*	*	*	1018·1	+8	63	+2	SW	5	–	r	2	Trace	66	61				
	Azores (Horta, 8 a.m.)	1019·3	*	NNE	5	bc	1023·4	+1	53	+1	NNE	3	*	b	2	–	59	52				
	Madeira (Funchal)	1011·9	63	N	3	r	1016·6	+2	54	-1	NE	2	–	bc	2	?	68	54				
YESTERDAY'S REPORTS		23rd, 8 P.M. G.M.T.					24th February, 7 A.M. G.M.T.															
ITALY.	Venice	1009·0	39	NE	4	o	1008·2	+1	41	+5	ENE	4	*	o	5	Trace	*	*				
	Turin	1009·4	33	–	0	s	1008·2	0	24	-8	–	0	*	s	*	5	*	*				
	Florence	1006·6	39	ENE	1	o	1005·3	0	45	+2	–	0	*	o	*	–	*	*				
	Pesaro	1007·4	46	–	0	c	1007·6	-2	41	+12	–	0	*	o	4	–	*	*				
	Leghorn	.	.	.	.	.	1006·6	+1	52	+9	E	4	*	o	4	Trace	*	*				
	Rome	1008·3	55	S	4	o	1006·9	0	52	0	NE	3	*	o	*	–	*	*				
	Brindisi	1012·9	60	SSE	4	c	1012·0	0	55	+7	SE	4	*	o	4	–	*	*				
	Cagliari	1005·5	55	NE	4	b	1004·2	0	52	+2	SE	4	*	c	3	–	*	*				
	Palermo	1008·9	68	S	3	bc	1009·2	0	68	+5	SW	4	*	o	4	–	*	*				

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

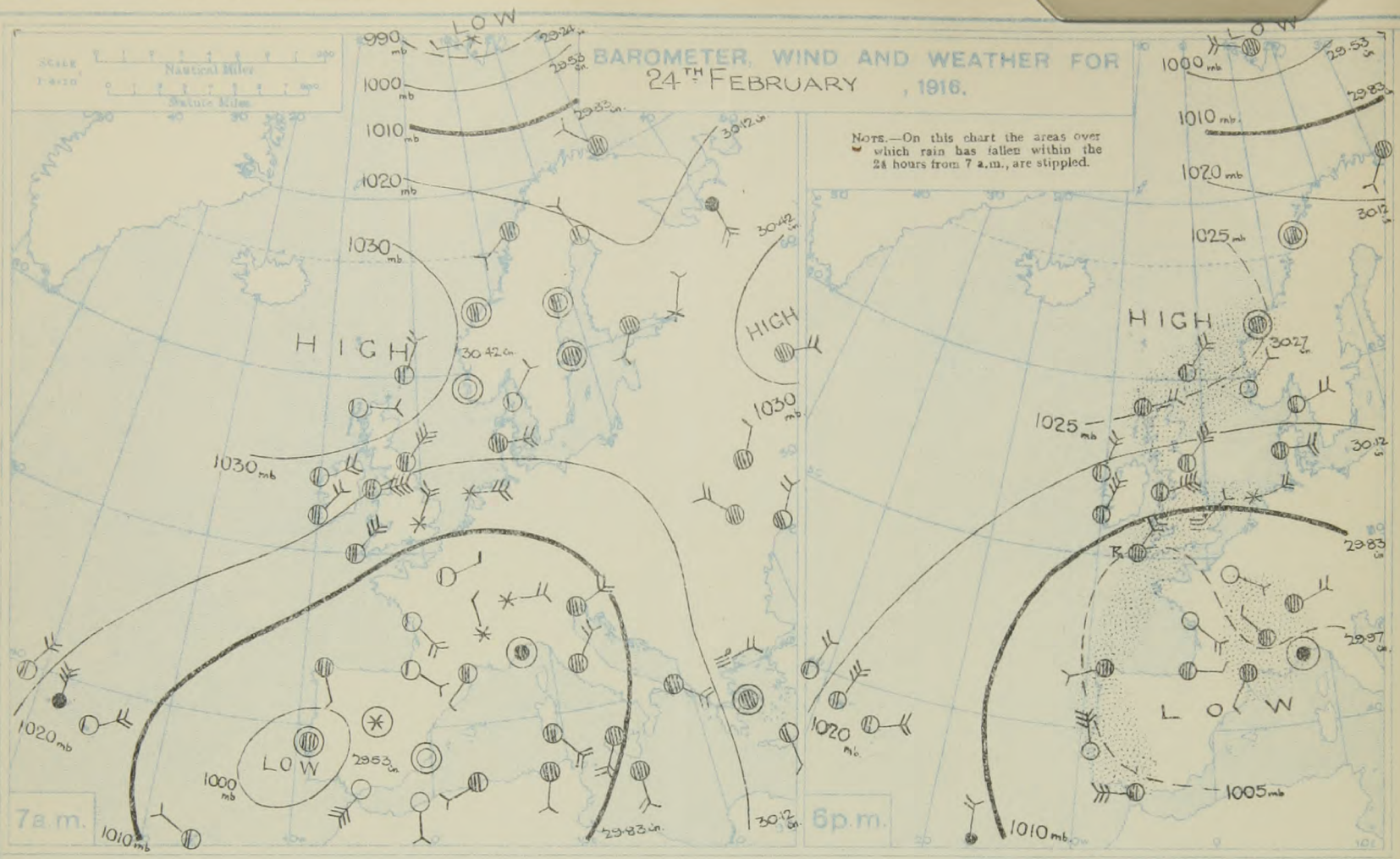
GALES
Duration and Extreme Force in British Islands.

Holyhead.
24th 7a.m – 9p.m ENE 8

Spurn Head
24th 7a.m – 2p.m ENE 8

Yarmouth.
24th 7a.m – 10a.m E 8.

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, 0 b, 1, 2 a, 2 b, 3, 4 a, 4 b, 5, 6 a, 6 b, 7 a, 7 b, 8 a, 8 b, 9 a, 9 b, 10 a, 10 b	Wind variable, about East, moderate to light; changeable, some snow at times; cold.
Western Channel and Bay 11	Moderate to fresh Easterly to Northerly breeze in north, backing Westerly in south; sea moderate to rather rough; changeable, some snow; cold.

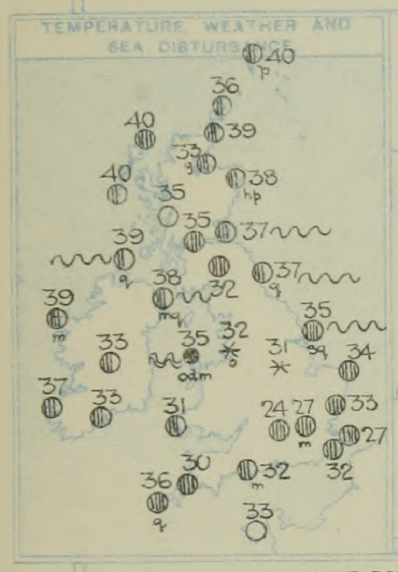
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 25TH FEBRUARY, 1916.

GENERAL INFERENCE.

A quieter wintry type of conditions is likely to prevail.



EXPLANATION.

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

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

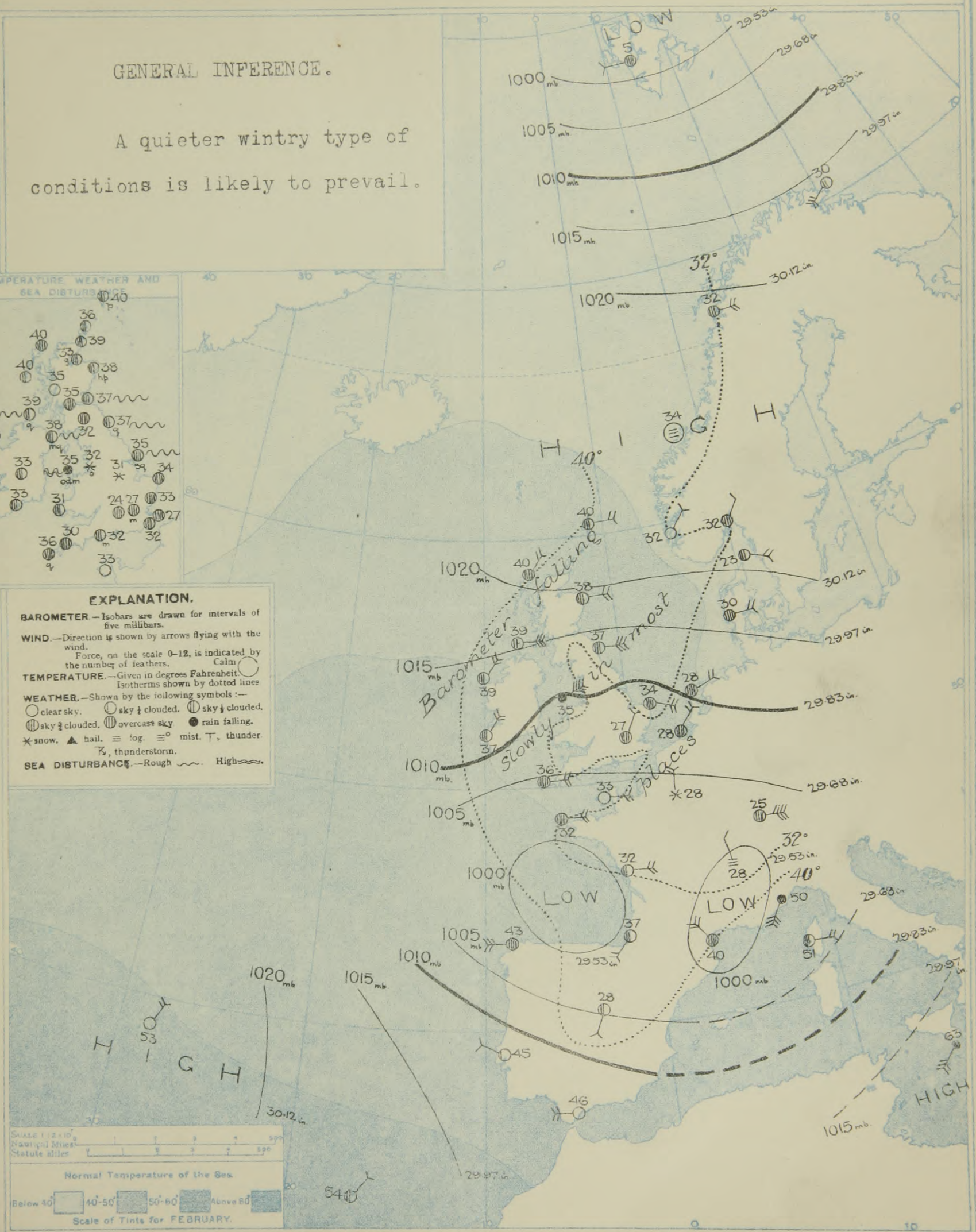
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1/2×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

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



Issue No. 19818.

DAILY WEATHER REPORT.

FRIDAY, 25TH FEBRUARY, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	...AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	...AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	1024.8	21	S	4	0	1024.0	0	32	.	S	4	*	r	.	1	*	19
Uleaborg	1019.6	23	SW	3	0	1020.4	+1	18	+13	SW	2	*	b	*	?	*	*
Helsingfors ...	1031.3	23	SW	2	0	1027.3	-1	21	+9	SSW	2	*	0	0	.	*	*
Hangö	1032.3	27	.	0	0	1026.4	-3	25	0	SSW	3	*	c	0	.	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1033.5	19	WNW	2	0	1029.5	-1	7	+16	NE	2	.	S	*	.	23	7
Moscow	1032.4	12	E	3	b	1031.8	0	9	0	ESE	3	*	0	*	.	*	7
Kiev	1024.8	19	NNE	2	bc	1024.7	0	18	-5	NNE	1	*	0	*	.	*	16
Kharkov	1023.5	21	E	2	0	1023.3	+1	23	+5	E	2	*	0	*	.	*	*
Kishinev	1023.4	27	NNW	4	0	1024.7	+1	23	-7	NW	3	*	0	*	11	*	21
Elisabetgrad ...	1021.0	27	NE	3	0	1022.7	+2	25	-2	N	3	*	8	*	1	*	23
Nicolaiev	1018.6	30	NE	3	0	1021.6	*	27	-5	NE	3	*	c	0	8	*	25
Odessa	1019.0	30	NE	3	0	1022.3	+2	28	-4	NE	3	*	0	1	2	*	27

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	42	27	b.bc	bc	7.8
	Banff	0.2	41	32	bc p.r	bc	1.0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	37	33	o.c	o	0.7
	Skegness	16	51	32	ou.s	s	0.0
Eng. N.W.	Morecambe	-	39	35	bc	b.bc	1.4
	Blackpool						
	Southport	-	42	34	b.bc.ad	bc.oc	7.0
Midlands	Buxton						
	Leamington Spa	14	33	30	s	s	0.0
	Malvern	7	34	29	c	o	0.0
	Ross-on-Wye	5	39	29	o	s	0.0
Wales.	Rhyl		41	35	bc	bc	3.6
	Colwyn Bay	.	49	36	bc	o	2.3
	Llandudno	.	41	36	b	bc.c	3.2
	Aberystwyth	.	39	34	o.c	c.bo	1.5
	Tenby	.	42	34	bc.c.o	c.og	0.3

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	19	36	30	os	os	0.0
	Felixstowe	8	35	31	os	ops	0.1
	Walton-on-Naze	12	34	30	os	os.bc.o	0.2
	Southend-on-Sea	18	36	30	os.c.bc	c od	1.8
England, S.E.	Margate	5	37	28	os.c	b	4.3
	Ramsgate	10	34	27	s.c	c	4.8
	Hastings	3	35	28	os.bc.b	b.bc	5.3
	Eastbourne	3	36	30	obc	bc.om	2.4
	Seaford	1	37	27	bc	bc	3.0
	Brighton	4	35	28	o.c	c.o	3.2
	Worthing	3	35	28	o.bc	c	1.8
	Littlehampton	.	36	30	o.b	bc.o	2.4
	Bognor	2	36	29	bc	bc os	1.6
	Southsea	1	37	29	os	bc	1.1
	Bournemouth	3	35	28	sc	o	0.6
England, S.W.	Weymouth	2	35	30	os.bc	bc.os	0.3
	Torquay	2	37	32	os	os	0.0
	Paignton						
	Penzance	1	40	32	c.bc	cp.s	1.3
	Newquay	*	47	30	c.ops	ops	0.1
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	76	83	3.3	36	25	27	2	os	bc	c.o
City (Bunhill Row)	*	*	1.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	100	84	1.3	36	27	31	5	so	os.om	m.o
Camden Sq. (Brit. Rainfall)	71	90	0.5	37	27	26	2	os	c.bc	*
Hampstead (Reservoir) ..	*	82	1.5	32	23	16	?	ox	ox	o
Richmond Park ...	*	*	2.8							
Kew. (See front page.)	*	*	1.7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	71	79	0.8							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max Rate.
348 Joules	9.2 Milliwatts.	38 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain Fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm §	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	36	31	‡ 27	os.pq.os	os.o	bcm.om	*

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

Feb. 25th & 26th 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.51 / 6.49	12.6 / 12.6	5.21 / 5.23
Greenwich	6.56 / 6.54	12.13 / 12.13	5.30 / 5.32
Wick	7.21 / 7.18	12.25 / 12.25	5.29 / 5.32
Valencia	7.39 / 7.37	12.54 / 12.54	6.10 / 6.12

NOTES ON YESTERDAY'S WEATHER.

A cold day, with maximum temperatures up to 40°. Snow was general, heavy in places, yielding 24 mm. of water at Nottingham. Several stations had no sunshine, elsewhere the records ranged up to 9·3 hours at Malin Head. An Easterly gale was felt locally.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 57.

Saturday, 26th February

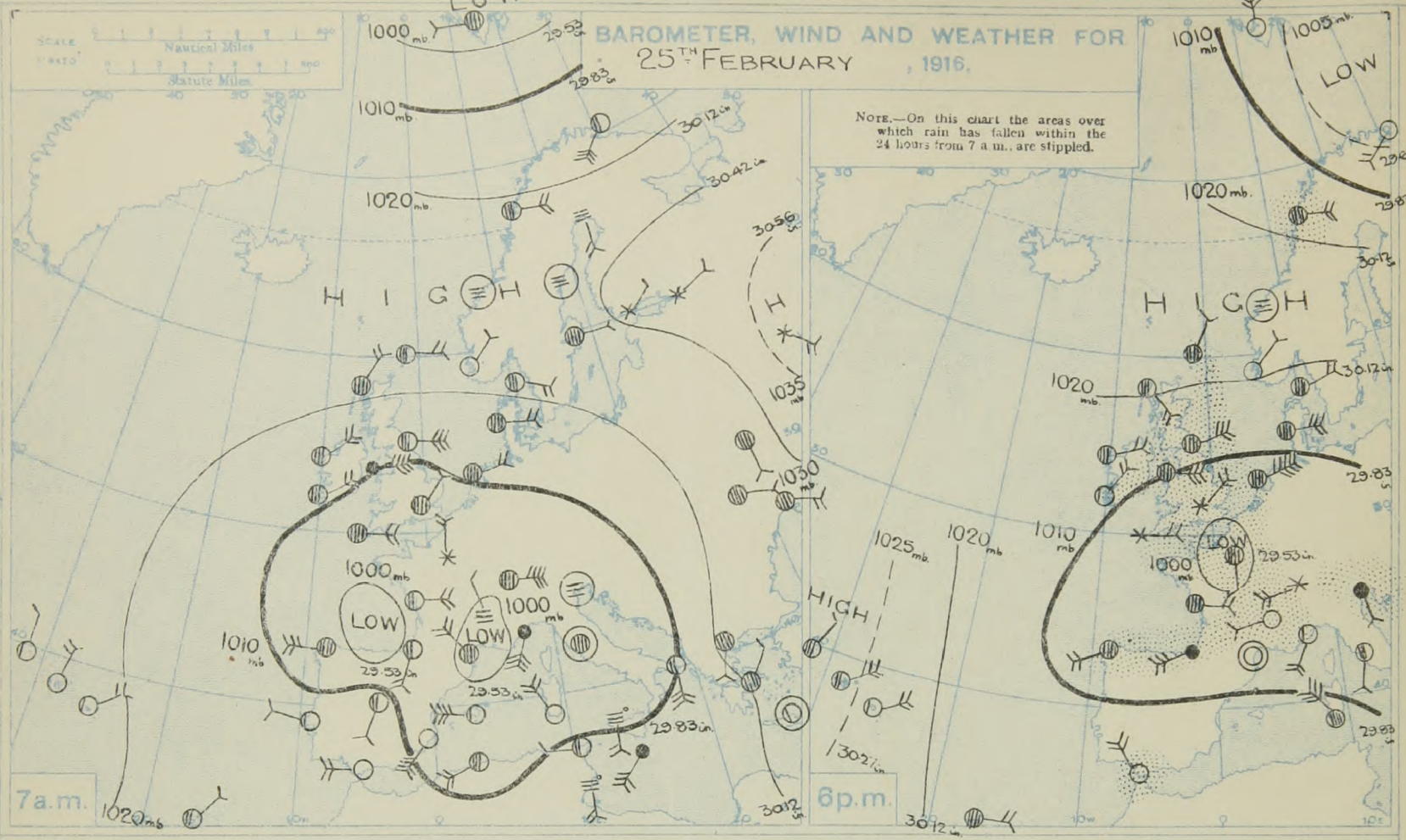
STATIONS.	Yesterday Evening: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	This Morning 7 a.m., G.M.T.: Barometer Millibars at M.S.L.	Change in 3 hours.‡	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Past 24 Hours: Rainfall Millimetres.	Temp. Max.	Temp. Min.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday.
BRITISH ISLANDS.		°F.						°F.	°F.							°F.	°F.				Hours.
Lerwick	1021·8	41	NNE	2	o	1020·1	-2	38	-2	—	0	—	o	0	2	42	36	o	o	fe.p	*
Deerness (Orkney)	1021·0	36	NE	1	bc	1018·9	*	36	0	NE	1	—	cx	1	—	44	36	bc.b	b.bc	bcx.c	8·5
Stornoway	1020·4	41	SE	3	c	1019·0	-1	31	-9	N	1	—	bz	1	—	43	31	o.b	bc.c	bz	5·9
Castlebay (Barra Isd.)	1018·9	41	ENE	2	bc	1017·2	-1	39	-1	NE	3	NE	c	3	—	43	38	bc.b	bc	bc	6·9
Glasgow	1017·1	35	ENE	2	ou	1015·0	-1	34	-1	ENE	3	—	o	*	1	37	33	o.c.osp	osp	ohp.c.o	0·2
Eskdalemuir	1016·1	32	NE	4	o	1012·9	-1	31	-1	NE	5	—	o	*	—	36	28	o.c.bc.c	c.osp.o	o.osp.o	4·8
Malin Head	1015·0	40	E	6	cgq	1014·1	-1	37	-2	E	6	E	cq	7	—	40	36	cq	cgq	cq	1·6
Blacksod Point	1014·7	38	ENE	3	cm	1013·8	0	37	-2	ENE	4	E	cm	3	—	40	34	cg	cm	cm	*
Valencia	1011·0	36	NNE	3	b	1010·7	0	34	-3	NE	3	NE	•	3	0·2	38	32	c.os	os.c.b	b.bc.c.o	0·7
Roche's Point	1011·8	36	NE	2	c	1009·8	*	34	+1	N	3	NE	c	2	2	39	33	osp	sp.bc.c	c.b.bc.c	*
Birr Castle	1012·6	34	NNE	1	s	1010·9	*	34	+1	N	1	—	c	*	1	38	32	c	chsp	ops.c	0·0
Donaghadee	1014·2	37	E	5	bcmq	1012·4	-1	37	-1	E	5	E	bcmq	4	—	40	36	bcz	bcmq	bcm.cm	
Liverpool (Bidston)	1010·2	34	NE	3	o	1007·8	-1	33	+1	NE	3	E	o	3	3	35	32	os	o	osp	0·0
Holyhead	1010·5	38	E	6	omg	1007·9	-1	37	+2	E	7	—	omp	6	2	38	34	op.sp.r	opr.om	o.op.om	0·0
Pembroke (St. Ann's)	1008·9	35	E	3	o	1003·7	-2	36	+5	NE	4	NE	cq	4	—	39	30	c.bc	bc	cq	5·2
Scilly (St. Mary's)	1005·4	38	E	2	cmps	1000·1	-2	38	+2	NNE	5	NE	omups	6	6	42	36	c.bc	bc.csp	bc.osp	5·1
Falmouth	1006·3	34	NE	2	oz	999·2	-2	34	+4	NE	5	—	o	*	4	39	29	s.o.c	c.o.c	or.oq	0·7
Jersey (St. Aubin)	1002·4	34	NW	3	ogs	993·9	*	35	+2	NE	2	—	osp	2	12	40	32	o	ogs	ogsp	2·8
Portland Bill	1003·8	33	N	4	oms	996·6	-3	34	+2	NE	5	NE	os	4	5	34	30	c.o	oms	os	*
Dungeness	999·3	35	ENE	6	r	998·7	0	35	+3	SE	4	—	om	4	13	35	32	cps	ors	ors.o	*
Dover	1001·1	34	NE	6	o	1000·4	+1	31	+4	SE	4	—	o	3	5	34	30	ops	ops	s.o	0·0
Wick	1020·8	41	E	2	bc	1018·6	-1	40	+1	E	1	—	o	3	—	44	37	cm.bc	bc	bc.om	*
Nairn	1019·6	38	NE	1	cg	1017·8	*	33	0	E	1	—	cg	2	0·1	40	31	c.bc	bc.c	o.c	3·6
Aberdeen	1019·3	38	ENE	5	bc	1017·6	0	37	-1	ENE	5	—	bc	4	—	43	37	c.o.bc	c.bc	bc	1·4
Leith	1016·1	37	E	2	o	1014·5	-1	37	0	NE	4	NE	c	6	2	39	35	c.ogs	ogh.o	oeg.c	*
Tynemouth	1014·0	37	ENE	5	omqph	1010·9	-3	37	0	ENE	6	S	omqp	6	1	37	35	cmqph	omqph	omhp	
Spurn Head	1008·6	36	ENE	7	s	1005·1	-1	35	0	E	7	—	cqpsh	6	4	38	32	oqs	oqs	cqs	0·0
Yarmouth	?1005·7	37	E	5	o	1002·3	-1	34	0	E	6	—	oqs	5	4	37	33	o	o	oqs	0·0
Clacton-on-Sea	1002·4	35	ENE	6	o	1000·4	0	34	+1	SE	3	NE	o	4	5	36	33	og	og	ogrs	0·0
Nottingham	1007·6	34	NE	5	o	1003·9	*	33	+2	NE	6	NE	s	*	2	35	30	os	se	osr	0·0
Benson (Oxon.)	1004·0	32	NNE	3	s	999·6	-1	32	+8	NE	5	—	s	*	13	33	24	o	os	s	*
Sth Farnborough	1003·7	32	NE	1	s	998·6	-1	32	+7	NE	2	—	os	*	29	33	24	m.o	os	os.o.s	0·0
London (Kew Obsy.)	1002·4	34	NE	4	s	999·4	-1	33	+6	ENE	4	—	oms	*	15	34	27	om	om.os.m	omsq	0·2
NORTHERN EUROPE.																					
Spitsbergen	1006·3	-8	NNW	8	b	1013·5	+8	-9	-14	SW	6	*	b	*	*	23	-11				
Vardö	1004·2	27	SW	3	b	1006·3	+7	28	-2	NW	7	—	s	4	*	28	27				
Bodö	1019·5	34	E	4	o	1020·4	0	36	+4	N	4	—	o	2	3	36	30				
Christiansund	1023·0	34	—	0	f	1022·4	-2	34	0	SE	2	—	o	3	—	34	30				
Skudesnaes	1020·6	34	NE	2	b	1018·7	-2	30	-2	ENE	2	—	b	1	—	41	27				
Færder (X'tania Fjord)	1023·1	28	ENE	6	bc	1021·6	-1	21	-11	NE	6	—	c	2	—	32	21				
The Scaw (Skagen)	1019·9	28	ENE	3	o	1017·7	-3	21	-2	ENE	6	—	o	6	—	28	19				
Blaavands Huk	1014·1	28	E	5	o	1011·4	0	27	-3	E	4	—	s	6	Trace	32	25				
Haparanda														*							
Hernösand														*							
Stockholm														*							
Wisby														*							
Karlstad														*							
FRANCE, &c.																					
The Helder	1005·9	32	ENE	8	o	1004·2	0	30	+2	E	2	—	s	1	4	34	28				
C. Gris Nez	1000·0	32	ENE	6	s	999·8	0	27	0	SE	3	*	o	2	12	36	25				
La Hève	997·3	30	NE	2	s	995·3	*	30	+2	SE	3	*	o	2	—	30	28				
Brest (St. Mathieu)	1005·0	37	E	2	c	997·9	-4	36	+4	N	3	*	r	3	8	39	32				
Rochefort (Ile d'Aix)	1001·2	38	E	3	o	1000·7	0	35	+3	SW	3	*	c	*	—	45	30				
Biarritz	1002·6	43	WSW	5	r	1003·0	0	45	+8	WSW	4	*	o	4	2	48	37				
Paris	999·7	30	S	2	o	1000·4	-1	30	+2	—	0	—	o	*	12	30	25				
Belfort	1005·1	30	WSW	4	s	1008·2	*	27	+2	E	3	*	c	*	?	37	24				
Lyons	1006·7	34	WSW	2	b	1005·8	*	32	+4	ESE	1	*	o	*	4	43	28				
Nice	1004·2	44	SW	4	b	1008·4	0	39	-11	SE	2	*	b	4	4	55	34				
Perpignan	1006·4	41	—	0	b	1003·9	-3	32	-8	NW	1	—	b	*	—	52	30				
Sanguinaire	*					*	*					*									
SOUTHERN EUROPE.																					
Corunna (7 a.m.)	1005·1	43	WSW	4	o	1006·1	-3	39	-4	SSW	3	—	o	4	10	48	39				
Madrid (8 a.m.)														*							
Lisbon (9 a.m.)																					
Gibraltar	1018·3	50	NW	4	b	1017·6	*	48	+2	NW	3	*	r	1	1	59	45				
Malta (8 a.m.)	*	*	*	*	*	1011·9	+4	51	-6	WNW	4	—	o	2	4	64	57				
Azores (Horta, 8 a.m.)	1025·2	*	NE	4	bc	1026·1	0	52	-1	NNW	3	*	b	2	1	59	50				
Madeira (Funchal)	1018·4	57	E	3	o	1019·8	0	55	+1	NE	3	W	•	3	—	63	54				
YESTERDAY'S REPORTS	24th, 8 P.M. G.M.T.					25th February, 7 A.M. G.M.T.															
ITALY.																					
Venice	.	.	.	.	.	1005·9	0	43	+2	—	0	*	f	*	3	*	*				
Turin	.	.	.	.		1005·3	0	37	+13	—	0	*	r	*	?	*	*				
Florence	.	.	.	.	.	1005·0	0	52	+7	—	0	*	o	*	—	*	*				
Pesaro	.	.	.	.	.	1006·8	0	45	+4	—	0	*	f	3	1	*	*				
Leghorn	.	.	.	.	.	1005·9	0	52	0	—	0	*	c	3	Trace	*	*				
Rome	.	.	.	.	.	1008·1	0	50	-2	—	0	*	o	*	—	*	*				
Brindisi	.	.	.	.	.	1012·0	0	57	+2	S	5	*	bc	5	—	*	*				
Cagliari	.	.	.	.	.	1005·6	0	50	-2	NW	4	*	b	2	—	*	*				
Palermo	.	.	.	.	.	1009·6	0	68	0	S	3	*	m	5	—	*	*				

RAINFALL

Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

Warnings Issued at 7 p.m.

0 a, b; 1	Easterly and North-Easterly breezes, fresh at times; changeable, hail and snow showers; cold.
2 a, b; 3; 4 a, b; 5	Easterly wind, strong at times, veering Southerly; unsettled, hail, snow or sleet at times; cold.
6 a, b	Same as Nos. 0 and 1.
7 a, b	Fresh to strong Easterly to North-Easterly wind; unsettled, hail and snow showers; cold.
8 a, b	Northerly and North-Easterly breeze, fresh at times; changeable, some snow; cold.
9 a, b	Same as No. 7.
10 a, b	Same as Nos. 8 and 9a.
Western Channel and Bay 11	Northerly wind, fresh or strong, sea rough; unsettled; some rain and snow; cold.

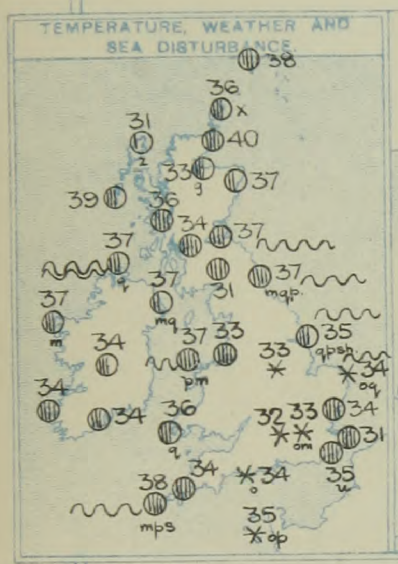
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 26TH FEBRUARY, 1916.

GENERAL INFERENCE.

The depression about the Channel will maintain the unsettled type.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

Scale of Tints for FEBRUARY.

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale 1 : 2 × 10⁷
Nautical Miles
Statute Miles

Issue No. 19,319

DAILY WEATHER REPORT.

SATURDAY, 26TH FEBRUARY, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	24th at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	25th at 7 A.M. Local Time: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1024.4	19	W	2	0	1027.1	0	23	+5	E	3	*	0	*	?	*	*
Helsingfors ...	1028.4	16	SSW	2	b	1030.9	-1	7	-14	ENE	1	*	S	0	.	*	*
Hangö	1027.8	16	.	0	0	1029.4	+2	12	-13	ESE	4	*	0	0	.	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1030.1	12	SSE	1	0	1032.2	-1	14	+7	ENE	2	.	S	*	.	14	10
Moscow	1032.8	12	SE	3	S	1035.7	+2	16	+7	SE	3	*	S	*	1	*	12
Kiev	1027.0	21	-	0	0	1027.9	+1	27	+9	SSE	2	*	0	*	1	*	.
Kharkov	1029.2	25	ESE	2	0	1034.2	+3	19	+4	E	2	*	0	*	.	*	*
Kishinev	1027.3	27	SE	2	0	1027.7	+1	30	+7	ESE	2	*	0	*	-	*	21
Elisabetgrad ...	1027.4	30	ESE	1	0	1030.0	+3	30	+5	ESE	2	*	5	*	.	*	27
Nicolaiev	1026.7	30	ENE	2	0	1028.6	*	32	+5	ESE	3	*	0	0	-	*	25
Odessa	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F			Hr.
Scotland.	Oban	-	42	26	b.	bc. 0	1.6
	Banff	1	42	28	bc	bc. 0	0.6
	St. Andrews	1	39	35	*	*	0.0
Eng. N.E.	Harrogate	3	34	31	osp	o	0.0
	Skegness	9	37	32	s.ou	o.ur	0.0
Eng. N.W.	Morecambe	-	38	35	c	c	0.5
	Blackpool						
	Southport	1	41	31	of	o	0.0
Midlands	Buxton						
	Leamington Spa	4	34	30	od	od	0.0
	Malvern	5	33	27	o	o	0.0
	Ross-on-Wye	3	39	27	s	o.s	0.0
Wales.	Rhyl	4	37	31	s	s	0.0
	Colwyn Bay	3	37	32	s	s.bc	0.0
	Llandudno	2	38	32	s.	s.o	0.0
	Aberystwyth	-	37	32	o.c.b	c.o	0.5
	Tenby	-	38	30	b	b.bc	4.0

	STATIONS.	Rainfall	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	2	36	30	0	0	0.0
	Felixstowe	0.2	36	32	ou	ofu	0.0
	Walton-on-Naze						
	Southend-on-Sea	-	35	25	odg	ops	0.0
England, S.E.	Margate	-	37	28	0	0	0.0
	Ramsgate	-	35	25	0	0	0.0
	Hastings	7	34	25	o.c	o.s	0.0
	Eastbourne	3	36	24	0	o.s	0.0
	Seaford	3	34	23	o.s	0	0.4
	Brighton	5	34	26	o.c.o	o.s	0.3
	Worthing	3	34	26	o.bc	o.s	0.1
	Littlehampton						
	Bognor	?	34	24	0	o.s	0.0
	Southsea	-	34	25	0	o.s	0.0
	Bournemouth	1	33	28	o.s	o.zs	0.0
England, S.W.	Weymouth	0.4	33	26	g.bc	c.s.o	2.8
	Torquay	4	36	38	o.c.bc.b	b.c.o	2.5
	Paignton	7	35	19	o.s	bc	1.7
	Penzance	2	41	30	o.s	o.c	1.5
	Newquay	-	38	26	c	o	2.7
	Ilfracombe	-	37	27	c.bc.b	bc.c	2.9
	Weston-super-Mare ...	-	36	23	b.b.c	bc.c.s	1.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F	°F	°F.	mm.§			
Greenwich (Royal Obsy.) ...	92	92	0.4	36	29	30	11	o.c.o	o.os	os
City (Bunhill Row)	*	*	0.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	89	93	0.3	36	32	31	12	s.o	s	s
Camden Sq. (Brit. Rainfall)	87	88	0.5	36	32	31	13	o.m	a.os	*
Hampstead (Reservoir) ...	*	86	0.2	32	29	27	14	o.sx	o.sx	o
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*	0.2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	92	92	0.3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
213 Joules	5.6 Milliwatts.	31 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain-fall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	2	33	22	20	cs	s.bc	c.s	2.3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	35	27	?	cgm.o	o	os	*

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

26th 27th Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.49 / 6.47	12.6 / 12.6	5.23 / 5.25
Greenwich	6.54 / 6.53	12.13 / 12.13	5.32 / 5.33
Wick	7.18 / 7.16	12.25 / 12.25	5.32 / 5.34
Valencia	7.37 / 7.35	12.54 / 12.54	6.12 / 6.13

NOTES ON YESTERDAY'S WEATHER.

Afternoon temperatures below 40° prevailed, 33° in places. Snow fell generally, yielding as much as 29 mm. of water at Farnborough. As a rule there was little or no sunshine, but locally there were good records, 8½ hours at Deerness.

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

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

Printed at the Meteorological Office, South Kensington, London, S.W. by Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 58.

Sunday 27th February

	STATIONS.	Yesterday Evening: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather.	This Morning 7 A.M., G.M.T.: Barometer Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 Hours: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1016.2	39	E	1	c	1011.2	-2	40	+2	E	3	E	bc	3	0.3	41	36	bcp	c	bc	*
	Deerness (Orkney)	1015.2	37	E	2	ors	1009.1	*	37	+1	ESE	3	-	o	4	2	40	36	c.o	oph	o.c.bc.o	0.0
	Stornoway ...	1014.8	40	ENE	2	c	1008.0	-3	35	+4	NE	3	-	o	3	-	42	31	bc	bc.c	bc.o	1.0
	Castlebay (Barra Hd.)	1013.1	38	NE	2	b	.	.	.	.	.	.	.	.	.	-	42	35	c.b	b	bc	6.2
	Glasgow ...	1011.0	33	NE	2	bc	1003.6	-4	31	-8	ENE	2	-	osg	*	1	36	30	csp	c	ocsp.o	1.0
	Eskdalemuir ...	1008.8	29	NE	5	osd	1002.2	-4	30	-1	NE	4	-	os	*	1	33	28	o.osd.o	o.osd	osd.os	0.0
	Malin Head ...	1011.0	37	E	6	cqf	1003.7	-5	35	-2	E	5	E	cq	5	-	39	35	cq	cq	cq	1.8
	Blacksod Point	1010.1	37	ENE	3	cm	1003.6	-3	34	-3	ESE	2	-	bc	3	-	40	33	cz	cm	bc	*
	Valencia ...	1007.0	37	NNE	4	c	1002.4	-2	31	-3	ENE	2	NE	bx	*	..	40	30	o.c.os	c.ps	c.b.b.b.x	4.3
	Roche's Point	1006.6	36	NE	3	c	1002.0	*	33	-1	NNE	3	NW	b	2	0.4	40	33	bcsp	csp	bx	*
	Birr Castle ...	1007.2	35	NE	3	o	1002.1	*	31	-3	N	1	-	o	*	1	38	30	cps	cps	cps	0.0
	Donaghadee ...	1008.6	37	E	5	bcmq	1002.4	-4	35	-2	ENE	5	NE	cg	3	-	40	35	bcmq	bcmq	cmq	*
	Liverpool (Bidston)	1003.9	33	NE	3	o	999.8	-2	32	-1	NE	1	-	o	2	-	35	32	ops	o	o	0.0
	Holyhead ...	1004.3	35	ENE	8	ops	999.4	-3	37	0	ENE	5	NE	ce	4	1	38	35	ops.o	ops.c.o	op.o.c	0.0
	Pembroke (St. Ann's)	1000.5	34	NNE	3	c	998.8	-2	34	-2	NNE	3	.	c	2	0.2	39	32	cq	c	bc.c	0.5
	Scilly (St. Mary's)	997.1	37	NE	5	oqps	996.9	-1	39	+1	NNE	4	NE	omps.c	5	11	40	35	cqps	c.oqps	omps.c	0.3
	Falmouth ...	996.7	35	NNE	3	cqz	995.7	0	34	0	N	2	-	c	*	1	37	28	ps.oc.o	cqpc.o	bos.c	0.1
	Jersey (St. Aubin)	993.2	35	NE	4	o	991.6	*	37	+2	NW	2	-	o	2	3	38	34	ogspo	og.o	op	0.0
	Portland Bill ...	995.6	38	NE	5	o	992.0	-2	35	+1	NNE	4	NE	oc	4	2	37	31	c.os	ops	ops.r	*
	Dungeness ...	997.4	38	ESE	4	o	992.6	0	37	+2	ESE	4	S	c	4	4	38	33	o.c	c.o	cr.c	*
	Dover ...	999.1	38	ESE	6	c	993.2	-1	36	+5	SE	5	SE	o	4	1	38	30	o.c.bc	bc.c	c.bc.bo	2.6
	Wick ...	1014.6	40	E	3	c	1008.8	-3	38	-2	SE	3	E	c	4	-	42	36	om.c	c	cq	*
	Nairn ...	1014.0	36	E	1	bc	1007.0	*	32	-1	E	1	-	ou	2	0.1	39	28	c.bc	bcq	bcpsq	5.8
	Aberdeen ...	1013.1	37	ENE	5	c	1005.7	-3	36	-1	ENE	6	-	opq	5	3	41	34	c.bc	c.bc	ocspq	2.0
	Leith ...	1010.8	35	NE	4	s	1002.9	-3	35	-2	NE	3	-	r	6	5	38	33	c.os.o	osrs	sr	*
	Tynemouth ...	1007.6	35	ENE	6	omqph	1001.0	-3	35	-2	E	3	-	omr	5	4	36	33	omqph	omqph	omr	*
	Spurn Head ...	1003.0	36	E	5	oqr	999.8	-2	35	0	E	4	-	o	5	3	36	33	oqs	oqs.r	bc	0.0
	Yarmouth	1002.4	36	SE	3	o	998.0	-4	38	+4	SE	5	.	bc	3	3	38	33	bcqps	bc.o	o.bc	1.0
	Clacton-on-Sea	1000.3	37	E	4	c	994.2	-2	37	+3	E	5	-	r	5	1	39	33	oqc	c	coqr	0.4
	Nottingham ...	1002.2	34	NE	4	s	998.2	*	33	0	NE	4	NE	c	*	1	34	30	s	s	s.d.c.b	0.0
	Benson (Oxon.) ...	999.6	32	ENE	3	o	993.5	-3	35	+3	NNE	4	-	s	*	2	34	31	s.o	o	p.s	*
	Sth Farnborough	998.6	32	NE	3	o	991.8	-2	33	+1	NE	3	-	osm	*	6	34	31	s.o	om	os.osm	0.0
	London (Kew Obsy.)	999.5	34	ENE	3	ofs	992.9	-3	34	+1	ENE	3	-	oms	*	5	36	33	osm.gom	om.ofs	ofs.omh	0.0
NORTHERN EUROPE.	Spitsbergen ...	1020.5	-8	?ENE	6	b	1022.1	+2	-11	-2	SE	2	*	b	*	*	-8	-13				
	Vardö ...	1024.5	25	NW	6	o	1024.8	0	23	-5	WNW	7	-	o	4	*	28	25				
	Bodö ...	1025.6	32	NE	4	b	1023.8	0	32	-4	E	2	-	b	2	-	36	30				
	Christiansund	1020.3	32	SE	2	b	1015.8	0	32	-2	SE	3	-	b	3	-	34	32				
	Skudesnaes ..	1015.0	36	NE	2	b	1011.0	-3	36	+6	E	5	-	o	2	-	39	27				
	Færder (X'iania Fjord)	1019.4	27	NE	6	b	1017.7	0	25	+4	NE	7	-	s	3	?	27	21				
	The Scaw (Skagen)	1015.7	23	ENE	6	o	1013.6	0	27	+6	E	5	-	s	5	?	32	16				
	Blaavands Huk	1008.7	28	ENE	4	s	1008.3	+3	28	+1	SE	3	-	m	2	Trace	30	23				
	Haparanda ...	1029.9	21	S	2	o	1032.8	0	16	+3	SE	2	-	s	*	1	23	12				
	Hernösand ...	1027.1	25	N	2	o	1029.9	0	16	0	NNE	4	-	o	*	-	27	12				
	Stockholm ...	1021.6	19	N	4	o	1021.1	+1	30	+18	E	4	-	s	*	2	30	12				
	Wisby ...	1015.3	34	ENE	4	o	1017.5	+2	32	+7	ENE	2	-	s	*	4	34	23				
	Karlstad ...	1021.1	19	ENE	2	o	1020.6	0	21	+5	NE	6	-	s	*	Trace	25	14				
FRANCE, &c.	The Helder ...	1004.0	32	ENE	1	c	1001.2	0	34	+4	ESE	2	-	c	1	..	34	30				
	C. Gris Nez ...	998.9	35	E	3	o	993.0	0	34	+7	SE	3	*	o	2	1	36	27				
	La Hève ...	992.3	32	ESE	5	s	990.4	*	34	+4	SSW	4	*	o	3	4	34	30				
	Brest (St. Mathieu)	995.0	36	N	5	r	996.4	0	39	+3	NNW	4	*	o	3	14	41	34				
	Rochefort (Ile d'Aix)	995.4	41	WSW	8	o	998.3	+3	43	+8	WSW	6	*	o	*	5	46	35				
	Biarritz ...	1001.9	46	SSW	3	bc	1003.9	+1	46	+1	SW	5	*	o	4	4	50	41				
	Paris ...	998.4	36	SE	3	o	996.0	+2	36	+6	SSW	3	-	o	*	3	39	30				
	Belfort ...	1004.4	36	ENE	3	o	1005.9	*	28	+1	E	4	*	c	*	-	41	26				
	Lyons ...	1004.3	39	SW	4	o	1003.8	*	36	+4	S	1	*	c	*	-	48	32				
	Nice ...	1007.1	37	E	2	b	1006.9	0	36	-3	E	2	*	o	5	18	39	32				
	Perpignan ..	1003.7	45	SW	2	c	1006.6	+4	39	+7	W	1	-	b	*	-	54	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007.4	48	NNW	5	bc	1006.9	-2	46	+7	SW	3	-	o	3	10	48	39				
	Madrid (8 a.m.)	1008.3	43	WSW	4	bc	1015.0	+1	34		-	0	.	b	*	1	45	25				
	Lisbon (9 a.m.)																					
	Gibraltar ...							*					*									
	Malta (8 a.m.) ...	*	*	*	*	*	1015.5	+2	55	-2	NNE	3	-	b	3	-	63	52				
	Azores (Horta 8 a.m.)	1025.9	*	N	4	c							*									
	Madeira (Funchal)	1019.1	59	NE	2	o	1017.1	-2	54	-1	W	2	-	o	2	-	63	54				
YESTERDAY'S REPORTS		....25th., 8 P.M. G.M.T.					...26th., 7 A.M. G.M.T.															
ITALY.	Venice ...	1005.0	46	S	2	r	1017.9	0	43	0	SSW	2	*	b	4	3	*	*				
	Turin ...	1004.3	44	-	0	o	1008.2	0	34	-3	NE	3	*	f	*	6	*	*				
	Florence ...	1005.4	46	N.W	2	r	1009.3	0	43	-9	S	1	*	bc	*	4	*	*				
	Pesaro ...	1005.3	55	WS.W	2	b	1009.3	0	45	0	S	1	*	b	2	Trace	*	*				
	Leghorn ...	.	.	.	.	.	1009.2	0	50	-2	W	4	*	o	6	3	*	*				
	Rome ...	1006.9	55	SW.	2	c	?	0	48	-2	S	1	*	bc	*	-	*	*				
	Brindisi ...	1011.3	57	?SE	7	o	1011.0	0	55	-2	W	3	*	o	4	-	*	*				
	Cagliari ...	1012.2	57	?NNW	6	b	1013.6	0	52	-4	NW	4	*	b	2	-	*	*				
	Palermo ...	?1012.2	?66	WSW	2	o	1014.7	0	55	-13	SW	1	*	b	2	1	*	*				

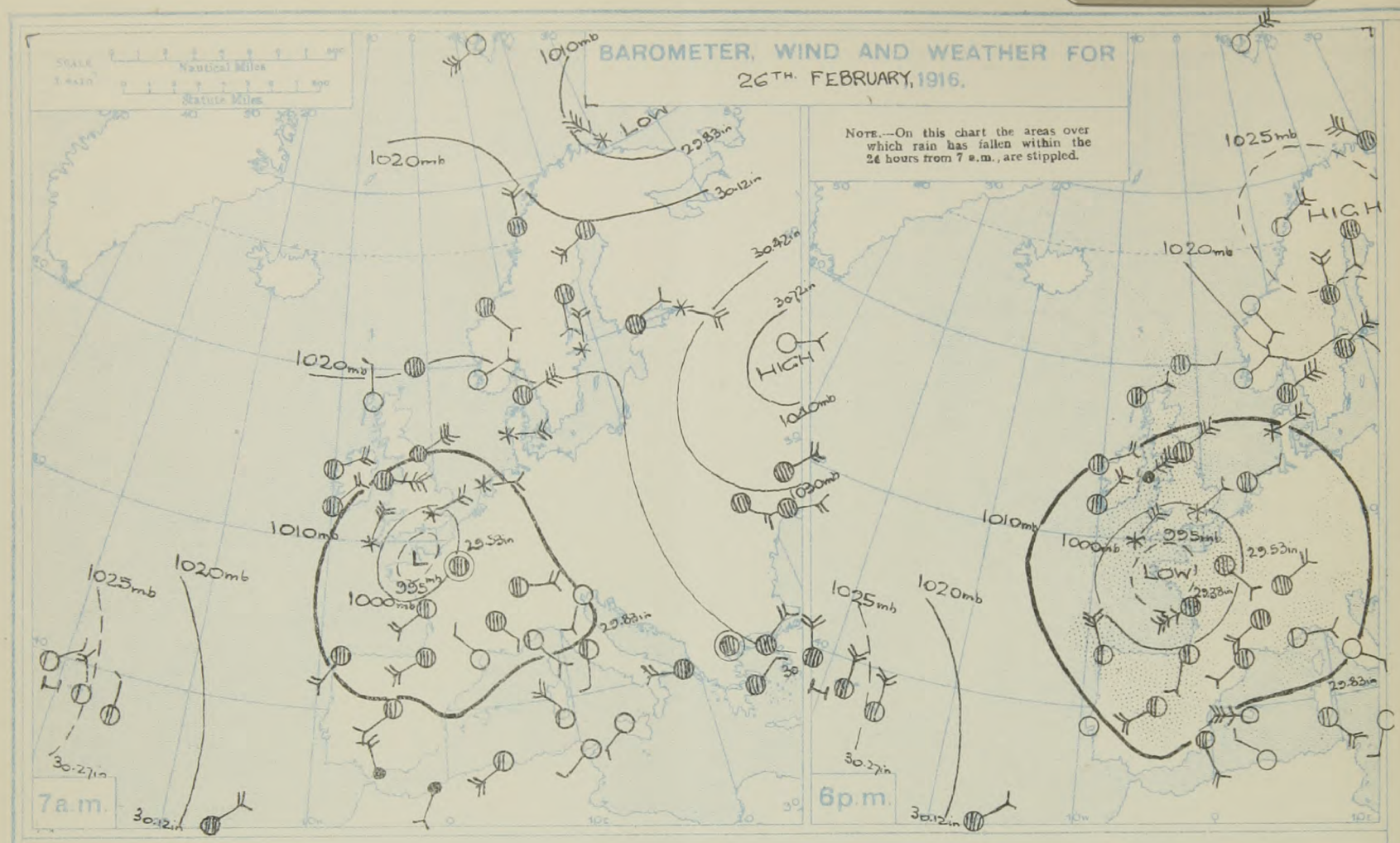
UPPER AIR
South Farnborough.
Pilot Balloon Ascent at .....

GALES
Duration and Extreme Force in British Islands

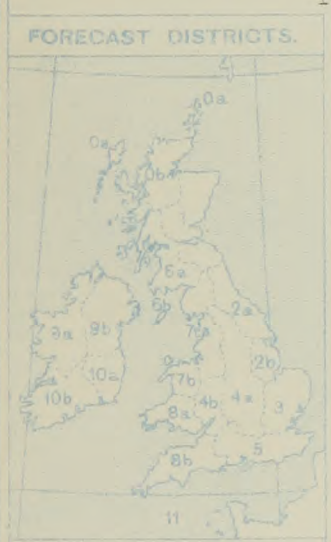
Holyhead: 26th Feb

E.N.E. 8 at 1 p.m.
E.N.E. 8 at 6 p.m.

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.



STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0 a, b; 1; 2 a, b — Easterly to North-Easterly breezes; moderate or fresh locally; some rain or sleet; cold.

3 — South-Easterly and Easterly breezes; moderate or fresh locally; some rain, sleet or snow; cold.

4 a, b — North-Easterly or Northerly or North-Westerly breezes, light to moderate; fair periods some rain or snow showers; cold.

5 — Same as No. 3.

6 a, b; 7 a, b — Same as Nos. 0 to 2.

8 a, b — Same as No. 4.

9 a, b — Same as Nos. 0 to 2.

10 a, b — Same as No. 4.

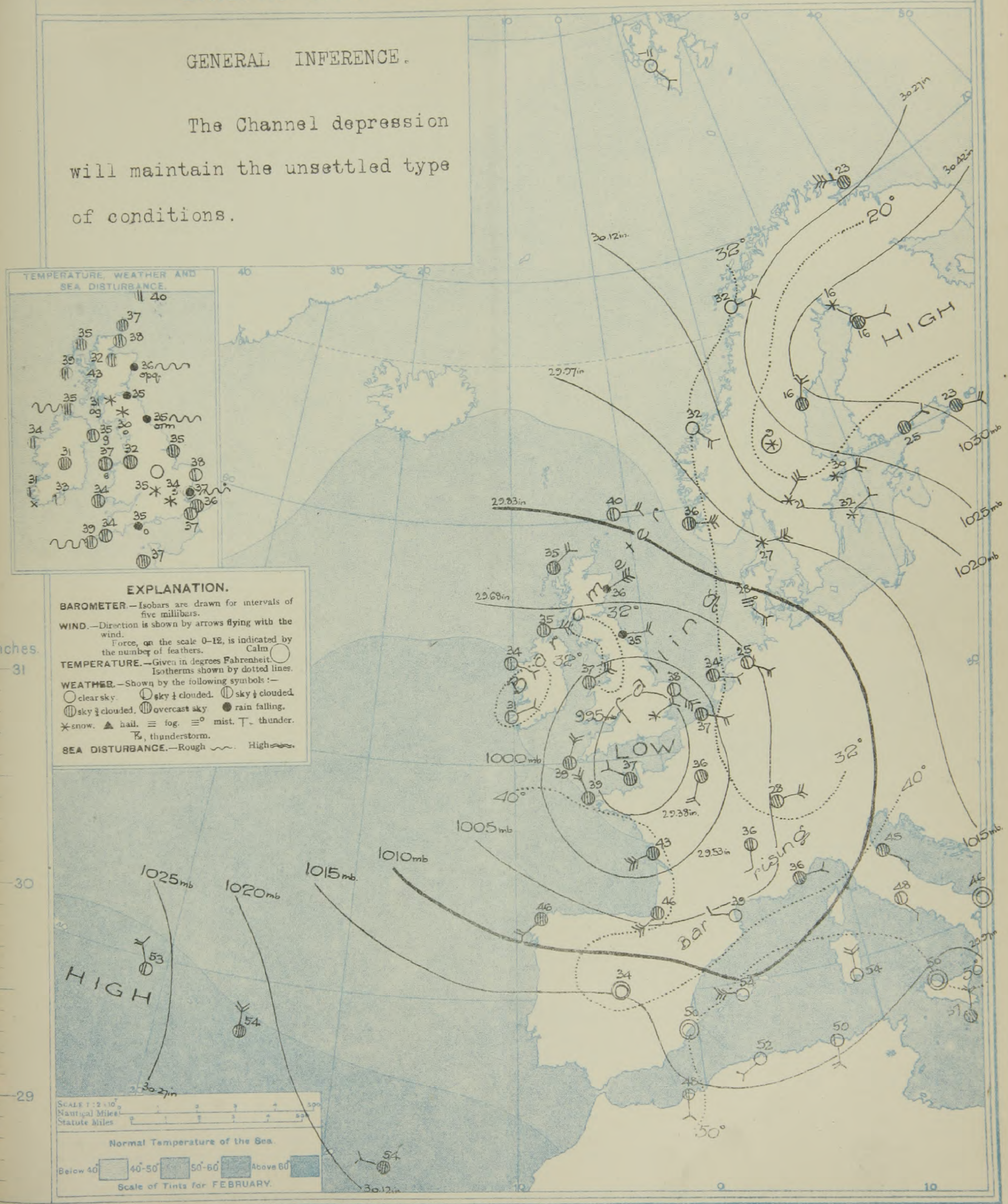
Western Channel and Bay 11 — Moderate to fresh Northerly breeze; sea moderate to rather rough; fair to dull, some cold precipitation.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 27TH FEBRUARY, 1916.



Issue No. 19,820.

DAILY WEATHER REPORT.

27th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	25th AT 9 P.M. LOCAL TIME. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather	26th AT 7 A.M. LOCAL TIME. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	F.								
Archangel	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.
Uleaborg	1027.0	25	SW	3	0	1022.7	-1	14	-9	S	4	*	bc	*	.	*	*
Helsingfors ...	1028.4	14	ENE	2	S	1025.5	-1	16	+9	ENE	2	*	0	0	TRACE	*	*
Hangö	1027.6	12	.	0	0	1024.2	-2	16	+4	ENE	2	*	0	0	1	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1031.0	18	E	3	S	1026.9	-2	23	+9	SE	3	.	S	*	2	23	10
Moscow	1039.6	9	SE	3	b	1040.4	0	1	-15	SE	2	*	b	*	.	*	0
Kiev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Kharkov	1036.8	18	E	2	0	1037.2	0	10	-9	E	3	*	b	*	.	*	*
Kishinev	1027.7	32	S	5	c	1027.7	0	28	-2	SE	3	*	0	*	.	*	27
Elisabetgrad ...	1031.8	28	ESE	3	0	1030.1	-1	28	-1	ESE	4	*	0	*	.	*	27
Nicolaiev	1030.9	28	ENE	5	0	1028.6	*	28	-4	ENE	5	*	0	0	.	*	27
Odessa	1029.2	30	ESE	3	0	1027.4	-6	30	.	ESE	3	*	0	0	.	*	28

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	.	41	33	bc	bc	4.3
	Banff	0.2	42	32	bc	bc	7.1
	St. Andrews				*	*	
Eng., N.E.	Harrogate	3	32	30	S	S.0	0.0
	Skegness						
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	.	47	33	oh.sc	os.c.o	0.7
Midlands	Buxton	3	31	28	CS	CS	0.0
	Leamington Spa	2	35	31	oS	0	0.0
	Malvern						
	Ross-on-Wye	7	39	29	S	0	0.0
Wales.	Rhyl						
	Colwyn Bay						
	Llandudno	0.3	41	34	C	C	0.0
	Aberystwyth	.	36	33	b.c	c.0	0.7
	Tenby	1	.38	33	0	bc.c	0.1
England, E.	Lowestoft						
	Felixstowe	6	37	32	0	0	0.4
	Walton-on-Naze	6	37	32	0.c	bc.b.og	0.2
	Southend-on-Sea	10	36	31	g	c	1.3
England, S.E.	Margate	.	39	31	c	bc.c	1.3
	Ramsgate	3	34	30	0.c	0	2.0
	Hastings	14	37	32	os.o	bc.os	1.0
	Eastbourne	16	36	32	0	0	0.0
	Seaford	13	37	32	0	bc.o	0.8
	Brighton	9	36	27	0.c	c.o	0.6
	Worthing	8	36	32	0	bc.o	1.5
	Littlehampton	6	36	33	0	bc.o	0.5
	Bognor	7	39	32	bc	bcS	0.6
	Southsea						
	Bournemouth	13	35	26	S.o	o	0.2
England, S.W.	Weymouth...	14	36	31	os.c	c.bc.o	0.5
	Torquay	10	37	31	osp	o	0.0
	Paignton	10	38	23	ops	o	0.0
	Penzance	25	37	33	ohs	osr	0.0
	Newquay	*	37	33	os	os	0.0
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	84	98	0.1	36	32	30	6	osp	osp	osp
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	95	0.0	37	33	32	6	oS	om	S.om
Camden Sq. (Brit. Rainfall)	79	93	0.0	35	32	32	6	og.o	c.0	*
Hampstead (Reservoir) ...	*	89	0.0	33	30	27	4	ox	osx	os
Richmond Park ...	*	*	0.0							
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	96	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
179 Joules	4.7 Milliwatts.	2.4 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	3	39	33	31	ophs	opqh	Sq	*
Darwen to 9 p.m.	6	33	30	28	ouS	oS	oS	0.0
Manchester ,,	1	36	33	*	o.S	oS	os.cdo	0.0
Birmingham ,,	2	33	29	30	*	S	S.0	0.0
Oxford to 8 p.m.	*	34	31	28	oS	S.o	osp	*
Teignmouth to 9 ,,	10	36	33	31	Sp.r	sp	C	0.0
Plymouth ,,	6	36	32	*	oqS	oqS	bq.oqS	0.0
S. Kensington (Museum Grounds to 6 p.m.)	6	35	32	32	obq.o	oS.o	oqsp	*

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

27th & 28th Feb., 1916.	Sunrise	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.47 / 7.45	12.6 / 12.6	5.25 / 5.27
Greenwich	7.53 / 7.51	12.13 / 12.13	5.32 / 5.35
Wick	7.16 / 7.14	12.25 / 12.25	5.34 / 3.36
Valencia	7.35 / 7.33	12.54 / 12.54	6.13 / 6.15

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Heights in Kilometres	S. Farnboro' 19th 7.9 a.m. Comp. to E.	Comp. to N.	Benson 21st 12h 18m Comp. to E.	Comp. to N.	S. Farnboro' 24th 15h 56m Comp. to E.	Comp. to N.	Aberdeen 25th Noon Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
3														
2			-9	-2										
1			-8	-1	+8	+1	-11	-3						
5	+15	-6	-8	0	-7	0	-7	-2						
0	+7	-1	-3	-4	+3	0	-7	-1						

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

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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 59. { MONDAY, 28th February.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1010·4	37	ESE	4	c	1014·0	0	38	-1	SE	3	.	o	3	1	42	35	bc	cp	bcp	
	Deerness (Orkney)	1007·1	37	SE	5	cp	1011·5	*	38	+1	E	4	.	ou	5	1	39	35	op sr	op sr.c	.c.o	0·2
	Stornoway ...	1005·2	37	ENE	5	odp	1009·6	+3	37	+2	ENE	1	.	b	1	0·2	39	34	odp	odp	odp.b	0·0
	Castlebay (Barra Isd.)	1002·5	38	NE	3	or	1006·8	+2	39	0	NE	3	NE	bc	3	1	39	34	c.osp	s.hp.r	r.cp.bc	0·1
	Glasgow ...	1002·6	35	NE	2	c	1004·3	+2	36	+5	ENE	3	.	o	*	1	37	31	sr.s	o.c	c.bc.op	0·1
	Eskdalemuir ...	1001·3	33	NE	4	bc	1002·7	0	32	+2	NE	5	.	os	*	2	34	29	os	osp.bc	bc.c	1·0
	Malin Head ...	999·8	36	ENE	4	cmqps	1002·0	0	39	+4	NE	6	E	cmq	4	0·3	39	34	cmqps	cmqps	cmq	0·0
	Blacksod Point	1001·0	34	ENE	3	os	1002·6	+1	31	-3	N	2	.	bc	2	1	37	31	bc	ps	bc.ps	*
	Valencia ...	1000·4	37	ENE	2	bc	1001·2	+1	32	+1	NNE	1	NE	c	*	0·2	42	29	b.bc.c.bc	bc.c	c.bc.bos	6·3
	Roche's Point	1000·6	38	N	2	c	1001·2	*	32	-1	N	2	.	o	2	0·2	41	31	bc.c	c	csp.o	*
	Birr Castle ...	1000·0	34	NNW	1	r	1000·7	*	29	-2	NNW	1	.	f	*	2	36	29	og	ogp.sr	osf	0·0
	Donaghadee ...	1000·2	37	E	3	c	1001·1	+1	38	+3	ESE	4	E	ogmq	4	1	39	34	cmps	bc	ogmpq	*
	Liverpool (Bidston)	997·0	38	E	3	o	1000·1	+2	32	-1	.	0	.	0	1	.	40	32	bcm	om	o	2·2
	Holyhead ...	998·7	39	ENE	4	bcm	999·9	0	36	-1	E	4	.	oemg	3	3	41	35	cp.s	c.bc	o.od.om	2·5
	Pembroke (St. Ann's)	998·1	41	NNW	2	bcu	999·2	0	39	+5	NW	1	.	o	1	.	42	34	bc	bc	c	5·2
	Scilly (St. Mary's)	998·6	40	N	1	cm	998·1	-3	40	+1	ESE	2	E	c	3	.	45	38	bc	bc	c.o.c	5·1
	Falmouth ...	998·4	37	WNW	1	bz	999·2	-2	32	-2	WNW	1	.	cx	*	Trace	41	31	c.bc	bc b	b.bcx	5·7
	Jersey (St. Aubin)	996·8	41	W	4	c	999·7	*	40	+3	SE	3	.	o	3	2	41	37	ph.bcp	op.c	op o	0·8
	Portland Bill ...	995·8	38	NW	4	o	999·7	0	36	+1	NE	1	.	c	2	1	41	34	ops	o	o.c	*
	Dungeness ...	995·6	37	SW	3	c	1001·2	+2	34	-3	E	1	.	cx	1	12	39	33	cs.r	cs.c	c.o.bcx	*
	Dover	993·7	33	SSW	6	s	1001·7	+2	35	-1	.	0	S	b	3	9	37	31	oph	c.or.s	sp.o.bc	0·6
	Wick	1006·5	38	SE	4	c	1010·4	+1	40	+2	SE	3	.	o	5	1	41	35	omp.rs	om.cgp	c.omph	*
	Nairn	1005·1	35	E	1	c	1008·2	*	36	+4	ENE	2	.	cgm	2	1	37	31	rs.cd	dc	c.bc.c	0·0
	Aberdeen ...	1005·4	39	ESE	5	o	1008·2	0	39	+3	E	5	.	o	4	3	40	34	ogrsp	orsp	op	0·0
	Leith	1001·6	37	E	1	c	1003·9	+1	39	+4	E	3	.	o	6	2	40	34	rs.go	og.o.c	c.e.go	*
	Tynemouth ...	999·8	40	ENE	4	cm	1001·4	+1	38	+3	E	4	.	ogm	5	2	41	35	cm	em	ogm	*
	Spurn Head ...	996·4	36	ESE	5	s	998·8	0	36	+1	SE	4	.	o	5	6	40	32	c.ogg	og.s	ogps	1·2
	Yarmouth ...	996·1	38	SSE	5	o	1000·2	+3	32	-6	SSE	2	.	bcm	3	3	40	31	omph	omph	od.bcf	?
	Clacton-on-Sea	993·4	37	ESE	5	o	1000·7	+2	35	-2	SSW	4	SW	o	3	7	39	33	ogr.c	c.ogd	ogr.og	0·8
	Nottingham ...	995·7	34	ESE	3	o	998·7	*	35	+2	NNW	2	N	om	*	5	37	31	c.osr	o.cp	c.o	0·1
	Benson (Oxon.) ...	994·5	34	NNE	1	o	1000·2	+1	27	-8	.	0	SW	b	*	2	37	27	bc.o	o	o	*
	Sth Farnborough	994·2	35	NW	1	m	1000·4	+2	28	-5	S	1	W	m	*	2	39	27	s.ocm	om	om	1·5
	London (Kew Obsy.)	994·3	36	N	1	om	1000·7	+2	32	-2	SSW	2	SW	cm	*	1	38	31	omS.osm	om	om.cm	0·5
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö	1022·1	28	E	4	b	1019·5	-2	23	-9	E	4	.	b	2	.	34	21				
	Christiansund	1016·6	36	.	0	b	1016·3	-2	32	0	NE	3	.	c	3	.	41	32				
	Skudesnaes ..	1014·4	32	.	0	b	1011·9	-1	32	-4	E	2	.	S	1	?	37	27				
	Færder (Christiania Fjord)	1019·1	27	NE	6	s	1015·3	-1	28	+3	NE	6	.	o	2	?	28	23				
	The Scaw (Skagen)	1015·4	30	ENE	4	o	1016·6	0	32	+5	ENE	5	.	o	5	?	34	27				
	Blaavands Huk	1010·1	30	ESE	3	o	1005·6	-1	32	+4	SE	2	.	o	3	.	32	25				
	Haparanda ...	1029·9	18	WSW	1	o	1026·6	-2	18	+2	SSW	2	.	o	*	Trace	18	14				
	Hernösand ...	1029·0	16	NNE	4	o	1026·1	-1	18	+2	N	2	.	o	*	1	18	12				
	Stockholm ...	1021·2	30	ESE	2	o	1020·4	-2	30	0	E	2	.	o	*	1	32	28				
	Wisby	1018·6	32	ESE	2	o	1017·0	-1	32	0	SE	2	.	o	2	2	34	30				
	Karlstad	1019·3	25	ENE	4	o	1017·7	-1	30	+9	NE	2	.	o	*	1	30	19				
FRANCE, &c	The Helder ...	1001·0	37	ESE	3	c	1002·3	0	32	-2	SSE	2	.	bc	1	Trace	37	32				
	C. Gris Nez ...	994·9	36	S	5	r	1000·8	+1	38	+4	S	4	*	o	3	5	38	34				
	La Hève	995·6	37	W	5	o	1002·3	*	35	+1	ESE	3	*	m	2	2	37	34				
	Brest (St. Mathieu)	1000·4	42	NW	2	bc	998·3	-3	40	+1	E	4	*	o	3	.	43	36				
	Rochefort (Ile d'Aix)	1003·4	45	W	6	r	998·0	-3	43	0	SSE	6	*	o	*	1	48	41				
	Biarritz	1005·2	52	SSW	4	c	999·1	-3	53	+7	S	4	*	c	2	.	55	46				
	Paris	1000·0	39	S	2	b	1004·8	-1	34	-2	SSE	1	-	r	*	Trace	43	30				
	Belfort	1006·1	34	W	3	o	1010·9	*	34	+6	.	0	*	bc	*	2	42	28				
	Lyons	1007·0	45	SW	1	o	1008·2	*	39	+3	S	4	*	bc	*	.	49	36				
	Nice	1011·7	42	E	3	o	1014·1	+1	38	+2	E	2	*	c	4	Trace	45	36				
	Perpignan ..	1008·3	46	.	0	b	1005·2	-5	36	.	.	0	SW	o	*	.	57	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1011·8	55	W	3	b	1007·4	*	53	.	SW	7	*	m	4	Trace	61	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1017·6	0	54	+1	.	0	.	o	0	.	61	52				
	Azores (Horta, 8 a.m.)	1020·8	*	NNW	4	c	1018·3	0	53	.	NNW	5	*	o	3	.	57	52				
	Madeira (Funchal)																					
YESTERDAY'S REPORTS		...26th... 8 P.M. G.M.T.					...27th..., 7 A.M. G.M.T.															
ITALY.	Venice	1008·9	45	.	0	r	1009·4	0	41	-2	NNE	2	*	o	3	8	*	*				
	Turin	1008·2	36	.	0	bc	1009·2	0	34	0	.	0	*	o	*	1	*	*				
	Florence	1008·9	45	.	0	r	1005·4	+1	43	0	SW	1	*	o	*	7	*	*				
	Pesaro	1011·4	46	SE	4	b	1012·1	0	45	0	SE	1	*	o	1	.	*	*				
	Leghorn	.	.	.	.	.	?	0	45	-5	?	?	*	o	4	7	*	*				
	Rome	1013·3	46	W	5	o	1012·1	0	48	0	SE	1	*	bc	*	Trace	*	*				
	Brindisi	1012·3	55	.	0	b	1014·4	0	46	-9	SW	1	*	b	2	.	*	*				
	Cagliari	1013·5	59	N	3	b	1011·0	0	54	+2	N	4	*	b	4	.	*	*				
	Palermo	1016·1	59	NE	2	b	1016·1	0	50	0	.	0	*	b	1	.	*	*				

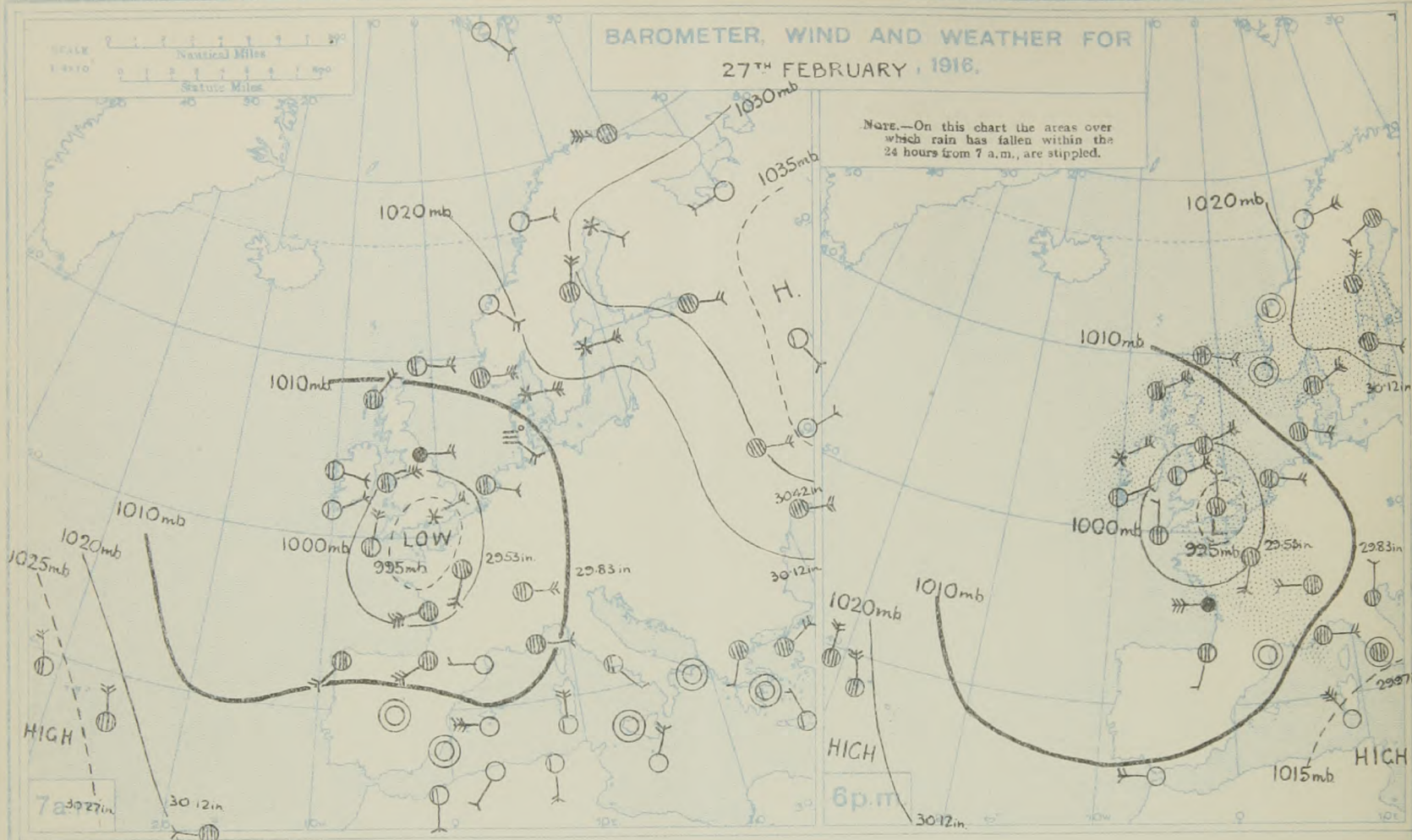
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.15 a.m.

Wind at 1000 m. WSW 15 mph.
" " 500 m. W 10 "

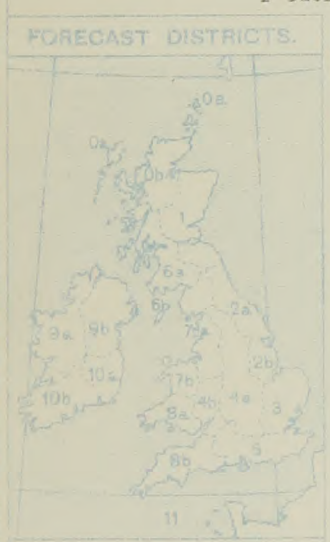
RAINFALL
Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.



0 {a, b}, 1, 2 {a, b}: Easterly breeze, mostly moderate; some rain or snow; cold.

3, 4 {a, b}, 5: Light variable to South-Easterly breeze; fair generally, some mist; cold.

6 {a, b}, 7 {a, b}: Same as Nos. 0 to 2.

8 {a, b}: Same as Nos. 3 to 5.

9 {a, b}, 10 {a, b}: Light variable Northerly breeze; fair generally, some mist; cold.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

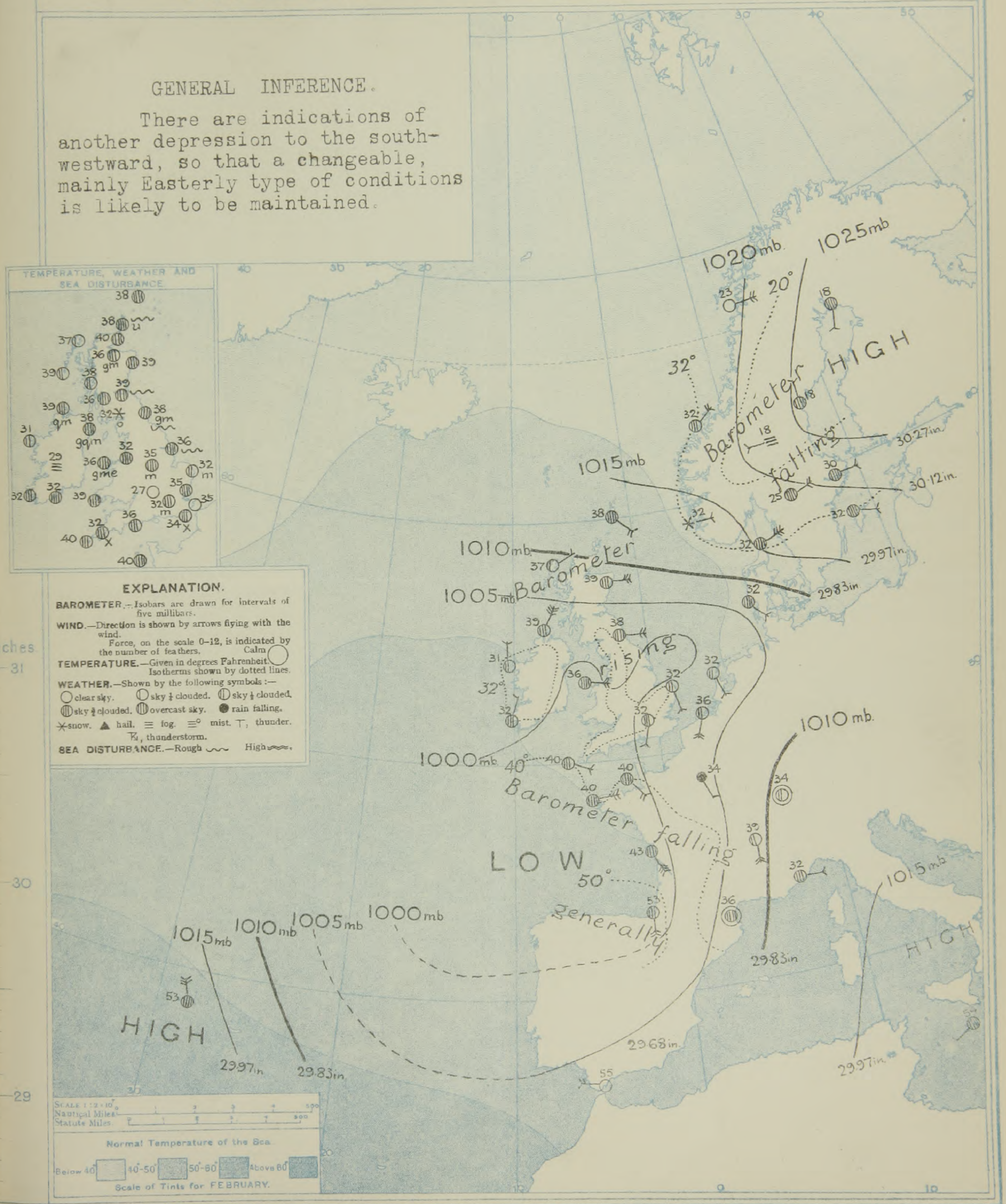
Western Channel and Bay 11

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 28TH FEBRUARY, 1916.



DAILY WEATHER REPORT.

Monday, 28th February 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	28th at 9 P.M. local time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	27th at 7 A.M. local time: Barometer Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1020·8	19	SW	6	s	1092·6	+6	3	-	W	2	*	b	0	-	*	
Uleaborg	1030·3	16	SW	2	0	1033·1	0	16	+2	E	2	*	0	*	-	*	*
Helsingfors ...	1025·5	25	ENE	2	s	1027·3	+1	25	+9	ENE	2	*	0	0	1	*	*
Hangö	1024·0	25	ESE	2	0	1025·1	0	27	+11	ESE	2	*	0	0	?	*	*
Riga	.	.	.	.	-	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1027·9	28	SE	2	0	1029·9	0	23	0	ESE	3	-	0	*	-	?	?
Moscow	1028·6	12	S	3	b	1039·5	+1	3	+2	SSE	2	*	b	*	-	*	
Kiev	1028·3	28	ESE	4	0	1027·9	0	27	.	ESE	3	*	0	*	1	*	.25
Kharkov	?	18	ESE	3	?	1037·1	0	9	-1	E	2	*	b	*	-	*	*
Kishinev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Elisabetgrad ...	1029·5	28	SSE	4	0	1025·5	+1	28	0	ESE	4	*	0	*	-	*	.27
Nicolaiev	1026·7	32	ENE	6	0	1024·4	*	32	+4	ESE	6	*	0	0	-	*	.27
Odessa	1025·5	32	SE	5	0	1023·4	0	32	+2	ESE	4	*	0	0	-	*	.32

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

	STATIONS.	Rainfall.	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
		mm.§					
Scotland.	Oban	-	39	31	0	0p	0·3
	Banff	4	38	30	0s	bc.p.r.s	0·4
	St. Andrews				*	*	
Eng. N.E.	Harrogate	0·3	39	30	0.c	0.c	0·5
	Skegness	3	41	34	0.p.s	c.0.s.0	0·6
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	42	32	c.bc.c	0	4·2
Midlands	Buxton						
	Leamington Spa	1	36	32	0s	0.c	0·1
	Malvern	2	35	30	0	0	0·0
	Ross-on-Wye	2	37	32	0	0.s	0·0
Wales.	Rhyl	-	40	32	b	b	2·3
	Colwyn Bay	-	39	35	b.bc	bc	4·0
	Llandudno	-	41	35	b	b.bc	4·2
	Aberystwyth	-	40	33	0.c	c.bc	5·0
	Tenby						

	STATIONS.	Rainfall. mm §	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft						
	Felixstowe	4	39	33	or	bc. 0	1·0
	Walton-on-Naze	2	38	35	or.h.c.b	bc.s.or	1·1
	Southend-on-Sea						
England, S.E.	Margate	5	40	31	c	r	0·6
	Ramsgate	2	38	28	c	or	1·2
	Hastings	14	39	33	or.bc	0s	0·8
	Eastbourne	7	40	33	0.p.h.s	0.p.r.s	0.0
	Seaford						
	Brighton	2	35	33	0	0.c.0.s	0·0
	Worthing	22	37	33	0	s	0·1
	Littlehampton	15	39	32	0s. 0	0s. 0	0·0
	Bognor	11	37	32	0	0.bc	0·0
	Southsea	.	38	33	0s	0	0·0
	Bournemouth	9	37	30	s	0.s	0·3
England, S.W.	Weymouth...	2	36	31	ors. c	og	0·0
	Torquay	2	40	32	0.c	bc.b	1·5
	Paignton						
	Penzance						
	Newquay	*	40	36	a.c.bc	bc.c	3·2
	Ilfracombe						
	Weston-super-Mare ...	1	38	30	0.c.bc	or	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature In Screen Max. (24 hours ended 9 A.M. To-Day) °F.	Temperature In Screen Min. °F.	Temperature Min. on Grass °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.) ...	88	84	0·9	38	31	28	0·3	0s.p.	0	0
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	83	86	0·3	39	32	31	-	om.0	0	om
Camden Sq. (Brit. Rainfall)	-	87	0·1	39	30	28	Trace	-	-	*
Hampstead (Reservoir) ...	*	74	0·0	34	28	23	0·3	0.	om	bx.ag
Richmond Park ...	*	*	1·0							
Kew. (See front page.)	*	*	0·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	-	98	0·2							

Vertical Component of Solar Radiation per Square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
355 Joules	9·2 Milliwatts.	33 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain Fall. mm §	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	Temperature Night Min. on Grass °F.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	7	37	33	31	h.s.a.c	c.0s.r	c.0r.s	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	6	39	33	31	a.c.bc.c	ors.de	bc.0	*

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

28th & 29th February 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	6·45 / 6·43	12·4 / 12·5	5·22 / 5·20
Greenwich	6·51 / 6·50	12·13 / 12·13	5·35 / 5·37
Wick	7·14 / 7·12	12·25 / 12·25	5·36 / 5·38
Valencia	7·33 / 7·32	12·34 / 12·34	6·15 / 6·16

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 40° or a little higher in several localities. Snow, sleet or hail fell generally, rain locally, 12 mm. at Dungeness. Dullness ruled, but some western stations had sunshine, up to 6·3 hours at Valencia.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 60. Tuesday, 29th FEBRUARY

	STATIONS.	Yesterday Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	This Morning 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			F.					‡	F.	F.							F.	F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·4	38	NE	3	od	1009·7	0	36	−2		0	.	or	0	2	41	34	o	o	op	*
	Deerness (Orkney)	1008·4	37	NE	7	ru	1008·4	*	36	−2	ENE	3	E	c	4	2	40	35	ou	or	r.o.c	0·0
	Stornoway ...	1009·9	40	ENE	4	c	1008·4	0	38	+1	ENE	4	.	o	4	3	43	36	bc	bc.c	bc.ofq	2·0
	Castlebay (Barra Isd.)	1008·2	41	NNE	3	bc	1006·2	0	39	0	N	2	.	og	2	1	43	37	bc.o	o.bc	bc.og	2.5
	Glasgow ...	1004.6	35	NE	2	og	1002.7	−1	35	−1	NE	3	.	c	*	1	39	32	o	or.sp	csp b.o	0·0
	Eskdalemuir ...	1003.1	32	NE	4	c	1000·4	−1	32	0	NE	5	.	o	*	2	35	31	os.ors	osh.or	b.bc.c	0.0
	Malin Head ...	1004.6	40	E	6	cmq	1002.0	0	38	−1	E	7	E	bq	5	2	40	35	cmq	cmq	bq	1·4
	Blacksod Point	1004.1	39	NE	4	cz	1002.0	−2	37	+6	NNW	5	N	or	4	3	42	31	b bz	bcz	cp.omd	*
	Valencia ...	1000·3	41	N	4	c	1000·8	0	36	+4	N	4	.	or	3	0·3	41	31	c.b	c	bc.cor	5.7
	Roche's Point	1000·4	36	N	2	o	1000·5	*	34	+2	N	2	.	b	2	1	38	32	om	om	c.b	*
	Birr Castle ...	1000·9	36	NE	1	r	999.8	*	31	+2	WNW	2	.	c	*	3	38	28	os.o	or	opr.cx	0·0
	Donaghadee ...	1002·6	39	ENE	5	omgq	1000·0	−1	38	0	NE	5	NE	cgmq	4	1	40	36	cgmrq	ompq	cmqp	*
	Liverpool (Bidston)	999.3	39	ENE	2	o	993·1	−6	32	0	NNE	3	.	s	3	5	39	31	cm	om	os	0.5
	Holyhead ...	999.3	40	ENE	5	om	995·3	−3	39	+3	NE	6	NE	oqm	6	1	42	35	o.c.bcm	bc.ps.o	c.op.c.o	7.0
	Pembroke (St. Ann's)	997.6	38	NNE	1	cm	993·9	−2	38	−1	N	8	N	c	3	.	42	34	c	c	c	0·3
	Scilly (St. Mary's)	995·5	37	WNW	1	o	993.8	−2	40	0	N	3	N	om	4	18	45	36	c.omsr	omsr	ompsl	0·6
	Falmouth ...	994·9	40	NNE	1	cz	993.6	−1	33	+1	NW	1	.	b	*	.	47	29	c.bc.b	b.bc.cp	bx	5·4
	Jersey (St. Aubin)	990·8	37	N	2	ogr	993·7	*	34	−6	WNW	2	.	om	2	22	41	32	op.ors	sr	or.og.o	0.0
	Portland Bill ...	993.3	35	NE	5	or	990·6	+1	37	+1	WNW	4	NW	c	4	5	41	33	c.or	c.or	c.osr	*
	Dungeness ...	995·7	39	E	4	r	993.3	+1	41	+7	SW	5	SW	c	4	10	45	33	bc.c.o	or	c.o.c	*
	Dover	997.2	39	ESE	5	r	995·3	+3	41	+6	S	5	S	b	6	12	43	34	b.bcz.o	omr	r.o.bc.b	0.3
	Wick	1007·9	38	ENE	4	r	1008·0	0	38	−2	ENE	3	E	c	5	3	40	36	omgp	omgr	op.c	*
	Nairn	1007·1	36	ENE	4	odg	1006.6	*	36	0	E	4	.	ou	3	11	39	33	ph.cmq	qrs.d.c	qprs.o	0·0
	Aberdeen ...	1005·7	35	NNE	4	r	1005·4	0	38	−1	ENE	4	.	bc	4	7	39	34	opq	orsq	oph.bc	0·0
	Leith	1003.2	36	NE	4	o	1002·1	0	38	−1	NE	2	NE	c	5	2	40	35	pg.or	rs.c.o	og.c.o.c	*
	Tynemouth ...	1001·0	38	NE	3	omp	998·7	−4	39	+1	ENE	5	.	omp	5	4	39	37	omqp	cm	omp	*
	Spurn Head ...	999.4	37	S	1	c	992.8	−2	39	+3	S	5	.	or	5	3	40	33	o.bc	bc	or	2·2
	Yarmouth ..	999.2	39	SE	2	o	994·3	0	41	+9	S	3	.	bc	3	7	41	31	bcm	bcm.o	or.bc	3·9
	Clacton-on-Sea	998·7	37	ESE	4	r	993·8	0	41	+6	SSE	5	S	c	4	8	41	34	og.c	c.ogr	ogr.o.c	2.1
	Nottingham ...	999.1	34	E	2	o	990·7	*	37	+2	E	3	E	o	*	5	37	33	ogm	om	or	0·0
	Benson (Oxon.) ...	997.2	35	E	1	S	989.8	+3	34	+7	S	4	.	o	*	7	? 41	27	b	of	s	*
	Sth Farnborough	996.1	33	ENE	2	s	991·3	+3	35	+7	S	4	.	o	*	8	40	28	om	m.ors	m sr.o	0.1
	London (Kew Obsy.)	997.0	34	ENE	3	osrm	992·4	+5	37	+5	S	4	.	o	*	9	40	32	bm.om	omd.r.srm	osrm.o	0·3
NORTHERN EUROPE.	Spitsbergen ...	1019.3	−22	SE	2	bc	1010·4	−3	−17	+10	SE	2	*	b	*	*	−17	−33				
	Vardo	1013.2	+21	SW	6	o	1003.8	−7	+23	+2	S	5	.	o	4	*	+23	+18				
	Bodö	1013.0	28	E	4	c	1004.6	−3	30	+7	E	2	.	c	2	.	30	19				
	Christiansund	1011·3	34	NE	2	b	1009.7	−1	36	+4	SW	2	.	c	3	.	37	28				
	Skudesnaes ..	1011.3	39	E	4	c	1009·1	0	36	−4	NE	2	.	o	1	.	39	27				
	Færder (Christiania Fjord)	1011·9	19	NE	4	s	1012·2	0	30	+2	NNE	3	.	o	1	?	30	19				
	The Scaw (Skagen)	1008·8	32	ESE	3	s	1011·7	0	34	+2	SE	2	.	m	2	2	34	32				
	Blaavands Huk	1006·9	34	SE	1	f	1006·4	−1	34	+2	ESE	3	.	o	3	.	36	30				
	Haparanda ...	1021·2	19	SSW	2	o	1013.1	−3	21	+3	SW	4	.	o	*	Trace	21	18				
	Hernösand ...	1021·2	21	N	2	o	1014.1	−3	25	+7	.	0	.	s	*	Trace	25	18				
	Stockholm ...	1017.0	28	E	1	o	1012.8	0	32	+2	S	2	.	o	*	1	32	28				
	Wisby	1014·0	34	SSE	2	o	1014.4	+2	34	+2	SW	2	.	o	*	1	36	30				
	Karlstad	1014·3	28	ENE	4	s	1012·8	0	28	−2	.	0	.	o	*	4	30	25				
FRANCE, &c.	The Helder ...	1003·1	36	SE	2	o	999.3	0	37	+5	SE	2	S	b	1	2	39	32				
	C. Gris Nez ...	997.7	37	E	2	r	995·0	+2	40	+2	SSW	5	*	bc	4	9	40	36				
	La Hêve	993.0	37	SE	4	r	994·3	*	37	+2	S	4	*	c	3	4	37	35				
	Brest (St. Mathieu)	995·0	39	NNE	4	o	994·3	−1	36	−4	NE	2	*	c	2	2	43	34				
	Rochefort (Ile d'Aix)	997·0	48	ESE	4	c	990·4	−4	44	+1	ESE	4	*	r	*	9	54	41				
	Biarritz	997·7	55	SSE	3	b	989.7	−1	50	−3	SSW	5	*	bc	3	.	59	50				
	Paris	998·1	45	SSE	3	o	996.0	−2	41	+7	SE	2	.	o	*	2	52	34				
	Belfort	1005·5	41	E	4	o	1004.8	*	37	+3	E	5	*	c	*	.	42	34				
	Lyons	1005·3	46	SSW	2	o	999.6	*	42	+3	E	1	*	o	*	.	49	39				
	Nice	1012.6	45	E	2	o	1006·3	−3	48	+10	E	5	*	o	5	1	50	37				
	Perpignan ..	1002.4	52	S	3	bc	996·3	−6	52	+16	S	3	S	o	*	Trace	59	36				
	Sanguinaire ...	*					*	*								.						
SOUTHERN EUROPE	Corunna (7 a.m.)	993.2	50	NE	5	o	996·3	+5	41	−4	SSW	1	.	o	3	21	54	41				
	Madrid (8 a.m.)	1001·0	45	S	4	o	997·1	−3	37	−2	SE	2	.	r	*	6	46	34				
	Lisbon (9 a.m.)																					
	Gibraltar	1002.4	54	SW	6	c	1001·0	*	56	+3	W	8	*	c	6	45	60	49				
	Malta (8 a.m.) ...	*	*	*	*	*	1011·0	+2	57	+3	ESE	3	.	o	2	11	63	52				
	Azores (Horta, 3 a.m.)	1017.5	*	NNW	4	o	1017·1	0	54	+1	WNW	2	*	o	2	.	57	52				
	Madeira (Funchal)	1007·1	61	NW	5	o	1012.2	+1	52	−3	NW	3	N	bc	3	.	63	52				
YESTERDAY'S REPORTS				27th ... 8 P.M. G.M.T.							28th Feb. ... 7 A.M. G.M.T.											
ITALY.	Venice	1012·1	42	N	2	o	1015·7	0	36	−5	N	3	*	f	2	1	*	*				
	Turin	1012·9	37	.	0	o	1016·2	0	34	0	.	0	*	o	*		*	*				
	Florence	1011·1	42	WNW	2	o	1014.7	0	39	−4	.	0	*	b	*	5	*	*				
	Pesaro	1010·7	46	.	0	b	1016·2	0	43	−2	W	2	*	o	2	.	*	*				
	Leghorn	.	.	.	.	.	1014.6	0	41	−4	.	0	*	c	3	4	*	*				
	Rome	1012.2	48	.	0	o	1015·4	0	46	−2	.	0	*	bc	*	Trace	*	*				
	Brindisi	1015.3	50	WNW	2	b	1016·0	0	48	+2	NW	2	*	b	1	.	*	*				
	Cagliari	1013.5	57	NW	6	b	1016·2	0	52	−2	NW	4	*	bc	2	3	*	*				
	Palermo	1015·1	55	SSW	2	b	1016.6	0	52	+2	.	0	*	o	1	.	*	*				

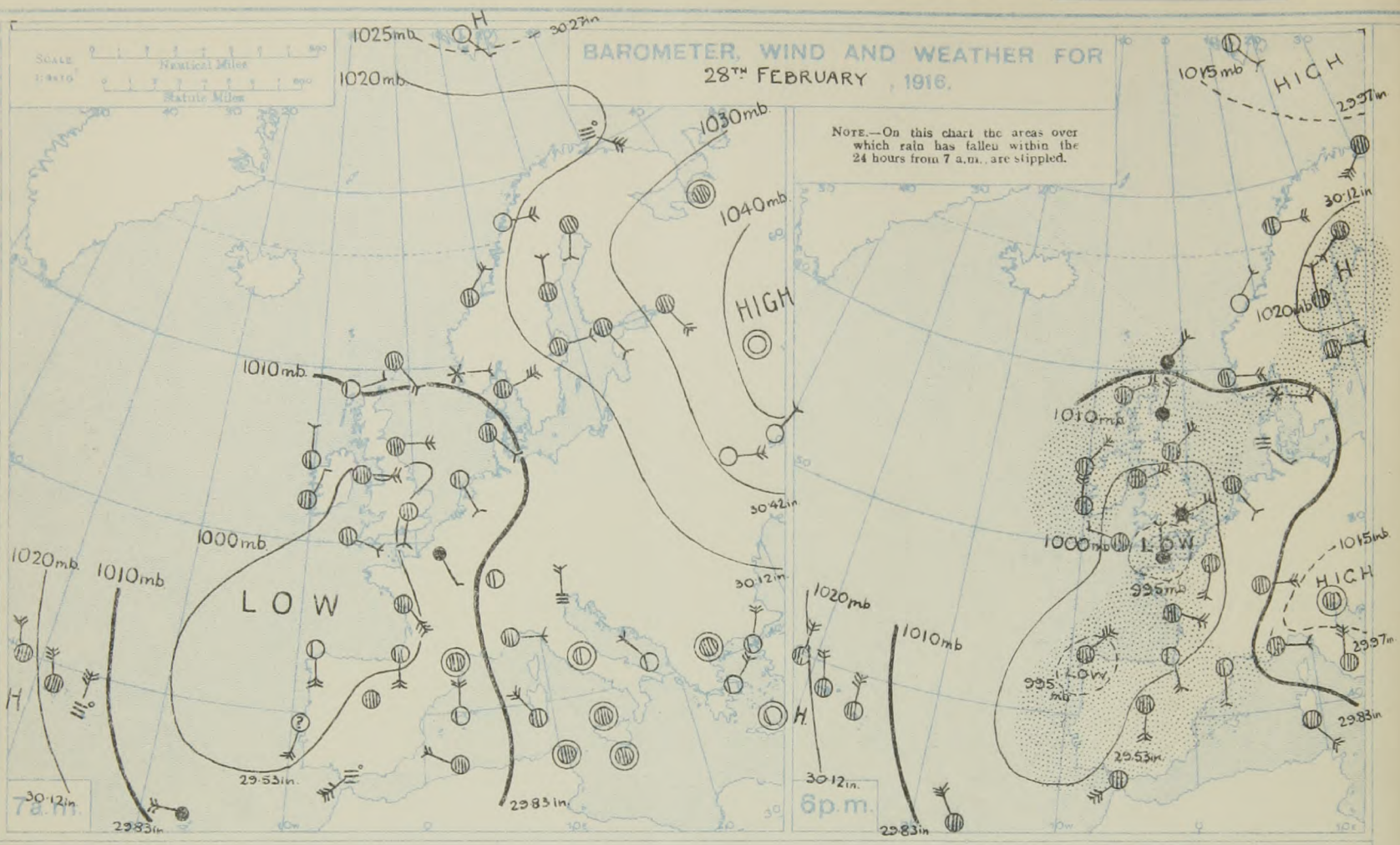
UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.11 a.m.

Wind at 500 m. SbyW 40 mph.

RAINFALL
Equivalents of Millimetres in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 a, 0 b, 1, 2 a, 2 b — North-Easterly and Northerly winds, moderate to fresh or strong; much cloud, rain or sleet at times; rather low temperature.

3, 4 a, 4 b, 5 — Wind variable, mainly between South and West, light to fresh; changeable, showery, rain or sleet; rather cold air.

6 a, 6 b, 7 a, 7 b — Same as Nos. 0 to 2.

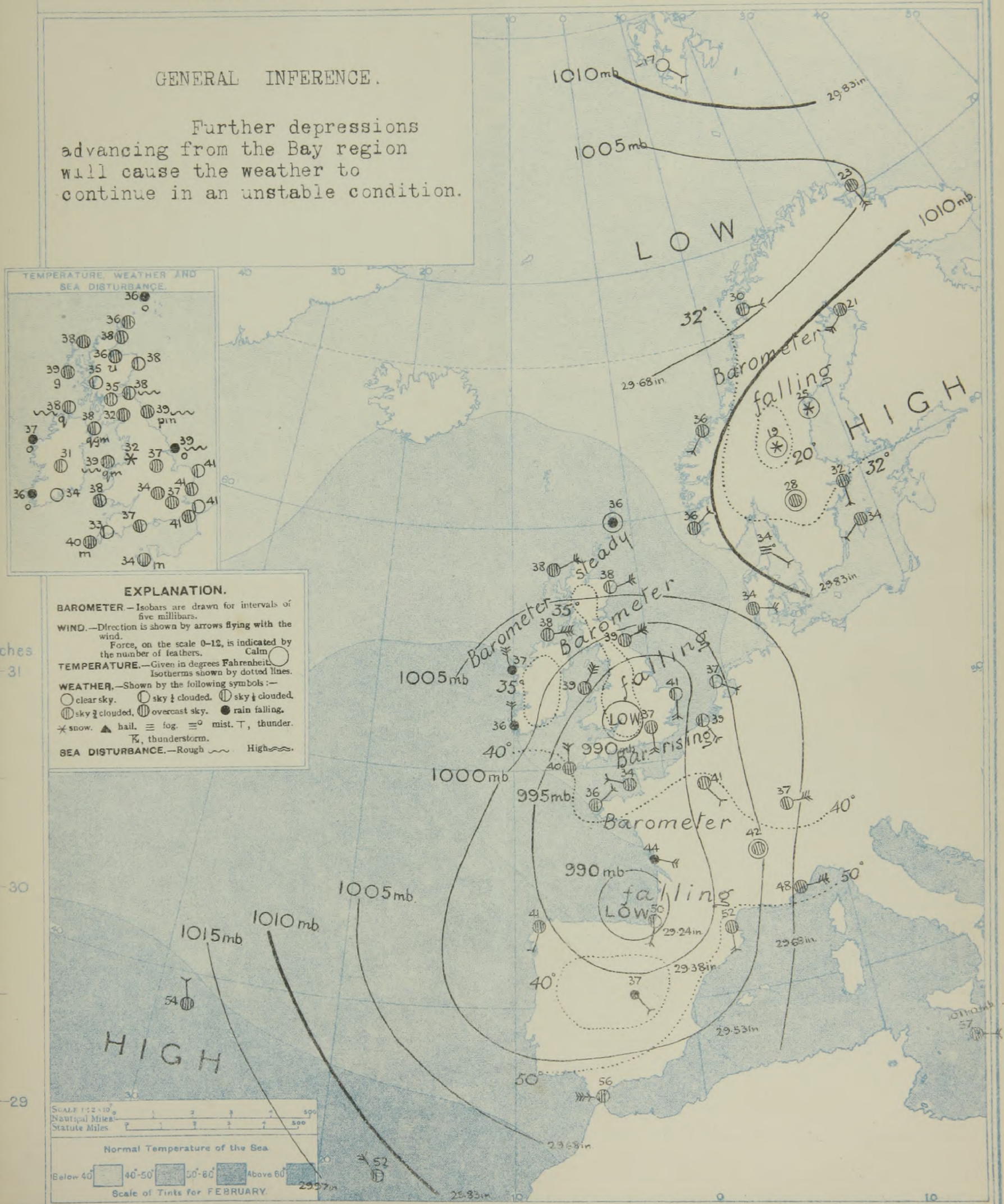
8 a, 8 b, 9 a, 9 b, 10 a, 10 b — Northerly and North-Easterly winds, light to fresh; much cloud, rain or sleet; cold.

Western Channel and Bay 11 — North-Easterly and Northerly winds, light to fresh; sea moderate or rather rough; some rain or sleet.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 29TH FEBRUARY, 1916.



Issue No. 19,822

DAILY WEATHER REPORT.

Tuesday, 29th February, 1916.

REPORTS FROM RUSSIA FOR YESTERDAY.

STATIONS.	27th at 9 P.M. Local Time: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	28th at 7 A.M. Local Time: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. F.	Wind Direc.	Wind Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Archangel	1035·7	7	W	4	3c	1033·7	-2	14	+11	–	0	*	0	?	–	*	3
Uleaborg	1030·4	16	?	?	0	1027·0	-1	18	+2	SSE	2	*	0	*	–	*	*
Helsingfors ...	1028·2	27	SE	2	0	1026·9	0	25	0	SE	2	*	0	0	–	*	*
Hangö	1026·6	27	–	0	0	1025·2	-1	27	0	SSE	2	*	0	0	–	*	*
Riga	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	*
Petrograd	1031·7	25	SE	4	3	1031·1	0	19	-4	SSE	4	–	0	*	–	25	18
Moscow	1039·3	12	–	0	3	1041·3	0	9	+6	–	0	*	3	*	–	*	-1
Kiev	1028·4	25	SE	4	3	1031·1	+2	16	-11	ESE	4	*	3	*	–	*	14
Kharkov	1036·0	16	E	3	3	1037·3	0	5	-4	ENE	2	*	3	*	–	*	*
Kishinev	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Elisabetgrad ...	.	.	.	.	.	.	.	.	.	.	.	*	.	*	.	*	.
Nicolaiev	.	.	.	.	.	.	*	.	.	.	.	*	.	.	.	*	.
Odessa	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	*	.

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

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	42	33	or	0	0·1
	Banff	6	39	34	ors	ors.r	0·0
	St. Andrews	1	40	34	*	*	0·0
Eng. N.E.	Harrogate	9	36	31	o.c	c.bc.c.	1·0
	Skegness	2	38	34	o.c	c.o	0·4
Eng. N.W.	Morecambe	–	39	33	c.bc	bc.c.	2·2
	Blackpool						
	Southport	2	41	30	o.c.o	c.o.	1·7
Midlands.	Buxton	1	33	28	c.o	c.o	0·0
	Leamington Spa	0·1	36	28	f	gm	0·0
	Malvern	2	38	31	o.c	c.o.	1·0
	Ross-on-Wye	0·3	38	29	oms	om.c.	1·3
Wales.	Rhyl	–	39	27	c	c	1·2
	Colwyn Bay	–	39	36	bc	o	3·4
	Llandudno	2	40	32	b	b.bc.	5·5
	Aberystwyth	–	41	34	o.c.o	c.o	0·0
	Tenby	–	42	30	bc	bc.c.	0·0

	STATIONS.	Rainfall.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	3	42	30	c.bc	bc.c.	3·0
	Felixstowe	1	41	32	om.bc	bc.or	3·0
	Walton-on-Naze	2	40	32	bcg.bc	c.c.or	2·1
	Southend-on-Sea	3	40	32	bcg.o	or	0·8
England, S.E.	Margate	12	44	29	bc	or	0·9
	Ramsgate	7	38	29	bcg	or	1·8
	Hastings	8	40	31	o	or	0·0
	Eastbourne	7	43	32	c	or	0·0
	Seaford	12	41	33	r.o	r	0·0
	Brighton	6	37	30	o	osr	0·0
	Worthing	3	38	28	o	o.os	0·0
	Littlehampton	4	39	32	o	os	0·0
	Bognor	6	39	30	o	ors	0·0
	Southsea	2	38	31	or	os	0·0
	Bournemouth	1	37	28	s	os	0·0
England, S.W.	Weymouth	2	37	29	g.bc	c	0·5
	Torquay	2	42	30	b.op	op	1·4
	Paignton						
	Penzance	.	48	32	bc	c.o	4·4
	Newquay	*	44	31	c.c.bc	c.bc	2·6
	Ilfracombe	–	43	31	c.bc	bc.c	4·0
	Weston-super-Mare ...	1	41	29	bc.c	c.o.	0·2

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday.	Humidity 9 a.m. To-day.	Sunshine for Yesterday.	Temperature In Screen Max. (24 hours ended 9 A.M. To-Day)	Temperature In Screen Min.	Temperature Min. on Grass.	Rainfall.	Weather Forenoon.	Weather Afternoon.	Weather Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	89	91	0·1	42	32	31	9	o	ors	ors.o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	78	0·0	42	35	32	10	om	osm	osm.om
Camden Sq. (Brit. Rainfall)	86	81	0·0	40	33	31	11	om	og.oc	*
Hampstead (Reservoir) ...	*	81	0·1	38	30	27	9	o	os.	osx.oc
Richmond Park ...	*	*	0·2							
Kew. (See front page.)	*	*	0·3							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	82	81	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
344 Joules	8·9 Milliwatts.	29 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rain fall.	Temperature In Screen Max.	Temperature In Screen Min.	Temperature Night Min. on Grass.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	.	37	27	21	*	0	0	0·0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	1	41	29	23	bc	bc	bcph	1·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	42	32	27	oc	bm.o	orors	*

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

29th Feb. and 1st March 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	6.43 / 6.43	12.6 / 12.6	5.28 / 5.29
Greenwich	6.50 / 6.49	12.13 / 12.13	5.37 / 5.37
Wick	7.12 / 7.11	12.25 / 12.23	5.38 / 5.39
Valencia	7.32 / 7.31	12.34 / 12.34	6.16 / 6.17

NOTES ON YESTERDAY'S WEATHER.

Rain, sleet or snow fell very generally, the largest measurements being 18 mm. at Scilly and 22mm. at Jersey. A few places in the west and south-west of Britain recorded some hours of bright sunshine, but generally there was little. Temperature remained below 40° at 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; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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

‡ The barometric change is expressed in half-millibars.

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

FEBRUARY, 1916.

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

ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING. Baron. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
1.	Haparanda	1015·4	36	S	2	o	1017·7	+4	37	+18	W	2	–	c	*	–	37	30	.	.	.	.
	Hernösand	1026·9	30	–	o	b	1026·7	o	19	+1	N	2	–	b	*	–	30	12	.	.	.	.
	Stockholm	1033·6	34	WSW	4	o	1032·0	o	37	+1	WSW	4	–	o	*	–	37	34	.	.	.	.
	Visby	1037·2	36	WNW	2	o	1035·8	o	36	o	WSW	2	–	o	*	–	36	34	.	.	.	.
	Karlstad	1036·2	34	WSW	4	c	1034·0	-1	37	+1	–	o	–	o	*	–	37	34	.	.	.	.
	Sanguinaire	*	59	N	3	c	*	*	48	-12	E	2	*	b	1	–	62	46	.	.	.	.
	Lisbon	1025·5	54	N	2	b	1027·0	o	45	+4	N	3	–	b	5	–	55	41	.	.	.	.
	Malta	*	*	*	*	*	1023·9	o	54	+2	NE	4	–	r	4	14	55	52	.	.	.	.
2	Funchal	1022·6	64	E	2	o	1028·0	o	55	-2	E	2	–	o	2	–	66	55	.	.	.	.
3	Sanguinaire	*	55	N	3	m	*	*	50	o	E	2	*	b	2	–	61	46	.	.	.	.
	Lisbon	1025·6	54	SSW	3	c	1021·6	-1	52	+7	ENE	1	–	o	5	2	55	45	.	.	.	.
	Funchal	1027·3	63	NE	1	o	1025·7	-1	55	o	NE	2	–	b	3	–	63	54	.	.	.	.
4	Corunna	1006·4	54	SSW	6	o	994·6	-3	48	-2	WSW	4	–	r	5	17	55	46	.	.	.	.
5.	Corunna	997·5	45	NW	6	o	1008·9	+11	50	+2	N	6	–	r	7	6	50	46	.	.	.	.
	Lisbon	1006·7	50	WNW	5	bc	1019·9	+6	48	-9	WNW	2	–	c	3	2	73	46	.	.	.	.
	Horta	.	.	.	.	.	1024·7	o	58	-1	WSW	5	*	o	3	–	64	57	.	.	.	.
6.	Nice	1014·0	50	–	o	o	1017·9	*	37	-12	–	o	*	b	4	2	50	37	.	.	.	.
	Cagliari	1012·3	54	SE	5	c	1004·3	*	52	+4	SE	4	*	c	6	–	*	*	.	.	.	.
7.	Lisbon	1031·1	57	NW	3	b	1031·7	-2	50	+2	NNW	1	–	o	6	–	59	48	.	.	.	.
	Horta	1031·8	59	–	o	r	1032·0	o	59	-1	–	o	*	o	1	14	61	57	.	.	.	.
	Palermo	1013·5	54	–	o	o	1015·4	*	48	+2	–	o	*	bc	*	4	*	*	.	.	.	.
8	Spitzbergen	1015·3	-15	S	2	b	1003·5	+4	-2	+13	S	2	*	o	*	*	+2	-24	.	.	.	.
	Vardö	997·9	30	SE	5	s	980·7	+7	25	-5	ENE	5	–	o	4	*	30	18	.	.	.	.
	Bodö	979·5	37	SW	4	m	983·7	o	36	o	E	2	–	c	2	–	37	32	.	.	.	.
	Christiansund	984·0	39	SW	1	o	983·8	+1	26	-5	SW	1	–	c	4	3	43	36	.	.	.	.
	Skudesnæs	990·4	36	WSW	4	r	990·4	-1	37	-14	W	4	–	c	4	6	41	34	.	.	.	.
	Færder	991·1	37	WSW	6	o	991·8	+1	37	-2	SW	7	–	bc	4	–	39	36	.	.	.	.
	Haparanda	982·6	28	W	4	o	987·0	+4	18	-14	SW	2	–	o	*	5	32	18	.	.	.	.
	Hernösand	988·3	30	S	2	b	987·7	o	32	-2	S	2	–	c	*	–	39	23	.	.	.	.
	Stockholm	996·4	36	SW	4	b	993·2	o	36	-1	–	o	–	o	*	–	39	34	.	.	.	.
	Visby	1002·0	37	SW	4	b	999·5	o	34	-3	SW	4	–	b	*	2	39	32	.	.	.	.
	Karlstad	994·4	34	SW	2	b	991·8	o	34	-2	SW	2	–	bc	*	–	43	28	.	.	.	.
9	Haparanda	991·3	35	SW	2	s	994·6	+2	21	+3	N	2	–	o	*	8	35	18	.	.	.	.
	Hernösand	989·3	36	–	o	s	993·9	+3	27	-5	–	o	–	o	*	6	34	25	.	.	.	.
	Stockholm	994·7	36	SW	4	o	998·6	+3	34	-2	SSW	4	–	o	*	–	39	34	.	.	.	.
	Wisby	999·8	36	WSW	4	o	1002·1	+3	34	o	SW	2	–	o	*	–	37	52	.	.	.	.
	Karlstad	993·9	36	WSW	4	o	996·8	+3	32	-2	S	2	–	c	*	Trace	39	32	.	.	.	.
	Lisbon	1029·2	52	NNW	5	bc	1028·0	-1	50	o	WNW	3	–	o	6	Trace	55	48	.	.	.	.
10.	Spitsbergen	1024·0	-18	SSE	2	bc	1022·1	o	-22	-14	SSE	1	*	b	*	*	-8	-26	.	.	.	.
	Vardö	1008·7	19	E	5	o	1012·7	+1	16	-5	ENE	5	–	o	3	*	21	16	.	.	.	.
	Bodö	998·1	30	E	4	b	1002·3	+3	28	o	E	2	–	bc	2	–	30	27	.	.	.	.
	Christiansund	997·5	32	SE	1	b	1003·0	+3	28	-4	SE	1	–	b	3	–	37	36	.	.	.	.
	Skudesnæs	993·6	37	SE	4	c	1002·0	+3	37	+1	NE	2	–	c	4	5	37	34	.	.	.	.
	Færder	1002·0	36	WSW	1	o	1006·0	+3	32	-2	NNW	2	–	o	3	1	36	32	.	.	.	.
	Haparanda	995·6	23	N	4	s	1004·7	+3	12	-9	NW	4	–	o	*	1	25	12	.	.	.	.
	Hernösand	1000·6	27	–	o	o	1008·2	+3	5	-22	W	2	–	b	*	–	30	5	.	.	.	.
	Stockholm	1003·9	32	S	2	c	1008·0	+1	32	-2	SSE	2	–	s	*	Trace	37	30	.	.	.	.
	Wisby	1005·6	34	SSW	2	bc	1007·3	+2	32	-2	SSE	4	–	o	*	–	37	30	.	.	.	.
	Karlstad	1002·3	34	S	2	o	1007·0	+3	30	-2	ESE	2	–	c	*	3	36	27	.	.	.	.
	Madrid	1012·7	43	NE	5	r	1021·7	+7	39	+3	NNW	4	–	bc	*	Trace	45	36	.	.	.	.
	Lisbon	1023·8	54	NW	6	o	1026·3	+3	52	+2	NNW	2	–	o	6	1	55	50	.	.	.	.
11.	Funchal	1030·4	64	NE	3	bc	1029·5	o	55	o	ENE	3	–	b	3	–	64	55	.	.	.	.
12.	Corunna	1022·4	52	N	5	o	1032·8	+7	50	-4	NNE	4	–	c	5	3	54	46	.	.	.	.
	Lisbon	1024·4	52	NNW	5	bc	1030·3	+2	46	-6	NNW	3	–	b	6	Trace	57	46	.	.	.	.
14.	Haparanda	1010·3	23	S	2	s	1006·3	-1	27	+15	S	6	–	s	*	5	27	12	.	.	.	.
	Hernösand	1007·3	28	SSE	6	s	1004·6	o	28	+21	S	2	–	c	*	4	30	5	.	.	.	.
	Stockholm	1013·5	32	S	2	o	1010·4	o	32	+9	S	2	–	o	*	1	32	23	.	.	.	.
	Wisby	1017·3	32	SSW	4	b	1013·0	?	34	+4	SW	2	–	m	*	?	34	28	.	.	.	.
	Karlstad.	1008·4	34	SSW	4	o	1008·0	-1	34	+4	SW	2	–	o	*	7	34	27	.	.	.	.
15.	Malin Head	999·5	38	WNW	9	cqhp	993·7	+2	40	+2	W	8	W	bcq	9	6	40	33	qps	cqlph	bqqph	0·2
	Portland Bill	.	.	.	.	.	1003·6	+13	43	-5	WNW	8	W	cq	6	10	48	42	.	.	bcqr	*
	Haparanda	1006·0	30	S	4	o	1005·2	o	21	-6	SSE	4	–	o	*	2	30	21	.	.	.	.
	Hernösand	1003·5	30	S	2	bc	998·7	-1	30	+2	SE	2	–	o	*	–	32	27	.	.	.	.
	Stockholm	1006·7	32	SSE	2	o	992·7	-6	32	o	SE	4	–	s	*	3	34	32	.	.	.	.
	Wisby	1007·1	34	S	2	o	990·6	-7	34	o	ESE	2	–	s	*	3	36	32	.	.	.	.
	Karlstad	1002·9	34	SW	2	o	987·5	-9	32	-2	E	2	–	s	*	3	36	30	.	.	.	.
	Sanguinaire	*	55	W	3	bc	*	*	50	+2	E	3	*	o	5	–	63	46	.	.	.	.
16.	Haparanda	1004·0	12	E	2	c	1001·0	-1	16	-5	E	2	–	s	*	1	27	12	.	.	.	.
	Hernösand	996·2	25	SE	2	o	993·6	-1	19	-11	NNE	4	–	s	*	2	30	19	.	.	.	.
	Stockholm	987·7	30	ESE	4	s	985·3	o	28	-4	N	2	–	o	*	11	32	28	.	.	.	.
	Wisby	988·7	34	SSW	2	o	987·5	o	32	-2	SW	6	–	o	*	12	34	30	.	.	.	.
	Karlstad	985·2	34	E	2	o	987·1	-3	25	-7	–	o	–	c	*	3	36	21	.	.	.	.
	Madrid	1032·9	55	W	1	bc	1034·6	-2	37	o	–	o	–	m	*	–	55	34	.	.	.	.
	Lisbon	1034·9	55	NNW	4	b	1033·5	o	48	o	N	2	–	b	?	–	61	48	.	.	.	.
	Horta	.	.	.	.	.	1035·0	o	54	-2	–	o	*	b	2	1	66	54	.	.	.	.
17.	Spitsbergen	995·8	19	–	o	s	996·2	o	14	-9	SSE	1	*	o	*	*	23	12	.	.	.	.
	Vardö	999·9	16	SW	3	o	999·1	o	18	-5	SW	2	–	o	2	*	23	16	.	.	.	.
	Bodö	987·9	23	E	6	b	988·4	o	19	-8	E	4	–	b	2	–	28	16	.	.	.	.
	Christiansund	977·3	34	E	3	b	979·4	+3	28	-8	SSE	2	–	b	3	–	39	27	.	.	.	.
	Skudesnæs	965·6	36	ENE	4	o	977·5	+3	30	-4	NE	3	–	b	3	–	36	30	.	.	.	.
	Færder	966·9	28	ENE	9	s	976·2	+5	27	-1	N	7	–	s	3	?	30	27	.	.	.	.
	Haparanda	997·2	14	E	2	o	992·3	-2	14	+2	NE	4	–	s	*	1	18	7	.	.	.	.
	Hernösand	986·3	21	NNE	6	s	983·4	o	19	o	N	6	–	s	*	4	21	16	.	.	.	.
	Stockholm	980·7	27	E	2	o	965·2	-5	28	o	ENE	9	–	s	*	8	30	27	.	.	.	.
	Wisby	979·3	32	SW	4	o	961·5	-3	32	o	–	o	–	m	*	7	34	30	.	.	.	.
	Karlstad	975·4	25	NE	6	o	973·5	+4	27	+2	NNW	8	–	o	*	4	27	21	.	.	.	.
	Lisbon	1022·7	55	NNW	4	b	1023·2	+1	52	+4	–	o	–	c	5	–	59	48	.	.	.	.
19	Castlebay	989·3	39	NE	5	oqp	1009·3	+8	38	o	N	2	–	b	3	10	48	36	r	roqp	oqp.o.b	0·0
	The Scaw	999·0	28	E	1	b	1001·9	+2	28	-4	E	3	–	o	3	–	32	27	.	.	.	.
	Blearands Hulk	998·6	36	NE	1	c	999·4	+3	32	-5	ESE	1	–	o	2	1	41	30	.	.	.	.
	Sanguinaire	*	50	NW	7	m	*	*	50	o	NW	5	*	c	6	–	54	45	.	.	.	.
	Madrid	1028·2	59	ENE	1	b	1031·4	-3	41	-9	E	1	–	b	*	–	59	37	.	.	.	.

REPORTS FOR FEBRUARY, 1916.

Date.	Stations.	Yesterday Evening. Barom. Millibars at M.S.L.	Temp.	Wind Direc	Wind Force 0-12	Weather	This Morning 7 a.m., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0-12	Direc. of Upper Cloud.	Weather.	Sea 0-6.	Past 24 hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				
20.	Castlebay	1016·7	43	–	0	b	1019·5	+1	41	+3	–	0	–	ep	2	1	45	36	by	bg.b	b.up.cp	Hours. 7·1
21.	Corunna	1019·7	57	WNW	4	bc	1014·4	-2	50	+2	S	3	–	o	2	–	57	46				
	Lisbon	1016·2	51	NNW	4	b	1013·0	-2	44	-6	NNE	3	–	bc	5	1	55	44				
	Horta						1026·3	+2	55	-5	N	5	*	c	3	1	64	54				
	Funchal	1021·3	61	N	2	o	1017·0	-1	52	-3	NW	1	–	o	1	–	61	52				
	Leghorn	1005·5	54	–	0	b																
22.	Lyons	1017·5	41	ESE	1	o	1014·7	*	44	+14	SSW	1	*	o	*	–	46	30				
	Corunna	1011·9	57	N	4	c	1011·6	+1	48	-2	SSW	1	E	f	1	–	57	46				
	Lisbon	1009·6	55	SSE	2	o	1006·3	-2	50	+6	ENE	3	–	r	2	2	55	44				
	Horta	1024·2	*	N	6	bc	1020·6	+1	54	-1	NNE	7	*	b	4	–	59	54				
	Funchal	1007·5	57	W	4	r	1001·0	-2	57	+5	WNW	4	W	r	3	16	63	50				
	Leghorn	1011·0	52	N	1	b																
23.	Nice	1010·9	39	–	0	o	1006·4	0	39	0	–	0	*	r	4	11	45	37				
	Lisbon	1008·4	54	ESE	4	o	1001·1	+1	54	+4	SE	3	–	o	6	7	60	50				
	Funchal	1002·1	59	WNW	4	r	1003·5	0	54	-3	W	3	W	r	2	4	61	54				
	Turin	1021·2	41	–	0	b																
	Leghorn	1020·2	46	E	2	b																
	Blacksod						1032·2	0	33	-7	ENE	2	–	bc	2	2	45	32			bcp.bc	*
24.	Clacton-on-Sea	1015·0	33	ENE	3	S	1010·7	-3	33	-3	NNE	3	–	s	2	3	36	31	og5	o3	o5	0·7
	The Helder						1013·1	0	28	-6	E	5	–	s	3	7	34	27				
	Sanguinaire	*	54	S	3	m	*	*	51	+1	E	3	*	c	3	–	59	48				
	Madrid	1000·8	46	SW	3	o	1002·7	0	28	-9	–	0	–	s	*	13	48	27				
	Lisbon	999·7	57	SSW	3	bc	997·5	0	52	+2	–	0	–	o	5	8	61	50				
	Leghorn	1012·2	45	E	2	bc																
25.	Haparanda	1024·2	14	–	0	f	1027·1	0	12	-13	S	2	–	f	*	–	27	7				
	Hernösand	1025·3	21	–	0	b	1027·7	+1	19	-11	–	0	–	f	*	–	34	14				
	Stockholm	1024·2	25	S	2	o	1025·1	0	25	+7	E	2	–	o	*	–	27	18				
	Wisby	1023·4	23	SE	2	bc	1023·1	0	25	+6	ENE	2	–	o	*	–	28	19				
	Karlstad	1023·3	23	–	0	b	1024·0	+1	27	+6	–	0	–	o	*	Trace	32	18				
	Leghorn	1008·0	54	S	1	o																
26.	Haparanda	1025·2	23	S	6	s	1024·1	-1	19	+7	SW	4	–	o	*	–	23	12				
	Hernösand	1028·4	25	–	0	o	1026·3	0	16	-3	S	2	–	o	*	Trace	28	18				
	Stockholm	1025·5	21	E	6	o	1023·5	0	12	-13	N	4	–	s	*	–	25	10				
	Wisby	1021·0	23	ENE	4	o	1017·0	-1	25	0	NE	4	–	o	*	Trace	25	21				
	Karlstad	1025·1	25	E	2	o	1023·9	-1	16	-11	ENE	2	–	bc	*	–	28	12				
	Sanguinaire	*	54	NW	4	c	*	*	48	-3	SE	3	*	bc	4	–	59	45				
	Madrid	1010·6	39	WSW	3	bc	1012·3	+1	36	+8	SW	2	–	c	*	Trace	39	28				
	Lisbon	1015·5	48	W	4	b	1014·0	0	53	+8	WSW	4	–	bc	5	2	54	45				
27.	Lisbon	1014·3	49	WNW	3	b	1010·9	-1	54	+1	SSW	1	–	c	5	2	57	48				
	Horta						1024·4	0	53	+1	NW	4	*	o	2	–	61	52				
28.	Spitsbergen	1025·2	-26	ESE	2	b	1025·2	+1	-27	-16	SE	1	*	b	*	*	-11	-33				
	Vardö	1022·4	23	W	3	b	1019·0	-3	21	-2	SE	5	–	m	3	*	23	19				
	Corunna	1001·1	48	SSW	5	r	996·4	+1	45	-1	S	4	–	b	4	11	50	43				
	Madrid	1010·6	45	WSW	2	c	1005·1	0	39	+5	S	1	S	o	*	2	46	34				
	Lisbon	1004·8	50	SW	5	r	997·2	-4	48	-6	SSW	4	–	o	6	10	57	48				
	Funchal	1013·2	59	NW	3	r	1007·9	-3	55	+1	W	4	NW	r	3	2	59	52				
29.	Lisbon	992·6	47	SW	5	o	998·7	+7	50	+2	W	4	–	o	7	16	53	43				

Corrections.

Date.	Stations.	Barom. Millibars at M.S.L.	Temp.	Wind Direc	Wind Force	Weather	Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force	Direc. of Upper Cloud.	Weather.	Sea 0-6.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Morning.	Afternoon.	Night.	Sunshine
1.	Deerness																	37				5·8
	Benson													omw								
2.	Glasgow																				odp.rq	
	Benson															no rain						
	Sanguinaire														3							
3.	Falmouth																43					
	Dover															0·1						
4.	Lerwick																45					
	Roche's Point	974·8										6										
	Benson																					
	Yardö								30	0												
	Gibraltar								55	+8												
5.	Holyhead						1000·1															
6.	Eskdalemuir																	34				4·9
	Scilly													eq				44				
	Falmouth																					
	Portland																	44				
	Tynemouth																	36				
	Palermo	1013·9																				
7.	Turin						1023·3															
8.	Leith						997·7															
9.	Deerness	980·3																				
	Roche's Point																				op.b.op	
	Aberdeen	987·9																				
	Nottingham										SW											
	Benson					o					SW	2					42	26				
	Brindisi	1018·3	48																			
10.	Nairn																		d.bcgd.			
	Benson													o			40	27				
11.	Dungeness																	?32				
	Lisbon														2							
	Leghorn								39	-9												
	Rome	1001·1																				
12.	Scilly						1023·2															
	Aberdeen															0·4						
	Benson										NW	3						34				
13.	Glasgow																				n.crsp	
	Dungeness																47	38				
	Dover								46													
	Benson					bc					WSW	3		o		0·4	47					
	Belfort								38	-1		4		m								

CORRECTIONS.

Date.	Stations.	Yesterday Evening. Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather.	This Morning 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Fast 24 Hours. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
14	Lerwick						995·3															
	Deerness															1						
	Valencia	1014·4																				
	Pembroke			WSW																		
	Dover								149	+5												
	South Farnborough																	43				
	Florence						1022·0															
15	Falmouth															111					ad.mg.o	
16	Valencia																				o.cp	
	Roche's Point										W											
	Nairn								23	+1												
	Clacton	1004·2																				
	Benson										WSW											
	South Farnborough																			be.od	r.or.o	
17	Pembroke																48	40				
	Scilly						1012·7															
	Falmouth		39																			
	Dover	999·0																				
	Clacton																	37				
18	Glasgow		37																			
	Blackwards Huk														2							
	Karlstad					o																
	Lyons								37	-2		2		r								
19	Blacksod Point	998·0																				
	Holyhead																					0·1
	Dungeness															4						
	Aberdeen	993·7																				
	Spurn Head															4		37				
	Faerder														2							
	Cagliari	1017·9	52																			
20	Holyhead																					5·2
21	Roche's Point													o								
	Falmouth															14						
	Dover						1021·5											33				
	Nairn						1024·2															
22	Malin Head															1						
	Blacksod Point						1031·9									3						
	Holyhead																					4·5
	Pesaro						1020·0															
23	Stornoway		36																			
	Glasgow	1031·0																				
	Holyhead																					6·8
	South Farnborough								33	+1												
	Bedö													c		nonsin						
24	Castlebay																					8·6
	Dungeness						1009·1															
	Perpignan						1005·5				SW											
25	Holyhead	1013·2																				
	Scilly					om														omgs		
	South Farnborough					bm																
26	South Farnborough															16						
27	Malin Head					cq																
28	Dungeness										NW											
	Yarmouth																					0·0
	South Farnborough					om								om								
29	Malin Head													cq								
	Birr Castle										NNW											
	Falmouth																					5·3

LONDON OBSERVATIONS.

	Stations.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 a.m. To-Day.)	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
1	Westminster			0·0							
2	Camden Square						27				
	Richmond Park			0·0							
3	Greenwich					40					
8	Richmond Park			5·2							
9	Richmond Park			2·9							
10	Richmond Park			6·7							
11	Richmond Park			5·9							
14	Westminster			3·9							
17	Greenwich					37					
	City			4·7							
	Camden Square			5·5							
19	Richmond Park			0·0							
22	Richmond Park			0·0							
23	Richmond Park			2·8							

GALES

Duration and Extreme Force in British Islands

Date.	Additions.	Date.	Corrections.
		7	Glasgow 7th 2a.m 3q.gusts WSW 8
		15	Malin Head 14th 7a.m - 15th 7a.m W 8 Ex. WNW 9 at 1p.m & 6p.m. Blacksod Point 14th 11p.m - 15th 7a.m SW 8 Ex. WNW 9 at 1p.m. Portland Bill 14th Midn. - 15th 7a.m SW 8 Ex. W 10 at 4a.m. Dungeness 15th 4a.m - 7a.m S 8 Ex. S 9 at 4a.m.
		17	Eskdalemuir 16th 7a.m - 10a.m WSW 8 Gust 34 m.p.s.