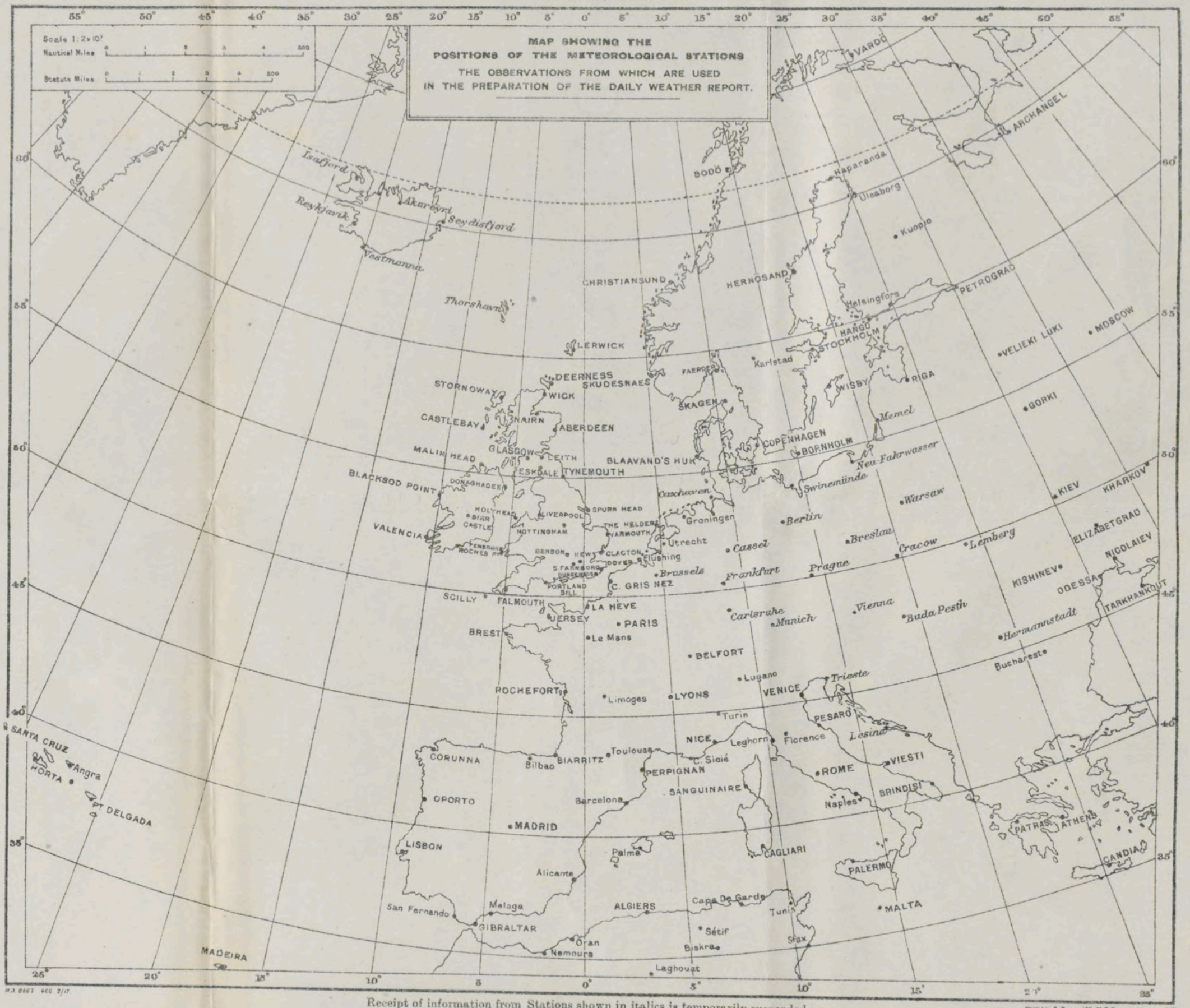
M.O. Form 2610.

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. 1.

Saturday, 1st January

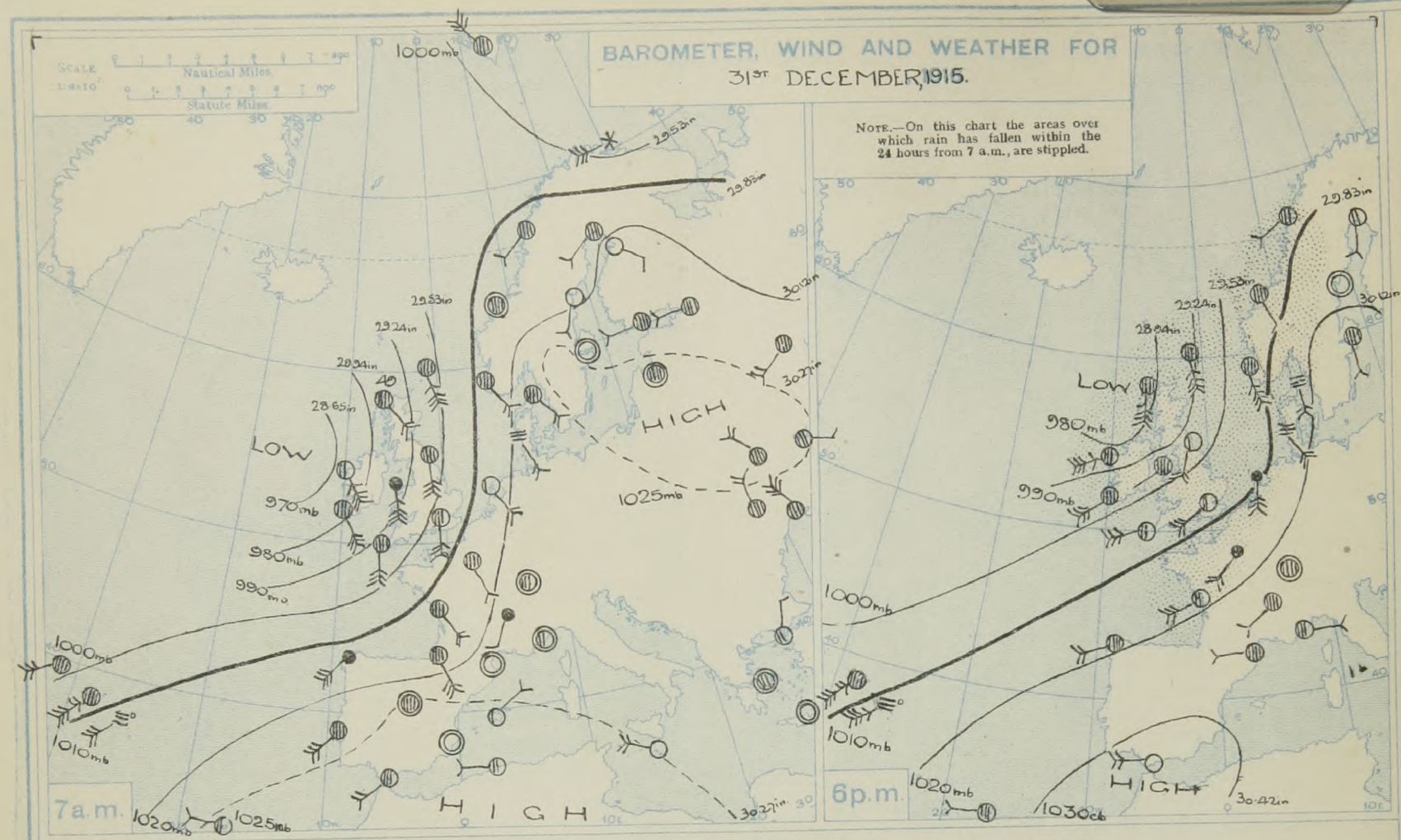
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	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 ...	988.1	45	SSE	8	omq	986.2	0	45	0	S	4	-	c	4	1	46	44	omdq	omq	bc.c	*
	Deerness (Orkney)	982.4	45	SSE	7	bcq	981.4	*	45	0	SSE	5	-	or	6	1	46	44	oqd	od.c.bc	bc.c.or	0.0
	Stornoway ...	976.3	48	S	7	omq	973.9	-8	45	-4	SE	5	-	orq	5	7	50	45	or.oq	oq	ofp orq	1.1
	Castlebay (Barra Isd.)	973.4	47	SE	6	ofp	971.0	-5	50	+1	S	5	-	ofp	6	12	50	44	ofp.bc	bc.ofp	ofp	0.2
	Glasgow ...	983.7	47	SSW	4	b	980.8	-14	48	+2	S	4	-	oq	*	11	51	42	d.oqfp.c	cq.ofp.c	ofp.orq	1.3
	Eskdalemuir ...	987.7	44	SSE	7	or	985.2	-12	49	+2	S	8	-	or	*	29	49	40	or	oq.or	or.oc	0.0
	Malin Head ...	976.7	46	SW	6	cq	970.8	-9	51	+5	S	6	-	oqfp	6	2	51	42	bcqfp	cq	cqfp	1.1
	Blacksod Point	981.0	48	WSW	8	c	968.6	-8	51	+5	WSW	9	W	omqr	7	11	53	30	cqfp	omdfp	omqfp	*
	Valencia ...	991.2	50	SW	6	o	975.6	-6	51	+3	SSW	8	-	ofp	*	17	55	44	ofpq	o.c	or.ofp	0.4
	Roche's Point	994.8	50	WSW	3	bc	983.8	*	53	+3	SW	7	-	o	6	14	53	47	r.o	ofp.c.bc	or	*
	Birr Castle ...	986.3	49	SW	6	c	978.4	*	48	+2	SW	5	-	r	*	13	55	43	cfpq	cfpq	qprb	0.0
	Donaghadee ...	982.7	47	SSW	7	cqmqfp	976.7	-8	51	+1	S	5	-	omrq	4	11	51	43	cqqm	cqmp	omrq	*
	Liverpool (Bidston)	993.6	49	SSW	4	o	990.6	-7	50	-1	SE	3	SE	or	3	3	53	44	ofp.c	oq	or	2.6
	Holyhead ...	990.7	?	SW	?	oqgm	985.2	-11	52	+1	S	8	-	odqm	7	13	52	46	or.cfpq	cfp.o.cq	c.bc.or	0.0
	Pembroke (St. Ann's)	996.5	50	WSW	8	cqfp	989.5	-5	51	+4	SSW	8	-	oqfpd	7	7	52	48	cqfp	cqfp	oqfpdm	0.0
	Scilly (St. Mary's)	1001.7	51	WSW	6	bcmq	995.2	-4	54	+6	SSW	7	-	omqd	7	3	54	46	omqfp	fpq.bcm	om.oqd	0.6
	Falmouth ...	1003.4	50	SSW	7	b	998.1	-8	54	+8	SSW	8	N	r	*	4	54	45	oq	fp.bc.cq	b.orqd	2.9
	Jersey (St. Aubin)	1007.8	51	SW	4	b	1009.5	*	54	+2	SSW	5	-	o	4	9	54	48	or.b	bc.b	b.ofp	3.6
	Portland Bill ...	1003.9	51	SW	6	b	1003.3	-5	52	+2	SSW	7	-	or	6	14	53	49	or.c.bc	bc	b.bc.or	*
	Dungeness ...	1005.8	49	SSW	5	b	1008.5	-3	50	+2	S	7	-	r	6	10	50	47	bc.ofp	or.bc	bc.c.or	*
	Dover ...	1006.0	46	SSW	6	b	1009.2	-1	50	+2	SW	7	SW	o	6	9	50	45	o.c	cfpr.bc	b.bc.c.o	0.1
	Wick ...	983.1	45	SE	5	b	981.4	-7	46	+1	SE	5	-	o	5	0.2	47	45	omqg	oq.bmq	bcmqfp	*
	Nairn ...	980.6	45	SW	1	bc	979.1	*	46	-2	S	4	-	oq	2	-	51	44	q.ou.bc	bc	q.bc	0.2
	Aberdeen ...	986.7	46	SSE	6	ofpq	984.2	-10	45	0	SSE	6	-	r	6	6	48	45	ogrq	c.bc.ofp	c.oqr	0.0
	Leith ...	985.2	49	SW	5	bc	982.3	-6	51	+2	SW	5	-	r	4	5	52	44	odgr	o.cq.o	cq.or	*
	Tynemouth ...	991.3	48	SSW	4	bmq	988.9	-6	47	-1	SSW	6	-	omofp	5	1	50	45	omqfp	bcmq	omqfp	*
	Spurn Head ...	997.9	44	WSW	6	o	996.8	-6	45	+1	SSW	6	-	oq	6	4	45	44	cqfp	c.oq	bcq	0.1
	Yarmouth ...	1003.5	45	SW	7	bc	1005.0	-5	47	+2	SSW	8	-	omr	6	6	48	44	bc	omr.bc	bc.omr	0.0
	Clacton-on-Sea	1005.0	45	SSW	4	b	1007.3	-2	47	+1	SSW	5	-	o	4	3	48	45	c.od	or.c.bc	bc.bor	0.0
	Nottingham ...	998.2	49	SW	4	b	996.2	*	52	+1	S	6	S	o	*	3	54	47	ofp.c	cfp.b	bc.ofp	0.7
	Benson (Oxon.) ...	1002.5	46	SW	4	b	1001.7	-6	52	-	SSW	6	-	o	*	7	52	46				*
	Sth Farnborough	1003.4	49	SW	5	b	1004.9	-3	52	0	SSW	5	-	oq	*	6	52	47	orqtl.o	o.bc.b	b.or	0.1
	London (Kew Obsy.)	1003.8	50	SW	5	bc	1005.1	-4	52	0	SSW	6	-	o	*	4	53	48	c.or	or.bcfp	bc.ofp.o	0.1
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö ...															*						
	Bodö ...	1009.3	30	SW	2	c	1003.7	-3	32	-4	E	4	-	c	2	-	36	28				
	Christiansund	998.0	39	SSE	1	o	998.0	-3	45	+9	SE	6	-	r	4	1	45	34				
	Skudesnaes ..	1004.3	41	SSE	7	o	999.7	-3	41	+4	S	9	-	r	6	2	41	37				
	Færder (X'iania Fjord)	1016.4	27	N	2	f	1010.3	-3	34	+13	SSE	6	-	s	3	?	34	21				
	The Scaw (Skagen)	1016.0	34	S	4	f	1008.4	-3	36	+4	S	5	-	f	5	1	36	32				
	Blaavands Huk	1013.1	37	SSE	4	f	1009.9	0	39	+3	SSW	4	-	o	3	1	39	32				
	Haparanda ...	1014.1	12	SSW	2	bc	1011.2	0	19	+18	SSE	2	-	o	*	-	19	1				
	Hernösand ...	1013.5	5	-	0	b	1011.3	-3	19	+12	-	0	-	o	*	-	32	3				
	Stockholm ...	1023.1	19	S	2	o	1017.2	-2	30	+21	S	4	-	o	*	-	30	9				
	Wisby ...	1023.9	30	SSW	2	o	1019.7	-1	30	+5	SSW	2	-	o	2	-	30	23				
	Karlstad ...	1020.3	14	-	0	o	1014.6	-3	32	+40	-	0	-	o	*	Trace	32	21				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007.4	45	S	5	r	1011.1	0	45	+8	S	6	-	r	4	5	48	45				
	C. Gris Nez ...	1007.5	49	S	7	b	1010.0	-4	49	+2	S	7	*	o	5	4	52	46				
	La Hève ...							*					*									
	Brest (St. Mathieu)	1009.7	52	SW	5	c	1007.3	-4	53	-1	S	8	*	f	8	3	55	50				
	Rochefort (Ile d'Aix)	1017.5	52	WSW	5	bc	1021.3	0	49	+2	S	5	*	o	*	2	54	46				
	Biarritz ...												*									
	Paris ...	1013.3	48	SSW	3	b	1019.9	+2	48	+2	SSW	3	-	o	*	2	54	43				
	Belfort ...	1020.6	45	-	0	o	1026.7	*	41	+1	W	2	*	c	*	?1	50	39				
	Lyons ...	1021.5	47	SW	2	o	1027.3	*	43	+7	WSW	?	*	bc	*	-	48	40				
	Nice ...	1024.6	50	E	2	c	1024.4	0	44	0	E	3	*	c	1	-	54	41				
	Perpignan ...	1022.4	48	W	1	o	1026.4	0	45	+9	W	1	NW	o	*	-	54	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019.0	57	WSW	4	o	1023.8	+6	63	+9	WSW	6	-	o	5	?	63	59				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar ...	1032.2	56	W	4	b	1032.5	*	53	-5	W	4	*	b	2	-	66	52				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1026.0	0	54	-1	WNW	3	-	b	3	-	61	54				
	Azores (Horta, 8 a.m.)	1002.1	*	SSW	9	o							*									
	Madeira (Funchal)	1027.5	64	W	2	c	1029.3	+1	57	-4	?	?	-	b	?	-	64	57				

GALES.

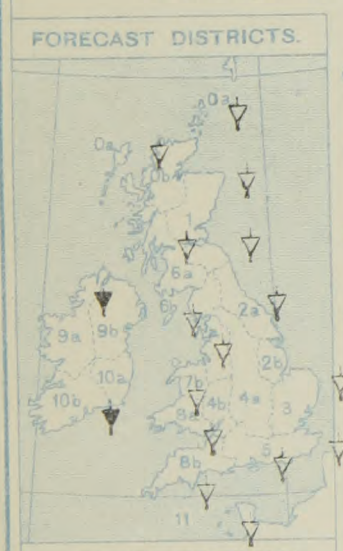
Duration and Extreme Force in British Islands.

Lerwick: 31st. 12h-22.30h SSE. 8.
Deerness: 31st. 10h-15h. SE. 8.
Stornoway: Squalls during night S. 8.
Castlebay: 31st. 7h-8h. ESE. 8
Glasgow: 1st 0h-4h. Ext. squalls S. 8.
Eskdalemuir: 31st. 10.30h. Sust SSW 24 m.p.s 16.30h. " S 26 m.p.s 16h-7h (1st) SSE-SSW. 8.
Blacksod Point: 31st-1st. 7h-7h SSE-WSW 8, Squalls force 10.
Valencia: 1st 7h. SSW 8
Birr Castle: 31st 16h-18h. SW. 8.
Holyhead: 31st 18h & 1st 7h S. 8.
Pembroke: 31st 12h-18h WSW-SSW 8. Ext. SW 9 at 13h. 1st 2h-7h SSW. 8.
Scilly: 31st SW 8. Squalls 9. 1st Squalls SSW 8 at 6h.
Falmouth: 1st. 7h. SSW. 8.
Portland: 31st 8h-12h. SSW. 8.
Wick: 31st 10h-15h SE. 8. Ext. SE 9 at 12h.
Aberdeen: 31st-1st. 13h-7h. Squalls SSE 19-23 m.p.s
Yarmouth: 31st 11h-13h SSW. 8.
Bath: 31st 8h. S. 8.
Kew: 31st 10.5h. Sust. S 22 m.p.s. 1st. 4.50h. Ext SSW. 8.

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.



STORM WARNINGS.

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

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

Warnings Issued in Districts 0–8 & 11 at 8 a.m. and in Districts 9 & 10 at 2 a.m.

0 a, b; 1	Southerly gales; weather dull and rainy; very mild.
2 a, b; 3; 4 a, b; 5; 6 a, b; 7 a, b; 8 a, b	Strong winds and gales from between South and South-West, then veering and decreasing somewhat in force temporarily; weather dull and rainy, improving; mild.
9 a, b; 10 a, b	South-Westerly gales; weather dull and rainy, improving temporarily; mild.
Western Channel and Bay 11	Southerly gales, veering South-Westerly, with some decrease in force; high sea and swell; unsettled, improving temporarily; rather mild.

FURTHER OUTLOOK.

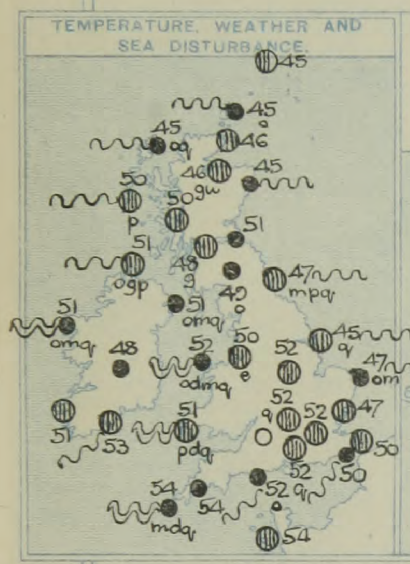
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 1ST JANUARY, 1916.

GENERAL INFERENCE.

The depression which is approaching the North of Ireland is likely to move north-eastward.



EXPLANATION.

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

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

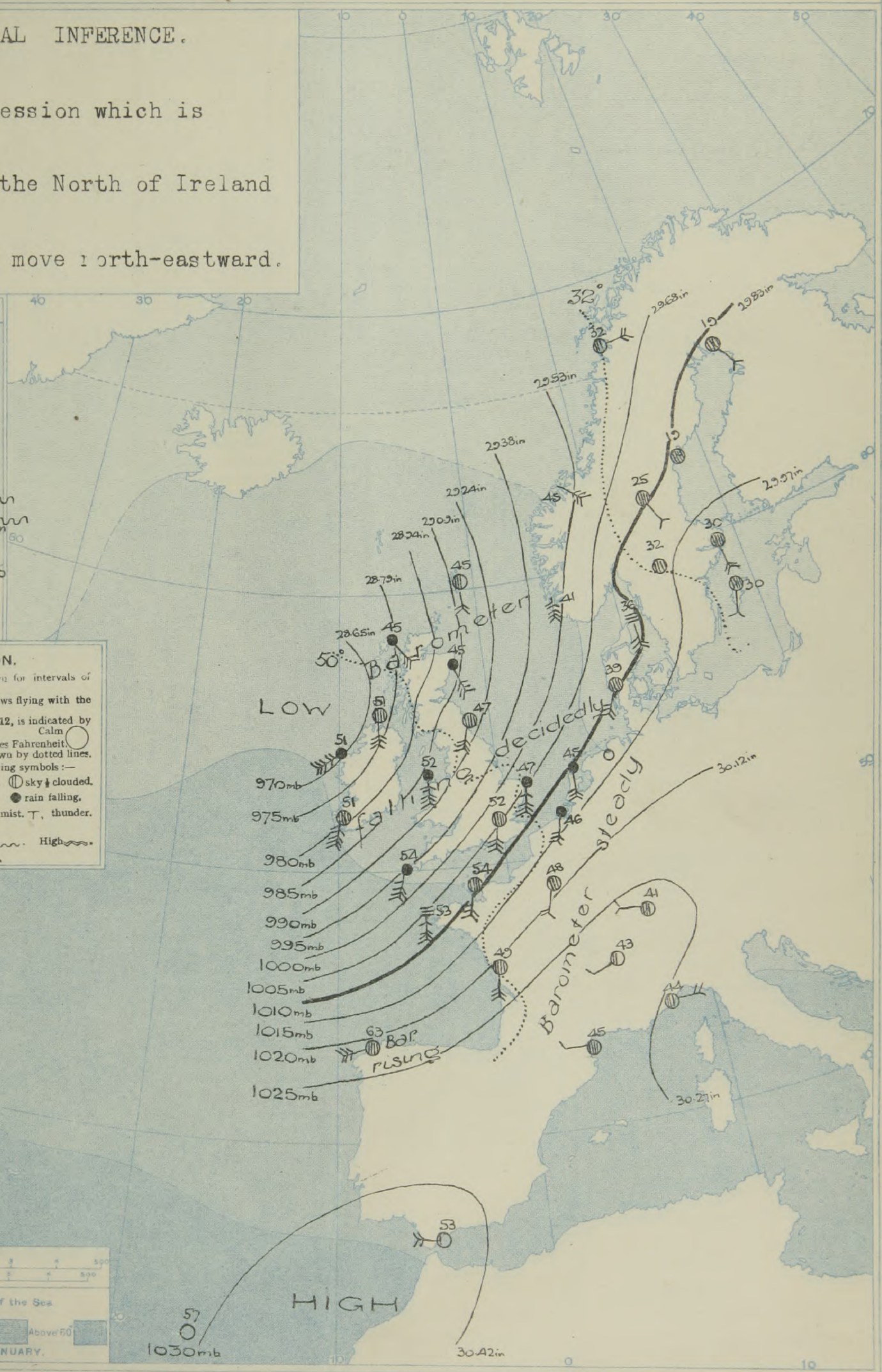
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ∿. High ∿.

Scale 1:2·10⁷
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 JANUARY.



Issue No. 19,763.

DAILY WEATHER REPORT.

Saturday 1st January 1916.

REPORTS FOR YESTERDAY.

31st December, 1915.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Lisbon	1021·3	57	S	4	b	1022·6	0	59	+5	SSW	5	-	0	5	-	61	57
Malta	*	*	*	*	*	1025·0	+3	55	-4	WNW	4	-	b	3	-	66	55

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	53	43	p.	or.o	0·4
	Banff						
	St. Andrews	-	48	41	*	*	0·0
Eng. N.E.	Harrogate	3	50	43	or.c	c.bcq	0·6
	Skegness	2	49	43	o.cp	p.bc.b	0·2
Eng. N.W.	Morecambe	6	55	47	or	bc.o	1·3
	Blackpool						
	Southport	4	52	45	orq.c	orq.c	1·0
Midlands.	Buxton						
	Leamington Spa	3	52	39	cop	bcep	1·2
	Malvern	8	51	46	bc	t or	1·5
	Ross-on-Wye	7	54	45	or.bc	c.or	1·2
Wales.	Rhyl	8	52	45	o.p	o.c	2·4
	Colwyn Bay	9	51	46	p.bc	r	0·0
	Aberystwyth	4	52	45	p.o.c	co	0·2
	Tenby	7	52	45	bc.c	bc.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	4	48	44	or	or.c	0·0
	Felixstowe	3	48	44	bc.or	or.bc	0·0
	Walton-on-Naze						
	Southend-on-Sea	2	49	39	b.bc.or	o.c.bc.b	0·5
England, S.E.	Margate	6	51	45	o	o.or	0·0
	Ramsgate	7	50	45	c.o	r.bc	0·0
	Hastings	5	51	47	cor	or.bc	0·3
	Eastbourne	5	51	47	orq	bq	0·5
	Seaford	6	51	47	or	r.bc	0·8
	Brighton	5	59	48	o.oro	o.oro.cbc	0·2
	Worthing	7	51	47	r	bc	0·5
	Littlehampton	12	51	44	or	bc	0·3
	Bognor	7	52	46	od	od	0·2
	Southsea	7	51	47	or	bc	0·3
	Bournemouth	9	52	47	or	o.c.b	0·4
England, S.W.	Weymouth	9	53	46	or.bc	bc	0·7
	Torquay	7	55	48	o	c.bc.b	1·8
	Paignton						
	Penzance	6	53	47	cp.r	bc.c.b	1·5
	Newquay	*	52	46	c.bc.b	b.bc	0·1
	Ilfracombe	4	56	47	o	o	0·0
	Weston-super-Mare	9	52	46	b.bc.b	bcp.bc	1·0

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.)	89	88	0·0	53	47	42	6	o.or	or.o	o.b.oq
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	92	94	0·1	54	49	42	4	p.bc	bc	bc.u.r
Camden Sq. (Brit. Rainfall)	85	86	0·1	53	47	42	5	o.or	or.bc	*
Hampstead (Reservoir)	*	94	0·0	51	46	37	5	cor.b	or	or
Richmond Park	*	*								
Kew. (See front page.)	*	*	0·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	88	0·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
104 Joules	3·7 Milliwatts.	18 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 "	12	55	47	46	rqr	o.bcp	c	1·0
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	4	53	48	44	o.od.o	o.odo	or.b	*

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

1st & 2nd January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	9·6 / 9·6	11·57 / 11·57	3·48 / 3·48
Greenwich	8·8 / 8·8	12·4 / 12·4	4·0 / 4·0
Wick	9·5 / 9·5	12·16 / 12·16	3·27 / 3·28
Valencia	8·51 / 8·51	12·45 / 12·45	4·38 / 4·39

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 50° in nearly all parts of the country. Rain fell generally, up to 29 mm. at Eskdalemuir. Gales were experienced on all coasts.

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. 2.

Sunday, 2nd January.

	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 2 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 ...	973.8	46	S	4	om	991.9	+8	46	+1	SW	6	–	omq	5	11	46	43	omq	omq	omqp	*
	Deerness (Orkney)	972.2	44	SW	2	o	996.6	*	45	0	W	4	–	b	4	8	47	43	r.o.c	c.or.o	or.c.bc.b	0.0
	Stornoway ...	972.3	48	S	5	oqp	997.8	+3	46	+1	SW	6	–	bcq	5	17	49	42	orq	oqp	op.bcq	0.0
	Castlebay (Barra Isd.)	980.1	49	W	7	b	1000.7	0	49	−1	SW	5	SW	bc	6	2	51	44	op	op.c.b	b.op.bc	0.0
	Glasgow ...	978.2	49	WSW	5	oq	1007.3	+4	43	−5	WSW	4	SW	bc	*	10	53	42	oqp	omqp	qp.b.bc	0.0
	Eskdalemuir ...	979.1	49	WSW	6	or	1010.4	+5	40	−9	SW	4	–	o	*	22	49	37	omr	omr	orq.c.o	0.0
	Malin Head ...	984.9	47	W	9	omqp	1003.5	0	43	−8	SW	5	SW	bcq	6	3	51	42	om	omqr	bcq	0.0
	Blacksod Point	995.4	46	WSW	9	cmqp	1001.3	−6	49	−2	SSW	6	SW	om	7	6	52	40	omqp	cmqp	omp	*
	Valencia ...	1005.6	49	SW	6	b	1002.7	−9	52	+1	SSE	5	–	or	*	8	52	?	od.o/p	o.c.bc.b	bc.or	0.3
	Roche's Point	1006.3	48	WSW	6	b	1008.3	*	50	−3	SSE	4	–	r	5	5	53	47	or.c	cq/p.c.b	b.or	*
	Birr Castle ...	1000.2	46	SW	6	o	1005.9	*	49	+1	S	2	–	r	*	10	51	42	orq	oqp	c.or	0.0
	Donaghadee ...	985.7	48	W	8	omrq	1008.3	+1	43	−8	SSW	4	SW	bcmq	4	7	51	42	omrq	omrq	bcmqp	*
	Liverpool (Bidston)	990.3	50	SW	8	o	1014.2	+1	45	−5	SE	2	–	o	3	4	55	44	orq	c.oq	cq	0.5
	Holyhead ...	993.5	51	W	9	oqp	1011.5	−1	49	−3	SSW	5	–	om	5	3	53	46	omqp	op.cp.o	op.b.oc	0.0
	Pembroke (St. Ann's)	1003.0	50	W	10	bq	1013.3	−3	50	−1	SSW	4	–	omq	6	5	53	48	cq	cq.bcq	bcq	0.0
	Scilly (St. Mary's)	1011.7	51	WSW	6	bcm	1013.5	−4	53	−1	SSW	6	–	omqr	7	4	55	50	cmqp	cmq	omd.rq	0.0
	Falmouth ...	1011.8	51	WSW	8	bq	1015.9	−4	51	−3	SSE	3	–	r	*	3	56	49	d.cq.cq	cq	bcq.or	0.5
	Jersey (St. Aubin)	1014.3	54	WSW	6	o	1021.3	*	50	−4	S	4	–	omd.	4	7	57	49	op.c	c.b	b.omd	0.8
	Portland Bill ...	1007.1	52	WSW	6	bc	1018.7	0	50	−2	SSW	4	–	or	5	8	54	49	cqp	cq	bc.or	*
	Dungeness ...	1006.1	51	SSW	9	bq	1019.5	?+2	48	−2	SW	5	–	og	5	1	53	47	orq	oq.c.b	oq.o	*
	Dover ...	1007.0	51	SW	8	b	?	?+2	48	−2	WSW	4	W	o	4	1	53	46	o.c	c.bc.b	b.bc.c.o	0.0
	Wick ...	971.7	46	SSW	2	r	998.4	+5	42	−4	W	3	–	b	2	5	47	41	cmqp	cmqr	omr.bc	*
	Nairn ...	974.1	46	W	1	o	1001.3	*	44	−2	W	3	–	omdq	2	2	49	42	p.rq.bc	bc.cq	rqq	0.9
	Aberdeen ...	973.7	46	SSW	2	o	1002.9	+7	43	−2	SW	3	–	b	3	4	50	43	orq.bc	bc.op	rq.bc.b	0.8
	Leith ...	977.1	50	SW	5	c	1006.0	+3	44	−7	SW	3	–	b	4	2	54	44	r.oq.c	c.op.o	cq.r.b	*
	Tynemouth ...	978.4	52	SW	5	omqp	1010.5	+7	45	−2	SW	3	–	bm	4	2	54	44	bcqp	cmqp	cmq	*
	Spurn Head ...	987.4	50	WSW	8	cqp	1014.8	+2	45	0	WNW	5	–	bcq	6	2	45	39	o.bcq	cq/p	p.bcq	0.6
	Yarmouth ...	997.4	52	WSW	8	bcqp	1017.1	+9	44	−3	WNW	3	–	b	3	3	56	44	bc.omqp	bcqp	bcqp.b	0.0
	Clacton-on-Sea	1001.6	51	WSW	6	bc	1019.3	+5	45	−2	SW	3	SW	bc	2	0.3	54	43	ogp	og.c.bc	bc	0.7
	Nottingham ...	994.1	51	SW	8	o	1015.5	*	43	−9	SW	2	SW	b	*	2	58	41	o.cp	op	op.b	0.8
	Benson (Oxon.) ...	1003.2	52	WSW	8	o	1018.7	0	44	−8	S	3	–	c	*	2	56	43	.	.	o.bc	*
	Sth Farnborough	1005.4	51	SW	7	bc	1018.7	0	49	−5	WSW	2	–	o	*	2	55	44	r.o.bc	bc.o.c	bc.o.	0.3
	London (Kew Obsy.)	1002.1	53	WSW	6	bcq	1019.2	+2	46	−6	SSW	3	–	c	*	1	56	44	o.orq.cq	cq.cr.c.o.bcq	bcq.c	0.7
NORTHERN EUROPE.	Spitsbergen ...	1004.8	−15	SE	2	s	1000.6	0	−19	0	–	0	*	s	*	*	−15	−35				
	Vardö ...	1004.2	19	S	3	o	1003.3	0	18	−5	–	0	–	b	3	*	23	19				
	Bodö ...	995.7	36	SW	4	o	987.0	−4	34	+2	E	6	–	o	2	–	36	28				
	Christiansund	987.9	41	S	4	r	980.7	0	45	0	–	0	–	b	4	7	45	41				
	Skudesnaes ..	982.4	39	SSW	8	r	990.0	+13	43	+2	NW	9	–	o	6	17	41	39				
	Færder (X'iania Fjord)	995.0	26	SE	7	r	987.7	+1	36	+2	–	0	–	f	3	18	36	30				
	The Scaw (Skagen)	1031.4	37	S	6	r	987.4	+1	39	+3	W	4	–	f	4	10	39	34				
	Blaavands Huk	996.6	41	S	6	r	998.9	+6	43	+4	WNW	10	–	r	6	9	45	37				
	Haparanda ...	1008.7	16	S	4	o	1001.7	−1	30	+11	S	4	–	s	*	?	30	14				
	Hernösand ...	1007.0	28	S	6	o	995.5	−3	34	+15	S	4	–	s	*	2	34	19				
	Stockholm ...	1010.4	34	S	2	o	995.7	−5	36	+6	S	4	–	o	*	4	36	30				
	Wisby ...	1012.6	34	SSW	2	f	997.0	−6	37	+7	S	2	–	o	2	3	37	30				
	Karlstad ...	1003.9	34	–	0	o	989.7	−1	36	+4	–	0	–	o	*	12	36	30				
	Petrograd (0 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	999.1	48	SSW	8	c	1015.5	+7	46	+1	WSW	7	–	c	6	–	50	46				
	C. Gris Nez ..	1006.6	51	SW	8	o	1022.0	+2	49	0	SW	5	*	o	6	1	52	46				
	La Heve ...	1016.0	50	SW	7	o	1015.0	*	48	−2	?SW	5	*	r	5	1	54	43				
	Brest (St. Mathieu)	1017.3	53	WSW	5	o	1022.1	0	54	+1	SW	5	*	o	5	4	55	50				
	Rochefort (Ile d'Aix)	1024.6	56	WSW	6	o	1030.0	+1	54	+5	W	5	*	o	*	1	57	54				
	Biarritz ...	1027.5	61	SSW	1	b	1031.1	0	56	+1	S	1	*	b	6	–	66	52				
	Paris ...	1017.3	55	SSW	4	o	1026.6	+2	50	+2	SSW	2	–	r	*	1	57	48				
	Belfort ...	1025.1	46	W	4	o	1029.1	*	49	+8	W	6	*	o	*	3	50	43				
	Lyons ...	1029.0	50	–	0	o	1032.9	*	48	+5	–	0	*	o	*	1	52	47				
	Nice ...	1026.9	46	–	0	bc	1028.0	0	45	+1	–	0	*	o	2	–	54	43				
	Perpignan ...	1029.0	48	–	0	o	1032.9	+2	50	+5	SW	1	NW	bc	*	–	61	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1027.4	63	SW	6	o	1032.6	+3	57	−6	SSW	5	–	o	5	?	64	57				
	Madrid (8 a.m.)	1033.9	55	W	1	c	1038.6	+3	43	−7	–	0	–	f	*	Trace	55	43				
	Lisbon (9 a.m.)	1033.9	59	SSW	2	bc	1035.4	0	54	−5	E	2		o	*	–	64	54				
	Gibraltar ...							*					*									
	Rome ...																					
	Malta (8 a.m.) ...	*	*	*	*	*	1025.9	−2	55	+1	WNW	5	–	b	4	–	59	54				
	Azores (Horta, 8 a.m.)	1006.9	*	SSW	9	m	1016.7	+4	59	−3	WSW	6	*	b	6	17	64	55				
	Madeira (Funchal)	1029.3	68	W	1	c	1031.5	0	59	+2	?	?	–	b	*	–	68	57				

GALES.

Duration and Extreme Force in British Islands

Stornoway. During night of 1st. Squalls SW 8.

Glasgow. 1st 10a.m S 8 in Squalls; 1st 7p.m-Midt. W 8 " "

Eskdalemuir. 1st 7a.m – 2nd 1a.m S-WSW 8. Ex. S 9 @ 10a.m Gust 32 mps. Ex. WSW 9 @ 10p.m " 34 mps.

Malin Head. 1st 3p.m – 2nd 3a.m W 9

Blacksod Point. 1st 7a.m – 2nd 5a.m W 8. Ex. W 10 @ Midt.

Valencia. 1st 1p.m – 2p.m SW 8

Roches Point. 1st 9a.m - Noon SW 8

Donaghadee. 1st 5p.m – 11p.m W 8 in Squalls. Ex. W 9 @ 7p.m

Liverpool. 1st 11a.m – 8p.m SW 8. Ex. SW 9 @ 3p.m

Holyhead. 1st 7a.m – 9p.m W 8. Gust. W 27 mps @ 1p.m. Ex. 3p.m WSW 10. Ex. 5p.m W 10 Gusts 34 mps.

Pembroke. 1st 7a.m – 8p.m WSW 10

Newquay. 1st 9a.m – 4p.m WSW 8

Scilly. 1st 8a.m – 5p.m WSW 8. Ex. WSW 9 @ 1p.m. Gust. WSW 29 mps @ 10a.m

Falmouth. 1st 6p.m WSW 8

Portland. 1st 8a.m – 9p.m WSW 8. Ex. WSW 9 during afternoon.

Dungeness. 1st 1p.m – 6p.m SSW 9

Dover. 1st 10a.m – 6p.m SW 8. Ex. SW 10 @ Noon - Gust 31 mps

Nairn. 1st 8p.m - Midt. WNW 8

Aberdeen. 1st 10a.m Gusts SSE 23 mps. 1st 10p.m " W 23 mps

Spurn Head. 1st 10a.m - 2nd 3a.m WNW 8. Squalls WNW 26 mps @ 4p.m. Ex. WNW 9 @ 10a.m

Yarmouth. 1st 7a.m – 2nd 2a.m SSW 8

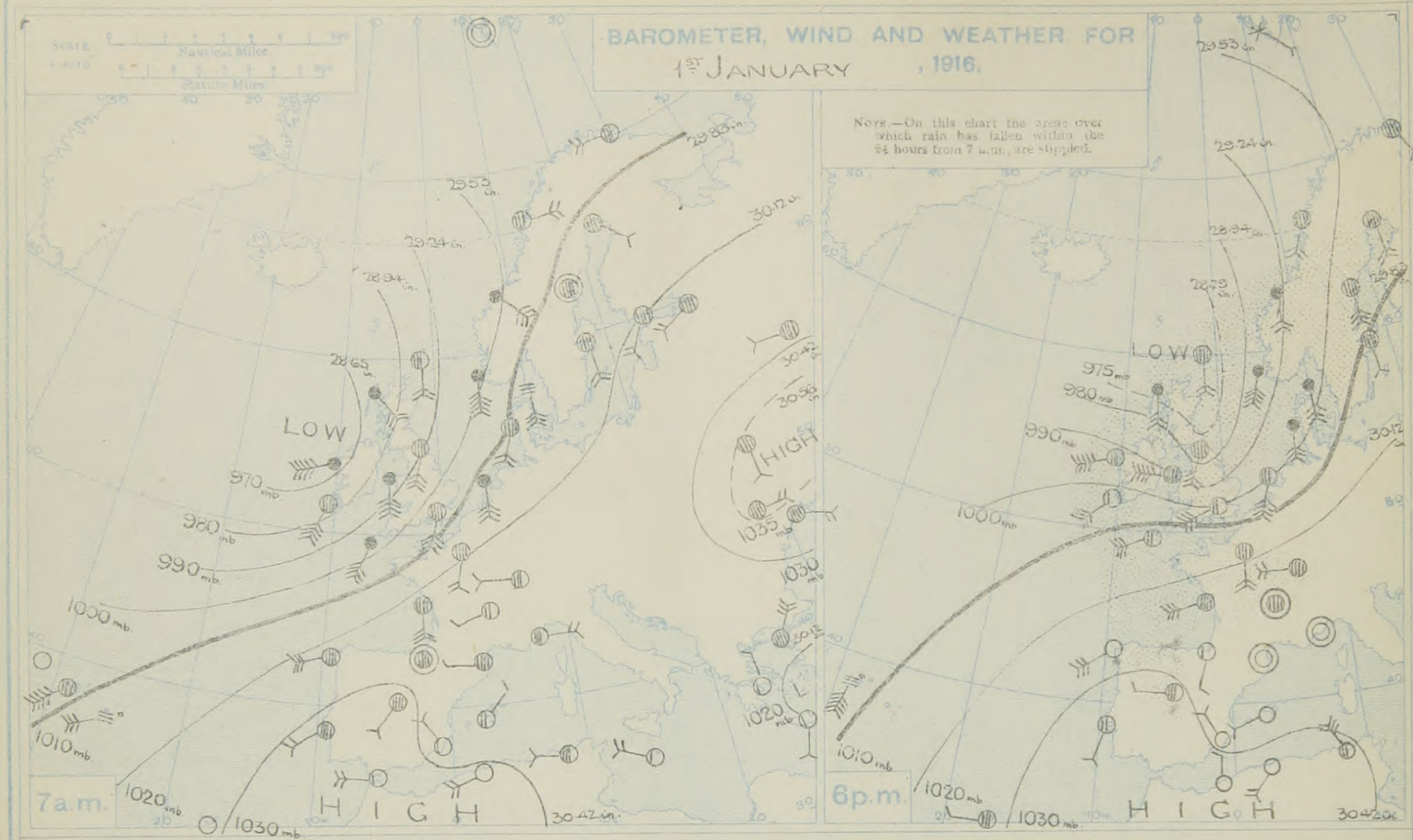
Nottingham. 1st 1p.m SW 8. 1st 2p.m SW 10

Benson. 1st 1p.m – 6p.m WSW 8

Kew. During day of 1st. Gusts SW 9 & 9. Ex. Gust SW 28 mps @ 12.55 p.m

South Kensington. 1st 2p.m Gust SW 22 mps. 1st 2.35 p.m " SW 21 mps. 1st 6.30 p.m " SW 20 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 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 7.15 p.m.

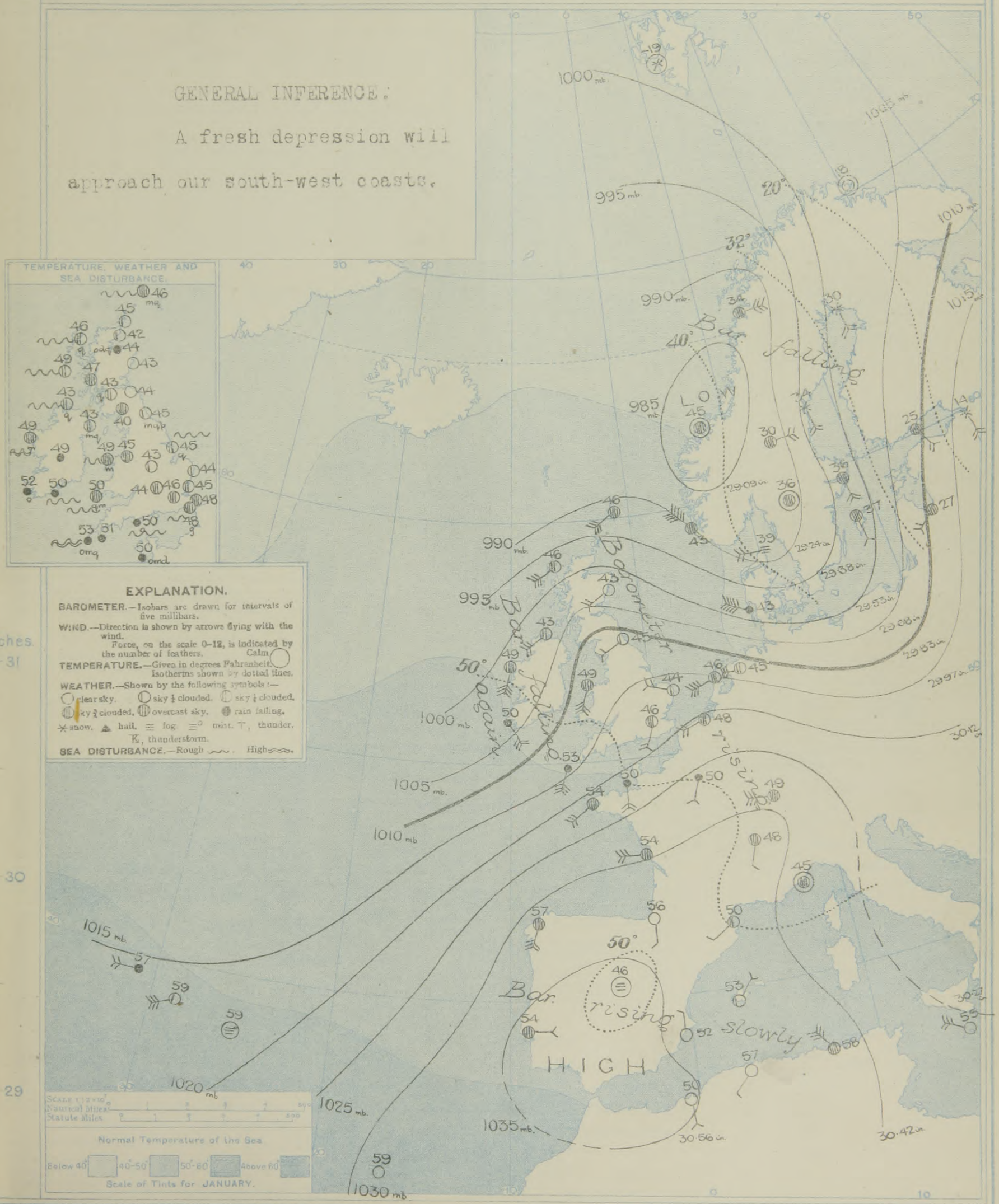
0 a, b	Fresh or strong South Westerly winds, backing Southerly or South-Easterly; fair, becoming dull; some rain; mild.
1, 2 a, b	Moderate or fresh Westerly winds, backing Southerly and increasing in force; dull, some rain; rather mild.
3, 4 a, b, 5	Light winds between West and South-West, backing Southerly and becoming strong; dull and rainy; mild.
6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b	Fresh or strong Southerly winds, increasing to gale force; dull and rainy; mild.
Western Channel and Bay 11	Strong South-Westerly winds, increasing to gale; high sea; dull and rainy; mild.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 2ND JANUARY, 1916.



Issue No. 19,764

DAILY WEATHER REPORT.

Sunday, 2nd January 1916.

REPORTS FOR YESTERDAY.

1st January

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Spitzbergen ...	1003·8	-2	NW	4	c	1004·7	0	-19	-26	-	0	*	b	*	*	7	-22
Vardö	1006·7	21	NW	3	0	1006·9	0	23	0	W	4	-	c	3	*	25	10
Petrograd	1024·6	23	W	8	0	1022·6	-1	25	-	WSW	3	-	0	*	-	25	12
La Hève	1006·9	47	S	6	0	1010·7	*	50	+4	SSW	6	*	0	4	-	50	43
Biarritz	1022·6	52	SW	2	f	1022·6	0	55	-2	-	0	*	0	7	-	61	50
Madrid	1026·7	50	SW	2	0	1033·5	+4	50	+9	SW	2	-	0	*	-	50	41
Lisbon	1026·4	61	SW	4	r	1031·4	+3	59	0	SW	3	-	0	*	Trace	61	57
Horta	1002·1	*	SSW	9	0	1006·4	-3	62	0	SSW	9	*	0	8	15	66	57

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	1·5	49	48	r.o.q	r.o.q	0·0
	Banff						
	St. Andrews				*	*	
Eng., N.E.	Harrogate	0·9	54	43	o.c.p.t	o.r.q	0·3
	Skegness	0·5	55	44	o.b.c.p	p.b.c.o	1·5
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	0·5	55	44	o.c.o.q	o.q	0·0
Midlands.	Buxton	1·2	51	42	c.r	c.r	0·0
	Leamington Spa	0·4	58	47	o.r.b.c	o.r.b.c.s	1·2
	Malvern	0·6	56	49	b.c.p.q	b.c.p.q	2·0
	Ross-on-Wye	0·6	56	51	b.c.q	o.q	0·8
Wales.	Rhyl						
	Colwyn Bay						
	Aberystwyth	0·6	57	52	r.o.c	c.o	0·0
	Tenby						

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft						
	Felixstowe	0·4	55	44	o.q.r	o.q.b.c.p	0·8
	Walton-on-Naze	0·2	48	45	o.c.m.d	o.c.p.b.c	0·8
	Southend-on-Sea	0·1	55	45	o.c.b.c	b.c	0·2
England, S.E.	Margate	0·2	56	46	o.q.p	o.p.q	0·0
	Ramsgate	0·1	53	40	o.r	c	0·0
	Hastings	1·1	53	48	o.p.o	o.r.b	0·0
	Eastbourne	0·2	54	49	o.r	o.b.c.q	0·0
	Seaford	0·1	53	46	r.o	c.r.c.b	0·0
	Brighton	0·2	53	48	o.c.r.o	o.c.b.c.b	0·0
	Worthing	0·3	53	48	q	q	0·0
	Littlehampton	0·4	49	44	o.r.b.c	b.c.o	0·0
	Bognor	0·2	54	48	o.r	o	0·0
	Southsea						
	Bournemouth	0·8	55	45	r.o.c	o.	0·6
England, S.W.	Weymouth	0·5	55	46	g.r.b.c	b.c	0·2
	Torquay	0·7	56	51	o.o.p	b.c.c.o	0·2
	Paignton	0·6	57	50	o.p	c	0·3
	Penzance	0·3	56	50	c.o	c	0·0
	Newquay	?	56	?	b.c.c	b.c.b	0·0
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature (24 hours ended 9 a.m. To-Day.) In Screen Max. °F.	In Screen Min. °F.	Min. on Grass. °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.) ...	65	91	0·6	57	44	36	1	o.q	o.r.q	o.r.o
City (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	93	0·3	58	45	38	1	o.d.r	r.o.p.m	o
Camden Sq. (Brit. Rainfall)	73	91	0·4	57	44	38	1	o.o.d.	b.c.p	*
Hampstead (Reservoir) ...	*	93	0·6	55	42	33	2	c.o.p.b.c	b.c	o.m
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	0·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	67	91	0·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
135 Joules	48 Milliwatts.	16 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.	1·0	53	45	42	b.o.g.r	g.r.h	q.p.c	*
Darwen to 9 p.m.	1·8	51	42	40	o.r.u	o.r.u	o.r.u	0·0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*	57	47	44	o.o.q	o.q.b.q	b.c.q.o.p	*
Teignmouth to 9 ,,	0·5	58	50	44	b.c.q.r	q.r	o	0·0
Plymouth ,,	0·5	56	50	*	o.p.q	o.p.q	c.b.q	0·0
S. Kensington (Museum Grounds to 6 p.m.)	1·1	58	49	41	c.p.o.q	c.q	o.q	*

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

2nd & 3rd January 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8·6 / 8·6	11·57 / 11·58	3·48 / 3·48
Greenwich	8·8 / 8·8	12·4 / 12·4	4·0 / 4·0
Wick	9·5 / 9·5	12·16 / 12·16	3·27 / 3·28
Valencia	8·51 / 8·51	12·43 / 12·43	4·38 / 4·39

NOTES ON YESTERDAY'S WEATHER.

Temperature was exceptionally high all round, 58° at Leamington, Nottingham and in London. Rain was general. Malvern had 2 hours of sunshine, but as a rule there was little or none. Southerly to Westerly gales were experienced in all 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.

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.

§ 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. 3 { Monday, 3rd January

	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 ...	995.1	44	SW	3	om	988.1	+8	43	-3	NW	5	-	or	4	23	46	40	bc.bm	bc.om	oq	*
	Deerness (Orkney)	989.8	42	SE	6	r	991.5	*	43	-2	W	6	-	bc	5	13	47	42	b.bc.o	or	r.or.c.bc	2.3
	Stornoway ...	984.3	45	S	6	or	996.8	+5	44	-2	NW	6	-	bq	5	12	47	43	bc.o.c	or	c.b.p.q	0.0
	Castlebay (Barra Isd.)	992.5	48	W	7	bp	1000.9	+5	48	-1	W	6	-	o	6	7	50	44	ber	r.bp	bp.b.o	0.0
	Glasgow ...	998.0	48	WSW	6	o	1004.0	+6	41	-2	W	4	-	or	*	10	52	41	om.o.pm	p.oq.p	o.c.oq	0.0
	Eskdalemuir ...	1000.7	49	WSW	6	bc	1005.0	+4	42	+2	WSW	6	-	oq	*	15	50	40	o	or	bc.oq	0.0
	Malin Head ...	997.6	47	WSW	7	bcq	1004.5	+5	48	0	SW	7	W	cq	7	6	50	?	omq.d	omq.p	cq.p	0.0
	Blacksod Point	1002.0	48	SW	7	cmq	1010.7	+7	46	-3	WSW	8	W	cmq.p	7	11	46	44	o.f.r	omq	omq.pl	*
	Valencia ...	1009.0	50	SW	3	c	1017.6	+5	49	-3	SW	4	W	b	*	4	55	45	r.o	o.c	bl.c.b	0.0
	Roche's Point	1009.4	51	SW	3	o	1019.3	*	46	-4	W	3	-	b	4	8	54	45	or	r.o	o.b	*
	Birr Castle ...	1006.3	49	SW	2	o	1014.4	*	45	-4	WSW	2	-	bc	*	2	56	44	or.o	c.o	o.bc	0.6
	Donaghadee ...	1001.1	49	W	5	cqz	1006.4	+3	43	0	WSW	6	SW	bcq	5	5	55	43	cqz	cqz	bcmq.p	*
	Liverpool (Bidston)	1004.6	53	SW	5	bc	1010.5	+3	48	+3	SW	6	-	oq	5	3	55	43	opq	oq	oqr	0.0
	Holyhead ...	1006.1	51	SW	5	omc	1012.2	+5	49	0	W	6	-	bcq	5	6	53	47	or.om	omc	b.bc	0.0
	Pembroke (St. Ann's)	1013.9	52	SW	6	oqm	1016.4	+5	?	?	W	6	W	bcq	6	11	53	49	oqdm	oqdm	qdm	0.0
	Scilly (St. Mary's)	1013.6	52	SW	6	omqd	1021.7	+3	50	-3	W	6	-	bcm	7	5	54	49	omqp	omql	omr.bc	0.0
	Falmouth ...	1014.9	55	SW	8	r	1021.9	+7	50	-1	WSW	6	-	b	*	10	54	49	dq.rq	rq	rq.pq	0.0
	Jersey (St. Aubin)	1021.3	54	SW	3	o	1023.7	*	52	+2	WSW	4	W	bc	3	5	55	50	omd.oe	d.oe.o	op.bc	0.0
	Portland Bill ...	1015.4	53	SW	6	od	1019.0	+5	51	+1	W	5	W	b	6	4	53	50	od	od	odc	*
	Dungeness ...	1015.0	51	SW	7	op	1016.5	+2	49	+1	W	6	SW	bcp	5	7	51	48	or	or	or.bc	*
	Dover ...	1015.8	51	SW	7	r	1017.0	+3	50	+2	W	4	W	b	6	15	51	49	opr	opr	r.o.c.b	0.0
	Wick ...	988.0	44	SE	5	omqr	994.1	+6	42	0	W	4	-	bc	4	8	46	41	bm.om	c.omr	rp.bcq	*
	Nairn ...	988.4	49	SSW	6	bc	997.6	*	43	-1	SW	5	-	bcq	3	1	51	41	d.cq	dq.cq	qp.c	0.1
	Aberdeen ...	991.8	46	SSW	4	o	997.2	+2	43	0	WSW	5	-	c	2	3	46	42	b.bc.o	or.o	o.c.bq	0.0
	Leith ...	997.0	52	WSW	2	c	1001.0	+2	45	+1	W	3	-	o	4	2	54	44	bc.o	o.cq.c	c.or	*
	Tynemouth ...	998.5	54	WSW	3	omq	1003.2	0	47	+2	W	5	-	bcq	4	-	54	43	om	omq	bcq	*
	Spurn Head ...	1006.1	49	WSW	5	o	1008.2	0	48	+3	SW	6	-	bcq	6	2	51	41	c.or	r.oq	cq	0.0
	Yarmouth ...	1009.9	52	WSW	4	o	1011.5	+1	49	+5	WSW	4	-	cpq	3	12	56	41	omr	om	bcpq	0.0
	Clacton-on-Sea	1012.5	50	SW	3	o	1013.7	+2	50	+5	W	4	NW	bc	?	8	51	44	bc.oqr	oqr.oq	oqr.bc	0.0
	Nottingham ...	1007.2	56	W	5	o	1012.3	*	48	+5	W	3	W	cp	*	7	56	42	c.or	or	r.o	0.0
	Benson (Oxon.) ...	1012.4	53	SSW	4	o	1016.8	+6	48	+4	WSW	4	-	b	*	6	54	45	-	-	oq	*
	Sth Farnborough	1013.7	54	WSW	5	r	1017.1	+4	49	+2	W	4	W	b	*	4	54	47	o	or	or.be.b	0.0
	London (Kew Obsy.)	1013.5	56	SW	5	o	1017.1	+6	51	+5	W	6	-	bc	*	11	55	45	com.oq	oem.om	o.or.cb	0.0
NORTHERN EUROPE.	Spitsbergen ...	1001.9	-31	-	0	b	1003.9	0	-35	-16	-	0	*	b	*	*	-19	-40				
	Vardö ...	995.1	28	SSW	5	o	991.0	0	30	+12	W	1	-	o	2	*	28	14				
	Bodö ...	986.4	34	E	5	o	982.1	-3	36	+2	E	4	-	o	4	5	45	37				
	Christiansund	993.6	43	SW	7	r	984.8	-4	39	-6	-	0	-	c	4	[illegible]	45	37				
	Skudesnaes ..	1000.3	39	SSW	4	o	989.0	-3	43	0	S	7	-	o	6	4	43	39				
	Færder (X'iania Fjord)	999.9	37	W	4	b	990.4	-3	36	0	SW	6	-	b	3	3	37	34				
	The Scaw (Skagen)	1003.5	39	W	6	b	996.6	0	39	0	W	5	-	b	5	4	43	37				
	Blaavands Huk	1011.1	41	W	3	c	1003.0	0	43	0	W	4	-	c	3	2	43	39				
	Haparanda ...	998.3	28	S	4	s	991.3	-5	23	-7	SSE	6	-	s	*	9	30	21				
	Hernösand ...	993.6	32	-	0	f	991.1	-3	32	-2	S	2	SW	bc	*	1	34	32				
	Stockholm ...	994.9	36	S	2	f	995.5	-2	36	0	SW	4	-	o	*	1	37	34				
	Wisby ...	997.7	37	WSW	2	o	1000.3	0	37	0	SW	4	-	r	4	Trace	41	34				
	Karlstad ...	997.2	34	-	0	b	990.7	-8	36	0	SW	4	-	o	*	4	37	30				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1011.7	46	S	7	r	1010.1	0	48	+2	SW	5	-	r	4	5	48	46				
	C. Gris Nez ...	1016.0	51	SW	7	r	1016.2	+3	51	+2	W	6	*	b	6	10	52	50				
	La Hève ...	1018.6	52	SSW	7	o	1019.8	*	52	+4	W	6	*	c	6	6	52	50				
	Brest (St. Mathieu)	1022.6	52	SW	6	f	1026.9	+6	51	-3	W	4	*	c	5	-	55	48				
	Rochefort (Ile d'Aix)	1030.7	54	WSW	4	bc	1029.3	+3	52	-2	WSW	5	*	r	*	1	57	50				
	Biarritz ...												*									
	Paris ...	1025.0	57	SW	3	o	1023.5	+2	52	+2	SSW	4	-	o	*	5	57	48				
	Belfort ...	1029.6	52	W	6	o	1028.6	*	50	+1	WSW	7	*	o	*	2	52	46				
	Lyons ...	1032.3	55	SE	1	o	1032.7	*	49	+1	-	0	*	c	*	-	63	47				
	Nice ...	1025.9	46	E	2	b	1024.6	0	45	0	E	2	*	o	1	-	54	43				
	Perpignan ...	1031.5	59	NW	2	b	1031.5	0	50	0	NW	1	W	bc	*	-	66	45				
	Sanguinaire ..	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1033.5	59	SSW	5	bc	1035.3	+2	59	+2	SSE	5	SW	bc	2	?	61	54				
	Madrid (8 a.m.)	1037.2	45	NNW	1	m	1039.1	+1	39	-4	NNE	1	-	f	*	Trace	45	37				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1033.5	55	E	3	f	1032.2	*	50	-	E	2	*	f	2	-	65	47				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1022.9	0	57	+2	WNW	5	-	c	4	-	61	55				
	Azores (Horta, 8 a.m.)	1020.8	*	SSW	6	o	1018.0	-3	60	+1	SSW	6	*	r	6	-	63	59				
	Madeira (Funchal)	1031.1	66	S	1	b	1030.9	0	56	-4	SE	2	-	b	2	-	70	55				

GALES.

Duration and Extreme Force in British Islands.

Deerness. 2nd Jan.

W.8. 10 p.m. to Midnight

Stornoway. 2nd Jan.

Squalls N.W.8 during night.

Langholm. 3rd Jan.

Squall S.W. 23 m.p.s. during night

Blacksod. 3rd Jan.

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

Dover. 2nd Jan.

S.W.8 at 10 p.m.

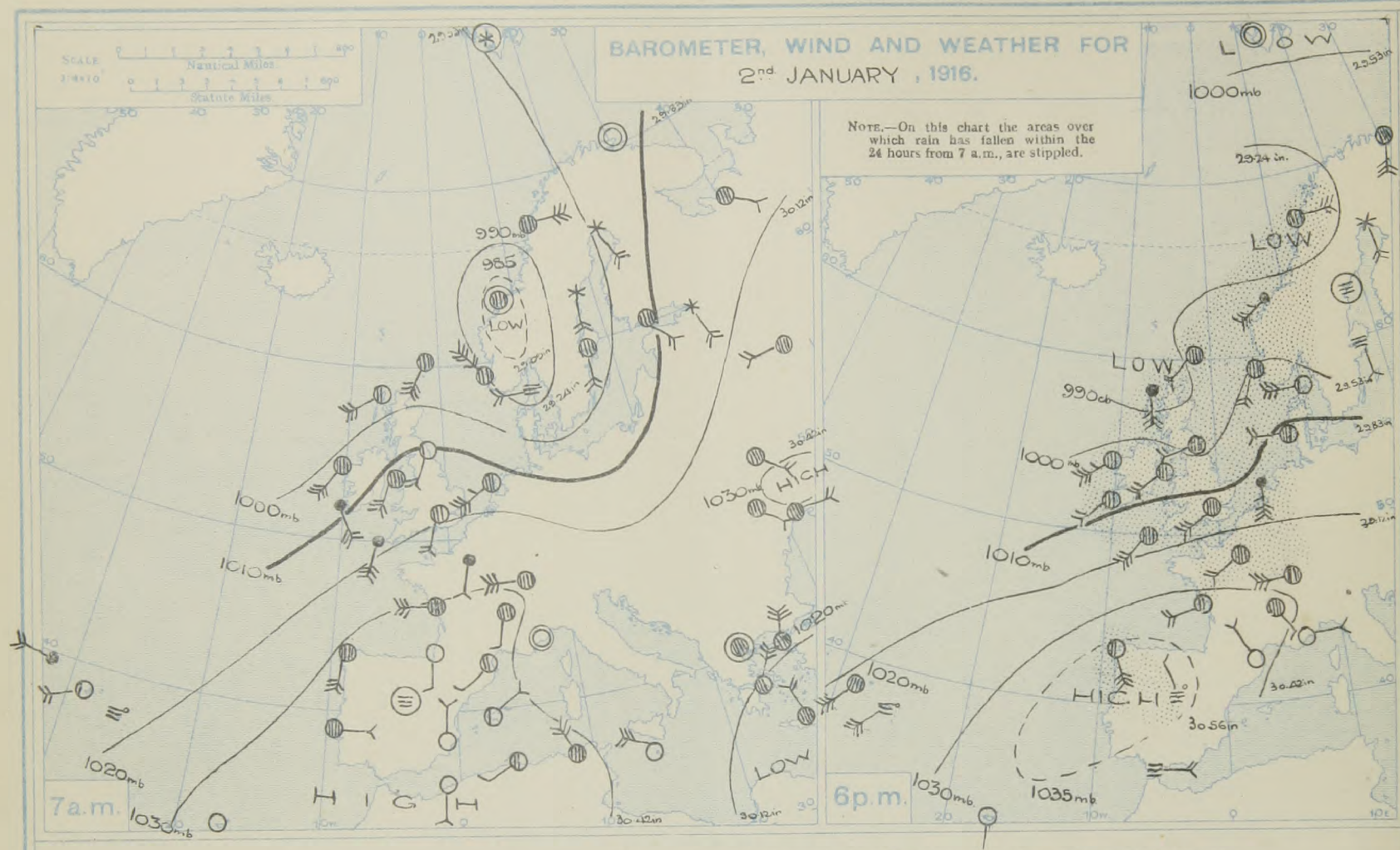
Nairn. 2nd Jan.

W.S.W.8. 7 p.m. to Midnight.

South Farnborough:

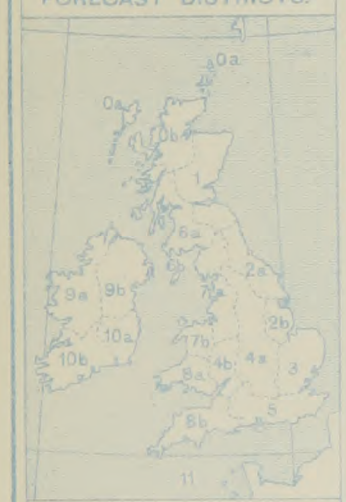
Pilot Balloon Ascent at about 7.45 a.m.

500 metres. W. 45 miles per hour.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 {a, b}, 1 — Strong winds between West and North-West, moderating gradually and backing later; some rain, improving temporarily; temperature normal.

2 {a, b}, 3, 4 {a, b}, 5 — Fresh or strong Westerly winds, decreasing slowly and backing later; fair, squally; temperature cooler than of late.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b}, 8 {a, b}, 9 {a, b} — Strong Westerly winds, decreasing, then backing Southerly; fair to-day, then becoming dull with rain again; temperature about normal.

10 {a, b}, 11 — Moderate Westerly winds, backing Southerly and increasing; fair to-day, then becoming dull with rain again; temperature about normal.

FURTHER OUTLOOK. — Strong Westerly winds, decreasing and backing Southerly later; high sea, moderating; fair weather, deteriorating; temperature rather mild.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 3RD JANUARY, 1916.

GENERAL INFERENCE.

The weather conditions over the British Isles will improve temporarily, but a further disturbance will approach our western coasts by to-morrow.

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1:25,000,000
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 JANUARY

HIGH

1000mb

995mb

990mb

985mb

LOW

Barometer falling

Barometer decidedly rising

1005mb

1010mb

1015mb

1020mb

1025mb

1030mb

1035mb

HIGH

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

Station Date & Hour		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		Sth. Farnborough Dec. 28. 7.50h.		Sth. Farnborough 29th. 9.50h.																	
Heights in Kilometres.	3	+20	+6																		
	2	+16	0																		
	1	+18	−2	−14	+18																
	0.5	+15	0	−13	+10																
	0	+5	+3	−4	−1																

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	13	52	45	r.o.q	r.o.q	0.0
	Banff						
	St. Andrews				*	*	
Eng. N.E.	Harrogate	6	54	40	c.or	r.o.c	0.0
	Skegness	5	52	40	o.g.r	r.o	0.0
Eng. N.W.	Morecambe						
	Blackpool	5	53	44	o.or	or.o	0.0
	Southport	2	53	43	or	o.c.o	0.0
Midlands.	Buxton						
	Leamington Spa	5	55	44	c.op	c.op	0.0
	Malvern	5	56	47	r	o	0.0
	Ross-on-Wye						
Wales.	Rhyl	2	56	45	q	q	0.0
	Colwyn Bay						
	Aberystwyth	3	52	45	r.o	c.o	0.0
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. E.	Lowestoft						
	Felixstowe	5	52	43	omr	omr	0.0
	Walton-on-Naze	6	50	43	ocmp.c	ocg	0.0
	Southend-on-Sea	5	53	45	or	o	0.0
England. S.E.	Margate	10	55	40	o.r	or.q	0.0
	Ramsgate	5	49	35	or	od	0.0
	Hastings	?	57	47	bc.or	or	0.0
	Eastbourne	7	53	49	orq	orq	0.0
	Seaford						
	Brighton	5	51	48	o.or	or	0.0
	Worthing	3	51	47	d	d	0.0
	Littlehampton	2	52	45	odr	dr	0.0
	Bognor	2	52	48	od	od	0.0
	Southsea						
	Bournemouth	6	53	46	or	or	0.0
England. S.W.	Weymouth	2	53	49	od	d.o	0.0
	Torquay	7	55	50	oq	or	0.0
	Paignton						
	Penzance						
	Newquay	*	55	49	op	op.r	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.)	92	78	0.0	55	48	43	11	o.or	o.op	oqob
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	96	88	0.0	56	49	42	11	bc.d	bcu	bc.d
Camden Sq. (Brit. Rainfall)	-	79	0.0	55	48	43	12	-	-	*
Hampstead (Reservoir)	*	83	0.0	52	45	44	12	or	oqb	bc
Richmond Park	*	*								
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	93	82	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
57 Joules	2.0 Milliwatts.	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.	1	58	44	39	bomg	opcq	cbqo	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	5	55	49	43	o.qr	or	or	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	56	46	35	cq bc	o.omr	od.o	*

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

3rd & 4th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.6 8.5	11.58 11.58	3.49 3.50
Greenwich	8.8 8.8	12.5 12.5	4.1 4.2
Wick	9.4 9.3	12.17 12.17	3.29 3.30
Valencia	8.57 8.50	12.46 12.46	4.40 4.41

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 55° at several stations, and the minima at many places were above 45°. Rain fell generally, and lightning was reported at several stations in the west last night. The day was practically sunless over the whole country.

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. 4

Tuesday 4th January

	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.	Afternoon.	Night.	Sunshine for Yesterday.
			F.					‡	F.	F.							F.	F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1024.5	43	NW	3	om	996.5	-12	44	+1	NE	7	-	oqr	6	12	44	41	or.bc	bc.pom	omrpq	*
	Deerness (Orkney)	1007.9	43	W	4	b	992.5	*	45	+2	S	6	-	oq	4	7	46	40	bc	bc.b	b.bcco	2.3
	Stornoway ...	1008.8	44	W	4	op	989.6	-4	47	+3	SSW	7	-	oq	6	14	48	41	bq	b.opq	opq	2.7
	Castlebay (Barra Sd.)	1009.7	48	SW	5	o	992.6	-4	49	+1	SW	6	SW	o	6	4	51	46	o.bc	bc.o	op.r.o	1.8
	Glasgow ...	1015.6	43	WSW	2	b	999.4	-10	50	+9	SSW	6	-	oqr	*	1	50	40	op.bcc	c.bc.cm	omoqp	1.6
	Eskdalemuir ...	1017.5	41	SW	4	c	1004.9	-9	46	+4	S	8	-	or	*	4	46	37	oqrop	op.cq.c	c.oq.or	1.4
	Malin Head ...	1013.1	45	S	3	bcm	997.6	+1	48	+5	SW	6	-	omqd	6	4	48	42	bomq	bcm	omqr	1.0
	Blacksod Point	1009.3	48	S	9	omq	1000.1	+1	48	+2	SW	8	SW	omp	7	5	51	43	bcm	omq	omqr	*
	Valencia ...	1016.4	51	S	6	bc	1008.0	0	52	+3	SW	6	-	op	*	4	54	47	bc	bc	c.o.op	1.9
	Roche's Point	1022.2	50	SW	4	o	1011.4	*	52	+6	SW	8	-	o	5	2	52	45	b.bc.c	c.ome	ome	*
	Birr Castle ...	1017.3	46	S	3	o	1004.3	*	45	0	SW	6	-	o	*	1	56	44	c	c.o	oqp	1.7
	Donaghadee ...	1016.6	46	SSW	3	ogm	1000.8	-9	50	+7	SSW	5	-	ogmq	4	-	50	42	bqz	om	ogmq	*
	Liverpool (Bidston)	1020.4	47	-	0	bc	1012.7	-5	50	+2	SSE	3	-	o	3	-	51	45	b	b.o	c.o	4.6
	Holyhead ...	1020.3	49	SW	5	omq	1009.5	-7	50	+1	SSW	7	-	odqm	6	0.1	50	48	bc	bc.c.oq	b.bcod	3.7
	Pembroke (St. Ann's)	1024.1	49	SW	4	bq	1015.9	+1	50	?	SSW	7	-	oq.dm	6	0.3	50	48	bc	bcq	bcq	4.6
	Scilly (St. Mary's)	1025.8	50	SSW	4	bm	1019.2	-2	52	+2	SW	6	-	omd	6	1	52	48	bm	b.bcm	cm.omd	0.0
	Falmouth ...	1026.9	50	SSW	4	c	1021.2	-3	52	+2	SSW	6	-	r	*	1	53	49	bq.bc	c	bqdq	3.2
	Jersey (St. Aubin)	1030.0	51	W	3	b	1026.2	*	51	-1	S	4	-	oe	3	Trace	54	48	bc	c.b	b.opoc	5.8
	Portland Bill ...	1026.8	50	WSW	4	b	1021.3	-6	50	-1	SW	5	-	or	5	1	52	49	bc	bc.b	bcor	*
	Dungeness ...	1027.5	47	SW	3	b	1024.1	-2	49	0	SW	5	SW	cu	4	-	53	47	bc.b	b.bc.b	b.bc	*
	Dover ...	1027.3	47	W	4	b	1024.2	-2	48	-2	SW	5	SW	o	5	-	53	45	b	b	bc.c.o	6.8
	Wick ...	1009.3	40	W	2	b	994.7	-9	41	-1	S	3	-	o	4	2	46	38	bcqp	bc	bm.r.oq	*
	Nairn ...	1011.6	40	W	1	bc	993.9	*	49	+6	WSW	4	-	cp	3	1	49	39	op.bc	bc	bcqp	1.9
	Aberdeen ...	1011.8	43	WSW	4	b	998.4	-10	50	+7	SSW	6	-	o	3	-	50	40	bq	bqb	b.bcoq	4.6
	Leith ...	1014.3	45	W	2	c	997.2	-6	52	+7	W	4	-	o	4	1	52	42	o.cp.o	c.bc.o	c.oq.o	*
	Tynemouth ...	1017.0	45	WSW	3	bm	1007.7	-6	50	+3	SW	4	-	om	4	-	50	44	bq	bq	bcm	*
	Spurn Head ...	1020.9	46	WNW	7	bcq	1015.1	-3	46	-2	W	6	-	bcq	5	-	48	42	bcq	bcq	bc.oq	2.6
	Yarmouth ...	1023.0	46	WNW	3	b	1020.1	-4	46	-3	SW	5	-	c	4	-	51	43	cpq.b	b	bc	5.9
	Clacton-on-Sea	1025.1	45	W	3	bc	1021.9	-2	47	-3	WSW	4	W	c	3	-	52	44	bc	bc	bc.c	5.8
	Nottingham ...	1022.9	45	W	3	b	1016.0	*	48	0	SW	5	SW	c	*	1	51	41	cp.bc	bc.b	bc.o	5.2
	Benson (Oxon.) ...	1025.4	45	WSW	3	b	1021.0	-2	49	+1	SSW	4	-	o	*	-	51	42	-	-	b.bc.o	*
	Sth Farnborough	1026.6	44	WSW	2	b	1021.8	-3	48	-1	SW	3	-	od	*	1	51	42	bc.b	b	bc.od	5.3
	London (Kew Obsy.)	1027.1	47	SW	3	b	1021.4	-4	50	-1	SSW	4	-	o	*	-	52	44	bc.b	b	b.bc.b.o	5.7
NORTHERN EUROPE.	Spitsbergen ...	1007.4	-33	-	0	b	1009.2	+3	-36	-1	-	0	*	b	*	*	-33	-45				
	Vardö ...	989.7	25	SSW	1	o	994.1	?	28	-2	NNE	5	-	o	4	*	30	19				
	Bodö ...	986.7	37	E	2	r	998.0	+7	36	0	E	2	-	b	2	16	37	34				
	Christiansund	993.8	39	SW	4	c	1003.7	+2	39	0	SW	5	-	o	5	5	39	39				
	Skudesnaes ...	1002.9	41	NW	4	b	1007.5	-3	39	-4	SSW	3	-	m	5	7	43	39				
	Færder (X'tania F'jord)	991.4	37	W	2	c	1006.9	+3	36	0	W	4	-	b	3	-	37	36				
	The Scaw (Skagen)	992.4	41	W	7	o	1009.3	+4	39	0	WNW	5	-	o	5	-	43	37				
	Blaavands Huk	1007.9	43	WNW	6	c	1016.4	0	41	-2	WNW	3	-	o	3	-	45	39				
	Haparanda † ...	988.7	27	W	4	s	995.3	+3	25	+2	-	0	-	o	*	6	27	23				
	Hernösand † ...	989.1	32	--	0	f	998.1	+3	30	-2	-	0	-	c	*	Trace	34	27				
	Stockholm † ...	991.3	36	SW	2	o	1001.6	+7	34	-2	NW	2	S	o	*	1	37	34				
	Wisby † ...	996.8	37	WSW	2	o	1003.4	+8	36	-1	NW	4	-	o	4	2	39	34				
	Karlstad † ...	989.6	36	-	0	o	1006.1	+7	39	+3	-	0	-	b	*	-	37	28				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1020.2	46	W	6	b	1021.1	-5	45	-3	SSW	5	-	o	5	2	48	45				
	C. Gris Nez ...	1026.3	49	W	5	o	1024.0	-2	47	-4	SW	6	*	o	6	-	52	46				
	La Hève ...	1030.3	48	WSW	4	o	1024.4	*	44	-8	SW	4	*	c	5	-	54	43				
	Brest (St. Mathieu)	1031.1	50	WSW	4	o	1026.6	-1	52	+1	SW	5	*	f	5	1	54	48				
	Rochefort (Ile d'Aix)	1034.7	52	WSW	2	o	1032.4	-1	50	-2	WSW	3	*	f	*	1	54	50				
	Biarritz ...	1035.7	56	ENE	2	o	1032.0	-3	50	-1	ESE	1	*	b	3	-	59	45				
	Paris ...	1031.7	48	WSW	2	b	1031.1	-2	45	-7	SSW	3	-	o	*	Trace	57	39				
	Belfort ...	1031.0	46	WSW	7	c	1034.1	*	41	-9	-	0	*	b	*	2	53	41				
	Lyons ...	1035.1	50	-	0	b	1035.4	*	41	-8	-	0	*	b	*	-	56	38				
	Nice ...	1025.3	47	-	0	b	1026.4	+1	51	+6	-	0	*	b	0	-	54	41				
	Perpignan ...	1033.1	57	NW	3	bc	1031.1	0	50	0	W	2	-	b	*	-	63	48				
	Sanguinaire ...	*	56	E	2	f	*	*	55	+1	E	3	*	bc	5	-	59	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034.4	59	SW	3	bc	1032.7	+3	48	-11	SSE	3	-	bc	2	-	61	48				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar ...	1031.1	55	E	4	m	1030.8	*	47	-3	E	5	*	o	3	-	59	40				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1021.6	-1	55	-2	WNW	3	-	b	2	-	61	55				
	Azores (Horta, 8 a.m.)	1016.6	*	SSW	7	f							*									
	Madeira (Funchal)	1028.0	63	SE	3	b	1027.9	-1	54	-1	SE	2	-	b	2	-	68	54				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 4th Jan.

S.S.W. 8. in early morning

Eskdalemuir: 4th Jan.

S. 8. 6 am to 7 a.m.

Malin Head: 3rd & 4th Jan.

S. 8. 10 pm to 6 a.m.
S. 9. at 2 a.m.

Blacksod Point: 3rd & 4th Jan.

S.S.W. 8. 7 a.m. to 8 a.m.
S. 9. 6 pm. to 8 pm.
S.S.W. 10. 8 pm. to 1 a.m.
S.W. 8. 1 a.m. to 7 a.m.

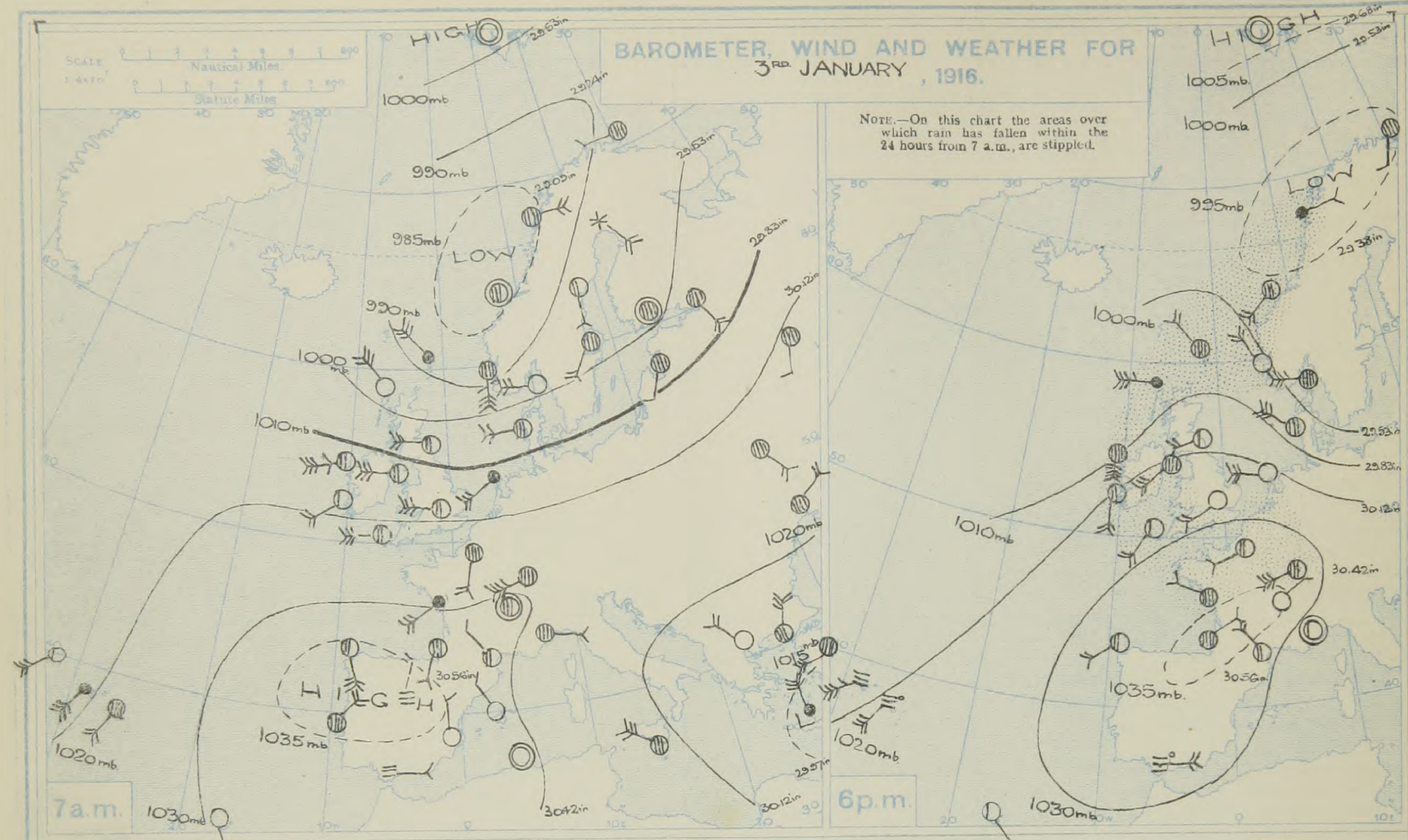
Aberdeen: 3rd & 4th Jan.

Gust W. 20 m/s. at 1 pm
Gust W. 22 m/s at 2 pm
Gust S.S.W. 19 m/s at 7 a.m.

Spurn Head: 3rd Jan.

W.N.W. 8 Noon to 2 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.

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 at 2.45 a.m. To-day in Districts 0, 1, 2, 6, 7, 8, 9 & 10

Western Channel and Bay

0 (a, b), 1, 2 (a, b): Fresh or strong South-Westerly winds, a gale at times; dull, some rain; continuing mild.

3, 4 (a, b), 5: Fresh or strong South-Westerly wind; dull, some rain; continuing 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), 10 (a, b): Same as Nos. 0 to 2.

11: Fresh or strong South-Westerly wind; sea rough; some mist or fog.

FURTHER OUTLOOK.

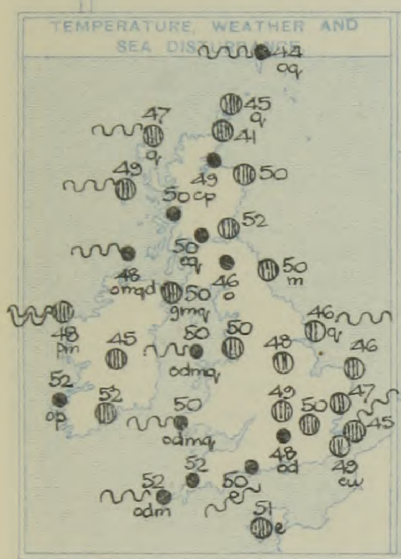
R. G. K. LEMPFERT, Superintendant, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 4TH JANUARY, 1916.

GENERAL INFERENCE.

The depression centred off the Hebrides will move north-eastward. The British Isles are likely to remain under its influence during the ensuing 24 hours.



EXPLANATION.

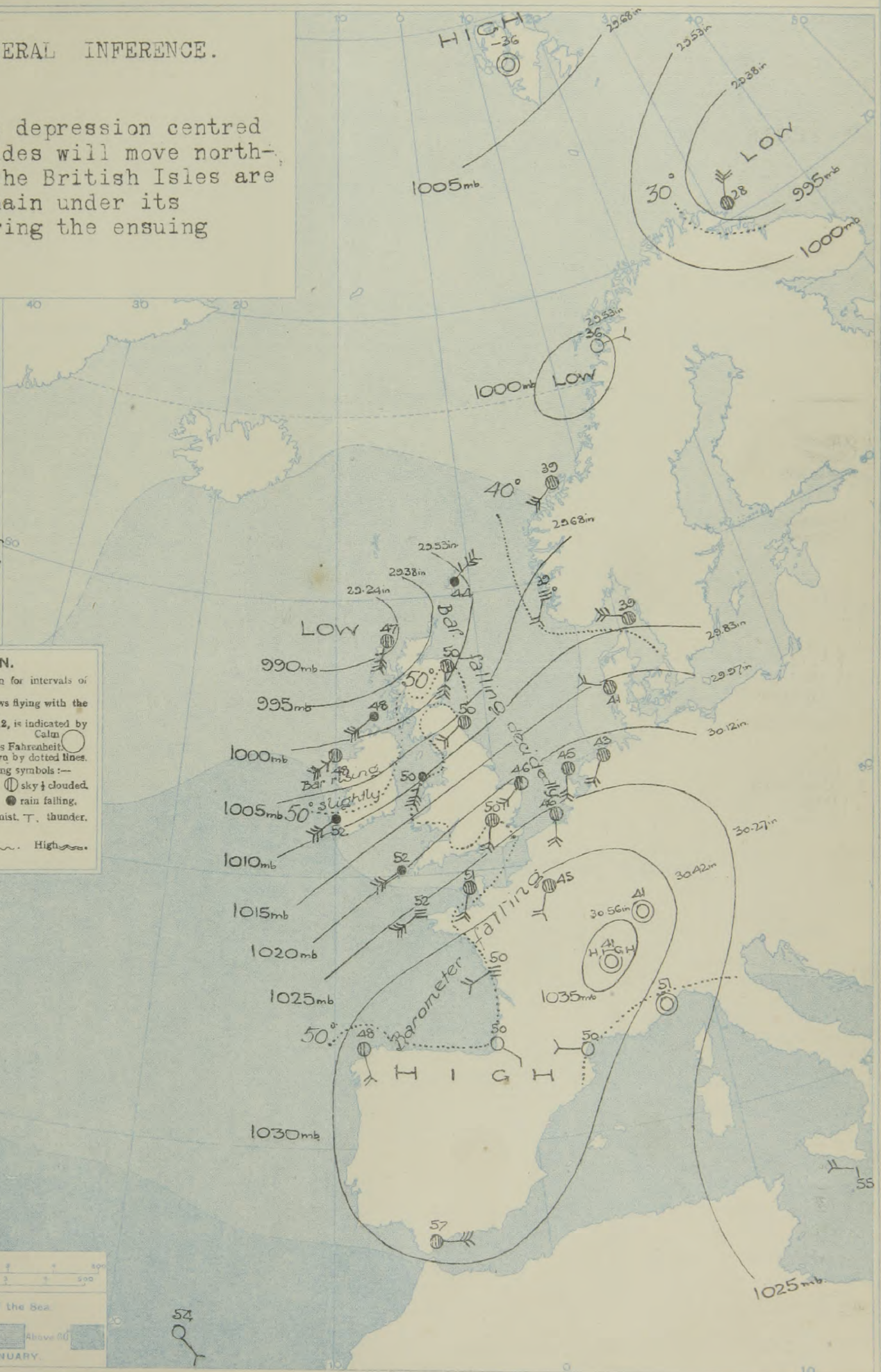
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 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 JANUARY.

Issue No. 19,765.

DAILY WEATHER REPORT.

Tuesday, 4th January, 1916.

REPORTS FOR YESTERDAY.

3rd January, 1916.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1010·7	23	SSE	4	0	1005·1	-4	27	-	SSE	4	-	0	*	-	27	14
Biarritz	1032·6	57	ENE	1	b	1033·9	+2	61	-	SSW	2	*	c	4	-	63	50
Sanguinaire	*	-	-	-	-	*	*	54	-2	E	1	*	m	?	-	?	?
Lisbon	1033·1	54	NNE	3	f	1035·3	0	46	-8	NNE	4	-	0	?	-	54	46

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	10	48	42	bc p	o	0·0
	Banff	-	47	41	bc.b	b.bc.b	4.9
	St. Andrews	6	47	41	*	*	4·5
Engl. N.E.	Harrogate	1	47	43	b	b.bc	5·2
	Skegness	0·1	50	44	bc	bc.b	5.5
Engl. N.W.	Morecambe						
	Blackpool	0·1	50	46	b	bc.c	3.0
	Southport	1	49	45	c.bc	b.bc.o.c	3·9
Midlands.	Buxton						
	Leamington Spa	-	51	47	b	b	5·8
	Malvern	-	51	47	b	b	5·7
	Ross-on-Wye	2	53	47	bc.b	b	5·3
Wales.	Rhyl	-	51	46	b	bc.c	3.0
	Colwyn Bay	-	53	45	bc	bc	3·7
	Aberystwyth	6	50	48	r.o.c	c.bc	3.5
	Tenby	5	51	47	b	bc	4.4

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	11	51	47	c.bc	bc.b	4·8
	Felixstowe	4	52	46	bc	bc	6·3
	Walton-on-Naze	7	61	45	b	bc	6·6
	Southend-on-Sea	1	52	46	b	b	5·4
England, S.E.	Margate	2	53	47	b	b.bc	4.6
	Ramsgate	3	52	46	bc	bc	6.7
	Hastings	6	53	46	or.bc.b	b	6.1
	Eastbourne	3	52	48	b	b	6.0
	Seaford	2	51	48	b	b	6·2
	Brighton	3	51	48	b.bc	bc.b	5·8
	Worthing	4	53	48	b	b	5·2
	Littlehampton	2	53	47	bc.b	b	6.4
	Bognor	4	54	48	b bc	b	65
	Southsea	-	53	49	b	b	5·6
	Bournemouth	-	54	46	b	b	6.6
England, S.W.	Weymouth	-	53	49	b	b	6.3
	Torquay	7	54	50	b	b	5·8
	Paignton						
	Penzance	3	55	50	bc	c.o	4.2
	Newquay	*	52	48	b	b	5·1
	Ilfracombe	-	52	48	bc	bc	2.5
	Weston-super-Mare	9	51	45	bc.b	b	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.)	67	91	5·9	53	43	35	-	b	bq.b	o
City (Bunhill Row)	*	*	3·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	69	89	5·2	54	46	38	. .	bc	bc	bcuoe
Camden Sq. (Brit. Rainfall)	72	92	4·3	53	45	39	Trace	b	b	*
Hampstead (Reservoir)	*	96	5·4	51	42	34	-	bc	o	o
Richmond Park	*	*	5·0							
Kew. (See front page.)	*	*	5·7							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	67	94	5·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
319 Joules	1·3 Milliwatts.	19 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.								*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	2	55	50	45	or.c.bc	bc	b	6·5
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	6	56	47	41	o or	c.b	bo b	*

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

4th & 5th January, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.5 / 8.5	11.58 / 11.58	3.50 / 3.51
Greenwich	8.7 / 8.7	12.5 / 12.5	4.2 / 4.3
Wick	9.3 / 9.2	12.17 / 12.17	3.30 / 3.32
Valencia	9.50 / 9.50	12.46 / 12.46	4.41 / 4.42

NOTES ON YESTERDAY'S WEATHER.

Fair weather prevailed during yesterday, over 6 hours of bright sunshine being experienced at many stations. During the night conditions became less settled, a Southerly gale with rain was experienced in the north-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.

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

§ 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. 5 { Wednesday, 5th January.

	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 ...	985.5	45	SW	5	om	986.4	+7	46	+2	WNW	7	-	omq	5	6	46	43	om.bc	bc.om	oqmp	*
	Deerness (Orkney)	986.1	43	SSW	5	bcp	993.3	*	45	0	WNW	6	-	cqp	5	6	45	42	o.cbcb	b.bcp	c.opq	3.4
	Stornoway ...	985.4	47	WSW	8	cfq	1002.6	+8	43	-4	NW	8	..	cpq	7	14	49	43	opq	o.cpq	cpq	0.0
	Castlebay (Barra Isd.)	993.9	47	SW	8	opq	1008.7	+6	46	-3	W	7	-	bq	6	2	50	43	obcq	pq.op	op.c.bq	0.1
	Glasgow ...	1001.1	45	SW	5	o	1010.0	+7	44	-6	W	6	NW	bcq	*	8	51	42	oqrcp	c.oqp	chrlb	1.9
	Eskdalemuir ...	1004.2	43	SW	5	oq	1012.1	+8	40	-6	W	6	-	or	*	23	48	39	orqbc	cq.oq	od.op0	0.3
	Malin Head ...	1000.8	47	SW	8	bcqp	1012.8	+5	46	-2	SW	6	SW	bcq	6	4	49	39	bcmq	bcmq	bcq	1.9
	Blacksod Point	1006.9	46	WSW	8	cmqp	1018.3	+4	45	-3	W	6	W	cm	7	1	48	40	bcm	bcqp	bcqp	*
	Valencia ...	1015.5	48	SW	5	bc	1023.9	+2	46	-6	SW	2	NW	bc	*	3	51	45	oc	q	bcp.bc	0.0
	Roche's Point	1015.2	48	W	3	b	1025.8	*	45	-7	WNW	2	NW	b	3	1	53	43	d.o	o.c.bc.b	b bc.b	*
	Birr Castle ...	1011.5	45	W	3	c	1021.4	*	42	-3	W	2	-	c	*	3	54	41	oqpc	c	c	0.0
	Donaghadee ...	1004.9	45	WSW	6	bcmq	1015.2	+7	42	-8	W	6	.	bql	4	1	53	42	cmq	bcmq	bcmbq	*
	Liverpool (Bidston)	1009.5	47	WSW	4	o	1019.1	+4	45	-5	SW	5	-	b	4	3	56	44	o.	cp.	cq	0.2
	Holyhead ...	1010.3	48	SW	4	cq	1020.3	+3	47	-3	W	6	.	cq	5	3	52	46	od.o.od	or.o.c	c.bbcc	0.0
	Pembroke (St. Ann's)	1018.6	47	NW	5	oqq	1024.9	+2	49	-1	W	5	W	cq	6	3	51	47	oqdm	oqdm	bcq	0.0
	Scilly (St. Mary's)	1016.4	52	WSW	6	omr	1027.0	+2	48	-4	W	4	-	b	5	3	53	46	omd	om	empb	0.0
	Falmouth ...	1017.4	52	SW	8	odq	1027.4	+4	44	-8	WSW	3	-	b	*	4	52	43	oq	odq	dqrq	0.0
	Jersey (St. Aubin)	1024.0	53	SW	3	o	1028.2	*	48	-3	W	3	W	b	3	1	54	47	oc	oc.o	opb	0.0
	Portland Bill ...	1017.5	52	SW	7	odq	1025.3	+5	49	-1	W	5	.	b	5	4	53	47	r.o	or	or.cbc	*
	Dungeness ...	1018.8	50	WSW	5	c	1023.2	+5	44	-5	W	3	SW	bc	3	4	50	44	op	op.bc	or.bc	*
	Dover	1018.9	50	SW	7	r	1024.2	+4	43	-5	SW	4	-	b	3	6	50	41	o	opr.d	d.ocb	0.0
	Wick	988.3	44	SW	4	r	997.2	+8	42	+1	W	4	.	bc	4	2	46	41	og.bc	bcqp	oqrbc	*
	Nairn	991.1	44	WSW	6	cq	1002.8	*	43	-6	W	6	-	qpc	4	7	49	41	pbcq	qp.c	opu	3.0
	Aberdeen ...	994.2	46	SW	5	b	1002.5	+10	45	-5	WSW	6	-	bq	3	-	54	44	c.bq	bq	bq	3.2
	Leith	1000.9	46	W	6	r	1007.1	+3	45	-7	W	4	W	bc	4	9	52	43	orq	r.oq	r.oqc	*
	Tynemouth ...	1002.9	48	SW	4	bmq	1009.8	+5	45	-5	W	5	.	bmq	4	.	54	44	bcq	bcq	bmq	*
	Spurn Head ...	1008.3	52	W	7	r	1015.7	+3	45	-1	W	6	-	bcq	5	2	53	42	oq.c	oqr	oq	0.0
	Yarmouth ...	1013.9	53	WSW	7	oq	1018.4	+5	43	-3	W	3	.	b	3	6	54	42	c	c	oqorb	0.0
	Clacton-on-Sea	1016.7	50	SSW	4	o	1021.2	+4	43	-4	W	3	-	b	2	2	52	42	c.o	og	oqrbc	0.1
	Nottingham ...	1010.0	53	SW	4	o	1018.8	*	42	-6	W	4	-	b	*	5	56	41	co	op	ro.c	0.1
	Benson (Oxon.) ...	1014.5	52	SSW	6	o	1023.6	+4	42	-6	WSW	4	-	b	*	3	54	42	o	od.o	orq.b	*
	Sth Farnborough	1016.3	51	SW	5	r	1022.5	+2	44	-4	W	3	-	b	*	3	53	42	or.o	or.o	r.ob	0.0
	London (Kew Obsy.)	1015.8	53	SW	6	o	1023.7	+2	45	-5	WSW	3	W	b	*	5	54	44	or.o	or.o	o.orq.b	0.0
NORTHERN EUROPE.	Spitsbergen ...	1013.5	-42	-	0	b	1015.7	+2	-43	-9	ESE	1	*	b	*	*	-36	-47				
	Vardö	1001.1	23	NW	7	bc	1006.7	+3	19	-9	NW	2	-	o	4	*	28	19				
	Bodö	1001.1	27	E	2	b	994.4	-3	30	-6	E	4	-	b	2	-	36	23				
	Christiansund	989.3	39	SSE	3	r	983.3	0	41	+2	-	0	-	o	4	3	43	37				
	Skudesnaes ..	994.0	43	S	4	o	989.0	-3	41	+2	WSW	9	-	r	6	13	43	39				
	Færder (X'iania Fjord)	997.2	27	S	5	f	991.9	-1	36	0	SW	5	-	c	4	3	37	27				
	The Scaw (Skagen)	1002.7	39	SSW	3	m	996.0	0	43	+4	W	4	-	o	4	3	45	37				
	Blaavands Huk	1007.5	45	WSW	6	o	1003.7	+2	43	+2	W	4	-	o	5	Trace	43	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013.9	48	SSW	7	o	1016.0	+5	45	0	W	7	-	b	6	5	48	45				
	C. Gris Nez ...	1019.0	50	SW	7	o	1023.3	+6	46	-1	WNW	7	*	b	6	25	50	46				
	La Hève	1023.1	48	SW	4	f	1025.9	*	46	+2	W	3	*	r	4	2	54	43				
	Brest (St. Mathieu)	1025.3	52	SW	4	o	1030.0	+2	50	-2	NW	1	*	b	5	2	54	48				
	Rochefort (Ile d'Aix)	1031.4	50	S	3	bc	1032.0	0	51	+1	WSW	3	*	c	*	-	54	50				
	Biarritz	1031.8	54	SSW	2	o	1033.5	+1	48	-2	-	0	*	bc	2	-	57	48				
	Paris	1027.5	52	SSW	3	o	1027.0	+3	50	+5	SW	3	-	o	*	-	52	45				
	Belfort	1032.2	41	W	4	bc	1030.3	*	42	+1	W	4	*	r	*	-	49	37				
	Lyons	1033.5	39	-	0	f	1034.3	*	35	-6	-	0	*	f	*	-	45	35				
	Nice	1029.5	47	-	0	o	1028.6	0	46	-5	S	1	*	o	2	-	59	46				
	Perpignan ...	1029.2	57	W	3	b	1032.0	+4	52	+2	NW	2	-	bc	*	.	63	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1032.2	59	SSE	1	bc	1035.5	+2	41	-7	SW	2	-	b	2	-	61	41				
	Madrid (8 a.m.)	1031.9	52	-	0	b	1035.5	+2	43	+4	SW	1	-	b	*	-	54	37				
	Lisbon (9 a.m.)																					
	Gibraltar	1030.8	57	E	4	m	1030.8	*	56	+9	E	4	*	o	3	-	58	55				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1020.2	*	S	6	m							*									
	Madeira (Funchal)	1026.9	63	ESE	2	b	1026.2	0	57	+3	E	2	-	b	2	-	64	55				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 4th & 5th Jan.
S.W. to N.W. 8 1pm to 7am.

Castlebay: 4th & 5th Jan.
S.W. 8 Noon to Early Morning.

Eskdalemuir: 4th Jan.
S. 8. 7am to 9am. Gust 28 m/s.

Malin Head. 4th & 5th Jan.
S.W. 8 2pm. to 5am.

Blacksod Point: 4th Jan.
S.S.W. 8 7am to midnight.

Falmouth: 4th Jan.
S.W. 8. 6pm.

Portland Bill: 4th Jan.
S.W. 8. 7pm to 10pm.

Dungeness. 4th Jan.
S.W. 8. 9pm to Midnight.

Nairn: 4th & 5th Jan.
W.S.W. 8. 11pm to 6am.

Aberdeen: 5th Jan.
Gust WSW 23 mps at 2am.

Kew. 4th Jan.
S.S.W. 8. 6.35 p.m.

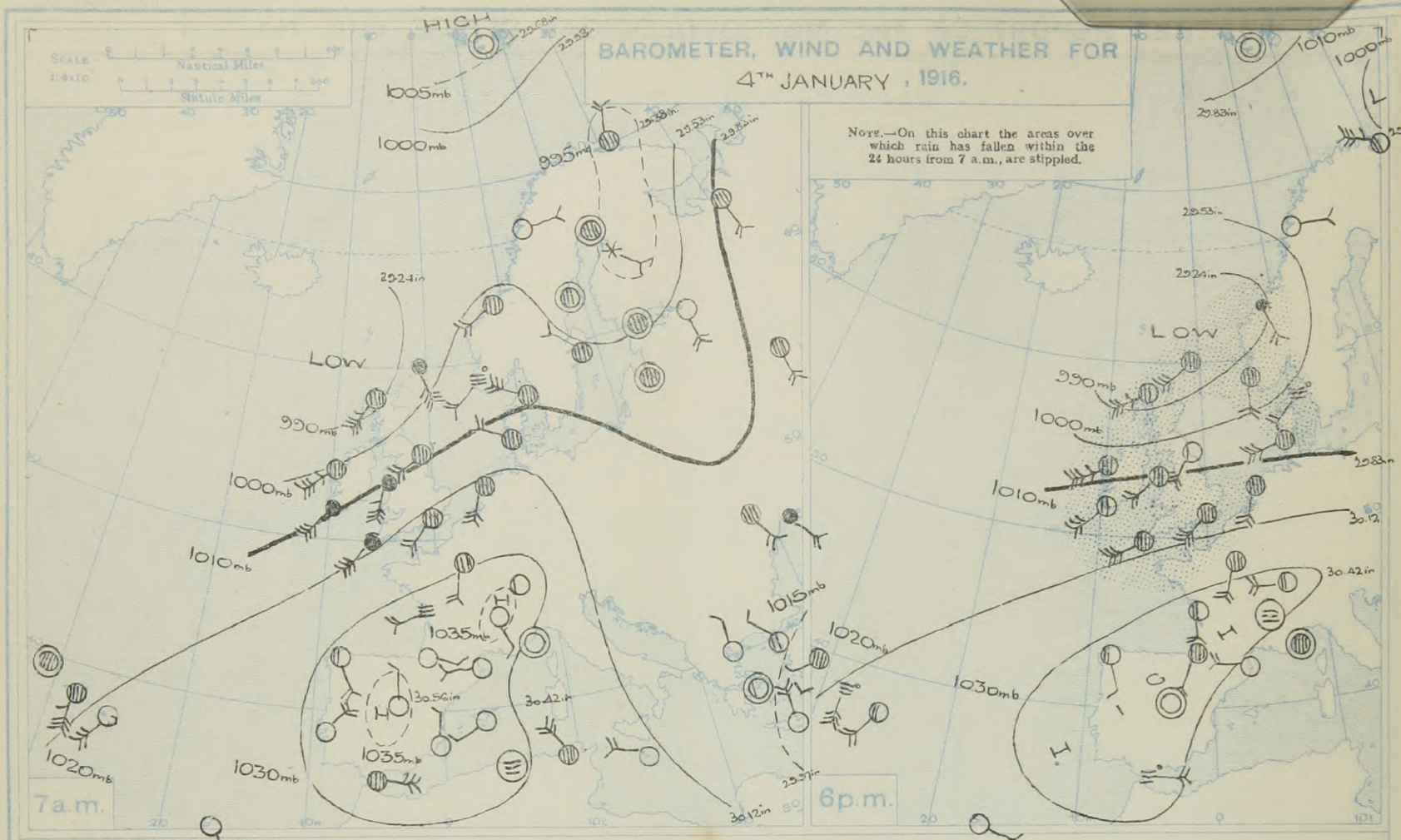
South Farnborough: 5th Jan. 7.55 a.m.

Pilot Balloon Ascent.

2,250 metres. WNW. 60 miles per hour.
2,000 " . WNW. 45 " " .
500 " . W by N. 35 " " .

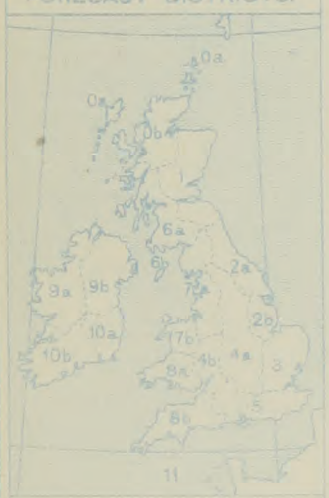
Correction: Lerwick wind at 7am. January 4th S.S.E. 7.

* 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.

Western Channel and Bay 11

0 a, b, 1 — Strong Westerly and North-Westerly winds, moderating; squally, showery and changeable, but improving; moderate temperature.

2 a, b — Fresh or strong Westerly wind, moderating; fair generally; moderate temperature.

3, 4 a, b, 5 — Moderate or fresh Westerly winds, decreasing in force; fine; moderate temperature.

6 a, b — Same as Nos. 0 and 1.

7 a, b — Same as No. 2.

8 a, b — Moderate or fresh Westerly wind, decreasing ab y fair generally; moderate temperature.

9 a, b — Moderate or fresh Westerly wind; fair, probab less fine again later; moderate temperature.

10 a, b — Light or moderate Westerly or South-Westerly w nds; fine first, probably less settled again later; moderate temperature.

11 — Light Westerly breezes; moderate sea; fair generally.

FURTHER OUTLOOK.

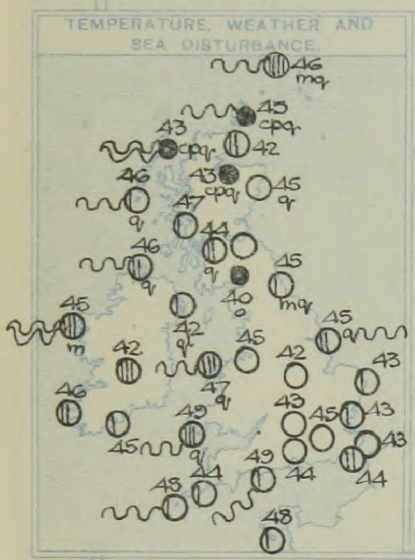
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 5TH JANUARY, 1916.

GENERAL INFERENCE.

The depression in the north will pass away eastward. Conditions favour the advance of further disturbances from the Atlantic.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough. High.

Scale 1 : 2·10⁷
Nautical Miles
Statute Miles

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

HIGH
LOW
LOW
HIGH
Barometer falling
Barometer rising
Barometer decidedly
Bar steady.
1015mb
1010mb
1005mb
1000mb
995mb
990mb
985mb
1020mb
1025mb
1030mb
1035mb
29.97in
29.83in
29.68in
29.53in
29.38in
29.24in
29.09in
30.12in
30.27in
30.42in
30.56in
20°
30°
40°
50°

Issue No. 19,767. DAILY WEATHER REPORT. Wednesday, 5th January, 1916.

REPORTS FOR YESTERDAY.

4th JANUARY.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	990.0	34	S	3	o	1001.7	+2	36	+9	S	4	-	o	*	2	36	27
Madrid	1036.7	43	-	o	b	1036.2	+2	39	o	N	1	-	b	*	-	45	39
Lisbon	1031.4	54	N	4	b	1031.4	-2	46	o	NNE	4	-	b	*	-	64	46
Horta	1016.6	*	SSW	7	f	1018.0	o	63	+3	S	7	*	o	6	2	64	61

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	13	50	43	bc	bc	0.0
	Banff	0.2	53	41	bc.b	b.d	3.5
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	54	41	or	or.o	0.0
	Skegness	1	54	42	o.bc	og.pr	0.4
Eng. N.W.	Morecambe	1	52	44	od	d.o	0.0
	Blackpool	1	54	45	o	or.o.c	0.0
	Southport	2	54	44	o.c.o	or.c.o	0.0
Midlands.	Buxton	11	51	39	ber	bcr	0.0
	Leamington Spa	-	54	43	o.c	o.c	0.0
	Malvern	-	54	40	o	o	0.0
	Ross-on-Wye	0.3	56	45	bc.or	or	0.0
Wales.	Llandudno	1	56	44	obq	c	0.2
	Rhyl	3	56	42	p	p.bc	0.7
	Colwyn Bay	4	57	47	bc	bcp	0.5
	Aberystwyth	3	53	49	o.c	or	0.0
	Tenby	4	51	47	bc or	r	0.0

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	0.1	54	43	c	c	0.0
	Felixstowe	-	52	43	om.bc	bc.o	0.1
	Walton-on-Naze	-	51	44	uc.u	opq	0.0
	Southend-on-Sea	-	52	43	o	o	0.0
England, S.E.	Margate	-	54	44	o	o	0.0
	Ramsgate	-	51	42	c	o.c	0.0
	Hastings	1	51	46	od	or	0.0
	Eastbourne	1	52	47	ode	ode	0.0
	Seaford	1	51	46	r	o	0.0
	Brighton	1	51	46	or.ooo.o	o	0.2
	Worthing	1	51	45	or	o	0.0
	Littlehampton	1	52	47	d.r.o	od.r	0.1
	Bognor	1	52	47	o	od	0.2
	Southsea	-	53	50	o	o	0.0
	Bournemouth	2	52	45	d	d	0.0
England, S.W.	Weymouth	0.4	53	49	oe.d	d.me	0.0
	Torquay	1	53	49	od	od	0.0
	Paignton	1	53	49	od	od	0.0
	Penzance	1.3	54	50	om	omr	0.0
	Newquay	*	53	48	o	o	0.0
	Ilfracombe	8	54	47	od	r	0.0
	Weston-super-Mare	0.3	54	43	b.bc.c	cr	0.1

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.)	82	87	0.0	54	42	35	6	o	o	ogor.b
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	86	0.0	55	44	36	5	me	me	uer.b
Camden Sq. (Brit. Rainfall)	85	86	0.0	55	43	38	5	o	om	*
Hampstead (Reservoir)	*	88	0.0	52	41	31	6	o	o	or.bc
Richmond Park	*	*								
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	85	0.0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
95 Joules	3.3 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.	2	55	48	44	oqp	qr.c	cq	*
Darwen to 9 p.m.	3	53	42	38	bc.or	ou	or	0.0
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	2	54	49	39	bc.om	om	om	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	54	46	35	b.c	o	oodq	*

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

5th & 6th January, 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	8.5 / 8.5	11.58 / 11.59	3.51 / 3.52
Greenwich	8.7 / 8.6	12.5 / 12.6	4.3 / 4.5
Wick	9.2 / 9.1	12.17 / 12.18	3.32 / 3.34
Valencia	8.50 / 8.30	12.46 / 12.47	4.42 / 4.43

NOTES ON YESTERDAY'S WEATHER.

Dull weather was experienced, with rain in most districts, the amounts being heavy in western Scotland. The wind was strong from West, reaching gale force 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.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 6 (Thursday, 6th January)

	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.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1001·9	45	WNW	7	omq	1003·3	-5	43	-3	SSW	4	-	om	4	0·4	46	40	omq	omq	om	*
	Deerness (Orkney)	1008·1	44	W	7	bcpq	1000·3	*	44	-1	S	5	-	r	5	6	46	41	cpq	c.bcpq	bc.c.or	0.5
	Stornoway ...	1014.0	45	W	5	bcpq	998·6	-5	52	+9	SW	7	-	opq	6	6	52	42	c.bcpq	bcpq	c.opq	1.4
	Castlebay (Barra Isd.)	1016·9	48	WSW	5	o	1003.6	-6	51	+5	WSW	6	-	op	6	4	51	43	bq.o	o	or.op	0.4
	Glasgow ...	1019.1	44	WSW	3	bc	1009.8	-5	50	+6	WSW	4	-	ogd	*	4	50	41	cq.hrp	bc.cm	bz.oq.p	1.6
	Eskdalemuir ...	1021·0	41	SW	3	bc	1012·1	-6	47	+7	SW	6	-	omc	*	4	47	37	opq.c	b.bc	bc.cor	?
	Malin Head ...	1019·7	45	SW	4	bcq	1007·6	-4	52	+6	SW	7	-	omq	6	2	52	43	bcmq.p	bcq	omqp	1.1
	Blacksod Point	1018·6	47	SSW	6	omr	1012·3	-4	50	+5	SSW	8	SW	omd	7	5	51	43	bcm	cmq	ofe	*
	Valencia ...	1023·5	50	SSE	4	m	1022·0	-2	53	+7	SSW	5	-	o	*	1	54	45	bc	c.od	b.o	1·0
	Roche's Point	1026·9	49	SW	3	o	1024·1	*	53	+8	SW	4	-	o	4	1	53	44	bc.c	o	od.f.ofm	*
	Birr Castle ...	1024·3	46	S	1	o	1019·3	*	53	+11	SW	4	-	o	*	4	54	40	op.bc	c.o	op	4.0
	Donaghadee ...	1021·5	43	WSW	4	bcm	1013·9	-1	53	+11	SW	4	-	ogm	3	2	53	42	bcmq	bcmq	omc.og	*
	Liverpool (Bidston)	1024·8	43	WSW	4	o	1017·3	-3	54	+9	SW	4	W	o	3	1	56	43	bc	bc	c.op	3.1
	Holyhead ...	1025·1	46	WSW	4	bc	1018·6	0	51	+4	WSW	5	-	ocm	4	1	51	45	c.bc	bc.c.bc	b.odm	3.0
	Pembroke (St. Ann's)	1027·5	49	W	4	b	1024.2	-1	50	+1	W	5	-	fdq	?	2	50	47	bc	bc	fdqp	2.9
	Scilly (St. Mary's)	1029·2	49	SW	3	bm	1028·2	+1	51	+3	WSW	5	-	fe	5	1	52	45	b	bm	bm.fe	3.5
	Falmouth ...	1029·7	45	WSW	2	b	1027·5	-1	51	+7	SW	6	-	o	*	1	52	43	b	b.bc.b	b.dq.oq	3.7
	Jersey (St. Aubin)	1031·3	48	W	2	c	1029·9	*	52	+4	W	5	-	ocm	4	Trace	52	44	b.bc	c.bc.b	bwqmc	3.3
	Portland Bill ...	1028·8	50	WSW	4	b	1025·3	-3	49	0	WSW	5	-	c	4	1	52	48	bc.c	b.bc	bc.or	*
	Dungeness ...	1027·9	46	W	3	b	1024·3	-7	49	+5	SW	5	-	op	4	? 0·1	49	44	c.o	o.c.b	b.op	*
	Dover	1028·4	45	SW	4	b	1024·4	-2	48	+5	SW	6	-	r	4	1	48	42	b.bc.cz	c.bcz	bc.c.r.d	0.5
	Wick	1010·3	43	WNW	4	bc	1000·9	-12	43	+1	S	4	-	r	4	5	45	40	bcq	bcq.p	bc.omd	*
	Nairn	1014·8	43	NNW	3	cqg	1002·0	*	50	+7	W	5	-	oqu	3	4	54	50	cq.or	qr.rs	cpq	0.8
	Aberdeen ...	1013.4	44	W	5	b	1005·8	-9	43	-2	S	4	-	o	2	1	46	41	bq	bq	bq.or	4.2
	Leith	1017.1	45	W	3	bc	1008·2	-4	52	+7	W	4	-	o	4	1	52	43	bc.or	cq.o.c	bc.r.o	*
	Tynemouth ...	1019.6	44	W	5	b	1012·3	?	46	+1	SW	3	-	omq	4	-	46	42	bcq	bcq	omp	*
	Spurn Head ...	1023·0	45	WNW	5	bcq	1016·4	-3	45	0	W	6	-	orq	5	1	45	42	bcq.o	o.bcq	bcoq	0.0
	Yarmouth ...	1025·2	43	WSW	3	bc	1020·8	-4	43	0	SW	3	-	od	3	1	46	40	c	bc	bc.op	0.0
	Clacton-on-Sea	1026·5	43	W	3	c	1022·5	-3	46	+3	SSW	3	-	o	2	0·3	46	42	bc.ogm	ogm.cg	c.b.c.or	0.0
	Nottingham ...	1025·5	45	W	2	b	1019·3	*	49	+7	W	4	W	o	*	1	49	41	b.bc.c	c.b	d.c.o	1·1
	Benson (Oxon.) ...	1027·8	41	SW	3	b	1024·0	-2	51	+9	WSW	4	-	o	*	-	52	41	bc.b	b	b.od	*
	Sth Farnborough	1028·1	43	W	1	b	1023·6	-3	50	+6	W	3	-	o	*	1	50	39	bc.o	bc.b	bor.o	1·5
	London (Kew Obsy.)	1028·5	45	SW	2	b	1023·2	-4	51	+6	WSW	4	-	o	*	0·2	51	43	b.bc.omc	c.bc.b	b.bc.omo	1·2
NORTHERN EUROPE.	Spitsbergen ...	1014·7	-35	NW	2	b	1014·4	+1	-35	+10	S	2	*	b	*	*	-35	-57				
	Vardö	1011·1	+18	-	0	b	1014·0	0	+18	-1	W	1	-	c	2	*	+19	+16				
	Bodö	999·9	25	E	5	b	1001·5	+1	23	-7	E	4	-	b	2	-	30	21				
	Christiansund	991·3	37	W	2	c	1002·1	+3	37	-4	-	0	-	c	3	Trace	43	36				
	Skudesnaes ..	997·3	43	NW	9	o	1006·6	+2	41	0	WNW	2	-	m	4	Trace	43	36				
	Færder (X'iania Fjord)	990·6	37	SW	6	bc	1003·0	+7	36	0	NE	1	-	b	4	-	37	36				
	The Scaw (Skagen)	997·1	41	W	7	m	1004·7	+11	41	-2	NW	5	-	bc	5	-	43	39				
	Blaavands Huk	1009·5	43	W	7	b	1013·1	+3	43	0	WNW	6	-	o	5	-	45	41				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1021·6	45	W	6	b	1021·2	-3	45	0	SW	3	-	o	4	-	46	45				
	C. Gris Nez ...	1027.0	47	WNW	6	b	1021·7	-5	47	+1	SSW	6	*	r	5	1	48	46				
	La Hève	1027·5	47	W	4	c	1028·7	*	47	+1	WSW	4	*	f	4	1	54	43				
	Brest (St. Mathieu)	1033·1	52	SSW	1	m	1033·1	+1	51	+1	W	4	*	m	5	1	54	48				
	Rochefort (Ile d'Aix)	1034·7	51	W	3	f	1035·4	0	50	-1	W	2	*	f	*	3	54	50				
	Biarritz	1035·8	54	-	0	b	1036·6	0	48	0	-	0	*	b	4	-	61	46				
	Paris	1031·1	43	SW	2	b	1028·4	-2	39	+11	S	2	-	o	*	Trace	52	36				
	Belfort	1032·8	43	WSW	6	r	1034·0	*	39	-5	W	4	*	f	*	5	44	39				
	Lyons	1034·6	43	W	?	r	1036·0	*	41	+6	E	?	*	f	*	-	45	35				
	Nice	1025·9	45	-	0	c	1025·9	+1	44	-2	-	0	*	bc	0	-	52	39				
	Perpignan ...	1031·7	57	NW	4	b	1032·7	0	52	0	NW	2	-	b	*	-	63	50				
	Sanguinaire ...	*	52	SW	2	o	*	*	54	0	SW	1	*	b	5	-	57	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1035·9	54	S	1	b	1036·7	-3	39	-2	E	1	-	b	3	-	55	36				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1031·7	57	N	3	b	1032·2	0	48	+2	NNE	4	-	b	?	-	59	?				
	Gibraltar	1031·8	56	E	4	b	1032·2	*	56	0	SE	5	*	b	4	-	58	55				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1023·9	-1	55	-2	NW	6	-	o	3	-	61	54				
	Azores (Horta, 8 a.m.)	1025·7	*	S	5	b							*									
	Madeira (Funchal)	1027·8	63	E	2	c	1028·4	0	57	0	E	2	-	b	2	-	63	57				

GALES.

Duration and Extreme Force in British Islands

Blacksod Point:-
6th. 7 a.m. SSW 8.

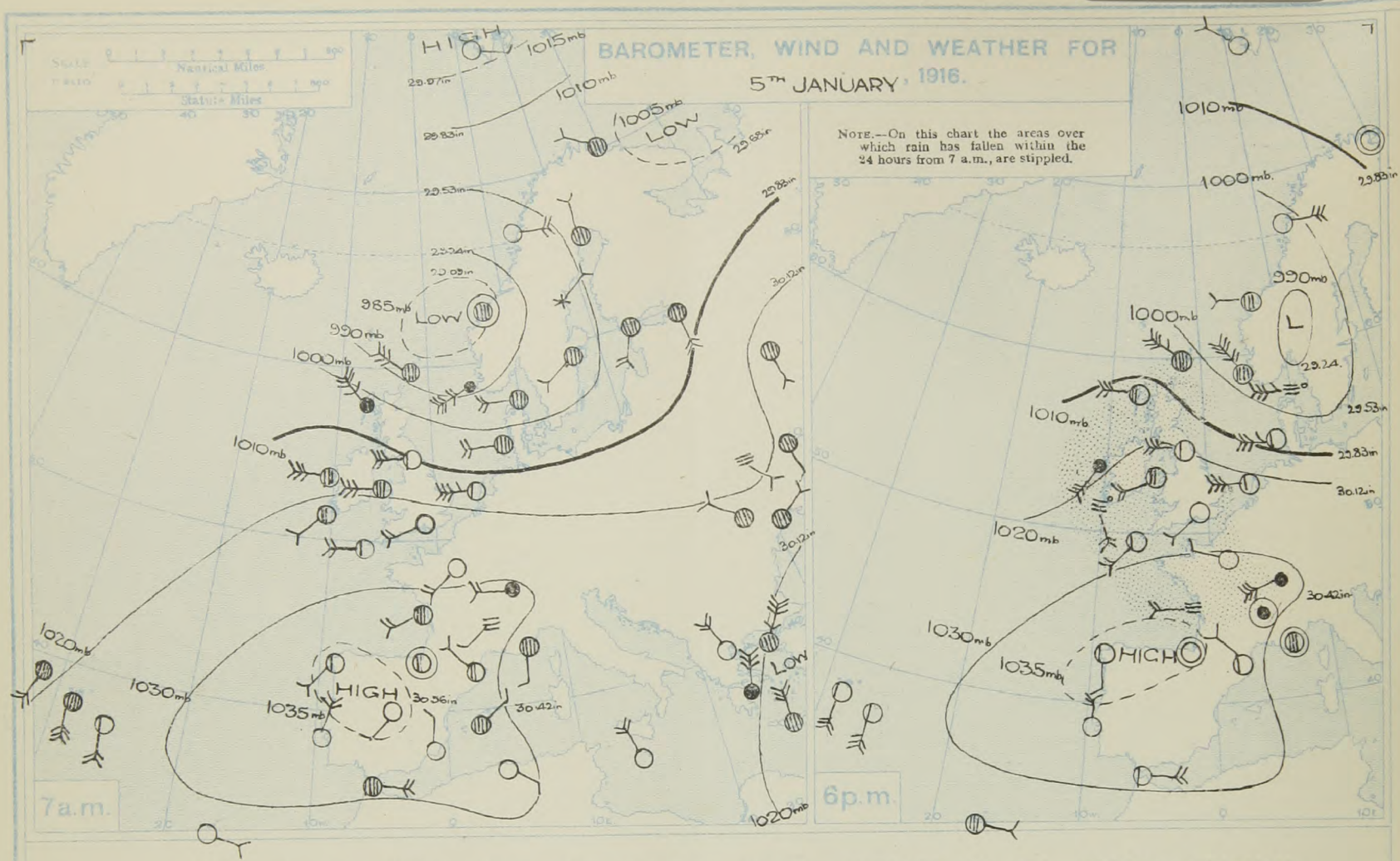
Aberdeen:-
5th. 10h to 14h. SwSbW 26 m.p.s

South Farnborough:- 8.5 a.m.

Pilot Balloon Ascent:-

Wind at 250 metres W by S 35 miles per hour.

* 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.

0 a, 0 b, 1 — High South-Westerly winds; dull and rainy; mild.

Strong South-Westerly winds; dull, some rain; mild.

2 a, 2 b, 3, 4 a, 4 b, 5 — Fresh winds between South-West and West, increasing a little; dull, some rain; mild.

6 a, 6 b — Strong or high South-Westerly winds; dull and misty, some rain; mild.

7 a, 7 b, 8 a, 8 b — Same as Nos. 2 to 5.

9 a, 9 b — Same as No. 6.

10 a, 10 b — Same as Nos. 2 to 5.

11 — Strong South-Westerly winds and rough sea; dull, some rain and fog; rather 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.

No Warnings Issued.

Western Channel and Bay

FURTHER OUTLOOK.

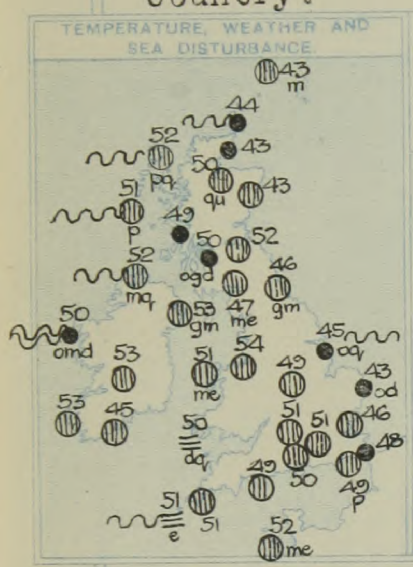
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 6TH JANUARY, 1916.

GENERAL INFERENCE.

The depression will continue to spread down from the north-west and will cause unsettled weather over the whole country.



EXPLANATION.

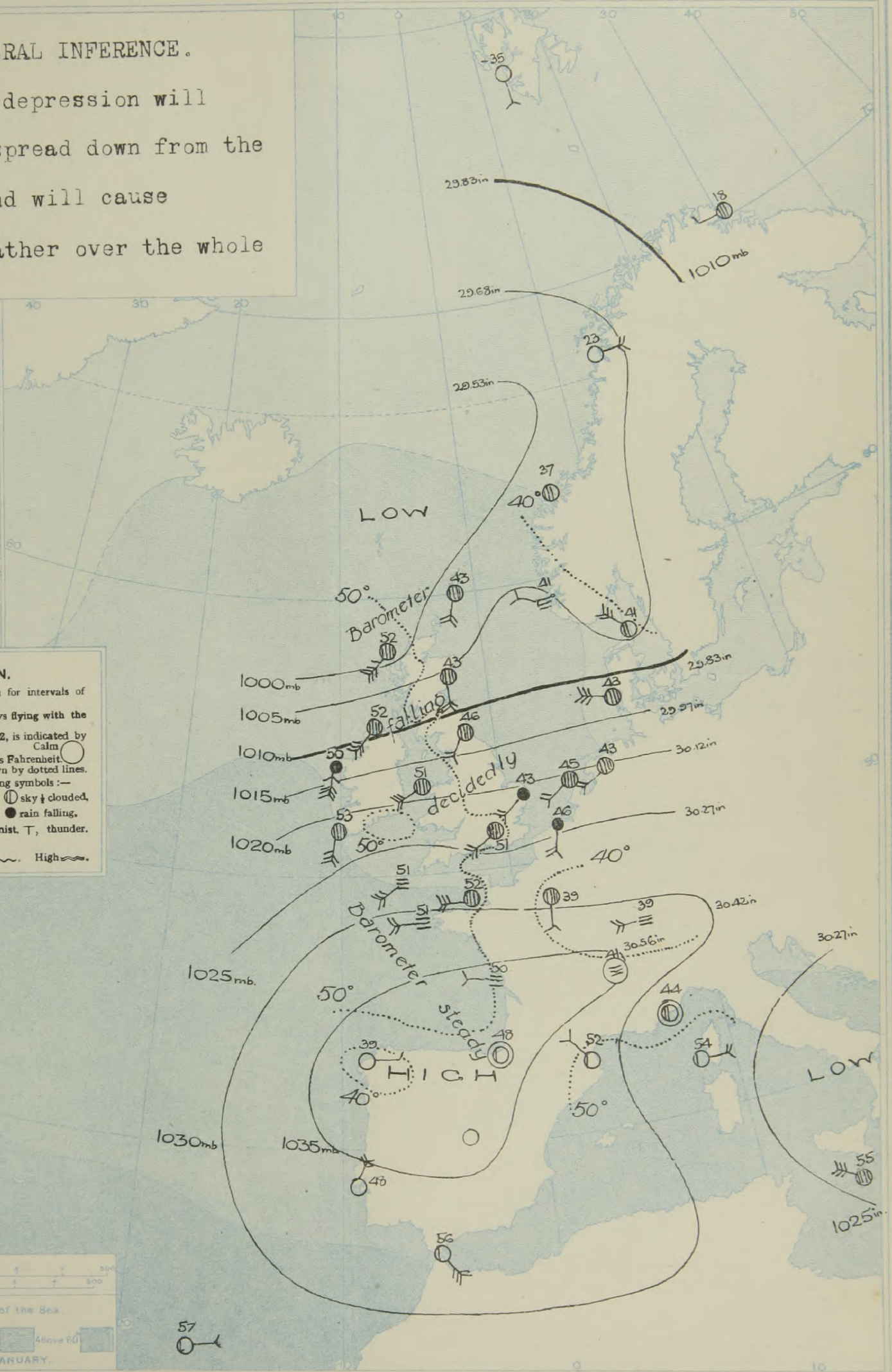
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◑ sky ¾ clouded. ◒ sky ⅞ 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 JANUARY.

Issue No. 19,768.

DAILY WEATHER REPORT.

6th January 1916.

REPORTS FOR YESTERDAY.

5th January.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	1008·0	34	SW	3	r	1007·8	-1	34	-2	S	4	-	0	*	-	36	34
Haparanda ...	1002·0	25	NNW	2	0	1002·1	0	18	-7	N	2	-	0	*	-	27	18
Hernösand ...	1002·4	28	-	0	f	990·7	-5	30	0	NE	2	-	5	*	6	34	25
Stockholm ...	1005·0	30	SW	2	b	992·8	-3	37	+3	SW	2	-	0	*	2	37	28
Wisby	1009·0	36	WSW	2	b	996·6	-5	37	+1	SW	4	-	0	*	2	39	34
Karlstad ...	1003·4	34	-	0	0	992·6	-3	36	-3	-	0	-	0	*	4	39	28
Sanguinaire..	*	56	W	3	b	*	*	54	-1	E	3	*	0	3	-	59	48
Lisbon	1029·7	55	N	4	b	1031·1	0	46	0	NNE	4	-	b	?	-	57	46
Malta	*	*	*	*	*	1028·3	+3	57	+2	NNW	4	-	b	3	-	59	55
Azores (Horta)..	.	.	.	.	.	1024.3	0	62	-1	S	6	*	0	5	6	63	61

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	47	44	b	bc	0·1
	Banff	2	45	42	c.b	b.or.bc	3.3
	St. Andrews	6	46	41	*	*	3.6
Eng. N.E.	Harrogate	-	45	41	o	o.c.bc	0·0
	Skegness	4	45	38	o.bc	bc.b	0·4
Eng. N.W.	Morecambe	-	46	44	bc	bc	1·2
	Blackpool	-	48	44	c.bc	o.c.o	1.5
	Southport	-	47	45	bc.c.o.c	bc.b	2.4
Midlands.	Buxton						
	Leamington Spa	6	49	41	c.bc	bc	2.6
	Malvern	-	48	43	b.bc	b	2.0
	Ross-on-Wye	6	50	42	b.bc	bc	2.8
Wales.	Llandudno	-	49	44	c	c.bc	2.0
	Rhyl	-	48	43	bc	bc	1·8
	Colwyn Bay	-	47	45	bc	bc	1·9
	Aberystwyth	1	49	46	r.o.c	c.bc	3·5
	Tenby	2	51	45	bc	bc	2·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	7	48	42	c	c.bc	0·2
	Felixstowe	5	47	42	c.bc	bc	0.1
	Walton-on-Naze						
	Southend-on-Sea	3	47	40	bz.c.o	o.c.bz	0·4
England, S.E.	Margate	2	49	42	c	c	0.0
	Ramsgate	2	46	39	cz	z	0·4
	Hastings	3	51	42	or.b.bc	bc	2.1
	Eastbourne	3		45	bcz	bcz	1·2
	Seaford	2	50	44	o.bc	o b	1.9
	Brighton	4	49	43	bc	bc.b	1.5
	Worthing	4	49	41	bc	bc	1.5
	Littlehampton	2	50	40	o	b.bc	2.0
	Bognor	3	50	44	b.o.bc	b	2.0
	Southsea	3	50	45	o	bc	1·6
	Bournemouth	-	51	42	bc	bc	1·8
England, S.W.	Weymouth...	2	51	47	bc	bc	1·6
	Torquay	3	53	44	o.c	c.bc.b	3.5
	Paignton	3	52	45	bc	b	3·1
	Penzance	3	52	43	o·c	bc.c	4.0
	Newquay	9	51	44	b	b	4.1
	Ilfracombe	5	51	46	o	o	0·6
	Weston-super-Mare ...	9	50	43	bc.b	bc.c	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.) ...	75	91	0.5	52	43	36	–	c.o	c.bc	b.oro
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	90	0·3	53	43	36	0·2	bc	bc	bc.doe
Camden Sq. (Brit. Rainfall)	78	91	0·2	52	43	38	0·1	bcm.c	c.bc	*
Hampstead (Reservoir) ...	*	97	0·5	50	41	33	0·3	o.bc	or	o
Richmond Park ...	*	*								
Kew. (See front page.)	*	*	1·2							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	90	0·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
201 Joules	7.0 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.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	1	54	45	38	or.bc	bc.b	b	3·2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	5	54	44	35	odq.b	bcm.c	bc.cb	*

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

6th & 7th January, 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8. 5	11. 53	3. 51
	8. 4	11. 59	3. 54
Greenwich	8. 6	12. 6	4. 5
	8. 6	12. 6	4. 6
Wick	9. 1	12.18	3.34
	9. 0	12.18	3.36
Valencia	8.50	12.47	4.43
	8.49	12.47	4.44

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or above at many stations. Some rain was measured generally but the amounts were not large. Duration of bright sunshine was variable, up to 4·2 hours at Aberdeen.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 7 { Friday 7th January.

	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 ...	991·0	44	SW	5	rq	981·4	-4	45	+2	SW	5	-	omq	4	15	47	39	orq	c.orq	c.omq	*
	Deerness (Orkney)	993·5	45	WSW	5	cp	991·0	*	43	-1	SW	7	-	opq	2	9	47	43	r.oc	cp.c	pq.o	0·0
	Stornoway ...	995·5	47	SW	7	cpq	988·4	-1	45	-7	WNW	8	-	bcq	6	8	52	43	o.c.opq	ocpq	bcpq	0·0
	Castlebay (Barra Isd.)	1001·1	49	WSW	6	o	995·8	-2	47	-4	W	6	-	r	6	2	51	44	op.o	o	opr	0·0
	Glasgow ...	1005·9	48	WSW	5	o	998·0	-2	44	-6	W	5	NW	b	*	15	54	43	opoqr	rop.oq	op.opb	0·0
	Eskdalemuir ...	1009·0	47	WSW	5	bc	1000·0	-4	43	-4	WSW	5	-	orq	*	11	50	43	odmor	omq.c	or.oq	0·0
	Malin Head ...	1005·4	48	SW	8	omq	1001·3	-5	46	-6	WNW	6	W	cq	7	2	50	42	cmqp	omq	cq	0·0
	Blacksod Point	1011·6	49	SSW	7	omq	1008·5	+1	45	-5	W	6	W	bcqp	6	2	51	42	omd	cmq	ombcp	*
	Valencia ...	1018·8	53	SW	5	m	1015·4	+1	49	-4	W	5	W	c	*	5	54	46	omd	omd	oq.cp	0·0
	Roche's Point	1021·1	52	WSW	4	o	1014·4	*	48	-5	W	3	-	o	4	1	54	47	d.omo	od.oe	od	*
	Birr Castle ...	1014·9	58	SW	5	r	1009·2	*	46	-7	W	4	-	o	*	8	56	45	or	or.d	or.op	0·0
	Donaghadee ...	1007·3	51	WNW	7	omqp	1002·3	-3	46	-7	W	5	W	bomqp	4	0·2	55	45	bomq	omqp	bomq	*
	Liverpool (Bidston)	1014·7	53	SSW	3	o	1005·3	-3	46	-8	WSW	5	W	odq	4	9	58	44	o	bc	orq	1·6
	Holyhead ...	1015·0	51	SW	6	of	1006·9	-2	48	-3	W	6	-	oq	5	4	51	47	o.ce.f	ofe.o	of.dr.o	0·0
	Pembroke (St. Ann's)	1020·1	49	W	6	oqm	1011·7	+2	48	-2	W	5	-	oqdm	6	2	50	48	f.dq	fq	oqdm	0·0
	Scilly (St. Mary's)	1025·9	50	W	6	ome	1015·4	-5	51	0	WSW	7	-	omr	6	1	51	46	fe.ome	om	ome	0·0
	Falmouth ...	1025·9	50	SW	7	o	1015·4	-6	51	0	SW	6	-	r	*	1	51	49	dmq	oq	b.oq.dq	0·0
	Jersey (St. Aubin)	1028·6	52	W	4	o	1018·9	*	52	0	WSW	5	-	o	4	-	55	48	oem.c	c.b.o	b.o	3·2
	Portland Bill ...	1024·5	51	WSW	5	o	1014·1	-8	51	+2	WSW	5	W	o	5	0·2	52	50	c.om	om	oc.c	*
	Dungeness ...	1020·3	49	WSW	5	oq	1012·2	-8	49	0	WSW	7	-	o	6	0·2	50	49	oq	oq	od.o	*
	Dover	1020·5	51	WSW	6	b	1012·9	-4	48	0	SW	6	SW	od	6	0·2	56	47	dm.o	bc.b	c.od	1·0
	Wick	996·2	42	WSW	4	bc	984·4	-12	42	-1	W	4	-	bc	3	4	48	39	omd	boqp	bcqp	*
	Nairn	998·8	45	W	4	oqm	989·5	*	43	-7	W	6	-	orq	4	12	51	41	r.c	p.rq	m.cq	0·0
	Aberdeen ...	999·5	49	WSW	5	c	990·0	-6	43	0	WSW	4	-	b	2	-	55	43	o	o.c	ab	0·1
	Leith	1003·7	50	W	6	c	997·0	-2	44	-8	W	3	W	c	5	5	56	44	orq	qr.o.c	cq.rs	*
	Tynemouth ...	1004·2	55	W	5	bomqd	999·0	-?	47	+1	WNW	6	-	bq	4	1	60	46	cmq	cmq	bq	*
	Spurn Head ...	1010·3	52	W	6	o	1004·4	-2	47	+2	WSW	6	-	cqr	5	1	53	44	c.oq	oq	o.cqr	0·0
	Yarmouth ...	1015·4	53	W	4	bc	1007·2	-6	51	+8	WSW	7	-	cq	4	-	55	43	od.om	bc	a.bc	0·3
	Clacton-on-Sea	1018·8	53	W	3	o	1010·0	-4	48	+2	WSW	3	W	o	3	-	54	42	ogm	ogm	ogmo	0·0
	Nottingham ...	1014·3	55	W	4	o	1005·5	*	46	-1	WNW	4	W	r	*	1	56	48	o	o.c	o	0·0
	Benson (Oxon.) ...	1020·6	52	WSW	4	o	1010·2	-7	51	0	SW	5	-	o	*	?	53	49	o	o	og	*
	Sth Farnborough	1021·1	53	W	5	o	1011·1	-7	51	+1	W	5	-	o	*	-	55	48	o	o	o	0·0
	London (Kew Obsy.)	1020·8	54	WSW	3	c	1010·8	-5	52	+1	SW	5	-	o	*	Trace	55	50	o	o	o	0·0
NORTHERN EUROPE.	Spitsbergen ...						1012·0	+2	-36	-1	SE	2	*	b	*	*	-35	-44				
	Vardö	1013·7	19	SW	1	b	1012·6	0	21	+3	E	6	-	o	4	*	21	12				
	Bodö	997·0	25	E	4	b	990·3	0	25	+2	E	4	-	c	2	-	25	21				
	Christiansund	986·9	37	SE	1	o	980·7	-3	41	+4	-	0	-	o	3	6	37	36				
	Skudesnaes ..	991·8	43	SW	4	o	987·0	-5	43	+2	W	5	-	o	5	8	43	39				
	Færder (X'tania Fjord)	995·1	34	S	2	r	987·8	-3	36	0	WSW	2	-	o	2	2	36	32				
	The Scaw (Skagen)	999·5	37	SW	4	r	992·3	-1	41	0	WNW	4	-	o	4	7	43	36				
	Blaavands Huk	1002·3	43	WSW	3	r	997·9	-5	43	0	WNW	4	-	b	4	6	45	37				
	Haparanda ...	1003·1	16	NNE	4	o	996·4	-2	14	-7	NNE	2	-	o	*	1	21	10				
	Hernösand ...	1002·0	18	N	2	o	994·6	-1	19	-2	N	2	-	o	*	2	30	19				
	Stockholm ...	1002·9	27	NW	2	o	990·0	-3	32	+2	ESE	2	-	s	*	3	32	27				
	Wisby	1003·9	32	N	2	o	988·3	-3	34	-2	S	2	-	o	3	7	37	30				
	Karlstad	1000·3	32	-	0	o	989·3	0	34	+2	-	0	-	o	*	9	34	30				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1012·3	48	SW	5	c	1005·0	-7	48	+3	SW	7	-	o	5	Trace	50	43				
	C. Gris Nez ...	1021·2	50	SW	6	o	1013·6	-6	50	+3	SW	6	*	o	5	1	50	44				
	La Hève	1026·6	47	WSW	8	o	1020·4	*	46	-1	WSW	6	*	o	6	1	54	43				
	Brest (St. Mathieu)	1030·7	50	WSW	4	o	1024·0	-4	52	+1	W	5	*	o	4	-	52	50				
	Rochefort (Ile d'Aix)	1034·1	50	W	8	c	1027·9	-3	48	-2	W	3	*	o	*	Trace	54	46				
	Biarritz	1034·6	50	ENE	2	b	1028·6	-1	48	0	SSW	3	*	o	3	-	57	43				
	Paris	1028·0	52	SSW	2	bc	1021·3	-3	50	+11	SW	4	-	o	*	2	54	39				
	Belfort	1031·0	41	WSW	7	r	1024·3	*	48	+9	W	6	*	r	*	2	48	41				
	Lyons	1034·0	45	-	0	o	1028·2	*	46	+5	-	0	*	f	*	1	47	41				
	Nice	1022·9	50	-	0	b	1021·6	0	43	-1	-	0	*	b	2	-	64	43				
	Perpignan ...	1030·9	57	NW	4	b	1025·9	-3	50	-2	W	1	-	b	*	-	64	46				
	Sanguinaire ...	*	54	SW	2	m	*	*	53	-1	SE	2	*	m	4	-	57	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1035·4	54	NNW	3	b	1032·9	-2	36	-3	SSW	2	-	f	3	-	54	36				
	Madrid (8 a.m.)	1032·9	55	NNW	1	b	1032·3	-2	39	+3	N	1	-	b	*	-	57	36				
	Lisbon (9 a.m.)																					
	Gibraltar	1020·8	57	E	8	b	1028·4	*	57	+1	E	6	*	o	4	-	58	56				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1021·9	+1	55	0	WNW	4	-	b	3	-	59	55				
	Azores (Horta, 8 a.m.)	1029·3	*	SSE	4	b	1032·4	0	55	-5	-	0	*	b	2	-	64	55				
	Madeira (Funchal)	1027·1	63	NE	2	b	1026·9	0	59	+2	N	2	-	o	2	-	64	57				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 4th Jan.
N.S.W. 8 at 7 a.m.

Blacksod Point: 6th Jan.
S.S.W. 8 5 am to 2 pm.

Donaghadee: 6th Jan.
W.N.W. 8. 2 pm to 5 pm.

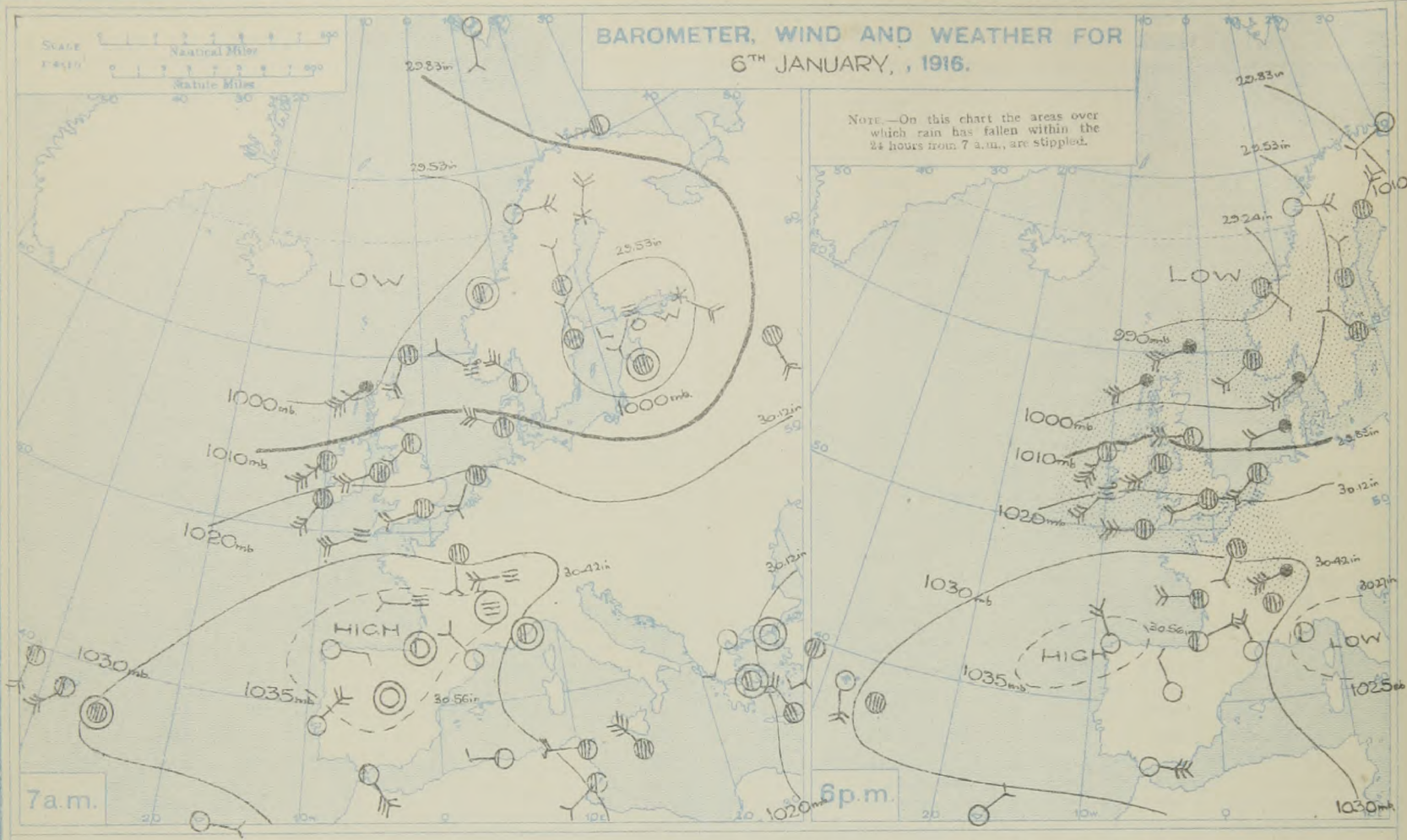
Eskdalemuir: 7th Jan.
Gust W.S.W. 22 mps at 6 am

Malin Head 6th Jan.
W.S.W. 8 10 am to 8 pm.
W.S.W. 9 at 10 a.m.

South Farnborough: 7th January.

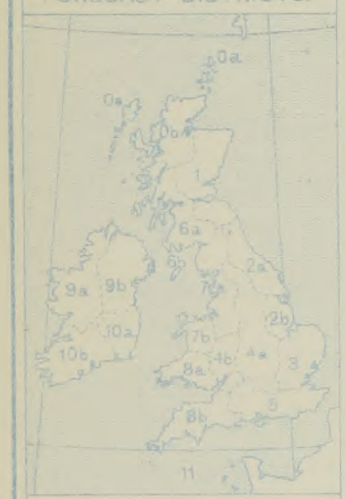
Pilot Balloon Ascent at 7.50 a.m.

200 metres. W.S.W. 20 miles per hour.



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.

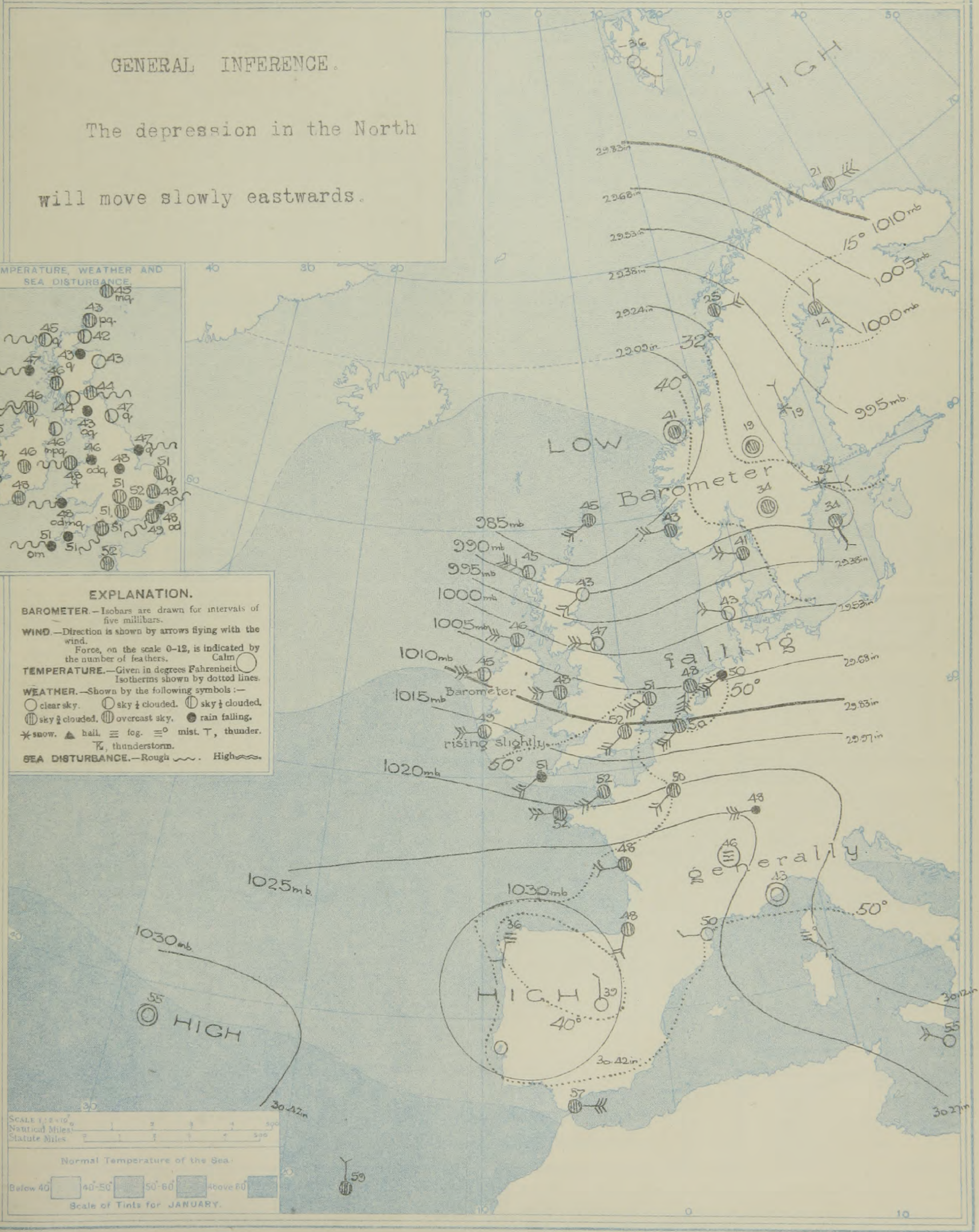
0 a, b, 1	Strong or high Westerly winds, decreasing and veering later; some rain, fair intervals; temperature normal.
2 a, b, 3, 4 a, b, 5, 6 a, b, 7 a, b, 8 a, b, 9 a, b, 10 a, b	Strong Westerly winds, beginning to decrease this evening or to-night; dull, some rain becoming fairer; mild.
Western Channel and Bay 11	Strong or high Westerly winds, then decreasing; rough sea; dull, occasional rain, then fairer; mild.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 7TH JANUARY, 1916.



Issue No. 19769

DAILY WEATHER REPORT.

Friday, 7th January, 1916.

REPORTS FOR YESTERDAY.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda ...	1000.4	19	NNE	6	5	1002.3	+1	21	+3	NNE	4	-	5	*	4	23	18
Hernosand ...	992.6	27	NE	2	5	1002.0	+4	21	-9	N	2	-	c	*	4	32	21
Stockholm ...	993.0	37	SW	2	0	999.8	+5	30	-7	N	2	-	0	*	1	37	30
Visby	995.9	39	SW	4	0	996.0	+4	36	-1	WSW	2	-	r	3	1	39	36
Karlstad	991.7	36	-	0	b	1002.3	+8	32	-4	-	0	-	b	*	-	37	30
Madrid	1032.8	57	N	1	b	1038.6	+2	36	-7	-	0	-	b	*	-	59	36
Horta	1025.7	*	3	5	b	1028.7	0	60	-2	SSW	5	*	bc	4	-	64	59

6th January

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	51	43	oe	o	0.0
	Banff	3	54	41	cr	r.bc	0.0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	54	41	oe.o	o.c.bc	0.0
	Skegness	1	55	40	o.c	ogu	0.0
Eng. N.W.	Morecambe	1	50	42	c.o	c.od	0.0
	Blackpool	4	51	44	o	oe.o.od	0.0
	Southport	3	54	43	o.c.o	o	0.2
Midlands.	Buxton						
	Leamington Spa	1	55	41	c.bc	c.bc	0.0
	Malvern	1	55	44	bc	bc	0.5
	Ross-on-Wye	-	54	45	bcm	bc	0.7
Wales.	Llandudno	-	56	46	c.cq	cq.c	0.2
	Rhyl	-	63	42	b.bc	b.bc	1.2
	Colwyn Bay	-	62	45	c	bc	1.0
	Aberystwyth	3	51	47	r.o.c	c.o	0.0
	Tenby	3	51	45	bc.od	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	5	55	41	c	c	0.0
	Felixstowe	1	55	42	om.bc	bc	0.2
	Walton-on-Naze	1	54	41	bc.ac	o.c	0.0
	Southend-on-Sea	0.3	53	41	o	o.bc	0.1
England, S.E.	Margate	1	57	44	o	o	0.0
	Ramsgate	1	55	40	cg	cg	0.1
	Hastings	3	51	44	om	o	0.0
	Eastbourne	1	51	46	ac	o.cm	0.0
	Seaford	1	49	46	r.o	o	0.0
	Brighton	1	50	46	om.o	o.om	0.0
	Worthing	1	50	44	o	o	0.0
	Littlehampton	4	51	45	o	o	0.0
	Bognor	2	51	46	o	o	0.0
	Southsea	1	53	45	o	o	0.0
	Bournemouth	1	53	45	o	o	0.0
England, S.W.	Weymouth...	0.3	53	46	c.o	o	0.0
	Torquay	-	54	45	o.c	c.o	0.7
	Paignton	1	54	39	o	o	0.0
	Penzance	1	52	46	o	o	0.0
	Newquay	*	50	43	odm	odm	0.0
	Ilfracombe	3	51	45	od	od	0.0
	Weston-super-Mare ...	6	50	43	m.o.c	r.c	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.) ...	85	94	0.0	55	49	48	-	o	o.c	o.odo
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	89	0.0	56	50	48	-	me	me	me.od
Camden Sq. (Brit. Rainfall)	85	88	0.0	56	49	47	Trace	o	o	*
Hampstead (Reservoir) ...	*	91	0.0	53	46	43	Trace	oe	od	od
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.)	87	91	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
99 Joules	3.4 Milliwatts.	8 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.	5	55	41	36	c.ou	ou	our	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	56	44	36	b.o	o	o	*

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

7th & 8th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.4 / 8.4	11.59 / 12.0	3.54 / 3.56
Greenwich	8.6 / 8.6	12.6 / 12.7	4.6 / 4.8
Wick	9.0 / 9.0	12.18 / 12.19	3.36 / 3.38
Valencia	8.49 / 8.49	12.47 / 12.48	4.44 / 4.46

NOTES ON YESTERDAY'S WEATHER.

Temperature was very mild with maxima ranging up to 63° at Rhyl. The day was generally dull with some fog in the West. Fairly heavy rain fell 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; z. hoar frost; z. dust-haze, or smoke.

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

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

§ 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. 8 (Saturday, 8th January)

	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. °F. Dry Bulb.	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. °F. Max.	Temp. °F. Min.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	988·4	43	NNW	5	om	1010·6	+5	37	-8	NW	4	NW	bc	4	7	45	36	cmp	opq	bcpq	*
	Deerness (Orkney)	992·2	42	NW	7	opq	1012·2	*	37	-6	NW	5	-	cp	4	4	46	37	op.cq	cpq	cp	0·0
	Stornoway ...	1002·1	42	NW	7	bcpq	1018·3	+4	40	-5	NNW	3	-	bcq	3	2	46	40	bcpq	bcpq	bcpq	1·6
	Castlebay (Barra Isd.)	1006·6	45	WNW	5	b	1019·4	+3	44	-3	WNW	3	-	op	3	5	47	41	r.oc.o	o.cb	bc.op	0·4
	Glasgow ...	1002·4	41	W	4	bq	1017·9	+5	40	-4	W	2	NW	bq	*	1	45	39	c.op.cq	cp.bc	bq.b	0·9
	Eskdalemuir ...	1002·3	39	WNW	7	bc	1017·2	+5	37	-6	WNW	5	-	bc	*	1	44	35	qr.cpq	bcp.bc	bc.b	1·3
	Malin Head ...	1007·8	45	NW	9	bcqp	1020·3	+5	45	-1	NW	5	NW	bcp	6	2	47	40	bcmq	bcqp	bcp	1·3
	Blacksod Point	1016·7	45	NW	8	bcqp	1025·0	0	45	0	NW	3	NW	ome	5	1	46	40	bcqps	bcqp	bcqp	*
	Valencia ...	1023·0	48	W	6	bc	1029·2	+1	48	-1	W	3	-	od	*	1	49	44	cpq	bcqp	b.opbc	4·1
	Roche's Point	1021·0	43	NW	3	b	1029·0	*	44	-4	W	3	W	o	3	1	49	43	cp.b	cpq.b	bq.o	*
	Birr Castle ...	1017·1	42	W	2	c	1026·5	*	43	-3	SW	2	-	o	*	2	46	39	c	c	cp.o	4·3
	Donaghadee ...	1007·6	42	WNW	6	bcmqp	1020·2	+5	42	-4	NW	4	NW	bcmqp	4	1	47	40	bcmqp	bcmpq	bcmqp	*
	Liverpool (Bidston)	1007·5	44	WSW	7	bq	1019·8	+5	44	-2	W	6	-	bcq	5	1	47	42	o d	bcq	bcq	2·5
	Holyhead ...	1011·5	45	WNW	8	bcq	1022·3	+3	45	-3	WNW	6	-	cq	6	Trace	48	43	oc.bc.c	op.cpq	bc.b-o	2·4
	Pembroke (St. Ann's)	1016·8	47	WNW	4	bcqp	1025·5	+2	45	-3	NW	6	NW	bq	5	0·2	48	44	bcq	bcq	bq	3·5
	Scilly (St. Mary's)	1021·2	48	WNW	7	bcq	1028·2	+2	47	-4	NW	6	NW	cq	6	1	51	45	cq	bcq	bcq.c	4·1
	Falmouth ...	1020·1	47	WNW	6	bq	1027·2	+3	45	-6	NW	4	-	b	*	3	51	42	dq.c	bcqp	b.opqb	2·4
	Jersey (St. Aubin)	1018·5	48	W	5	b	1024·7	*	46	-6	WNW	4	-	b	4	1	53	45	oq.dr	r.cp.b	bqpb	0·0
	Portland Bill ...	1014·5	48	WNW	6	bc	1021·9	+4	46	-5	NW	6	NW	bc	5	1	52	46	cbc	bcp	bcpq	*
	Dungeness ...	1010·3	44	W	4	b	1015·2	+3	40	-9	WNW	4	W	b	4	1	50	38	opd	oq.bc	b.bc	*
	Dover	1010·6	44	SW	5	b	1016·8	+4	41	-7	NW	6	-	b	3	2	51	39	z.od	r.o.cbc	b	0·0
	Wick	993·6	42	NNW	3	r	1013·5	+7	38	-4	NNW	4	-	bc	4	7	45	37	bcqp	bcqp	bcqp	*
	Nairn	997·9	42	WNW	8	oqu	1016·7	*	39	-4	NW	4	-	cq	3	2	45	36	q.bcc	cuq.d	cq.q	0·3
	Aberdeen ...	994·5	42	WNW	7	bqp	1014·2	+6	39	-4	WNW	4	-	c	3	3	47	38	bq	bqp	bcp	2·8
	Leith	999·2	44	WNW	3	b	1017·7	+3	44	0	WSW	1	SW	bc	4	-	47	38	b	b	b	*
	Tynemouth ...	999·9	43	WNW	5	bq	1015·0	?	40	-7	NNW	5	-	c	4	-	47	39	bq	bq	bcq	*
	Spurn Head ...	1002·4	45	NW	7	bcq	1014·1	+2	42	-5	NNW	7	-	bcq	6	0·1	48	40	cq	bcq	r.bc	0·5
	Yarmouth ...	1005·7	44	NW	5	bcq	1013·5	+5	41	-10	NW	4	-	bc	4	3	52	40	cpq	cq	bcqr	0·0
	Clacton-on-Sea	1008·2	44	WNW	3	bc	1016·2	+4	41	-7	WNW	3	-	b	2	0·3	51	40	odp	o.cp.bc	bc.b	0·0
	Nottingham ...	1007·8	46	W	4	c	1017·9	*	44	-4	W	4	W	bc	*	1	49	43	op.cb	bc.c	bcb	1·1
	Benson (Oxon.) ...	1011·7	43	W	4	b	1020·4	+5	39	-12	WNW	2	N	bc	*	1	51	39	odq	r.bcb	b.bc	*
	Sth Farnborough	1011·9	43	W	2	b	1019·2	+3	41	-10	NW	3	N	b	*	1	52	39	or.o	op.b	b.bcb	0·6
	London (Kew Obsy.)	1011·6	45	W	3	b	1019·3	+4	41	-11	WNW	3	N	b	*	1	53	40	o	o.cuop.b	b	0·4
NORTHERN EUROPE.	Spitsbergen ...	1014·3	-36	-	0	b	1015·1	+2	-9	+27	SE	1	*	o	*	*	-9	-42				
	Vardö	1006·9	21	ESE	6	s	1007·3	0	21	0	E	5	-	s	4	*	23	12				
	Bodö	991·5	25	E	5	o	999·3	+4	21	-4	E	4	-	b	2	-	25	19				
	Christiansund	983·8	36	-	0	s	999·4	+8	34	-7	NE	2	-	s	3	30	41	34				
	Skudesnaes ..	977·6	39	S	2	o	996·4	+8	39	-4	N	10	-	c	4	8	48	32				
	Færder (X'iania Fjord)	983·1	32	NE	1	f	992·4	+7	32	-4	N	4	-	o	2	-	36	30				
	The Scaw (Skagen)	984·6	?	W	2	r	989·5	+8	36	-5	ENE	4	-	r	4	5	43	36				
	Blaavands Huk	990·3	43	W	4	o	992·4	+5	41	-2	NW	6	-	o	5	Trace	45	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1000·6	46	W	7	c	1007·1	+4	45	-3	NW	7	-	c	7	2	48	45				
	C. Gris Nez ...	1011·3	47	WNW	6	b	1016·3	+3	43	-7	NW	6	*	b	5	3	50	43				
	La Hève	1015·3	48	WSW	6	o	1021·0	*	45	-1	NNW	6	*	o	7	1	52	43				
	Brest (St. Mathieu)	1024·2	50	NW	5	c	1024·5	+3	46	-6	NNW	5	*	b	4	2	52	41				
	Rochefort (Ile d'Aix)	1024·4	50	W	6	o	1027·1	+3	47	-1	NW	6	*	b	*	Trace	52	46				
	Biarritz	1029·3	50	WNW	3	o	1029·2	0	48	0	N	3	*	bc	4	5	52	48				
	Paris	1015·5	48	W	5	r	1019·4	+2	41	-9	W	3	-	b	*	2	53	39				
	Belfort	1018·7	43	W	7	o	1017·7	*	37	-11	W	7	*	r	*	2	50	37				
	Lyons	1023·3	46	NNW	5	o	1022·0	*	40	-6	WNW	2	*	c	*	2	53	38				
	Nice	1017·3	48	-	0	o	1010·3	-2	42	-1	-	0	*	b	2	-	54	41				
	Perpignan ...	1023·3	52	W	2	b	1023·3	+3	49	-1	NW	4	NW	o	*	-	66	46				
	Sanguinaire ...	*	56	SSW	4	m	*	*	52	-1	NW	8	*	m	6	.	59	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031·9	50	S	1	o	1035·4	+2	46	+10	SSW	2	-	f	3	1	50	36				
	Madrid (8 a.m.)	1026·0	54	-	0	b	1029·2	+2	39	0	NE	2	.	b	*	-	55	37				
	Lisbon (9 a.m.)																					
	Gibraltar	1025·4	52	?SE	1	m	1022·7	*	54	-3	NW	6	*	b	8	T	59	49				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1018·0	0	57	+2	WSW	4	-	o	2	-	59	55				
	Azores (Horta, 8 a.m.)	1031·9	*	NE	4	c							*									
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Deerness: 7th Jan.
W. 8 at 8 am.

Eskdalemuir: 7th Jan.
W.N.W. 8 at 1 p.m.
Gust 28 m.p.s
W.N.W. 8 at 7 p.m.

Malin Head: 4th & 8th Jan.
N.W. to W. 9. 6pm to 1 a.m
N.W. 9 at 6 p.m.

Blacksod Point: 7th Jan.
N.W. 8 2pm to 11 p.m.

Holyhead: 7th Jan.
W.N.W. 8 at 8 a.m
Gust 22 m.p.s
W.N.W. 8 at 6 p.m.
W.N.W. 9 at 8 p.m. Gust 27 m.p.s

Scilly: 7th & 8th Jan.
Squalls:- W.N.W. 8 at noon
W.N.W. 8 at 9 p.m
W. 8 at 12 m.

Nairn: 7th Jan.
W.N.W. 8. 5 to 7 p.m.

Aberdeen: 7th Jan.
W.N.W. 8 1pm to 5 p.m.
Gust 29 m.p.s.

Spurn Head: 7th Jan
Squalls N.W. 8 in Afternoon

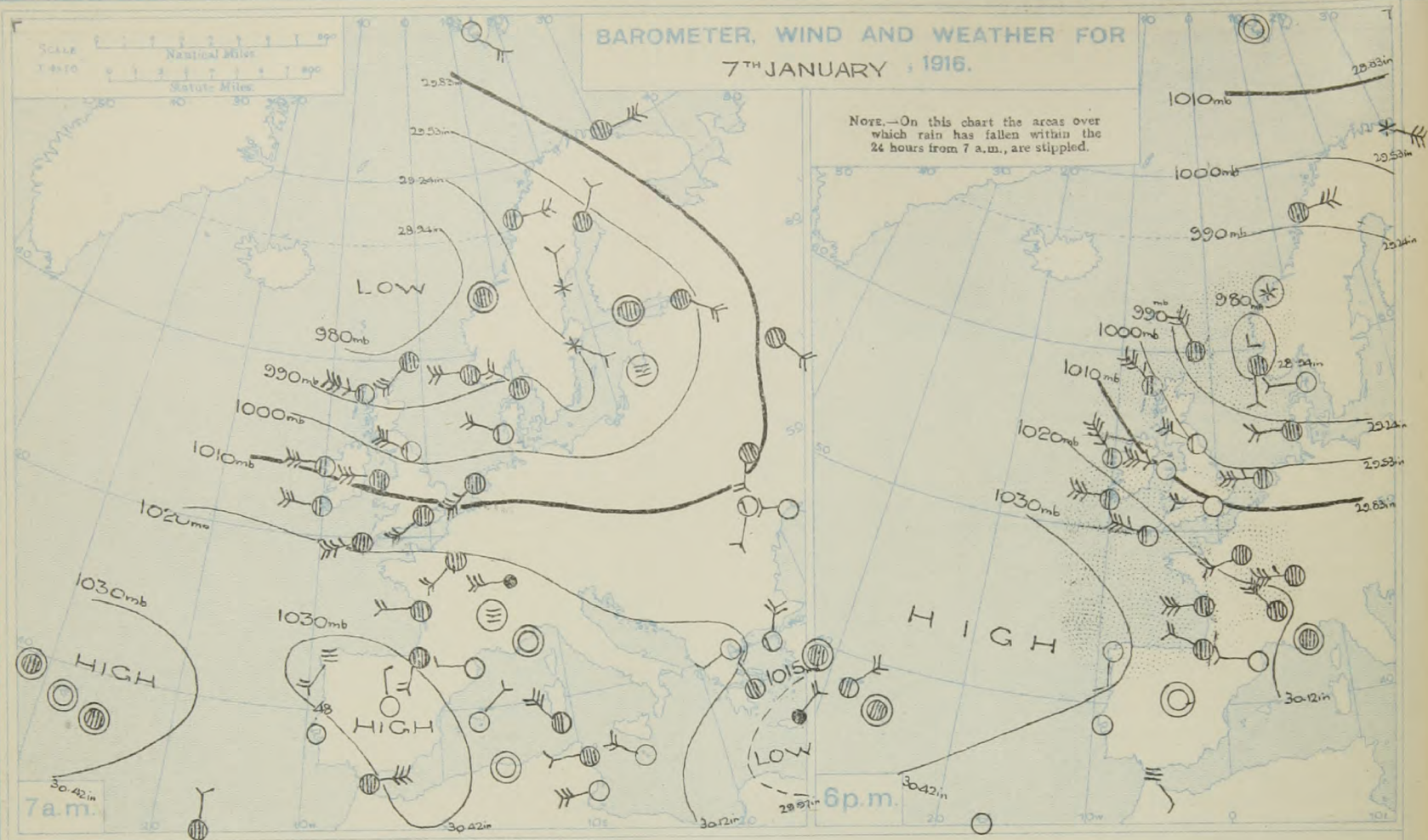
Southport: 7th Jan.
W. 8 4p.m to 10 p.m
Gust W. 24 m.p.s

South Farnborough: 8th January.
Pilot Balloon Ascent at 7.50 a.m

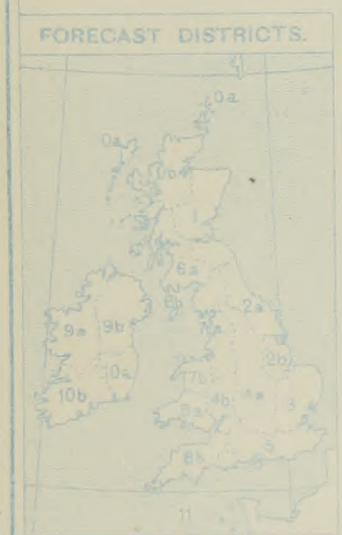
2000 metres. NNW. 33 miles per hour.

500 metres. NW 40 miles per hour.

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.



STORM WARNINGS.

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

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

0 a, b — Fresh North-Westerly wind, moderating gradually; fair generally, some showers; moderate temperature.

1, 2 a, b, 3, 4 a, b, 5 — Fresh or strong North-Westerly winds, moderating gradually; fair generally; colder.

6 a, b — Fresh North-Westerly wind, moderating and backing towards West; fair, some showers; cooler.

7 a, b, 8 a, b — Fresh or strong North-Westerly wind, moderating and backing towards West; fair generally; colder.

9 a, b, 10 a, b — Moderate North-Westerly or Westerly winds; fair generally; cooler.

Western Channel and Bay 11 — Fresh or strong North-Westerly wind, and rather rough sea, moderating gradually; fair generally.

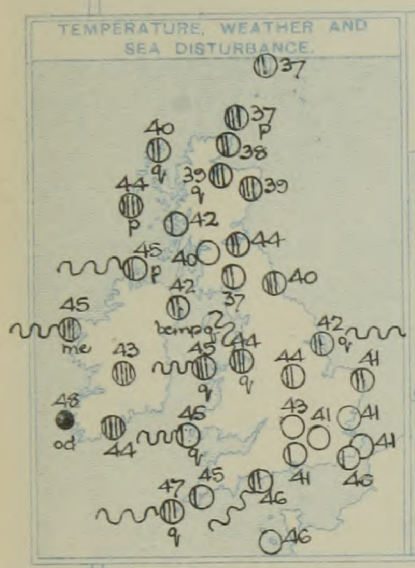
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 8TH JANUARY, 1916.

GENERAL INFERENCE.

The depression over Denmark will move south-eastward, and its influence over the British Isles become less marked.



EXPLANATION.

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

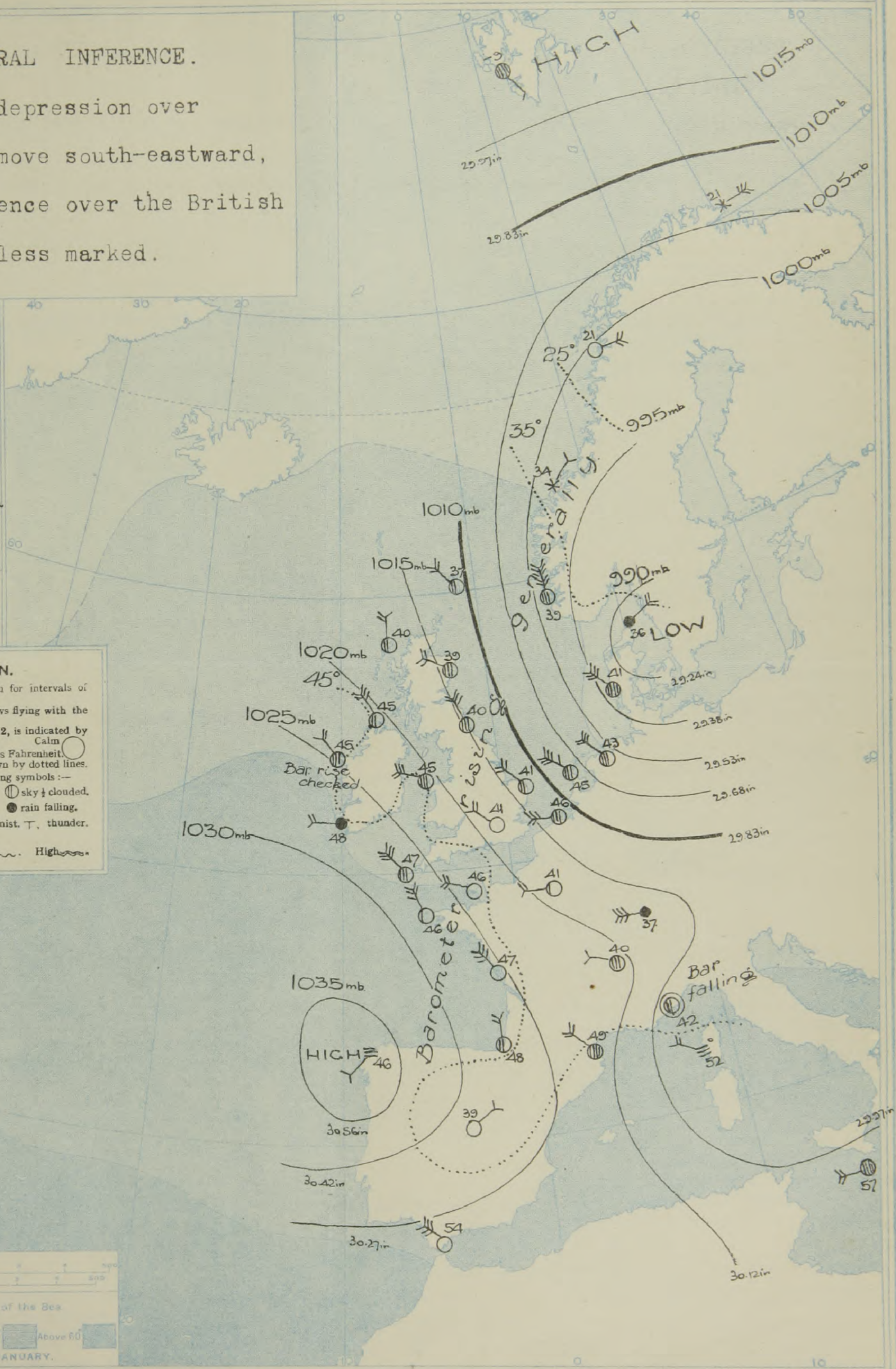
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 JANUARY.



Issue No. 19,770 DAILY WEATHER REPORT. 8th January, 1916.

REPORTS FOR YESTERDAY.

7th January

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	1002·7	30	SSE	3	s	995·1	-6	30	0	SE	4	-	0	4	2	30	30
Lisbon	1030·3	57	N	4	b	1028·0	-1	48	0	N	3	-	b	5	-	61	48

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	9	46	45	p.	bc	0·0
	Banff	1	46	42	bc.b	b.bc.r	0·9
	St. Andrews	-	57	42	*	*	5·7
Eng. N.E.	Harrogate	1	44	41	or.c	bc.c.bc	1·7
	Skegness	1	48	44	op.c	c.bc	0·6
Eng. N.W.	Morecambe	1	46	43	o.bc	bc or	1·1
	Blackpool	6	50	44	o.c.bc	bc.o.bo	2·2
	Southport	5	47	45	o.c.o	c.bc.c	2·3
Midlands.	Buxton	27	48	40	r.c.b	b	0·0
	Leamington Spa	2	50	43	od.cp	bc	2·0
	Malvern	1	49	43	o.c	bc.b	2·0
	Ross-on-Wye	1	55	43	or.bc	bc	1·9
Wales.	Llandudno	3	55	45	c	c	0·8
	Rhyl	3	48	45	-	-	2·3
	Colwyn Bay	6	50	44	c.bc	bc	1·0
	Aberystwyth	3	48	46	r.o.c	c.o	0·3
	Tenby	4	49	47	bc	b	3·2
England, E.	Lowestoft	4	53	45	orp	opcbc	0·0
	Felixstowe	3	50	44	omr	om.bc	0·0
	Walton-on-Naze						
	Southend-on-Sea	1	51	48	od	o.cbc.b	0·0
England, S.E.	Margate	1	53	49	o	op	0·0
	Ramsgate	1	50	46	c.or	r.c	0·5
	Hastings	1	51	44	om	o.c.b	0·0
	Eastbourne	0·3	51	47	oc	o.bc.b	0·0
	Seaford	0·3	51	46	o	o	0·0
	Brighton						
	Worthing	-	52	48	o.c.bc	bc.b	0·4
	Littlehampton	-	52	47	o.bc	bc	0·4
	Bognor	0·3	52	45	o	o.bc.b	0·6
	Southsea	0·3	52	46	o	bc	0·8
	Bournemouth	0·3	53	43	o	o.c	1·1
England, S.W.	Weymouth...	-	52	45	o.cbc	bc.b	0·2
	Torquay	2	54	46	o.cp	bc.b	2·3
	Paignton	1	53	43	bc	bc	2·3
	Penzance	2	52	49	og	bc.c	2·3
	Newquay	*	51	45	m.c.bc	c.bc	1·4
	Ilfracombe	3	50	46	c.bc	bcp.bc	0·5
	Weston-super-Mare ...	1	49	45	d.c.bc	b.bc	2·2

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.) ...	74	79	0·0	52	40	33	3	og.o	od.o	bc.b
City (Bunhill Row)	*	*	*0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	82	0·0	53	40	33	1	r.o	ou.ue	bc
Camden Sq. (Brit. Rainfall)	78	79	0·0	53	39	34	2	op.o	op.c	*
Hampstead (Reservoir) ...	*	78	0·2	50	37	28	3	o	o.	orbc.b
Richmond Park ...	*	*	0·2							
Kew. (See front page.)	*	*	0·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	78	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
124 Joules	4·3 Milliwatts.	11 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.								*
Darwen to 9 p.m.	35	51	39	41	or	ou.b	our	0·7
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	55	45	48	o	o.cp	o	*

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

8th & 9th January 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.4 / 8.3	12.0 / 12.0	3.56 / 3.57
Greenwich	8.6 / 8.5	12.7 / 12.7	4.8 / 4.9
Wick	9.0 / 8.59	12.19 / 12.19	3.38 / 3.40
Valencia	8.49 / 8.48	12.48 / 12.48	4.46 / 4.48

NOTES ON YESTERDAY'S WEATHER.

Fresh to strong Westerly or North-Westerly winds prevailed with local North-Westerly gales. The weather was dull, with rain in most districts, the amounts being heaviest in the north. Temperature has fallen.

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. 9 { Sunday, 9th January

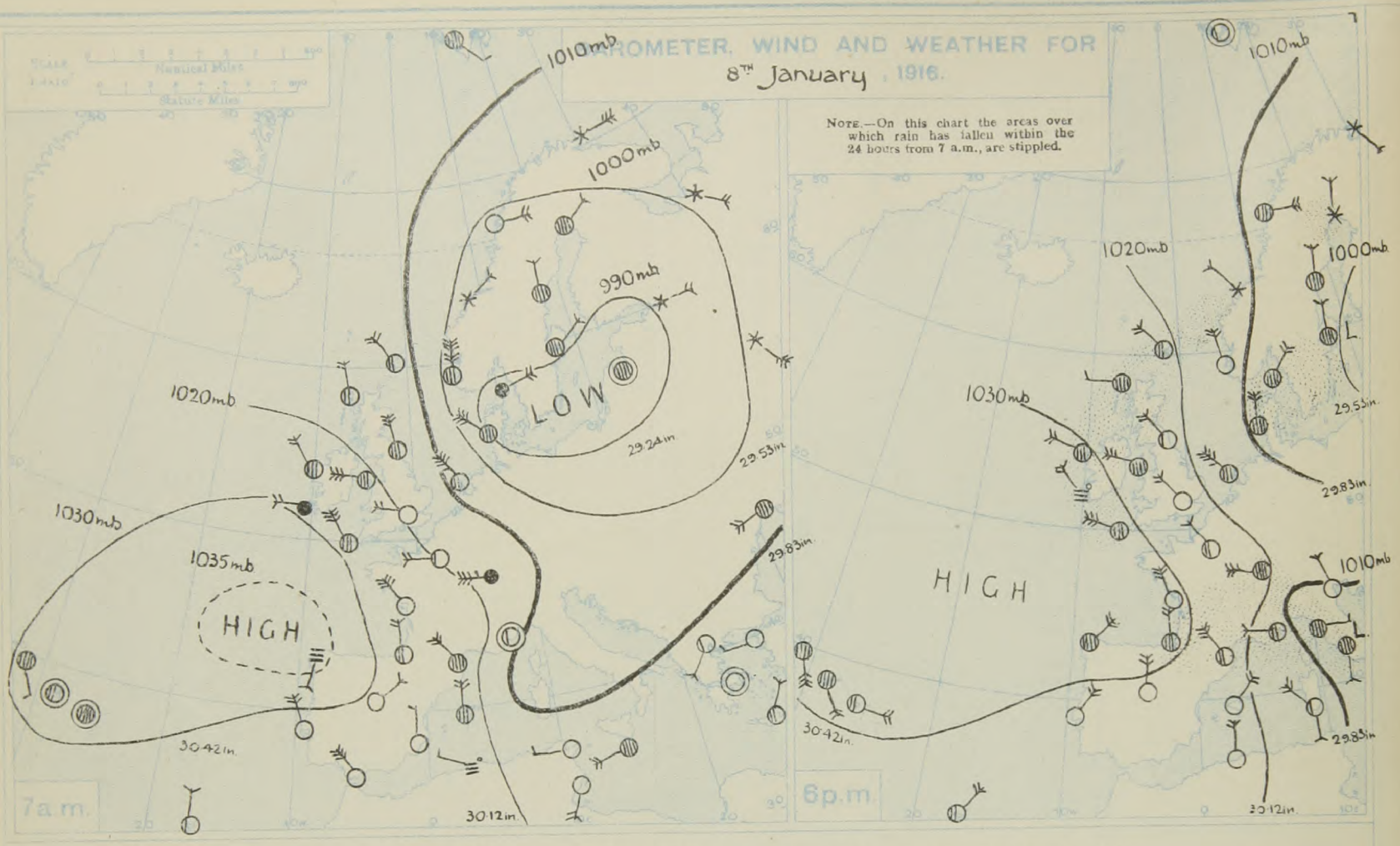
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	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 ...	1020·9	36	NW	3	bc	1016·8	-5	41	+4	SSE	5	–	or	4	3	41	34	bc	bc	bc.or	*
	Deerness (Orkney)	1022·3	38	N	2	c	1018·9	*	43	+6	SSW	3	–	o	3	9	43	36	cp.c	c	cbc.b.o	1·0
	Stornoway ...	1023·9	41	W	1	o	1020·6	-3	47	+7	SW	5	–	odq	4	2	47	37	bc c	co	odpq	1·3
	Castlebay (Barra Isd.)	1024·2	46	SW	2	d	1024·6	0	48	+4	W	4	–	d	4	1	49	42	ofp	od	d. od	0·0
	Glasgow ...	1025·7	38	NW	1	cm	1027·0	+1	45	+5	SW	1	–	o	*	0·2	45	38	x.bz	b.bc	ogm.op	4·4
	Eskdalemuir ...	1025·9	34	—	0	b	1028·6	+1	40	+3	S	2	–	ofe	*	0·1	45	34	bc	b	bc.ofe	3·2
	Malin Head ...	1025·6	48	NW	5	omd	1028·4	0	46	+1	WSW	3	NW	bc	2	1	50	43	og	omd	bc	0·1
	Blacksod Point	1030·5	49	WNW	4	cm	1031·8	0	47	+2	W	4	W	cmp	4	1	52	43	cm	cme	cmp	*
	Valencia ...	1034·2	50	NW	2	m	1036·4	+1	48	0	WNW	2	W	o	4	1	51	48	mdc	omd	od-o	0·0
	Roche's Point	1032·8	50	NW	3	opq	1035·9	*	47	+3	WNW	2	–	o	2	0·3	51	44	cfq	ogpq	o.c.o	*
	Birr Castle ...	1030·5	49	W	2	o	1033·7	*	46	+3	W	1	–	o	*	1	50	42	ord	odg	o	0·0
	Donaghadee ...	1026·3	45	NW	3	ompd	1029·8	+3	45	+3	W	3	–	og	2	1	47	42	bcmp	cmp	of.c.og	*
	Liverpool (Bidston)	1026·5	45	W	4	c	1030·6	+1	46	+2	W	2	–	o	3	–	47	43	bcq	bc	cv	1·5
	Holyhead ...	1027·4	47	WNW	5	of.	1031·1	+2	47	+2	WNW	5	–	c	4	–	48	44	c.o.c	c.bc.c.o	o.c.bc.x	1·0
	Pembroke (St. Ann's)	1029·7	48	WNW	4	ofd	1033·5	+1	47	+2	NW	3	NW	bc	3	1	50	45	bc	ofd	c	1·9
	Scilly (St. Mary's)	1030·5	50	WNW	6	c	1034·8	+1	50	+3	NW	5	–	omd	5	1	51	45	c.o	omd.c	bc.omd	0·6
	Falmouth ...	1029·9	47	WNW	1	od	1034·6	+2	50	+5	NNW	3	–	o	*	2	50	44	b.bc.c	c.od	od.o	1·0
	Jersey (St. Aubin)	1028·4	47	WNW	3	c	1032·9	*	48	+2	NW	2	–	o	2	–	50	45	b	bc	c.b.o	4·6
	Portland Bill ...	1027·7	47	NW	4	b	1032·5	+2	46	0	NW	2	NW	o	3	–	48	45	c.bc	bc	bc.c	*
	Dungeness ...	1023·6	42	WNW	3	cz	1031·0	+3	34	-6	NNW	1	N	bx	1	–	45	34	bcz	bcz	bc.bx	*
	Dover	1024·9	40	NW	4	b	1031·2	+4	34	-7	NW	3	–	b	2	–	45	34	b.bc	bc.b	bx	2·8
	Wick	1023·2	35	–	0	b	1020·3	-3	42	+4	WSW	3	–	c	2	1	42	32	bchp	bc	bcmp	*
	Nairn	1024·8	35	W	1	bc	1022·0	*	46	+7	W	2	–	cq	2	1	46	33	c.bc	bc	bc.cp	0·6
	Aberdeen ...	1023·4	36	NW	3	b	1023·8	-3	36	-3	SW	2	–	o	2	1	40	33	bcp	bcp	b.o	1·1
	Leith	1025·4	39	W	1	bc	1026·3	0	46	+2	W	1	W	bc	2	–	47	36	bc	bc	b	*
	Tynemouth ...	1023·6	38	NW	3	bm	1027·4	–	38	-2	SW	2	–	om	4	–	42	35	bcm	cm	bm	*
	Spurn Head ...	1023·4	42	N	6	bc	1030·1	+2	38	-4	NNW	4	–	bcm	6	—	44	36	bcq	bcq	bcq	3·2
	Yarmouth ...	1022·2	41	NNW	4	bc	1029·8	+3	35	-6	NNW	2	–	bc	2	–	44	35	bcq	bc	bc	2·6
	Clacton-on-Sea	1023·7	40	WNW	3	b	1030·5	+3	33	-8	NNW	2	–	bc	1	–	45	33	b.bc	bc.b	b.bcx	3·0
	Nottingham ...	1026·2	42	NW	2	b	1030·4	*	36	-8	W	1	–	o	*	–	47	31	bcm	bcb	b	0·5
	Benson (Oxon.) ...	1026·2	42	NW	3	b	1032·2	+2	39	0	–	0	—	o	*	–	46	36	bc	c	o	*
	Sth Farnborough	1025·7	42	WNW	2	b	1031·8	+2	33	-8	–	0	–	om	*	–	46	32	b.c.bc	o.c.b	om	2·0
	London (Kew Obsy.)	1025·7	45	NW	3	b	1032·2	+2	35	-6	WNW	1	–	bmx	*	–	45	34	b.bc.c.o	o.c.o.c.bc.b	b.bmx	0·1
NORTHERN EUROPE.	Spitsbergen ...	1015·9	-2	–	0	b	1012·3	-1	-8	+1	N	1	*	b	*	*	-2	-11				
	Vardö	1008·8	23	ESE	2	s	1010·4	0	21	0	ESE	2	–	o	3	*	23	18				
	Bodö	1008·8	23	E	4	o	1012·2	0	25	+4	E	2	–	b	2	–	25	19				
	Christiansund	1014·4	34	NW	2	s	1015·7	-3	34	0	—	0	–	o	4	4	36	34				
	Skudesnaes ..	1013·3	36	NNW	4	b	1022·0	+1	32	-7	–	0	–	o	3	–	39	30				
	Færder (X'iania Fjord)	1008·6	32	NNW	3	b	1019·9	+4	30	-2	NW	2	–	b	2	–	32	28				
	The Scaw (Skagen)	1005·2	36	NE	4	o	1019·8	+5	36	0	NE	5	–	bc	5	2	37	34				
	Blaavands Huk	1006·6	39	N	4	o	1023·0	+6	36	-5	NNE	1	–	b	2	Trace	43	32				
	Haparanda ...	1003·7	19	N	2	s	1013·1	+2	14	-7	N	4	–	o	*	1	21	14				
	Hernösand ...	1005·9	18	N	2	o	1014·1	+4	16	-2	NNW	2	N	bc	*	–	21	12				
	Stockholm ...	1000·3	25	N	2	o	1012·6	+4	18	-10	N	4	–	o	*	–	28	18				
	Wisby	998·7	32	N	6	o	1012·0	+6	27	-7	N	6	–	o	5	Trace	34	25				
	Karlstad	1006·1	25	E	2	o	1018·6	+7	18	-14	NE	2	–	b	*	1	32	12				
	Petrograd (5 a.m. G.M.T.)	992·4	30	E	3	o	998·0	+4	28	-2	NE	3	–	o	*	1	30	28				
FRANCE, &c.	The Helder ...	1016·0	43	NW	7	c	1026·3	+4	41	-4	NNW	4	–	c	3	–	46	39				
	C. Gris Nez ...	1023·5	44	NNW	6	b	1029·6	+3	40	-3	NNW	4	*	b	4	–	46	39				
	La Hève	1023·9	46	NNW	6	c	1031·1	*	43	-2	NNE	3	*	bc	4	–	50	37				
	Brest (St. Mathieu)	1032·2	50	NW	4	m	1035·3	+1	51	-5	N	5	*	o	4	–	52	48				
	Rochefort (Ile d'Aix)	1030·9	46	NNW	5	b	1032·2	0	46	-1	N	4	*	o	*	–	52	46				
	Biarritz	1032·2	50	N	3	c	1031·8	0	46	-2	–	0	*	o	3	5	52	45				
	Paris	1024·4	43	NW	2	bc	1030·0	+3	36	-5	NNW	2	–	b	*	–	46	36				
	Belfort	1021·7	36	W	5	o	1027·3	*	32	-5	W	2	*	o	*	2	43	32				
	Lyons	1025·6	37	NW	2	o	1027·1	*	36	-4	NNW	4	*	bc	*	4	43	36				
	Nice	1011·8	44	W	2	bc	1015·1	+3	41	-1	–	0	*	b	3	2	57	37				
	Perpignan ...	1026·4	46	NW	5	bc	1026·4	0	45	-4	NW	5	NW	o	*	1	52	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1035·9	52	NE	4	o	1038·4	0	50	+4	S	1	–	f	3	?	54	48				
	Madrid (8 a.m.)	1029·1	48	N	4	b	1031·9	0	43	+4	N	1	–	b	*	–	50	34				
	Lisbon (9 a.m.)	1026·3	55	NNE	4	b	1030·1	+1	46	-4	NNE	5	–	b	5	–	59	46				
	Gibraltar							*					*									
	Rome	1005·2	52	S	2	o	1007·9	0	45	-	N	2	*	bc	*	1	*	*				
	Malta (8 a.m.) ...	*	*	*	*	*	1015·0	0	54	-3	WNW	5	–	o	4	1	61	54				
	Azores (Horta, 8 a.m.)	1031·4	*	SE	4	b	1031·8	+1	58	+1	ESE	4	*	bc	3	–	64	57				
	Madeira (Funchal)	1024·8	63	NE	3	bc	1025·1	+1	55	-4	?	?	–	b	?	–	64	55				

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.

0 a, b, 1	Freshening South-Westerly winds; dull, with some rain; temperature mild.
2 a, b	Light North-Westerly winds, backing Westerly and freshening; weather dull; temperature normal.
3, 4 a, b, 5	Light North-Westerly winds, backing Westerly; dull, night frost.
6 a, b	Same as No. 2.
7 a, b, 8 a, b, 9 a, b, 10 a, b	Moderate or fresh winds from between West and North-West; weather dull; temperature normal.
Western Channel and Bay 11	Fresh North-Westerly winds; moderate sea; weather dull; temperature normal.

FURTHER OUTLOOK.

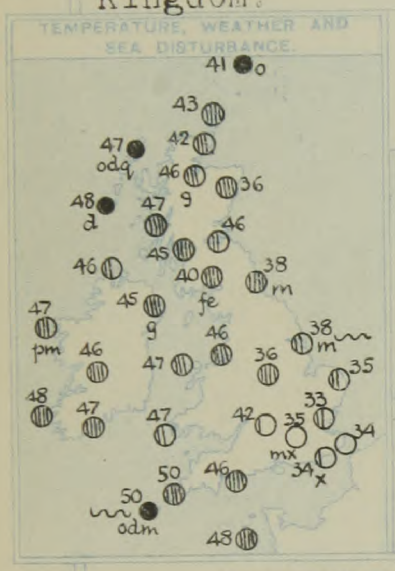
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 9TH JANUARY, 1916.

GENERAL INFERENCE.

The depression to the north of Scotland is likely to spread south-eastward and affect the northern parts of the United Kingdom.



EXPLANATION.

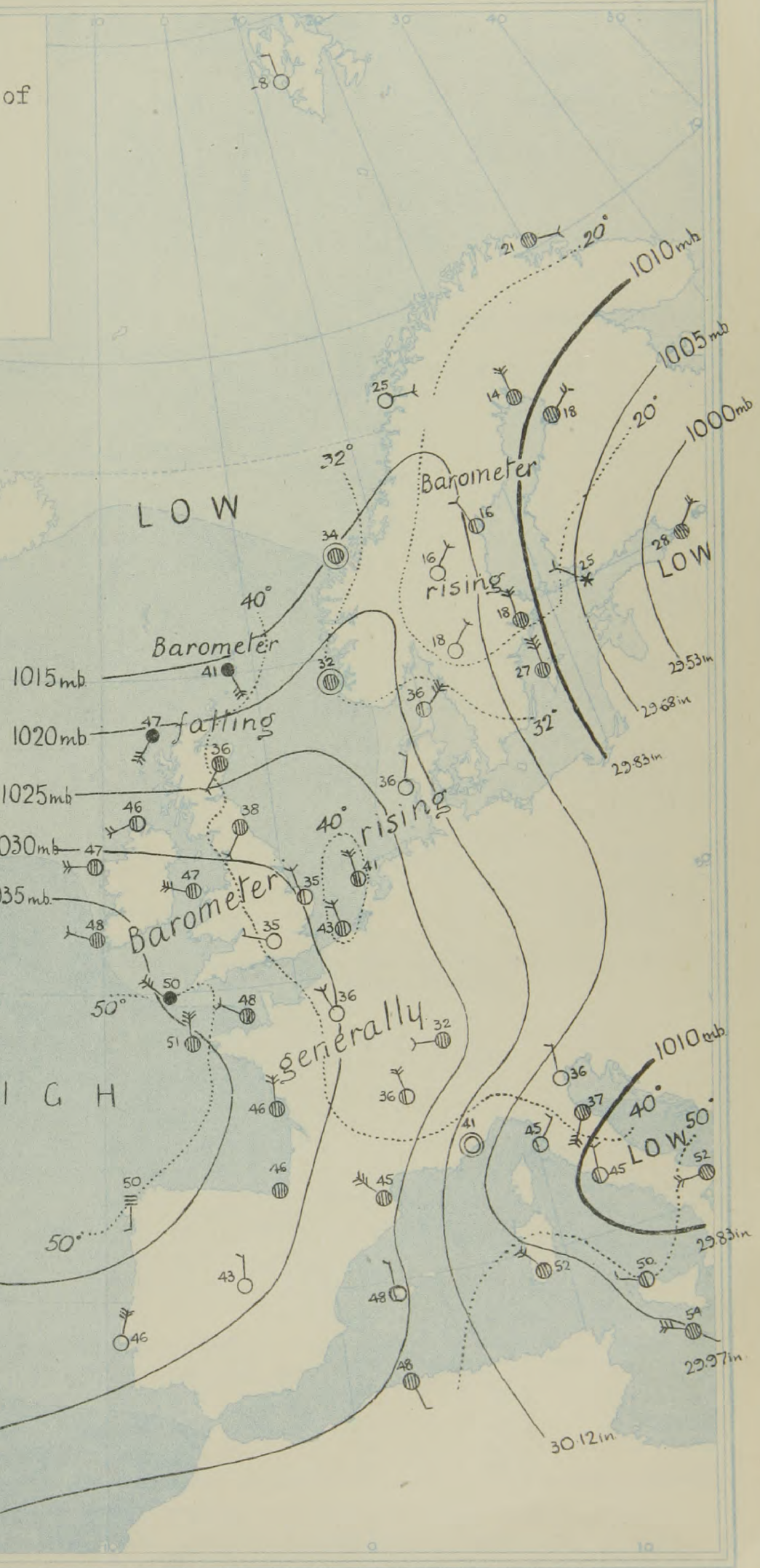
BAROMETER.—Isobars are drawn for intervals of five millibars.

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



Issue No. 19,771

DAILY WEATHER REPORT.

Sunday, 9th January, 1916.

REPORTS FOR YESTERDAY.

8th January, 1916

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12	Weather.	OBSERVATIONS AT 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	994.7	10	NNE	2	S	998.3	+3	21	+7	NE	2	–	o	*	1	21	14
Hernösand	993.5	18	[illegible]	4	S	998.1	+2	18	-1	N	2	–	o	*	7	23	16
Stockholm	997.8	32	ESE	2	o	992.0	+3	23	-4	[illegible]	2	–	o	*	Trace	34	28
Wisby	986.7	32	N	2	o	989.0	+4	3[illegible]	0	NE	2	–	s	2	–	34	23
Karlstad	986.6	32	–	o	o	992.7	+5	32	-2	NNE	2	–	o	*	–	36	28
Petrograd	994.7	32	SE	4	s	991.3	-2	30	0	E	3	–	s	*	1	32	20
Lisbon	?1028.8	57	NW	2	b	1025.6	0	50	+2	NNW	4	–	b	*	–	59	50
Horta	.	.	.	.	.	1031.9	-1	57	+2	–	o	*	bc	1	–	61	55
Funchal	1025.5	61	N	2	c	1025.7	0	59	0	–	2	N	b	2	–	63	57

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	45	41	bc	o	0.7
	Banff	2	41	38	bc	bc.b.	1.3
	St. Andrews				*	*	
Eng., N.E.	Harrogate	–	42	37	b.bc.b	b	5.1
	Skegness	–	44	39	c.bc	bc.o	4.3
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	–	46	42	c.bc	bc.b.bc	3.1
Midlands.	Buxton	–	41	39	c	c	0.8
	Leamington Spa	–	46	40	b.bc	bc.b	0.6
	Malvern						
	Ross-on-Wye	–	49	39	b	b	3.5
Wales.	Llandudno	–	48	43	c	c.	2.0
	Rhyl	1	47	42	o	cp	0.1
	Colwyn Bay						
	Aberystwyth	1	49	46	r.o.c	c.bc	3.5
	Tenby	–	49	41	bc	bc	4.7
England, E.	Lowestoft						
	Felixstowe	–	45	39	bc	bc	4.3
	Walton-on-Naze	–	44	39	b.bg.bc	b	3.6
	Southend-on-Sea	–	45	40	b.bc.c	bc.b.	3.5
England, S.E.	Margate	–	46	42	b	bc.c	1.8
	Ramsgate	–	45	38	bc	bc	3.7
	Hastings	–	46	38	b.bc.o	o.bc	2.1
	Eastbourne	–	46	40	b.bc	o.bc	2.8
	Seaford	–	47	39	b	bc	2.3
	Brighton	–	46	39	bc.b.bc.c	c.o.c.bc.b	1.0
	Worthing	–	47	39	bc	bc	1.4
	Littlehampton	–	52	38	o.bc	b.bc	3.7
	Bognor	–	48	39	b	bc.c	4.2
	Southsea						
	Bournemouth	–	48	40	bc.b	bc	5.0
England, S.W.	Weymouth	–	49	41	bc.b	bc	5.7
	Torquay						
	Paignton	1	50	41	bc	bc.c	5.4
	Penzance	1	51	45	c	o[illegible]	0.0
	Newquay						
	Ilfracombe	–	50	44	bc.b	b.bc	4.5
	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.)	71	100	0.1	45	31	25	–	o.c	o.bc	bc.b.bc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	78	95	0.0	46	33	29	–	o.bc	bc	bc.fc.
Camden Sq. (Brit. Rainfall)	74	97	0.2	46	31	28	Trace	b.bc.o	o	*
Hampstead (Reservoir)	*	96	0.8	43	32	19	–	bc	bc	bcx
Richmond Park	*	*	0.2							
Kew. (See front page.)	*	*	0.1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	96	0.6							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
133 Joules	2.6 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.	0.3	46	39	35	bc	c.o	c.ocl	*
Darwen to 9 p.m.	0.2	41	37	34	bc.or	cu.b	cu	0.2
Manchester ,,	–	46	42	*	c	c.bc	bc.c	0.6
Birmingham ,,	2	52	40	36	or	r.o	o.c.b	1.5
Oxford to 8 p.m.	*	46	39	34	b.c	c.bc	bc.c	*
Teignmouth to 9 ,,	1	50	42	37	bc.p.bc	b.	bc	3.2
Plymouth ,,	0.1	49	43	–	bcq	c.b	c.b	2.8
S. Kensington (Museum Grounds to 8 p.m.)	Trace	46	41	32	b.bc	bc.o	o.bc.b	*

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

Date 10th Jany., 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.3 8.3	12.2 12.1	3.51 3.59
Greenwich	8.5 8.5	1.7 12.8	4.9 4.11
Wick	8.51 8.59	12.19 12.26	3.40 3.12
Valencia	8.48 8.48	12.14 12.49	4.48 4.50

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° at several stations in England and Ireland but only to 42° at Harrogate and 40° at Aberdeen. Slight rain fell in the far north and west. Bright sunshine was very prevalent for the time of year in various parts of 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.

§ 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. 10.

Monday, 10th January,

	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 ...	1009.4	48	WSW	5	om	1002.2	-2	48	+2	WNW	6	-	bcq	5	10	48	40	omrq	omrq	o.bcqp	*
	Deerness (Orkney)	1012.2	48	WSW	6	odqp	1006.4	*	44	+1	W	7	-	bcq	5	6	48	43	op	p.od	pd.o.cb	0.0
	Stornoway ...	1017.6	50	W	6	odqp	1011.8	0	44	-3	NW	7	-	cqp	6	6	50	44	odqp	odqp	or.cqp	0.0
	Castlebay (Barra Isd.)	1022.8	50	W	4	d	1017.8	-2	50	+2	W	6	-	op	6	0.1	50	47	d	d	d.omop	0.0
	Glasgow ...	1025.4	48	WSW	4	o	1018.2	-7	49	+4	W	7	-	c	*	1	49	44	ome	odp	op.o.cq	0.0
	Eskdalemuir ...	1027.6	48	WSW	5	o	1021.5	-5	47	+7	WSW	7	-	o	*	2	48	39	omd	md.o	or.od.o	0.0
	Malin Head ...	1027.4	49	SW	3	omd	1023.5	-2	47	+1	WNW	5	-	omqp	5	1	50	45	omqd	omd	omqp	0.0
	Blacksod Point	1031.6	48	SW	4	ofe	1028.7	-3	48	+1	WSW	7	W	omd	5	1	48	44	ofd	ofe	om.om.	*
	Valencia ...	1037.4	48	W	2	omd	1036.2	0	48	0	WSW	4	-	cp	4	2	50	48	od.o	cdp	omd.o.c	0.1
	Roche's Point	1036.9	49	WNW	1	o	1035.9	*	50	+3	W	3	-	o	3	0.1	51	45	o	o.c.o.	o.c	*
	Birr Castle ...	1034.0	48	SW	2	r	1031.8	*	49	+3	W	2	-	o	*	1	49	44	od	od	od.og	0.0
	Donaghadee ...	1029.2	49	W	4	ogm	1024.7	-3	50	+5	NSW	6	W	bcmq	4	0.1	50	44	*	ogm	og.cgm	*
	Liverpool (Bidston)	1031.5	47	WSW	4	b	1028.8	-1	49	+3	WSW	5	W	oq	4	1	50	45	oq.	op	oq	0.1
	Holyhead ...	1032.4	49	W	4	om	1030.2	-1	49	+2	W	5	-	oe	4	0.1	51	47	e.o	c.o.odp	odp.bc	0.0
	Pembroke (St. Ann's)	1035.2	48	W	3	c	1033.6	-1	49	+2	W	8	W	cv	3	-	49	47	bc.cv	c.o	c	0.1
	Scilly (St. Mary's)	1037.1	48	NW	4	cv	1036.2	0	48	-2	W	4	-	omd	4	1	51	46	ov	ov	ev.omd	0.0
	Falmouth ...	1036.8	47	NW	1	c	1036.4	-1	46	-4	WNW	3	-	o	*	Trace	50	44	o.e	cp.c	c.o	0.0
	Jersey (St. Aubin)	1035.0	50	NW	2	o	1035.9	*	49	+1	W	3	-	o	2	-	52	47	o.c.o	o	o	0.0
	Portland Bill ...	1034.1	49	NW	3	c	1034.1	-1	49	+3	WNW	8	-	c	3	-	53	46	bc	bc.c	c.bc	*
	Dungeness ...	1034.4	44	S	1	o	1031.0	-2	44	+10	W	4	W	c	3	1	46	33	b.bc	bc.c.o	bc.bcp	*
	Dover ...	1033.3	43	W	3	m	1031.1	-1	44	+10	W	3	-	bc	3	0.2	46	41	b	bz	bc.cp	6.0
	Wick ...	1015.0	50	SW	4	o	1008.2	-3	45	+3	NW	4	-	bc	4	1	50	42	cm	c.ogm	o.bcqp	*
	Nairn ...	1018.3	51	W	3	o	1011.6	*	51	+5	W	8	-	odq	5	0.1	52	46	b.cg	cge	cq	0.0
	Aberdeen ...	1019.4	51	W	4	b	1012.3	-4	50	+14	SW	4	-	b	2	0.2	53	36	omp	o.c.b	b.bc	0.0
	Leith ...	1025.0	50	W	2	c	?1019.2	-2	50	+4	W	3	W	c	4	-	51	45	bc.oe	og.oe	o.cq.c	*
	Tynemouth ...	1026.1	48	WNW	3	om	1021.9	?	50	+12	W	5	-	bcm	4	-	50	38	cm	om	bcm	*
	Spurn Head ...	1029.5	44	W	4	o	1026.6	-1	46	+8	W	6	-	cmq	6	0.1	47	?38	bcm.o	o	bcqp	0.1
	Yarmouth ...	1031.1	?42	WNW	3	o	1028.0	-1	43	+8	WNW	3	-	bcm	2	-	45	34	bc	bc.o	bc.o.bc	7.6
	Clacton-on-Sea	1032.6	43	W	2	o	1030.3	-1	44	+11	W	3	-	c	1	-	44	33	bc	bc.ogm	ogm.c	4.0
	Nottingham ...	1031.2	47	W	3	o	1028.2	*	46	+10	W	3	W	o	*	-	48	35	om	om	o.c.b	0.0
	Benson (Oxon.) ...	1032.8	46	WNW	1	o	1032.2	-1	44	+5	W	2	-	o	*	-	48	39	o.c	c.o	o.c.b	*
	Sth Farnborough	1033.2	44	-	0	o	1031.8	0	45	+12	WSW	2	-	bc	*	Trace	48	32	om.o	o.b.o	o.b	0.0
	London (Kew Obsy.)	1033.7	44	W	1	om	1031.9	-2	45	+10	SW	1	W	om	*	Trace	45	34	bmcfaomd	omd.om	om.emom	0.0
NORTHERN EUROPE.	Spitsbergen ...	1007.4	-15	SE	2	b	1007.8	0	5	+13	ESE	4	*	b	*	*	5	-19				
	Vardö ...	1004.2	19	-	0	r	998.7	-2	16	-5	SW	1	-	o	3	*	21	16				
	Bodö ...	992.7	30	E	4	3	984.7	-5	27	+2	E	4	-	s	2	?	30	25				
	Christiansund	999.4	37	SW	2	r	991.3	-6	39	+5	NW	4	-	s	4	13	37	28				
	Skudesnaes ..	1010.9	43	S	6	r	1001.3	-5	41	+9	W	7	-	r	5	30	34	16				
	Færder (X'iania Fjord)	1011.0	34	SW	6	o	997.2	-5	37	+7	SW	6	-	b	3	-	34	30				
	The Scaw (Skagen)	1019.3	34	SW	2	o	1002.3	-8	45	+9	W	6	-	o	6	-	45	[illegible]				
	Blaavands Huk	1024.2	39	NW	2	c	1018.7	-3	43	+7	W	4	-	c	4	Trace	43	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...																					
	Karlstad ...														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1030.1	43	SW	2	b	1024.6	-1	45	+4	WSW	4	-	o	3	-	45	41				
	C. Gris Nez ...	1032.9	45	NNW	3	o	1031.3	-2	46	+6	SW	5	*	o	4	2	46	40				
	La Hève ...	1035.0	45	-	0	o	1034.9	*	46	+3	W	3	*	c	3	-	48	41				
	Brest (St. Mathieu)	1037.9	50	NNW	4	o	1038.2	0	46	-5	N	3	*	c	2	2	52	46				
	Rochefort (Ile d'Aix)	1035.8	47	N	3	o	?	0	45	-1	NNE	1	*	o	*	-	50	41				
	Biarritz ...	1034.3	50	NE	3	o	1037.2	+3	38	-8	E	2	*	b	2	2	50	36				
	Paris ...	1037.6	36	-	0	b	1035.5	0	39	+3	S	2	-	o	*	—	45	30				
	Belfort ...	1033.6	34	-	0	c	1037.7	*	28	-4	-	0	*	o	*	1	39	28				
	Lyons ...	1032.8	36	NNW	3	bc	1036.7	*	32	-4	NW	2	*	b	*	—	41	31				
	Nice ...	1021.6	45	ENE	4	b	1028.7	+2	39	-2	E	4	*	b	3	-	54	37				
	Perpignan ...	1029.1	45	NW	S	b	1033.7	+2	39	-6	NNW	4	-	b	*	Trace	48	39				
	Sangeinaire ...	*	56	N	4	bc	*	*	60	.	SE	3	*	bc	4	-	60	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1038.7	54	NE	3	o	1038.4	0	52	+2	NE	4	-	o	3	?	55	50				
	Madrid (8 a.m.)	1029.6	50	N	4	b	1034.3	-3	41	-2	-	0	-	b	*	-	52	36				
	Lisbon (9 a.m.)	1029.9	54	NNE	4	b	1030.1	0	50	+4	NNE	4	-	b	*	-	57	46				
	Gibraltar ...	1026.1	56	E	4	b	1026.1	*	54	.	E	4	*	b	2	-	58	50				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1019.0	+3	60	-4	WSW	1	SW	0	1	-	67	48				
	Azores (Horta, 8 a.m.)	1030.9	*	SSE	4	bc	1030.3	0	57	-1	ESE	4	*	o	4	-	63	55				
	Madeira (Funchal)	1023.9	63	NE	3	bc	1025.2	+1	57	+2	NE	3	N	bc	3	-	64	55				

GALES.

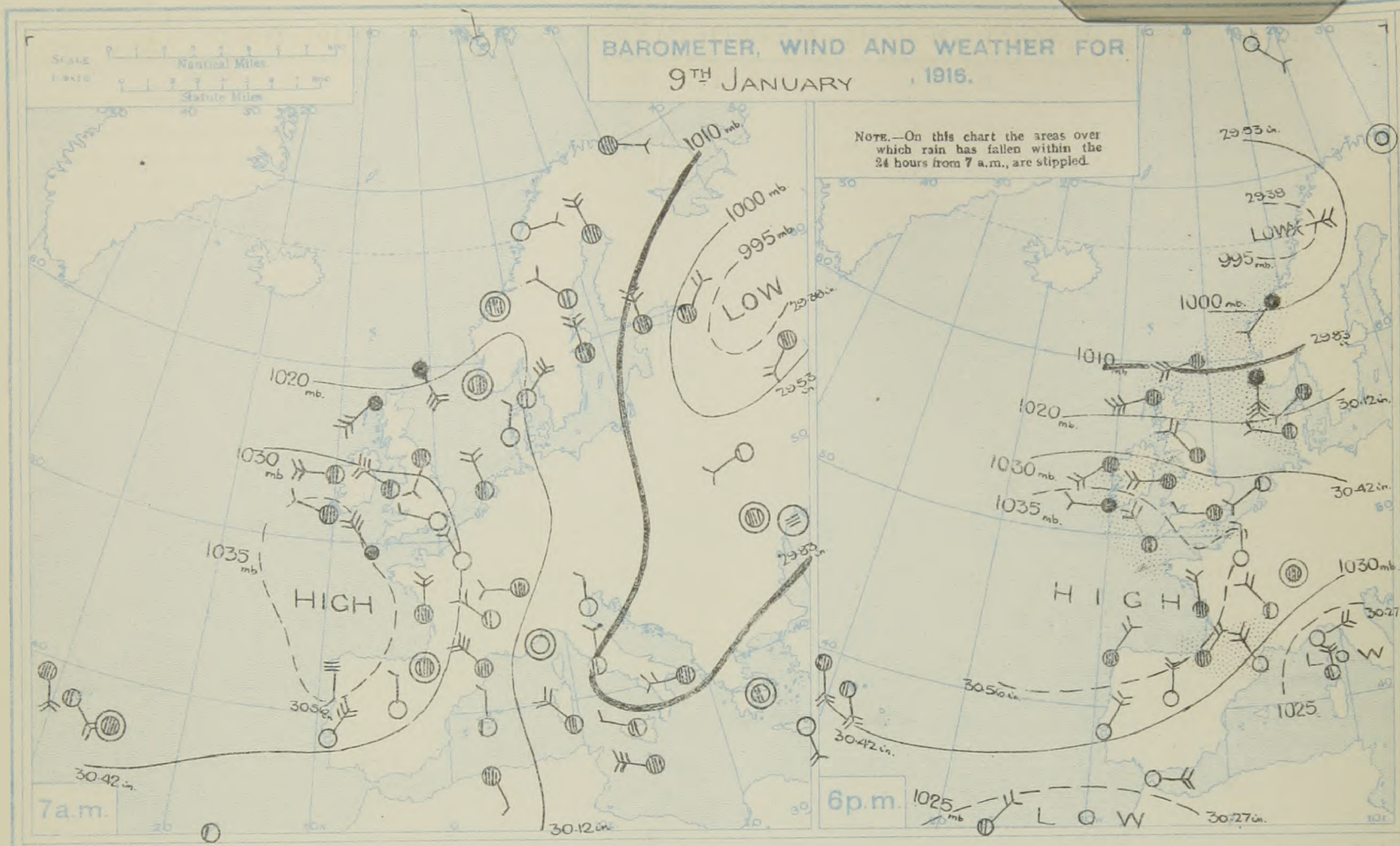
Duration and Extreme Force in British Islands.

Stornoway
During night of 9th Squalls W 8.

Nairn
10th 4 a.m – 7 a.m W 8.

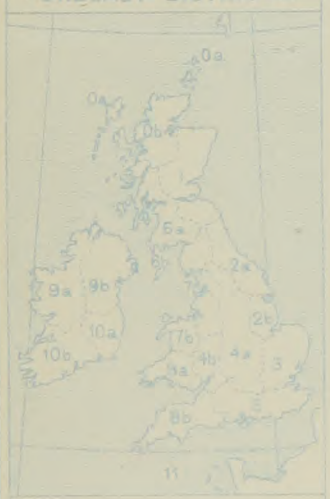
South Farnborough
Pilot Balloon Ascent at 7.50 a.m.
250 metres W 18 miles per hour.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 a, b, 1 — Fresh or strong Westerly wind ; unsettled, showery; mild.

2 a, b — Fresh or strong Westerly wind; cloudy, some showers; mild.

3, 4 a, b, 5 — Light Westerly wind, increasing somewhat; fair generally, but cloudy; mild.

6 a, b — Same as Nos. 0 and 1.

7 a, b — Same as No. 2.

8 a, b — Same as Nos. 3 to 5.

9 a, b — Same as Nos. 0 and 1.

10 a, b — Moderate or fresh Westerly or South-Westerly winds; some showers, mild.

11 — Light rather variable breezes; moderate sea; fair generally.

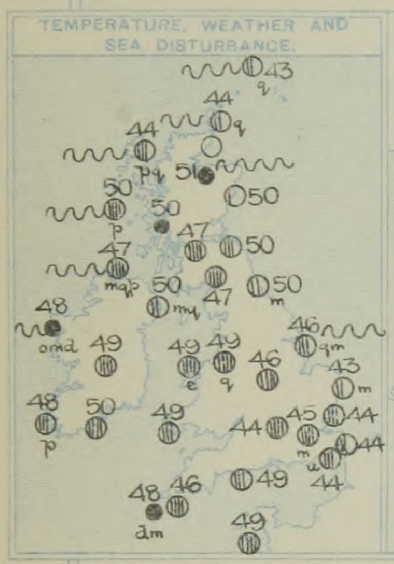
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 10TH JANUARY, 1916.

GENERAL INFERENCE.

No material change is anticipated. Anticyclonic conditions will continue in the south. The northern districts will remain under the influence of a depression in the far north.



EXPLANATION.

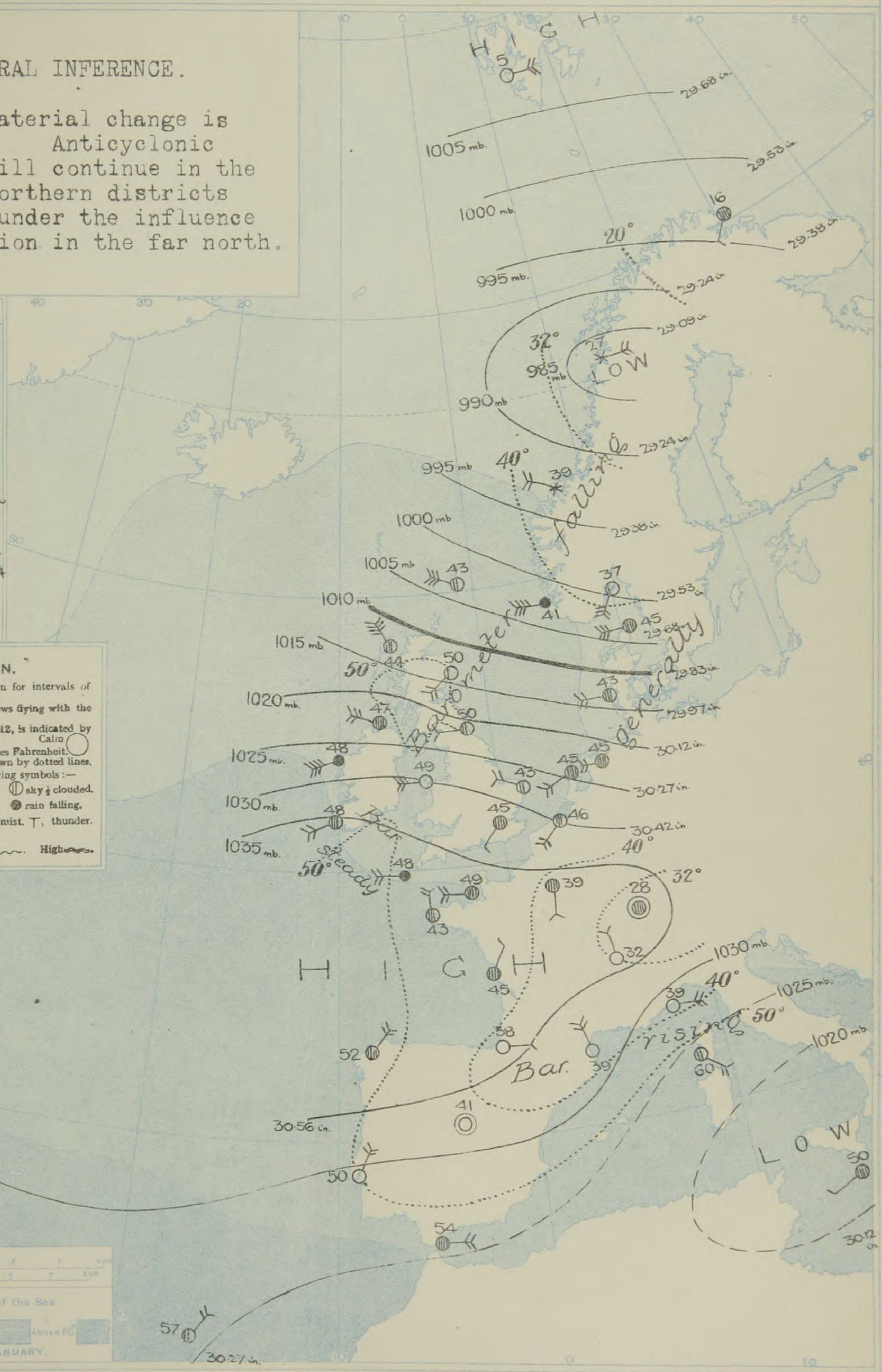
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ½ clouded. ◑ sky ¾ clouded. ◍ sky ⅞ 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 JANUARY.

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

Station Date & Hour.		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Farnborough		Benson		S. Farnborough		S. Farnborough		Benson											
		3rd	7h. 40m	3rd	12h. 13m	5th	7h. 53m	8th	7h. 49m	7th	12h 12m										
Heights in Kilometres.	3					+33	-11	+10	-20												
	2					+20	-9	+5	-4												
	1			+19	-4	+16	-7	+12	-22	+23	-9										
	0.5	+20	0	+16	+2	+16	-2	+13	-1	+18	-2										
	0	+7	0	+8	+1	+5	+1	+7	-4	+7	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	0.3	50	40	p	o	0.0
	Banff	0.2	53	32	o.bc	bc.c	0.1
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	46	33	bc.c.o	o.c	0.4
	Skegness	-	41	31	o.bc	c.om	0.2
Eng., N.W.	Morecambe						
	Blackpool	2	48	43	o	o.c.or.o	0.1
	Southport	2	47	39	o.	or	0.0
Midlands.	Buxton						
	Leamington Spa	0.2	48	38	odm	c.bc	0.0
	Malvern	1	50	42	bc	bc	2.0
	Ross-on-Wye	0.3	53	43	or.bc	bc	2.0
Wales.	Llandudno	2	49	44	c	c	0.1
	Rhyl	1	49	44	p.o	c.o	0.2
	Colwyn Bay	1	47	44	e.bc	bc.o	0.0
	Aberystwyth	1	48	45	r.o.c	c.b	0.0
	Tenby						
England, E.	Lowestoft						
	Felixstowe	-	45	31	bc	bc.om	4.2
	Walton-on-Naze	-	43	32	x.bcm	bc.o.eg	4.7
	Southend-on-Sea	-	49	35	bz.bc	c.of	2.3
England, S.E.	Margate	-	44	39	bc	bc	4.1
	Ramsgate	-	42	35	bc	bcz	5.1
	Hastings	-	47	35	b.bc	bc.o	4.4
	Eastbourne	-	46	37	bc	o	2.2
	Seaford						
	Brighton	-	46	34	bcz.c	c.bc.c	0.1
	Worthing	-	46	32	o	o	0.1
	Littlehampton	-	53	33	o	o	0.1
	Bognor	-	47	36	o.bc	o	0.2
	Southsea	-	49	38	bc	bc	0.3
	Bournemouth	-	52	39	c	c.bc	1.9
England, S.W.	Weymouth	-	53	43	c.b	b	3.9
	Torquay	-	51	46	o	o	0.0
	Paignton	-	52	46	c	c	0.0
	Penzance						
	Newquay	?	50	45	o	o	0.1
	Ilfracombe						
	Weston-super-Mare	-	49	41	bc.b	bc.c	0.6

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.)	90	93	0.0	46	32	30	0.3	o.c	c	c.o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	91	97	0.0	46	34	31	-	f.m	m	bc.o
Camden Sq. (Brit. Rainfall)	-	95	0.0	45	35	32	Trace	-	-	*
Hampstead (Reservoir)	*	94	0.0	44	39	31	Trace	c.of	omd	om
Richmond Park	*	*	0.0							
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	-	95	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
136 Joules	47 Milliwatts.	10 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.	Trace	49	45	43	od.c	c.o	od	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	46	36	23	b	bmw.om	omtm	*

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

Jan. 11th, 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.3 / 8.2	12.1 / 12.1	3.59 / 4.0
Greenwich	8.5 / 8.4	12.8 / 12.8	4.11 / 4.12
Wick	8.53 / 8.57	12.20 / 12.20	3.42 / 3.48
Valencia	8.48 / 8.47	12.49 / 12.49	4.50 / 4.51

NOTES ON YESTERDAY'S WEATHER.

The weather was generally dull, but 6 hours of bright sunshine were experienced at Dover. Slight rain fell in the north and north-west. Temperature was mild.

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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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. 11.

Tuesday 11th January.

	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 ...	1000·9	39	NW	6	oq	1009·9	+6	37	-6	NW	5	NW	bcq	4	8	43	37	oqhsp	oqhsp	bcqsp	*
	Deerness (Orkney)	1005·4	37	WNW	8	ouqp	1013·2	*	38	-6	WNW	6	–	bcqp	5	7	49	35	bc.cqp	c ouqp	cp.bcq	0·3
	Stornoway ...	1014·6	44	WNW	6	oqp	1019·9	+5	41	-3	NW	4	–	c	4	4	45	39	bcqp	bc.cqp	o.cqp	1·7
	Castlebay (Barra Isd.)	1019·8	46	W	6	op	1021·5	+2	46	-4	NW	3	–	op	3	4	50	42	op.bcm	bcm.op	opd.op	0·6
	Glasgow ...	1017·9	45	W	5	c	1018·2	+3	43	-6	W	3	–	b	*	1	50	42	oqp	oqp	odpo.b	0·2
	Eskdalemuir ...	1019·8	45	W	6	or	1018·5	+1	44	-3	WNW	4	–	o	*	5	48	44	o.od.or	or	od	0·0
	Malin Head ...	1023·3	49	WSW	5	cmq	1020·5	0	48	+1	NW	6	–	omqr	7	1	50	47	omq	omq	omqr	0·0
	Blacksod Point	1029·6	49	WNW	5	ogm	1027·7	0	49	+1	W	6	W	ogm	5	1	49	46	om	omd	bc.ogm	*
	Valencia ...	1035·7	51	W	4	o	1034·7	-1	50	+2	WNW	5	–	c	*	–	51	46	bc	o.c	o.c	0·2
	Roche's Point	1034·3	52	W	3	o	1032·6	*	50	0	W	4	W	c	4	0·1	53	47	bc	bc.c.o	o.c.b	*
	Birr Castle ...	1030·4	51	W	3	r	1029·2	*	50	+1	W	3	–	o	*	1	51	45	o	od.r	o	0·0
	Donaghadee ...	1023·5	50	WNW	5	bcmq	1021·1	0	50	0	WNW	4	–	omd	3	Trace	52	49	cmqp	bcmq	bcmq	*
	Liverpool (Bidston)	1025·6	48	WSW	6	c	1020·7	-3	49	0	WSW	7	W	oq	6	–	52	46	o.c	oq	oq	0·1
	Holyhead ...	1027·8	50	W	5	bc	1024·8	-2	50	+1	W	5	–	ogm	4	1	51	48	ogp	bcm	bc.cgm	0·7
	Pembroke (St Ann's)	1032·4	50	WNW	4	c	1029·3	-2	49	0	WNW	5	NW	cq	?	–	50	48	c.b	c.bc	bq.cq	1·6
	Scilly (St. Mary's)	1035·9	48	WNW	5	bc	1034·1	-1	50	+2	WNW	6	W	oq	5	–	51	47	cqp	bc	bc.cq.o	2·2
	Falmouth ...	1035·1	48	WNW	4	bc	1032·9	-2	49	+3	WNW	4	–	c	*	Trace	51	46	o	op.bc.b	bcq	0·9
	Jersey (St. Aubin)	1034·6	49	W	3	oe	1031·8	*	50	+1	W	4	–	o	3	Trace	50	48	odp.me	dp.oe	o.c.b.o	0·3
	Portland Bill ...	1032·4	50	WNW	4	c	1029·3	-3	50	+1	WNW	4	W	c	3	–	51	49	c.bc	bc.c	c.o	*
	Dungeness ...	1028·3	48	W	4	c	1024·0	-3	48	+4	SW	4	–	o	4	–	49	44	bc	bc	bc.c.o	*
	Dover	1028·8	49	SW	4	o	1024·2	-3	47	+3	WSW	4	SW	o	3	–	53	44	bc.bq	b.bc.op	o.b.bc.o	4·5
	Wick	1008·5	42	WNW	4	bc	1014·9	+4	38	-7	WNW	4	–	bc	4	4	45	36	bcqp	bcqp	bcqp	*
	Nairn	1013·1	44	W	7	omq	1018·1	*	40	-11	W	1	–	c	2	1	52	36	qpd.ge	cqd	cmq	0·7
	Aberdeen ...	1011·8	45	WNW	7	bq	1015·8	+3	?39	-11	NW	4	–	c	2	–	53	39	c.bc.bq	c.bc.bq	bcq.c	0·1
	Leith	1015·9	47	NW	3	bc	1017·0	+2	47	-3	NW	1	–	o	4	–	52	45	bcq.o	c.bc	bq.c.o	*
	Tynemouth ...	1018·7	51	WNW	5	cq	1016·1	-3	49	-1	WNW	2	–	omr	3	3	51	48	cq	cq	omr	*
	Spurn Head ...	1021·7	48	NNW	7	bc	1016·9	-2	49	+3	NW	7	–	cq	6	–	50	44	c.oq	bcq	bcq	0·0
	Yarmouth ...	1025·7	49	WNW	4	bc	1018·3	-2	49	+6	NW	5	–	c	5	–	52	42	bcm	bcm	bcm	2·5
	Clacton-on-Sea	1027·2	48	W	3	bc	1022·1	-2	48	+4	WNW	4	NW	o	3	–	51	43	c.bc.c	c.bc	bc.c.o	3·5
	Nottingham ...	1025·4	50	WNW	4	o	1021·3	*	52	+6	WNW	5	W	c	*	–	52	46	o.c	op.c	o.c	0·0
	Benson (Oxon.) ...	1030·2	47	W	2	bc	1025·3	-2	47	+3	SW	5	–	o	*	–	51	44	b.bc	c.o	bc.b	*
	Sth Farnborough	1029·4	47	W	2	bc	1025·6	-3	47	+2	W	4	W	o	*	–	52	44	b.o.b	o.bc	bc.o.bc.o	3·0
	London (Kew Obsy.)	1029·1	49	W	3	bc	1024·6	-3	49	+4	WSW	4	–	o	*	–	52	43	om.c.o	o.c.bc	bc.c.o	2·4
NORTHERN EUROPE.	Spitsbergen ...	1012·3	-13	–	0	b	1015·1	-2	0	-5	–	0	*	o	*	*	5	-19				
	Vardö	994·4	23	S	2	bc	996·8	+3	23	+7	SE	4	–	s	4	*	23	14				
	Bodö	982·6	23	E	2	o	987·9	+3	19	-8	E	4	–	b	2	–	27	18				
	Christiansund	982·4	36	NW	5	c	996·6	+6	34	-5	NW	4	–	s	4	11	39	30				
	Skudesnaes ..	995·4	37	NW	10	b	999·3	0	34	-7	NNW	6	–	c	4	8	41	32				
	Færder (X'ania Fjord)	988·2	36	WSW	5	b	992·3	+3	34	-3	NW	4	–	b	4	–	37	30				
	The Scaw (Skagen)	993·5	43	WNW	8	o	993·2	+1	36	-9	NW	6	–	bc	6	–	45	34				
	Blaavands Huk	1005·9	42	WNW	7	c	1003·0	+2	37	-6	NW	6	–	bc	6	3	46	34				
	Haparanda ...	986·5	19	SE	2	o	987·8	+3	16	+6	NNW	2	–	o	*	3	19	10				
	Hernösand ...	982·3	16	–	0	b	987·1	+4	19	0	W	2	–	c	*	–	28	9				
	Stockholm ...	984·2	32	SW	2	o	984·0	+2	27	-5	W	2	–	o	*	1	34	25				
	Wisby	987·0	37	WSW	4	b	985·3	+1	32	-2	NW	6	–	bc	5	–	37	30				
	Karlstad	986·0	37	WSW	2	c	989·0	+3	27	-10	W	4	–	c	*	–	39	23				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1020·4	46	WSW	7	b	1013·2	-3	46	+1	NW	8	–	o	6	–	48	45				
	C. Gris Nez ...	1028·8	49	W	5	bc	1025·1	-3	48	+2	W	5	*	o	5	–	50	46				
	La Hève	1030·9	46	W	4	f	1030·3	*	47	+1	W	4	*	o	4	–	48	46				
	Brest (St. Mathieu)	1037·7	50	NNW	3	o	1035·7	+1	50	+4	NW	5	*	o	3	Trace	52	45				
	Rochefort (Ile d'Aix)	1037·9	48	W	3	b	1035·4	-3	48	+3	NW	3	*	o	*	Trace	50	45				
	Biarritz	1038·9	45	E	1	o	1035·8	-2	44	+6	SSE	2	*	o	2	–	48	38				
	Paris	1033·9	46	SW	2	o	1029·3	-2	46	+7	WSW	2	–	o	*	–	46	37				
	Belfort	1035·8	34	W	3	o	1031·3	*	36	+8	WSW	4	*	f	*	2	36	28				
	Lyons ... †...	1037·6	37	NW	2	o	1034·3	*	37		–	0	*	o	*	–	42	37				
	Nice	1030·7	42	–	0	b	1026·4	-2	41	+2	–	0	*	b	2	–	52	37				
	Perpignan ...	1032·7	45	NW	4	b	1021·0	-2	46	+7	NW	4	–	b	*	–	50	39				
	Sanguinaire ...	*	58	N	3	b	*	*	53	-7	E	3	*	b	3	–	60	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1037·0	54	NE	5	b	1038·0	-1	45	-7	S	1	–	f	3	–	55	41				
	Madrid (8 a.m.)	1032·3	50	E	3	b	1036·0	0	32	-9	–	0	–	b	*	–	52	30				
	Lisbon (9 a.m.)	1031·1	57	NNE	4	b	1033·1	0	46	-4	NNE	4	–	b	?	–	59	46				
	Gibraltar	1036·5	55	E	6	b	1030·5	*	52	-2	E	4	*	b	3	–	60	51				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1023·0	0	52	+2	E	2	–	c	2	–	59	48				
	Azores (Horta, 8 a.m.)	1029·9	*	SSE	4	o	1032·6	0	59	+2	SSE	4	*	o	3	–	64	55				
	Madeira (Funchal)	1024·4	62	NE	4	bc	1027·4	+1	59	+2	NE	4	NE	bc	4	–	64	55				

South Farnborough

Pilot Balloon Ascent at 7.56 a.m.

500 metres W by N 35 miles per hour.

GALES.

Duration and Extreme Force in British Islands.

Deerness
10th 11am - 6p.m W 8.

Glasgow
10th 8a.m - 1p.m Squalls W 8

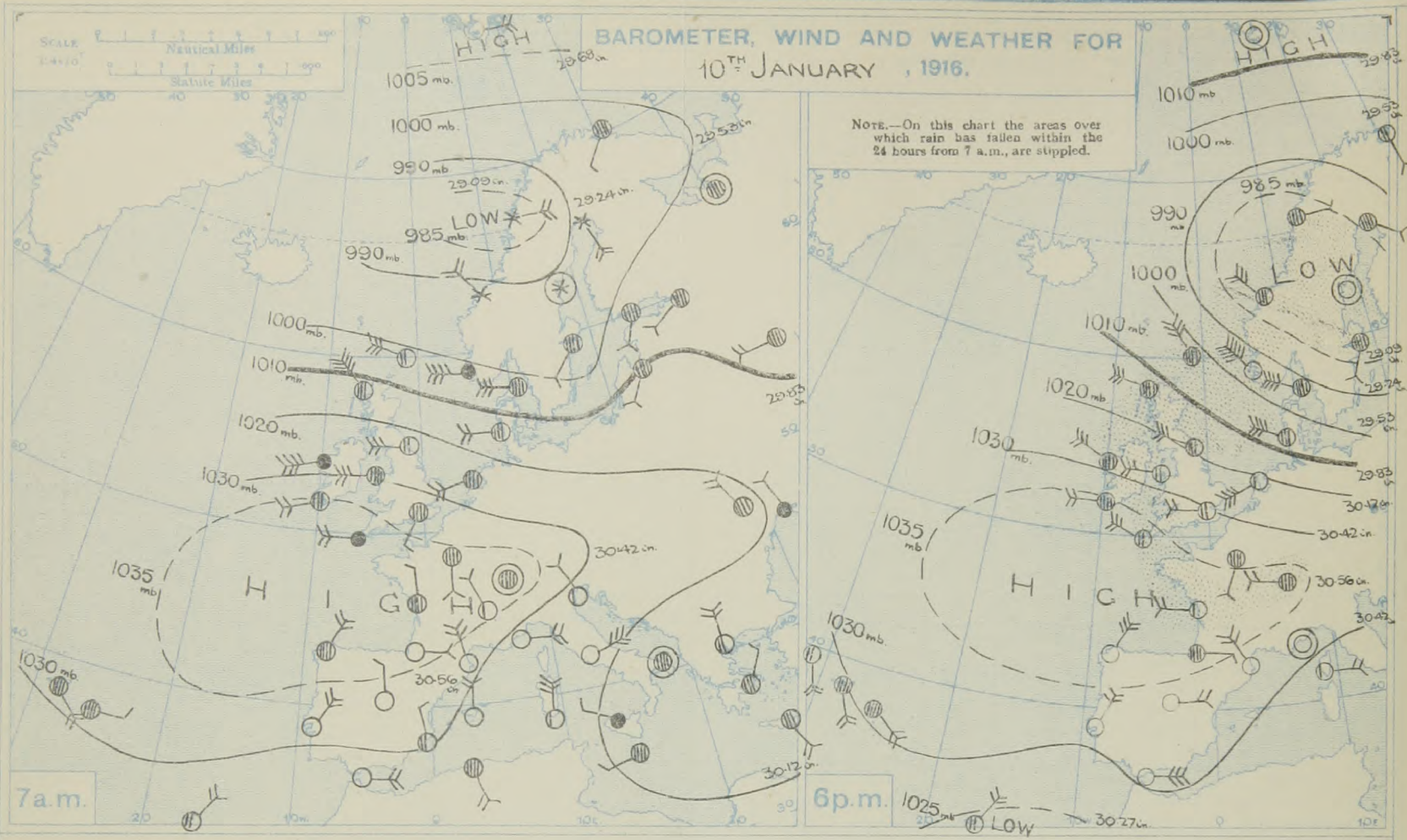
Eskdalemuir
10th 1p.m - ? 4p.m W 8
1p.m Gust W 29 m.p.s
10th 10p.m Ex. W 8
11th 2a.m Ex. W 8

Nairn
10th 2p.m - 5p.m W 8

Aberdeen
10th 1p.m Gust W 23 mps
10th 5p.m " WNW 24 mps.

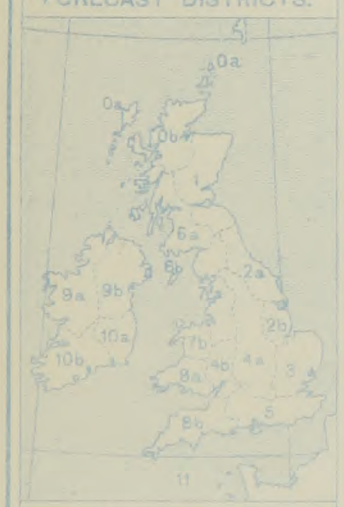
Spurn Head
10th 1p.m - 4p.m WNW 8
11th 1a.m Squalls NNW 8.

* 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 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, 1, 2 a b, 3, 4 a b, 5, 6 a b, 7 a b, 8 a b, 9 a b, 10 a b, 11 Western Channel and Bay

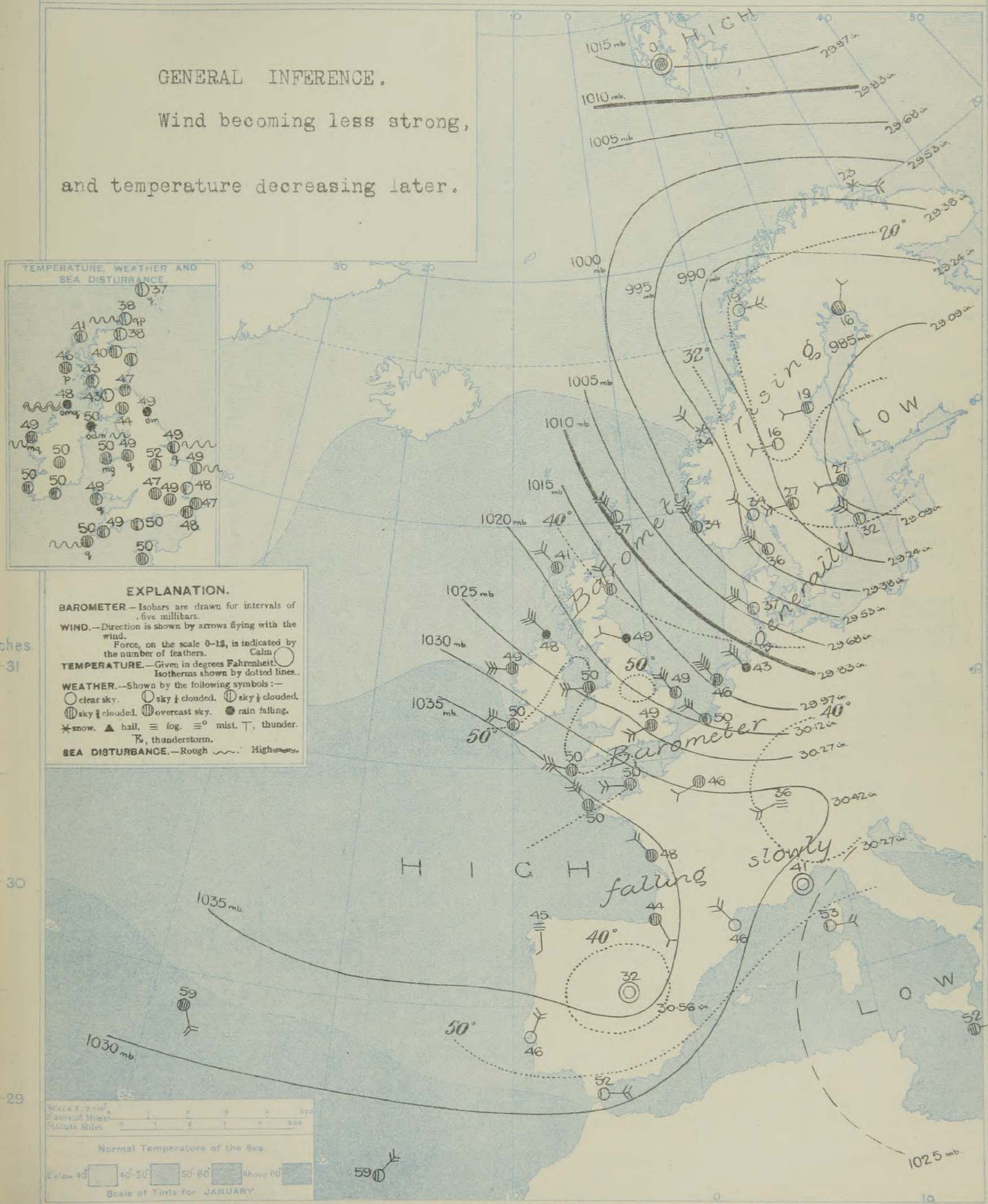
Squally North-Westerly wind, strong at times, moderating later; fair to dull and damp, slight local passing showers; mild to cooler.

FURTHER OUTLOOK.

Fresh North-Westerly breeze in north, moderate Easterly in south; sea moderate to rather rough; dull to fair, local mist or fog; temperature moderate to cool.

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

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 11TH JANUARY, 1916.



Issue No. 19,773 — DAILY WEATHER REPORT. — Tuesday, 11th January, 1916.

REPORTS FOR YESTERDAY.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1007.9	-8	NW	2	b	992.4	-9	10	-14	SSE	4	–	2	*	Trace	14	-9
Hernösand	1010.3	5	NNW	2	bc	990.3	-5	19	+3	–	0	–	3	*	Trace	21	5
Stockholm	1016.0	16	–	0	b	993.2	-7	52	+14	SW	2	–	0	*	4	32	14
Wisby	1017.7	25	N	4	b	998.1	-8	34	+7	WSW	6	–	c	6	8	34	23
Karlstad	1018.1	28	–	0	c	995.4	-5	57	+19	SW	4	–	c	*	Trace	39	12

12th January, 1916.

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	50	40	p	o	0.0
	Banff	1	46	42	c.bc	bcq	2.3
	St. Andrews	–	52	42	*	*	3.0
Eng., N.E.	Harrogate	1	48	44	c.op	o.cp	0.6
	Skegness	–	50	40	o.c	c.o	0.0
Eng., N.W.	Morecambe	1	48	45	od	c.bc.o	0.2
	Blackpool	2	49	46	c.o	o.c	0.0
	Southport	1	49	45	o.c.o	o.c.o	0.4
Midlands.	Buxton						
	Leamington Spa	–	52	40	bc	c.bc.c	2.1
	Malvern	–	52	43	bbc	bc.c	2.8
	Ross-on-Wye	–	54	39	b	b.bc	1.7
Wales.	Llandudno	2	51	47	c	c	0.5
	Rhyl	1	52	47	op.bc	c	1.1
	Colwyn Bay	–	52	43	bc	bc	0.4
	Aberystwyth	1	50	45	p.o	c.o	0.3
	Tenby	–	51	47	bc	b	1.9

	STATIONS.	Rainfall. mm §.	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	0.4	52	34	c	c.bc.c	3.3
	Felixstowe	–	52	32	bc	bc	4.1
	Walton-on-Naze	–	51	40	bc	bc.c.b	3.7
	Southend-on-Sea	–	50	36	bz.bc.b	bc.c.o	2.5
England, S.E.	Margate	–	54	40	b	c	2.8
	Ramsgate	0.2	52	40	bc	bcz	3.9
	Hastings	1	51	40	op.bc.b	b.bc.o	4.7
	Eastbourne	–	?54	42	b	o.b.o	4.4
	Seaford	–	49	41	bc	bc	3.3
	Brighton	–	49	38	o.c.bc.c	c.o.c	3.6
	Worthing	–	50	40	c.bc	bc.c	3.4
	Littlehampton	–	51	47	o.bc	b.bc	3.7
	Bognor	–	52	40	o.bc	b.o	2.8
	Southsea	–	52	41	bc	bc	2.3
	Bournemouth	–	53	42	c.bc	c	2.6
England, S.W.	Weymouth	–	53	45	c.bc.b	b.bc.c	2.2
	Torquay	–	53	47	o.c.bc	bc	2.4
	Paignton	–	54	46	c.bc	bc.c	2.6
	Penzance	1	51	48	cm.c	c	0.3
	Newquay	*	50	46	cm.o	c.bcb	0.4
	Ilfracombe	0.2	51	46	o	c.bc	0.8
	Weston-super-Mare	–	49	44	c.o.c	bc	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. (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.)	80	55	1.9	52	45	40	–	c.bc	c.o	c.o.bc
City (Bunhill Row)	*	*	0.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	86	1.6	52	46	38	–	m	m	m.bc
Camden Sq. (Brit. Rainfall)	79	82	1.1	52	45	40	–	c.bc	c.o	*
Hampstead (Reservoir)	*	85	1.4	49	43	35	Trace	bc.o	od	bc
Richmond Park	*	*	2.4							
Kew. (See front page.)	*	*	2.4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	81	83	2.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
231 Joules	7.9 Milliwatts.	26 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm §	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	Night Min. on Grass. °F.	Weather Night.	Weather Forenoon.	Weather Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	Trace	51	47	44	oq.c	q.cd	cq	*
Darwen to 9 p.m.								
Manchester "	1	52	45	*	or.o	or.o	o.c.bc.c	0.1
Birmingham "					*			
Oxford to 8 p.m.	*	51	41	36	bc.c.o	c.o	o.c	*
Teignmouth to 9 "	–	55	47	42	c.bc	bc	c.bc	1.4
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	52	42	33	o	c.o	o.c.bc	*

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

11th & 12th January, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.2 / 8.2	12.1 / 12.1	4.0 / 4.1
Greenwich	8.4 / 8.3	12.8 / 12.8	4.12 / 4.12
Wick	8.57 / 8.56	12.20 / 12.20	3.43 / 3.44
Valencia	8.47 / 8.47	12.49 / 12.48	4.31 / 4.32

NOTES ON YESTERDAY'S WEATHER.

The day was very mild everywhere. There was slight rain in the north and west. Sunshine was variable, none in places, 4.7 hours at Hastings. A North-Westerly gale was felt at some northern 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.

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.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 12

Wednesday, 12th January

	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.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1022.4	36	NNW	2	b	1015.3	-5	37	0	SSE	3	–	om	2	1	38	34	bcqzp	bc	omp	*
	Deerness (Orkney)	1024.0	38	N	4	bcp	1011.8	*	38	0	SSE	6	–	r	4	1	39	37	bc	bcp	bc.c or	4.3
	Stornoway ...	1026.8	38	N	1	o	1010.0	-10	49	+8	SW	7	–	odq	6	3	49	37	c.bc.c	c.o	odq	0.3
	Castlebay (Barra Isd.)	1026.5	43	–	0	o	1014.8	-7	49	+3	SW	5	–	r	5	4	49	41	op.bc	bc.o	od.r	0.0
	Glasgow ...	1027.8	38	WNW	1	bc	1019.8	-7	42	-1	SW	2	–	omr	*	1	43	36	c.bc.b	bc.c	om.omr	3.3
	Eskdalemuir ...	1028.9	29	SE	1	bc	1022.6	-6	37	-7	NW	2	–	or	*	1	45	26	ov	b	bc.c.or	1.8
	Malin Head ...	1028.0	44	SW	2	Orm	1019.4	-5	46	-2	WSW	5	–	om	4	1	48	43	om	omr	omd	0.0
	Blacksod Point	1030.3	49	W	3	cme	1021.9	-7	48	-1	SW	6	SW	orm	4	1	49	46	cm	cme	cm.ogm	*
	Valencia ...	1035.0	50	W	4	c	1030.1	-3	43	-2	SW	3	SW	o	4	1	51	48	c	bc	o.c.op	0.1
	Roche's Point	1031.0	50	WNW	3	o	1030.6	*	48	-2	WSW	3	–	o	3	0.3	53	47	c	c.o	op.o	*
	Birr Castle ...	1031.4	49	W	2	c	1026.4	*	48	-2	W	1	–	o	*	1	52	47	c	c	c.op	0.7
	Donaghadee ...	1028.2	44	NNW	3	cmg	1022.1	-4	47	-3	W	4	–	ogm	3	2	50	42	omdp	cgm	omp.og	*
	Liverpool (Bidston)	1028.4	?45	WNW	4	o	1025.9	-3	45	-4	SW	3	–	bcm	3	0.4	50	42	oq	op.bc	bc	0.0
	Holyhead ...	1028.8	46	NNE	4	omd	1025.8	-3	48	-2	SW	4	–	om	3	3	51	43	omgq	od.o	od.om	0.0
	Pembroke (St. Ann's)	1030.9	50	NW	4	bcq	1029.5	-2	48	-1	W	4	W	cq	4	–	50	48	cq	cq	c	0.2
	Scilly (St. Mary's)	1033.5	49	NW	6	bcq	1032.2	-1	49	-1	NW	4	NW	ce	5	1	51	47	c.bc	bc.cq	bce.oe	4.3
	Falmouth ...	1032.0	49	NW	4	b	1031.5	-2	48	-1	WNW	3	–	o	*	–	52	47	cq	q.bc	b.bc.o	?1.0
	Jersey (St. Aubin)	1029.9	51	W	4	o	1030.3	*	49	-1	W	2	–	oge	2	–	53	48	o.bc.o	o	oge	1.1
	Portland Bill ...	1028.0	51	NW	4	bc	1029.5	-1	49	-1	NW	2	–	c	2	–	53	48	bc.c	bc	bc.c	*
	Dungeness ...	1026.2	44	NNE	3	r	1028.9	0	37	-11	–	0	–	c	2	1	54	33	o.c.o	o.c.or	p.bc.bc	*
	Dover ...	1027.4	42	NNW	2	r	1029.0	-1	37	-10	–	0	W	m	2	1	52	34	o.c.bc.c	od.r	ode.cgoc	0.6
	Wick ...	1025.0	36	NW	2	bc	1013.0	-12	40	+2	S	3	–	r	3	1	40	33	bcqp	bc	bc.odp	*
	Nairn ...	1026.3	37	NNW	1	og	1014.3	*	43	+3	W	1	–	og	2	–	43	34	c.bc	bc.c	cq	2.6
	Aberdeen ...	1026.2	35	WNW	3	b	1017.7	-8	38	-1	SSW	2	–	o	2	–	40	34	bcq.b	bc.b	b.bc.c.o	3.6
	Leith ...	1027.2	40	NW	1	bc	1019.0	-4	44	-3	WSW	1	–	o	2	–	47	37	bc	bc	bc.o	*
	Tynemouth ...	1027.3	38	NNW	2	b	1022.6	-5	39	-10	WNW	3	–	om	3	2	49	35	bc	bc	bcm	*
	Spurn Head ...	1026.9	41	N	5	cq	1024.3	-1	40	-9	NNW	3	–	om	5	–	49	35	cqp.o	bcq	bcq	0.0
	Yarmouth ...	1025.3	41	NE	5	bc	1028.0	-1	34	-15	W	2	–	bc	2	1	50	32	omr	bc	bcm	0.0
	Clacton-on-Sea	1026.5	42	WNW	2	o	1028.7	-1	37	-11	WNW	1	–	c	1	1	51	32	o	cq.r.oq	oq.cc	0.0
	Nottingham ...	1027.7	43	N	2	b	1026.5	*	41	-11	SW	1	SW	o	*	–	52	37	c.om	o.c.b	b.bc.c	0.0
	Benson (Oxon.) ...	1027.4	47	NNW	5	o	1028.7	-2	41	-6	SSE	2	N	o	*	2	52	36	bc	or	d.b.or	*
	Sth Farnborough	1026.4	49	WNW	4	r	1028.7	-2	42	-5	–	0	–	om	*	1	52	36	o.c.bc.o	o.bc.od	r.o.b.omd	1.1
	London (Kew Obsy.)	1028.0	45	NE	3	od	1028.9	-2	42	-7	SW	2	–	om	*	1	53	39	oc.o	o.od	od.o.om	1.8
NORTHERN EUROPE.	Spitsbergen ...	1014.1	?	–	0	S	1014.9	0	0	0	–	0	*	S	*	*	3	-6				
	Vardö ...															*						
	Bodö ...	1002.1	21	E	4	S	1010.1	+2	30	+11	E	4	–	c	2	9	30	19				
	Christiansund	1010.6	36	NW	4	c	1015.8	-2	36	+2	NW	3	–	c	3	3	36	34				
	Skudesnaes ...	1014.0	37	NNW	8	b	1017.6	0	32	-2	NE	2	–	o	4	1	37	32				
	Færder (X'iania Fjord)	1002.9	37	NNW	5	b	1016.7	+5	32	-2	WNW	4	–	b	2	–	37	30				
	The Scaw (Skagen)	1004.4	39	NNW	5	bc	1015.5	+5	37	+1	N	5	–	b	5	–	39	36				
	Blaavands Huk	1013.1	39	NNW	6	c	1020.2	0	39	+2	NNW	5	–	b	4	Trace	41	34				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...																					
	Karlstad ...														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1021.1	43	NW	5	c	1026.0	0	41	-5	W	2	–	bc	2	1	46	36				
	C. Gris Nez ...	1025.9	44	NW	5	r	1029.0	0	40	-8	SW	1	*	bc	2	1	50	40				
	La Hève ...	1026.3	47	W	5	o	1031.3	*	48	-2	NNE	2	*	m	2	–	48	41				
	Brest (St. Mathieu)	1034.7	50	NW	4	o	1033.2	-1	50	0	N	3	*	o	3	–	52	48				
	Rochefort (Ile d'Aix)	1032.8	49	NW	3	f	1031.4	0	49	+1	SW	4	*	o	*	1	50	48				
	Biarritz ...	1034.0	49	NE	3	o	1032.6	-1	48	+4	–	0	*	o	3	1	50	44				
	Paris ...	1026.9	50	WNW	3	o	1030.4	+1	36	-10	–	0	–	o	*	1	52	36				
	Belfort ...	1026.9	39	WSW	6	r	1029.7	*	32	-4	E	4	*	c	*	6	44	32				
	Lyons ...	1030.9	40	–	0	f	1027.5	*	43	+6	NNW	4	*	o	*	1	44	37				
	Nice ...	1020.8	41	–	0	b	1018.6	+2	43	+2	E	3	*	o	4	–	50	37				
	Perpignan ...	1028.2	48	NW	3	b	1024.6	0	50	+4	NW	6	NW	c	*	–	62	46				
	Sanguinaire ...	*	53	W	2	b	*	*	50	-3	E	4	*	o	5	–	57	46				
SOUTHERN EUROPE.	Corunna (7 a.m.) †	1030.4	54	NE	[illegible]	o	103[illegible]	[illegible]	57		ENE	[illegible]	–	[illegible]	3	[illegible]	54	46				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1029.1	55	NNW	4	b	1027.9	0	45	-1	NE	4	–	b	4	–	59	45				
	Gibraltar ...	1028.8	49	SE	2	b	1027.1	*	43	-9	SE	2	*	b	3	–	57	42				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1016.4	-2	56	+3	NE	4	SE	bc	4	–	57	52				
	Azores (Horta. 8 a.m.)	1033.1	*	SE	3	o	1031.8	-1	57	-2	SE	4	*	o	3	–	63	55				
	Madeira (Funchal)																					

South Farnborough

Pilot Balloon Ascent at 8.20 a.m.

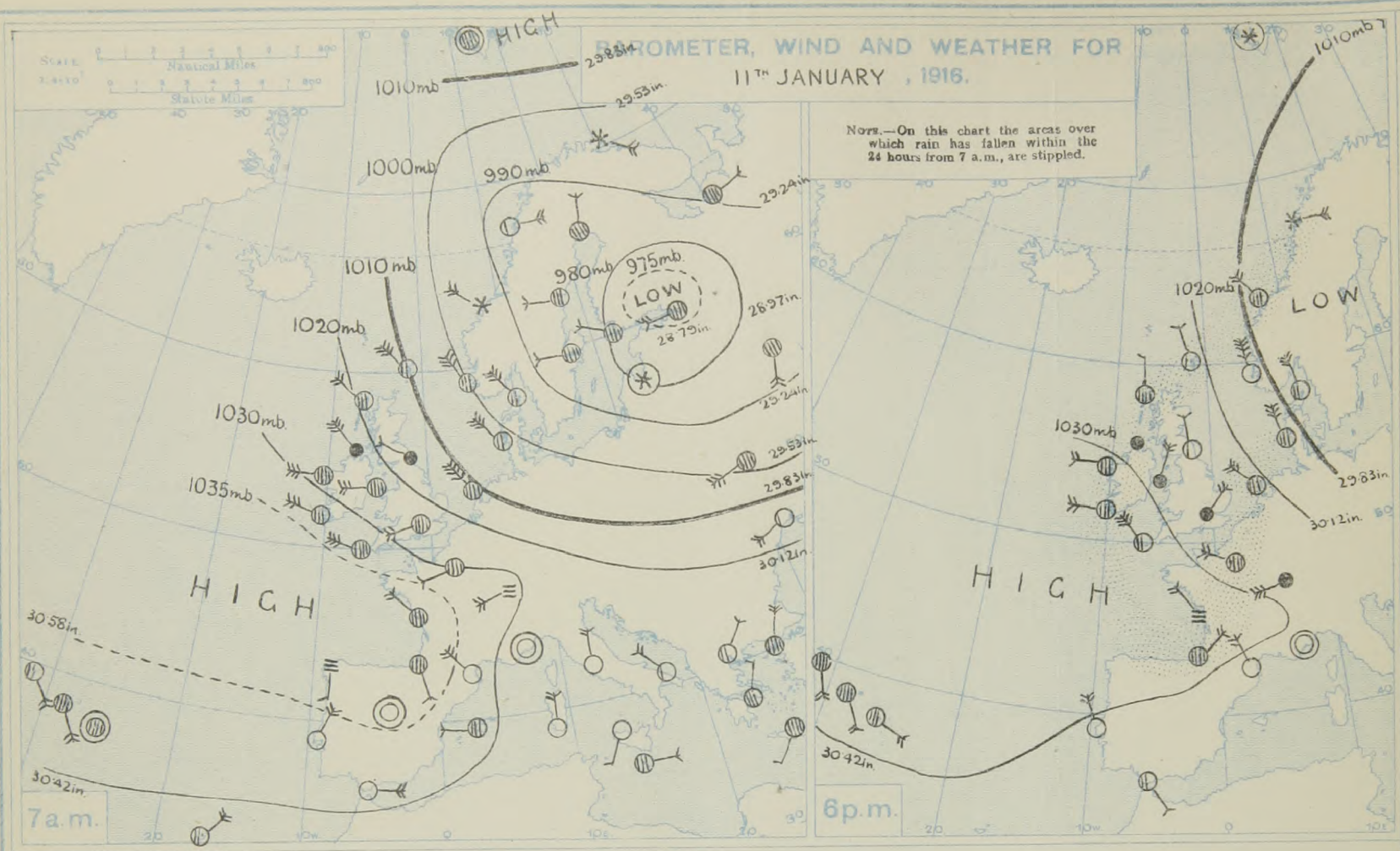
230 metres WSW 13 miles per hour.

RAINFALL.

Equivalents of Millimetres in Inches.

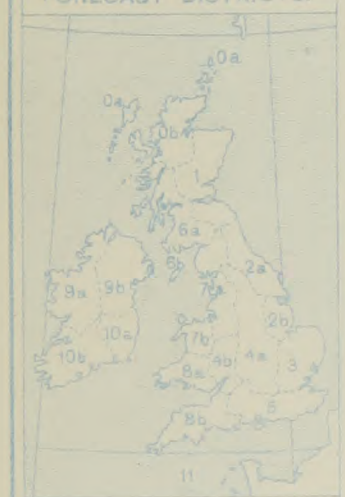
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 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.

0 a, b, 1	Increasing Southerly and South-Westerly winds, squally, strong to gale; unsettled, some rain, mist or fog; mild.
2 a, b, 3, 4 a, b, 5	Light variable to Freshening South-Westerly breezes; fair to dull, damp and misty, some rain later; mild.
6 a, b, 7 a, b	Same as Nos. 0 and 1.
8 a, b	Moderate Westerly breezes, backing South-Westerly and freshening; fair to dull and damp, some rain and mist; mild.
9 a, b, 10 a, b	Same as Nos. 0 and 1.
Western Channel and Bay 11	Wind between North-West and South-West, freshening; sea moderate to rather rough; fair to dull and damp, some rain, mist or fog; mild.

FURTHER OUTLOOK.

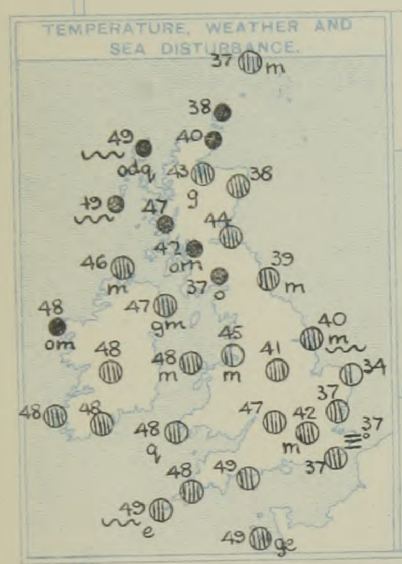
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 12TH JANUARY, 1916.

GENERAL INFERENCE.

The depression in the north-west will occasion less settled conditions.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough . High.

LOW

HIGH

LOW

Bar. falling

Barometer rising

Barometer falling

Bar. rising

1010mb.

1015mb

1020mb

1025mb

1030mb.

29.83in.

29.97in.

30.12in.

30.27in.

30.42in.

1025mb.

1020mb.

32°

40°

Scale of Tints for JANUARY.

Issue No. 19,774

DAILY WEATHER REPORT.

Wednesday, 12th January, 1916.

REPORTS FOR YESTERDAY.

11th January 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	982·6	25	SE	4	S	974·4	-3	27	.	W	3	–	o	*	1	27	21
Rome	1026·0	?	N	3	b	1025·6	0	36		N	8	–	b	*	–	*	*

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						
	Banff	2	41	37	bcb	b.bc	3·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	48	36	o.cp	c.bcb	0·0
	Skegness	1	51	38	our	o.b	0·0
Eng. N.W.	Morecambe						
	Blackpool	2	49	42	od.or	o.c	0·0
	Southport	1	48	44	odr	o.c	0·0
Midlands.	Buxton						
	Leamington Spa	1	51	45	od	od	0·0
	Malvern	0·3	51	45	c	o	0·0
	Ross-on-Wye	–	52	48	o	o	0·0
Wales.	Llandudno	3	51	45	c.bc	c.o	0·0
	Rhyl	1	52	45	o	o	0·0
	Colwyn Bay	1	51	45	bc	bcp	0·0
	Aberystwyth	1	50	48	r.o	c.o	0·0
	Tenby	–	51	48	bc.c.o	o	0·0

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	1	49	41	op.c	c.bc	0·0
	Felixstowe	1	51	41	o	omp	0·0
	Walton-on-Naze	2	45	41	o.c	our.o.c	0·0
	Southend-on-Sea	1	52	43	bz.bc.o	oc	0·2
England, S.E.	Margate	–	50	45	o	oe	0·0
	Ramsgate	–	50	42	o	or	0·1
	Hastings	–	53	44	o.bc	c.o	1·9
	Eastbourne	–	53	47	bc.b.bc	bc	1·9
	Seaford	–	51	46	bc	o	1·8
	Brighton	–	53	46	o.c.o	o.c	1·0
	Worthing	–	53	46	bc	bc	1·3
	Littlehampton	–	53	45	o.bc	bc.o	0·9
	Bognor	–	53	47	c	bc	0·7
	Southsea	–	53	47	bc	bc	0·2
	Bournemouth	–	52	46	c	c.b	0·3
England, S.W.	Weymouth	–	53	48	c	bc	1·1
	Torquay	–	53	47	o	o	0·0
	Paignton						
	Penzance	–	52	48	c.bc	bc	1·8
	Newquay	*	51	48	c	bc	0·5
	Ilfracombe	–	51	47	o	o	0·0
	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. °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.) ...	82	95	0·6	53	38	31	1	bc	bc.ood.o	o.od.o
City (Bunhill Row)	*	*	0·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	80	94	0·7	53	41	33	1	bc.oc	od	m.oc
Camden Sq. (Brit. Rainfall)	81	94	0·5	53	37	32	2	b.bc	c.or	*
Hampstead (Reservoir) ...	*	96	1·2	51	37	26	1	c.odp	c.od.f	of
Richmond Park ...	*	*	1·5							
Kew. (See front page.)	*	*	1·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	80	96	0·9							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
197 Joules	6·7 Milliwatts.	24 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.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	–	53	48	41	bc	c	bc	0·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·3	53	45	37	b.bc	o.c.o	odp.o.oc	*

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

12th & 13th Jan., 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8·2 / 8·1	12·1 / 12·2	4·1 / 4·3
Greenwich	8·3 / 8·3	12·8 / 12·9	4·13 / 4·15
Wick	8·56 / 8·55	12·20 / 12·21	3·44 / 3·46
Valencia	8·47 / 8·46	12·49 / 12·50	4·52 / 4·54

NOTES ON YESTERDAY'S WEATHER.

Temperature was again very high generally. Slight rain fell in various localities. Deerness and Scilly had 4·3 hours of sunshine, but most places had none.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 13.

Thursday, 13th January

	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 0–6.	Past 24 Hours: Rainfall. Millimetres.	Temp.: Max. °F.	Temp.: Min. °F.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	985.7	46	SW	6	cq	985.3	+9	39	+2	N	8	–	cq	7	29	47	37	cmq	cmq	cqp	*
	Deerness (Orkney)	989.5	43	W	6	cqp	991.9	*	38	0	NW	9	–	qp	7	9	48	36	r	r.mp.c	qp	0.0
	Stornoway ...	995.8	44	W	7	cqpl	1010.5	+5	38	-11	N	8	–	bcq	7	8	50	37	o.cqp	o.cqpl	c.bc.bmq	0.0
	Castlebay (Barra Isd.)	999.9	47	W	6	cp													p.o	o.bc.cp		
	Glasgow ...	1003.1	47	WSW	5	cqr	1008.4	+2	38	-4	WNW	5	–	bq	*	5	48	36	cmr.cp	cqp	o.mp.b	0.0
	Eskdalemuir ...	1005.8	47	WSW	6	cr	1008.0	+2	36	-1	WNW	7	–	bc	*	4	48	35	cmr	cmd	qp.c.bc	0.0
	Malin Head ...	1005.5	47	WSW	8	cmq	1010.1	+1	44	-2	WNW	7	W	cqp	7	2	46	38	cmdq	cmq	cqp	0.0
	Blacksod Point ...	1015.5	48	WSW	7	cmd	1022.6	+1	44	-4	NW	6	NW	cm	6	2	49	40	cfl	qfl	bc.cm	
	Valencia ...	1022.9	51	WSW	5	m	1026.1	+1	46	-2	NW	5	–	c	*	1	52	46	cmd	cmd	o.c	0.0
	Roche's Point	1022.1	52	W	3	c	1024.6	*	46	-2	WNW	3	–	o	3	1	52	46	cqp.c	cq	cqp.o	*
	Birr Castle ...	1016.0	51	W	3	o	1022.1	*	42	-5	W	3	–	o	*	1	51	40	c.or	cf.r	c.o	0.0
	Donaghadee ...	1008.5	50	W	5	cmqp	1018.3	+1	42	-5	WNW	7	NW	bcmqp	5	0.4	51	41	cmqp	cgmq	bcmqp	*
	Liverpool (Bidston)	1012.6	50	SW	6	o	1012.3	0	42	-3	W	6	W	cq	6	1	50	41	bc	cdq	cqp	0.7
	Holyhead ...	1013.7	50	SW	5	cgm	1015.4	-1	45	-3	NW	8	NW	cq	7	1	51	39	o.c.o.c	o.cm	cp.bcq	0.1
	Pembroke (St. Ann's)	1019.6	49	W	6	cmq	1019.8	0	46	-2	NNW	5	NW	bcq	5	1	49	45	cqp	cqp	cq.bcq	0.1
	Scilly (St. Mary's)	1025.4	49	W	6	cmp	1022.4	0	48	-1	NW	6	NW	cq	6	1	50	47	cm.cp	cp	cmd.cq	1.1
	Falmouth ...	1024.3	49	WSW	4	c	1021.9	+1	47	-1	NNW	4	–	bc	*	2	50	47	o.c.o	cd.bc.c	rq.c	0.2
	Jersey (St. Aubin)	1026.4	50	W	3	o	1020.0	*	49	0	WNW	4	W	c	5	3	52	48	cp.o	o	cdp.c	0.5
	Portland Bill ...	1022.8	49	W	4	o	1016.9	+1	47	-2	NW	5	NW	c	4	1	52	47	c	c.cp	cr.c	*
	Dungeness ...	1021.8	47	SW	3	c	1011.3	+3	44	+7	NW	4	NW	cq	3	4	46	36	bc.or	p.bc	crq.c	*
	Dover ...	1023.8	45	SW	4	c	1011.0	+3	42	+5	NW	6	NW	bc	4	2	48	37	z.c	ce	o.c.bc	0.0
	Wick ...	992.0	43	WSW	4	bc	995.4	-2	44	+4	NNW	8	–	o	7	4	50	33	cm	bcqp	bc.cmq	*
	Nairn ...	995.1	44	W	6	cq	1004.5	*	35	-8	NNW	9	–	cq	7	6	52	33	o.cq	u.cp.rq	qr.p.r.o	0.0
	Aberdeen ...	996.1	51	WSW	5	o	998.4	0	37	-1	WNW	9	–	cqp	4	2	51	35	cmq	o	o.bcqlo	0.0
	Leith ...	1000.9	49	SW	6	o	1005.1	0	40	-4	NNW	6	–	c	5	1	50	37	cp.ce	cq.cq	cm.c	*
	Tynemouth ...	1005.8	51	WSW	4	o	1004.4	+2	38	-1	W	5	–	bq	*	1	51	37	fd	cm	bq	*
	Spurn Head ...	1011.3	45	W	6	o	1005.3	+1	40	0	NNW	8	–	bcq	7	2	46	37	cm.o	r.cq	cqp	0.0
	Yarmouth ...	1016.7	45	WSW	3	c	1006.3	+2	41	+7	NNW	7	–	bq	5	2	45	33	bc.o	o.cf	cm.cqp	0.0
	Clacton-on-Sea	1019.0	45	SW	4	o	1008.8	+1	42	+5	WNW	6	–	b	4	1	48	37	c.cgmr	cgm	cg.bc.b	0.0
	Nottingham ...	1014.5	49	SW	3	o	1010.6	*	43	+2	NW	5	NW	c	*	1	51	40	o.c	c.o	cp.c	0.3
	Benson (Oxon.) ...	1019.4	47	SW	4	o	1014.2	+2	42	+1	WNW	3	–	bc	*	1	49	41	-	.	o.bcqp	*
	Sth Farnborough	1020.1	46	WSW	3	o	1013.4	+1	43	+1	WNW	5	SW	b	*	1	49	41	mr.o	c.or.o	o.b	0.3
	London (Kew Obsy.)	1019.6	48	SW	4	o	1012.9	+1	45	+3	NW	5	–	o	*	0.4	50	42	cmd.cmr	cm.c.o	o.cd.cq	0.0
NORTHERN EUROPE.	Spitsbergen ...	1015.3	-24	S	2	b	1016.3	0	-17	-17	–	o	*	o	*	*	o	-29				
	Vardö ...	1012.3	18	S	1	b	1001.5	-2	12	-7	W	1	–	b	3	*	19	12				
	Bodö ...	1007.8	19	E	2	b	1002.3	-1	21	-9	E	2	–	b	2	–	30	16				
	Christiansund ...	997.3	34	–	0	o	984.2	+3	26	0	E	2	–	o	4	–	36	32				
	Skudesnaes ...	995.9	32	ESE	10	s	971.9	-13	34	+2	ESE	10	–	r	7	?	34	32				
	Færder (Kristiania Fjord)	1009.1	32	SSE	3	o	977.6	-11	28	-4	ESE	9	–	s	4	?	32	28				
	The Scaw (Skagen)	1011.8	36	S	3	o	978.7	-7	37	0	SSW	5	–	o	4	–	37	28				
	Blaavands Huk	1011.1	39	W	2	r	984.0	-7	41	+2	WNW	7	–	o	5	7	41	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...																					
	Karlstad ...														*							
	Petrograd (9 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015.7	45	SSW	5	o	999.3	0	48	+2	NW	7	–	c	6	3	46	41				
	C. Gris Nez ...	1020.4	47	SW	5	r	1011.7	+3	46	+6	WNW	6	*	bc	5	2	48	40				
	La Hève ...	1022.1	47	S	3	f	1016.0	*	46	+1	NW	6	*	o	5	2	48	41				
	Brest (St. Mathieu)	1029.3	50	WNW	4	o	1024.3	0	50	0	N	5	*	o	3	2	54	48				
	Rochefort (Ile d'Aix)	1029.9	50	NW	2	o	1023.7	-2	48	-1	WSW	6	*	r	*	Trace	52	48				
	Biarritz ...	1030.4	51	NE	2	f	1028.0	-1	50	+2	WNW	3	*	f	3	2	52	48				
	Paris ...	1026.0	43	S	1	o	1014.1	-3	48	+12	W	4	–	o	*	2	48	36				
	Belfort ...	1028.2	34	–	0	c	1017.9	*	36	+4	WSW	7	*	o	*	?	41	29				
	Lyons ...	1029.5	35	NNW	2	b	1023.3	*	34	-9	–	0	*	o	*	–	46	32				
	Nice ...	1021.1	45	–	0	b	1017.1	-2	41	-2	–	0	*	c	3	–	52	39				
	Perpignan ...	1025.0	50	NW	4	b	1023.4	-2	48	-2	NW	4	NW	b	*	–	55	48				
	Sanguinaire ...	*	52	E	3	m	*	*	51	+1	E	2	*	o	4	–	63	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1032.8	54	NE	5	b	1032.3	0	43	-7	S	1	–	f	2	–	54	41				
	Madrid (8 a.m.)	1026.7	48	NNW	1	b	1030.6	0	32	0	–	0	–	b	*	–	50	30				
	Lisbon (9 a.m.)						1027.1	0	48	0	N	2		b	2	–	55	45				
	Gibraltar ...	1026.1	49	NW	2	b	1025.0	*	43	*	NW	3	*	b	1	–	59	42				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1015.4	+3	54	-1	N	6	–	b	6	Trace	57	52				
	Azores (Horta, 8 a.m.)	1029.3	*	SE	4	bc	1023.9	-2	59	+2	SE	5	*	o	3	–	61	57				
	Madeira (Funchal)	1026.7	63	NE	3	c	1026.0	0	57	+2	NE	2	–	o	2	–	64	55				

South Farnborough.

Pilot Balloon Ascent at 7.57 a.m.

1000 metres NW 46 miles per hour

500 " NW 55 " " "

GALES.

Duration and Extreme Force in British Islands

Lerwick
13th 1 a.m – 4 a.m SSW 9
13th 4 a.m – 7 a.m NW 8

Deerness
12th 11 p.m – 13th 7 a.m NW 9

Stornoway Ex. NW 10 @ 6 a.m.
During day of 12th Squalls W 8
" night " " NNW 9

Glasgow
12th 9 p.m – 13th early morning W 8

Eskdalemuir
12th 4 p.m SW 8
12th 5 p.m WSW 8
12th 10 p.m – 13th 1 a.m WNW 8
Ex. WNW 10 @ Midt.

Malin Head
12th 4 p.m – 4 a.m NW 8
Ex. NW 9 @ 1 a.m

Liverpool
12th 8 p.m – 13th 1 a.m WSW 8

Holyhead
12th 6 p.m NW 8
12th 9 p.m WNW 8
13th 1 a.m WNW 8

Wick
12th 10 p.m – 13th 7 a.m NW 8
Ex. NW 10 @ 4 a.m
Ex. NW 10 in Squalls between 6 p.m & 8 p.m

Nairn
12th 8 p.m – 13th 6 a.m NNW 8
Ex. NNW 10 in early morning.

Aberdeen
12th 11 p.m – 13th 7 a.m WNW 8
Ex. WNW 9 @ 2 a.m
Gust. WNW 28 mps @ 6.30 a.m

Spurn Head
12th 11 a.m – 13th 7 a.m W 9 in Squalls
from 12th 4 p.m – 7 a.m NNW 9.

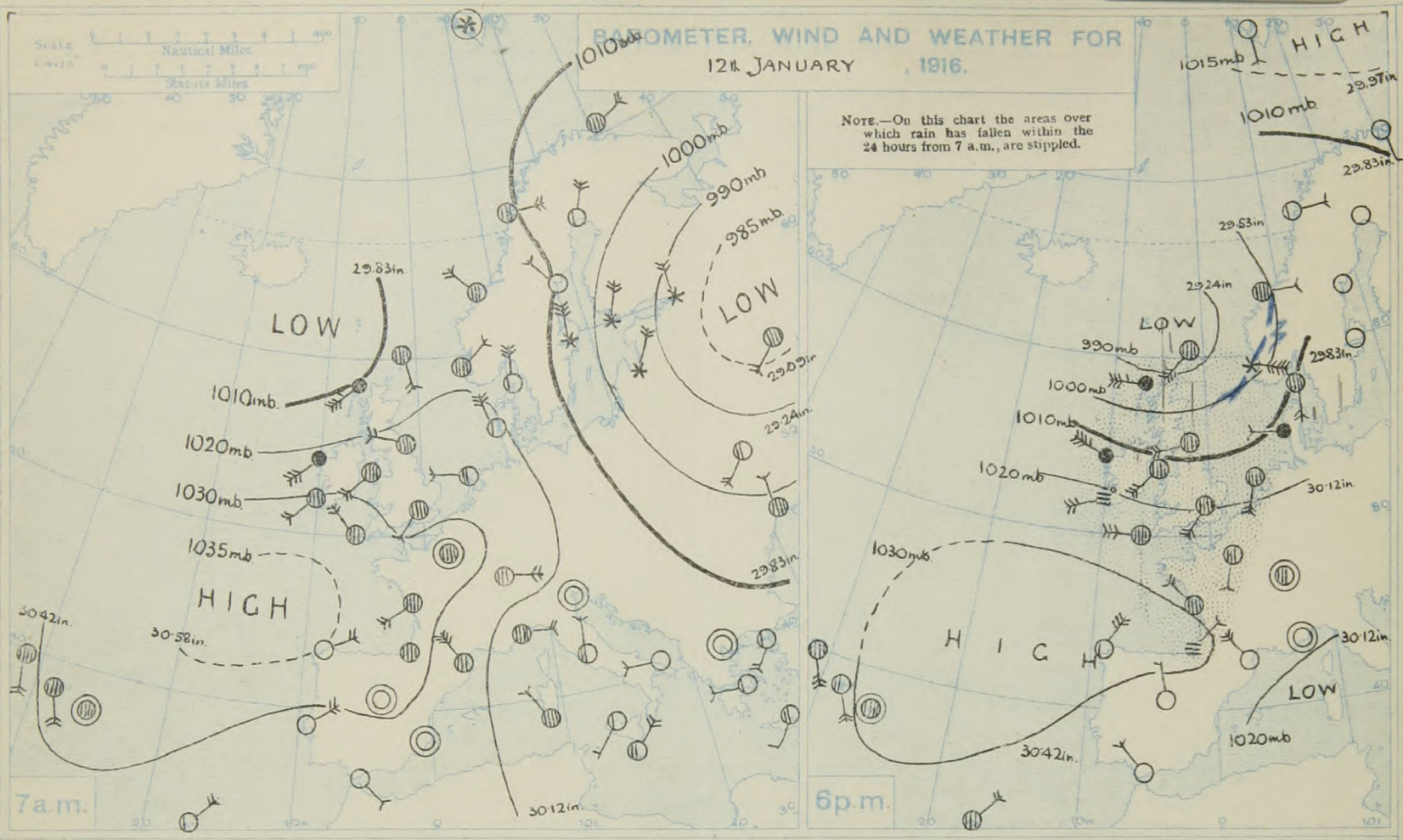
Yarmouth
13th 4 a.m NNW 8

London (Kew Obsy.)
13th 4.10 a.m NW 8.

Southport
12th 9 p.m, Midt, 13th 3 a.m – 6 a.m NW 8
Gusts NW 30 mps.

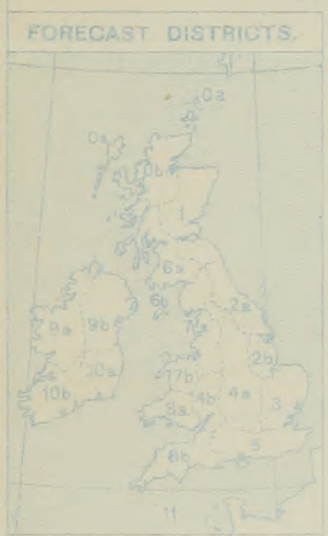
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars

BAROMETER, WIND AND WEATHER FOR 12th JANUARY, 1916.



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.

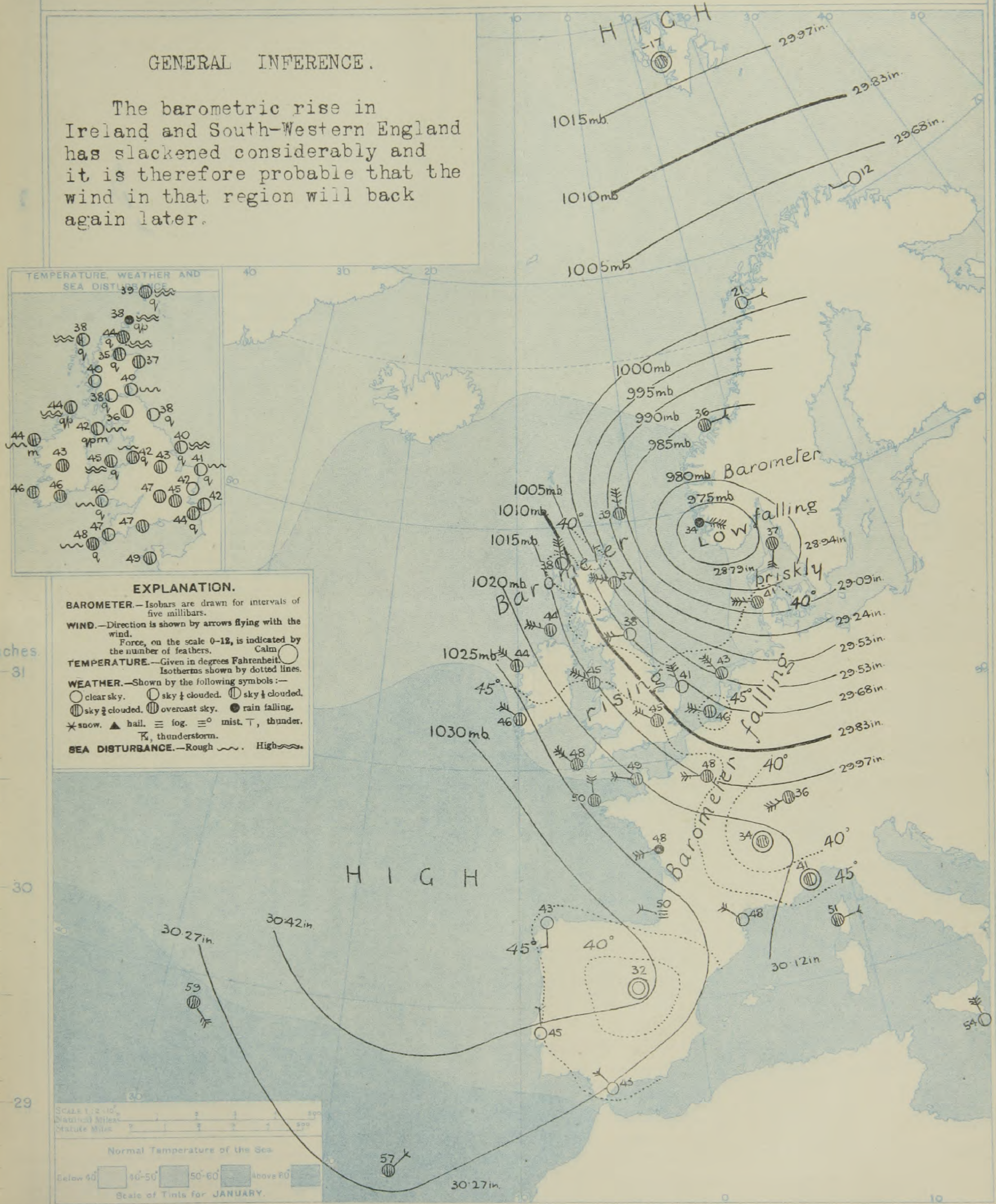
0 a, b; 1; 2 a, b	Squally North-West to North gales, moderating later; fine to cloudy or overcast, some rain, hail or sleet showers; rather colder.
3; 4 a, b; 5	Squally North-Westerly to Northerly fresh to strong or high winds, moderating later; fine to cloudy or overcast, local passing showers; rather cooler.
6 a, b; 7 a, b	Same as Nos. 0 to 2.
8 a, b	Squally North-West wind, fresh or strong at times, backing Westerly later; fair generally, some showers; mild.
9 a, b	Squally North-Westerly strong to high wind, gale locally, backing Westerly and moderating; fair to dull, some showers; mild.
10 a, b	Same as No. 8.
Western Channel and Bay 11	Squally Northerly to North-Westerly or Westerly wind, strong to high at times; rough to high sea and swell; changeable, some rain, mist or fog; moderate temperature.

FURTHER OUTLOOK.

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

Millibars 1050 1040 1030 1020 1010 1000 990 980 970
Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 13TH JANUARY, 1916.



Issue No. 19,775

DAILY WEATHER REPORT.

Thursday, 13th January, 1916.

REPORTS FOR YESTERDAY.

13th January 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Vardö	1002.6	25	ENE	6	s	1006.3	+3	19	-4	ENE	3	–	o	3	*	25	14
Haparanda	945.8	18	NNE	4	o	1007.5	+4	0	-16	NNE	4	–	b	*	–	18	0
Hernösand	996.7	16	–	0	b	1010.0	+5	12	-7	NW	2	–	b	*	–	19	12
Stockholm	993.7	21	N	2	*	1007.8	+6	18	-9	N	6	–	8	*	–	27	18
Visby	994.0	27	NNW	6	o	1006.4	+6	23	-9	N	6	–	c	6	–	32	21
Karlshus	978.0	32	WNW	4	o	1012.0	+3	27	0	–	0	–	b	*	–	32	21
Petrograd	977.5	21	N	2	o	988.2	+6	14	-13	N	4	–	8	*	–	27	14
Madrid	1029.9	48	–	0	b	1031.8	0	32	0	–	0	–	b	*	–	48	30
Rome	1022.2	43	W	2	b	1018.6	0	36	0	N	2	–	bc	*	–	*	*

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	5	49	32	r o	o	0.0
	Banff	1	52	33	o.bc	bcp bc	0.1
	St. Andrews	–	50	32	*	*	0.0
Eng. N.E.	Harrogate	0.7	47	32	b.bc.o	orq	0.0
	Skegness	0.3	47	31	o.bc	bc.o	0.7
Eng. N.W.	Morecambe	1	48	47	d.o	od	0.0
	Blackpool	2	49	40	o.bc	or oq	0.9
	Southport	1	49	41	o.c.o	oprq.c	0.7
Midlands.	Buxton						
	Leamington Spa	0.2	49	41	c	c	0.2
	Malvern	–	49	42	c	c	0.0
	Ross-on-Wye	3	50	42	or.c	bc	0.3
Wales.	Llandudno	0.3	50	43	c.cp	c.cp	0.5
	Rhyl	0.3	52	42	b.c	c	0.9
	Colwyn Bay	–	51	43	bc	c	0.3
	Aberystwyth	1	49	46	r.o.	o.c.orc	0.0
	Tenby	1	51	45	bc.c.o	odg	0.6

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England. E.	Lowestoft	1	45	32	omp	o.c	0.0
	Felixstowe	1	45	33	omp	om	0.0
	Walton-on-Naze	0.4	45	34	o.cmd	o cm	0.0
	Southend-on-Sea	0.3	46	38	og.c.bc	bc.og	0.1
England. S.E.	Margate	1	46	35	o	or.o	0.0
	Ramsgate	1	45	33	or	r.c	0.0
	Hastings	2	47	38	orc.o	o.c	0.0
	Eastbourne	1	48	38	o	bc.o	0.0
	Seaford	1	51	38	o	o	0.0
	Brighton	1	48	40	od.o.c	c.od.o.c	0.1
	Worthing	2	48	39	e.m.c	c	0.0
	Littlehampton	1	49	45	o	o.bc	0.1
	Bognor	1	50	42	o	o.c	0.0
	Southsea	1	51	43	o	o	0.7
	Bournemouth	1	52	44	o	c.o	1.2
England. S.W.	Weymouth	0.2	51	45	c.bc	cp.c	0.4
	Torquay	–	51	48	op.c	c.o	0.5
	Paignton						
	Penzance	–	51	48	c	om	0.1
	Newquay	*	49	47	c	od	0.0
	Ilfracombe	0.1	51	47	o	c.od	0.5
	Weston-super-Mare	–	49	42	o.c	o.bc	0.7

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature (24 hours ended 9 a.m. To-day) In Screen Max. °F.	In Screen Min. °F.	Min. on Grass. °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.)	83	69	0.8	49	42	37	1	o.od	o.c	c.bc
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	86	69	0.5	54	40	37	1	or	oe.bc	bem
Camden Sq. (Brit. Rainfall)	84	72	0.0	50	42	37	1	om.o	o	*
Hampstead (Reservoir)	*	77	0.4	48	39	31	1	c.od	cp	bc
Richmond Park	*	*	0.6							
Kew. (See front page.)	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	72	0.7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
? 127 Joules	? 4.3 Milliwatts.	8. 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.								*
Darwen to 9 p.m.								
Manchester ,,	2	51	44	*	od	o	or	0.1
Birmingham ,,	0.2	48	40	36	or	o	o	0.0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	Trace	51	48	45	c	cp.c	bc	0.4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	50	41	29	od.c.bc.c	c.omd.	om.o.	*

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

13th & 14th January, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.1 / 8.0	12.2 / 12.2	4.3 / 4.4
Greenwich	8.3 / 8.2	12.9 / 12.9	4.15 / 4.16
Wick	8.55 / 8.54	12.21 / 12.21	3.46 / 3.45
Valencia	9.46 / 9.45	12.50 / 12.50	4.54 / 4.55

NOTES ON YESTERDAY'S WEATHER.

Temperature passed 50° at a number of stations. Lerwick had 29 millimetres of rain, elsewhere only slight falls. There was little or no sunshine. A Southerly to Westerly and Northerly gale was experienced in many northern localities.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 14

Friday, 14th January

	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 ...	1012·6	37	N	5	cq	1015·9	0	34	−5	—	0	—	bc	0	3	41	32	cqp.c	cqp	bcx	*
	Deerness (Orkney)	1014·2	39	NW	6	bc	1015·9	*	37	−1	SSW	4	—	o	4	1	45	34	qp.bc	bcq	bc.c.o	0·2
	Stornoway ...	1021·6	38	N	5	bq	1014·2	−8	40	+2	SW	6	—	oq	5	1	41	35	bcqp	bc.bq	b.oq	1·4
	Castlebay (Barra Isd.)	1021·9	42	NW	4	bc	1018·1	−7	45		SW	5	—	c	5	?	45	37	ohqp.c	bc.ot.c	bc.o.c.o	0·1
	Glasgow ...	1019·8	37	NW	2	c	1022·1	−2	36	−2	WSW	1	NW	c	*	—	41	28	x.bq	b.bc.c	c.bc.bq	5·3
	Eskdalemuir ...	1018·4	36	NW	5	b	1023·2	0	32	−4	SE	2	—	o	*	—	39	30	bc	bc	b.bc.c.o	5·6
	Malin Head ...	1023·5	42	N	6	cq	1020·7	−3	42	−2	SW	4	SW	cm	5	1	41	39	cqp	cq	cm	0·2
	Blacksod Point ...	1027·4	43	NNW	3	cm	1022·9	−5	46	+2	SW	4	SW	ofdc	3	0·4	48	40	cm	cm	cm	*
	Valencia ...	1028·2	45	N	2	o	1027·6	−2	45	−1	SE	2	—	d	3	0·1	49	38	c	c	o	0·0
	Roche's Point	1028·3	44	NNW	2	o	1028·6	*	43	−3	WSW	1	—	o	2	—	48	41	o.cq	c.o	c.bc.o	*
	Birr Castle ...	1026·4	42	W	2	c	1026·2	*	40	−3	—	0	—	o	*	—	45	37	c	c	c.o	2·2
	Donaghadee ...	1021·5	42	N	7	bcmq	1023·5	0	37	−5	SW	2	SW	cm	2	Trace	44	37	cmq	bcmqp	bcq.cm	*
	Liverpool (Bidston)	1019·8	42	W	5	b	1024·6	0	41	−1	WNW	2	—	o	3	1	44	39	bcq	bcq	b.o	2·8
	Holyhead ...	1023·7	44	NNW	8	bcq	1025·4	0	43	−2	NW	4	—	c	4	Trace	45	42	c.bc	bc.cp.b	c.bc.c	1·7
	Pembroke (St. Ann's)	1024·0	44	NNW	3	cq	1027·8	+1	43	−3	NNW	2	N	c	3	—	46	40	bcq	bcq	c.bc	2·5
	Scilly (St. Mary's)	1025·4	46	NW	6	cq	1028·5	+1	45	−3	NNW	2	NW	c	4	—	50	43	o.cq	cq	cq	0·2
	Falmouth ...	1025·3	45	NNW	3	c	1028·5	+1	40	−7	N	1	—	o	*	—	47	40	bc	bc.c	c.o	1·2
	Jersey (St. Aubin)	1022·3	47	WNW	3	c	1027·5	*	41	−8	NNW	2	—	b	1	—	50	40	c	c	o.b	2·8
	Portland Bill ...	1019·9	45	NW	5	bc	1026·2	+1	40	−7	NNW	2	—	b	3	—	48	40	bc	bc	bc.b	*
	Dungeness ...	1013·9	39	NW	5	b	1022·9	+3	32	−12	WNW	3	—	bx	3	—	46	31	bc	bc.b.	b.bcx	*
	Dover ...	1012·9	40	NW	8	b	1023·6	+3	34	−8	NW	4	—	b	3	0·2	44	34	bc.c	c.bc.b	b	4·5
	Wick ...	1015·3	38	NNW	5	c	1017·1	−3	36	−8	WSW	2	—	o	4	2	47	33	cqhp	cqhmp	c.ogm	*
	Nairn ...	1018·6	37	NW	4	bcq	1018·0	*	37	+2	W	1	—	og	2	1	41	33	q.bc.cp	bcqp	bc.cq	0·7
	Aberdeen ...	1014·8	40	NW	5	bc	1019·8	−1	36	−1	W	3	—	o	2	2	41	34	bcqph	bcqph	bcrh.o	1·4
	Leith ...	1017·5	41	NW	5	b	1021·4	0	36	−4	SW	1	SW	c	3	—	43	35	bc	bcq.c	bc.c	*
	Tynemouth ...	1013·0	40	NW	4	bc	1021·9	+2	34	−4	W	2	W	cm	4	—	42	32	bcq	bcq.	cm	*
	Spurn Head ...	1009·8	42	NNW	9	cq	1021·4	+2	36	−4	N	7	—	bcqp	7	3	42	35	bcq	bcq	bcqp	4·5
	Yarmouth ...	1009·1	40	NNW	8	bc	1020·0	+4	37	−4	NNW	3	—	bc	4	2	43	36	bcq	bcqp	bcqp	4·8
	Clacton-on-Sea	1012·8	40	WNW	6	bc	1022·7	+3	34	−3	NW	3	—	b	2	—	44	34	b.bc.c	c.bc	bc.b	5·7
	Nottingham ...	1016·7	41	NW	4	c	1023·9	*	35	−8	W	2	W	c	*	—	44	32	c.b	bc.c	c.b	4·3
	Benson (Oxon.) ...	1018·3	39	NNW	5	b	1026·0	+3	29	−13	—	0	—	b	*	—	45	29	bcqp	b	b	*
	Sth Farnborough	1017·7	40	WNW	4	b	1025·5	+2	29	−14	—	0	—	bx	*	Trace	49	29	bc.b.o.bc	p.bc.b	bx.	4·6
	London (Kew Obsy.)	1016·7	41	NW	5	b	1025·7	+3	34	−11	W	1	—	bmx	*	0·1	46	33	o.c.bcqm.c	c.bq.oc.bo.b	c.bmx	?
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö ...	1002·7	16	—	0	b	1005·1	0	16	+4	S	1	—	bc	2	*	16	10				
	Bodö ...	1005·1	21	E	4	c	1004·3	−2	27	+6	SW	4	—	c	2	?	27	18				
	Christiansund	1005·7	28	NE	2	b	1011·1	0	30	−6	—	0	—	o	4	—	36	23				
	Skudesnaes ...	997·7	28	NNE	5	c	1013·7	+3	23	−11	NE	1	—	b	3	?	34	23				
	Færder (Christiania Fjord)	?	27	NNE	8	o	1014·6	+6	21	−7	NNE	4	—	b	2	?	28	19				
	The Scaw (Skagen)	983·7	36	E	4	r	1010·7	+11	27	−10	ENE	5	NE	c	5	?	39	16				
	Blaavands Huk	983·0	37	NNW	7	o	1009·3	+11	32	−9	NNE	5	—	o	6	1	43	30				
	Haparanda ...	1008·6	−2	N	2	o	1009·5	0	−6	+3	S	2	—	o	*	—	5	−9				
	Hernösand ...	1009·7	5	N	2	c	1014·0	0	10	+5	S	2	—	b	*	Trace	14	3				
	Stockholm ...	998·6	23	E	5	o	1011·9	+7	18	0	NE	4	—	o	*	3	25	18				
	Wisby ...	992·6	27	E	6	s	1006·4	+8	21	−4	ENE	4	—	c	4	8	30	19				
	Karlstad ...	994·7	25	ENE	6	o	1014·1	+7	14	−5	—	0	—	b	*	6	25	10				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	996·4	43	NW	9	o	1014·4	+8	41	−2	NNW	8	—	c	8	4	45	37				
	C. Gris Nez ...	1012·8	42	NW	7	b	1022·4	+3	38	−8	NNW	6	*	b	6	1	46	37				
	La Hève ...							*					*									
	Brest (St. Mathieu)	1026·1	46	NNW	5	o	1029·6	0	46	−4	NNE	1	*	c	1	—	52	41				
	Rochefort (Ile d'Aix)	1023·4	48	NNW	5	o	1027·5	+2	43	−5	NNE	3	*	bc	*	—	52	41				
	Biarritz ...	1021·1	50	W	4	r	1027·1	0	50	0	NE	2	*	o	3	3	52	48				
	Paris ...	1015·4	39	NW	3	b	1023·1	+4	36	−12	NW	2	—	b	*	Trace	48	36				
	Belfort ...	1012·7	36	W	7	r	1018·1	*	32	−4	W	4	*	g	*	4	38	32				
	Lyons ...	1017·7	43	WNW	2	o	1022·6	*	35	+1	NW	3	*	c	*	4	44	34				
	Nice ...	1007·3	41	—	0	b	1006·3	+4	42	+1	E	2	*	b	3	—	50	39				
	Perpignan ...	1019·3	55	NW	3	bc	1022·0	+7	46	−2	NNW	4	NW	c	*	—	57	45				
	Sanguinaire ...	*	52	NW	6	o	*	*	50	−1	NW	6	*	r	7	—	55	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031·0	52	NNE	4	b	1029·9	0	50	+7	NNE	3	—	f	1	1	54	48				
	Madrid (8 a.m.)	1026·4	46	W	1	b	1028·6	+1	32	0	—	0	—	b	*	—	48	30				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1025·0	53	NW	5	b	1023·3	*	51	+8	NW	6	*	b	1	—	61	42				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1009·0	−2	54	0	W	6	—	r	3	3	57	52				
	Azores (Horta, 8 a.m.)	1021·0	*	SSE	5	o	1013·5	−4	61	+2	SE	6	*	o	6	—	64	59				
	Madeira (Funchal)	1025·9	55	N	2	r	1024·7	0	57	0	W	2	—	o	2	—	63	55				

GALES.

Duration and Extreme Force in British Islands.

Lerwick.
13th 7 a.m. – 2.30 p.m. N 8.

Deerness
13th 7 a.m. – 1 p.m. NNW 8

Malin Head
13th 7 a.m. – 3 p.m. NW 8

Holyhead
13th 10 a.m. NW 9
Ex. Gust. NW 26 mps

13th 1 p.m. NW 9
13th 6 p.m. NNW 8

Southport.
13th 7 a.m. – 8 p.m. NW 9
Ex. Gusts. NW 28 mps

Wick
13th 7 a.m. – 10 a.m. NW 8

Nairn
13th 7 a.m. – Noon NNW 8
Ex. NNW 9 @ 7 a.m.

Aberdeen
13th 7 a.m. – 1 p.m. NW 8
Ex. NW 9 @ 10 a.m.
Ex. Gust. NW 34 mps @ 10 a.m.

Spurn Head
13th 10 p.m. – 14th 4 a.m. N 8
Ex. N 9 @ 1 p.m. & 6 p.m.

Yarmouth
13th 6 p.m. NNW 8
13th 9 p.m. NNW 9
14th 1 a.m. – 2 a.m. NNW 8

London (Kew Obsy.)
13th Noon NW 8
13th 2 p.m. NW 8

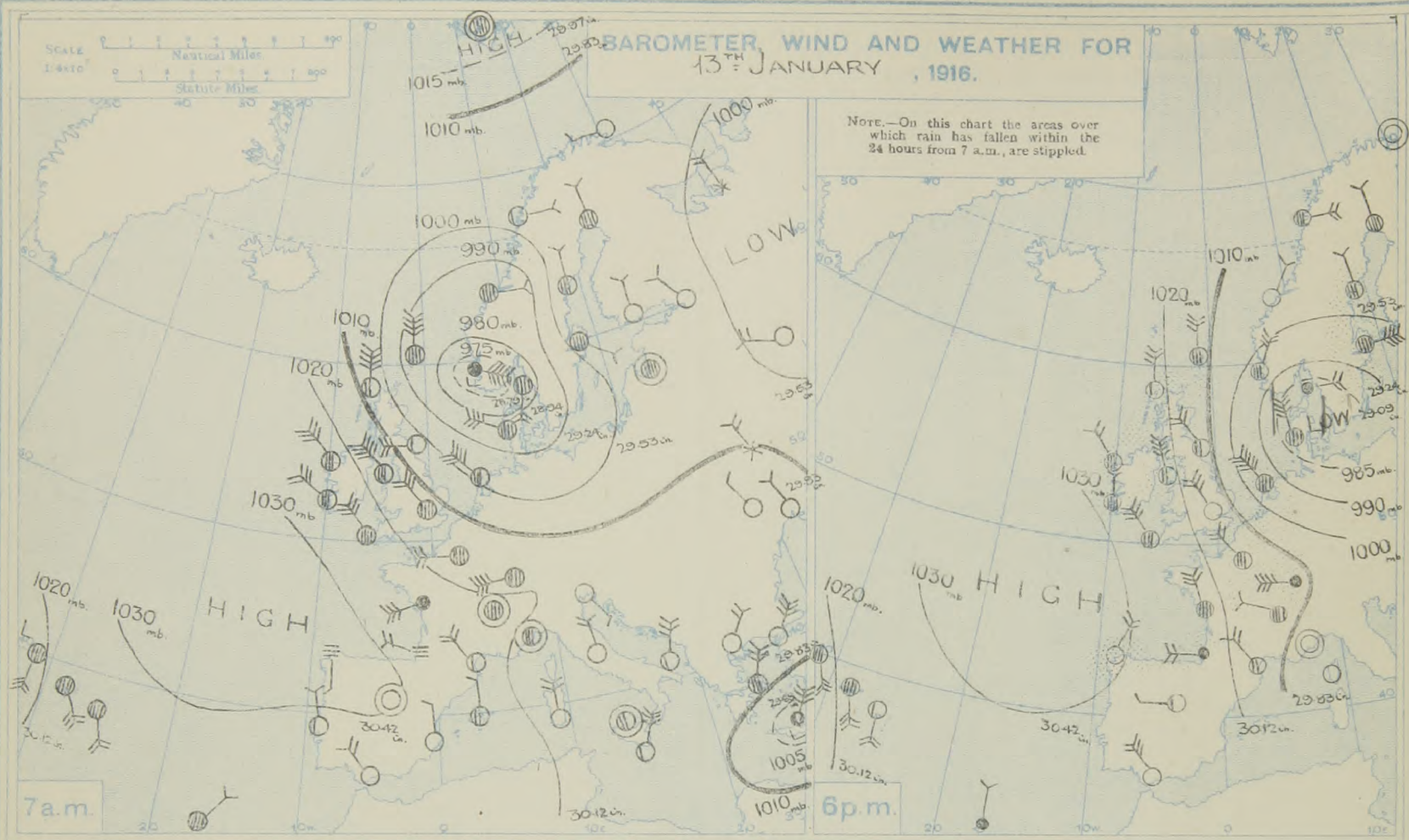
South Farnborough

Pilot Balloon Ascent at about 7 a.m.

2000 metres NW by N 35 miles per hour

500 " NNW 24 " " "

* Information for these columns not usually received.



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.

0 a, b, 1	Increasing South-Westerly wind, becoming squally and strong to gale at times; unsettled some rain and mist; milder.
2 a, b, 3, 4 a, b, 5	Light North-Westerly breeze, backing Westerly or South-Westerly and freshening somewhat; fine at first changeable later, some rain and mist; 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	Same as Nos. 0 and 1.
10 a, b	Freshening South-Westerly breeze; changeable, some rain and mist; milder.
Western Channel and Bay 11	Moderate to light breezes, mainly Northerly to Westerly; sea moderate; fair generally, some mist or fog; milder.

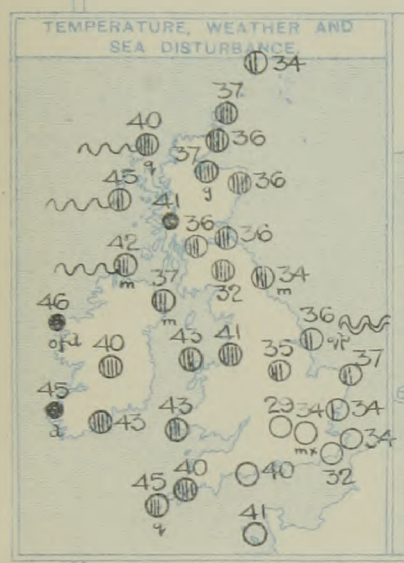
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 14TH JANUARY, 1916.

GENERAL INFERENCE.

The new depression off the Hebrides will occasion more variable weather generally.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough. High.

Normal Temperature of the Sea.

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

Scale of Tints for JANUARY.

Barometer falling generally

Barometer

LOW

HIGH

1005 mb.

1010 mb.

1015 mb.

1020 mb.

1025 mb.

1030 mb.

29.68 in.

29.83 in.

29.97 in.

30.12 in.

30.27 in.

30.42 in.

Issue No. 19776 — DAILY WEATHER REPORT. — 14th January, 1916.

REPORTS FOR YESTERDAY.

13TH January.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1008·2	-6	N	2	b	1007·3	?	-9	-9	N	2	-	0'	*	?	1	-13
Hernösand	1012·2	+1	N	2	b	1005·6	-1	+5	-7	N	2	-	c	*	-	14	-4
Stockholm	1011·9	10	NW	2	b	1001·0	-7	18	0	SE	2	-	0	*	-	18	+9
Wisby	1012·8	25	N	6	0	999·7	-9	25	+2	SSE	2	.	c	2	-	27	21
Karlstad	1012·4	14	-	0	0	990·0	-21	19	-8	NE	8	-	S	*	1	27	9
Petrograd	999·3	10	NNW	3	0	1003·7	+2	-2	-16	NW	2	-	b	*	-	14	-2

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	5	42	38	0	bc	0·5
	Banff	3	42	36	orq.bc	p.rq.bc	0·2
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	40	37	b	b.bc.c	6.3
	Skegness	1	44	38	b.bc	bc.og	5.3
Eng. N.W.	Morecambe	-	43	41	b	b	6.1
	Blackpool	1	50	41	c.pq.bc	bc.bq	5.0
	Southport	1	43	40	oc.q.bc	bc.bc.b	3.6
Midlands	Buxton						
	Leamington Spa	0·2	45	39	c.bc	c.bc.b	3.8
	Malvern	-	45	39	bc	bc	5.4
	Ross-on-Wye	1	50	39	bc	b	3.5
Wales	Llandudno	1	50	42	q.c	c.b	0.3
	Rhyl	1	45	40	cqp	bcq	0.8
	Colwyn Bay	2	45	42	bc	bc	0.7
	Aberystwyth	1	46	42	r.o.c	c.c.o	1.0
	Tenby	-	51	46	b	bc	3.5

	STATIONS.	Rainfall. mm §.	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft						
	Felixstowe	1	44	35	bc	bc	6.1
	Walton-on-Naze	1	43	39	b	bc	6.2
	Southend-on-Sea	-	44	40	b.bc	b	4.9
England, S.E.	Margate	1	45	39	b	b.c	3.0
	Ramsgate	1	44	40	bc	c.bc	4.9
	Hastings	1	49	40	or.bc.b	op.bc.b	3.0
	Eastbourne	1	47	42	bcq	bcq	2.8
	Seaford	1	49	39	bc	bc	3.1
	Brighton	1	47	44	bc.c.oc	c.bc.b	4.2
	Worthing	1	48	41	b.bc	bc.b	3.3
	Littlehampton	0·3	49	43	o.bc	bc	3.8
	Bognor	0·4	47	41	b.bc	bc	4.1
	Southsea	-	47	44			5.5
	Bournemouth	1	46	42	bd	cd	2.8
England, S.W.	Weymouth	-	47	43	bc	bc.b	1.7
	Torquay	1	48	44	o.c.bc	bc	1.2
	Paignton	0·3	48	43	bc	bc	3.1
	Penzance	2	48	46	c.bc	c	1.7
	Newquay	*	47	45	c	o	0.7
	Ilfracombe	0·3	51	44	o	c.bc.c	0.6
	Weston-super-Mare	0·3	47	42	bc.b	b.bc	3.0

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature (24 hours ended 9 a.m. To-Day) In Screen Max. °F.	In Screen Min. °F.	Min. on Grass. °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.)	57	86	1·7	45	33	28	-	bc	bc.bz	bz.bzx
City (Bunhill Row)	*	*	2.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	59	89	2.2	47	32	27	-	bc.b	b	bmx
Camden Sq. (Brit. Rainfall)	56	87	2·7	46	32	27	-	bc.b	b	*
Hampstead (Reservoir)	*	82	3·5	44	29	20	-	bc	bcx	bc
Richmond Park	*	*	3.1							
Kew. (See front page.)	*	*	?							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	59	88	2·8							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
239 Joules	8.1 Milliwatts.	23 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm §.	Temperature In Screen Max. °F.	Temperature In Screen Min. °F.	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.	1	47	35	32	oru	ou.b.c	b.c	4·5
Manchester ,,	1	51	39	*	o.c.or	oc.bc	bc.bc.o	2.2
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	50	41	36	o.c	bcq.c	b.bz.by	*

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

14th & 15th January, 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.0 / 7.59	12.2 / 12.2	4.4 / 4.5
Greenwich	8.2 / 8.1	12.9 / 12.9	4.16 / 4.17
Wick	8.54 / 8.53	12.21 / 12.21	3.48 / 3.50
Valencia	8.45 / 8.44	12.50 / 12.50	4.55 / 4.56

NOTES ON YESTERDAY'S WEATHER.

Temperature showed a slight decrease in all districts. Showers occurred in most places. Sunshine ranged to more than six hours. A Northerly to North-Westerly gale was felt on various coasts.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 15.

Saturday, 15th January.

	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 ...	996·9	46	SW	6	orq													orsqp	orq		*
	Deerness (Orkney)	1000·7	46	WSW	4	r	991·2	*	36	-1	W	8	–	qhp	6	5	48	36	o	or	r.ohqp	0·0
	Stornoway ...	1004·3	48	SSW	6	odqp	1001·1	+4	41	+1	WNW	8	–	cqp	6	11	50	39	oqp	c.odqp	o.cqp	0·0
	Castlebay (Barra Isd.)	1010·3	49	W	4	op	1006·6	+2	45	0	WSW	5	–	r	5	2	50	43	or	r.op	op	0·0
	Glasgow ...	1013·7	46	WSW	4	omd	1005·4	-2	47	+11	WSW	6	–	od	*	2	48	35	omdp	oqdp	md.oqp	0·1
	Eskdalemuir ...	1015·8	42	SSW	4	od	1006·9	-3	45	+13	WSW	7	–	o	*	5	46	29	c.op	od	odp.or	0·0
	Malin Head ...	1015·2	47	W	5	cmqd	1010·0	0	48	+6	WSW	8	–	omq	7	1	48	42	cmqp	cmqd	omq	0·4
	Blacksod Point	1019·9	48	W	5	cm	1016·6	0	48	+2	W	6	W	bc	5	2	48	44	ofd	cmp	cm.bc	*
	Valencia ...	1026·2	48	WSW	4	opd	1023·2	-1	47	+2	WSW	8	–	c	3	1	50	45	d.o.cm	o.c.o	b.o.c.o.c	0·0
	Roche's Point	1026·1	49	W	2	o	1024·1	*	47	+4	W	2	–	o	2	Trace	50	43	o	o.c	o.c.o	*
	Birr Castle ...	1023·0	47	W	2	r	1020·0	*	47	+7	W	1	–	o	*	1	49	40	om	c.od.r	o	0·1
	Donaghadee ...	1016·9	47	W	4	cgm	1010·5	-5	47	+10	W	5	W	cgq	4	Trace	48	36	cgmp	cgm	cgm.cq	*
	Liverpool (Bidston)	1020·5	46	SW	4	o	1015·3	-2	46	+5	WSW	6	W	cq	5	–	48	40	o.bc	q	oq	0·9
	Holyhead ...	1021·7	47	WSW	5	og	1017·3	-2	48	+5	WSW	5	–	c	4	1	49	42	c.om	od.om	o.c.om	0·0
	Pembroke (St. Ann's)	1025·1	48	W	4	o	1021·9	-1	48	+5	W	4	W	cq	4	0·3	49	43	c.o	omd	cq	0·0
	Scilly (St. Mary's)	1027·5	48	WSW	4	omd	1025·2	-1	47	+2	W	4	W	cmqp	4	1	49	44	c.o	om	fd.cqp	0·2
	Falmouth ...	1027·7	45	WSW	2	c	1025·1	-1	45	+5	W	3	–	o	*	1	48	40	o.c.o	o.c.o.c	cp.bc.c	0·0
	Jersey (St. Aubin)	1028·4	44	WNW	2	c	1025·6	*	48	+7	WSW	4	–	ogc	3	Trace	48	39	oc	c	c.od.og	1·8
	Portland Bill ...	1027·6	46	W	3	bc	1022·8	-2	48	+8	W	4	W	ou	4	–	48	40	bc.c	c.bc	c.o	*
	Dungeness ...	1025·5	38	W	2	bc	1019·9	-3	46	+14	WSW	5	–	ou	4	–	46	31	bcz	bc	b.bc.o	*
	Dover	1025·9	39	W	3	c	1020·1	-2	46	+12	WSW	4	W	o	3	–	46	34	b	b.bc.c	o.bc.b.o	6·1
	Wick	1002·6	46	SW	4	o	995·1	0	41	+5	NW	6	–	r	6	3	50	35	ogm	ogm	or.cqp	*
	Nairn	1006·1	46	W	2	ou	999·8	*	44	+7	W	4	–	cg	3	2	51	36	cc	cq	ogqp	0·0
	Aberdeen ...	1007·8	44	SSW	3	cm	997·1	0	44	+8	WNW	4	–	oq	2	0·4	53	35	om	o.cm	c.oqp	0·0
	Leith	1012·9	47	W	3	c	1002·8	-3	49	+13	W	6	W	bc	5	–	50	35	c.ogc	cgq.o	cq.c.bc	*
	Tynemouth ...	1015·8	42	SW	2	om	1005·9	-3	49	+15	SSW	5	SW	cmq	4	–	49	33	cm	ogm	cmq	*
	Spurn Head ...	1021·1	36	W	4	o	1011·7	-3	46	+10	WSW	5	–	cq	4	1	46	35	bcq	c.om	om	2·1
	Yarmouth ...	1022·6	37	NW	2	c	1014·8	-3	45	+8	W	3	–	bc	3	0·3	45	35	bcm	cm	cm.bc	4·1
	Clacton-on-Sea	1024·4	39	SW	2	o	1017·6	-1	39	+5	WSW	3	W	c	3	–	44	34	b.bc	bc.c.o	o.c	4·9
	Nottingham ...	1022·1	40	SW	2	o	1014·7	*	47	+12	W	5	W	c	*	–	47	30	cm	cm.o	o	0·3
	Benson (Oxon.) ...	1024·9	38	SSW	2	b	1019·8	-1	45	+16	WSW	4	–	o	*	–	45	28	bc	b	c.o	*
	Sth Farnborough	1025·3	39	W	2	o	1019·8	-2	45	+16	W	5	–	o	*	–	46	29	b.bc.b	bc.b.bc.o	o.bc.b.o	5·2
	London (Kew Obsy.)	1025·4	40	SW	2	om	1019·7	-2	45	+11	WSW	4	–	o	*	–	46	33	bmbcmx	b.bc.c.om	omcbm.o	4·8
NORTHERN EUROPE.	Spitsbergen ...	1001·2	-2	W	4	s	994·6	-1	-9		NNW	2	*	o	*	*	-2	-17				
	Vardö	1005·5	9	SW	1	b	1000·8	-3	3	+13	WSW	5	–	b	3	*	16	?				
	Bodö	1003·0	19	E	2	b	983·1	-11	19	-8	E	7	–	b	3	–	27	14				
	Christiansund	997·9	30	NW	4	s	969·0	-11	34	+4	NW	6	–	s	4	6	34	28				
	Skudesnaes ..	1006·9	30	ESE	9	s	981·9	-9	39	+16	W	8	–	c	6	28	37	23				
	Færder (X'iania Fjord)	1014·9	27	SW	4	o	979·9	?-12	39	+18	SSW	9	–	r	5	2	39	19				
	The Scaw (Skagen)	1017·6	26	SE	1	b	990·3	-3	37	+10	SW	5	–	r	6	2	37	19				
	Blaavands Huk	1019·0	23	ESE	1	b	1001·6	-9	41	+9	W	6	–	r	4	1	41	32				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1021·7	34	S	1	c	1012·3	-5	45	+4	WSW	6	–	o	3	–	45	34				
	C. Gris Nez ...	1025·1	42	NW	4	c	1020·7	-3	47	+9	W	5	*	o	5	–	43	38				
	La Hève	1026·3	39	N	3	o	1022·4	*	41		WNW	4	*	o	4	–	43	39				
	Brest (St. Mathieu)	1030·0	47	WNW	1	o	1028·2	0	48	+2	W	4	*	o	2	–	52	46				
	Rochefort (Ile d'Aix)	1030·1	43	NNW	3	b	1027·8	0	41	-2	ENE	3	*	bc	*	–	50	37				
	Biarritz	1029·2	47	NE	2	b	1027·7	-2	36	-14	E	2	*	b	2	–	50	36				
	Paris	1027·8	36	NW	1	b	1025·7	-2	36	0	SSW	2	–	o	*	–	45	32				
	Belfort							*					*		*							
	Lyons	1029·2	34	NNW	3	bc	1029·0	*	32	-3	NW	3	*	b	*	–	40	31				
	Nice	1013·7	43	–	0	b	1020·8	+4	38	-4	–	0	*	b	3	–	54	37				
	Perpignan ...	1024·6	46	NW	5	b	1025·2	0	41	-5	NW	4	–	b	*	–	52	39				
	Sanguinaire ...	*	52	N	5	bc	*	*	51	+1	E	3	*	b	6	–	57	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1027·5	54	NE	6	b	1024·4	0	43	-7	S	1	–	m	1	–	54	41				
	Madrid (8 a.m.)	1023·9	52	NNW	1	b	1028·4	+1	32	0	–	0	–	b	*	–	54	30				
	Lisbon (9 a.m.)																					
	Gibraltar	1023·3	53	W	5	b	1023·3	*	51	0	NW	4	*	b	1	–	61	50				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1009·9	+3	52	-2	WNW	6	–	b	5	11	57	48				
	Azores (Horta, 8 a.m.)	1004·7	*	SE	9	o							*									
	Madeira (Funchal)	1023·9	63	SE	2	c	1023·8	0	57	0	S	3	–	r	3	4	63	57				

GALES.

Duration and Extreme Force in British Islands

Deerness
15th 4 a.m - 7 a.m W 8
Stornoway
15th 7 a.m WNW 8
Glasgow
During early morning of 15th WSW 8
Eskdalemuir
15th 4 a.m SW 8
Malin Head
15th 7 a.m WSW 8
Aberdeen
15th 6.30 a.m Gust NNW 25 m.p.s.

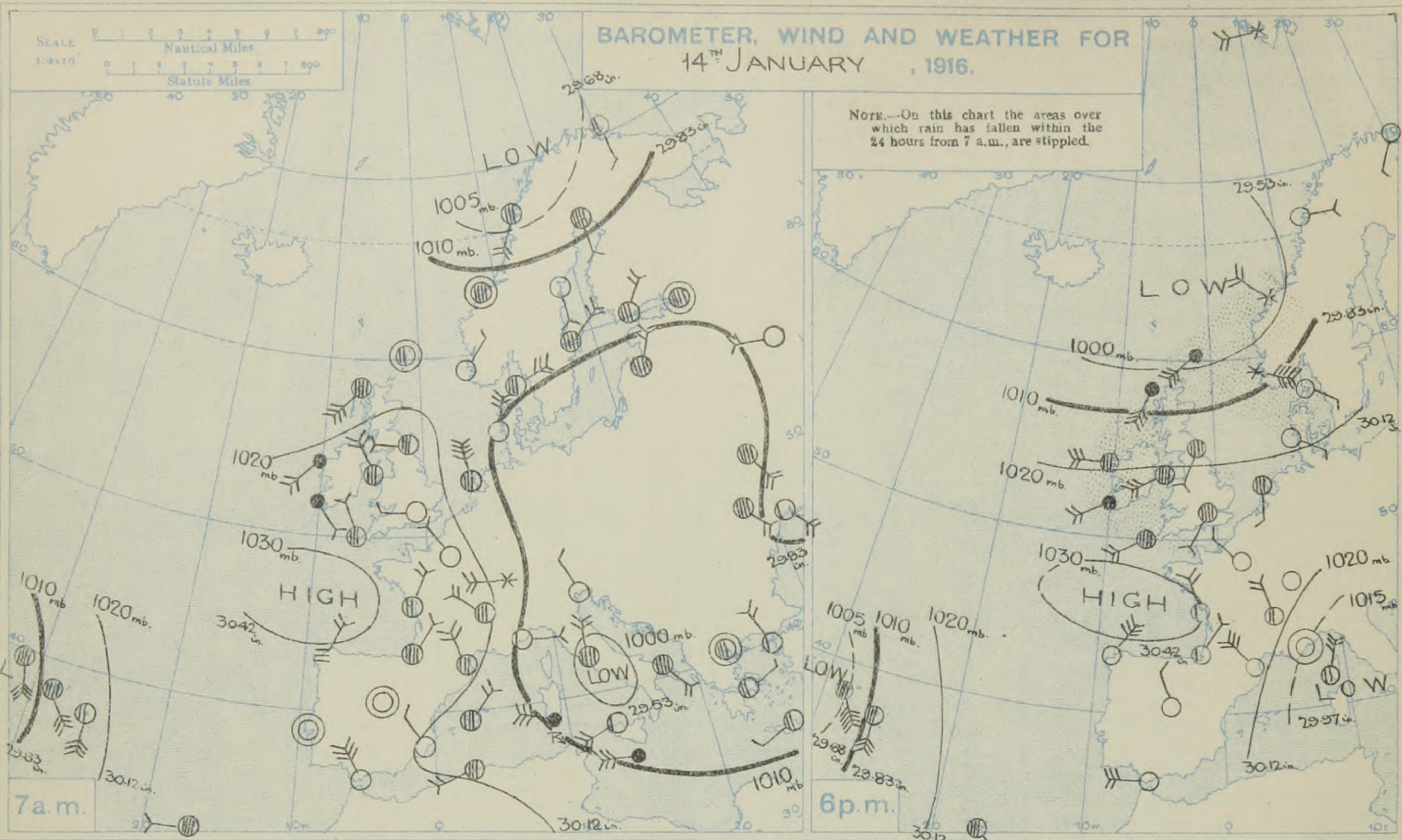
South Farnborough

Pilot Balloon at 8 a.m

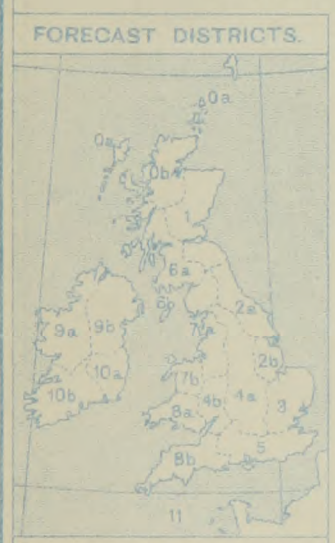
Cloud level 850 metres W by N 50 miles per hour

500 " W by N 33 " " "

* 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.



STORM WARNINGS.

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

Signals hoisted yesterday — South Cone; North Cone

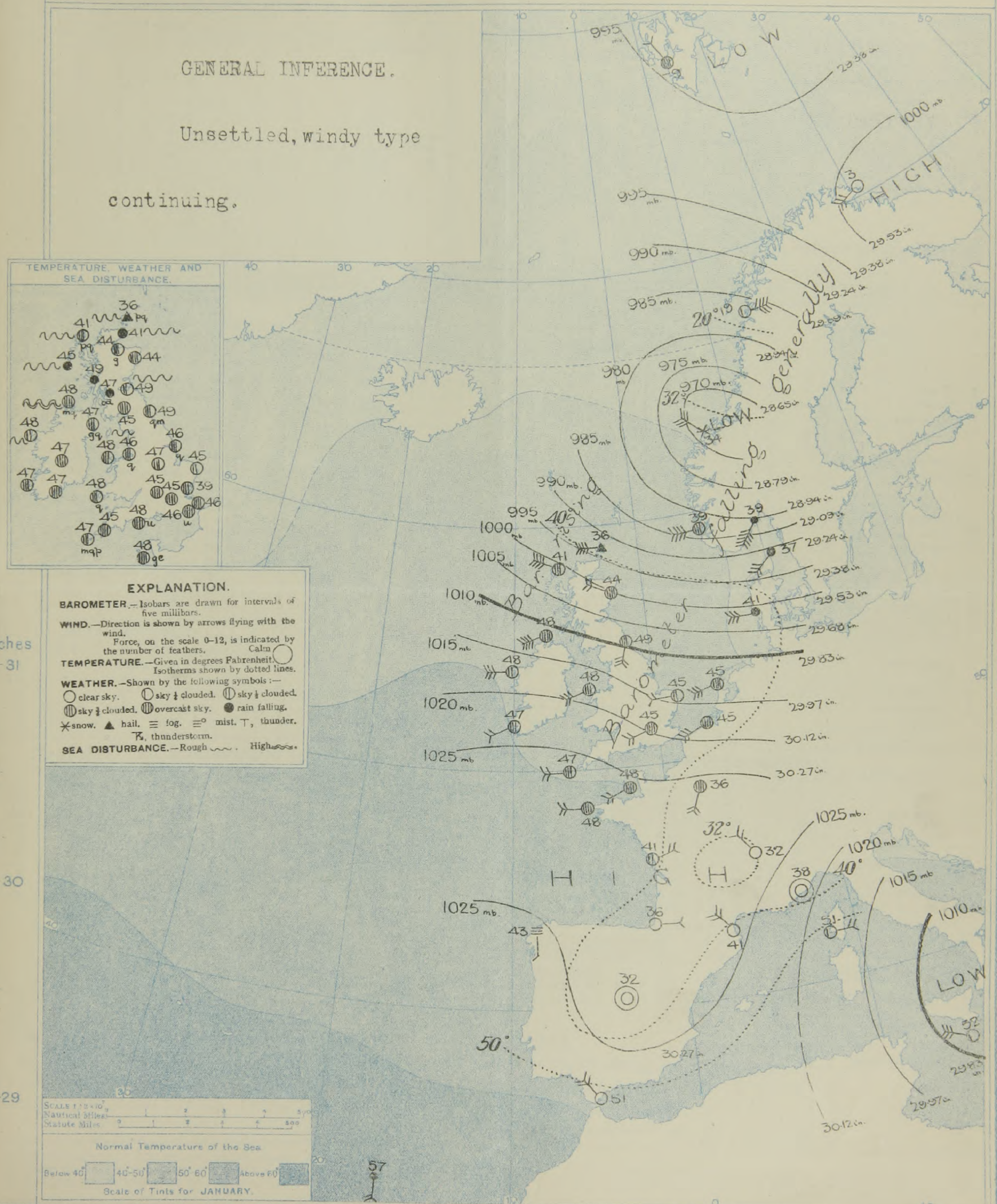
Signals hoisted this morning — South Cone; North Cone

0 a, b, 1, 2 a, b, 3	Squally Westerly to Northerly wind, strong to gale at times; dull some rain, sleet locally; mild to colder.
4 a, b, 5	Squally South-Westerly to Westerly or North-Westerly wind, fresh or strong at times; cloudy to dull, some rain; mild to cooler.
6 a, b, 7 a, b	Same as Nos. 0 to 3.
8 a, b	Same as Nos. 4 and 5.
9 a, b	Same as Nos. 0 to 3.
10 a, b	Same as Nos 4 and 5.
Western Channel and Bay 11	Westerly breeze, fresh at times; sea moderate to rather rough; cloudy to dull, some rain and mist; moderate temperature.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 15TH JANUARY, 1916.



Issue No. 19,777

DAILY WEATHER REPORT.

Saturday, 15th January, 1916.

REPORTS FOR YESTERDAY.

14th January 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1008·3	-8	NW	2	o	1013·5	+2	-9	-6	-	o	-	o	*	-	-2	-15
Lisbon	1027·1	52	NW	2	b	1025·5	o	46	-3	-	o	-	b	?	-	58	45
Rome	1005·0	48	S	4	o	997·0	-1	43		N	4	-	o	*	7	?	?

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	-	47	36	r.o	o	0·0
	Banff	0·3	46	?	o.bc	bc	0·0
	St. Andrews	-	45	33	*	*	0·0
Eng. N.E.	Harrogate	-	41	30	b.bc	c.o	1·9
	Skegness	-	42	31	o.bc.c	bc.o	3·0
Eng. N.W.	Morecambe	1	44	32	c.o	od	0·0
	Blackpool	0·2	45	36	c.o	od.o	0·0
	Southport	-	44	37	oc.o	c.op.o	0·1
Midlands.	Buxton	-	48	29	bc	bc	1·1
	Leamington Spa	-	43	30	bc	bc	1·8
	Malvern						
	Ross-on-Wye	-	44	32	bc.obc	bc	1·6
Wales.	Llandudno	-	47	41	c	c	0·1
	Rhyl	-	47	39	c	c	0·7
	Colwyn Bay	-	48	40	b	bc	1·6
	Aberystwyth	1	46	42	o.c.o	oc.o	0·2
	Tenby	1	47	35	bc	bc c.or	0·5

	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	cps.bc	bc.c	2·7
	Felixstowe	—	42	33	bc.b	b	5·3
	Walton-on-Naze	-	40	32	b.by	b.be.o	5·7
	Southend-on-Sea	-	44	34	b	b.bcx	5·8
England, S.E.	Margate	-	47	38	b	b.bc	3·2
	Ramsgate	-	40	34	bc	bc	5·7
	Hastings	-	43	34	b	b.bc	0·3
	Eastbourne	-	43	35	o	bc.o	6·0
	Seaford						
	Brighton	-	43	33	bcz.bc	bc	5·3
	Worthing	-	44	33	b.bc	bc.c	4·7
	Littlehampton	-	45	35	b	bc	5·5
	Bognor	-	45	32	b	b.bc	5·8
	Southsea	-	45	35	b	b	4·5
	Bournemouth	-	46	32	bc.b	b	4·0
England, S.W.	Weymouth	-	46	36	bc	bc	1·8
	Torquay	0·1	46	35	bc	b.bc	0·3
	Paignton	-	46	32	bc	bcm	0·1
	Penzance	-	48	41	c	om	0·0
	Newquay	*	47	43	o.c	c	0·1
	Ilfracombe	0·2	51	43	c.bc	bccd	0·6
	Weston-super-Mare	-	46	35	bc	bcbbc	0·5

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature (24 hours ended 9 a.m. To-day.) In Screen Max. °F.	In Screen Min. °F.	Min. on Grass. °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.)	69	71	0·3	47	34	29	-	bc	bc	bc.o
City (Bunhill Row)	*	*	1·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	78	78	2·2	47	34	29	-	bc	bc	bc.o
Camden Sq. (Brit. Rainfall)	72	75	3·6	46	33	32	-	b.bc	bc.c	*
Hampstead (Reservoir)	*	79	5·0	44	35	28	-	bc	bc	c
Richmond Park	*	*	4·5							
Kew. (See front page.)	*	*	4·8							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	78	3·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
251 Joules	8·5 Milliwatts.	18 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.								*
Darwen to 9 p.m.	2	44	31	25	bc	bc	c ow	0·1
Manchester ,,	0·4	47	31	*	be.cmx	mx.c.o	od.o	0·0
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	43	33	24	b.bm	bm.c	c.o	*

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

15th & 16th January 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.59 / 7.58	12.2 / 12.3	4.5 / 4.7
Greenwich	8.1 / 8.1	12.9 / 12.10	4.17 / 4.19
Wick	8.53 / 8.52	12.21 / 12.22	3.50 / 3.52
Valencia	8.44 / 8.43	12.50 / 12.51	4.56 / 4.58

NOTES ON YESTERDAY'S WEATHER.

After a cold morning temperature recovered, and in places reached or passed 50°. Slight rain fell locally. South-east England had good sunshine records, some stations exceeding six hours. Several northern districts experienced a Westerly gale.

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. 16 {Sunday, 16th January

	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 ...	1003·7	39	NNW	6	og	1009·5	-1	35	-4	-	0	-	om	0	2	41	33	omqcp	og	bc om	*
	Deerness (Orkney)	1008·4	39	NNW	6	c	1008·4	*	39	+3	S	4	.	o	4	1	48	37	pnq	d.cp.c	cv.d	0·0
	Stornoway ...	1012·6	40	NNW	5	c	1009·5	-2	45	+4	W	5	-	bcq	4	1	46	38	chp	cp	obcpq	1·0
	Castlebay (Barra Isd.)	1014·0	42	NW	1	o	1012·6	-1	46	+1	SW	4	.	bc	4	2	48	40	r.o	op	odpbc	0·0
	Glasgow ...	1014·6	42	W	2	o	1014·9	-2	44	-3	WSW	3	-	o	*	2	48	39	dpq.o	o c.o	odpop	0·2
	Eskdalemuir ...	1015·0	41	WNW	3	od	1016·4	-1	42	-3	SW	3	-	o	*	1	48	38	od	od	od.o	0·0
	Malin Head ...	1014·9	48	WSW	6	om	1015·2	-1	45	-3	SW	4	-	og	5	1	48	43	cmqd	om	cg	0·0
	Blacksod Point	1017·8	46	W	5	om	1014·0	-4	44	-4	SSW	6	SW	omd	3	1	49	42	cmp	cmp	bc.omd	*
	Valencia ...	1021·3	46	SSW	1	o	1015·2	-4	48	+1	SSE	4	-	o	*	1	49	44	cp	o	op.o	0·0
	Roche's Point	1023·4	47	W	2	o	1019·3	*	48	+1	S	3	-	r	4	1	49	45	o	o	op	*
	Birr Castle ...	1020·4	46	W	1	o	1017·7	*	43	-4	SE	2	-	o	*	-	49	43	c	o	o	0·0
	Donaghadee ...	1014·9	49	WNW	5	cqm	1016·8	0	44	-3	SW	3	-	og	3	-	51	43	cqm	cqm	cqmog	*
	Liverpool (Bidston)	1017·6	48	WSW	5	o	1019·6	-1	45	-1	WSW	2	-	o	3	-	50	44	o.b	bv	o	2·7
	Holyhead ...	1019·1	49	WSW	5	og	1019·4	-1	46	-2	WSW	4	-	og	4	..	51	45	c.o.oq	c.o.bc.o	o.c.o	2·1
	Pembroke (St. Ann's)	1023·6	47	W	3	cv	1021·3	0	46	-2	SW	3	-	opd	2	0·64	49	44	cq.pv	cq.pv	cv.cpd	0·0
	Scilly (St. Mary's)	1024·4	46	W	1	bcv	1020·3	-3	49	+2	SSE	4	S	c	4	1	?50	44	c.bc	bcv	cp.c	4·3
	Falmouth ...	1024·6	45	NNW	2	od	1021·8	-3	47	+2	SSW	1	.	c	*	1	49	40	cd.c	c.o.c	ob.d.bc	0·7
	Jersey (St. Aubin)	1025·1	48	WSW	4	og	1024·8	*	46	-2	SSW	3	-	o	2	1	49	45	odm	odm.og	og.o	0·2
	Portland Bill ...	1022·1	48	W	4	c	1023·5	-1	46	-2	SSW	2	-	od	3	-	49	45	c	c	c.o	*
	Dungeness ...	1020·6	47	SW	3	o	1022·7	+1	?44	-2	W	3	W	o	3	-	48	42	o c o	o.c.o	bc	*
	Dover	1021·2	45	SW	4	b	1024·5	+1	43	-3	W	3	W	o	2	-	47	41	o.c	c.b	b bcco	0·0
	Wick	1010·0	40	NW	3	c	1009·6	-4	40	-1	SW	3	-	o	2	0·3	42	33	cqp	bc.c	cmo	*
	Nairn	1012·3	39	W	2	c	1011·1	*	42	-2	-	0	-	cg	2	0·2	44	37	bcq	bc	ogd	2·4
	Aberdeen ...	1012·3	38	WSW	3	b	1012·0	-2	37	-7	WSW	1	-	c	2	-	47	37	bo bq	bq.b	bc.c	3·4
	Leith	1013·8	45	NW	1	c	1015·1	-1	45	-4	W	1	W	c	2	-	51	41	c.bq.c	b	c.o.c	*
	Tynemouth ...	1012·5	47	W	3	cqm	1016·5	0	46	-3	W	2	W	cm	3	-	49	44	cmq	cmqg	cm	*
	Spurn Head ...	1014·6	48	W	6	cq	1019·3	0	47	+1	NW	3	-	om	5	2	49	43	cq	cq	c.oq	0·0
	Yarmouth ...	1015·2	47	NW	5	bc	1021·7	+1	42	-3	WNW	3	-	bcm	3	-	51	42	bc	bc	bc.o	4·6
	Clacton-on-Sea	1018·2	45	W	3	bc	1022·1	0	41	+2	W	2	W	o	1	-	48	39	c.o	o.cbc	bcso	0·8
	Nottingham ...	1017·9	50	W	2	c	1020·3	*	44	-3	WSW	2	W	c	*	-	51	40	c.b	bc c	c	2·6
	Benson (Oxon.) ...	1020·1	44	WSW	3	b	1020·3	0	42	-3	SW	2	-	o	*	-	48	34	o	bc	b.o	*
	Sth Farnborough	1020·6	44	W	2	bc	1023·1	0	39	-6	WSW	1	-	o	*	Trace	48	34	o	o.c.bc.c	cbod	0·9
	London (Kew Obsy.)	1020·8	46	WSW	3	cm	1023·4	0	36	-9	SW	1	-	omc	*	-	49	35	o	ombomm	cm.com	0·0
NORTHERN EUROPE.	Spitsbergen ...	993·5	-29	-	0	b	994·3	+1	-31	-22	-	0	*	bc	*	*	-9	-36				
	Vardö	998·1	9	SW	3	b	999·5	+2	7	+4	SW	5	-	b	3	*	7	1				
	Bodö	988·0	12	E	4	b	997·6	+3	12	-7	E	3	-	b	2	-	19	10				
	Christiansund	985·9	34	NW	5	s	1002·3	+3	32	-2	NW	5	-	s	4	6	34	30				
	Skudesnaes ..	992·3	37	WNW	9	c	1001·3	+3	36	-3	NNW	2	-	c	5	2	39	7				
	Færder (X'iania Fjord)	977·6	37	WNW	4	b	1001·2	+9	36	-3	WNW	6	-	b	4	Trace	39	34				
	The Scaw (Skagen)	979·1	39	WNW	9	b	1003·1	+9	37	0	NW	7	-	b	7	1	43	36				
	Blaavands Huk	997·1	41	NW	8	c	1012·3	+5	39	-2	NW	6	-	bc	5	2	43	36				
	Haparanda ...	993·5	1	SSE	6	o	994·1	+3	1	-11	N	4	-	s	*	1	12	1				
	Hernösand ...	969·7	12	ENE	6	s	990·7	+8	7	-9	N	8	-	o	*	12	23	-2				
	Stockholm ...	968·2	32	W	6	b	989·1	+11	10	-11	NW	6	-	o	*	8	32	10				
	Wisby	974·3	34	SW	6	b	989·5	+11	25	+6	NNW	9	-	o	8	18	34	18				
	Karlstad	970·1	34	WSW	4	bc	995·4	+11	28	+1	WNW	6	-	b	*	2	37	21				
	Petrograd (5 a.m. G.M.T.)	998·6	0	SE	4	s	978·3	-6	21	+29	SE	4	-	s	*	1	21	-8				
FRANCE, &c.	The Helder ...	1011·9	46	W	7	o	1019·7	+2	43	-2	W	2	-	o	2	-	48	43				
	C. Gris Nez ...	1020·4	46	W	5	b	1023·1	0	45	-2	W	5	*	o	4	-	48	45				
	La Hève	1025·6	45	WNW	4	o	1023·0	*	43	+2	SW	4	*	o	2	?	45	32				
	Brest (St. Mathieu)	1025·9	48	WSW	2	o	1024·0	-2	46	0	SSE	4	*	c	3	-	54	46				
	Rochefort (Ile d'Aix)	1026·6	39	-	0	b	1025·5	0	34	-7	SSE	3	*	b	*	-	48	34				
	Biarritz	1025·9	43	E	2	b	1022·6	-1	34	-2	ESE	2	*	b	1	-	48	32				
	Paris	1025·1	46	SW	2	o	1026·1	0	43	+7	SW	1	-	o	*	-	48	36				
	Belfort	1028·4	34	W	4	o	1029·6	*	34		W	3	*	o	*	-	39	33				
	Lyons	1029·5	34	NW	1	b	1029·5	*	30	-2	-	0	*	b	*	-	42	28				
	Nice	1022·3	41	E	2	b	1015·7	+1	39	-1	-	0	*	b	2	-	54	37				
	Perpignan ...	1024·3	48	NW	2	b	1025·2	0	?	?	-	0	-	m	*	-	55	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·1	57	NNW	1	b	1023·1	+1	48	+5	SW	3	-	o	1	-	57	48				
	Madrid (8 a.m.)	1024·6	48	S	1	b	?1028·6	+3	?	?	-	0	-	b	*	-	50	32				
	Lisbon (9 a.m.)	1022·9	45	N	1	f	1025·3	0	43	-2	N	2	-	b	?	-	48	41				
	Gibraltar							*					*									
	Rome	1024·4	41	N	3	b	1022·8	0	36	-5	N	3	-	b	*	-	?	?				
	Malta (8 a.m.) ...	*	*	*	*	*	1019·9	+3	50	-2	NNW	7	-	b	6	-	55	46				
	Azores (Horta, 8 a.m.)	1001·8	*	W	8	b	1004·3	0	59	+3	SW	6	*	bc	5	6	61	56				
	Madeira (Funchal)	1023·0	61	S	3	c	1024·2	0	59	+2	SW	3	-	o	3	-	63	55				

GALES.

Duration and Extreme Force in British Islands

Lerwick. 15th Jan.
N.W. 8. 8.30 a.m. to 5 p.m.

Deerness: 15th Jan.
W.N.W. 8 at 1 p.m.

Eskdalemuir: 15th Jan
W.S.W. 8. 7 a.m. to 10 a.m.

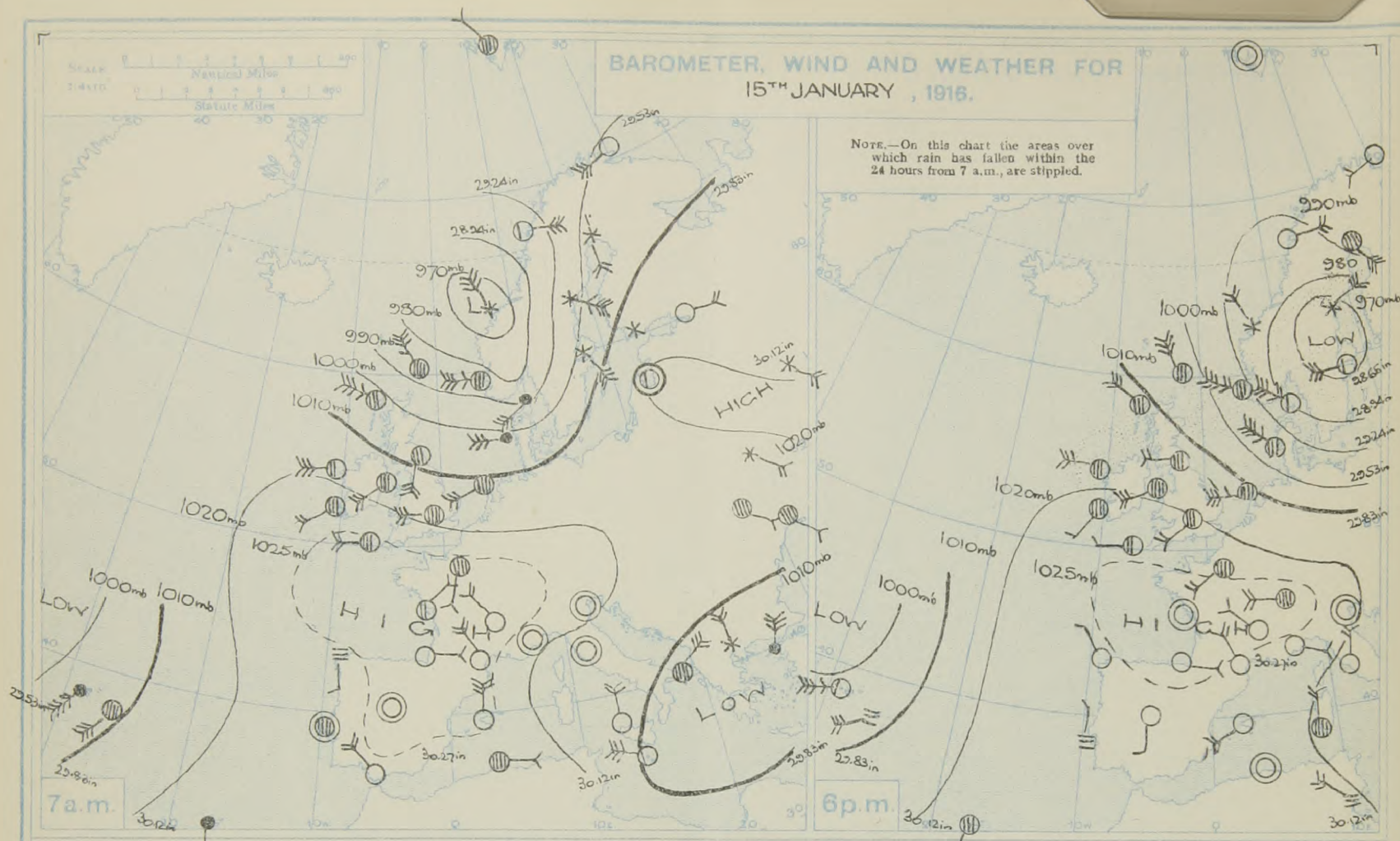
Malin Head: 15th Jan.
W.S.W. 8 at 1 p.m.

Aberdeen: 15th Jan.
W.N.W. 8. 10 a.m. to noon
Gust 28 m/s. @ 11 a.m.

Spurn Head: 15th Jan.
W. 8 at 1 p.m.

Nottingham: 15th Jan.
W. 8 at 11 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 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.

0 a, b; 1; 2 a, b; 3; 4 a, b — Light Westerly breezes, backing Southerly and freshening; fair to dull, some rain and mist; mild.

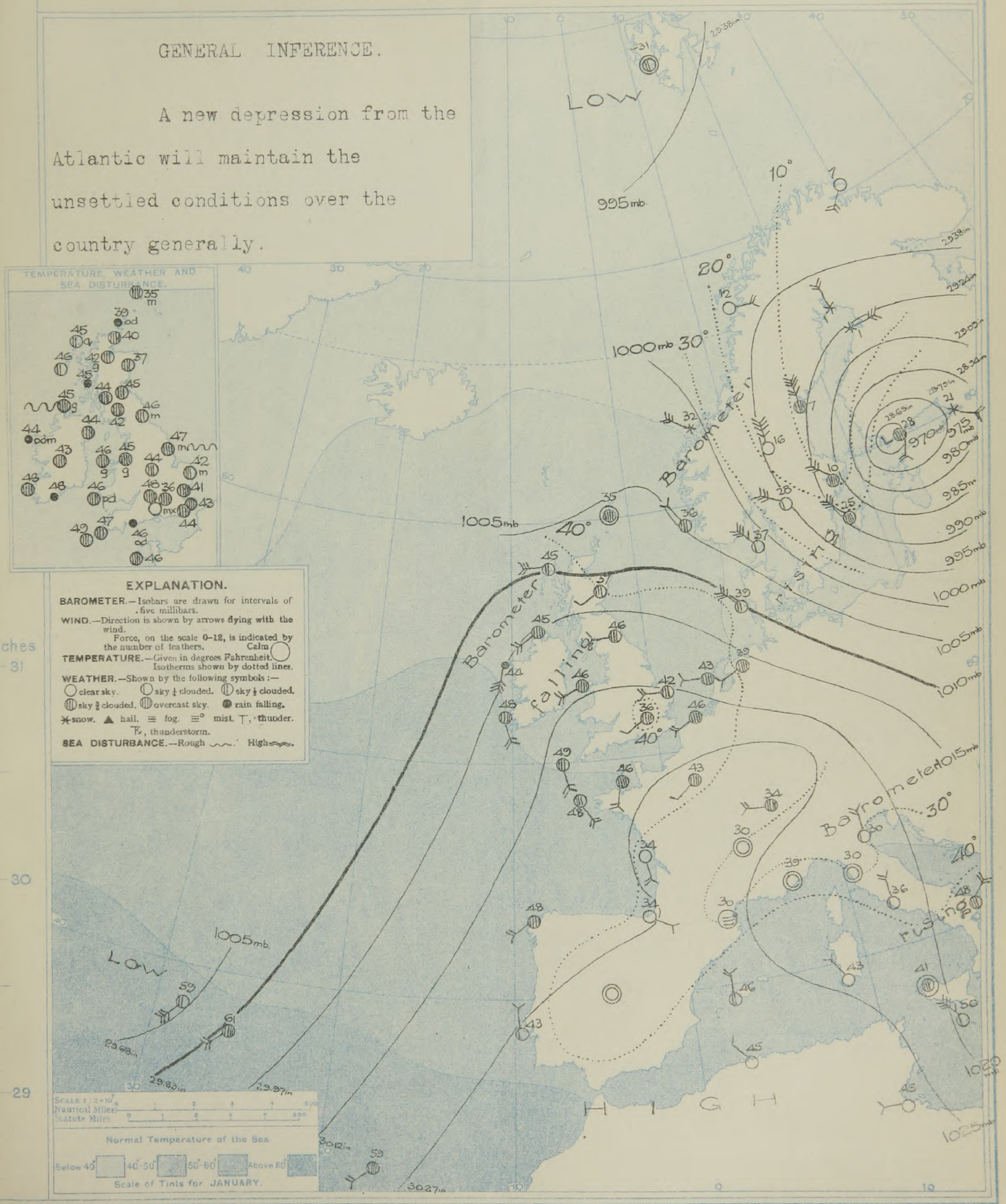
5; 6 a, b; 7 a, b; 8 a, b; 9 a, b; 10 a, b — South-Westerly and Southerly wind, freshening, squally, strong to gale in places; unsettled, some rain and mist; mild.

Western Channel and Bay 11 — Southerly and South-Westerly winds, freshening, squally, strong to a gale at times; sea rough; unsettled, some rain, mist or fog; mild.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 16TH JANUARY, 1916.



Issue No. 19,778. DAILY WEATHER REPORT. Sunday, 16th January, 1916.

REPORTS FOR YESTERDAY.

15th January

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1007.4	-6	S	2	0	1000.3	-3	12	+18	E	4	-	S	*	1	12	-13
Hernösand	1010.6	+1	-	0	b	991.1	-16	16	+6	ESE	8	-	S	*	10	18	-2
Stockholm	1016.8	9	-	0	bc	1000.0	-13	21	+3	SSE	6	-	S	*	-	21	+5
Wisby	1014.9	16	ENE	2	b	1006.7	-9	19	-2	S	2	-	[illegible]	3	-	23	12
Karlstad	1017.2	0	-	0	b	986.6	-21	27	+13	SW	8	-	S	*	3	27	-13
Petrograd	1019.7	-8	E	2	0	1017.5	-4	-3	+1	E	3	-	b	*	1	-6	-11
Lisbon	1024.6	52	SW	2	b	1024.0	0	45	0	-	0	-	0	?	-	54	45
Rome	1005.2	45	N	3	b	1016.2	+6	41	-	N	3	-	b	*	Trace	?	?
Horta	.	.	.	.	.	998.1	-5	56	-5	SSW	9	*	r	8	9	63	54

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	49	40	o.bc	o	0.3
	Banff	2	42	40	bcq	bcq	3.9
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	47	39	o.c	c.bc	1.5
	Skegness	-	52	36	o.bc	bc.c	3.1
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	49	44	o.c.bc	c.o	0.2
Midlands.	Buxton	1	46	37	bc	bc	0.3
	Leamington Spa	-	50	31	c.bc	bc	0.2
	Malvern						
	Ross-on-Wye	-	51	43	bcv	c	0.8
Wales.	Rhyl						
	Colwyn Bay						
	Aberystwyth	2	48	44	r.o.c	c.o	0.0
	Tenby	1	49	38	bc.c.o	dp	0.5

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	49	33	bc	bc	1.2
	Walton-on-Naze	-	49	37	o.c.c.b	b	0.0
	Southend-on-Sea	-	48	35	o.c	bc.b	0.1
England, S.E.	Margate	-	48	36	c	c	0.0
	Ramsgate	-	47	35	z	z	0.0
	Hastings	0.3	48	38	o/p.c	o	0.0
	Eastbourne	-	49	41	o	o.bc.o	0.0
	Seaford	-	47	42	o	o	0.0
	Brighton	-	48	36	o.c	c	0.0
	Worthing	-	48	37	c	c.bc	0.0
	Littlehampton	-	47	35	o	o	0.0
	Bognor						
	Southsea						
	Bournemouth	-	48	37	o	o	0.0
England, S.W.	Weymouth	-	48	42	o.c	c	0.0
	Torquay						
	Paignton	-	49	37	o	o	0.0
	Penzance	0.3	51	46	c	cu.bc	2.6
	Newquay	?	48	44	c.bc.b	c.bc.b	1.7
	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.)	70	90	0.1	49	37	31	-	o	o.bc	b.o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	79	94	0.2	50	40	38	-	o.bc	bc	bcu.m
Camden Sq. (Brit. Rainfall)	69	97	0.2	50	35	29	-	o.c	p.o	*
Hampstead (Reservoir)	*	94	0.0	47	34	25	Trace	c.o	bcu	oe
Richmond Park	*	*								
Kew. (See front page.)	*	*	0.0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	96	0.1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
178 Joules	6.0 Milliwatts.	15 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.	Trace	50	45	43	c.oqd	cq	bc	*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "	-	48	41	36	o	o.c	o.c	0.0
Oxford to 8 p.m.	*	50	42	37	c.o	o.c.o	c.bc	*
Teignmouth to 9 "								
Plymouth "	1	50	45	*	c.b.dp	c.bv	c.bv	1.4
S. Kensington (Museum Grounds to 6 p.m.)	-	50	40	28	o	o	o.c.bc	*

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

16th and 17th January, 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.58 / 7.57	12.3 / 12.3	4.7 / 4.9
Greenwich	8.1 / 8.0	12.10 / 12.10	4.19 / 4.21
Wick	8.52 / 8.50	12.22 / 12.22	3.52 / 3.54
Valencia	8.43 / 8.42	12.31 / 12.31	4.58 / 5.0

NOTES ON YESTERDAY'S WEATHER.

Temperature was again above the average in all districts. Rainfall was slight. Scilly and Yarmouth had about 4½ hours of sunshine, but generally there was little or none.

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

Monday, 17th January.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 17

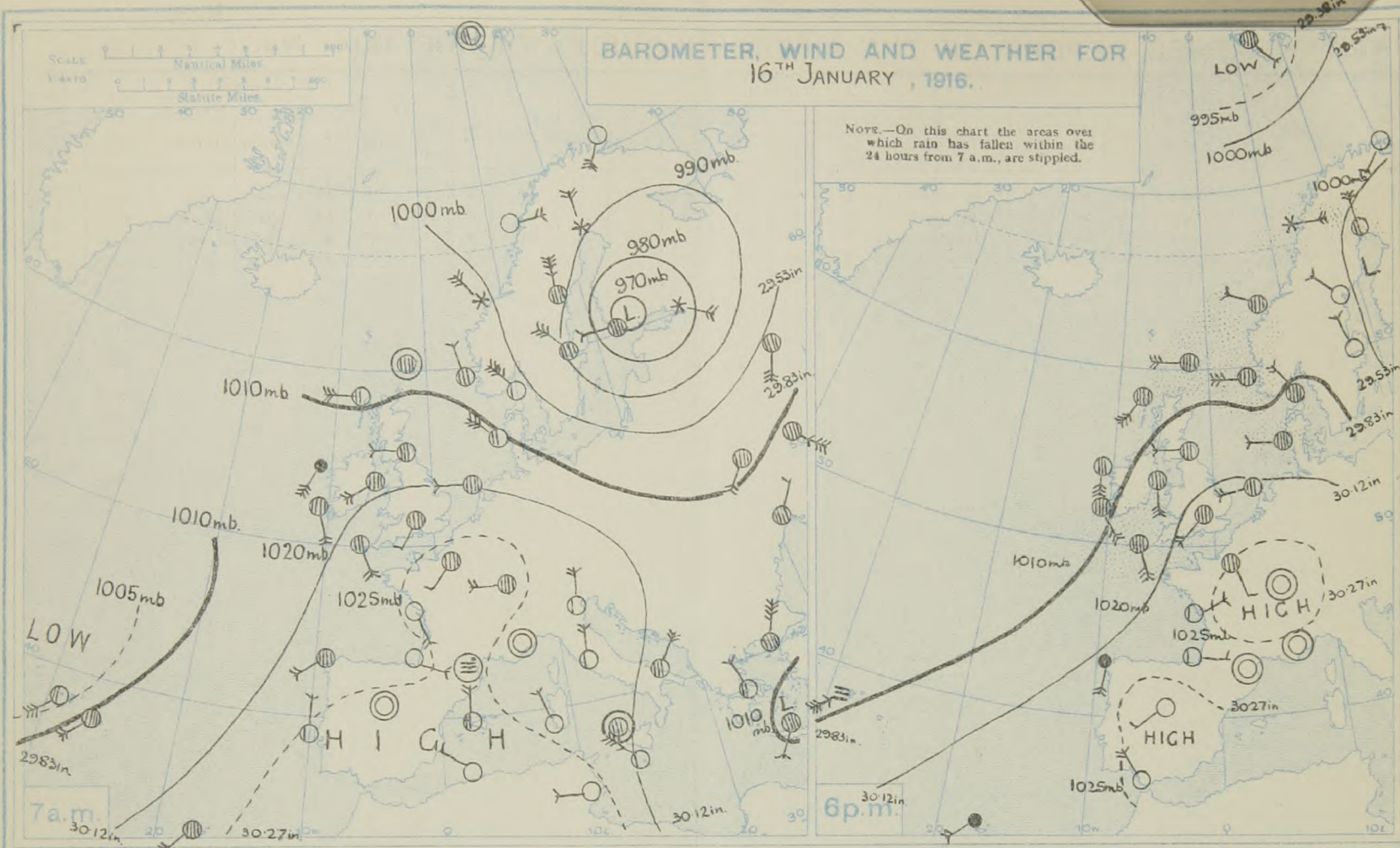
	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	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 ...	1002.2	46	W	5	cq	1005.1	0	45	+10	SW	2	-	0	2	5	46	34	omr	opq	bc.c	*
	Deerness (Orkney)	1006.4	44	W	4	bc	1004.7	*	42	+3	S	1	-	c	3	4	46	40	opd	pd.c.bc	bc.c	0.5
	Stornoway ...	1007.4	45	SW	6	opq	1001.8	-3	46	+1	*	5	-	oq	4	1	47	44	o.cp	c.opq	odpq	1.1
	Castlebay (Barra Isd.)	1008.8	45	SSE	4	o	1001.3	-3	47	+1	SE	5	-	r	5	2	47	44	bc.dp	dp	dp.or	0.2
	Glasgow ...	1013.0	42	WSW	1	odp	1006.6	-2	46	+2	SSW	1	-	omq	*	0.2	47	41	o	cq	omdp.o	0.0
	Eskdalemuir ...	1014.3	40	SSW	4	od	1008.5	-1	42	0	SSW	3	-	o	*	2	44	39	o	od	odm	0.0
	Malin Head ...	1009.4	44	S	4	cq	1006.5	-5	48	+3	S	5	-	cq	4	-	48	37	cx	cq	oq	0.0
	Blacksod Point	1007.1	48	S	6	cq	997.1	-5	48	+4	S	6	S	omc	5	-	49	44	cq	cq	cq.om	*
	Valencia ...	1008.0	50	SE	5	op	1000.1	-4	51	+3	SSE	4	-	or	*	6	51	48	o.c	o	or	0.0
	Roche's Point	1013.7	49	S	4	o	1005.0	*	50	+2	SSW	4	-	o	5	2	50	48	omp	om	od.o	*
	Birr Castle ...	1011.3	50	S	2	o	1002.4	*	49	+6	S	3	-	o	*	-	50	43	o	o	o	0.0
	Donaghadee ...	1012.1	46	S	3	cgm	1004.5	-3	47	+3	S	4	-	ompd	3	Trace	47	43	cg	cgm	ompd	*
	Liverpool (Bidston)	1016.4	47	SE	1	od	1009.1	-3	43	-2	ESE	3	-	od	3	0.3	49	43	og	o	op	0.1
	Holyhead ...	1014.7	47	S	5	ocm	1006.2	-4	46	0	S	6	-	ogm	5	1	49	44	opdf.o	opd.oc	ov.cgm	0.0
	Pembroke (St. Ann's)	1016.5	49	SSW	5	cq	1007.9	-2	49	+3	S	4	-	opdm	4	2	49	45	cq	cq	cqrd	0.0
	Scilly (St. Mary's)	1015.6	50	SSE	5	cm	1008.8	-1	51	+2	SSW	4	-	omd	6	2	52	48	cm	cm	omr.d	0.8
	Falmouth ...	1017.5	49	S	4	c	1009.8	-2	51	+4	SSW	4	-	r	*	3	51	46	c.bc.o	o.c	c.op.od	1.7
	Jersey (St. Aubin)	1022.4	45	SSE	3	b	1015.8	*	47	+1	S	3	-	o	3	2	47	43	o.c	c.b	b.or.o	4.0
	Portland Bill ...	1021.5	47	SSW	3	o	1013.2	-5	49	+3	SSW	4	SW	od	4	2	49	46	o	o	or	*
	Dungeness ...	1022.1	45	W	3	od	1015.8	-3	43	?-1	S	3	-	o	3	0.3	48	42	o.bc	bc.od	o.c.bc.o	*
	Dover ...	1023.0	44	SW	3	o	1016.3	-2	42	-1	SW	5	SW	c	4	0.2	46	42	o.c	c.od.c	d.o.c	0.0
	Wick ...	1008.0	45	WSW	2	o	1005.4	-2	42	+2	WSW	1	-	o	2	0.2	46	38	opd	og	bc.omc	*
	Nairn ...	1008.8	43	W	2	c	1004.3	*	39	-3	-	0	-	bc	1	0.2	47	38	bc	bc.c	o.bc.d	1.0
	Aberdeen ...	1010.1	40	SW	3	b	1006.2	-2	44	+7	SSW	3	-	o	0	-	47	33	bc	bc.b	b.bc.o	2.8
	Leith ...	1012.3	44	W	2	o	1007.5	-2	47	+2	SW	1	SW	c	2	-	49	43	oc.og	o	op.o.c	*
	Tynemouth ...	1014.4	45	W	2	cm	1009.4	-3	46	-1	SW	2	W	bcm	3	-	48	42	cm	cmg	bcm	*
	Spurn Head ...	1018.3	45	W	2	c	1012.9	-2	43	-4	SW	4	-	c	4	-	46	42	om	o	o	0.0
	Yarmouth ...	1021.5	44	W	2	c	1015.1	-4	42	0	SSW	2	-	o	2	-	47	41	cmbf	cm	cma.o	1.2
	Clacton-on-Sea	1021.2	44	S	3	o	1015.7	-4	43	+2	S	3	-	o	2	-	46	41	og	og	og	0.0
	Nottingham ...	1018.2	45	SW	3	o	1012.3	*	41	-3	S	2	S	c	*	-	46	40	c.om	om	*	0.0
	Benson (Oxon.) ...	1020.7	45	S	3	o	1013.7	-2	42	0	SSE	4	-	r	*	-	45	41	o	o	o	*
	Sth Farnborough	1021.2	45	SSW	3	o	1014.3	-3	42	+8	SSW	3	-	o2	*	0.1	46	39	omd	od.o	o	0.0
	London (Kew Obsy.)	1021.3	46	SW	3	o	1014.9	-4	44	+8	SSW	2	-	o	*	Trace	47	35	omxwom	omd.o	o	0.0
NORTHERN EUROPE.	Spitsbergen ...	990.7	-15	SE	2	o	987.9	+1	-9	+22	-	0	*	S	*	*	-9	-31				
	Vardö ...	1000.2	7	WSW	2	b	997.7	-3	+9	+2	WSW	5	-	c	2	*	9	0				
	Bodö ...	1004.0	16	E	4	S	1003.6	+3	28	+16	NW	4	-	c	2	*	28	10				
	Christiansund	1005.2	32	WNW	2	o	1007.7	+2	28	-4	SE	2	-	b	4	5	36	27				
	Skudesnaes ..	1003.1	41	W	5	o	1004.3	+1	41	+6	WNW	4	-	o	5	4	41	34				
	Færder (Christiania Fjord)	1007.8	34	SW	2	o	1008.2	+7	30	-6	ENE	4	-	o	2	*	36	28				
	The Scaw (Skagen)	1010.1	37	NW	3	o	1004.7	+1	41	+4	WNW	5	-	o	5	5	41	34				
	Blaavands Huk	1013.9	41	W	2	o	1011.1	0	41	+2	WSW	3	-	o	3	Trace	43	37				
	Haparanda ...	999.5	-4	N	4	bc	1004.4	+2	-19	-20	NW	2	-	b	*	1	3	-19				
	Hernösand ...	1003.8	10	NW	2	b	1009.7	+5	-2	-9	N	2	-	b	*	-	12	-4				
	Stockholm ...	1003.0	14	NNW	2	b	1009.1	+3	+10	0	W	2	-	b	*	-	16	10				
	Wisby ...	1004.8	27	NNW	9	b	1007.5	+2	25	0	NE	2	NW	b	3	-	28	19				
	Karlstad ...	1007.8	27	-	0	o	1010.0	+3	19	-9	NE	2	-	b	*	Trace	30	16				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1020.0	43	WSW	3	c	1016.6	-2	43	0	SSW	4	-	o	3	-	45	43				
	C. Gris Nez ...	1022.3	45	SSW	5	o	1016.7	-4	38	-7	SSE	3	*	o	*	1	46	37				
	La Hève ...	1022.0	41	ESE	2	m	1017.7	*	39	-4	SSE	3	*	c	2	-	39	37				
	Brest (St. Mathieu)	1020.0	48	S	5	o	1014.1	-1	50	+2	SW	5	*	f	4	1	50	48				
	Rochefort (Ile d'Aix)	1022.3	43	ENE	2	b	1020.7	0	42	+8	SSE	4	*	m	*	-	46	34				
	Biarritz ...	1021.5	51	E	1	b	1021.1	-1	52	+18	ESE	1	*	bc	0	-	55	34				
	Paris ...	1024.7	43	SSE	1	o	1020.0	-2	32	-11	S	2	-	b	*	-	46	30				
	Belfort ...	1027.0	36	-	0	b	1026.0	*	26	-8	-	0	*	m	*	-	42	26				
	Lyons ...	1027.1	34	-	0	b	1026.6	*	26	-4	-	0	*	b	*	-	41	26				
	Nice ...	1024.3	42	-	0	b	1027.4	+1	40	+1	E	3	*	c	3	-	52	37				
	Perpignan ...	1024.6	39	-	0	b	1025.9	+1	41	?+7	SW	1	-	o	*	-	48	34				
	Sanguinaire ...	*	58	S	3	o	*	*	47	-	E	4	*	o	3	-	55	41				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021.0	55	SSW	4	r	1020.0	0	57	+9	SSW	4	-	o	3	?	57	48				
	Madrid (8 a.m.)	1025.9	50	SW	1	b	1031.7	+3	37	?	-	0	-	f	*	-	50	36				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1027.7	55	NW	3	b	1028.8	*	50	-	NW	4	*	b	2	-	62	48				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1027.5	+2	50	0	W	2	-	b	2	-	54	48				
	Azores (Horta, 8 a.m.)	1008.2	*	SW	8	f							*									
	Madeira (Funchal)	1024.7	59	SW	3	r	1027.4	0	59	0	SW	2	SW	r	2	4	68	59				

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, 2 {a, b}, 3, 4 {a, b}, 5 — Southerly and South-Westerly breezes, moderate or fresh at times; dull, some showers and mist; mild.

6 {a, b}, 7 {a, b}, 8 {a, b}, 9 {a, b}, 10 {a, b} — Southerly and South-Westerly winds, fresh to strong, a gale at times locally; dull, some rain and mist; mild.

Western Channel and Bay 11 — South-Westerly wind, strong at times; sea rough; changeable, 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.

FURTHER OUTLOOK.

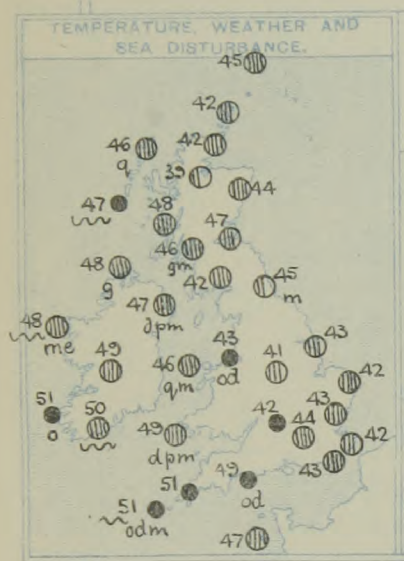
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 17TH JANUARY, 1916.

GENERAL INFERENCE.

A depression beyond our western coasts will maintain the unsettled type of weather.



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 JANUARY.

LOW

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

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

Barometer rising

HIGH

LOW

Barometer falling generally

HIGH

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

Station Date & Hour.	Benson. 10th Jan. 12·18 p.m.		Eskdalemuir 11th 1 p.m.		South Farnboro' 11th 7·57 a.m.		South Farnboro' 13th 7·57 a.m.		Falmouth. 14th Noon.		Benson. 14th 12·8 p.m.		South Farnborough 15th 8 a.m.							
	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Heights in Kilometres. 4																				
3																				
2									(1·8) +9	−9										
1	+18	−4	+1	−9			+12	−14	+7	−2	+4	−5	(8·5) +24	−5						
·5	+15	−2	0	−7	+16	−4	+18	−18	+5	0	+5	−3	+15	−3						
0	+4	+2	+1	−3	+10	+9	+6	−3	+3	+1	+3	0	+3	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	4	45	39	d	0	0·0
	Banff	-	49	37	bc.b	bc	0·9
	St. Andrews				*	*	
Eng., N.E.	Harrogate	0·4	46	42	0.c	c	0·0
	Skegness	-	46	43	0	0	0·0
Eng., N.W.	Morecambe						
	Blackpool	-	48	45	og	0	0·0
	Southport	-	48	44	od.c	c.0	0·5
Midlands.	Buxton	0·3	44	40	bc	bc	0·0
	Leamington Spa	-	45	40	0.c	0.c	0·0
	Malvern	-	?	?	c	c	0·0
	Ross-on-Wye	-	47	41	om	omg	0·0
Wales.	Llandudno	-	50	44	c.bcc	bc.c	1·8
	Rhyl	-	49	43	b.bc	bc.c	1·0
	Colwyn Bay	-	49	43	bc	bc	2·1
	Aberystwyth	-	50	42	0.c.0	c.0	0·0
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	46	41	c	og	0·0
	Walton-on-Naze	-	45	41	0.omo.c	0.c	0·0
	Southend-on-Sea	-	45	39	0	0	0·0
England, S.E.	Margate	-	46	42	c	0	0·0
	Ramsgate	-	44	38	og	og	0·0
	Hastings	1	47	39	0	od.o	0·0
	Eastbourne	0·3	49	42	0	c	0·0
	Seaford						
	Brighton	0·1	47	39	om o.c	c.oc.o	0·0
	Worthing	-	47	36	0.bc	bc.o	0·1
	Littlehampton	0·3	47	35	0	0	0·0
	Bognor	0·3	47	43	0	0	0·0
	Southsea	-	48	44	0	0	0·0
	Bournemouth	0·3	48	42	0	0	0·0
England, S.W.	Weymouth	-	49	44	c	c.0	0·0
	Torquay						
	Paignton						
	Penzance						
	Newquay	*	49	42	bc.c	0	1·2
	Ilfracombe	-	52	44	cd.c	cd c	0·2
	Weston-super-Mare	1	49	41	0.c	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.)	85	90	0·0	46	40	30	0·3	o	op	o
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	90		47	40	38	-	om	ome	om
Camden Sq. (Brit. Rainfall)	-	88	0·0	46	39	38	trace	-	-	*
Hampstead (Reservoir)	*	92	0·0	44	40	34	-	o	om	og od
Richmond Park	*	*								
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	83	92	0·0	115 Joules		3·8 Milliwatts.		11 Milliwatts.		

Vertical Component of Solar Radiation per square centimetre during Yesterday.

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.	-	52	43	41	c	c.b	c.o	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	-	44	42	37	*	0	0	0·0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	48	38	26	bc.o	om.	og om	*

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

17th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7. 27 / 7. 56	12. 3 / 12. 3	4. 9 / 4. 11
Greenwich	8. 0 / 7. 59	12. 10 / 12. 10	4. 21 / 4. 23
Wick	8. 50 / 8. 49	12. 22 / 12. 22	3. 54 / 3. 57
Valencia	8. 42 / 8. 41	12. 51 / 12. 51	5. 0 / 5. 2

NOTES ON YESTERDAY'S WEATHER.

Mildness was general, temperature touching 52° at Ilfracombe and Scilly. Light rain fell in many places. Jersey had four hours of sunshine, but as a rule there was little or none.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g gloom; h. hail; 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. 18.

Tuesday, 18th January.

	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 ...	1004·8	43	S	3	b	998·5	-1	44	-1	S	5	-	or	4	9	46	40	bc	bc	omr	*
	Deerness (Orkney)	1000·7	43	SE	4	c	995·9	*	44	+2	SSW	2	-	c	3	5	45	42	c.bc.b	b.bc.c	cp	3·0
	Stornoway ...	995·9	49	S	6	oq	994·4	0	44	-2	SSW	5	-	cq	4	5	49	44	o	oq	o.cpq	0·1
	Castlebay (Barra Isd.)	994·0	49	SE	6	ofp	995·6	0	48	+1	S	6	S	bc	6	3	49	46	r.ofm	omp	ofm.bc	0·0
	Glasgow ...	1001·7	47	S	1	o	1002·3	+4	44	-2	SW	3	-	c	*	3	49	43	omd.p	om.cm	op.c	0·0
	Eskdalemuir ...	1004·0	43	SSE	3	odm	1004·5	+1	43	+1	SSW	5	-	o	*	15	48	40	odm	odm	orm.or	0·0
	Malin Head ...	993·9	51	S	5	cqp	998·8	0	44	-4	SW	6	SW	bcq	5	-	51	43	cqg	cqp	bcq	0·2
	Blacksod Point	994·2	48	SW	6	cm	997·5	0	46	-2	SSW	7	SW	bcqp	6	5	52	42	om	omr	bcqp	*
	Valencia ...	999·7	50	SSW	3	c	1003·9	0	46	-5	S	3	-	bc	4	9	54	44	omr	r.o.bc	c.bcp.bc	0·6
	Roche's Point	1002·0	51	W	3	b	1006·8	*	47	-3	W	2	-	b	4	3	51	46	rf	dmo	o.bc.b	*
	Birr Castle ...	999·2	53	SW	2	o	1003·9	*	40	-9	S	1	-	c	*	1	53	39	od.r	od.r.o	c	0·0
	Donaghadee ...	999·9	50	SSW	4	omr	1002·5	+3	40	-7	SW	3	-	bz	2	1	50	40	ogm	ogmp.d	ogm.bc	*
	Liverpool (Bidston)	1005·6	49	? SW	3	o	1007·6	+3	45	+2	SSW	2	S	bc	2	5	50	43	o.c	or	or.bc	0·5
	Holyhead ...	1002·7	50	SSW	6	opdm	1007·8	+2	47	+1	SW	4	-	b	3	5	50	46	opd.f	opdm	od.b.bc	0·0
	Pembroke (St. Ann's)	1004·2	50	S	5	orqm	?1008·6	+1	48	-1	WSW	4	-	b	4	9	50	48	oqdm	oqrm	bcq	0·0
	Scilly (St. Mary's)	1005·1	52	S	5	omd	1010·1	+2	49	-2	SSW	3	S	cmp	4	5	53	47	omd	omd	omd.cm	0·0
	Falmouth ...	1007·1	51	SSW	7	odq	1011·3	+1	45	-6	WSW	1	-	b	*	5	52	44	od	od.r.od	rq.d.bc	0·0
	Jersey (St. Aubin)	1014·2	51	SSW	3	oe	1012·4	*	51	+4	SW	3	-	od	3	6	52	46	oe	cd.p.oe	oe.r.d	0·0
	Portland Bill ...	1011·0	50	SSW	4	o	1010·2	+2	50	+1	WSW	3	-	bc	5	2	51	48	od	od	or.c.d	*
	Dungeness ...	1013·2	47	SW	4	od	1010·8	0	49	+6	SSW	5	-	op	5	2	48	43	od	od	op.pm	*
	Dover	1014·1	47	S	4	r	1011·8	0	48	+6	SW	4	-	m	4	7	48	41	oe.d	od.r	omde	0·0
	Wick	1001·0	44	SSE	3	bc	996·8	0	44	+2	SSE	3	-	bc	3	2	45	40	om.bc	bcm	or.bc	*
	Nairn	999·9	46	SSW	1	cm	997·6	*	44	+5	-	0	-	bc	1	0·4	49	35	bc.cm	bcm	cgpq	1·0
	Aberdeen ...	1003·3	45	S	3	o	999·8	+1	45	+1	S	2	-	b	2	4	46	42	bc.om	c.om	o.c.or.b	1·6
	Leith	1002·0	47	SW	1	c	1002·3	+2	44	-3	SW	1	SW	bc	2	1	53	44	c.bc	bc	c.or.b	*
	Tynemouth ...	1005·6	44	SSW	3	bcf	1004·6	+1	47	+2	WNW	1	W	c	3	3	49	44	cm	cm	cmp	*
	Spurn Head ...	1009·7	44	S	3	om	1007·4	+1	46	+3	SW	3	-	cm	5	1	46	42	c.o	om	f.or.cm	0·2
	Yarmouth ...	1011·5	45	SW	3	o	1009·5	+1	49	+7	SW	2	-	omd	2	1	49	42	cm	om	omd	0·2
	Clacton-on-Sea	1012·6	45	S	2	o	1010·4	0	47	+4	SSW	2	-	o	1	1	47	43	ogr	ogpd	ogpm	0·0
	Nottingham ...	1008·9	49	S	2	o	1008·8	*	47	+6	WSW	2	SW	c	*	2	51	41	cp.om	om	or.c	0·0
	Benson (Oxon.) ...	1010·7	49	SSW	3	r	1010·9	+3	46	+4	-	0	-	o	*	2	51	42	pd	ogd	r.oe	*
	Sth Farnborough	1011·5	50	SSW	3	r	1010·6	+2	47	+5	WSW	1	-	o	*	3	50	42	dm.od.o	md.od	r.d.o	0·0
	London (Kew Obsy.)	1011·9	49	SSW	3	omd	1011·1	+2	50	+6	SSW	2	-	om	*	2	51	43	o.omg.omd	rmd.om.omd	omd.om.om	0·0
NORTHERN EUROPE.	Spitsbergen ...	989·2	-11	W	4	s	995·0	+5	-31	-22	-	0	*	b	*	*	-8	-35				
	Vardö	995·5	+19	W	4	b	993·2	0	+23	+14	WSW	6	-	c	3	*	+23	+5				
	Bodö	1005·9	30	WSW	6	c	1005·5	-1	30	+2	W	4	-	c	2	*	30	25				
	Christiansund	1008·4	30	SE	2	b	1006·3	-1	34	+6	-	0	-	o	4	-	34	27				
	Skudesnaes ..	1011·3	37	SW	1	c	1007·8	-3	39	-2	WSW	5	-	o	5	?	41	34				
	Færder (X'iania Fjord)	1017·6	25	E	2	c	1015·9	-1	28	-2	ESE	2	-	o	1	-	30	25				
	The Scaw (Skagen)	1015·7	32	SE	4	c	1014·9	-2	36	-5	S	4	-	r	4	Trace	41	32				
	Blaavands Huk	1013·6	41	W	2	o	1013·9	+1	39	-2	SSE	1	-	f	2	-	41	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013·7	43	SSW	4	o	1012·3	-2	45	+2	S	4	-	o	2	-	45	43				
	C. Gris Nez ...	1014·3	46	S	4	o	1011·7	0	47	+9	SSW	5	*	f	3	3	46	38				
	La Hève	1014·3	46	SSW	5	f	1012·3	*	46	+7	SSW	4	*	r	4	30	50	39				
	Brest (St. Mathieu)	1012·0	51	S	6	f	1013·9	+2	50	0	W	2	*	c	5	3	52	48				
	Rochefort (Ile d'Aix)	1020·6	48	SSE	3	o	1017·0	0	46	+4	S	4	*	o	*	1	50	42				
	Biarritz	1020·8	58	S	2	c	1019·3	+1	55	+3	WSW	3	*	o	2	-	63	52				
	Paris	1019·1	45	S	3	o	1017·0	0	45	+13	SSW	2	-	r	*	2	48	32				
	Belfort	1024·0	40	W	4	c	1023·9	*	37	+11	-	0	*	o	*	-	47	26				
	Lyons	1025·7	40	SSW	1	b	1023·9	*	35	+9	-	0	*	o	*	-	47	26				
	Nice	1027·5	45	-	0	4	1024·2	0	44	+4	E	3	*	o	3	-	50	39				
	Perpignan ...	1026·4	45	-	0	0	1023·7	-1	43	+2	SSW	2	E	o	*	-	48	41				
	Sanguinaire ...	*	53	E	2	o	*	*	51	+4	E	3	*	o	3	-	55	45				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018·3	61	SW	5	o	1021·2	+4	48	-9	WSW	4	-	o	4	14	61	48				
	Madrid (8 a.m.)	1030·3	43	-	0	f	1026·3	-2	39	+2	N	1	-	r	*	1	43	37				
	Lisbon (9 a.m.)																					
	Gibraltar	1028·8	53	NW	6	b	1026·7	*	54	+4	W	4	*	o	2	-	60	49				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1023·1	0	52	+2	WSW	2	-	c	1	-	57	48				
	Azores (Horta, 8 a.m.)	1025·5	*	WNW	7	c							*									
	Madeira (Funchal)	1028·6	63	W	1	r	1031·1	+2	59	0	N	3	-	b	3	-	62	59				

South Farnborough: 7.50 a.m.

Pilot Balloon Ascent :-

Wind at 2,000 metres WSW 25 miles per hour.

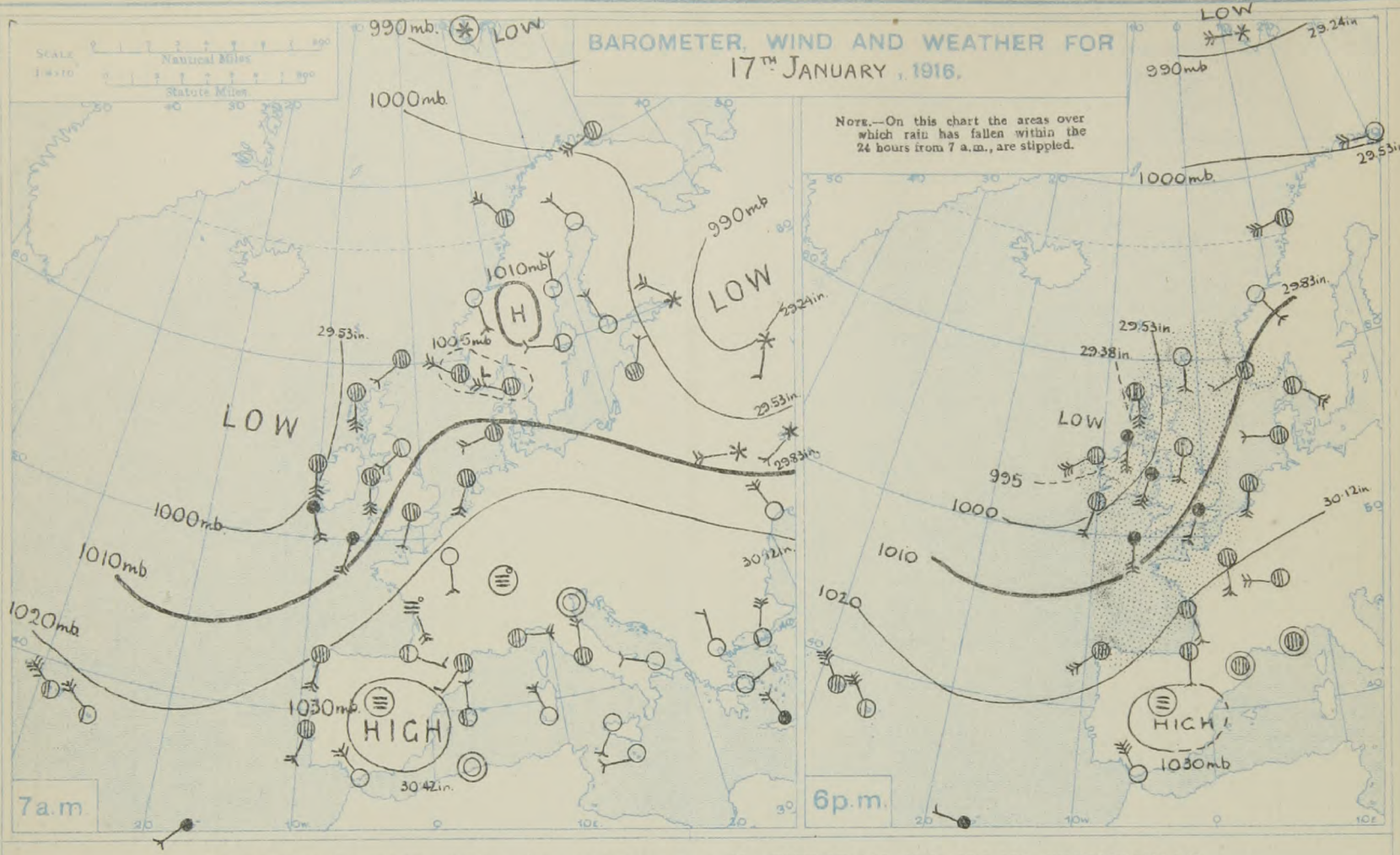
Wind at 500 m. W 20 m.p.h.

RAINFALL.

Equivalents of Millimetres. in Inches.

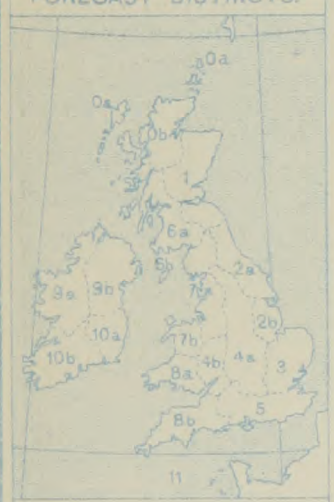
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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.

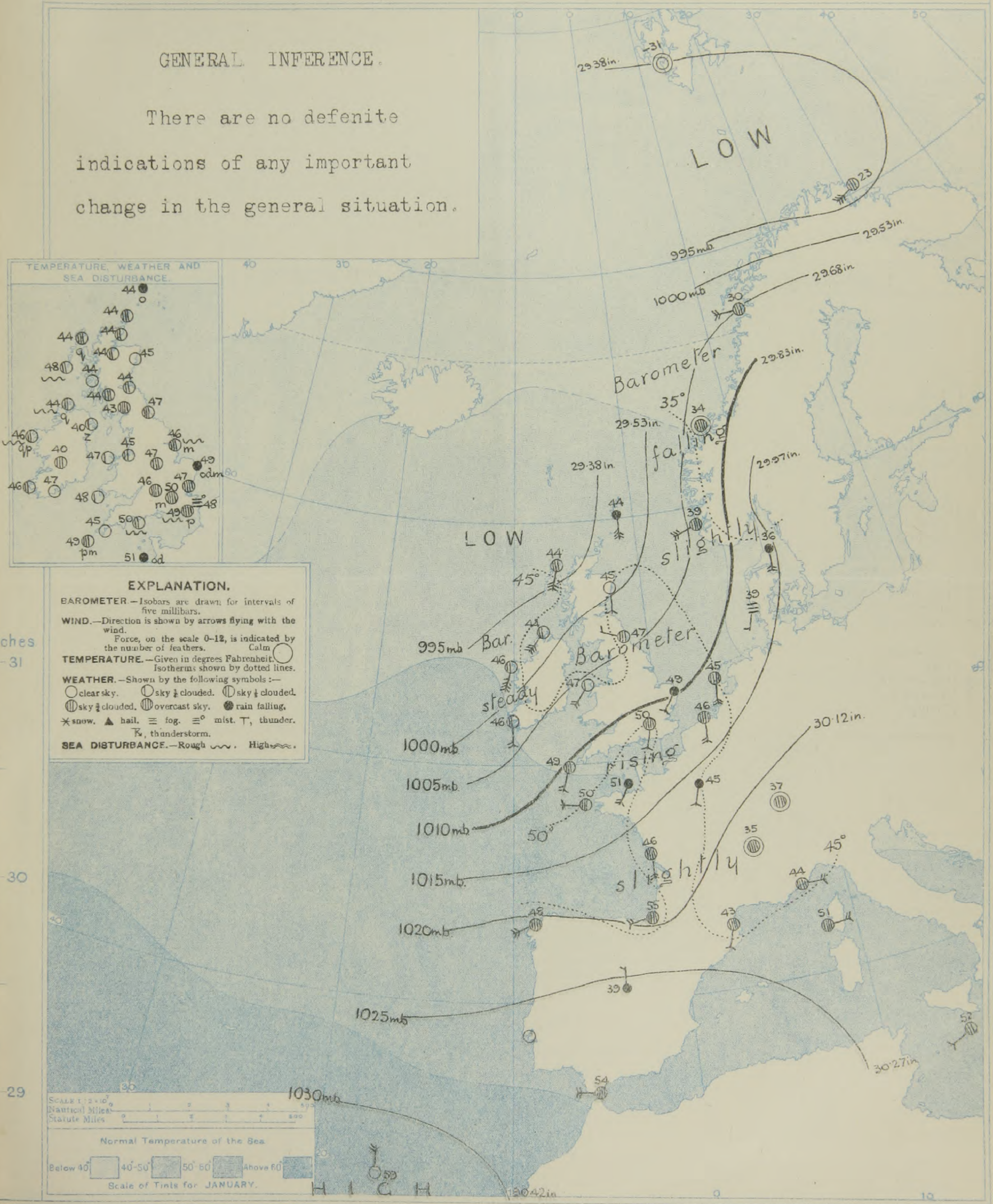
0 a, b; 1	Southerly and South-Westerly winds, light or moderate, fresh at times locally; fair, then showery; mild.
2 a, b; 3; 4 a, b; 5	Southerly and South-Westerly winds, light or moderate; weather improving temporarily, mild.
6 a, b	Same as Nos. 0 and 1.
7 a, b; 8 a, b; 9 a, b; 10 a, b	Southerly and South-Westerly winds, light or moderate, fresh at times locally; changeable, some showers and mist; mild.
Western Channel and Bay 11	Southerly and South-Westerly winds, light to fresh; sea moderate; some showers and mist or fog at times.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 18TH JANUARY, 1916.



Issue No. 19,780 DAILY WEATHER REPORT. Tuesday 18th January 1916.

REPORTS FOR YESTERDAY.

17th January

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	980·0	19	SE	2	o	992·6	+6	3	-18	NNW	4	-	s	*	1	23	1
Lisbon	1025·3	54	SSE	2	o	1018·4	0	55	+12	SSW	3	-	o	6	1	55	43
Rome	1026·0	43	-	0	b	1028·0	-	37	+1	N	3	-	o	*	-	*	*
Horta	1008·2	*	SW	8	f	1021·1	+4	53	-6	WNW	7	*	bc	6	1	64	50

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	49	42	op	op	0·0
	Banff	-	46	38	bc	bc	3·1
	St. Andrews	-	49	42	*	*	0·4
Eng. N.E.	Harrogate	-	46	40	o.c.o	c	0·0
	Skegness	-	45	41	cd o	og	0·2
Eng. N.W.	Morecambe	0·3	50	43	d.o	o	0·0
	Blackpool	2	49	43	o	o	0·2
	Southport	1	48	42	o.c.o	o	0·0
Midlands.	Buxton						
	Leamington Spa	0·2	51	41	d.o.c	o	0·0
	Malvern	-	50	41	o	dr	0·0
	Ross-on-Wye	1	52	42	o.od	dm.o	0·0
Wales.	Llandudno	-	54	46	c	c	0·8
	Rhyl	1	54	43	bc	c.o	0·1
	Colwyn Bay	-	54	45	bc	bc.o	0·5
	Aberystwyth	1	53	45	o.co	cr.o	0·0
	Tenby	7	50	45	or	r	0·0
England, E.	Lowestoft	-	46	42	o.c	c.o	0·0
	Felixstowe	-	45	41	om	om	0·0
	Walton-on-Naze	1	45	41	o.cmd	o.cm	0·0
	Southend-on-Sea	-	47	41	o	opdr	0·0
England, S.E.	Margate	1	49	41	o	op	0·0
	Ramsgate	1	47	40	or	od	0·0
	Hastings	4	49	43	bc or	or.o	0·0
	Eastbourne	5	49	44	or	o	0·0
	Seaford	5	48	44	r	r.o	0·0
	Brighton	4	48	45	o.or.p	o.or	0·0
	Worthing	3	48	44	d	o	0·0
	Littlehampton	10	48	40	dr.o	o	0·0
	Bognor	5	49	44	or	od	0·0
	Southsea	4	50	44	od	od	0·0
	Bournemouth	4	51	44	or	or	0·0
England, S.W.	Weymouth	4	52	46	od	p.o	0·0
	Torquay	12	52	46	od	od	0·0
	Paignton	5	54	46	od	r	0·0
	Penzance	6	53	40	c.or	or	0·0
	Newquay	*	52	47	or	or	0·0
	Ilfracombe	3	54	44	ode	d.r.o	0·0
	Weston-super-Mare ...	3	52	41	or.bc	cr	0·0

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.	Afternoon.	Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	96	92	0·0	57	43	42	1	oop	o	op.o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	94	92	0·0	52	48	42	1	or	or	ume
Camden Sq. (Brit. Rainfall)	97	94	0·0	52	44	44	2	od.o	odm	*
Hampstead (Reservoir) ...	*	90	0·0	50	40	37	3	or	om	om
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·0							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	95	88	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
74 Joules	24 Milliwatts.	6 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature In Screen Max.	In Screen Min.	Night Min. on Grass.	Weather Night.	Forenoon.	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 ,,	6	53	46	42	or	omod	or	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·3	51	43	36	om.o	od.om	od.o	*

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

18th & 19th January 1916.	Sunrise	Noon	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7. 55 / 7. 54	12.3 / 12.4	4.11 / 4.13
Greenwich	7. 59 / 7. 57	12.10 / 12.11	4.23 / 4.23
Wick	8. 48 / 8. 46	12.22 / 12.23	3.57 / 4.0
Valencia	8. 41 / 8. 40	12.31 / 12.32	5.2 / 5.4

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° over a large portion of the Kingdom and remained high during the night. Rain fell very generally, but not heavily, and little or no bright sunshine was recorded except at some Scottish 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.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 19. { Wednesday, 19th January.

	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 ...	999.2	44	SSW	4	b	995.1	-2	44	0	SSW	4	SW	bc	4	8	47	41	rf.bc	bc	bc	*
	Deerness (Orkney)	997.9	44	SSW	5	bc	992.5	*	43	-1	S	5	-	oe	5	-	45	42	c.bc	bc	bc.c.oe	3.2
	Stornoway ...	994.2	45	SSW	7	obq	985.2	-11	45	+1	SSW	8	-	orq	6	13	47	42	obq	c.obq	c.obq	0.1
	Castlebay (Barra Isd.)	996.2	48	SSW	6	ob	988.6	-10	46	-2	S	6	-	r	6	4	48	43	bc.om	om.ob	ob.bc.r	0.3
	Glasgow ...	1003.9	44	SSW	3	c	1000.2	-7	44	0	SSW	4	-	obq	*	0.1	48	41	c.bc.b	bc.c	c.obq	4.6
	Eskdalemuir ...	1006.9	43	S	5	o	1003.5	-4	43	0	SSW	7	-	o	*	0.2	44	41	o.c.o	o.c.o	o.ob.c	0.3
	Malin Head ...	1000.2	45	WSW	6	bcq	991.4	-13	45	+1	S	8	-	cmq	6	0.3	48	40	bcq	bcqb	cq	6.2
	Blacksod Point	999.7	43	SSW	8	bcqb	993.4	-4	51	+5	SSW	8	SW	omr	6	6	51	41	bcqb	bcqb	cb.omr	*
	Valencia ...	1006.0	45	SW	3	bc	1004.4	0	53	+7	SW	5	-	or	*	8	54	43	bcb	c.bb	bc.car	4.3
	Roche's Point	1009.0	48	SW	4	b	1008.2	*	51	+4	SW	4	-	r	4	2	50	45	bc.b	bcbq	b.bc.od	*
	Birr Castle ...	1005.8	43	S	1	bc	1002.1	*	51	+11	S	4	-	r	*	1	53	39	b	bcb	c.od.r	5.8
	Donaghadee ...	1004.2	45	SW	3	bz	1000.3	-6	45	+5	SW	5	-	omr	4	1	49	40	bm	bz	bc.omr	*
	Liverpool (Bidston)	1010.7	43	SSE	1	b	1010.1	-1	43	-2	S	2	-	b	2	1	50	39	bc	bc	b	2.9
	Holyhead ...	1008.5	48	SW	5	bc	1007.1	-3	49	+2	SSW	6	-	orm	5	1	50	46	b.bc.o.c	b.bc.c.o	bc.cb.o	3.1
	Pembroke (St. Ann's)	1011.0	48	SW	4	bq	1011.4	0	49	+1	SW	5	-	oq	5	0.2	49	46	bq	bq	cqb	4.6
	Scilly (St. Mary's)	1012.3	48	SW	5	cqb	1014.3	0	50	+1	SSW	5	SW	ob	6	1	51	46	c.bc	bc.cqb	bc.c.o	4.7
	Falmouth ...	1013.9	45	SW	2	b	1016.0	0	50	+5	SSW	4	-	o	*	2	51	43	od.bc	bc.b	bbq	4.2
	Jersey (St. Aubin)	1015.4	48	WSW	2	c	1021.8	*	47	-4	SW	4	-	b	3	1	52	46	d.ofe	fe.ob c	b.ob.b	0.0
	Portland Bill ...	1013.8	49	WSW	3	c	1017.8	+2	50	0	SW	5	SW	o	5	0.3	51	48	bc.c	c	b.bc.cb	*
	Dungeness ...	1013.6	47	SW	2	fd	1019.9	+2	46	-3	SW	3	SW	bc	3	4	49	44	of.mr	mr.f	f.c.bc	*
	Dover	1015.9	47	SW	3	f	1020.8	+2	46	-2	SW	4	W	bc	4	2	49	43	mr.ro	r.d rng	c bc	0.0
	Wick	998.9	45	SSW	3	c	994.1	-6	44	0	S	4	-	o	4	-	46	41	bcm	cm	cm.bc.o	*
	Nairn	999.5	43	S	1	bc	993.5	*	45	+1	SW	2	-	og	2	-	47	39	c.bc	bc.c	q.cbcc	5.1
	Aberdeen ...	1002.9	44	S	4	b	998.8	-5	44	-1	S	4	-	o	3	-	46	42	b	bc.b	b.o	4.5
	Leith	1005.4	44	W	1	bc	1001.3	-3	45	+1	SW	2	SW	c	2	-	48	42	bc.b.c	b	c.og.c	*
	Tynemouth ...	1007.5	45	SSW	3	bcm	1007.0	?-2	42	-5	S	2	S	cm	3	-	49	40	bcm	bcm	cm	*
	Spurn Head ...	1010.9	47	W	3	bc	1013.2	0	41	-5	SW	4	-	bc	4	*	47	39	ombc	bc	cm	3.1
	Yarmouth ...	1013.6	48	SSW	2	o	1017.9	+3	41	-8	SW	4	-	bcm	3	-	52	41	om	om	o.bcm	0.0
	Clacton-on-Sea	1014.1	47	SW	1	c	1018.7	+2	43	-4	SSW	4	-	bc	3	0.3	50	42	ogm	ogm.bc	cmf.bc	0.0
	Nottingham ...	1012.1	46	SSW	2	b	1013.8	*	42	-5	SSW	4	SW	b	*	-	50	38	c.bm	bm	b	2.2
	Benson (Oxon.) ...	1013.9	43	SSW	1	o	1017.4	+1	43	-3	S	4	-	b	*	-	50	40	o	c.o	bc.b	*
	Sth Farnborough	1014.2	46	SSW	2	m	1018.2	+1	44	-3	SW	4	-	oz	*	0.2	51	41	c.o	o.bc.abcm	m.or.b.o	0.0
	London (Kew Obsy.)	1014.6	47	SW	1	omw	1018.6	+2	43	-7	SSW	4	-	b	*	0.1	51	42	omw.o	o.om.omw	omw.cbcb	0.0
NORTHERN EUROPE.	Spitsbergen ...	1008.4	-29	-	0	c	1001.3	0	-31	0	SE	2	*	b	*	*	-29	-42				
	Vardö	995.8	+21	NNW	5	S	995.7	0	+18	-5	-	0	-	S	2	*	+23	49				
	Bodö	1002.4	25	E	4	c	995.3	-4	39	+9	SW	4	-	r	2	-	39	21				
	Christiansund	1001.0	41	-	0	c	999.7	-1	41	+5	-	0	-	c	4	5	43	36				
	Skudesnaes ..	1007.5	41	S	5	o	1006.3	-2	39	0	SSE	5	-	c	5	2	41	37				
	Færder (X'iania Fjord)	1011.4	30	N	2	f	1010.3	0	32	+4	W	1	-	m	2	-	32	28				
	The Scaw (Skagen)	1014.6	37	SSW	4	r	1011.1	0	37	+1	WSW	2	-	o	2	?	41	36				
	Blaavands Huk	1012.7	41	SSW	3	f	1014.7	+1	41	+2	WSW	1	-	m	1	3	41	37				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013.2	45	S	1	r	1018.3	+3	45	0	SW	3	-	b	2	3	46	43				
	C. Gris Nez ...	1014.9	47	SW	3	f	1020.3	+3	46	-1	S	4	*	b	3	1	50	45				
	La Hève	1015.1	46	SW	2	f	1022.0	*	43	-3	SW	4	*	bc	4	2	48	41				
	Brest (St. Mathieu)	1017.3	50	W	2	bc	1021.2	+1	51	+1	S	5	*	bc	6	-	52	50				
	Rochefort (Ile d'Aix)	1019.7	50	WSW	3	o	1027.0	+4	46	0	SW	3	*	c	*	5	52	45				
	Biarritz	1022.3	50	SW	3	r	1027.4	+2	46	-9	SW	1	*	o	5	8	55	45				
	Paris	1017.9	46	S	2	r	1025.1	+4	39	-6	SSW	2	-	b	*	4	48	39				
	Belfort	1021.0	45	W	2	c	1027.5	*	39	+2	W	4	*	o	*	-	53	35				
	Lyons	1021.5	44	S	1	b	1028.3	*	41	+6	-	0	*	o	*	-	50	35				
	Nice	1023.8	46	-	0	o	1028.2	+3	45	+1	-	0	*	c	2	-	50	43				
	Perpignan ...	1022.1	43	-	0	c	1027.5	+4	48	+5	NW	3	-	o	*	Trace	52	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023.9	54	W	6	c	1027.3	+3	52	+4	SW	3	-	r	5	3	55	48				
	Madrid (8 a.m.)	1023.9	43	W	1	o	1031.8	+4	34	-5	-	0	-	b	*	3	45	32				
	Lisbon (9 a.m.)																					
	Gibraltar	1029.1	53	W	6	b	1029.4	*	50	-4	NW	4	*	o	3	1	59	49				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1026.4	+1	52	0	W	1	-	o	1	-	59	50				
	Azores (Horta, 8 a.m.)	1032.2	*	WSW	5	c	1035.8	+1	?	?	SSW	?	*	?	4	-	63	59				
	Madeira (Funchal)	1034.3	?	N	3	bc	1036.3	0	57	-2	NE	4	-	bc	4	-	64	57				

GALES.

Duration and Extreme Force in British Islands

Stornoway :- 19th. 7h. SSW. 8.

Malin Head :- 19th. 6-7h. SSW. 8.

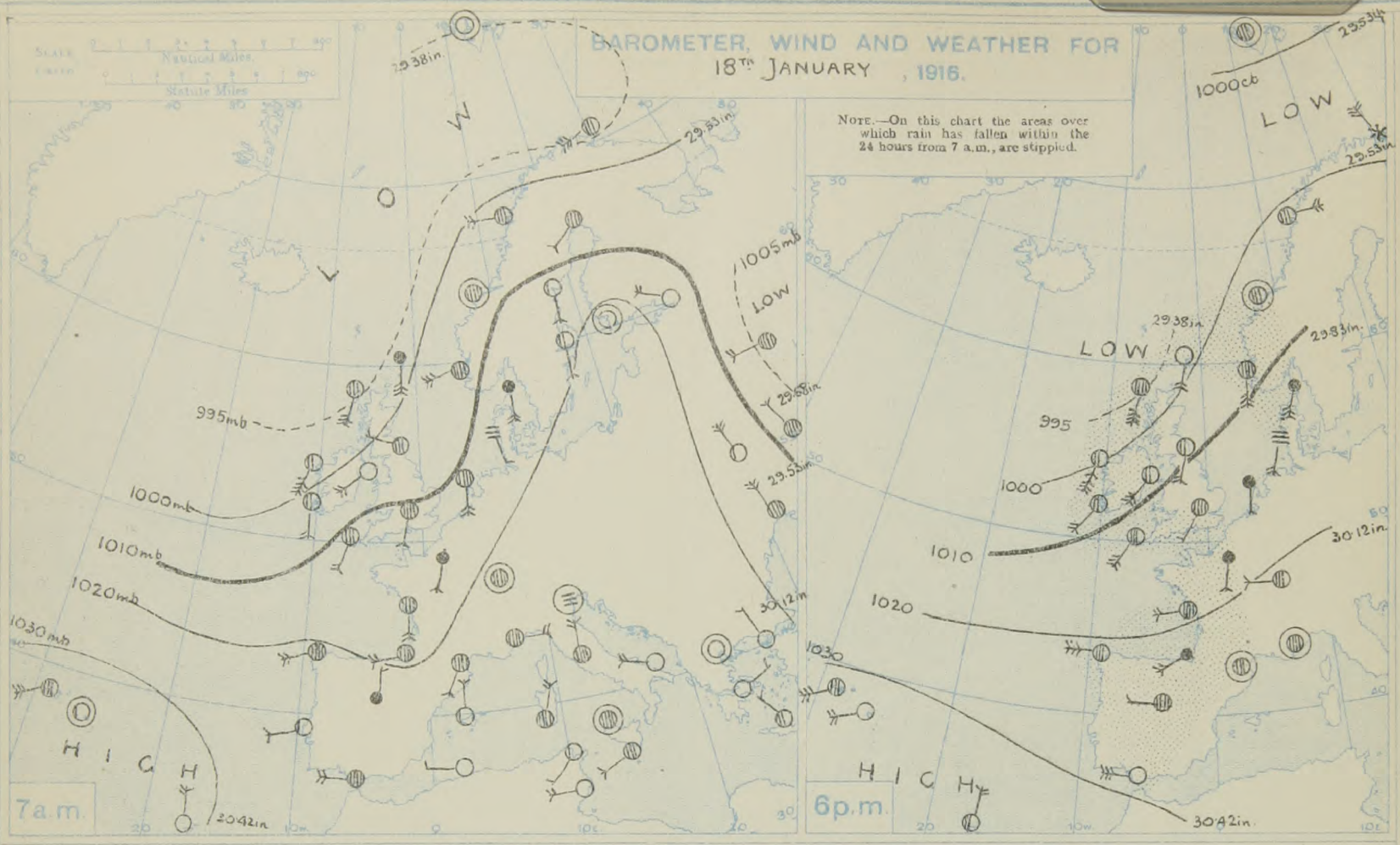
Blacksod Point :- 18th. – 19th. 13h, 18h, 21h. 47h. SSW 8.

South Farnborough :- 7.40 a.m.

Pilot Balloon Ascent :-

Wind at 500 metres – S.W. 36 miles per hour.

* 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.

0 a, b; 1	Southerly and South-Westerly winds, increasing to a gale in places; rainy or showery, mist locally; mild.
2 a, b; 3; 4 a, b; 5	Southerly and South-Westerly winds, increasing in force; becoming less fair, some rain or showers, mist locally; mild.
6 a, b; 7 a, b	Same as Nos. 0 and 1.
8 a, b	Southerly and South-Westerly winds, increasing in force; rainy and showery, misty; mild.
9 a, b	Southerly to Westerly strong winds or gales, then moderating; rainy to showery; mild.
10 a, b	South-Westerly and Westerly winds, strong to moderate; rainy then fairer; mild.
Western Channel and Bay 11	Southerly and South-Westerly winds, increasing in force; sea rather rough, showery and misty.

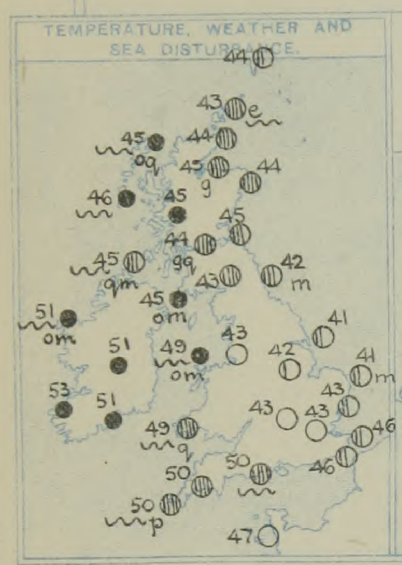
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 19TH JANUARY, 1916.

GENERAL INFERENCE.

The depression off the North-West coast will cause a considerable increase in the force of the wind generally. Gales are probable on the North and North-West coasts.



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

LOW

HIGH

Barometer falling

Barometer rising

1000mb 995mb 990mb 985mb 1005mb 1010mb 1015mb 1020mb 1025mb 1030mb 1035mb

29.53in. 29.68in 29.83in 29.97in 30.12in. 30.27in. 30.42in. 30.56in. 29.24in. 29.09in

Scale 1:2·10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for JANUARY.

Issue No. 19,781

DAILY WEATHER REPORT.

Wednesday, 19th January, 1916.

REPORTS FOR YESTERDAY.

18th January, 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1008.7	-19	W	2	b	1006.0	-2	10	+29	SW	2	-	o	*	-	10	-20
Hernosand	1015.4	-4	-	0	b	1011.0	-3	-4	-2	S	2	-	b	*	-	1	-9
Stockholm	1017.3	7	WSW	2	b	1019.5	0	5	-5	S	2	-	bc	*	-	12	3
Wisby	1017.7	21	NE	2	b	1021.7	+1	16	-9	SSE	2	-	b	*	-	27	14
Karlstad	1018.9	5	-	0	b	1018.9	-1	5	-14	-	0	-	o	*	-	21	-4
Petrograd	1005.0	-4	NW	4	b	1015.0	+5	-6	-9	WNW	3	-	b	*	-	3	-8
Lisbon	1025.9	57	SSW	4	r	1024.4	0	54	-1	WSW	2	-	b	?	16	59	54
Rome	1028.0	46	N	3	o	1025.7	0	?45	?+8	N	3	*	o	*	-	*	*
Horta	1025.5	*	WNW	7	c	1034.1	+1	57	+4	WSW	5	*	c	4	-	59	54

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	5	47	42	b	bc	2.4
	Banff	5	48	38	bc.b	b.bc	5.8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	48	40	c.bc	bc.b	2.1
	Skegness	1	50	44	o.bc	c.bc	1.5
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	3	50	42	c.bc	bc.b.	1.3
Midlands	Buxton	5	48	41	bc	bc	2.5
	Leamington Spa	2	50	43	c.bc	bc	2.9
	Malvern	-	50	43	c.bc	bc	2.2
	Ross-on-Wye	0.4	52	42	c	bcz	2.1
Wales	Llandudno	1	53	46	cp	b	3.6
	Rhyl	1	52	43	p.c	bc	4.8
	Colwyn Bay	-	49	45	b	bc	3.3
	Aberystwyth	5	49	45	r.o.c	c.bc	5.0
	Tenby	3	51	46	bc	b.	5.1
England, E.	Lowestoft	0.1	52	44	omd.c	c.o	0.0
	Felixstowe	0.2	50	42	om	of	0.0
	Walton-on-Naze	Trace	50	45	o.cmd	o.cm	0.0
	Southend-on-Sea	1	50	43	o	o	0.0
England, S.E.	Margate	5	52	42	r	r	0.0
	Ramsgate	3	51	45	r	r.m	0.0
	Hastings	4	50	46	orf	rcf	0.0
	Eastbourne	4	50	47	or.e	ocm	1.4
	Seaford	4	50	45	r	f	0.0
	Brighton	4	48	46	om	om.of.ofe	0.0
	Worthing	1	49	47	me	me	0.0
	Littlehampton	3	48	46	o	o	0.0
	Bognor	3	48	46	f	o.c	0.0
	Southsea	3	50	45	o	o	0.2
	Bournemouth	—	51	46	o.c	c	1.1
England, S.W.	Weymouth	3	52	46	z.bc.c	p.c	3.1
	Torquay	5	52	43	bcm	bc	2.6
	Paignton	5	52	43	b cp	b c	2.5
	Penzance	2	52	45	c.bc	bc.	4.6
	Newquay	?	51	43	bc	b	2.9
	Ilfracombe						
	Weston-super-Mare	-	52	43	bc.b	bc.c	2.5

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.)	88	89	0.0	51	41	33	-	o	o	o.bc.o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	82	86	0.0	52	44	37	0.2	om	om	ad b
Camden Sq. (Brit. Rainfall)	85	89	0.0	51	42	37	0.3	om.o	c	*
Hampstead (Reservoir)	*	94	0.0	49	40	32	-	o.	o.c	bcom
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.)	83	87	0.0

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
178 Joules	59 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.	0.3	50	45	41	o.c.b	b	bp	*
Darwen to 9 p.m.	4	48	38	35	ocm	c.b	bcop	1.5
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	3	53	44	35	oc c	b c	gpbc	3.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	52	49	40	od	o. c	bom	*

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

19th & 20th January 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	7.54 / 7.53	12.4 / 12.4	4.13 / 4.15
Greenwich	7.57 / 7.56	12.11 / 12.11	4.25 / 4.26
Wick	8.46 / 8.44	12.23 / 12.23	4.0 / 4.3
Valencia	8.40 / 8.39	12.52 / 12.52	5.4 / 5.5

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or above at many stations and remained high during the night. Much bright sunshine was recorded in Ireland and a considerable amount in Great Britain. Rain fell in most places but was generally slight.

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. 20. {Thursday, 20th January

	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 ...	976.6	45	SSW	6	oq	978.0	+2	41	-3	SW	7	-	oq	5	25	46	38	orq	orq	cqlslp	*
	Deerness (Orkney)	977.3	44	SW	6	b	982.7	*	40	-3	SW	6	SW	bc	6	6	48	39	orqu	r.c.bc.b	bbclpq	0.0
	Stornoway ...	976.8	43	SW	7	cpq	986.4	+4	40	-5	W	7	-	cq	6	19	53	40	orq	or.cp.q	o.cpq	0.0
	Castlebay (Barra Isd.)	984.0	45	SW	8	op	992.6	+4	42	-4	W	8	-	opq	7	3	52	38	r.	r.c.op	bcopq	0.1
	Glasgow ...	990.6	46	WSW	7	bq	998.2	+2	38	-6	WSW	4	-	oq	*	14	52	35	oqr	oqr	cptlh	0.6
	Eskdalemuir ...	994.5	44	SW	5	or	1001.9	+1	37	-6	SW	5	-	o	*	31	47	36	orm	m.or	or.c.o	0.0
	Malin Head ...	989.4	47	WSW	9	cq													omrq	cqr		
	Blacksod Point	996.4	43	WSW	9	cmqp	1004.4	+4	40	-11	WNW	9	NW	cqmq	7	4	52	35	omqr	omqph	cmqph	
	Valencia ...	1008.5	50	SW	6	bc	1016.6	+7	41	-12	WNW	6	W	cplq	*	3	55	41	omq	oc.bqp	bp.clpq	0.0
	Roche's Point	1008.8	49	W	4	b	1015.1	*	42	-9	NW	3	NW	b	3	4	54	42	d.f	d m.o.b	b.bcqp	*
	Birr Castle ...	1004.9	47	W	5	c	1010.7	*	37	-14	W	4	-	r	*	9	55	36	od.r	cpq	orq	0.0
	Donaghadee ...	995.2	47	W	6	bcqp	1003.1	+1	38	-7	W	5	W	cqmpl	5	8	55	38	ompdq	or.bcq	bcqpl	*
	Liverpool (Bidston)	1001.0	53	SW	6	r	1008.8	0	45	+2	SW	3	SW	o	4	2	55	43	opq	bc	o	0.0
	Holyhead ...	1003.0	50	W	7	orqgm	1008.8	0	44	-5	WSW	6	-	oq	5	7	51	44	or.om	qd.om	c.bc.c.o	0.0
	Pembroke (St Ann's)	1007.0	51	SW	7	fqr	1013.5	-1	46	-3	W	5	W	cqp	5	3	51	44	oqrm	fqr	cq	0.0
	Scilly (St. Mary's)	1013.2	52	WSW	6	fd	1019.8	+1	49	-1	W	7	W	bql	6	2	52	47	fd	fd	fd.cm.b	0.0
	Falmouth ...	1013.8	52	SW	5	rq	1019.6	+1	47	-3	WSW	5	-	bc	*	10	52	45	rq	rq	odq.bc	0.0
	Jersey (St. Aubin)	1019.5	51	SSW	4	o	1021.9	*	49	+2	W	4	-	b	4	4	52	46	bc.c	op.d.o	od.o.b	2.8
	Portland Bill ...	1013.3	50	SW	6	mr	1016.9	+3	48	-2	WSW	5	W	bc	5	1	51	47	c.o	or	or.b.bc	*
	Dungeness ...	1014.6	48	SW	7	r	1015.7	+2	45	-1	WSW	4	-	b	4	2	49	44	bc.c.bc	bc.or	op.b	*
	Dover	1016.4	47	SW	7	od	1017.2	+3	43	-3	W	4	-	b	3	6	49	42	c.o.c	c.bc.od	dr.o.c.b	0.9
	Wick	978.9	44	WSW	2	bc	985.8	+4	38	-6	W	4	-	bc	4	6	49	36	ompd	omd.cp	bcqph	*
	Nairn	982.0	45	W	6	cpqg	990.4	*	36	-9	WSW	4	-	ou	3	8	54	36	q.bc.c	prud	qru	0.3
	Aberdeen ...	985.1	48	SW	6	cq	992.4	+4	39	-5	SW	5	-	b	3	2	55	39	oqqp	opcq	c.bq.bc	0.0
	Leith	991.2	46	W	3	o	997.8	+1	39	-6	W	3	-	r	4	12	53	37	c.oqr	oq.r.o	oq.cr	*
	Tynemouth ...	994.1	54	SSW	6	r	1002.6	0	43	+1	WSW	4	W	bcmq	4	1	54	39	cmq	cmq	bcmpq	*
	Spurn Head ...	1001.6	50	SW	7	cq	1008.0	+1	47	+6	WNW	6	-	bcq	5	2	51	39	oq	cqp	bcq	1.4
	Yarmouth ...	1010.4	49	SW	8	bc	1012.1	+3	44	+3	SSW	3	-	b	3	2	52	40	bcm	bcm	o.cp.bc	3.4
	Clacton-on-Sea	1013.1	47	SSW	6	o	1014.7	+2	43	0	SW	3	SW	bc	2	3	50	43	bc.c	cqq	ogr.bc	1.3
	Nottingham ...	1004.4	54	SW	7	c	1010.8	*	41	-1	WSW	3	-	b	*	2	55	41	cop	op.c	cr.o	0.3
	Benson (Oxon.) ...	1011.0	51	SSW	6	o	1015.7	+1	41	-2	SW	3	-	b	*	?	52	40	o	orq	oqd c.b	*
	Sth Farnborough	1012.4	50	SSW	8	r	1016.5	+2	41	-3	SW	3	-	b	*	3	52	40	od.o	r	r.o.b	0.0
	London (Kew Obsy.)	1012.3	51	SW	6	o	1016.2	+2	43	0	SW	3	-	b	*	3	52	43	b.bcawo	o.oqd.o	oqdr.b	0.0
NORTHERN EUROPE.	Spitsbergen ...	1000.2	-33	-	0	b	997.3	0	-35	-4	SSE	3	*	b	*	*	-31	-40				
	Vardö	1019.7	+19	N	2	bc	992.2	-3	+21	+3	SE	2	-	S	3	*	+21	+16				
	Bodö	990.1	37	SE	2	b	973.7	-3	32	-7	ESE	5	-	m	2	*	37	30				
	Christiansund	980.4	45	SE	1	c	974.3	-2	43	+2	SW	6	-	c	4	-	45	36				
	Skudesnaes ..	987.9	41	WSW	8	r	988.0	+3	41	+2	S	9	-	o	8	18	41	39				
	Færder (X'ania Fjord)	999.1	39	S	7	m	990.3	0	39	+7	SW	7	-	m	4	7	39	32				
	The Scaw (Skagen)	1005.7	39	SSW	5	o	997.0	+3	41	+4	WSW	5	-	c	5	6	45	28				
	Blaavands Huk	1009.6	41	SSW	5	o	1002.5	+2	43	+2	WSW	5	-	bc	5	2	43	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013.1	45	S	8	c	1011.3	+2	45	0	WSW	4	-	b	3	2	48	43				
	C. Gris Nez ...	1016.6	46	SSW	6	r	1016.6	+3	47	+1	W	6	*	b	5	3	48	45				
	La Hève	1018.9	47	WSW	5	r	1018.9	*	46	+3	WNW	4	*	b	3	2	48	43				
	Brest (St. Mathieu)	1021.1	51	SW	5	f	1025.1	+2	50	-1	WNW	4	*	b	5	1	52	46				
	Rochefort (Ile d'Aix)	1028.6	49	SSW	3	bc	1026.0	0	51	+5	WSW	5	*	r	*	2	52	46				
	Biarritz	1028.6	50	NE	1	b	1030.6	+2	49	+3	SSW	3	*	o	6	-	57	46				
	Paris	1025.9	45	SSW	4	o	1021.5	0	45	+6	SW	3	-	r	*	2	48	39				
	Belfort	1030.6	42	W	2	f	1027.9	*	39	0	W	4	*	o	*	-	45	38				
	Lyons	1031.1	43	SW	1	b	1030.7	*	35	+6	S	1	*	o	*	-	49	33				
	Nice	1030.1	47	-	0	r	1028.2	0	40	-5	-	0	*	b	2	Trace	52	39				
	Perpignan ...	1029.9	47	-	0	b	1031.3	0	36	-12	W	1	-	b	*	-	57	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1029.9	57	NNW	4	f	1033.3	+1	55	+3	WSW	2	-	f	6	2	57	52				
	Madrid (8 a.m.)	1029.6	46	-	0	bc	1037.6	+5	34	0	N	1	-	bc	*	Trace	48	34				
	Lisbon (9 a.m.)																					
	Gibraltar	1027.7	51	W	3	b	1030.8	*	50	0	E	4	*	b	1	-	55	45				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1030.0	+1	55	+3	NE	3	-	c	2	-	57	52				
	Azores (Horta, 8 a.m.)		*				1034.6	-1	60	0	SSW	6	*	o	3	-	64	59				
	Madeira (Funchal)	1035.0	64	NE	4	bc	1032.7	0	59	+8	NE	3	-	bc	3	-	64	57				

South Farnborough: 7.40 a.m.

Pilot Balloon Ascent. –

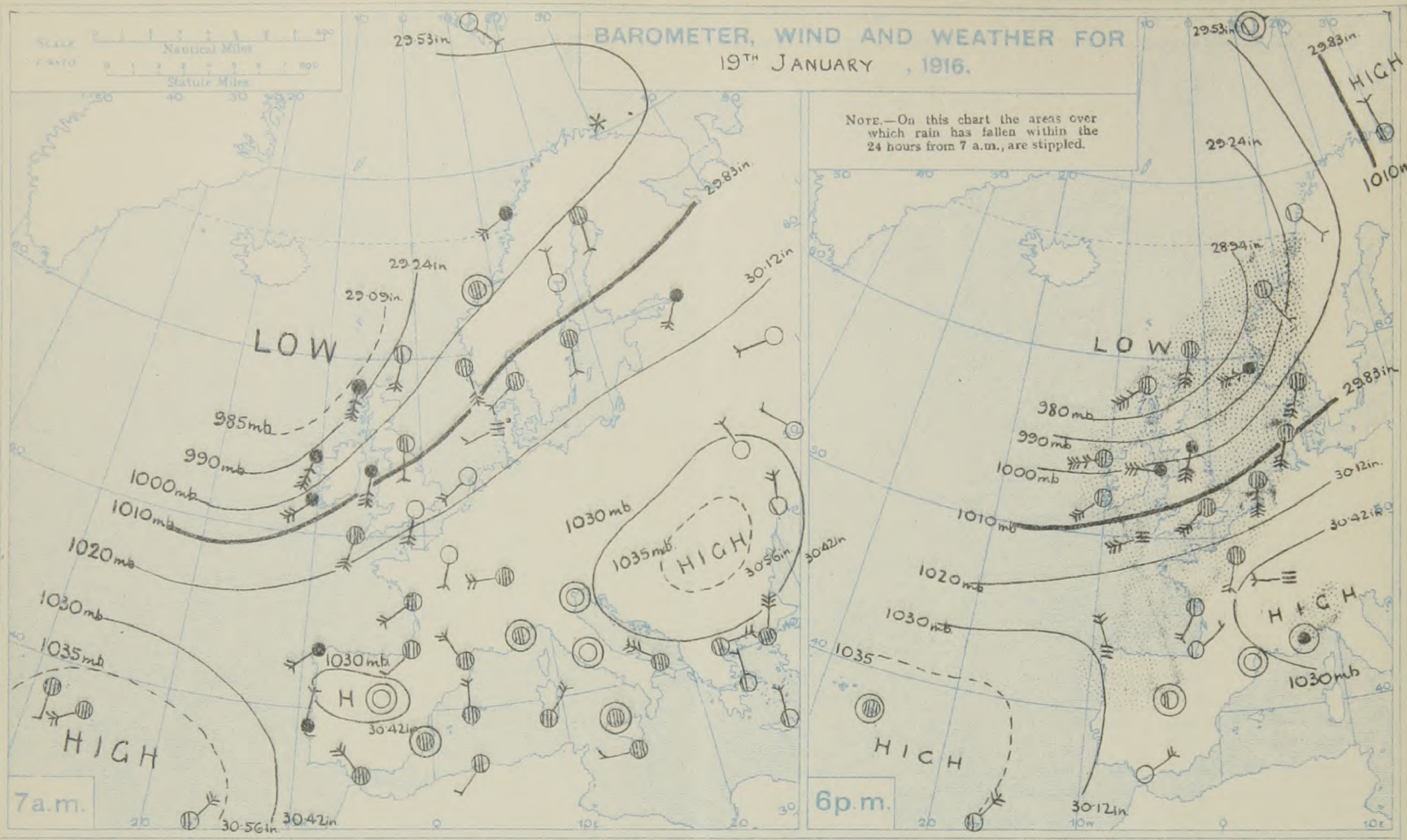
Wind at 1,500 metres W 40 miles per hour.
" " 500 " W by S 40 " " " .

GALES.

Duration and Extreme Force in British Islands.

Lerwick - 19th.
12h - 16h - S.8.
Deerness - 19th.
9h - 11h - SSE.8.
16h SSE 25 m.p.s.
Stornoway - 19th.
18h. - Squalls SW.8. (9 during night)
Castlebay - 19th.
8h - 12h. SW.8.
16h. SW.9.
Glasgow - 19th. 15h.
Squall W.8.
20th Squalls WSW 6.
Eskdalemuir - 19th.
9h - 13h - 15h - 17h SSW 8
Gust SW 30 m.p.s.
Malin Head - 19th.
13h. SW.8
18h. WSW.9.
Blacksod Point - 19th & 20th
13h. SSW.8. | 17h. WSW 10
18h. - 1h. WSW 9. | 7h. WNW 9
Holyhead - 19th.
10h. SSW 8
Gust SW 20 m.p.s
Dungeness - 20th.
1h. Squalls SW.8.
Nairn - 19th - 20th
23h - 5h W.8.
Aberdeen - 19th.
11h. Gusts S 20 m.p.s.
17h. - WSW 27 m.p.s.
Yarmouth - 19th.
15h - 21h. SW.8.
South Farnborough - 19th.
18h. SSW.8.
Kew: - 19th
Extreme SW.8 at 14h. & 19h. 35m.
Southport.
Gale during night.
Ext. gust SW 27 metres per sec.

* 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:—

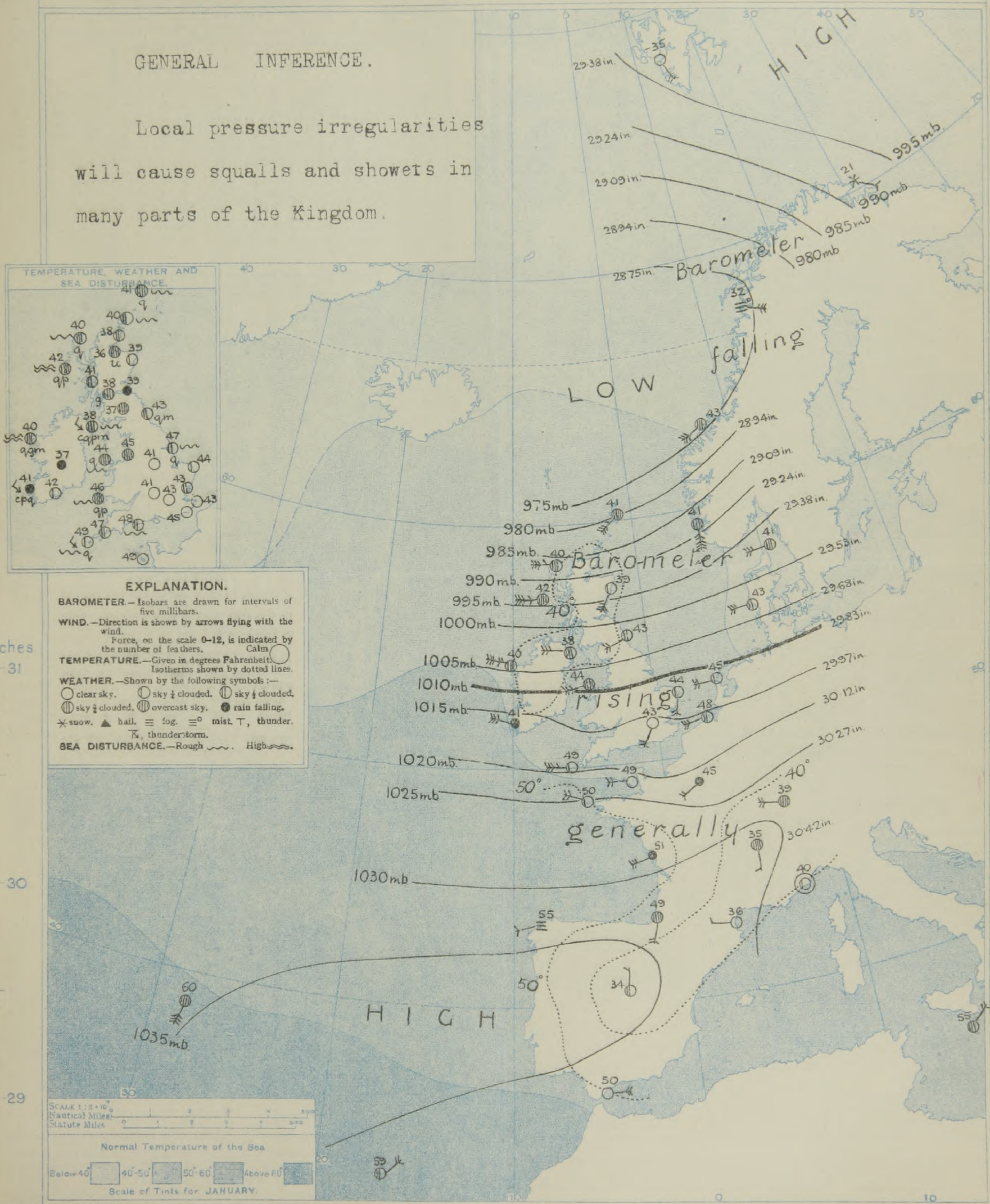
Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

0 a, b, 1	Wind South-Westerly or Westerly, moderate or fresh, strong at times; squally, showery; moderate temperature.
2 a, b, 3, 4 a, b, 5	Wind mainly Westerly, light or moderate, stronger occasionally; squally, some showers, considerable fair intervals; cooler than of later
6 a, b	Same as Nos. 0 and 1.
7 a, b, 8 a, b, 9 a, b, 10 a, b	Wind between West and North-West, fresh or strong, squally, showery, fair intervals; cooler.
Western Channel and Bay 11	Westerly winds, fresh or strong; sea rough, some squalls and showers, otherwise fair.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 20TH JANUARY, 1916.



Issue No. 19782

DAILY WEATHER REPORT.

Thursday, 20th January, 1916.

REPORTS FOR YESTERDAY.

19th January.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda ...	1007·5	1	SW	2	b	1001·1	−4	14	+4	S	2	–	o	*	–	14	−2
Hernösund ...	1010·3	5	N	2	b	1008·1	−1	7	+11	N	2	–	b	*	–	19	−8
Stockholm ...	1016·0	28	SSW	2	o	1011·3	−2	34	+29	S	2	–	o	*	–	34	+5
Wisby	1018·1	32	SSW	2	o	1015·1	−1	36	+20	SSW	4	–	m	3	1	36	16
Haparanda	1014·6	23	–	0	f	1010·3	−3	34	+29	–	0	–	f	*	5	34	3
Petrograd	1017·0	12	SW	2	o	1015·5	0	25	+31	SSW	4	–	r	*	–	36	−6
Lisbon	1028·8	54	WNW	4	o	1028·7	+2	52	−2	NNE	2	–	r	*	6	59	50
Rome	1025·2	48	N	3	o	1027·6	0	45	0	–	0	–	o	*	–		–

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	52	42	bc	ul	0·0
	Banff	2	51	40	bc	bc.rq	0·7
	St. Andrews	5	52	41	*	*	0·0
Eng. N.E.	Harrogate	0·4	53	40	o	or	0·0
	Skegness	0·1	50	40	c.bc	og	1·8
Eng. N.W.	Morecambe	5	51	40	od	d	0·0
	Blackpool						
	Southport	2	54	40	oc or	or	0·0
Midlands.	Buxton	1	50	42	cr	cr	0·0
	Leamington Spa	–	54	39	bc.c	c	0·2
	Malvern	–	54	39	c	c	0·0
	Ross-on-Wye	0·3	53	41	om d	or	0·0
Wales.	Llandudno	7	58	45	cpqr	q	0·0
	Rhyl	1	55	43	oq	cq	0·7
	Colwyn Bay	2	57	45	bc	bcp	0·0
	Aberystwyth	2	52	45	o.c.o	or	0·0
	Tenby	4	51	45	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	–	49	40	bc.c	c.o	3.3
	Felixstowe	0·2	48	41	bc	bc.o	2.6
	Walton-on-Naze	0·3	47	42	bz.bc	bc.o.c	1.6
	Southend-on-Sea	–	48	42	bc.c	o	1.4
England, S.E.	Margate	0·3	49	47	c	c	0.0
	Ramsgate	0·3	47	40	c	c	0.0
	Hastings	1	49	43	op.bc.b	bc.or	2.7
	Eastbourne	1	52	46	bc	bc.orq	2.3
	Seaford	1	49	45	f.o.c	c.r	2.8
	Brighton						
	Worthing	1	49	45	c	or	0.4
	Littlehampton	1	49	45	abc	m d.r	1.0
	Bognor	1	49	46	o.bc	od	0.5
	Southsea	1	50	44	o	od	0.0
	Bournemouth	3	51	44	or	or	0.0
England, S.W.	Weymouth...	2	52	44	cq.o	od	0.0
	Torquay	6	53	43	od.r	or	0.0
	Paignton						
	Penzance	3	53	47	omr	omr	0.0
	Newquay	*	53	42	or	or	0.0
	Ilfracombe	3	55	45	od	d	0.0
	Weston-super-Mare ...	–	54	39	c.o	c	0.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 1 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	80	0·2	53	43	37	3	c,o	bc d.	bc
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	83	0·0	54	43	37	2·2	b,od	ud	bc
Camden Sq. (Brit. Rainfall)	58	85	0·0	53	42	37	2	b,c	o,od	*
Hampstead (Reservoir) ...	*	85	0·0	51	39	32	2	od	bc	bc
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.
127 Joules	4·2 Milliwatts.	11 Milliwatts.

STATIONS.	S. Kensington (Roof of M.O.)
Humidity. 1 p.m. Yesterday.	86
Humidity. 9 a.m. To-day.	82
Sunshine for Yesterday.	0·0

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	57	44	40	bc.op	oq.c	cqp	*
Darwen to 9 p.m.								
Manchester ,,	5	54	41	*	bc.op	or.o	or.d.rc	0.0
Birmingham ,,					*			
Oxford to 8 p.m.	*	53	40	36	bc.b	bc.oq	orq	*
Teignmouth to 9 ,,	2	54	43	37	bcqp.c	o.od	od	0.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	54	43	35	bc.oq	oq	o,or	*

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

20th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·53	12·4	4·15
Greenwich	7·52	12·4	4·16
	7·56	12·11	4·26
	7·55	12·11	4·27
Wick	8·44	12·23	4·3
	8·42	12·23	4·5
Valencia	8·39	12·32	5·5
	8·38	12·32	5·6

NOTES ON YESTERDAY'S WEATHER.

Temperature again exceeded 50° over a large area. Rain fell generally; 31 millimetres at Eskdalemuir and 25 millimetres at Lerwick. Little or no bright sunshine was recorded except in the East and Southeast of England and at Jersey.

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. 21.

Friday 21st January

	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 ...	988·6	39	W	7	cq	986·0	-11	41	*	S	7	-	omq	6	9	43	36	cq.sp	oq.sp	cq.pom	*
	Deerness (Orkney)	994·9	37	W	6	cph	985·8	*	43	+3	SSW	5	-	c	5	6	44	37	bcp.bc	cphcl	cp.c	0·3
	Stornoway ...	998·8	40	W	7	bchpq	986·4	+1	48	+8	WSW	8	-	oq	6	7	49	37	bcpq	bcphq	bc.opq	1·6
	Castlebay (Barra Isd.)	1003·6	45	W	6	opq	992·3	+1	49	+7	W	4	-	om	6	2	51	39	hpqbc	bc.opq	omq.om	1·4
	Glasgow ...	1008·4	39	WSW	3	o	997·5	-4	50	+12	SW	5	-	ogd	*	14	50	35	bchp	o.cph	op.oqr	0·3
	Eskdalemuir ...	1011·1	36	SW	5	c	1002·0	-1	46	+9	SSW	3	-	om	*	26	46	33	ospq.c	osq.c	aorq	0·9
	Malin Head ...	1008·5	45	W	8	cqp	996·2	0	52	+12	SSW	8	-	omq	8	1	52	39	bcqp	cqp	omq	1·7
	Blacksod Point	1010·6	46	SSW	7	cm	1001·4	+4	50	+10	SW	6	-	omp	7	6	52	36	cmqp	cm	omqd	*
	Valencia ...	1016·5	48	S	4	o	1010·9	0	53	+12	SW	5	-	o	*	11	54	40	o.c	c.o	r.od	1·9
	Roche's Point	1020·9	48	W	3	o	1014·0	*	52	+10	WSW	4	-	r	5	7	52	40	bc.b	o	od	*
	Birr Castle ...	1018·0	44	W	2	c	1008·1	*	54	+17	W	6	-	r	*	4	54	36	cp	c	orq	0·0
	Donaghadee ...	1011·8	41	W	5	cqmp	999·4	-3	54	+16	WSW	6	-	omq	5	10	54	35	cqmps	bcqps	or.omq	*
	Liverpool (Bidston)	1017·2	44	WSW	4	o	1008·2	-6	52	+7	SSW	5	SW	oq	5	1	53	43	bcq	bcq	or	2·8
	Holyhead ...	1017·0	46	W	6	oqg	1008·3	0	51	+7	SW	7	-	oeqm	7	7	51	41	o.c.bc.c	bc.c.o	o.orm	4·5
	Pembroke (St. Anns)	1022·1	43	W	4	cqp	1014·8	-1	51	+5	SW	6	-	oqpdm	6	8	50	40	bcq	cq	oqr	3·0
	Scilly (St. Mary's)	1025·5	49	SW	4	bcm	1020·3	+2	52	+3	W	6	-	omqp	6	2	52	45	bc.cqm	cq.bcm	comqp	0·9
	Falmouth ...	1025·9	46	WSW	2	b	1020·6	0	51	+4	WSW	7	-	odq	*	5	51	43	rqdqc	bq.bc.c	dqrq	2·7
	Jersey (St. Aubin)	1027·5	48	WNW	3	o	1026·0	*	50	+1	S	4	-	oq	4	1	52	47	oqp.c	c	b.oq	2·7
	Portland Bill ...	1025·5	?48	W	4	c	1020·4	-2	51	+3	SW	6	-	o	6	3	52	43	bc.cp	b.bc.	bc.c.or	*
	Dungeness ...	1021·5	43	W	3	b	1019·8	-3	48	+3	SW	7	-	oq	6	3	49	43	bc	bc	bc.orq	*
	Dover	1021·8	42	W	3	b	1020·9	-3	47	+4	SW	7	SW.	o	6	1	49	41	b.bc	b	b.bcod	6·6
NORTHERN EUROPE.	Wick	997·8	35	WNW	4	c	988·1	-5	43	+6	SSW	3	-	o	3	3	43	34	bcopb	o.cmpq	prsom	*
	Nairn	1001·9	35	W	3	cu	989·4	*	49	+13	WSW	5	-	dqmo	4	5	49	33	prsm	qpsc	qprq	1·1
	Aberdeen ...	1002·9	37	WSW	4	b	991·9	-11	43	+4	SSW	4	-	o	2	-	43	37	b	b	bbccq	5·0
	Leith	1007·7	39	W	3	c	996·1	-2	50	+11	SW	3	W	c	4	7	52	36	rhsc	crqp	crq.c	*
	Tynemouth ...	1009·8	41	W	4	bcmq	1001·1	-9	49	+6	SW	3	-	cm	4	-	49	38	bcmq	bcmq	cmq	*
	Spurn Head ...	1014·8	44	NW	7	bc	1016·1	-6	44	+3	SW	5	-	oqr	?	3	48	?	cq	bcq	oq	0·0
	Yarmouth ...	1017·1	41	W	3	b	1015·4	-10	44	0	SW	5	-	o	4	5	47	39	bcp	b	bcmor	3·2
	Clacton-on-Sea	1020·1	42	W	3	bc	1018·0	-4	46	+3	SSW	4	SW	o	3	2	46	40	bccp	bc	bcopq	3·0
	Nottingham ...	1018·6	40	SW	4	b	1011·5	*	48	+7	SW	5	SW	o	*	5	48	39	cq.bc	bc.b	bc.o	2·3
	Benson (Oxon.) ...	1022·6	41	WSW	3	o	1017·3	-3	49	+8	SW	6	-	o	*	4	49	39	qr.b	b	c.oe	*
	Sth Farnborough	1022·6	42	W	5	c	1018·7	-4	48	+7	SW	6	-	o	*	2	48	40	b.bcr.bc	bc.b.bc.c	or.o	4·4
	London (Kew Obsy.)	1022·4	43	W	4	b	1018·5	-4	49	+6	SW	6	-	oq	*	4	49	42	bbcc.orq	c.bcq.b	bcorq.o	3·5
	Spitsbergen ...	996·7	-20	-	0	bc	996·8	+1	-9	+26	S	1	*	c	*	*	-20	-36				
	Vardö	987·1	27	ESE	2	o	989·7	+4	25	+4	SE	6	-	o	4	*	27	16				
	Bodö	972·4	39	E	2	c	979·4	+5	37	+5	W	4	-	b	2	1	39	25				
	Christiansund	977·7	39	WSW	5	o	988·4	+3	39	-4	SW	4	-	c	4	4	43	37				
	Skudesnaes ...	995·7	39	WNW	8	c	999·7	-3	41	0	S	3	-	o	5	-	41	36				
	Færder (X'iania Fjord)	990·9	39	SW	7	b	1001·7	+4	37	-2	WSW	6	-	c	4	-	39	37				
	The Scaw (Skagen)	999·5	39	W	4	b	1007·0	+3	39	-2	W	5	-	bc	5	1	43	37				
	Blaavands Huk	1006·4	41	WSW	5	bc	1013·5	0	41	-2	W	3	-	o	4	Trace	45	37				
	Haparanda ...	978·3	30	SW	2	o	985·6	+3	19	+6	S	2	-	f	*	9	32	12				
	Hernösand ...	984·0	34	S	2	c	992·0	+5	36	+2	-	0	-	o	*	-	39	27				
	Stockholm ...	993·9	39	SW	4	bc	999·8	+3	36	+1	WSW	4	-	b	*	-	41	34				
	Wisby	1001·0	37	SW	4	b	1006·4	+4	36	+1	SW	4	-	b	4	-	41	34				
	Karlstad	994·3	37	W	2	b	1002·0	+6	34	-3	WSW	4	-	o	*	-	39	30				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1014·4	43	W	7	c	1017·9	-4	45	0	SSW	4	-	r	4	2	46	41				
	C. Gris Nez ...	1022·1	46	W	6	b	1021·1	-5	47	0	SW	7	*	o	6	1	48	45				
	La Hève	1025·0	46	WSW	5	o	1024·4	*	45	-1	SW	5	*	b	5	1	48	43				
	Brest (St. Mathieu)	1030·7	51	W	3	bc	1027·7	-1	50	0	SW	5	*	m	5	-	52	50				
	Rochefort (Ile d'Aix)	1032·4	50	WNW	3	c	1032·2	0	46	-5	SW	3	*	o	*	2	57	43				
	Biarritz	1033·7	52	-	0	f	1033·3	0	48	-1	SSE	2	*	bc	6	1	55	46				
	Paris	1027·8	46	W	3	b	1030·3	+2	41	-4	SSW	3	-	o	*	1	54	39				
	Belfort	1028·3	43	W	7	c	1034·6	*	38	-1	W	2	*	o	*	2	44	37				
	Lyons	1036·2	42	-	0	r	1035·9	*	37	+2	-	0	*	bc	*	1	44	34				
	Nice	1026·4	46	-	0	c	1028·4	+3	42	+2	-	0	*	bc	2	-	52	40				
	Perpignan ...	1031·1	57	W	3	o	1032·2	+1	48	+12	WNW	1	W	c	*	-	61	36				
	Sanguinaire ...	*	55	W	3	o	*	*	53	-	E	4	*	o	4	-	61	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1034·6	55	NNE	3	f	1033·1	0	48	-7	SW	1	-	f	5	3	55	48				
	Madrid (8 a.m.)	1034·7	48	-	0	bc	1037·2	+2	39	+5	NNE	1	-	b	*	-	50	34				
	Lisbon (9 a.m.)																					
	Gibraltar	1032·8	59	E	4	bc	1031·8	*	56	+6	SE	3	*	b	3	1	58	49				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1030·1	+1	54	-1	NW	2	-	b	1	-	59	52				
	Azores (Horta, 8 a.m.)	1031·1	*	SSW	7	o							*									
	Madeira (Funchal)	1030·6	64	NE	3	c	1029·2	0	57	-2	E	3	-	bc	3	-	64	57				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 20th & 21st

Squalls W 8 during forenoon
S.S.W. 8 at 1 a.m.
W.S.W 8 at 7 a.m.

Castlebay: 20th Jan.

W. 8 7 a.m. to 5 p.m.

Eskdalemuir: 21st Jan.

S.S.W 8 at 2 a.m.
Gust S.S.W. 27 m.p.s.

Malin Head: 20th & 21st Jan.

W. 8 at 7h
W. 10 at 1 p.m.
W. 8 at 6 p.m.
S.W 9 at 1 a.m.
S.S.W. 8 at 7 a.m.

Blacksod Point: 20th & 21st

W. 8 9 a.m. to 4 p.m.
S.S.W. 10 at 5 p.m.
S.S.W. 8. 7 p.m. to 5 a.m.

Holyhead: 20th Jan.

W. 8 at 1 p.m.

Scilly: 20th Jan.

W. 8 9 to 10 a.m.
Gust 86 m.p.h.

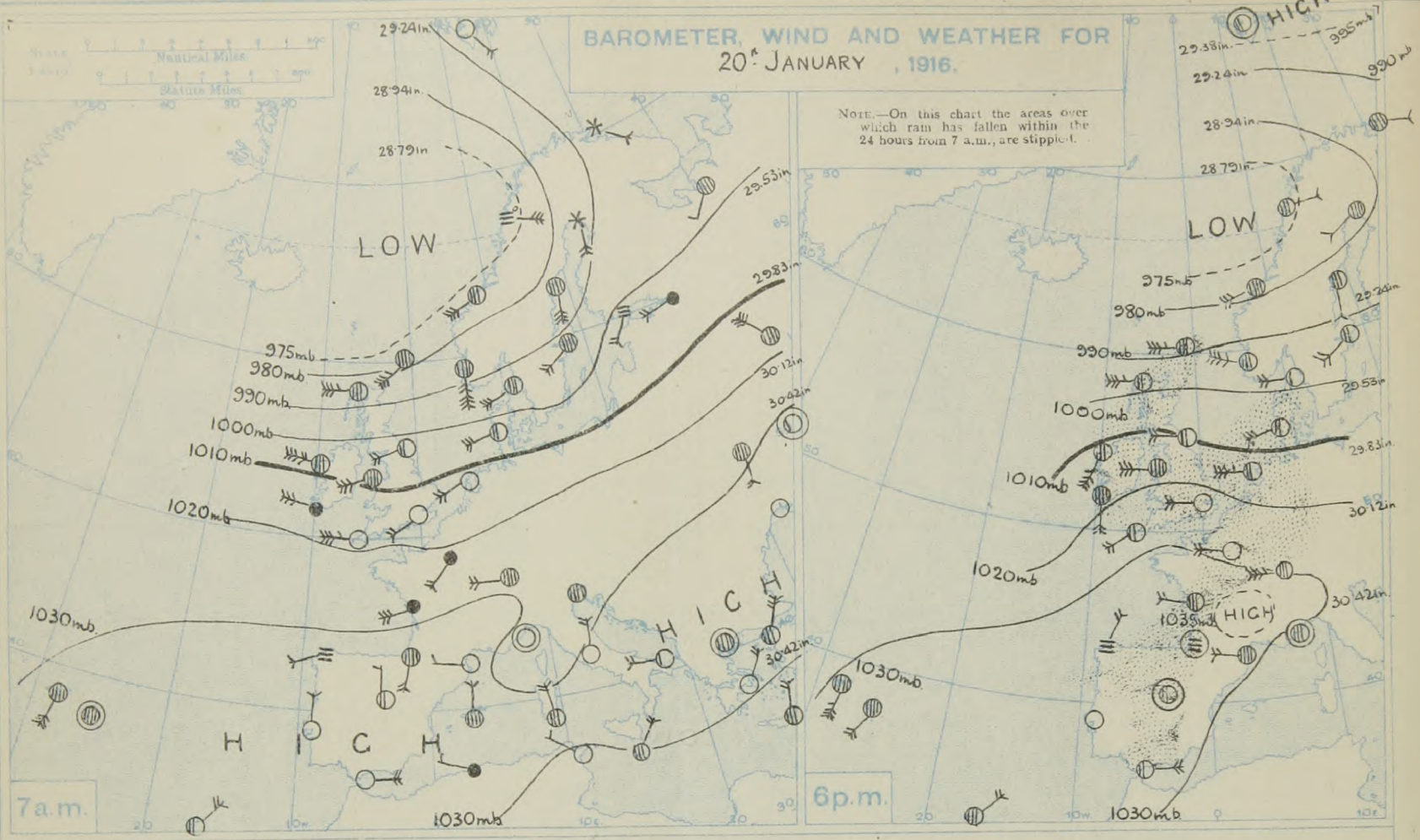
Aberdeen: 21st Jan.

Gust S.S.W. 17 m/s at 2 a.m.

Kew: 20th Jan.

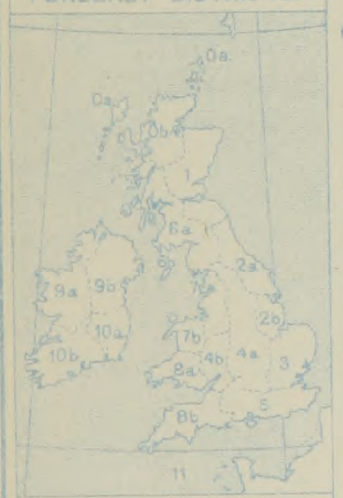
Gusts W.S.W 8 at 11h & 1 p.m.

* Information for these stations 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.

0 a, b; 1	Wind between South and West, strong or fresh generally, a gale in places; rainy or showery, squally, mild.
2 a, b; 3; 4 a, b	South-Westerly and Westerly winds, strong to moderate; rainy or showery, squally; mild.
5	South-Westerly to Westerly winds, fresh or strong, a gale in places; rainy or showery, squally; mild.
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	South-Westerly and Westerly winds strong, a gale in places, rainy or showery, squally; sea rough.

FURTHER OUTLOOK.

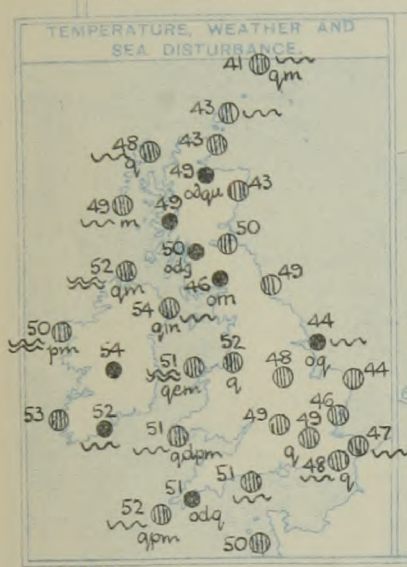
R. G. K. LEMPFERT, Superintendant, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 21ST JANUARY, 1916.

GENERAL INFERENCE.

Further depressions are likely to arrive from the Westward and prolong the mild, unstable weather conditions.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough High

Scale of Tints for JANUARY.

Normal Temperature of the Sea.

Below 40° 40°-50° 50°-60° Above 60°

Scale 1:12·10⁷
Nautical Miles
Statute Miles

HIGH 995mb 29·38in. 29·24in. 29·09in. 28·94in. 32° 25 19 20° 32° 36 29·38in. 29·53in. 29·68in. 29·83in. 29·97in. 30·12in. 30·27in. 30·42in. 30·56in. 40° 50° 37 39 27 36 34 41 48 43 52 50 51 44 45 49 46 38 42 53 56 LOW 980mb LOW 985mb 990mb 995mb 1000mb 1005mb 1010mb 1015mb 1020mb 1025mb 1030mb 1035mb Barometer Rise ceased. Barometer rising HIGH rising Barometer HIGH 1035mb 30·56in. LOW 1030mb H. 1030mb

Issue No. 19,783

DAILY WEATHER REPORT.

Friday, 21st January, 1916.

REPORTS FOR YESTERDAY.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda ...	996·3	9	SW	2	b	987·0	-7	25	+11	S	4	-	s	*	1	27	3
Hernosand ...	1000·0	7	E	2	b	982·4	-4	34	+27	S	6	-	o	*	-	34	-8
Stockholm ...	1006·7	36	SW	4	o	993·1	-6	37	+3	SW	4	-	o	*	2	37	34
Wisby	1010·4	36	WSW	2	o	999·5	-5	37	+1	SW	8	-	o	6	9	41	34
Karlstad ...	1005·5	34	-	0	f	970·9	0	37	+3	WSW	4	-	b	*	1	37	30
Lisbon	1030·7	50	NNE	4	r	1032·9	+2	48	-4	N	2	-	b	5	3	54	48
Rome	1030·6	46	-	0	b	1031·7	0	37	-8	N	3	*	b	*	-	*	*

20th January, 1916

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	18	47	38	p	c.o	1·1
	Banff	2	41	36	r.bc.b	b.bcd	5·1
	St. Andrews				*	*	
Eng. N.E.	Harrogate	6	?	36	o.c.bc	bc.cbc	2·4
	Skegness	6	44	39	b.bcr	r.o.bc	2·3
Eng. N.W.	Morecambe	-	45	42	bc	bc	3·0
	Blackpool						
	Southport	1	46	42	oq.c	c.o	3·0
Midlands.	Buxton	6	46	36	bcr	bc	0·4
	Leamington Spa	1	45	40	c.bcp	bc.c	3·6
	Malvern	1	44	35	r.c	c.bc	1·0
	Ross-on-Wye	2	52	40	tbr.q	bc	3·8
Wales	Llandudno	12	48	42	cq	bcq	3·2
	Rhyl	4	45	41	r.p.	bc	4·2
	Colwyn Bay	5	51	41	bc	bc	3·5
	Aberystwyth	3	47	42	r.oc	bc.o	2·7
	Tenby	5	?	31	bc	c.o	3·8

	STATIONS.	Rainfall	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m.
		mm §	°F.	°F.			Hr.
England, E.	Lowestoft	2	51	41	bc.cop	c.bc	3·0
	Felixstowe	2	46	42	bm.o	o.bc	3·2
	Walton-on-Naze	3	46	41	b3bcr	b	3·4
	Southend-on-Sea	2	47	42	bc.cop	bc.b	4·2
England, S.E.	Margate	0·3	50	43	bc.	bc.bp	3·5
	Ramsgate	2	48	40	bc.o	r.bc	4·6
	Hastings	5	50	42	o.boc	b	5·0
	Eastbourne	8	49	44	bcbhp	bc.b	4·0
	Seaford	0·2	50	44	bcr	bc	3·5
	Brighton						
	Worthing	3	49	43	bc.b	bc.b	4·0
	Littlehampton	3	48	42	o.bc	b.bc	4·0
	Bognor	4	50	43	bcrbc	p.b	4·4
	Southsea	1	49	45	bc	bc	4·0
	Bournemouth	4	49	43	cb	bc.o	3·5
England, S.W.	Weymouth	2	50	46	c.bcp	bcq	3·2
	Torquay	1	53	43	o	c.bc.b	3·7
	Paignton	2	51	43	bc	bc	4·0
	Penzance	3	52	46	c.bc	bc	2·0
	Newquay	*	49	41	ch.bcb	bc	2·0
	Ilfracombe	5	55	45	bc	bc.c	2·7
	Weston-super-Mare ...	5	48	40	tbh.b	b.bc.c	3·0

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.) ...	64	98	3·6	51	41	35	3	oq	oq	op.c
City (Bunhill Row)	*	*	2·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	89	3·1	51	48	35	3	o.b	b	d.u.
Camden Sq. (Brit. Rainfall)	65	91	3·7	51	42	35	3	bct	b.c	*
Hampstead (Reservoir) ...	*	90	3·5	49	39	32	4	bcp.o	o	op.o
Richmond Park ...	*	*	3·3							
Kew. (See front page.)	*	*	3·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	63	89	3·1							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
325 Joules	10·6 Milliwatts	27 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.	*	53	40	36	o.bc	bcoqr	bc.c	*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	54	43	35	oq	o.c.	bcb	*

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

21st & 22nd January, 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7. 32 7. 31	12. 14 12. 15	4. 16 4. 18
Greenwich	7. 55 7. 54	12. 11 12. 12	4. 27 4. 29
Wick	8. 42 8. 40	12. 23 12. 24	4. 5 4. 7
Valencia	8. 38 8. 37	12. 52 12. 53	5. 6 5. 8

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or higher at many places in the West and South. Local thunderstorms occurred in England and Wales and also at Deerness. Rain fell generally, the amount being moderate or slight as a rule, but 26 millimetres 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. 22

Saturday, 22nd January

	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.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	990.9	41	WSW	7	bcq	994.6	0	42	+1	S	3	.	o	3	4	46	37	cqpt	dcqp	c.o	*
	Deerness (Orkney)	994.6	42	SW	5	b	991.9	*	41	-2	SSW	6	SW	bc	5	5	48	34	c.bcp	bcb	bbcpsh	0.8
	Stornoway ...	996.1	42	W	6	cq	996.2	+10	38	-10	WSW	7	-	bq	5	9	48	38	cpq	dcq	obpq	1.7
	Castlebay (Barra Isd.)	998.7	47	SW	5	om	1003.5	+9	41	-8	WSW	6	SW	b	6	2	49	38	o.om	o.om	o.bopb	0.5
	Glasgow ...	1004.4	45	SW	3	o	1006.9	+6	42	-8	WSW	6	W	bc	*	4	51	40	omp	omq	opbcq	0.0
	Eskdalemuir ...	1006.6	44	SW	4	o	1010.5	+6	40	-6	WSW	5	.	bc	*	18	50	39	omuqo	ocm.od	oc.o	0.0
	Malin Head ...	1001.8	46	WSW	8	cmq	1006.9	+12	43	-9	W	7	W	bcqp	7	1	50	39	cmq	cmq	bcqp	0.0
	Blacksod Point	1005.9	45	WSW	6	omp	1012.2	+7	43	-7	SW	8	SW	bcpq	7	5	50	39	omp	omr	bcqp	*
	Valencia ...	1011.8	50	SW	5	o	1020.9	+6	46	-7	SW	6	SW	bc	*	2	54	45	omdp	omp.c	d.ocpbc	0.0
	Roche's Point	1013.8	52	SW	5	r	1021.6	*	44	-8	W	3	-	b	4	1	53	43	dm	dm	o.bc.b	*
	Birr Castle ...	1008.9	50	W	2	r	1018.3	*	40	-14	SW	2	-	c	*	5	55	39	oc	oc	oc.cp	0.0
	Donaghadee ...	1006.0	48	SW	4	ogmp	1010.4	+7	41	-13	SW	6	-	bmq	4	2	55	40	ogm	ogm	bomqp	*
	Liverpool (Bidston)	1011.0	53	SW	6	bc	1015.7	+4	47	-5	WSW	6	W	bcq	6	1	55	46	o.c	bcq	cpq	1.1
	Holyhead ..	1010.3	51	SW	7	ocqm	1017.0	+6	47	-4	WSW	6	W	b	5	0.1	52	46	ogm	o.opm	opbc.b	0.0
	Pembroke (St. Ann's)	1016.2	52	WSW	6	ogp	1020.9	+3	49	-2	W	5	W	bcq	6	2	50	45	ogm	ogm	ogmd	0.0
	Scilly (St. Mary's)	1020.5	52	SW	6	o	1023.3	+5	50	-2	W	5	W	c	6	-	53	45	c.bcm	cq.om	ome	0.9
	Falmouth ...	1021.3	52	SW	6	c	1024.2	+3	51	0	WSW	3	-	o	*	1	54	50	dq.cq	cq	cq.oq	0.8
	Jersey (St. Aubin)	1026.6	52	SW	3	oq	1027.6	*	51	+1	SSW	5	-	o	4	0.4	55	50	o.c.o	oq	ogpo	0.3
	Portland Bill ...	1023.1	51	WSW	5	o	1022.5	0	49	-2	WSW	5	-	od	5	1	52	47	omd	om	cod	*
	Dungeness ...	1021.9	49	SW	5	obmr	1022.7	-1	50	+2	SW	6	SW	o	6	2	50	46	omr	omr.o	opbc.o	*
	Dover	1021.5	49	SSW	5	c	1023.9	0	50	+3	SW	6	SW	o	6	1	50	45	oe.c	ce.od	cpd.o	0.0
	Wick	996.7	39	WSW	3	bc	994.8	-5	39	-4	SW	3	SW	bc	4	2	49	37	o.bcm	bcqp	ombcp	*
	Nairn	998.1	39	W	1	bc	998.6	*	40	-9	W	6	-	cq	4	4	49	38	p.c	qr.bc	crq	1.5
	Aberdeen ...	1000.9	45	WSW	4	b	1000.8	-1	41	-2	WSW	5	-	b	2	-	54	40	c.bc.b	by.b	bcq	4.1
	Leith	1003.8	47	SW	2	o	1006.0	+3	42	-8	W	3	W	bc	3	4	55	40	c.ocq	spq.o	g.o.cob	*
	Tynemouth ...	1005.0	52	W	3	b	1009.5	0	47	-2	NW	5	-	bqp	3	1	58	44	bcmq	bm	bcqp	*
	Spurn Head ...	1010.8	53	W	5	bcq	1013.6	+1	50	+6	W	5	W	bc	5	-	54	44	o.bcq	bcq	bcq	1.0
	Yarmouth ...	1016.3	54	W	4	bc	1018.8	0	52	+8	WSW	5	-	cq	4	-	55	44	cm	bc	om.bc	0.0
	Clacton-on-Sea	1018.9	50	SW	5	o	1020.6	0	50	+4	SW	3	-	o	3	-	51	46	oq	oq	o.c.bc.o	0.0
	Nottingham ...	1013.3	54	SW	6	c	1016.5	*	50	+2	W	4	W	b	*	-	57	48	o.c	c	c.o	1.3
	Benson (Oxon.) ...	1019.1	53	SSW	5	o	1021.0	+2	50	+1	WSW	5	-	r	*	-	54	49	o	oge	cpd	*
	Sth Farnborough	1019.9	52	SW	6	b	1021.5	+1	52	+4	SW	5	-	o	*	0.1	54	48	o	ob	bc.o	0.0
	London (Kew Obsy.)	1022.0	53	SW	4	o	1021.3	0	53	+4	SW	5	-	od	*	0.2	55	46	oq.o	oc.o	o.od	0.1
NORTHERN EUROPE.	Spitsbergen ...	995.0	-4	-	0	c	992.4	0	-13	-4	-	0	*	b	*	*	-4	79				
	Vardö	993.0	23	ESE	4	o	987.4	-5	25	0	ESE	5	-	o	2	*	27	12				
	Bodö	980.8	36	E	2	b	971.1	-4	37	0	E	4	-	c	2	2	37	32				
	Christiansund	982.0	41	SW	6	c	985.1	+3	39	0	SW	10	-	s	6	3	41	36				
	Skudesnaes ..	997.0	43	SW	3	c	999.1	+3	39	-2	WSW	4	-	b	6	4	43	36				
	Færder (X'tania Fjord)	995.7	39	SW	6	m	998.3	+2	39	+2	SW	7	-	m	4	-	39	37				
	The Scaw (Skagen)	998.1	45	W	6	o	1004.4	+2	41	+2	W	5	-	b	5	3	45	37				
	Blaavands Huk	1007.9	43	W	4	o	1010.4	+3	43	+2	WSW	5	-	o	5	1	45	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlsfad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c	The Helder ...	1016.3	47	SSW	5	o	1018.3	0	48	+3	SW	6	-	o	4	1	48	43				
	C. Gris Nez ...	1021.3	49	SW	6	o	1024.0	0	49	+2	SW	6	*	o	5	1	50	47				
	La Hève	1025.5	49	WSW	5	o	1026.1	*	46	+1	SW	5	*	c	4	5	50	43				
	Brest (St. Mathieu)	1028.0	52	SW	4	o	1028.7	+1	52	+2	WSW	4	*	o	5	-	52	50				
	Rochefort (Ile d'Aix)	1033.2	50	SSW	3	bc	1033.5	0	45	-1	S	3	*	o	*	-	54	45				
	Biarritz	1032.6	53	NE	2	b	1032.9	0	46	-2	ESE	1	*	m	5	-	59	43				
	Paris	1029.7	50	SW	3	o	1030.6	0	48	+7	SSW	3	-	o	*	-	50	41				
	Belfort	1033.9	42	W	3	o	1034.3	*	38	0	W	3	*	b	*	-	48	38				
	Lyons	1035.1	41	W	1	b	1036.4	*	31	-6	-	0	*	b	*	-	47	29				
	Nice	1030.3	47	-	0	b	1032.3	+1	44	+2	SW	1	*	b	2	-	55	42				
	Perpignan ...	1031.1	50	W	1	b	1032.8	+3	36	-12	W	1	-	b	*	-	61	34				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1033.5	55	-	0	f	1033.6	0	52	+4	S	1	-	f	5	?	57	48				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)																					
	Gibraltar	1029.8	57	E	5	c	1027.7	*	57	+1	E	6	*	c	4	-	59	54				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1027.5	+1	54	0	NW	3	-	bc	2	-	59	54				
	Azores (Horta, 8 a.m.)	1027.7	*	-	0	c							*									
	Madeira (Funchal)	1027.1	63	E	3	bc	1025.6	-2	57	0	E	3	-	c	3	-	63	57				

GALES.

Duration and Extreme Force in British Islands

Stornoway: 22nd Jan.

Squalls W.S.W. 8 early morning.

Glasgow: 22nd Jan.

Gusts W.S.W. 8 4 a.m. to 6 a.m.

Eskdalemuir: 21st Jan.

S.W. 8 at 11 a.m.

Malin Head: 21st Jan.

W.S.W. 8 7 a.m. to 8 p.m.
W.S.W. 9 at 10 a.m.

Blacksod Point: 22nd Jan.

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

Aberdeen: 21st & 22nd Jan.

Gust. WSW 18 m.p.s. after 1 p.m.
Gust. SW 21 m.p.s. at 6.30 a.m.

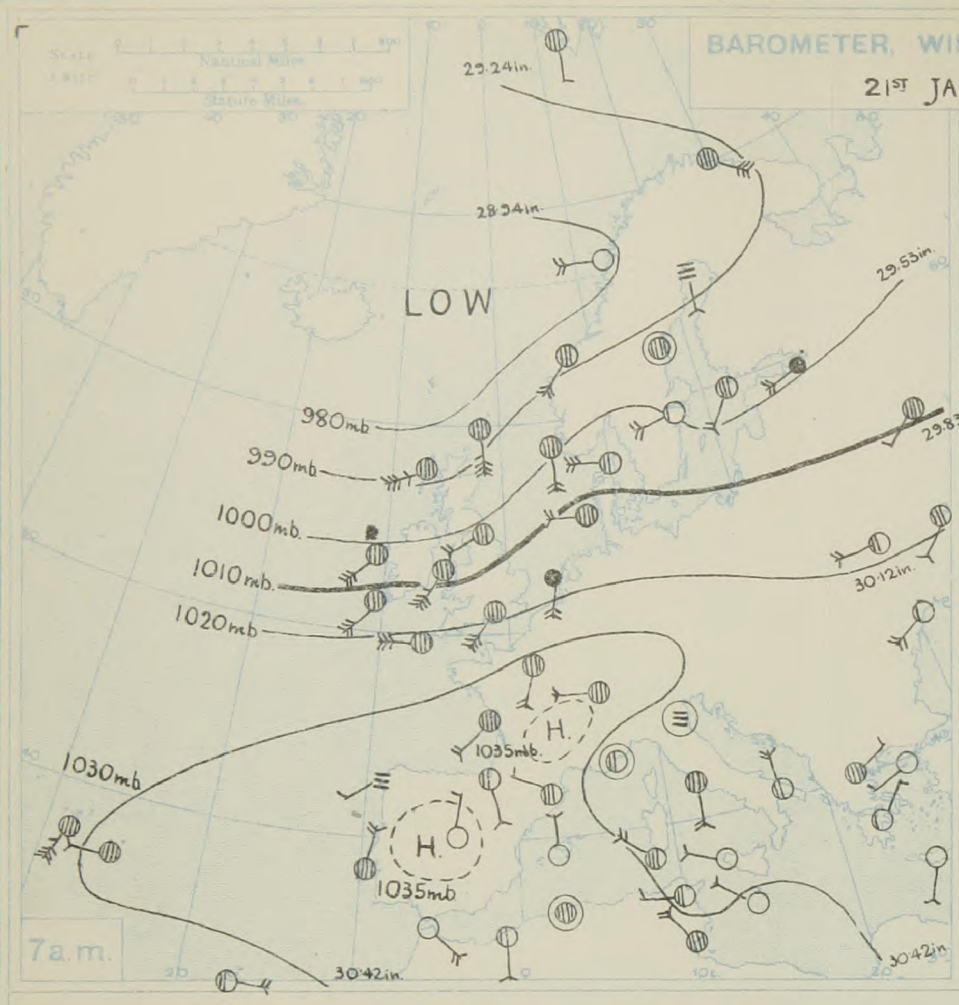
South Farnborough: 22nd January. 7.55 a.m.

Pilot Balloon Ascent.

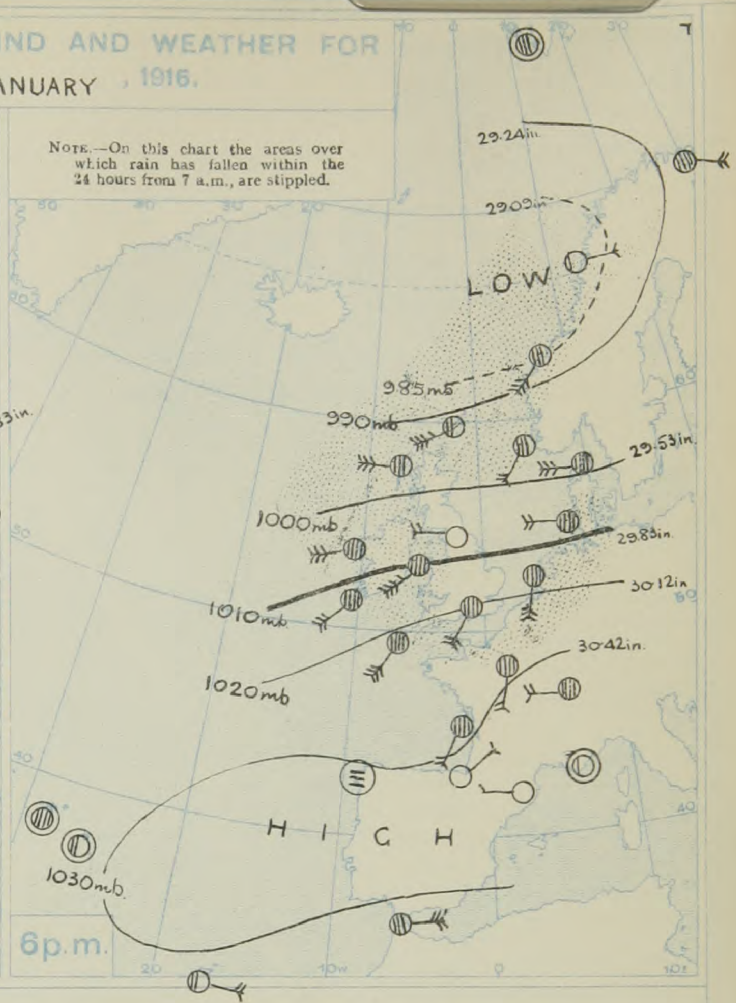
500 metres. W.S.W. 45 miles per hour.

* 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 21st JANUARY, 1916.

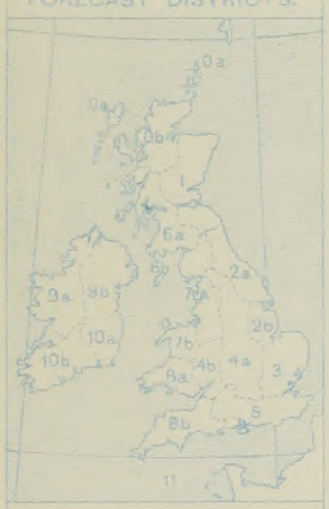


NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



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.

0 (a, b), 1, 2 (a, b), 3, 4 (a, b), 5

Wind from some Westerly point, moderate or fresh, strong at times; squally, showery, fair intervals; temperature above the normal.

6 (a, b), 7 (a, b), 8 (a, b), 9 (a, b), 10 (a, b)

Wind between West and South-West or South, moderate or fresh, strong at times; changeable, squally, showery, fair intervals; temperature above the normal.

Western Channel and Bay 11

Westerly and South-Westerly winds, moderate to strong; sea rough; some squalls and showers.

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

FURTHER OUTLOOK.

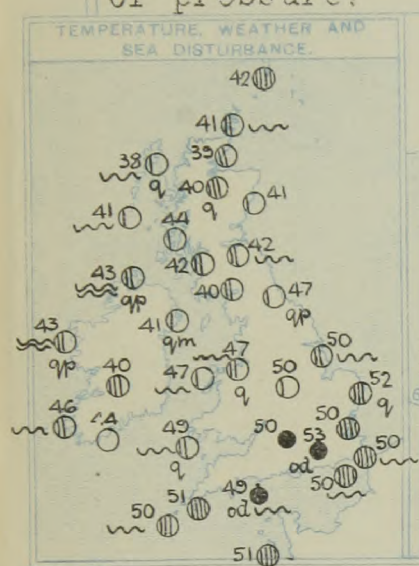
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 22nd JANUARY, 1916.

GENERAL INFERENCE.

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



EXPLANATION.

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

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

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

WEATHER.—Shown by the following symbols:—
clear sky. sky ½ 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 JANUARY.

HIGH

LOW

Barometer falling

Barometer rising

generally HIGH

990mb. 985mb. 975mb. 980mb. 995mb. 1000mb. 1005mb. 1010mb. 1015mb. 1020mb. 1025mb. 1030mb. 1035mb.

29·24in. 29·09in. 28·94in. 28·79in. 29·09in. 29·24in. 29·38in. 29·53in. 29·68in. 29·83in. 29·97in. 30·12in. 30·27in. 30·42in. 30·56in.

Issue No. 19,784

DAILY WEATHER REPORT.

Saturday, 22nd January, 1916.

REPORTS FOR YESTERDAY.

21st January 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	997·3	36	SSW	4	r	999·3	+2	36	.	WSW	3	-	r	*	1	36	34
Rome	1029·7	50	S	3	0	1028·6	0	48	+11	S	3	*	0	*	3	*	*
Horta	1031·1	*	SSW	7	0	1027·1	0	60	0	SSW	7	*	0	4	-	61	59

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	7	49	38	p	bc.o	0·0
Banff	—	51	36	bc.b	b.bc	3·5
St. Andrews	1	53	35	*	*	0·9
Eng. N.E.						
Harrogate	2	55	39	o.c.bc	bc.c.bc	1·6
Skegness	5	55	38	og.c	o.bc	0·5
Eng. N.W.						
Morecambe						
Blackpool						
Southport	3	55	42	o.c	c.o	0·3
Midlands.						
Buxton						
Leamington Spa	1	55	41	bc	bc	3·7
Malvern	1	55	41	c	c	0·0
Ross-on-Wye	1	53	44	cuq	oq	0·0
Wales.						
Llandudno	2	56	45	cq	bq.r	3·8
Rhyl	1	57	41			6·3
Colwyn Bay	3	58	43	bc	bcp	3·0
Aberystwyth	1	52	45	r.o.c	o.br	0·0
Tenby	7	52	45	r	o	0·0

STATIONS.	Rainfall. mm §.	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.						
Lowestoft	3	55	41	op.c	c.o	0·1
Felixstowe	2	52	40	om	om.bc	0·1
Walton-on-Naze	2	52	40	ocd.c	bc	0·0
Southend-on-Sea	1	52	40	o.bc.c	c.o	0·2
England, S.E.						
Margate	1	53	39	o	o	0·1
Ramsgate	2	51	?	o.c	c	0·0
Hastings	2	50	43	od	od.o	0·0
Eastbourne	1	51	43	ogr	og	0·0
Seaford	1	50	44	r.o	o	0·0
Brighton						
Worthing	3	50	42	o	o	0·0
Littlehampton	2	50	42	o	o	0·0
Bognor	2	51	43	od	o	0·0
Southsea	3	52	40	o	o	0·0
Bournemouth	3	52	42	o	o	0·0
England, S.W.						
Weymouth...	1	52	45	me.o.c	c.bc.c	0·1
Torquay	2	54	43	o	o	0·0
Paignton						
Penzance	2	55	47	o.c	c.bc.o	1·0
Newquay	*	?	46	o	o	0·0
Ilfracombe	3	55	50	d	d.o.	0·0
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.) ...	80	88	0·2	55	50	47	1	o	og	o.od
City (Bunhill Row)	*	*	0·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	83	91	0·1	55	51	45	1	od	oe.d	ue.
Camden Sq. (Brit. Rainfall)	82	82	0·2	56	50	46	trace	o	c.o	*
Hampstead (Reservoir) ...	*	87	0·0	53	49	41	0·3	o	o	odp.o
Richmond Park ...	*	*	0·0							
Kew. (See front page.)	*	*	0·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	80	82	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
99 Joules	32 Milliwatts.	10 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.								*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "								
Oxford to 8 p.m.	*	54	41	49	ot.o	od.co	od.o	*
Teignmouth to 9 "	-	54	48	42	bccp	o	o	0·0
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	3	55	42	33	b.o	o.og	og.c	*

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

22nd & 23rd Jan. 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.51 / 7.50	12.5 / 12.5	4.18 / 4.20
Greenwich	7.54 / 7.53	12.12 / 12.12	4.29 / 4.31
Wick	8.40 / 8.39	12.24 / 12.24	4.7 / 4.9
Valencia	8.37 / 8.36	12.53 / 12.53	5.8 / 5.10

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° or above very generally, and exceeded 55° in several localities. Rain fell generally, but the quantity was slight. The day was dull except in some parts of Scotland and Wales and at Leamington.

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

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§ 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. 23. {Sunday, 23rd January,

	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 ...	999.5	41	W	6	oq	1015.4	0	44	+2	SSW	4	SW	c	4	4	44	35	oqp	oqhp	cq	*
	Deerness (Orkney)	1005.7	38	W	7	bcptl	1015.9	*	41	0	SSW	5	–	o	5	3	42	34	bc.cph	cphqr	bcp.c.o	0.8
	Stornoway ...	1012.5	38	W	7	bcqhp	1011.4	-7	45	+7	SW	7	–	cq	6	4	45	35	bc.cqhp	bcqhp	bccqp	0.3
	Castlebay (Barra Isd.)	1016.7	44	SW	7	bcq	1015.4	-7	46	+5	S	6	–	o	6	1	47	35	bcqhp	hp.bcq	bcq.c.o	1.1
	Glasgow ...	1020.6	38	W	4	c	1023.8	-3	40	-2	SSW	1	SW	b	*	5	42	35	cqhrp	tlpth	bc.b.bc	1.2
	Eskdalemuir ...	1023.4	38	WSW	6	or	1025.8	-4	41	+1	S	5	–	o	*	2	41	35	bcp	cqp	oqp.b.o	1.5
	Malin Head ...	1020.0	41	WSW	8	bcq	1016.0	-9	42	-1	S	6	SW	cq	5	5	45	36	cqph	cqhp	cq	2.8
	Blacksod Point	1024.0	45	SSW	5	cp	1013.2	-11	46	+3	S	7	S	omc	6	1	47	40	bcqhp	bqp	bcm	*
	Valencia ...	1029.1	46	S	3	bc	1019.8	-8	49	+3	S	5	–	od	*	2	50	44	bc	bc	bc.or.o	4.0
	Roche's Point	1030.8	45	SW	1	b	1024.5	*	49	+5	SSW	4	–	r	4	1	49	43	b.bc.b	b.bc.b	b.od.o	*
	Birr Castle ...	1028.7	40	SW	2	bc	1022.5	*	45	+5	SE	3	–	o	*	–	47	36	c	bc	bc.o	6.0
	Donaghadee ...	1022.8	42	W	6	bcmq	1022.9	-6	43	+2	SW	4	–	cgm	4	Trace	45	39	bcmq	bcmq	omq.cm	*
	Liverpool (Bidston)	1028.6	45	WSW	5	b	1029.4	-2	39	-8	SE	2	SE	b	3	–	47	36	bq	b	bc	6.9
	Holyhead ...	1028.7	46	W	5	b	1027.0	-5	44	-3	S	6	SW	ogq	6	–	48	44	b.bc.c	c.o.bc.b	b.bc.c.oc	5.5
	Pembroke (St. Ann's)	1032.1	47	WSW	4	b	1029.1	-3	47	-2	SSW	4	SW	cq	4	0.4	49	45	bcq	bc	b.bcq	5.2
	Scilly (St Mary's)	1032.4	46	WNW	1	bcm	1029.3	-3	49	-1	SSE	4	S	cm	5	0.2	51	44	cm.b	cm	bm.b.od	5.9
	Falmouth ...	1033.2	43	WNW	1	bq	1030.6	-4	48	-3	SSE	4	–	r	*	–	52	37	o.bc.b	b	b.o	6.6
	Jersey (St. Aubin)	1033.7	48	WNW	2	bm	1034.1	*	45	-6	S	2	–	b	2	1	53	38	omd	d.c.bm	bmw.o	0.1
	Portland Bill ...	1032.7	48	WNW	2	b	1033.8	-1	48	-1	SE	3	NW	b	4	–	52	41	o.c	bc	b	*
	Dungeness ...	1030.7	45	WSW	3	b	1035.5	0	43	-7	SSE	2	S	b	2	–	50	34	o.bc	bc	bc.bc.b	*
	Dover ...	1032.4	44	W	1	b	1036.0	0	40	-10	–	0	–	b	3	1	52	33	o.c	c.bc.b	bc	0.2
	Wick ...	1009.8	34	WNW	4	s	1017.7	-2	42	+3	SSW	4	–	b	3	2	42	34	cqprs	bcq.os	cqpl.f	*
	Nairn ...	1012.9	39	W	4	bcq	1018.1	*	41	+1	WSW	1	–	oq	2	3	41	35	prsq	gqp	op.c	2.1
	Aberdeen ...	1014.9	37	SW	5	b	1022.0	-2	39	-2	SSW	4	–	o	2	–	44	35	bq	bq	b.o	5.9
	Leith ...	1019.0	39	W	3	c	1024.3	-2	41	-1	W	1	W	c	3	6	43	37	c.oq	rsq.o	cp.o.c	*
	Tynemouth ...	1021.7	43	W	5	bqmp	1028.0	-2	43	-4	SW	3	–	cm	3	1	46	40	bcmq	bmqp	cm	*
	Spurn Head ...	1025.7	46	NW	6	bc	1033.2	0	39	-11	WSW	4	–	bc	4	–	50	36	bcq	bcq	bq	0.0
	Yarmouth ...	1029.4	45	W	2	b	1034.8	0	35	-17	SW	1	–	b	2	–	54	34	cq	bc.b	bc.bm.b	4.3
	Clacton-on-Sea	1030.4	47	WNW	3	bc	1035.4	-1	41	-9	SE	2	SW	bc	1	2	53	35	ogr.bc	bc	bc.bxc	3.5
	Nottingham ...	1029.0	42	WSW	2	b	1032.9	*	33	-7	W	2	W	b	*	0.1	57	32	qp.b	b	b	6.2
	Benson (Oxon.) ...	1031.9	40	WSW	3	b	1034.8	-2	29	-21	–	0	–	bc	*	–	51	28	o.b	b	b	*
	Sth Farnborough	1032.3	41	W	1	b	1034.6	-2	32	-20	SSE	2	–	bmx	*	1	53	26	o.bqr.bc	bc.b	bmx	4.2
	London (Kew Obsy.)	1032.2	46	WSW	2	b	1035.2	-2	29	-24	–	0	–	fx	*	0.3	53	28	ol.opo.cdpb	bc.b	b.bmw.fc	3.5
NORTHERN EUROPE.	Spitsbergen ...	994.1	-17	–	0	bc	995.8	-1	-2	+11	ESE	1	*	o	*	*	-2	-38				
	Vardö ...	981.3	28	SE	2	o	979.4	0	28	+3	NE	1	–	o	3	*	28	19				
	Bodö ...	975.5	36	SW	8	r	983.4	-5	39	+2	WSW	7	–	o	4	?	39	32				
	Christiansund	987.1	39	SW	4	o	1003.1	+6	39	0	W	6	–	o	6	5	41	34				
	Skudesnaes ..	1003.3	41	W	8	c	1019.4	+8	41	+2	?WNW	6	–	c	8	10	43	36				
	Færder (X'iania Fjord)	999.7	37	SW	8	b	1012.2	+11	39	0	NW	6	–	b	4	–	39	37				
	The Scaw (Skagen)	1006.0	41	W	8	b	1013.7	+4	41	0	NW	8	–	c	8	1	45	37				
	Blaavands Huk	1016.7	41	W	6	b	1027.4	+5	41	-2	WNW	7	–	bc	*	–	45	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby ...																					
	Karlstad ...														*							
	Petrograd (6 a.m. G.M.T.)	996.7	34	WSW	3	b	993.1	-3	34		SSW	2	–	S	*	2	30	32				
FRANCE, &c.	The Helder ...	1027.4	45	WSW	5	b	1035.7	+1	43	-5	WSW	2	–	b	3	Trace	48	43				
	C. Gris Nez ...	1031.5	47	SW	4	b	1035.3	-1	41	-8	SE	1	*	b	2	Trace	50	39				
	La Hève ...	1032.6	46	SW	4	bc	1035.0	*	39	-7	ESE	4	*	m	2	–	48	37				
	Brest (St. Mathieu)	1034.7	48	NE	1	c	1033.1	0	50	-2	ESE	3	*	o	5	–	54	46				
	Rochefort (Ile d'Aix)	1035.4	50	E	1	f	1032.7	+2	43	-2	NE	3	*	m	*	Trace	54	43				
	Biarritz ...	1033.1	51	NW	1	bc	1029.7	-2	39	-7	E	3	*	b	5	–	57	39				
	Paris ...	1034.0	52	SSW	2	o	1036.6	0	37	-11	NE	1	–	f	*	Trace	57	37				
	Belfort ...	1036.0	45	W	4	o	1038.0	*	38	0	E	4	*	bc	*	–	52	37				
	Lyons ...	1036.4	41	W	1	b	1036.6	*	34	+3	–	0	*	f	*	–	46	32				
	Nice ...	1031.5	48	–	0	o	1032.8	+1	43	-1	–	0	*	b	2	–	54	43				
	Perpignan ...	1026.6	43	–	0	b	1039.7	0	45	+9	SW	6	–	m	*	–	48	43				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031.8	55	NNE	5	f	1029.5	0	45	-7	S	1	–	b	7	–	55	43				
	Madrid (8 a.m.)	1029.6	55	–	0	b	1035.3	+2	35	-4	WSW	1	–	c	*	–	55	32				
	Lisbon (9 a.m.)	1027.4	57	NNE	3	b	1028.0	0	46	0	N	3	–	b	6	–	59	46				
	Gibraltar ...							*					*									
	Rome ...	1030.4	48	W	3	b	1030.9	0	39	0	–	0		b	*	–	*	*				
	Malta (8 a.m.) ...	*	*	*	*	*	1027.8	+2	55	+1	NNE	4	–	b	5	–	69	54				
	Azores (Horta, 8 a.m.)	1031.0	*	S	7	o	1022.4	+5	54		NNE	5	*	o	4	4	63	54				
	Madeira (Funchal)	1023.7	63	E	3	o	1024.8	0	55	-2	E	3	–	o	3	–	63	54				

GALES.

Duration and Extreme Force in British Islands.

Deerness
22nd 8 a.m.–1 p.m. SW 8

Stornoway
22nd During day Squalls SW 8.

Castlebay
22nd During afternoon Squalls SW 9

Malin
22nd 7 a.m.–6 p.m. WSW 8.

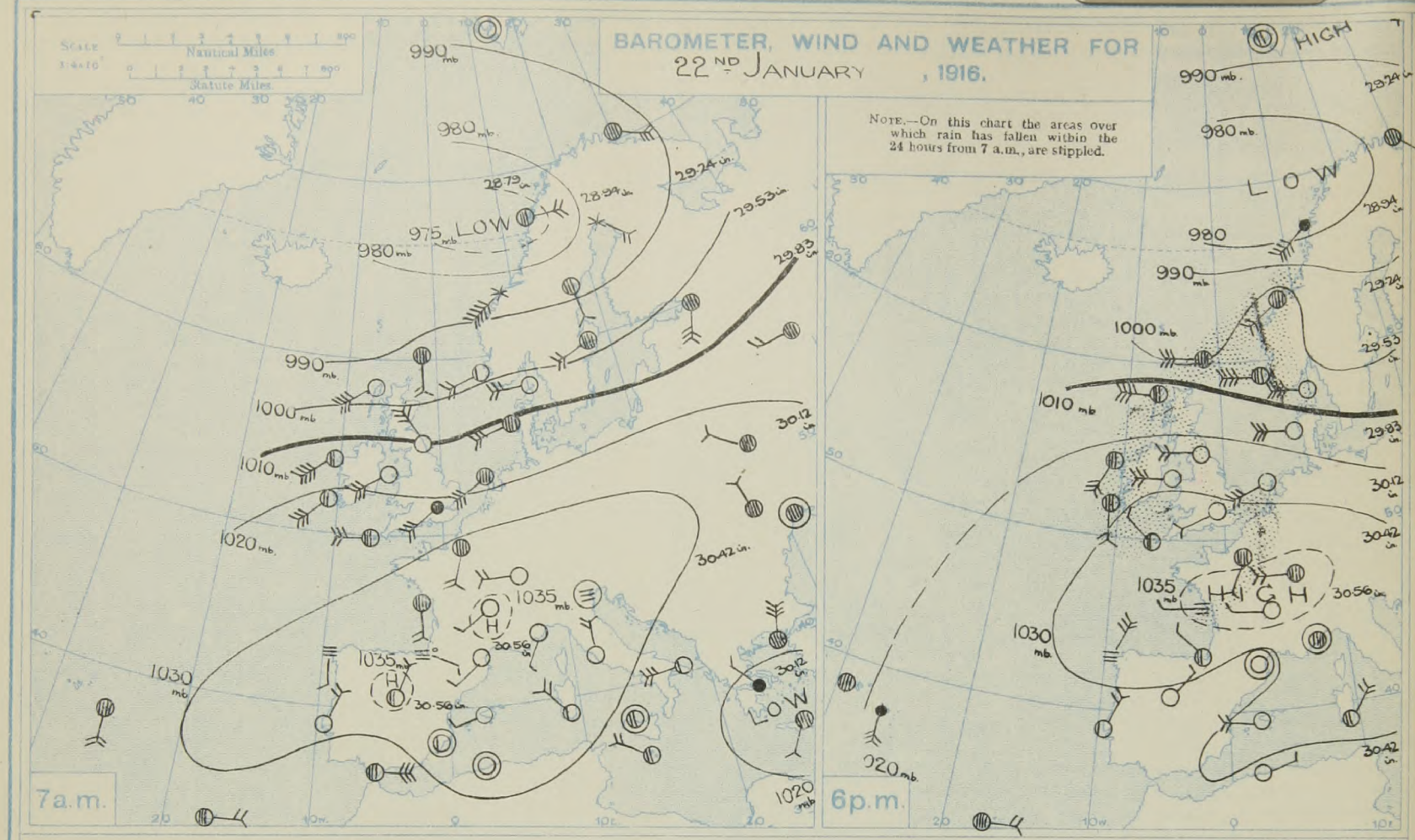
Blacksod Point
22nd 7 a.m.–10 a.m. SSW 8

Nairn
22nd 8 p.m.–10 p.m. W 8

Aberdeen
22nd During morning Gusts SW 19 mps
22nd 3 p.m. Gusts WSW 21 mps

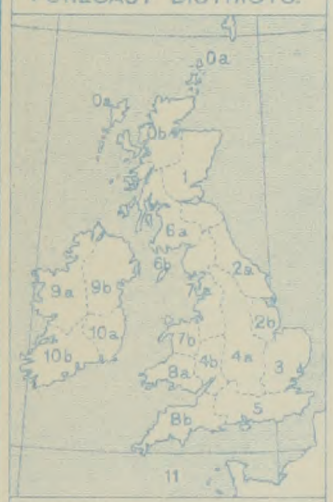
Spurn Head
22nd 1 p.m. Squalls NW 8.

* 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 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.

0 a, 0 b, 1, 2 a, 2 b, 3, 4 a, 4 b	Light Westerly breezes, backing Southerly and freshening; fair to dull, some rain and mist; mild.
5, 6 a, 6 b, 7 a, 7 b, 8 a, 8 b, 9 a, 9 b, 10 a, 10 b	South-Westerly and Southerly wind, freshening, squally, strong to gale in places, unsettled, some rain and mist ; mild.
Western Channel and Bay 11	Southerly and South-Westerly wind, freshening, squally, strong to a gale at times; sea rough; unsettled, some rain, mist or fog; mild.

FURTHER OUTLOOK.

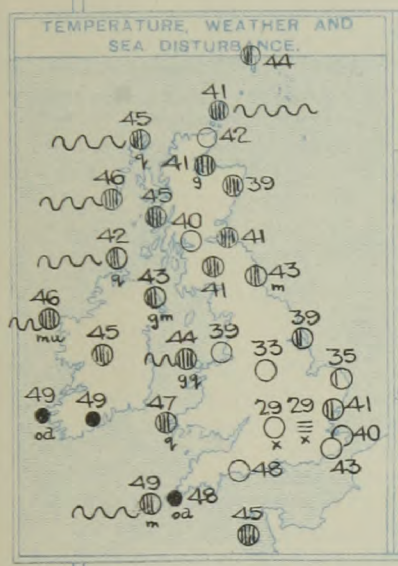
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 23RD JANUARY, 1916.

GENERAL INFERENCE.

A new depression from the Atlantic will maintain the unsettled conditions over the country generally.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough. High.

Scale 1 : 2×10⁷
Nautical Miles
Statute Miles

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

HIGH

LOW

Barometer falling decidedly

Barometer unsteady

Inches

Issue No. 19,785

DAILY WEATHER REPORT.

Sunday, 23rd January 1916.

REPORTS FOR YESTERDAY.

22nd January, 1916.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda ...	989·2	9	-	0	f	981·3	-5	27	+8	SE	3	.	s	*	3	27	7
Hernosand ...	991·4	28	-	0	o	988·2	+3	30	-6	S	2	-	c	*	3	37	28
Stockholm ...	1001·2	37	S	2	o	996·8	+2	41	+5	WSW	4	.	o	*	-	41	36
Visby	1007·4	36	SW	4	o	1003·1	0	39	+3	WSW	6	-	o	*	5	41	34
Karlstad ...	996·2	36	SW	3	r	998·4	?	36	+2	S	2	-	b	*	Trace	41	34
Madrid ...	1032·3	52	N	1	b	1035·1	+1	39	0	NNE	2	-	bc	*	.	52	36
Lisbon ...	1030·7	55	N	3	b	1030·1	0	46	.	NNE	3	.	b	6	-	57	46
Rome	1029·6	48	N	3	bc	1032·0	0	39	-9	N	3	.	b	*	.	*	*

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	41	fh	bc	1·3
	Banff	-	41	36	b	bps.bc	5·3
	St. Andrews				*	*	
Eng., N.E.	Harrogate	3	45	41	bcb	bc.b	4·9
	Skegness	0·1	51	41	bc.b	bc.b	6·0
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	-	49	45	c	c.b	6·5
Midlands.	Buxton	8	51	41	bc	bc	4·9
	Leamington Spa	0·4	51	42	c.bc	bc	4·8
	Malvern						
	Ross-on-Wye	0·3	52	41	b	b	6·2
Wales.	Llandudno	6	54	44	r.b	b	6·3
	Rhyl						
	Colwyn Bay						
	Aberystwyth	2	48	46	r.o.c	bc.c	5·3
	Tenby	2	50	46	b	b	5·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	1	53	41	op.bc	bc.b	4·1
	Walton-on-Naze	1	53	43	od.c.b	b	3·6
	Southend-on-Sea	-	51	48	op.c.bc	bc.b	2·1
England, S.E.	Margate	-	54	44	c	c.o	0·3
	Ramsgate	-	51	45	ov.c	bc	1·5
	Hastings	1	51	45	bc.od.o	c.b	0·3
	Eastbourne	0·3	52	48	oq	o.bc	0·0
	Seaford	0·3	50	44	r.o	c	0·5
	Brighton	0·2	52	48	o.c	c.bc.b	0·7
	Worthing	-	52	44	bc	bc.b	0·9
	Littlehampton	.	52	42	o	bc	1·8
	Bognor	0·3	54	46	o	bc.b	3·0
	Southsea						
	Bournemouth	-	54	44	c.bc	b	4·8
England, S.W.	Weymouth	0·2	53	46	bc	bc.b	3·9
	Torquay						
	Paignton	1	53	43	op	bc	4·9
	Penzance	0·3	53	45	bc	b	6·1
	Newquay	*	54	46	b	b	5·3
	Ilfracombe						
	Weston-super-Mare ...						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 0 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.) ...	62	89	2·4	52	29	25	-	o	c.bc	od.ox
City (Bunhill Row)	*	*	2·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	93	2·1	54	30	29	-	od.r.b	bm	bmsc
Camden Sq. (Brit. Rainfall)	64	100	3·5	53	30	25	-	o.c	bc.b	*
Hampstead (Reservoir) ...	*	92	3·9	52	34	19	-	.	--	bcm
Richmond Park ...	*	*	3·4							
Kew. (See front page.)	*	*	3·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	63	91	3·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
294 Joules	9·5 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.	4	47	41	38	pq.cb	bc	bc	*
Darwen to 9 p.m.	3	50	40	36	our	ou.b	bc	3·0
Manchester ,,	1	54	40	*	opr.o	o.cbc	bc.bbc	3·1
Birmingham ,,	-	52	40	45	*	c	c.b	5·6
Oxford to 8 p.m.	*	53	40	31	o.c	c.bc	bc.b	*
Teignmouth to 9 ,,	0·3	54	44	49	op.c	bc.b	b	4·3
Plymouth ,,	1	53	40	*	opq	c.b	b	5·2
S. Kensington (Museum Grounds to 6 p.m.)	1	54	47	46	c.b	oq.o	bc.bz	*

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

23rd & 24th Jan. 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.50 / 7.49	12.5 / 12.5	4.20 / 4.21
Greenwich	7.53 / 7.52	12.12 / 12.12	4.31 / 4.32
Wick	8.39 / 8.38	12.24 / 12.24	4.9 / 4.11
Valencia	8.36 / 8.35	12.53 / 12.53	5.10 / 5.11

NOTES ON YESTERDAY'S WEATHER.

Temperature continued above the normal over the country generally. A little rain fell in most places. Sunshine varied greatly, none at Eastbourne to 7 hours at Liverpool. A South-Westerly to Westerly gale was felt in the north-west and north-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. 24 { Monday 24th January

	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 ...	1001.9	44	S	6	omqg	996.1	+1	40	-4	WSW	5	W	cq	4	8	46	36	om	om	omrq	*
	Deerness (Orkney)	999.3	45	S	7	bcq	998.8	*	40	-1	SW	6	-	bc	4	4	47	38	o.c	c.bcq	bcp	0.0
	Stornoway ...	996.4	42	WSW	6	orq	1001.0	+3	39	-6	WSW	6	-	cpq	5	18	48	36	bc.oq	orq	or.opq	0.0
	Castlebay (Barra Isl.)	998.6	48	W	4	r	1005.9	+4	43	-3	WSW	6	S.W	bq	6	11	49	37	op	opr	b.obq	0.0
	Glasgow ...	1009.1	48	SSW	5	oqg	1011.1	+5	37	-3	W	4	-	bc	*	9	49	36	c.ompq	omd.pq	opq.bp	0.1
	Eskdalemuir ...	1012.7	44	SSW	8	or	1013.6	+6	34	-7	SW	4	-	b	*	16	45	34	o	od.orc	orq.bc	0.0
	Malin Head ...	999.8	48	SSW	8	omq	1009.5	+4	42	0	WNW	8	NW	omq	8	9	50	37	omq	omq	cqmr	0.0
	Blacksod Point	1008.3	42	WNW	6	omqr	1014.2	+4	43	-3	WSW	7	W	bc	6	12	49	38	omqr	omqr	bcp	*
	Valencia ...	1006.9	51	S	6	od	1021.9	+4	45	-4	SW	4	W	c	*	6	51	41	pd	o.od	n.ocpb	0.0
	Roche's Point	1014.0	50	S	6	r	1023.2	*	39	+0	W	2	-	b	4	2	50	39	odm	odm	d.o.b	*
	Birr Castle ...	1008.9	50	S	5	o	1019.5	*	35	+0	SW	1	-	c	*	4	52	35	o	o	or.cce	0.0
	Donaghadee ...	1008.7	48	SW	5	omq	1014.0	+4	37	-6	WSW	5	-	bzq	4	6	49	36	ompd	ompd	omrqb	*
	Liverpool (Bidston)	1016.7	50	S	5	o	1018.4	+5	41	+2	WSW	4	SW	bc	4	1	55	36	o	oq	bzq	0.2
	Holyhead ...	1014.7	49	SSW	7	opdqm	1018.7	+5	43	-1	WNW	5	-	b	5	2	49	42	oqm	opdqm	or.ocb	0.0
	Pembroke (St. Ann's)	1019.0	49	SSW	5	oqr	1022.2	+5	44	-3	WNW	3	NW	b	3	3	50	44	opmd	opmd	cqp	0.0
	Scilly (St. Mary's)	1020.2	51	S	6	oq	1023.8	+3	46	-3	WNW	5	-	bcq	6	1	51	43	omp	c.omq	omrbc	0.3
	Falmouth ...	1021.6	49	S	6	odq	1024.3	+8	44	-4	NW	3	-	b	*	2	50	44	od.o	od.o	od.b	0.0
	Jersey (St. Aubin)	1027.2	48	SE	4	b	1024.2	*	50	+5	SSW	2	-	oe	3	Trace	51	45	o.c.o	om.b	oe	3.3
	Portland Bill ...	1025.1	49	S	3	bc	1020.3	0	48	0	W	5	SW	c	4	Trace	51	45	bc.c	bc.c	c.bcp	*
	Dungeness ...	1027.2	45	S	5	o	1021.1	0	48	+5	SW	5	SW	o	4	-	49	44	b.bc	bc.co	o.bco	*
	Dover	1028.0	46	SW	4	bc	1021.3	+1	47	+7	SSW	4	SW	o	4	0.2	47	42	b	b.bc	bc.c.oe	7.3
	Wick	1006.5	46	S	5	o	1004.5	+4	36	-6	W	5	-	b	4	5	48	34	bc	c.om	or.b	*
	Nairn	1000.0	52	WSW	8	o	1004.5	*	35	-6	WSW	2	-	cq	2	9	52	34	oqu	qu	qrsd	0.0
	Aberdeen ...	1007.2	45	S	6	oqd	1004.6	+6	38	-1	SSW	3	-	b	2	3	49	38	oqp	oqdr	oqdcb	0.0
	Leith	1009.5	50	SW	2	c	1009.5	+3	40	-1	W	3	NW	c	4	6	50	38	c.oq.o	oq.o	cqr.c	*
	Tynemouth ...	1016.4	46	S	3	om	1013.0	+6	40	-3	W	2	-	bm	3	-	49	39	omq	cm	bm	*
	Spurn Head ...	1022.9	45	S	4	om	1016.2	+7	44	+5	NW	6	NW	cq	6	-	45	39	bc	bc.om	oq	1.2
	Yarmouth ...	1025.8	43	SSW	5	b	1017.6	+1	47	+12	WSW	3	-	bc	3	-	47	34	bcm	bm	cm.bc	5.4
	Clacton-on-Sea	1025.6	45	SSE	4	bc	1019.6	0	46	+5	SSW	3	W	o	2	-	46	40	bc	bc	bcoq	6.4
	Nottingham ...	1020.9	48	S	3	o	1018.9	*	42	+9	W	3	W	b	*	1	50	32	bc	o	op	3.1
	Benson (Oxon.) ...	1024.7	47	S	5	o	1020.1	+3	46	+17	NW	4	-	r	*	-	49	28	bc	o	o	*
	Sth Farnborough	1025.5	45	SW	3	o	1019.6	+2	48	+16	WSW	4	-	od	*	0.3	50	31	bf.b.o	o.bc.o	od	?
	London (Kew Obsy.)	1025.7	46	S	2	c	1020.2	+3	48	+19	SW	4	-	omd	*	0.1	50	27	fx.bmd	bc.c	c.o.omd	2.9
NORTHERN EUROPE.	Spitsbergen ...	999.7	0	-	0	s	998.9	0	0	+2	SSE	2	*	bc	*	*	0	-6				
	Vardo	988.8	32	NW	2	o	1001.6	+3	28	0	N	3	-	o	3	*	32	23				
	Bodö	998.4	37	W	4	c	999.3	-7	37	-2	E	4	-	bc	2	7	37	28				
	Christiansund	1005.9	41	SW	6	c	986.6	-11	45	+6	-	0	-	c	5	3	43	37				
	Skudesnaes ..	1014.4	39	S	6	o	998.4	-1	41	0	WNW	7	-	o	6	8	41	39				
	Færder (X'iania Fjord)	1017.1	39	WSW	5	c	1003.0	-10	39	0	S	7	-	m	4	Trace	39	39				
	The Scaw (Skagen)	1022.6	39	W	3	b	1009.6	-6	39	-2	SW	4	-	o	4	-	43	37				
	Blaavands Huk	1027.4	39	SW	2	b	1014.3	-3	41	0	WSW	4	-	o	4	-	41	37				
	Haparanda ...	992.0	25	W	2	b	1003.1	+3	14	-	N	2	-	b	*	-	34	14				
	Hernösand ...	1004.0	37	W	8	b	1002.7	-5	28	-	-	0	-	c	*	-	41	27				
	Stockholm ...	1012.8	34	W	2	b	1008.0	-5	36	-	S	2	-	o	*	-	37	34				
	Wisby	1017.0	36	WNW	6	b	1013.2	-5	36	-	SW	2	-	c	2	-	37	30				
	Karlstad	1016.6	34	W	6	b	1006.7	-7	36	-	SW	2	-	r	*	-	41	30				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1028.4	36	S	3	b	1018.1	-5	45	+2	SW	4	-	o	3	-	45	36				
	C. Gris Nez ...	1028.0	43	SSE	3	b	1021.1	+1	46	+5	SSW	5	*	o	4	-	48	41				
	La Hève	1027.3	45	SE	4	o	1024.2	*	47	+8	W	4	*	o	4	-	48	39				
	Brest (St. Mathieu)	1025.0	50	S	4	o	1025.3	?	51	+1	W	4	*	f	4	?	54	48				
	Rochefort (Ile d'Aix)	1027.7	48	SE	2	b	1029.6	+3	50	+7	SW	2	*	o	*	Trace	54	43				
	Biarritz	1027.5	55	ESE	2	b	1031.1	+2	50	+11	SW	2	*	m	5	?	61	39				
	Paris	1029.9	43	ESE	1	b	1026.6	+2	39	+2	S	2	-	o	*	-	52	34				
	Belfort	1032.3	43	E	4	m	1031.8	*	33	-5	-	0	*	b	*	-	50	31				
	Lyons	1033.2	40	-	0	f	1033.1	*	35	+1	-	0	*	f	*	-	42	34				
	Nice	1032.2	44	-	0	m	1031.9	0	44	+1	E	1	*	b	2	-	54	41				
	Perpignan ..	1030.7	46	-	0	b	1032.2	+2	46	+1	W	1	W	o	*	-	55	41				
	Sanguinaire ...	*	54	N	2	m	*	*	53	-	E	7	*	o	1	-	59	?				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1028.4	55	NNW	2	b	1031.7	+3	46	+1	S	2	-	o	5	-	57	45				
	Madrid (8 a.m.)	1031.5	48	E	1	c	1035.0	+1	34	-1	N	1	-	b	*	-	50	32				
	Lisbon (9 a.m.)																					
	Gibraltar	1028.1	57	E	6	b	1028.4	*	56	-	SE	4	*	bc	2	-	59	55				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1026.0	+1	52	-3	WNW	2	-	b	2	-	59	50				
	Azores (Horta, 8 a.m.)	1025.6	*	NNE	5	b							*									
	Madeira (Funchal)	1025.3	63	E	3	c	1027.7	0	57	+2	N	3	N	o	3	-	64	54				

GALES

Duration and Extreme Force in British Islands

Stornoway: 23rd Jan.

Squalls S.8. during day

Glasgow: 23rd Jan.

Squalls SW.8 9 pm. to Midnt

Eskdalemuir: 23rd & 24th Jan.

SSW.8. 6 pm to 1 a.m
S.S.W 9. at midnight
Gust S.S.W 33 m.p.s

Malin Head: 23rd & 24th Jan.

W.8. 11 a.m to 7 a.m.
W.9 at 9 p.m.

Blacksod Point: 23rd Jan.

S.9 8 a.m to 5 p.m
S.10 at 11 a.m.

Holyhead: 23rd Jan.

Gust S. 20 m.p.s.

Nairn: 23rd Jan.

W.S.W 8 5 pm to 11 p.m
W.S.W 9 at 8 p.m

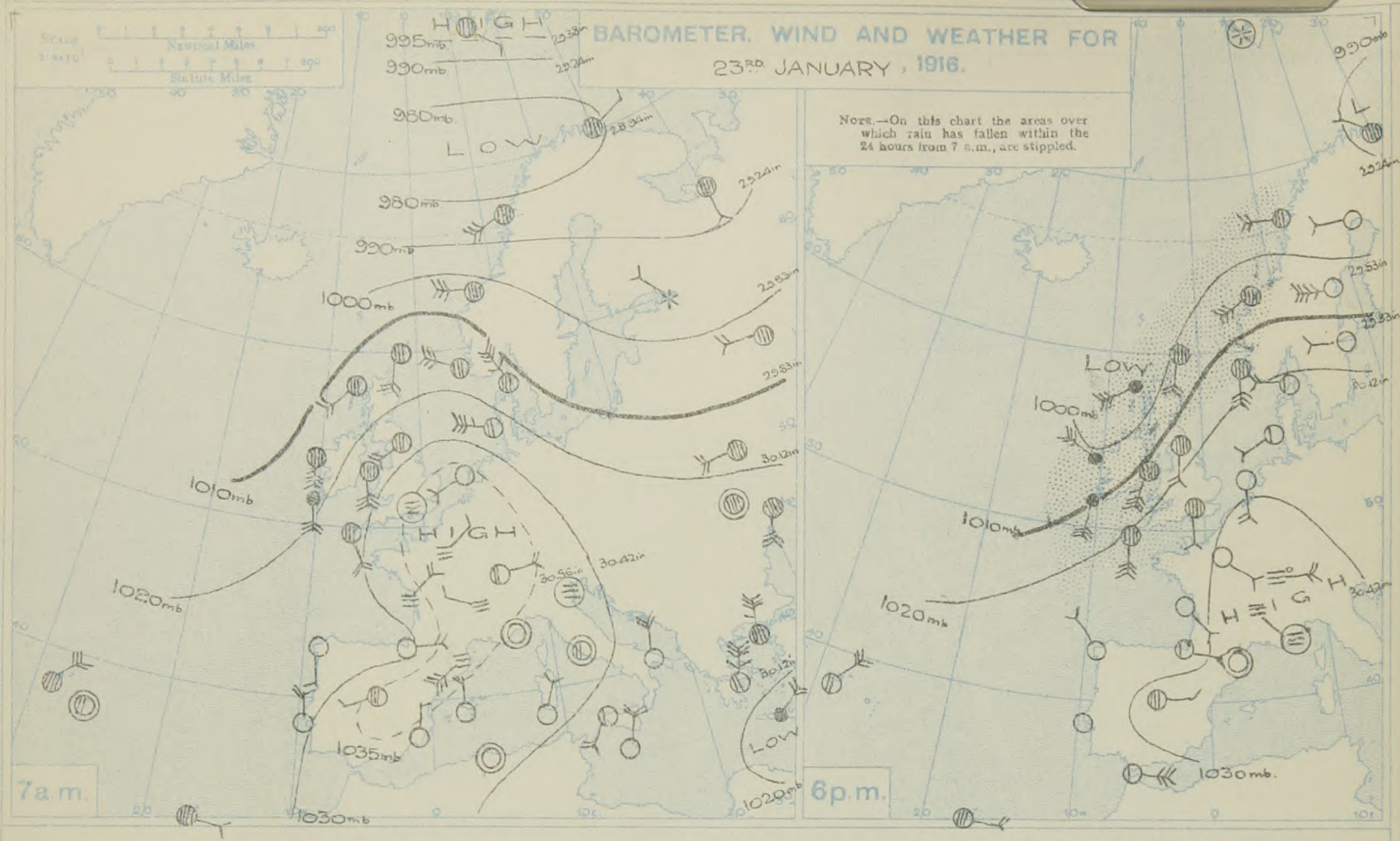
Aberdeen: 23rd Jan.

Gust S. 19 m.p.s
Gust SS.W. 21 m.p.s at 11 p.m

Southport: 24th Jan.

Gust S.S.W to W. 60 m.p.h at 1.40 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 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.

0 {a, b} 1 — Westerly and South-Westerly winds, moderate or fresh, strong at times locally; some showers, fair intervals; moderate temperature.

2 {a, b} 3 4 {a, b} 5 — Wind between South-West and North-West, light or moderate, stronger at times; some showers, considerable fair intervals; colder.

6 {a, b} — Same as Nos. 0 and 1.

7 {a, b} 8 {a, b} 9 {a, b} 10 {a, b} — Wind between West and South-West or South, moderate or fresh, strong at times; changeable, showery; rather mild.

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

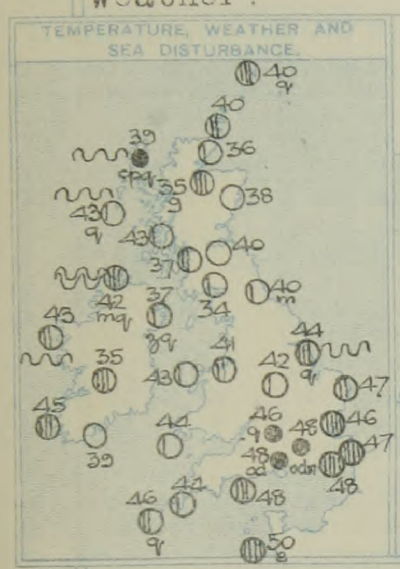
FURTHER OUTLOOK.

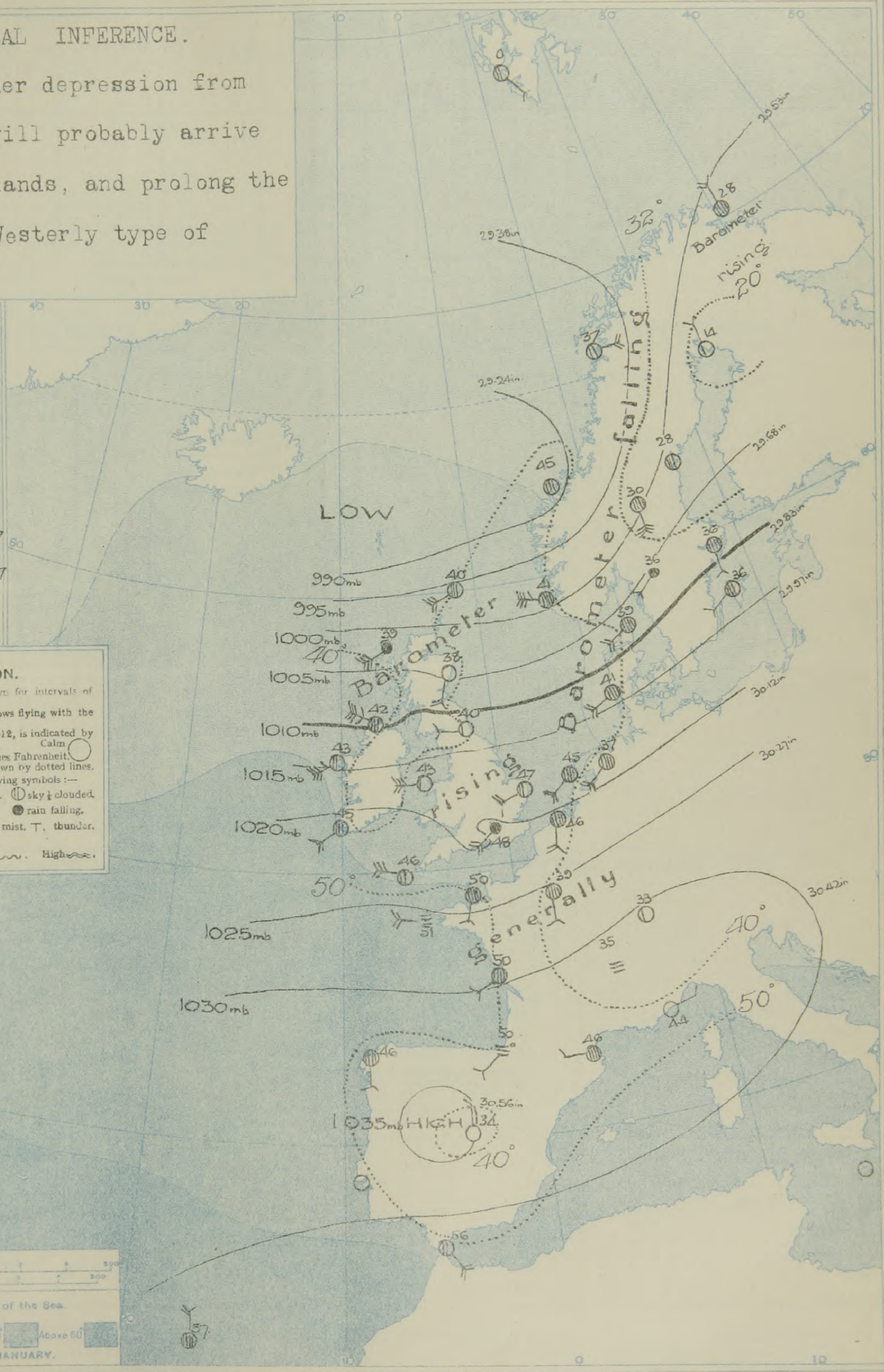
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 24TH JANUARY, 1916.

GENERAL INFERENCE.

Another depression from the Atlantic will probably arrive over these Islands, and prolong the Southerly to Westerly type of weather.





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. T, thunder. Ts, thunderstorm.

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

Inches.
31
30
29

Scale: 1 = 10°
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for JANUARY.

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

*Station Date & Hour.		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		9th. Farnborough 18th. 7.50h.		Benson. 18th. 12.10h		Aberdeen. 21st. 11h.		Benson. 22nd. 11.50h.													
Heights in Kilometres.	4			+13	+19																
	3			+9	+10																
	2	+10	+5	+8	+7																
	1	+7	+1	+9	+4	+24	+7	+16	-4												
	0·5	+9	−1	+7	+2	+14	+6	+12	+1												
	0	+3	+2	0	0	+6	+2	+7	+2												

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	51	37	r	o	00
	Banff	-	46	37	c	c.bc	00
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	46	35	bc.c	c.o	0·9
	Skegness	.	46	33	o.bc	bc.og	3·4
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	-	50	35	c.o	o	1·0
Midlands.	Buxton						
	Leamington Spa	-	48	30	c.bc	c	2·6
	Malvern	.	49	35	bbc.c	c.o	2·0
	Ross-on-Wye	.	52	29	xbc.c	c	0·3
Wales.	Llandudno	.	51	40	c	c.bc.b	1·3
	Rhyl	-	52	38	bc	c	0·2
	Colwyn Bay	.	51	41	bc	c.o	0·5
	Aberystwyth	-	50	42	o c.b	c.o	0·7
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	-	46	41	bcm.b	b.bc	6·8
	Walton-on-Naze						
	Southend-on-Sea	-	52	36	b	b	6·9
England, S.E.	Margate	-	49	38	b	b	6·2
	Ramsgate	-	46	35	bc	bc	7·3
	Hastings	.	49	37	b	b.bc.o	7·1
	Eastbourne						
	Seaford						
	Brighton	-	49	32	bxb.	bc.bpcp	2·2
	Worthing	-	50	32	bbc	bc	6·4
	Littlehampton	-	49	?	b	bc.c	6·3
	Bognor	.	49	35	b	bc.o	5·2
	Southsea	-	50	35	bc	c.o	2·8
	Bournemouth	.	51	29	bc	o.b.o	1·9
England, S.W.	Weymouth	.	52	34	bc	bc.o.c	0·8
	Torquay	-	51	36	o.c	c.o	0·2
	Paignton	-	52	32	o	o	0·0
	Penzance						
	Newquay	*	50	36	c.od	c.od	0·1
	Ilfracombe						
	Weston-super-Mare	.	51	36	bc.c	c.o	0·1

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.)	71	82	6·3	51	38	31	0·3	b	b	o od
City (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	85	3·5	51	38	33	0·9	m.bx	bc	bc.od
Camden Sq. (Brit. Rainfall)	-	87	2·6	50	32	30	1	-	-	*
Hampstead (Reservoir)	*	92	3·4	48	43	35	1	-	-	o.od.o
Richmond Park	*	*	4·3							
Kew. (See front page.)	*	*	2·9							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	79	82	4·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
364 Joules	11·7 Milliwatts.	27 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.	-	53	42	37	b.c	c	c	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*	49	34	23	b	b.bc	bc.co	*
Teignmouth to 9 ,,								
Plymouth ,,	-	51	34	31	o	o	o	0·0
S. Kensington (Museum Grounds to 6 p.m.)	1	51	35	23	o.b	bm.	b.o	*

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

24th & 25th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7. 49 / 7. 48	12. 5 / 12. 5	4. 21 / 4. 22
Greenwich	7. 52 / 7. 51	12. 12 / 12. 12	4. 32 / 4. 33
Wick	8. 38 / 8. 36	12. 24 / 12. 24	4. 11 / 4. 13
Valencia	8. 35 / 8. 34	12. 53 / 12. 53	3. 11 / 3. 12

NOTES ON YESTERDAY'S WEATHER.

Rain fell in most regions, but not heavily. In the south-east the weather was extremely fine, the sunshine records exceeding 6 hours. Temperature touched 50° in many localities after having been low early in the day.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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. 25. { Tuesday 25th January

	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 ...	1010·0	44	WSW	5	cq	996·5	0	46	+6	SW	5	-	omq	4	16	46	36	cqpcp	cqtlsp	omrq	*
	Deerness (Orkney)	1009·8	43	SSW	4	cp	998·3	*	48	+8	SW	4	-	r	4	4	49	41	bc.cp	cp.c	c.oc	2·4
	Stornoway ...	999·6	49	WSW	7	orq	998·4	-1	51	+12	WSW	7	-	odq	6	9	51	39	cpq	cporq	odrq	1·1
	Castlebay (Barra Isd.)																					
	Glasgow ...	1014·1	44	SW	5	0	1013·3	0	47	+10	SW	4	-	0	*	0·2	47	36	opcbc	bc.cpq	oqdp	3·3
	Eskdalemuir ...	1017·9	41	SW	6	0	1015·4	-1	44	+10	SW	8	-	od	*	3	44	34	b.bc.c.o	o.c.o	od	2·9
	Malin Head ...	1010·4	44	SW	9	omq	1009·7	-2	48	+6	SW	8	SW	cq	8	1	50	38	omq	omq	cq	2·3
	Blacksod Point	1015·1	48	SSW	7	omqd	1012·5	-1	48	+5	SSW	8	SW	omd	7	2	49	45	bcqp	omqd	omqp	*
	Valencia ...	1024·8	49	SSW	3	0	1022·2	-1	49	+4	SW	4	-	0	*	0·2	50	42	bc	c.o	o	3·8
	Roche's Point	1027·8	48	SW	3	c	1025·4	*	49	+10	SW	3	-	0	3	0·4	49	38	b	bcp.c	c.bc.o	*
	Birr Castle ...	1022·6	46	S	1	c	1020·3	*	48	+13	S	5	-	0	*	-	48	35	c	c	o	5·5
	Donaghadee ...	1017·1	46	SW	6	ogmq	1014·9	-1	49	+12	SW	6	SW	cmq	4	-	49	36	bcm	bcm.og	omq.cq	*
	Liverpool (Bidston)	1024·4	43	SW	4	b	1022·7	0	47	+6	SW	3	-	og	3	-	47	39	bbc	bc.o	c.o	6·7
	Holyhead ...	1023·6	46	WSW	5	bc	1022·2	0	48	+5	SW	6	-	cqg	5	-	48	43	b	bc	bcqg	6·8
	Pembroke (St. Ann's)	1027·9	47	WSW	4	bc	1026·8	0	48	+4	WSW	4	W	c	4	-	48	43	b	bc	bg.bc	6·1
	Scilly (St. Mary's)	1030·5	47	W	4	bcv	1029·1	-1	48	+2	WSW	4	W	cv	5	-	50	44	bc.bv	bbcv	bv.bcv	6·7
	Falmouth ...	1030·9	41	NNW	1	b	1029·9	0	41	-3	WSW	2	-	c	*	-	51	38	b	b.bc	b.bc	7·0
	Jersey (St. Aubin)	1031·3	45	NW	2	b	1031·9	*	40	-10	SW	3	-	b	2	0·1	51	34	omdo	ob.bc.b	bv	2·3
	Portland Bill ...	1030·1	47	WNW	2	b	1030·2	-1	48	0	WSW	4	W	bc	4	-	51	45	c.bc	b.bc	b.bc	*
	Dungeness ...	1028·4	39	NW	1	b	1029·9	0	45	-3	W	3	SW	bc	3	-	48	37	bc	bc	bx.bc	*
	Dover	1029·9	39	-	0	b	1030·0	0	40	-7	SW	4	SW	b	0	1	48	36	drobc	bc.b.bc	b	2·3
	Wick	1003·2	43	SSW	3	bc	1000·3	-2	47	+11	WSW	4	-	bc	4	1	52	35	bcp	bcp	bcqp	*
	Nairn	1004·1	45	WSW	5	cgq	1003·4	*	49	+14	WSW	6	-	orq	4	8	50	35	cgbc	bc.c	cpqr	3·8
	Aberdeen ...	1009·6	43	SSW	4	b	1005·9	-1	51	+13	SW	3	W	b	2	-	52	36	bzb	b.bc.b	b.bc	5·4
	Leith	1012·9	44	WSW	4	bc	1011·0	-1	49	+9	WSW	6	-	o	5	-	51	38	cqp.c	oqgo	bp.oqo	*
	Tynemouth ...	1018·6	44	SW	4	bcm	1016·5	0	48	+8	SW	4	SW	bcmq	3	-	48	40	bcm	bcm	bcmq	*
	Spurn Head ...	1024·1	44	NW	5	bc	1022·8	0	43	-1	WSW	4	-	cq	4	-	45	40	bcq	bc	bc	5·6
	Yarmouth ...	1026·4	40	W	3	b	1026·5	-2	41	-6	W	4	-	bc	3	-	48	37	bc.b	b	bm.bc	5·5
	Clacton-on-Sea	1028·2	41	WNW	2	bc	1028·6	0	39	-7	W	2	W	bc	2	0·3	47	38	ogrbc	bc	bcbbc	4·5
	Nottingham ...	1026·0	42	SW	2	b	1024·2	*	41	-1	WSW	4	W	c	*	-	47	38	b	b	bc.o	6·1
	Benson (Ozon.) ...	1028·8	39	SW	1	b	1029·2	0	37	-9	SW	3	-	b	*	-	46	36	b	b	b	*
	Sth Farnborough	1029·1	37	SSW	1	b	1029·6	-1	37	-11	SW	3	-	bc	*	1	49	33	orbc	bcb	bc	5·9
	London (Kew Obsy.)	1029·3	42	SW	2	bm	1029·6	-1	39	-9	SW	3	-	bmx	*	1	49	37	omd.c.b	b.bm	bm.bmx	5·1
NORTHERN EUROPE.	Spitsbergen ...	996·2	0	SSE	2	s	982·9	-9	2	-2	-	0	*	0	*	*	1	-9				
	Vardö	1000·0	27	-	0	b	997·1	-3	27	-1	SSE	5	-	0	4	*	28	27				
	Bodö	986·9	41	ESE	3	0	976·2	-13	37	0	ESE	4	-	bc	2	?	41	30				
	Christiansund	994·1	39	NW	6	s	986·6	0	46	+1	NNW	7	-	c	5	10	45	28				
	Skudesnaes ..	1007·4	41	WSW	6	c	1003·8	0	43	+2	WNW	4	--	o	6	8	41	37				
	Færder (X'tania Fjord)	1004·2	39	WSW	6	b	1002·7	-2	39	0	SW	7	-	0	4	-	41	37				
	The Scaw (Skagen)	1007·8	39	WNW	6	b	1008·0	-3	43	+4	W	5	-	0	5	1	43	39				
	Blaavands Huk	1017·1	41	WNW	4	b	1017·8	-2	41	0	W	6	-	0	5	1	43	39				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1025·5	43	W	4	b	1025·7	0	45	0	SW	4	W	bc	3	Trace	46	43				
	C. Gris Nez ...	1028·8	45	W	1	b	1029·6	0	46	0	WSW	4	*	b	3	3	48	45				
	La Hève	?	45	W	2	o	1031·1	*	46	-1	SSW	2	*	m	2	-	48	41				
	Brest (St. Mathieu)	1031·9	47	NE	2	bc	1033·1	0	43	-8	E	3	*	b	4	-	52	41				
	Rochefort (Ile d'Aix)	1032·7	51	WSW	2	o	1033·2	0	50	0	SW	3	*	o	*	Trace	54	48				
	Biarritz	1032·6	51	E	2	b	1031·9	0	43	-7	-	0	*	b	3	-	59	41				
	Paris	1030·4	48	SSW	2	o	1032·0	+1	43	+4	-	0	-	f	*	2	50	39				
	Belfort	1033·6	41	W	5	m	1034·3	*	40	+7	-	0	*	o	*	-	50	39				
	Lyons	1033·7	43	NNW	2	b	1034·4	*	43	+8	NNW	1	*	o	*	-	50	38				
	Nice	1030·0	46	-	0	b	1030·1	0	40	-4	-	0	*	b	2	-	51	39				
	Perpignan ...	1030·9	46	-	0	b	1030·1	0	45	-1	NW	2	-	b	*	-	55	36				
	Sanguinaire ...	*	56	ESE	2	o	*	*	54	+1	E	2	*	o	1	-	66	48				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1031·8	55	N	2	o	1031·5	0	41	-5	S	1	-	m	4	-	59	41				
	Madrid (8 a.m.)														*							
	Lisbon (9 a.m.)	1029·2	55	NNE	2	b	1029·1	0	45	-1	N	3	-	b	6	-	57	45				
	Gibraltar	1027·7	58	SE	5	b	1026·1	*	57	+1	E	6	*	c	4	1	61	56				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1027·5	*	S	4	o	1025·9	-1	59	+3	S	5	*	b	3	-	63	59				
	Madeira (Funchal)	1027·1	63	NE	3	bc	1026·0	0	59	+2	ENE	3	N	o	3	-	64	55				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 24th & 25th Jan.

Squalls W.S.W. 8.

Eskdalemuir: 25th Jan.

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

Malin Head: 24th & 25th Jan.

W.N.W. to S.W. 8. 7 am to 7 am
S.W. 9 at 6 pm.

Blacksod Point: 25th Jan

SSW 8 at 1 a.m
SSW 8 at 7 a.m.

Nairn: 24th & 25th Jan.

W.S.W. 8. 10 pm to 3 a.m.

South Farnborough: 25th January. 7.40 a.m.

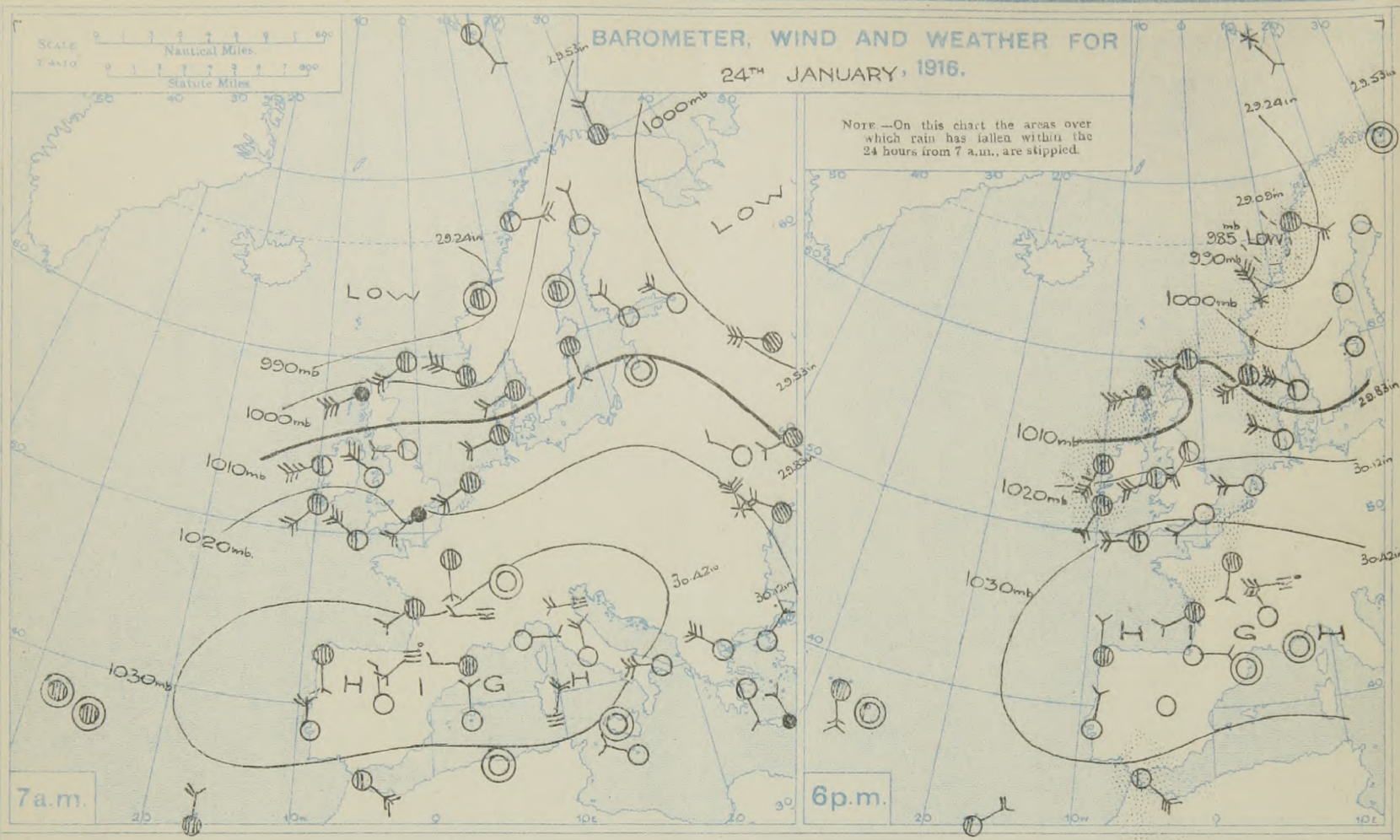
Pilot Balloon Ascent

2,000 metres. W.S.W. 14 miles per hour.

500 metres. W by S. 30 miles per hour.

* 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 24TH JANUARY, 1916.



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.

0 a, b; 1	Strong or high winds between South-West and West; occasional rain, fair intervals; mild.
2 a, b	Fresh or strong South-Westerly winds; fair, some showers; temperature normal.
3; 4 a, b; 5	Moderate winds from between West and South-West; weather fair or fine; cold at night.
6 a, b	Same as Nos. 0 and 1.
7 a, b	Same as No. 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b; 10 a, b	Same as No. 2.
Western Channel and Bay 11	Moderate South-Westerly winds; sea moderate; fair weather.

FURTHER OUTLOOK.

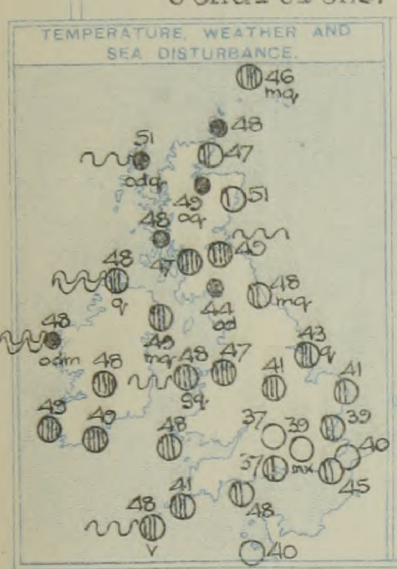
R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 25TH JANUARY, 1916.

GENERAL INFERENCE.

Little change is anticipated in the general conditions.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∼∼. High ≈≈.

Scale of Tints for JANUARY.

Normal Temperature of the Sea
Below 40° | 40°–50° | 50°–60° | Above 60°

Scale 1:2×10⁷
Nautical Miles
Statute Miles

Issue No. 19,787

DAILY WEATHER REPORT.

Tuesday, 25th January 1916.

REPORTS FOR YESTERDAY.

24th January 1916.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	999·4	28	WNW	3	b	1002·3	+3	27	-7	NW	4	N	b	*	-	34	27
Lisbon	1026·0	55	NW	2	b	1030·4	+1	46	0	N	3	-	b	4	-	57	46
Rome	1030·6	48	-	0	b	1031·1	0	37	-2	N	3	-	b	*	-	*	*
Horta	1026·6	*	NNE	5	b	1028·8	0	56	+2	-	0	*	0	2	-	61	52

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	46	38	or	o	2·0
	Banff	6	46	36	b	b.bc	6·1
	St. Andrews	5	44	36	*	*	2·9
Eng., N.E.	Harrogate	-	45	36	b	b	6·2
	Skegness	0·3	47	39	b.bc	bc.b	6·3
Eng., N.W.	Morecambe	-	46	42	bc	bc	6·2
	Blackpool						
	Southport	0·3	47	36	b	b	6·4
Midlands.	Buxton						
	Leamington Spa	1	47	37	b.bc	b.bc	7·5
	Malvern	1	46	39	b	b	7·8
	Ross-on-Wye	-	49	36	b	b	7·4
Wales.	Llandudno	1	54	41	c.b	b	6·0
	Rhyl	1	48	40	bc	c	6·3
	Colwyn Bay	3	46	40	b	bc	6·2
	Aberystwyth	2	48	44	r.o.c	c.bc	6·0
	Tenby	1	48	36	b	bc	6·6

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	43	41	o.c.bc	bc.c	5·2
	Felixstowe	0·2	47	40	om.bc	bc.b	4·9
	Walton-on-Naze	0·3	46	40	bcogd	o.c.b	4·5
	Southend-on-Sea	1	51	43	oz.dr	b	4·3
England, S.E.	Margate	-	50	43	c	b.bc.b	2·1
	Ramsgate	-	48	42	od	bcz	2·6
	Hastings	1	50	42	f.m.c	b	3·2
	Eastbourne	0·3	50	45	or.bc	bc	3·8
	Seaford	0·3	51	40	rc	b	4·0
	Brighton	-	51	47	od.o.c	bc.b	4·4
	Worthing	-	51	43	c.bc	bc.b	4·6
	Littlehampton	0·3	49	41	o.b	b.bc	4·8
	Bognor	1	50	44	o.b	b	5·3
	Southsea	-	49	44	b	b	6·0
	Bournemouth	-	48	41	b	b	6·5
England, S.W.	Weymouth...	-	51	44	bc.b	bz	6·6
	Torquay	0·2	51	44	b	b	?
	Paignton	0·3	51	43	p.b	b	7·3
	Penzance	1	51	43	b	b	7·1
	Newquay	*	49	45	b	b	6·8
	Ilfracombe						
	Weston-super-Mare ...	1	50	39	b	b	7·5

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.	Afternoon.	Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	58	81	3·7	47	37	31	-	o.c	bc.b	b.
City (Bunhill Row)	*	*	3·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	83	4·5	50	38	32	-	bc	bc	bc
Camden Sq. (Brit. Rainfall)	87	84	4·6	49	37	32	-	o.bc	b	*
Hampstead (Reservoir) ...	*	86	5·1	46	34	26	-	o	bc.b	b.bc
Richmond Park ...	*	*	5·0							
Kew. (See front page.)	*	*	5·1							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	57	84	4·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
360 Joules	11·6 Milliwatts.	27 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature In Screen Max.	Temperature In Screen Min.	Temperature Night Min. on Grass.	Weather Night.	Forenoon.	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 ,,	-	51	44	28	op.bc	b	b	7·5
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	50	44	44	o	o.b	b.bz	*

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

25th, 26th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·48 / 7·47	12·5 / 12·6	4·22 / 4·24
Greenwich	7·51 / 7·50	12·12 / 12·13	4·33 / 4·35
Wick	8·36 / 8·34	12·24 / 12·25	4·13 / 4·15
Valencia	8·34 / 8·33	12·53 / 12·54	5·12 / 5·14

NOTES ON YESTERDAY'S WEATHER.

Rain fell in the north, but some bright sunshine was recorded in all districts, and in the south-west the amounts were large, over 7 hours at several stations. Gales were experienced at a few stations in the north-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.

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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. 26 { Wednesday 26th January

	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 ...	994·9	45	SW	6	bcq	998·9	+2	41	-5	WSW	6	W	bcq	5	3	48	39	ompq	opq.c	bcqep	*
	Deerness (Orkney)	996·9	45	SW	5	bl	1002·4	*	44	-4	WSW	5	-	c	4	13	49	41	r	r.c.bc.b	b.bcl.c	0·0
	Stornoway ...	998·8	46	WSW	7	bcpq	1007·3	+4	40	-11	WSW	6	-	bq	5	10	51	39	orq	or.bcpq	bc.bpq	0·0
	Castlebay (Barra Isd.)	1004·3	48	WSW	6	b	1011·1	+2	46	-4	SW	5	SW	bcp	6	2	50	42	r	r.ob	b.o.bcp	0·0
	Glasgow ...	1009·4	47	SW	6	ogd	1014·5	+3	43	-4	W	2	NW	bc	*	3	48	42	ogdp	ogdp	q.p.cpb	0·0
	Eskdalemuir ...	1012·5	45	SW	7	od	1016·9	+4	40	-4	SW	3	NW	b	*	5	46	39	od.o	o.od	od.c.bc	0·0
	Malin Head ...	1006·9	50	SW	8	cmq	1014·2	+1	44	-4	SW	4	-	bc	3	-	50	41	cmq	cmq	bc	0·0
	Blacksod Point	1012·5	40	SW	8	omr	1015·8	0	47	-1	WSW	4	W	cmd	6	1	51	44	omp	omr	cmp	*
	Valencia ...	1019·9	50	S	4	o	1019·4	0	50	+1	S	4	-	op	*	3	51	48	c.op	c.og	od.or.o	0·2
	Roche's Point	1022·9	49	WSW	4	o	1022·6	*	50	+1	WSW	3	-	o	3	0·1	51	47	og	odp.o	om	*
	Birr Castle ...	1018·2	50	SW	4	o	1018·6	*	48	0	SW	1	-	r	*	2	51	48	o	o	od.r	0·0
	Donaghadee ...	1012·8	50	WSW	5	ogmq	1016·3	+1	46	-3	WSW	4	W	cgm	4	0·1	51	45	gmq	ogmq	cgm	*
	Liverpool (Bidston)	1019·8	48	SW	4	o	1026·1	+1	48	+1	SW	2	W	c	3	-	49	46	cq	o	c.bc	0·2
	Holyhead ...	1019·4	49	SW	7	ogqm	1019·5	0	49	+1	WSW	5	-	og	4	-	49	48	c.ogq	ogq	o.b.bc.o	0·0
	Pembroke (St. Ann's)	1022·0	48	SW	5	oq	1023·2	0	48	0	WSW	4	-	ogp	5	0·2	49	47	cq	oq	cqpq	0·2
	Scilly (St. Mary's)	1026·5	49	WSW	4	oq	1025·3	0	49	+1	SW	3	W	c	5	-	51	46	c.o	c.oq	o.c.	1·4
	Falmouth ...	1026·9	47	SW	3	o	1026·2	0	45	+4	WSW	1	-	o	*	-	48	40	o	o.c.o	c.o	0·2
	Jersey (St. Aubin)	1029·5	47	SW	3	o	1027·5	*	49	+9	WSW	4	-	o	3	1	50	39	b	bc.o	b.cdo	6·7
	Portland Bill ..	1026·8	48	W	4	c	1025·8	-1	48	0	W	3	W	c	3	0·3	49	46	c.o	c	cr.bc	*
	Dungeness .	1027·0	47	WSW	4	o	1025·8	0	45	0	SW	3	SW	c	3	-	49	42	bc	bc.c.o	bc	*
	Dover	1027·6	46	SW	4	o	1026·6	0	43	+3	SW	2	-	b	4	-	48	41	b	b.bc.o	b	5·0
	Wick	997·9	46	WSW	3	c	1006·1	+4	40	-7	WSW	4	-	b	4	5	48	39	cmp	cmp	bcqp	*
	Nairn	1001·7	46	W	5	cq	1009·3	*	40	-9	W	1	-	bc	2	10	49	38	qr	qr.c	cqg	0·0
	Aberdeen ...	1003·4	52	SW	4	b	1011·3	+3	42	-9	SW	3	-	b	2	-	56	42	bc.b	b	b	2·5
	Leith	1007·6	50	WSW	6	c	1013·2	+2	44	-5	W	2	W	c	4	-	51	43	o.cq.o	oqr.c	c.oq.c	*
	Tynemouth ...	1013·3	49	W	4	cmq	1016·1	+3	47	-1	WSW	2	-	c	3	-	50	46	bcmq	cmq	cmq	*
	Spurn Head ...	1019·8	47	WSW	5	cq	1018·9	+1	46	+3	WSW	4	-	bcq	5	-	47	40	cq	cq	bcq	0·0
	Yarmouth ...	1024·3	44	WSW	4	bc	1022·5	0	41	0	WSW	3	-	b	3	-	48	40	bc	bcm	bc.b	3·5
	Clacton-on-Sea	1025·1	44	SW	3	c	1024·9	0	44	+5	SW	3	W	c	2	-	48	38	bc	bc.c	c	4·0
	Nottingham ...	1021·7	46	SW	4	o	1021·9	*	44	+3	SW	2	SW	b	*	-	49	41	bc.o	o	o	0·1
	Benson (Oxon.) ...	1025·9	45	SW	4	o	1025·0	0	43	+6	SSW	3	-	o	*	-	47	37	o	o	c	*
	Sth Farnborough	1026·3	45	WSW	2	o	1025·1	0	39	+2	SW	1	NW	bcv	*	-	49	36	bc	bcv.o	o.bbc	4·4
	London (Kew Obsy.)	1026·3	46	SW	3	o	1025·5	+1	45	+6	SW	3	-	c	*	-	49	39	bmq.bcm	cmc.o	obcd.oc	4·5
NORTHERN EUROPE.	Spitsbergen ...	969·5	12	-	0	c	965·1	-1	0	+2	S	1	*	o	*	*	18	-4				
	Vardö	993·8	25	SE	3	s	974·0	-6	27	0	SSW	5	-	o	4	*	27	21				
	Bodö	972·4	37	SW	7	o	973·3	0	36	-1	WNW	6	-	c	3	3	41	32				
	Christiansund	984·0	45	WSW	6	o	984·7	0	43	-3	W	6	-	o	6	3	46	39				
	Skudesnaes ..	1000·4	43	SSW	5	o	1003·0	+2	43	0	W	6	-	b	6	-	43	41				
	Færder (X'ania Fjord)	998·9	41	SW	7	o	1000·6	+3	41	+2	WSW	6	-	b	4	Trace	41	39				
	The Scaw (Skagen)	1007·1	45	W	6	o	1006·9	+2	43	0	WNW	6	-	o	6	-	45	43				
	Blaavands Huk	1016·3	41	SE	5	o	1015·1	0	43	+2	WSW	5	-	o	5	Trace	43	39				
	Haparanda ...	984·8	25	S	4	c	975·0	-2	27	+8	WSW	4	-	o	*	3	28	19				
	Hernösand ...	989·5	32	S	2	b	985·5	+2	37	+10	SW	2	-	b	*	Trace	43	25				
	Stockholm ...	1000·2	39	WSW	4	o	995·0	0	41	+9	WSW	6	-	bc	*	-	41	32				
	Wisby	1006·3	41	WSW	6	o	1002·3	0	41	+5	WSW	6	-	b	6	-	41	34				
	Karlstad	999·4	37	SW	4	o	998·4	+3	41	+4	WSW	4	-	b	*	-	41	36				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1028·9	45	SW	5	b	1022·4	+1	45	0	SW	4	-	o	3	-	46	45				
	C. Gris Nez ...	1027·4	47	SW	4	o	1026·1	0	46	0	WSW	5	*	o	4	-	48	45				
	La Hève	1028·6	40	SW	1	b	1026·9	*	46	0	SW	2	*	o	2	-	50	43				
	Brest (St. Mathieu)	1029·9	48	E	1	f	1028·6	0	50	+7	SW	3	*	o	3	1	52	43				
	Rochefort (Ile d'Aix)	1031·1	49	WSW	1	b	1030·7	0	42	-8	WNW	1	*	m	*	-	55	41				
	Biarritz	1031·1	50	ENE	2	b	1029·7	0	41	-2	ESE	1	*	m	3	-	55	39				
	Paris	1030·1	41	NNE	1	c	1029·7	+1	41	-2	SSE	1	-	o	*	-	48	36				
	Belfort	1031·9	43	WSW	4	bc	1031·7	*	42	+2	W	2	*	o	*	?	50	39				
	Lyons	1032·8	44	NNW	1	o	1032·3	*	42	-1	NNW	1	*	o	*	-	46	42				
	Nice	1029·2	47	-	0	o	1029·6	0	42	+2	E	2	*	c	2	-	54	39				
	Perpignan ...	1029·0	43	-	0	b	1030·3	+1	36	-9	WSW	1	-	m	*	-	61	34				
	Sanguinaire ...	*	55	E	2	o	*	*	50	-4	E	3	*	o	2	-	51	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1030·1	55	N	2	b	1029·9	-1	41	0	SW	1	-	f	3	?	57	39				
	Madrid (8 a.m.)	1027·5	55	-	0	b	1030·4	+3	36	0	-	0	-	b	*	-	57	32				
	Lisbon (9 a.m.)	1027·3	54	N	2	b	1026·0	0	45	0	N	3		b	?	-	57	45				
	Gibraltar	1026·1	55	SE	4	b	1024·4	*	56	-1	E	5	*	bc	3	1	60	54				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1027·3	0	48	-6	SW	1	S	b	0	-	59	48				
	Azores (Horta, 8 a.m.)	1023·5	*	S	5	o							*									
	Madeira (Funchal)	1024·2	61	ENE	3	o	1024·0	0	55	-4	NE	2	-	b	2	-	64	55				

GALES.

Duration and Extreme Force in British Islands.

Stornoway: 25th Jan.

Squalls W.S.W. 8

Eskdalemuir: 25th Jan.

S.W. 8 Noon to 2 pm
S.W. 8 7 pm.

Malin Head: 25th Jan.

S.W. 8. 7 a.m to 10 pm.

Blacksod Point: 25th Jan.

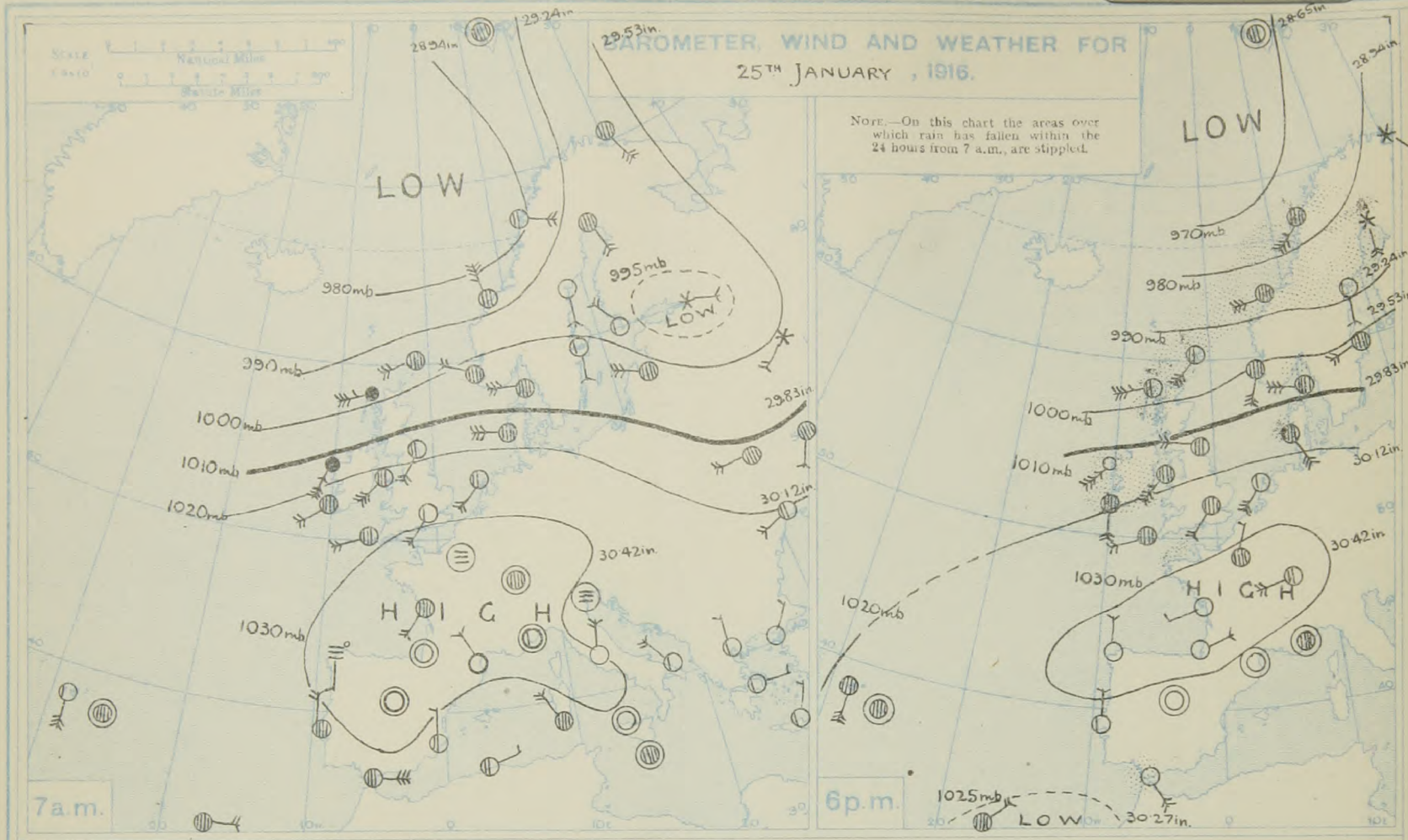
S.S.W. 8 7 a.m to 7 pm.

South Farnborough: 7.35 a.m. 26th Jan.
Pilot Balloon Ascent.

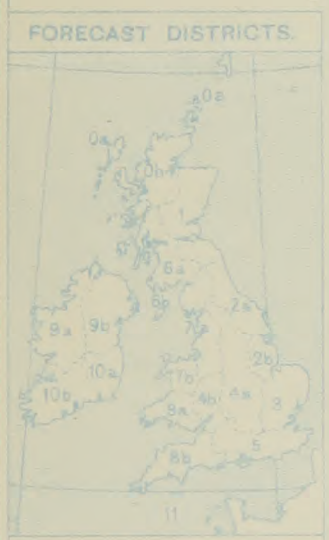
2,000 metres. W. 14 miles per hour

500 metres. W by S. 24 miles per hour

* 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.

0 a, b	Fresh or strong Westerly winds, moderating; fair intervals, some showers; moderate temperature.
1, 2 a, b	Moderate Westerly winds; mostly fair, some showers; moderate temperature.
3, 4 a, b, 5	Light or moderate winds between West and South-West; fair generally; moderate temperature.
6 a, b, 7 a, b	Same as Nos. 1 and 2.
8 a, b	Same as Nos. 3 to 5.
9 a, b, 10 a, b	Same as Nos. 1 and 2.
Western Channel and Bay 11	Light rather variable winds; moderate sea; fair generally.

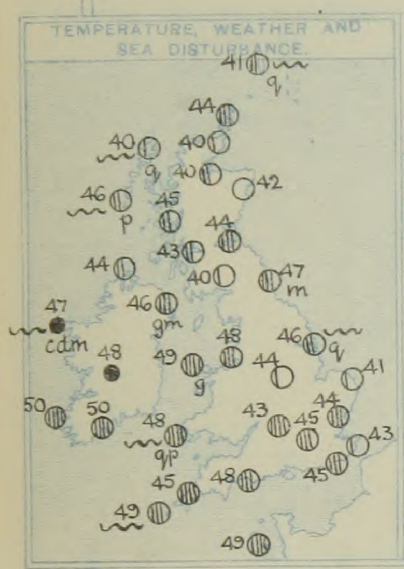
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 26TH JANUARY, 1916.

GENERAL INFERENCE.

No important modifications in the prevailing conditions is anti anticipated, but the gradient in the north will become less steep.



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 1:2 110⁶
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 JANUARY.

LOW

965mb
970mb
975mb
980mb
985mb
990mb
995mb
1000mb
1005mb
1010mb
1015mb
1020mb
1025mb
1030mb

28·35in.
28·50in.
28·65in.
28·79in.
28·94in.
29·09in.
29·24in.
29·53in.
29·68in.
29·83in.
29·97in.
30·12in.
30·27in.
30·42in.
30·27in.

Barometer rising

Barometer steady

32°
40°
45°
45°
45°
45°

LOW

Issue No. 19,788

DAILY WEATHER REPORT.

Wednesday, 26th January 1916.

REPORTS FOR YESTERDAY.

25th January, 1916.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Castlebay	1006·1	49	SW	6	r	1004·6	-1	50	+7	SW	6	-	r	6	3	50	40
Haparanda ...	996·6	18	N	2	0	996·2	-1	19	+5	SSE	4	-	0	*	-	21	10
Hernosand ...	988·8	32	S	2	0	996·7	0	27	-1	S	2	-	ƀ	*	2	36	25
Stockholm... ...	993·5	37	WSW	4	0	1003·3	+1	32	+4	S	2	-	ƀ	*	Trace	39	20
Visby	1000·2	36	SSW	6	ƀ	1008·4	+3	36	0	WSW	4	N	ƀ	4	1	37	32
Karlstad... ...	1000·0	37	WSW	6	ƀ	1004·0	-4	37	+1	WSW	4	-	0	*	-	41	30
Petrograd... ...	1000·4	25	SW	2	0	994·1	0	28	+1	ESE	2	-	S	*	4	30	23
Madrid	1031·0	50	NE	1	ƀ	1034·4	+3	36	+2	N	1	-	ƀ	*	-	50	32
Rome	1029·9	46	-	0	ƀ	1030·0	0	36	-1	N	3	-	ƀ	*	-	*	*
Malta	*	*	*	*	*	1029·7	+1	54	+2	NNE	1	-	0	1	-	59	52

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	15	49	40	r	0	0·0
	Banff	-	55	43	bc.b	b.bc	3·8
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	47	39	bc.c	bc.c.o	1·0
	Skegness	-	48	37	og	o.bc	0·0
Eng., N.W.	Morecambe	-	48	44	o	o	0·0
	Blackpool						
	Southport	-	49	43	o.c	o	0·0
Midlands.	Buxton						
	Leamington Spa	-	48	37	c.bc	bc	4·3
	Malvern	-	48	40	bc	c	2·1
	Ross-on-Wye	-	48	37	bc.c	c	2·5
Wales.	Llandudno	-	52	44	c	c	0·5
	Rhyl	-	50	41	o	o	0·0
	Colwyn Bay	-	51	45	c	bc	0·3
	Aberystwyth	-	48	44	o.c	c.o	0·2
	Tenby	-	49	38	cw	o	0·3

	STATIONS.	Rainfall. mm.§	Temperature Max. °F.	Temperature Min. °F.	Weather Forenoon.	Weather Afternoon.	Sunshine to 6 p.m. Hr.
England, E.	Lowestoft	-	49	37	c.bc	bc.c	4·3
	Felixstowe	-	47	37	bc	bc	4·2
	Walton-on-Naze	-	47	38	bcg	ƀc	o.cg	3·7
	Southend-on-Sea	-	48	38	bz.bc.c	bc.c.o	4·5
England, S.E.	Margate	-	50	37	bc	bc	4·0
	Ramsgate	-	47	34	bc	bc	4·7
	Hastings	-	50	37	b.bc	bc.o	3·4
	Eastbourne	-	49	39	b.bc.o	ov	2·8
	Seaford	-	49	35	ƀ.o	o	2·9
	Brighton	-	50	34	cx.cbc.ƀ	ƀ.bc.c.o	2·5
	Worthing	-	50	32	b.bc	bc	2·3
	Littlehampton	0·2	49	34	bc	o	2·2
	Bognor						
	Southsea	-	50	37	bc	o	1·5
	Bournemouth	-	48	36	bc.o	o	0·9
England, S.W.	Weymouth...	-	50	39	bc.c	c	0·1
	Torquay	-	49	38	o.c	o	0·1
	Paignton						
	Penzance	-	50	40	c	c	0·8
	Newquay	*	48	37	c	c	0·0
	Ilfracombe						
	Weston-super-Mare ...	-	49	37	b.bc.c	c	1·5

LONDON OBSERVATIONS.

STATIONS.	Humidity 3 p.m. Yesterday. %	Humidity 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature (24 hours ended 9 a.m. To-day.) In Screen Max. °F.	In Screen Min. °F.	Min. on Grass. °F.	Rainfall. mm.§	Weather Forenoon.	Weather Afternoon.	Weather Night.
Greenwich (Royal Obsy.) ...	67	83	4·5	49	42	37	-	ƀ	bc.c	o.c
City (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	86	4·3	50	42	36	-	bc	bc	bcu
Camden Sq. (Brit. Rainfall)	64	86	2·8	49	41	38	-	ƀbc	bc.c	*
Hampstead (Reservoir) ...	*	86	4·3	47	41	34	-	bc	bc	cg
Richmond Park ...	*	*	4·5							
Kew. (See front page.)	*	*	4·5							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	83	4·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
377 Joules	42·0 Milliwatts.	20 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.	-	51	46	43	cg	g.c	g.c.o	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	49	39	28	ƀ3.ƀ	ƀ.	ƀ o	*

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

26th & 27th Jan. 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.47 / 7.46	12.6 / 12.6	4.24 / 4.26
Greenwich	7.50 / 7.49	12.13 / 12.13	4.35 / 4.37
Wick	8.34 / 8.32	12.25 / 12.26	4.15 / 4.17
Valencia	8.33 / 8.32	12.54 / 12.54	5.14 / 5.13

NOTES ON YESTERDAY'S WEATHER.

Rather heavy rainfall in the north of Scotland. Further south rainfall was confined to a few showers. The weather was generally cloudy, but over four hours of sunshine were measured on the south-east coast and also at Leamington.

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. 27 — 27th January

	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.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1009·2	38	WNW	3	bc	1016·9	+1	35	-6	-	0	-	b	0	2	46	34	bcq	bcp	bm	*
	Deerness (Orkney)	1010·8	39	W	2	bc	1017·6	*	37	-7	SW	2	-	bc	2	3	44	36	c	c.bc	bc bc	0·6
	Stornoway ...	1012·8	38	WSW	3	bc	1018·2	+2	35	-5	WNW	1	-	b	1	1	43	32	b.odpz	bcd	bdp	0·0
	Castlebay (Barra Isd.)	1013·9	44	W	4	op	1019·4	+2	42	-4	W	3	-	b	3	2	47	38	bc.op	op	og.b	0·0
	Glasgow ...	1015·4	39	NW	1	ogr	1021·8	+9	34	-9	SSW	1	-	bmoce	*	10	45	33	c.ors.p	r	r.ome.b	0·0
	Eskdalemuir ...	1015·4	39	N	2	or	1022·3	+4	30	-10	-	0	N	b	*	1·4	44	29	bc.coc	or	or.bc	0·0
	Malin Head ...	1015·0	45	W	2	omr	1020·5	+9	38	-6	SW	3	W	bc	3	9	48	38	omd	omr	bc	0·0
	Blacksod Point	1015·9	42	NW	2	omd	1020·3	+1	42	-5	S	3	SW	cg	3	6	44	39	omd	omd	bcp	*
	Valencia ...	1016·8	51	S	4	m	1022·7	+1	43	-7	NW	1	W	o	*	4	52	43	m.op	md	d.bc.o	0·0
	Roche's Point	1020·1	50	SW	4	r	1023·3	*	44	-6	NNE	1	-	o	3	2	50	43	md.o	om.b	do	*
	Birr Castle ...	1015·6	51	SW	1	o	1023·8	*	41	-7	S	1	-	o	*	3	52	40	od	od.o	or.o	0·0
	Donaghadee ...	1014·2	43	NNE	4	omr	1021·1	+4	36	-10	WSW	2	W	bom	2	11	46	36	omr	ofr	omr.bc	*
	Liverpool (Bidston)	1017·8	48	?	4	bc	1022·2	+2	42	-6	WNW	1	-	b	2	1	51	41	o	of	lp.c.b	0·0
	Holyhead ...	1017·4	49	SW	6	ogq	1021·9	+3	44	-5	N	4	-	o	3	1	50	44	ogm	ogm	od.o	0·0
	Pembroke (St. Ann's)	1021·3	48	SW	4	o	1022·7	+1	47	-1	NNW	1	NW	cp	3	3	49	46	cq	c.bc.c	cpdm	2·5
	Scilly (St. Mary's)	1023·1	48	WSW	4	c	1024·0	0	50	+1	WSW	4	-	ome	5	2	51	47	om	cmp	comfe	0·0
	Falmouth ...	1023·5	48	WSW	4	bc	1024·5	0	49	+4	WSW	4	-	oe	*	1	51	45	obcod	od.c	bcde	0·2
	Jersey (St. Aubin)	1026·9	50	SW	3	o	1026·4	*	48	-1	WSW	4	SW	c	3	1	51	47	od.ofe	oe.dp.o	oc	0·0
	Portland Bill ...	1024·2	50	SW	4	cr	1024·2	0	49	+1	WSW	4	W	odp	3	3	50	48	c.bc	bc.cr	r.c.bc.o	*
	Dungeness ...	1023·8	46	WSW	3	bc	1023·4	0	48	+3	WSW	4	-	o	4	-	48	45	bc	bc	bc.c.o	*
	Dover						1023·9	+1	47	+4	SW	4	SW	o	2	0·1	50	41			opc.o	3·2
	Wick	1012·4	40	WSW	1	o	1018·3	+2	33	-7	WSW	2	-	b	2	-	45	32	bc	bc.om	bcx	*
	Nairn	1013·7	40	W	1	og	1019·9	*	34	-6	W	1	-	bc	2	1	45	33	dg.o	odg	c.bcx	1·0
	Aberdeen ...	1014·2	43	SW	1	ozp	1020·5	+3	34	-8	SW	3	-	b	2	0·2	46	33	bc.oz	oz	ozp.b	0·7
	Leith	1014·9	41	W	1	r	1020·3	+3	35	-9	NW	1	NW	bc	?	7	48	34	c.or.o	r	r.o.bg	*
	Tynemouth ...	1015·0	44	-	0	omd	1020·6	+4	40	-7	NW	2	-	om	3	6	49	37	om	om	omr	*
	Spurn Head ...	1019·3	46	W	4	o	1020·6	+4	42	-4	NNE	4	-	bcq	5	-	47	41	bc.o	oq	bcq	1·0
	Yarmouth ...	1021·2	46	SW	3	o	1020·4	+1	46	+5	WSW	3	-	o	3	-	52	41	bc.b	bc.b.om	bcm	3·3
	Clacton-on-Sea	1023·3	46	SW	2	c	1022·2	0	45	+1	WSW	2	W	bc	2	-	50	43	c.bc	bc.c	c.bc	3·9
	Nottingham ...	1020·0	48	SW	4	c	1021·4	*	45	+1	NW	2	NW	d	*	0·4	50	41	bc.o	o.c	c.ob	0·1
	Benson (Oxon.) ...	1023·5	46	SSW	2	bc	1023·0	+1	45	+2	SW	3	-	o	*	-	48	43	o	o.c	bc	*
	Sth Farnborough	1023·6	46	SW	2	c	1022·8	0	47	+8	WSW	4	-	o	*	-	50	39	b.bc.ov	o.c	c.o	1·6
	London (Kew Obsy.)	1023·7	48	SW	3	o	1023·3	+1	47	+2	WSW	2	-	o	*	-	50	44	c.om.o	o	o.c.o	0·4
NORTHERN EUROPE.	Spitsbergen ...	972·2	18	-	0	o	997·6	+5	18	+18	-	0	*	o	*	*	19	-1				
	Vardö	970·6	27	SSW	1	o	974·7	+3	23	-4	WSW	2	-	b	3	*	27	23				
	Bodö	981·1	36	SW	4	o	997·0	+11	34	-2	W	6	-	bc	4	?	36	30				
	Christiansund	999·5	36	NW	7	s	1012·8	+6	36	-7	NW	3	-	s	6	5	43	34				
	Skudesnaes ..	1009·7	39	W	6	o	1016·7	+3	34	-7	NNE	2	-	b	3	trace	43	34				
	Færder (X'iania Fjord)	1004·4	41	W	6	b	1013·1	+5	36	-5	W	2	-	b	3	-	43	36				
	The Scaw (Skagen)	1010·3	41	W	6	b	1012·4	0	36	-7	NW	3	-	b	3	-	45	36				
	Blaavands Huk	1017·0	41	W	2	o	1017·2	+1	37	-6	NNE	1	-	r	1	8	43	36				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby																					
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1022·6	45	SSW	4	o	1019·1	-1	45	0	SW	4	-	o	3	-	45	45				
	C. Gris Nez ...	1024·4	46	SW	4	bc	1023·5	0	48	+2	SW	4	*	o	4	1	46	45				
	La Hève	1025·7	48	WSW	2	f	1026·1	*	46	0	WSW	3	*	bc	3	1	48	43				
	Brest (St. Mathieu)	1027·5	50	SSW	4	o	1027·4	0	50	0	WSW	3	*	m	5	-	52	48				
	Rochefort (Ile d'Aix)	1029·5	49	NW	2	b	1029·2	0	41	-1	SE	3	*	o	*	? trace	55	41				
	Biarritz	1027·8	45	ENE	1	f	1028·2	0	41	0	-	0	*	m	3	-	50	39				
	Paris	1028·2	48	-	0	bc	1027·8	0	45	+4	SW	2	-	o	*	1	50	41				
	Belfort							*					*		*	-						
	Lyons							*					*		*							
	Nice												*									
	Perpignan ...	1028·6	43	-	0	bc	1027·9	0	36	0	W	1	-	m	*	-	52	34				
	Sanguinaire ...	*	58	E	2	o	*	*	54	+4	E	3	*	o	2	-	59	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1028·2	52	NNE	2	bc	1027·8	0	41	0	E	3	-	f	4	-	54	41				
	Madrid (8 a.m.)	?	55	-	0	b	1031·3	+2	34	-2	-	0	-	m	*	-	55	34				
	Lisbon (9 a.m.)	1024·2	57	N	3	b	1024·6	0	45	0	N	2	-	b	6	-	59	45				
	Gibraltar	1024·7	56	E	4	b	1024·4	*	56	0	E	4	*	c	3	-	59	55				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1025·7	+2	54	+6	ESE	2	SE	c	2	-	57	48				
	Azores (Horta, 8 a.m.)	1026·4	*	SW	2	o							*									
	Madeira (Funchal)	1022·6	61	SE	2	c	1023·3	0	55	0	SE	2	-	bc	2	-	63	55				

South Farnborough: 27th Jan. 1916 7·35 a.m.
Pilot Balloon Ascent.

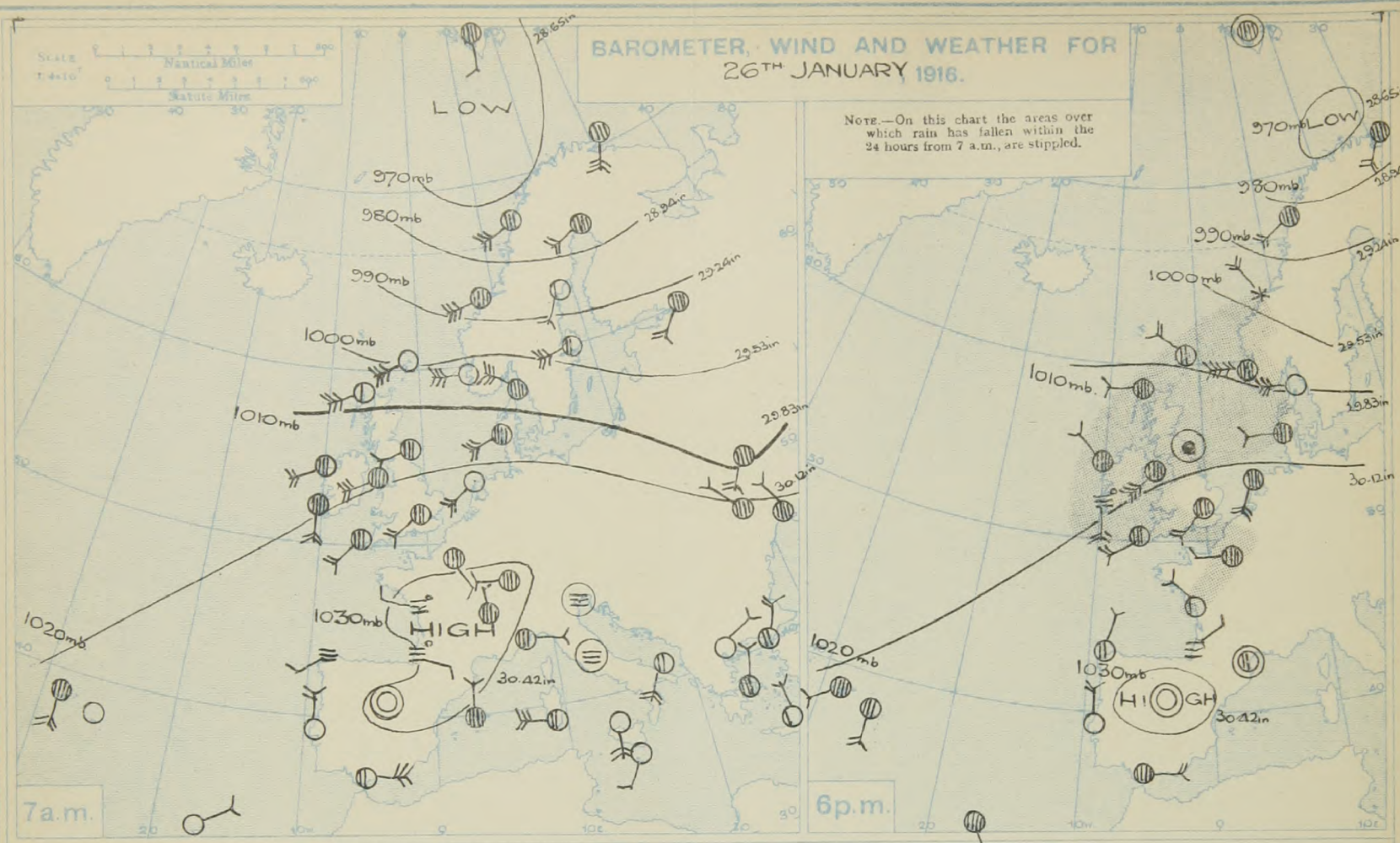
500 metres. W by S. 30 miles per hour.

RAINFALL.

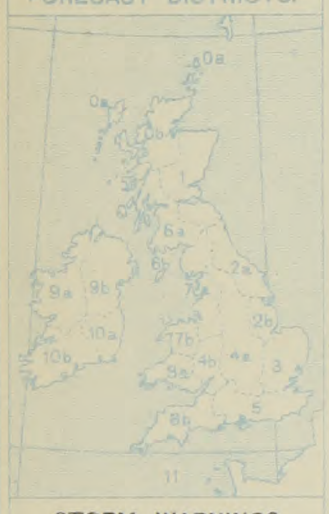
Equivalents of Millimetres in Inches.

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 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.

Western Channel and Bay

0 a, b; 1; 2 a, b — Light variable Westerly winds; fair, some showers; temperature normal.

3 — Moderate Westerly winds, then decreasing; dull, occasional slight rain; mild.

4 a, b — Light variable Westerly winds; dull, occasional slight rain; mild.

5 — Same as No. 3.

6 a, b — Same as Nos. 0 to 2.

7 a, b; 8 a, b — Same as No. 4.

9 a, b; 10 a, b — Moderate South-Westerly winds; sea moderate; dull, misty, with slight rain.

11

FURTHER OUTLOOK.

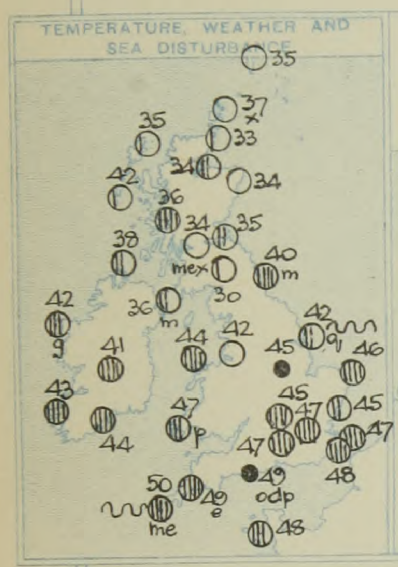
R. G. K. LEMPFERT, Superintendent, Forecast Division

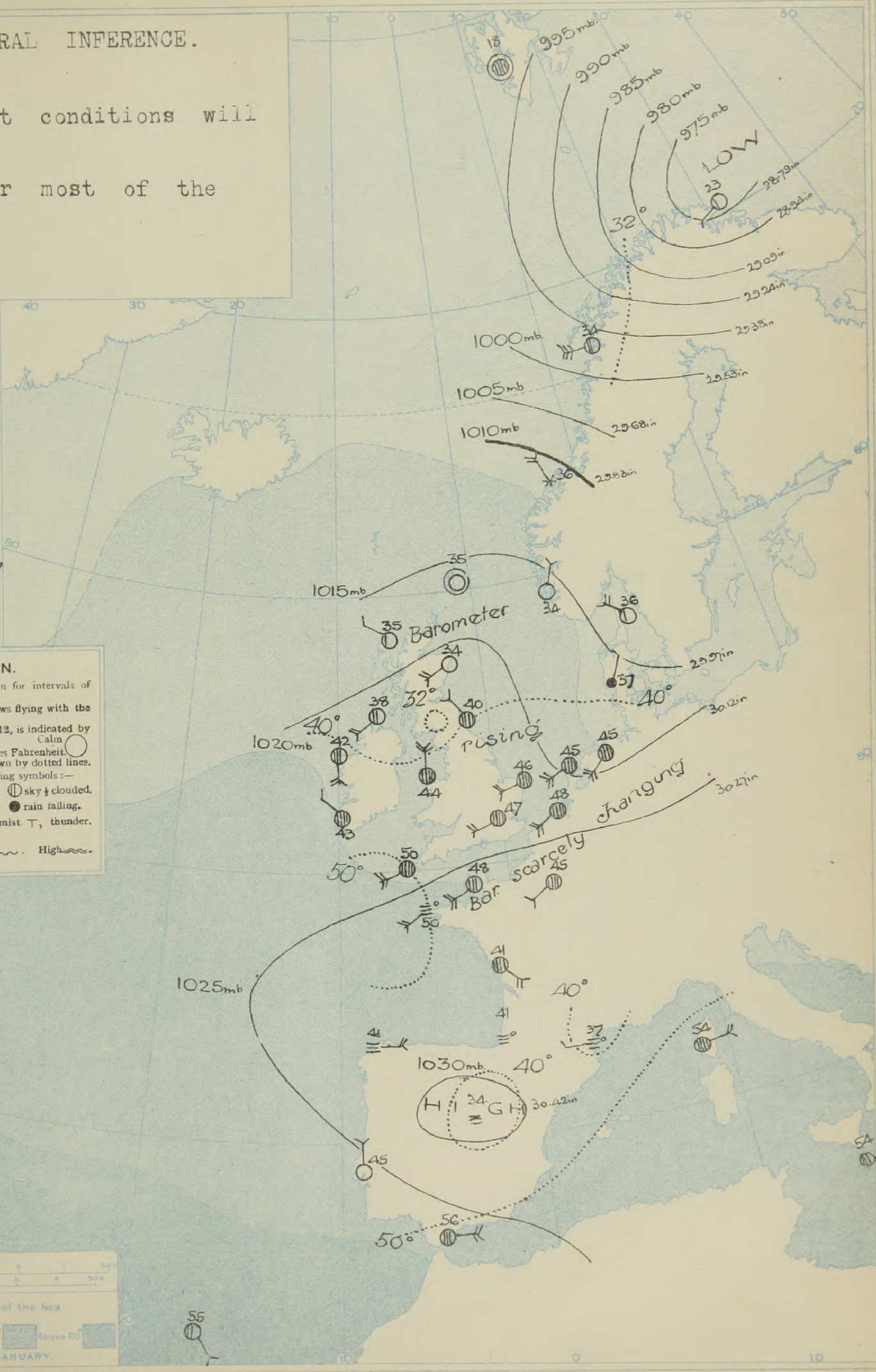
NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 27TH JANUARY, 1916.

GENERAL INFERENCE.

Quiet conditions will prevail over most of the country.





EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∼∼. High ≈≈.

Scale 1:12×10⁷
Nautical Miles
Statute Miles

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

Issue No. 19,789

DAILY WEATHER REPORT.

Thursday, 27th January 1916.

REPORTS FOR YESTERDAY.

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Rome	1028·5	45	-	0	b	1028·4	0	34	-2	-	0	-	f	*	-	*	*
Horta	1023·5	*	S	5	0	1021·7	0	59	0	S	4	*	0	3	-	63	57

26th January, 1916

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	46	43	o	r. o	0·0
	Banff	-	46	38	b	b.bc.o	2.6
	St. Andrews	-	47	40	*	*	0·0
Eng. N.E.	Harrogate	1	49	45	o	o. c	0·0
	Skegness	-	51	39	b.bc	bc. c	2.3
Eng. N.W.	Morecambe	2	47	46	od	d. o	0·0
	Blackpool						
	Southport	0·3	51	47	od	o.c.o	0·0
Midlands.	Buxton						
	Leamington Spa	-	49	42	c.bc	c.bc	0·3
	Malvern						
	Ross-on-Wye	-	49	44	c	c	0·1
Wales.	Llandudno	-	53	47	c	c.b	1·3
	Rhyl	-	51	42			0·1
	Colwyn Bay	-	51	49	b	bc	0·5
	Aberystwyth	1	49	46	r.o.c	c.o	0·1
	Tenby	-	51	47	bc	bc	1·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	52	41	c b	bc c	4·4
	Felixstowe	-	50	38	bc	bc om	3·3
	Walton-on-Naze	-	49	42	bg bc	bc.b	2·9
	Southend-on-Sea	-	52	41	bc c.o	o.c.bc.b	3.0
England, S.E.	Margate	-	53	41	b	b	5·5
	Ramsgate	-	52	42	bc	bc	6·1
	Hastings	-	51	44	o.bc	b.bc	2·9
	Eastbourne	1	51	45	o	o.b.bc	3·3
	Seaford	-	50	45	c	b	3·5
	Brighton	-	51	45	o bc.bc	c o c.bc	3·9
	Worthing	-	51	44	bc	bc	3·6
	Littlehampton	-	49	45	bc b	b.bc	2·4
	Bognor	0·3	50	45	o.bc	bc	4·0
	Southsea	-	53	44	bc	bc	3·0
	Bournemouth	1	51	37	b	bc or	2·5
England, S.W.	Weymouth...	0·1	54	45	bc	c or	0·7
	Torquay	0·0	52	43	o	o	0·5
	Paignton						
	Penzance	1	52	45	c	cp r.b	0·2
	Newquay	*	51	42	c.o	o	0·3
	Ilfracombe						
	Weston-super-Mare ...	-	50	39	c.c	bc	0·5

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.) ...	77	88	0·1	50	45	41	-	c. o	c. o	o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	81	90	0·3	51	45	40	-	bc	o bc	oc.
Camden Sq. (Brit. Rainfall)	78	88	0·1	51	45	40	-	bc. c	o	*
Hampstead (Reservoir) ...	*	93	0·0	47	43	36	-	o	o	om.o
Richmond Park ...	*	*	0·3							
Kew. (See front page.)	*	*	0·4							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	88	0·3							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
251 Joules	8·0 Milliwatts.	31 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.	Trace	54	48	45	q. c	c	c.op	*
Darwen to 9 p.m.	2	48	44	41	ocd	ocd	ocd	0·0
Manchester ,,	1	52	46	*	oc	o	o c.o	0·1
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	1	52	41	34	c.bcp	c	c	0·4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	51	44	37	o	o.c	o	*

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

27th & 28th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·46 / 7·44	12·6 / 12·6	4·26 / 4·28
Greenwich	7·49 / 7·47	12·13 / 12·13	4·37 / 4·39
Wick	8·32 / 8·30	12·35 / 12·35	4·17 / 4·19
Valencia	8·32 / 8·32	12·54 / 12·54	5·16 / 5·18

NOTES ON YESTERDAY'S WEATHER.

Day temperature rose to 50° at many places. Rain fell in most districts, fairly heavily in the north. Sunshine was variable, from zero at many stations to 6·1 hours at Ramsgate.

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. 28 — 28th January

	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 ...	1021·0	41	SW	3	b	1019·0	-1	42	+7	SSW	4	S	bc	3	1	44	34	bcp	bc	bc	*
	Deerness (Orkney)	1021·7	39	SSW	2	b	1017·6	*	40	+3	S	4	.	bc	4	-	40	38	bc	b	b.bc	6.2
	Stornoway ...	1019·9	42	SW	2	cp	1013·7	-4	43	+8	S	6	-	oq	5	3	44	34	rp	bccp	c.opq	5.0
	Castlebay (Barra Isd.)	1020·7	44	S.S.W	2	b	1013·1	-7	46	+4	SE	6	-	r	6	2	47	40	bhpcw	c.bcb	bcr.oc	5.5
	Glasgow ...	1025·1	36	E	1	m	1021·4	-3	35	+1	E	1	-	o	*	0.3	39	30	m	m.cm	mcbop	0.0
	Eskdalemuir ...	1025·9	35	-	0	b	1023·2	-3	35	+5	S.SE	2	W	o	*	-	37	28	bbcco	o.c.bc	bc.c.o	0.0
	Malin Head ...	1022·3	41	SW	3	bc	1013·0	-3	42	+4	S	6	SW	bcq	5	-	50	36	bc	bc	bcq	5.7
	Blacksod Point	1021·3	43	S	3	cq	1008·6	-7	48	+6	SSW	6	SW	cmp	4	4	49	39	bc	bc	bc.cmp	*
	Valencia ...	1022·6	47	S.S.E	1	c	1016·6	0	51	+8	S	5	SW	o	*	3	51	42	bc	c	oop	
	Roche's Point	1024·7	46	ESE	2	o	1021·3	*	49	+5	S.S.W	4	-	r	4	2	49	43	op.c.o	odo	d.f.oc	*
	Birr Castle ...	1024·0	41	SSE	1	bc	1017·5	*	49	+8	SW	3	.	o	*	-	49	37	c	bc	c.o	4.8
	Donaghadee ...	1024·1	40	S	2	bcm	1018·6	-3	45	+9	S	4	-	ogmp	3	0.2	46	35	bcm	bcm	bcm.oq	*
	Liverpool (Bidston)	1026·0	43	-	0	o	1024·1	+1	43	+1	SE	2	E	bcm	1	-	45	39	b.o	oq	o.cm	2.6
	Holyhead ...	1025·9	45	E	2	om	1022·1	-2	47	+3	SSW	5	-	omc	4	Trace	47	39	om	c.om	abbc.o	0.1
	Pembroke (St. Ann's)	1024·5	47	E	1	op	1024·1	0	47	0	S	4	-	fd	3	0.4	48	45	opd	opdc	fd	0.0
	Scilly (St. Mary's)	1025·5	49	WSW	2	fe	1025·2	0	49	-1	S	3	SW	c	5	1	52	46	ombcm	omfe	fdomc	0.3
	Falmouth ...	1026·0	50	WSW	2	odm	1026·2	0	47	-2	WSW	3	-	oe	*	1	53	46	o	c.od	omeoe	0.3
	Jersey (St. Aubin)	1027·6	50	SW	3	oq	1027·9	*	49	+1	SW	2	-	oge	2	1	51	47	c.o	oq	ogdoe	0.0
	Portland Bill ...	1025·5	50	SW	3	om	1027·0	0	49	0	WSW	3	-	o	3	-	51	48	bc	om	fom	*
	Dungeness ...	1025·9	47	SW	3	fe	1026·9	0	47	-1	SW	3	-	om	3	1	49	46	o c.o	o fe	fe.o fe	*
	Dover	1026·6	49	SW	2	m	1027·6	0	47	0	SW	1	SW	bz	2	0.1	51	46	o.c	c	oe.bz	0.0
	Wick	1022·1	36	WSW	2	b	1017·5	-4	40	+7	SW	3	-	bc	3	-	41	33	bc	b	bx	*
	Nairn	1022·9	32	-	0	bx	1017·7	*	38	+4	W	1	-	cq	2	0.3	40	29	bc.b	b	b.bcx	6.1
	Aberdeen ...	1024·4	37	SSW	3	bz	1021·4	-1	36	+2	S	2	-	caz	2	-	41	32	bz	bc.c.bz	bz.bcx	3.1
	Leith	1024·8	37	E	1	c	1021·6	-2	35	0	E	1	E	c	2	-	40	32	bc.o c	c.bc	cm.c	*
	Tynemouth ...	1025·2	41	NNW	1	ogm	1024·3	-2	40	0	SSW	2	-	cgm	2	-	41	38	omg	omg	cgm	*
	Spurn Head ...	1026·6	42	-	0	om	1027·4	0	42	0	S	1	-	om	2	-	44	40	cq	cq o	c.om	0.0
	Yarmouth ...	1026·6	42	NNE	2	bc	1027·3	0	43	-3	SSE	2	-	cm	2	-	47	42	bcm	o.bc	omd	0.0
	Clacton-on-Sea	1026·0	44	ENE	2	o	1026·7	0	45	0	W	1	-	m	1	1	48	43	ogdm	ogmd	ogmfn	0.0
	Nottingham ...	1026·2	43	SSE	1	o	1026·1	*	42	-3	SE	1	SE	o	*	0.1	45	41	d.om	om	oe	0.0
	Benson (Oxon.) ...	1025·2	49	SW	1	o	1026·9	0	47	+2	SW	2	-	oge	*	2	51	45	o	o	oep	*
	Sth Farnborough	1025·2	50	WSW	1	o	1026·7	+1	47	0	-	0	-	om	*	0.3	52	46	od.o	o.c.o	od.o	0.1
	London (Kew Obsy.)	1025·6	51	W	2	od	1027·2	+1	49	+2	WSW	1	-	om	*	1	53	47	odo	omod	odrom	0.0
NORTHERN EUROPE.	Spitsbergen ...	997·6	10	W	2	o	986·6	-2	10	-8	-	0	*	o	*	*	18	9				
	Vardö	968·6	34	NW	7	o	996·7	+3	30	+7	NW	6	-	o	4	*	34	19				
	Bodö	1012·2	34	W	5	o	1008·4	0	39	+5	SW	6	-	r	3	8	34	32				
	Christiansund	1020·7	37	WSW	4	c	1020·7	0	39	+3	SSW	1	-	b	4	1	37	36				
	Skudesnaes ..	1025·7	32	-	0	b	1026·7	0	34	0	SE	3	-	b	2	-	37	30				
	Færder (X'iania Fjord)	1023·0	34	-	0	b	1027·9	+1	27	-9	N	1	-	b	1	-	37	27				
	The Scaw (Skagen)	1023·3	36	NNE	2	b	1028·2	0	30	-6	SW	1	-	b	1	-	43	28				
	Blaavands Huk	1025·5	37	NW	1	b	1029·3	0	32	-5	NE	1	-	b	0	1	41	30				
	Haparanda ...	998·4	28	WNW	6	b	1010·9	+1	21	-4	WSW	2	-	o	*	-	32	19				
	Hernösand ...	1011·8	34	WNW	4	b	1020·6	+1	32	-2	WNW	2	-	b	*	-	39	30				
	Stockholm ...	1016·2	32	W	2	b	1024·2	+2	25	-7	WSW	2	-	b	*	-	36	25				
	Wisby	1018·0	34	WNW	6	b	1026·0	+2	32	-4	NNW	4	-	b	4	-	36	32				
	Karlstad	1021·7	28	NW	2	b	1028·3	+3	14	-16	-	0	-	b	*	-	36	14				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1026·0	43	NE	3	o	1028·2	+1	37	-8	SE	1	-	o	1	Trace	46	37				
	C. Gris Nez ...	1025·6	48	SW	3	f	1026·9	0	47	-1	SW	4	*	f	2	2	48	47				
	La Hève	1025·9	46	SW	2	f	1025·6	*	46	0	SW	1	*	f	2	1	48	43				
	Brest (St. Mathieu)	1028·4	50	SW	2	m	1029·1	+1	50	0	SSE	1	*	o	3	-	52	48				
	Rochefort (Ile d'Aix)	1029·2	47	NW	1	c	1028·4	0	47	+6	ENE	2	*	o	*	-	50	41				
	Biarritz	1027·7	44	E	2	m	1027·3	0	39	-2	E	3	*	m	3	-	46	37				
	Paris	1028·4	48	SW	1	o	1029·0	+1	43	-2	-	0	-	o	*	-	55	43				
	Belfort	1030·1	43	W	3	o	1030·4	*	37	-2	-	0	*	c	*	?	46	36				
	Lyons	1029·2	45	N	1	o	1029·1	*	38	+6	-	0	*	o	*	-	47	38				
	Nice	1027·0	46	-	0	o	1027·0	0	43	+2	E	2	*	c	2	-	54	41				
	Perpignan ...	1026·6	41	-	0	b	1026·9	0	34	-2	-	0	-	m	*	-	54	34				
	Sanguinaire ...	*	52	E	2	o	*	*	37	-3	E	2	*	o	1	-	57	50				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1025·6	54	NNW	2	b	1026·0	0	41	0	S	1	-	b	2	-	54	39				
	Madrid (8 a.m.)	1026·7	48	SW	1	bc	1028·7	+1	34	0	-	0	-	m	*	-	48	32				
	Lisbon (9 a.m.)	1024·2	54	SE	1	b	1025·2	0	48	+3	WSW	1	-	b	5	-	57	46				
	Gibraltar	1025·0	57	E	4	bc	1024·7	*	57	+1	E	4	*	r	2	Trace	59	55				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1024·0	0	55	+1	E	4	SW	c	2	-	59	54				
	Azores (Horta, 8 a.m.)†	1023·5	*	-	0	o	1020·0	-1	52	-2	W	3	*	bc	1	-	57	50				
	Madeira (Funchal)	1023·1	63	NE	2	o	1025·1	+1	57	+2	SE	2	-	r	2	Trace	66	57				

South Farnborough: 28th Jan. 7.30 a.m.

Pilot Balloon Ascent

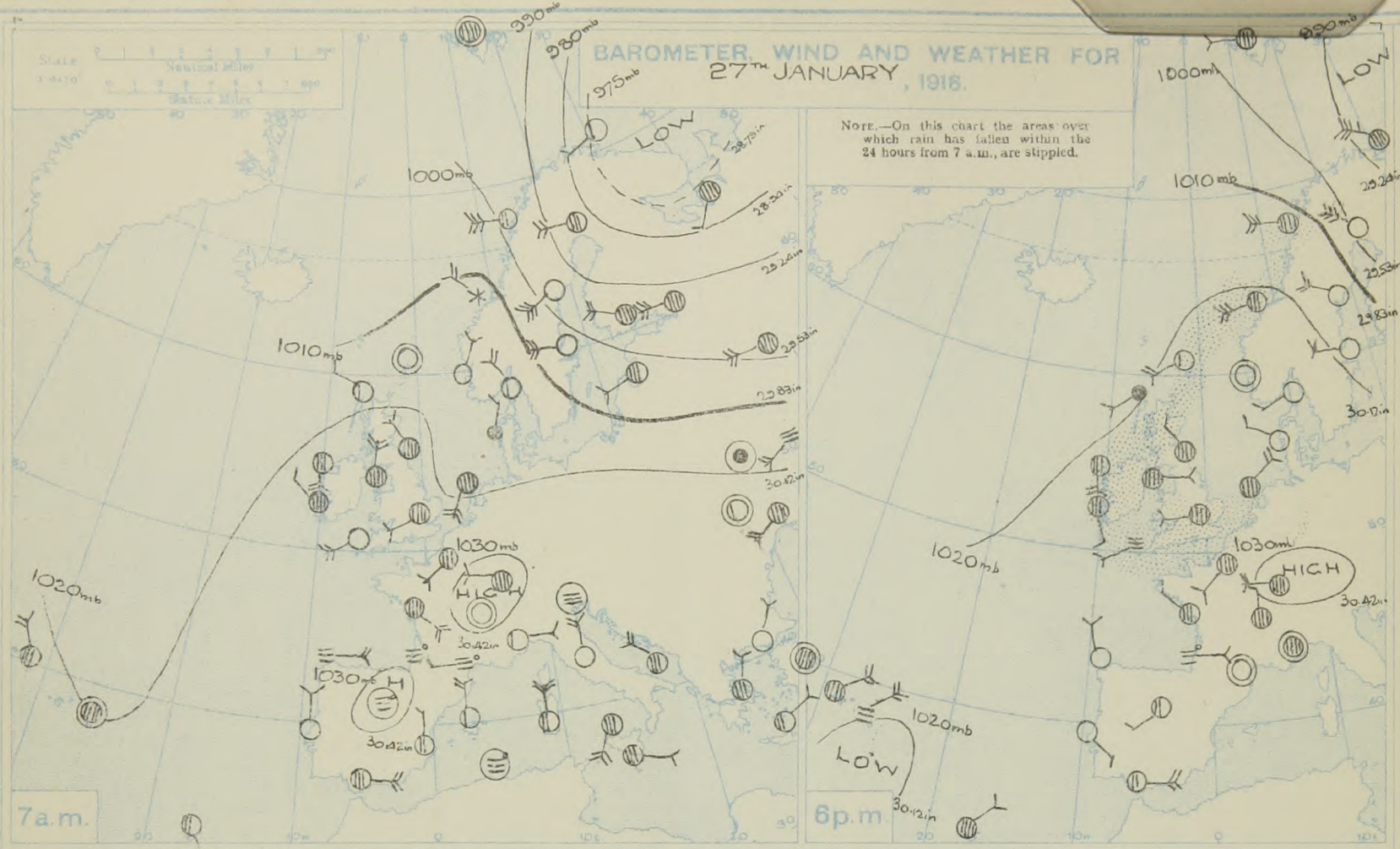
500 metres. W. 13 miles per hour.

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.

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 8.20 a.m. in Dists. 1, 6 & 9.

0 (a, b), 1 — Moderate Southerly winds, becoming fresh or strong; dull, some rain; mild.

2 (a, b), 3, 4 (a, b), 5 — Light South-Westerly, freshening; dull, some rain later; mild.

6 (a, b), 7 (a, b) — Strong Southerly winds or gales; dull, some rain; mild.

8 (a, b) — Same as Nos. 2b to 5.

9 (a, b) — Same as Nos. 6 and 7.

10 (a, b) — Fresh or strong South-Westerly winds; dull, some rain; mild.

Western Channel and Bay 11 — Moderate South-Westerly winds freshening; sea rough; dull, some rain later.

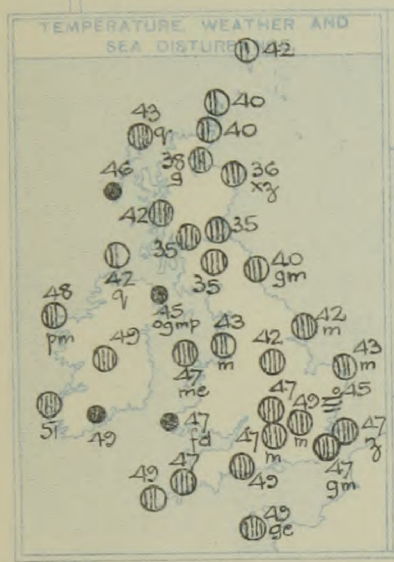
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 28 JANUARY, 1916.

GENERAL INFERENCE.

The influence of the depression approaching the north of Ireland will spread over the whole country, but will be felt chiefly in the north.



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 JANUARY.

Inches
31
30
29

Issue No. 19,790

DAILY WEATHER REPORT.

Friday, 28th January 1916.

REPORTS FOR YESTERDAY.

27th January 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	991.1	36	W	3	0	990.4	0	34		W	5	-	0	*	-	37	34
Haparanda	977.9	21	W	2	8	983.1	+5	25	-2	W	4	-	c	*	-	28	16
Hernosand	986.1	39	SSW	6	8	997.6	+3	34	-3	SW	6	-	8	*	-	41	32
Stockholm	997.3	41	W	6	8	1006.0	+4	32	-9	W	4	-	8	*	-	43	32
Wisby	1005.1	37	WSW	4	8	1009.1	+3	36	-5	WNW	4	W	8	4	-	41	34
Karlstad	1001.3	41	WSW	4	8	1010.6	+4	30	-11	W	4	-	8	*	-	43	25
Belfort	1030.3	43	–	0	0	1030.4	*	39	-3	W	2	*	0	*	-	46	37
Lyons	1030.1	46	NNW	1	0	1031.4	*	32	-10	–	0	*	8	*	-	51	30
Nice	1028.0	43	E	2	8	1027.3	0	41	-1	E	2	*	8	1	-	54	39
Rome	1026.0	45	N	3	8c	1027.3	0	34	0	N	3	*	8	*	-	*	*
Horta						1021.6	0	54	-5	NNE	5	*	8c	3	6	61	54

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	7	45	34	p.bc	b	1.6
	Banff	–	43	32	b	b.bc	4.7
	St. Andrews				*	*	
Eng. N.E.	Harrogate	1	42	38	o	o	0.0
	Skegness	–	44	41	og	ogu	0.0
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	1	44	38	b.bc.c.o	o.bc.c.o	2.8
Midlands.	Buxton	2	43	37	bc	o	0.0
	Leamington Spa	1	45	44	ofd	ofd	0.0
	Malvern	2	43	42	d.o	om	0.0
	Ross-on-Wye	–	50	43	cg.o	o.c.	0.0
Wales.	Llandudno	10	50	40	c	c	0.1
	Rhyl	1	46	42	p.c	bc	0.8
	Colwyn Bay	5	46	41	bc	bc	0.1
	Aberystwyth	2	47	43	n.o.c	c.o	0.0
	Tenby	3	49	46	·o	bc.or	0.0

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England. E.	Lowestoft	–	47	42	ofe	o.c.o	0.0
	Felixstowe	–	48	42	om	om	0.0
	Walton-on-Naze	-	48	43	ocm.oc	o.cmg	0.0
	Southend-on-Sea	1	49	44	od.r	o	0.0
England. S.E.	Margate	0.1	51	44	o	od	0.0
	Ramsgate	–	50	43	cd	d.o	0.0
	Hastings	1	50	46	op.o	f.m	0.0
	Eastbourne	0.3	50	47	o	odm	0.0
	Seaford	-	49	44	o	om	0.0
	Brighton	0.4	48	46	o.of	of ofe	0.0
	Worthing	1	49	47	o	o	0.0
	Littlehampton	1	49	45	o	o	0.0
	Bognor	1	50	47	oe	oe	0.0
	Southsea	0.3	51	46	o	o	0.0
	Bournemouth	–	52	44	o	o	0.0
England. S.W.	Weymouth	–	54	49	o	o.c.o	0.2
	Torquay	0.2	52	48	o	o	0.0
	Paignton	-	54	47	o.c	c	0.0
	Penzance	1	53	47	ome	om	0.0
	Newquay	*	52	45	o.cd	odm	0.0
	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. °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.)	88	93	0.0	52	46	45	1	o	o	oe.od
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	93	0.0	52	48	45	1	od	oe.od	oe
Camden Sq. (Brit. Rainfall)	83	94	0.0	52	46	45	2	o	o	*
Hampstead (Reservoir)	*	97	0.0	50	45	42	2	o	o	omed
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	89	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
138 Joules	44 Milliwatts.	10 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	45	40	36	r.bc	c	c.o	*
Darwen to 9 p.m.	3	47	36	31	our	ou.bc	bc.o	12
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	52	47	40	o	o	od.om	*

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

28th & 29th January 1916.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7. 44 / 7. 42	12. 6 / 12. 6	4. 28 / 4. 30
Greenwich	7. 47 / 7. 46	12. 13 / 12. 13	4. 39 / 4. 41
Wick	8. 30 / 8. 28	12. 25 / 12. 25	4. 19 / 4. 22
Valencia	8. 30 / 8. 28	12. 34 / 12. 34	3. 18 / 3. 20

NOTES ON YESTERDAY'S WEATHER.

Weather was showery, but the measurements of rain were slight in all districts. Much sunshine was measured in the extreme north, elsewhere there was little or none.

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; 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 1 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1916. No. 29 [29th January]

	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 ...	1011·8	44	S	5	om	1012·3	0	44	+2	S	3	-	b	3	2	45	44	bc.om	omd	bc	*
	Deerness (Orkney)	1010·1	44	S	6	ou	1011·5	*	44	+4	S	5	-	o	4	1	44	41	bc.cou	ou.ou	o	0·0
	Stornoway ...	1008·7	47	SW	6	cpq	1007·0	-4	48	+5	SSW	7	-	odrq	6	3	48	42	op.orq	ou.cpq	c.odrq	0·0
	Castlebay (Barra Isd.)	1010·9	49	SSW	5	bc	1009·0	-1	49	+3	S	6	-	og	6	3	49	44	r	r.o.bc	c.og	0·2
	Glasgow ...	1016·9	46	SW	2	c	1016·8	0	47	+12	SW	3	-	og	*	2	49	35	omdp	c	om.op	0·1
	Eskdalemuir ...	1018·6	44	SSW	5	orm	1019·8	0	44	+9	SSW	6	-	od	*	20	45	34	om.ou	ofe.ou	ou.mou	0·0
	Malin Head ...	1013·5	46	SW	6	cq	1010·7	-2	48	+6	SW	5	SW	oqr	5	-	48	42	cq	cq	bcq.b	1·1
	Blacksod Point	1012·5	47	SSW	6	cm	1008·8	0	48	0	SSW	8	SW	omq.p	5	3	49	41	cm	cmp	omq.p	*
	Valencia ...	1016·4	50	S	3	c	1013·1	-2	50	-1	SSE	5	SW	c	*	1	52	48	bc.b	bc	ou.o.c	5·4
	Roche's Point	1020·9	49	SSW	4	o	1019·8	*	49	0	S	5	-	o	5	4	50	48	d.rm	dmr	op.o	*
	Birr Castle ...	1017·5	50	S	1	c	1015·9	*	49	0	S	5	-	o	*	1	52	49	od.c	c	op.o	0·2
	Donaghadee ...	1016·6	47	SSW	3	bcmp	1016·5	+1	48	+3	SSW	4	-	cm	3	1	51	45	omp.d	bcm	ogm.cm	*
	Liverpool (Bidston)	1022·7	49	S	3	c	1023·1	0	48	+5	SSE	1	-	o	1	-	51	43	o.bc	o.c	o	0·6
	Holyhead ...	1020·6	49	SW	6	ome	1021·0	0	48	+1	S	5	-	o	4	2	50	47	ofd.op	op.r.p.o	op.doc	0·0
	Pembroke (St. Ann's)	1023·4	49	SW	4	cq	1022·7	0	48	+1	SSW	4	SW	cq	?	-	49	47	c	c	o.cq	0·0
	Scilly (St. Mary's)	1024·2	50	S	4	om	1022·6	-2	49	0	SSE	4	S	c	5	-	52	48	c.bc	bc.om	om.c.bc	4·1
	Falmouth ...	1025·4	48	S	2	bc	1024·3	-1	46	-1	S	3	-	b	*	-	52	46	oe	c.bc.c	bc.b	1·9
	Jersey (St. Aubin)	1028·2	48	SW	1	bme	1027·3	*	43	-6	NE	1	-	bm	1	Trace	51	40	c.ofe	fe.bcm	fe.bmo	0·3
	Portland Bill ...	1027·5	49	SW	3	c	1027·5	0	47	-2	SSE	1	S	bc	3	0·2	50	46	of	o.c	c.abef	*
	Dungeness ...	1027·5	48	SW	2	f	1027·8	0	47	0	SW	2	-	o	2	-	49	46	om	om.f	of.o	*
	Dover ...	1028·1	48	W	1	m	1028·9	0	45	-2	SW	2	-	o	2	-	51	45	g.o.c	c.of	og.o	0·1
	Wick ...	1011·0	43	S	4	c	1012·0	-2	45	+5	S	3	-	o	4	-	45	40	bc.om	om.cmg	bc.omg	*
	Nairn ...	1012·4	47	SSW	2	bcm	1012·4	*	43	+5	-	0	-	bc	1	0·2	48	38	cm	cq.bcm	bc	1·2
	Aberdeen ...	1015·6	45	S	2	om	1015·6	0	46	+10	SSE	3	-	om	2	-	46	36	om	omp	om	0·0
	Leith ...	1017·9	47	W	1	c	1016·2	-1	49	+14	WSW	2	SW	c	2	-	50	35	c.oe.c	c.o.bc	b	*
	Tynemouth ...	1020·0	49	SSW	3	cmg	1020·3	0	48	+8	SSW	3	-	cm	3	-	49	40	cm	cm	cm	*
	Spurn Head ...	1024·9	44	SW	3	f	1024·9	0	46	+4	SW	4	-	cq	4	-	46	40	c.of	of	f.om	0·5
	Yarmouth ...	1026·3	43	S	2	o	1027·6	0	42	-1	SSW	2	-	f	2	-	46	41	cm	of	of	0·0
	Clacton-on-Sea	1027·8	45	-	0	o	1028·3	0	44	-1	W	2	-	f	1	-	47	43	ogm	ogm	ogm.f	0·0
	Nottingham ...	1025·2	50	SSW	2	o	1025·1	*	43	+1	SSW	2	SW	b	*	-	51	42	om	om	o.c	0·0
	Benson (Oxon.) ...	1027·0	49	SW	1	c	1027·7	0	45	-2	SSW	2	-	o	*	-	51	42	o	c	c	*
	Sth Farnborough	1026·9	50	SSW	2	o	1027·5	0	45	-2	S	2	-	om	*	0·1	51	44	m.o	o	om	0·0
	London (Kew Obsy.)	1027·5	51	SW	2	om	1028·1	0	47	+2	S	1	-	om	*	Trace	53	44	omd.om	o.om	om	0·0
Northern Europe.	Spitsbergen ...	990·4	7	SSE	2	o	996·0	0	9	-1	-	0	*	o	*	*	10	1				
	Vardö ...	997·7	30	W	3	o	1002·0	0	34	+4	NW	7	-	o	5	*	34	19				
	Bodö ...	1011·3	39	SW	6	o	1011·1	0	39	0	SSW	6	-	b	3	-	39	37				
	Christiansund	1018·4	36	-	0	b	1015·3	0	41	+2	-	0	-	r	4	-	41	36				
	Skudesnaes ..	1023·9	39	SSE	4	o	1021·0	-2	39	+5	SSE	7	-	m	5	3	37	34				
	Færder (X'iania Fjord)	1028·0	28	WSW	1	b	1026·6	0	37	+10	SSW	5	-	o	3	-	28	27				
	The Scaw (Skagen)	1029·7	32	WSW	1	b	1029·2	0	32	+2	SW	4	-	o	4	-	37	30				
	Blaavands Huk	1029·7	36	SSE	1	b	1029·5	0	36	+4	S	3	-	o	3	-	37	28				
	Haparanda ...	1010·4	27	WSW	2	o	1012·6	+1	23	+2	SW	2	-	b	*	-	36	21				
	Hernösand ...	1021·7	30	-	0	b	1019·9	0	14	-18	S	2	-	b	*	-	39	14				
	Stockholm ...	1027·0	28	W	2	b	1027·8	0	27	-8	SW	2	-	o	*	-	34	23				
	Wisby ...	1029·3	30	S	4	b	1030·9	+2	30	-2	WSW	2	-	b	3	-	34	27				
	Karlstad ...	1028·4	18	-	0	b	1027·7	-1	30	+16	WSW	4	-	o	*	-	30	9				
	Petrograd (5 a.m. G.M.T.)														*							
France, &c.	The Helder ...	1028·7	39	SE	1	o	1028·8	-0	39	+2	S	2	-	m	1	-	41	37				
	C. Gris Nez ...	1027·9	47	SW	2	f	1026·9	0	47	0	SW	1	*	o	1	2	48	46				
	La Hève ...	1027·0	46	SW	1	f	1026·9	*	43	-3	SE	2	*	m	2	-	50	43				
	Brest (St. Mathieu)	1026·9	50	SE	3	b	1025·7	0	46	-4	SE	4	*	b	3	-	54	45				
	Rochefort (Ile d'Aix)	1027·3	50	ENE	3	o	1025·3	0	42	-5	E	3	*	b	*	Trace	?55	41				
	Biarritz ...	1025·0	41	E	3	o	1022·7	-1	35	-4	ESE	3	*	b	2	-	48	34				
	Paris ...	1028·7	46	NE	1	o	1028·8	0	37	-6	NE	1	-	f	*	-	52	37				
	Belfort ...	1029·0	43	E	4	c	1029·5	*	37	0	-	0	*	f	*	-	49	37				
	Lyons ...	1028·6	39	WNW	1	o	1029·3	*	35	-3	-	0	*	f	*	-	43	34				
	Nice ...	1026·3	46	-	0	c	1025·6	0	41	-2	E	1	*	b	1	-	54	39				
	Perpignan ...	1025·6	45	-	0	o	1024·8	-1	41	+7	-	0	SE	o	*	Trace	52	37				
	Sanguinaire ...	*	56	E	2	o	*	*	50	-7	E	2	*	b	1	-	59	46				
Southern Europe.	Corunna (7 a.m.)	1024·7	54	NNE	2	o	1023·8	-1	48	+7	S	1	-	f	2	-	54	48				
	Madrid (8 a.m.)	1023·5	48	W	1	b	1027·0	-1	32	-2	-	0	-	m	*	-	48	30				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1024·4	53	E	1	b	1023·7	*	49	-8	NE	1	*	m	1	8	58	47				
	Rome ...														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1020·0	0	57	+2	ESE	3	-	o	2	-	61	55				
	Azores (Horta, 8 a.m.)	1015·7	*	WSW	4	o	1020·7	+2	54	+2	-	0	*	o	2	2	61	54				
	Madeira (Funchal)	1023·9	61	SE	2	o	1023·9	0	57	-0	E	2	-	r	2	?	63	57				

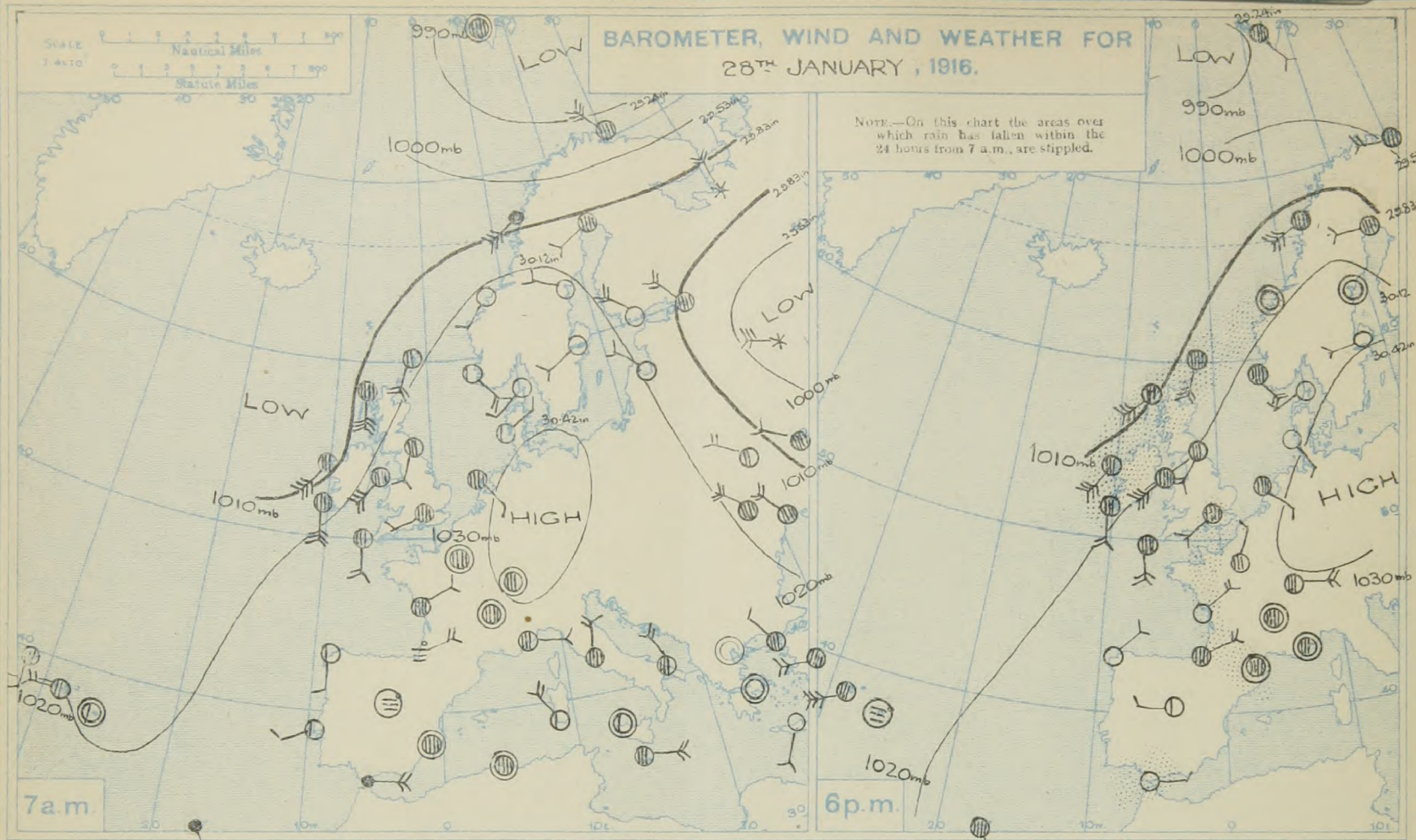
GALES.

Duration and Extreme Force in British Islands.

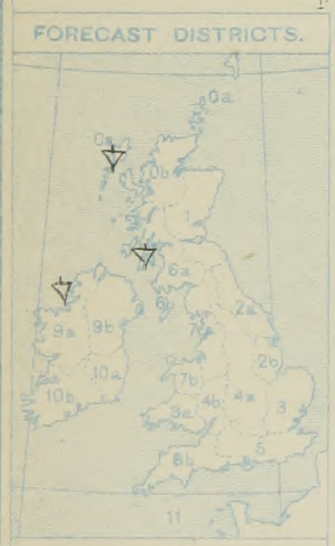
Blacksod Point: 29th Jan.

S.S.W. 8 at 7 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 SATURDAY TO NOON SUNDAY.



STORM WARNINGS.

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

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

South Cone hoisted yesterday at 8.20 a.m. in Dists. 0, 6 & 9.

Western Channel and Bay

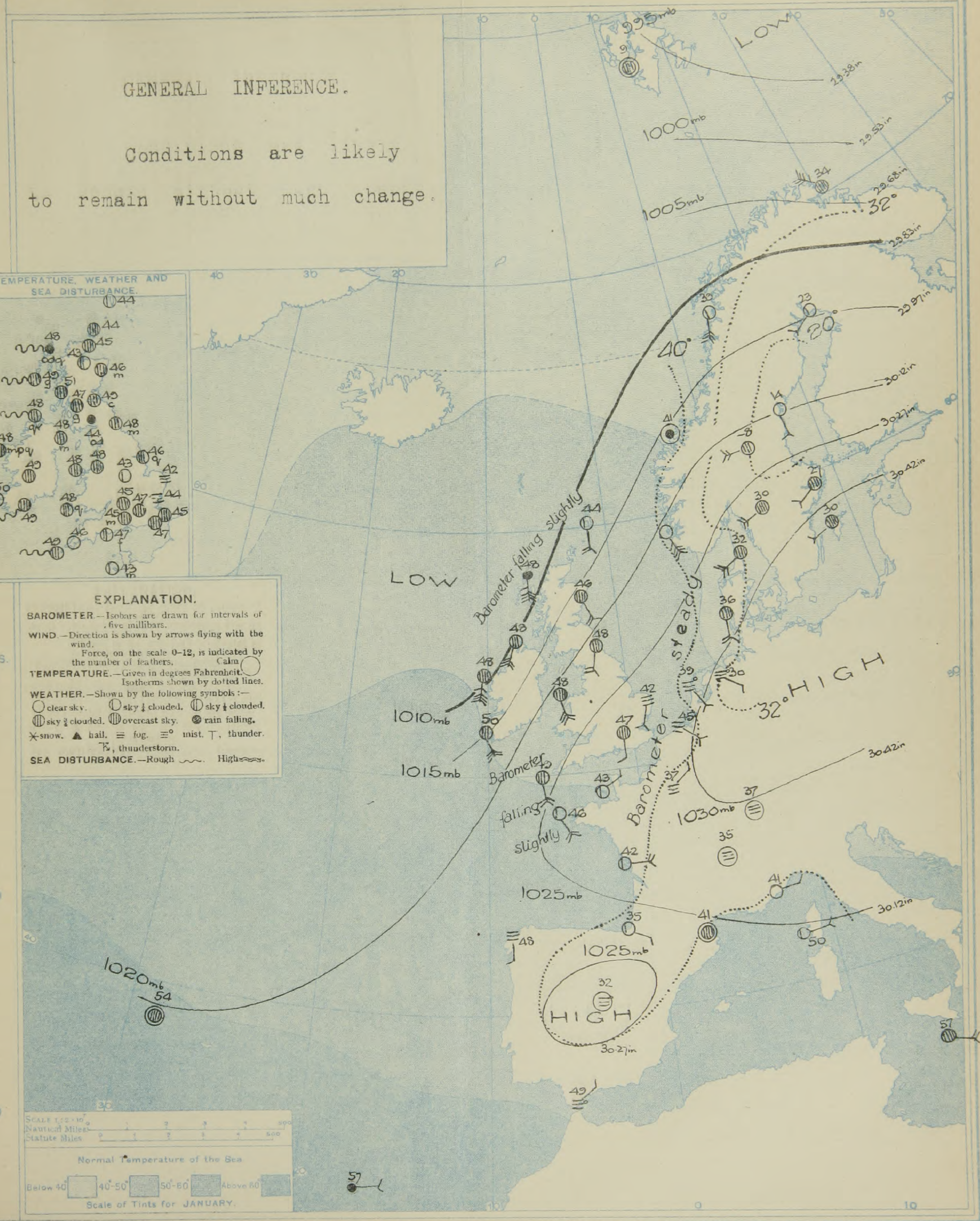
0, 1	Fresh or strong Southerly winds; cloudy, occasional rain; mild.
2	Moderate Southerly winds; cloudy; mild.
3, 4, 5	Light Southerly winds; cloudy, misty; mild.
6, 7	Same as Nos. 0 and 1.
8	Moderate Southerly winds; cloudy; mild.
9, 10	Same as Nos. 0 and 1.
11	Moderate Southerly winds; sea moderate; cloudy.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 29TH JANUARY, 1916.



Issue No. 19,791

DAILY WEATHER REPORT.

Saturday, 29th January 1916.

REPORTS FOR YESTERDAY.

28th January, 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	996·3	28	W	4	8	1006·6	+8	32	-2	NW	4	-	0	*	-	34	28
Rome	1026·7	43	-	0	0	1025·9	0	45	+11	N	3	-	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	0·3	49	34	r.0	0	0·0
	Banff	-	42	30	c	c	0·0
	St. Andrews	-	47	29	*	*	0·1
Eng. N.E.	Harrogate	-	49	38	0	o.c	0·0
	Skegness	-	49	39	og	o.cg	0·0
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	-	51	40	o.c.o	c.o	0·0
Midlands.	Buxton	1	47	39	c	c	0·0
	Leamington Spa	0·3	52	42	o.c	o.c	0·1
	Malvern	1	50	42	o.c	bc.c.o	1·0
	Ross-on-Wye	1	51	43	c	c	0·0
Wales.	Llandudno	0·2	53	37	c.cp	c	1·8
	Rhyl	-	51	39	bc.c	bc.c	0·9
	Colwyn Bay	-	51	36	bc	bc	1·2
	Aberystwyth	-	51	44	o.c.o	c.o	0·0
	Tenby	1	50	46	bc.c.o	bc	0·4

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft	-	47	41	om.c.bc	c.of	0·5
	Felixstowe	1	45	42	f	f.om	0·0
	Walton-on-Naze	1	45	43	om	om	0·0
	Southend-on-Sea	3	49	43	of	c	0·1
England, S.E.	Margate	2	51	46	o	o	0·0
	Ramsgate	1	51	45	c	c	0·0
	Hastings	1	49	47	fm	f	0·0
	Eastbourne	0·3	50	47	o	o.om	0·0
	Seaford	0·3	48	46	m	m	0·0
	Brighton	0·3	48	47	ofe	of	0·0
	Worthing	-	49	47	em	em	0·0
	Littlehampton	0·1	49	45	o	o	0·0
	Bognor	-	48	47	f	f	0·0
	Southsea	-	51	48	o	o	0·0
	Bournemouth	-	51	47	o	o	0·0
England, S.W.	Weymouth	1	50	48	ome	o.c.bcz	0·2
	Torquay	-	51	48	o.bc	ob	1·5
	Paignton	-	54	48	o.bc	bc	1·9
	Penzance	0·3	54	48	c	bc	3·9
	Newquay	*	53	45	c	bc	3·2
	Ilfracombe						
	Weston-super-Mare ...	0·3	52	46	.bc	bc.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.) ...	85	90	0·0	52	43	35	-	0	0	o.c
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	85	88	0·0	56	45	37	-	0	0	abcu
Camden Sq. (Brit. Rainfall)	86	85	0·0	53	44	37	.	ogm	0	*
Hampstead (Reservoir) ...	*	89	0·0	50	42	30	-	0	0	oe.o
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	86	0·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
187 Joules	5·8 Milliwatts.	15 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.	0·3	48	38	35	our	omu	oud	0·0
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*	52	44	43	oe.o	o.c	o	*
Teignmouth to 9 "	-	*	48	46	o	o	c.bc	1·0
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	Trace	52	49	46	o	oe.oe	om.o	*

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

29th & 30th January 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.42 / 7.41	12.8 / 12.6	4.30 / 4.32
Greenwich	7.46 / 7.44	12.13 / 12.13	4.41 / 4.43
Wick	8.28 / 8.26	12.25 / 12.25	4.21 / 4.23
Valencia	8.28 / 8.27	12.54 / 12.54	5.20 / 5.22

NOTES ON YESTERDAY'S WEATHER.

Temperature continued mild. Weather was cloudy, with much mist so that sunshine measurements were small. Heavy rain fell at Eskdalemuir (20 mm.).

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. 30. { Sunday. 30th January.

	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 ...	1011.6	46	SSW	4	om	?	0	44	0	WNW	4	NW	c	4	1	47	41	bc.ovd	dm	cp	*
	Deerness (Orkney)	1011.2	46	S	5	o	1016.1	*	41	-3	W	5	W	bc	4	-	46	40	o	o	o.c.bc	0.0
	Stornoway ...	1006.8	49	S	7	opq	1020.7	+5	37	-11	SW	3	-	b	3	4	49	36	odq	opq	ot.brq.b	0.0
	Castlebay (Barra Isd.)	1007.9	49	S	6	og	1021.9	+4	45	-4	SW	3	SW	bc	3	1	49	42	ogr	r.og	g.op.bc	0.0
	Glasgow ...	1017.7	48	S	2	og	1025.1	+6	38	-9	W	1	-	b	*	.6	48	38	om.o	o	oqr.b	0.8
	Eskdalemuir ...	1020.2	44	SSW	6	o	1025.5	+5	37	-7	WSW	3	NW	bc	*	8	45	36	od.o	o.od	o.or.bc	0.0
	Malin Head ...	1007.8	49	SSW	7	cq	1023.9	+2	38	-10	WNW	2	W	bc	4	0.2	50	38	cq	cq	bc	0.0
	Blacksod Point	?	47	SW	8	omqr	1022.3	+3	43	-5	SSW	4	SW	bc	4	14	49	38	omqr	omqr	bcp.bc	*
	Valencia ...	1015.3	49	SSW	3	ob	1025.8	+2	33	-17	NNW	2	-	bx	*	6	52	32	c.o.cot	or.ob	o.bc.bx	0.0
	Roche's Point	1018.3	50	SSW	5	o	1026.0	*	46	-3	-	0	-	o	4	1	50	45	om	om	opo	*
	Birr Castle ...	1015.2	49	S	5	o	1025.7	*	34	-16	SSE	1	-	bc	*	3	50	33	o	o	or.bcx	0.0
	Donaghadee ...	1015.2	47	SSW	5	omq	1024.9	+4	37	-11	SSW	2	-	bm	2	2	49	37	cgm	omq	oqp.bm	*
	Liverpool (Bidston)	1023.8	48	ESE	3	o	1027.1	+2	47	-1	S	2	-	og	2	-	49	45	om	o	o	0.0
	Holyhead ...	1020.9	49	S	6	cqg	1025.9	+2	47	-1	SSW	5	-	odm	4	2	-	-	m.o	o.c	o.odm	0.0
	Pembroke (St. Ann's)	1022.9	48	SSW	4	b	1027.8	+2	48	0	SSW	2	-	c	3	-	50	48	c.bc	c.b	c	2.8
	Scilly (St. Mary's)	1022.6	50	SSE	4	o	1027.3	+3	48	-1	S	3	-	bc	4	-	52	47	c.bc	c.o	o.c.bcm	3.0
	Falmouth ...	1024.3	49	SSE	2	bc	1028.1	+3	47	+1	SSE	2	-	o	*	-	53	45	b	b.bc	bc.c.o	7.0
	Jersey (St. Aubin)	1026.8	49	ESE	3	o	1029.4	*	46	+3	SE	3	-	o	2	-	52	42	bm.b	bcm	bw.o	6.7
	Portland Bill ...	1026.3	50	S	2	b	1029.2	+1	49	+2	WSW	2	-	c	3	-	53	47	bc	bc.b	bc.cf	*
	Dungeness ...	1028.4	45	NE	1	b	1029.9	+1	45	-2	-	0	-	o	1	-	49	44	a.bc	bcb	bf.o	*
	Dover ...	1029.4	43	-	0	b	1031.3	0	43	-2	SE	1	-	o	2	-	48	41	a.c	c.bzw	b.bcc.o	0.1
	Wick ...	1011.6	47	S	4	o	1020.0	+13	39	-6	W	3	W	c	3	0.4	48	38	om.c	c.omq	o.bccp	*
	Nairn ...	1011.3	50	SW	4	cqg	1022.2	*	37	-6	SW	1	-	bc	2	-	52	35	c.bc	cg	cgr	3.3
	Aberdeen ...	1016.4	47	SSW	4	o	1023.2	+10	40	-6	W	2	-	b	3	-	51	40	om.og	c.o	oq.b	0.7
	Leith ...	1017.1	49	SW	3	o	1024.1	+3	41	-8	SW	1	SW	bc	1	1	51	40	c.o.c	o	oqr.c	*
	Tynemouth ...	1022.1	46	SSW	2	cm	1024.5	+3	48	0	NW	3	-	ovd	3	-	51	44	cm	bcm	cm	*
	Spurn Head ...	1026.4	45	S	3	c	1028.9	+1	44	-2	WSW	4	-	bcm	4	-	48	40	bc	c	cm	3.1
	Yarmouth ...	1028.3	42	WSW	3	f	1030.6	+1	41	-1	SW	2	-	f	2	-	44	39	f	f	of	0.0
	Clacton-on-Sea	1028.8	44	ESE	1	bc	1030.7	+1	43	-1	S	2	-	o	1	-	45	43	ogm	og.bcb	b.og	1.0
	Nottingham ...	1026.1	46	SSW	2	b	1029.3	*	42	-1	SW	1	SW	c	*	-	50	41	bc	a.c.b	b	2.2
	Benson (Oxon.) ...	1027.4	43	S	1	b	1030.5	+2	41	-4	SSE	1	-	o	*	-	51	39	o	b	bc	*
	Sth Farnborough	1027.6	45	SE	3	bc	1029.7	0	44	-1	S	1	-	om	*	-	52	43	m.bc	bcm	m.o	4.7
	London (Kew Obsy.)	1027.7	46	SSE	2	bc	1030.8	0	44	-3	S	1	-	o	*	-	53	40	om.c	c.bc	bc.bmwd	4.6
NORTHERN EUROPE.	Spitsbergen ...	981.1	18	S	1	s	974.3	-2	16	+7	N	1	*	s	*	*	18	5				
	Vardö ...	1004.7	38	-	0	o	996.8	-8	34	0	SW	6	-	o	4	*	34	27				
	Bodö ...	1010.7	41	ESE	4	o	1009.6	+4	39	0	SW	4	-	r	3	3	41	39				
	Christiansund	1013.6	45	-	0	o	1014.7	0	41	0	-	0	-	c	4	-	45	41				
	Skudesnaes ..	1021.9	41	SE	4	f	1021.6	-2	41	+2	SSE	5	-	o	5	5	41	34				
	Færder (X'ania Fjord)	1025.7	39	SSW	6	m	1025.3	0	39	+2	SW	5	-	m	3	-	39	36				
	The Scaw (Skagen)	1028.6	36	SSW	4	r	1029.1	0	36	+4	WSW	4	-	f	4	2	36	32				
	Blaavands Huk	1030.4	37	S	3	o	1031.9	0	39	+3	SSW	3	-	f	2	-	39	34				
	Haparanda ...	1014.6	16	SW	2	bc	1012.3	-3	16	-7	S	2	-	b	*	-	27	12				
	Hernösand ...	1021.1	10	-	0	b	1019.3	0	9	-5	-	0	-	b	*	-	27	-7				
	Stockholm ...	1026.6	30	SW	2	o	1024.8	0	34	+7	SW	2	-	o	*	-	34	27				
	Wisby ...	1030.4	28	SW	4	b	1029.2	0	32	+2	WSW	4	-	o	3	-	32	27				
	Karlstad ...	1027.4	32	SW	2	s	1028.7	0	34	+4	S	2	-	f	*	-	36	27				
	Petrograd (8 a.m. G.M.T.)	1024.0	25	WNW	3	o	1023.9	0	30	+5	W	3	-	o	*	-	30	23				
FRANCE, &c.	The Helder ...	1029.9	43	SSE	2	f	1031.9	0	36	-3	S	1	-	f	1	-	43	34				
	C. Gris Nez ...	1027.1	46	SSW	2	b	1030.7	+1	40	-7	SE	1	*	o	0	Trace	48	40				
	La Hève ...	1026.3	45	SE	2	b	1028.4	*	41	-2	NNE	2	*	m	1	-	48	39				
	Brest (St. Mathieu)	1025.9	50	SSE	3	bc	1029.2	+1	45	-1	SE	3	*	b	3	-	52	43				
	Rochefort (Ile d'Aix)	1025.2	46	-	0	b	1028.3	+1	39	-3	ESE	1	*	bc	*	-	55	39				
	Biarritz ...	1023.1	46	E	2	b	1026.6	+1	46	+11	SSE	2	*	o	2	-	52	43				
	Paris ...	1028.2	45	NNE	2	b	1030.0	+2	41	+4	ENE	1	-	o	*	-	46	37				
	Belfort ...	1029.5	38	E	5	f	1031.8	*	36	-1	ENE	4	*	o	*	-	43	33				
	Lyons ...	1028.7	39	NNW	1	o	1030.6	*	35	0	ESE	1	*	o	*	-	41	35				
	Nice ...	1026.4	43	E	1	b	1026.7	0	39	-2	E	1	*	b	2	-	54	39				
	Perpignan ...	1024.7	47	-	0	b	1027.7	+2	43	+2	r	0	-	r	*	1	55	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1026.3	54	SW	2	o	1027.8	+1	48	0	ENE	1	-	o	2	-	54	48				
	Madrid (8 a.m.)	1029.7	45	WSW	1	c	1029.9	+2	36	+4	ENE	2	-	o	*	-	45	32				
	Lisbon (9 a.m.)	1024.4	54	W	2	bc	1025.9	0	46	-4	N	2	-	o	5	-	57	45				
	Gibraltar ...							*					*									
	Rome ...	1024.2	46	N	2	bc	1024.6	0	39	-2	N	2	-	b	*	-	-	-				
	Malta (8 a.m.) ...	*	*	*	*	*	1020.0	0	50	-7	W	1	-	o	1	68	61	50				
	Azores (Horta, 8 a.m.)	1021.2	*	SSW	4	o	1019.8	0	59	+5	SSW	6	*	o	4	-	64	54				
	Madeira (Funchal)	1024.0	63	E	2	r	1024.8	0	55	-2	SSE	2	-	o	2	-	63	55				

GALES.

Duration and Extreme Force in British Islands.

Stornoway :- 29th.

18h. Squalls S.8.

Eskdalemuir :- 29th.

23h. SSW 8

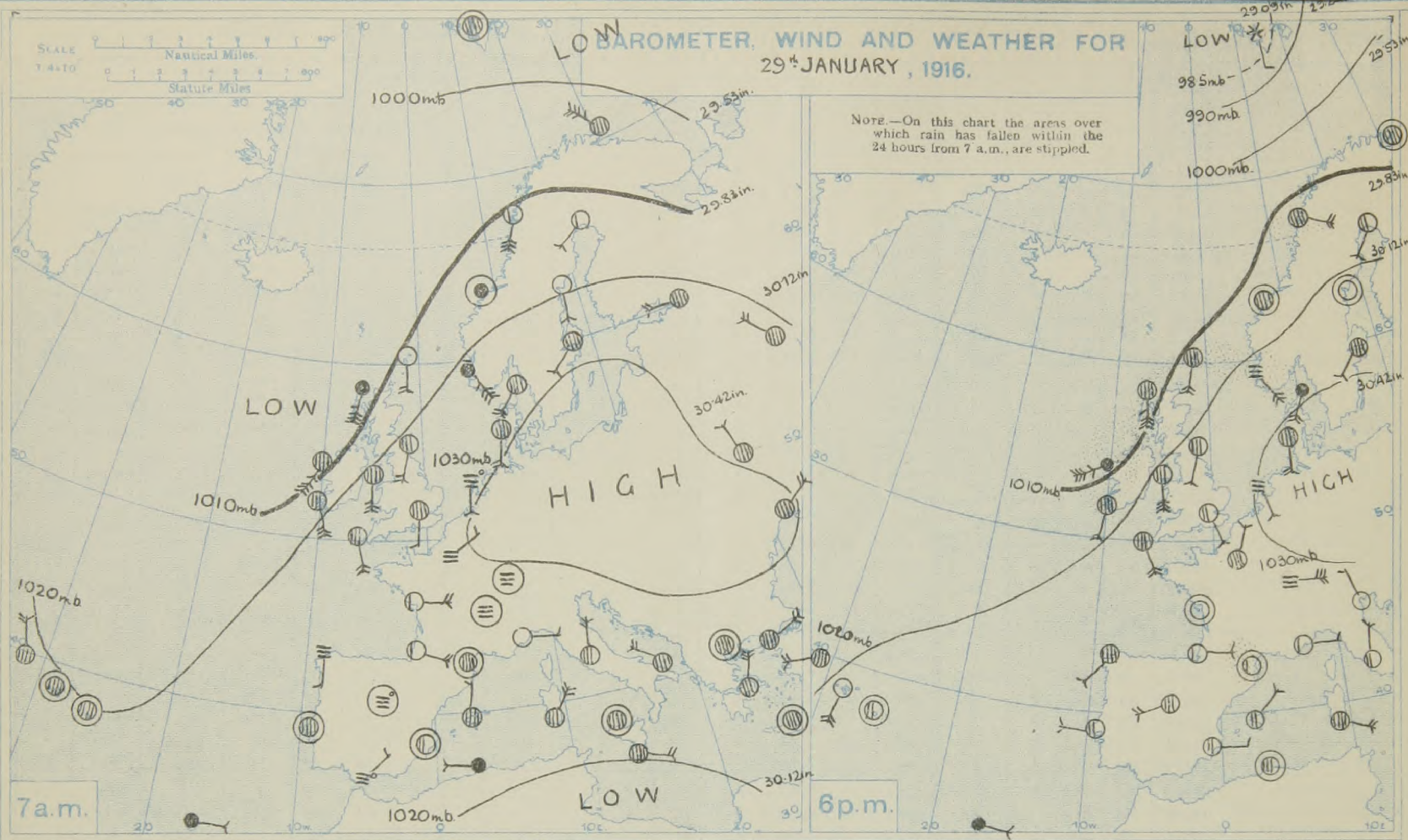
Blacksod Point :- 29th.

7h.-19h. SSW-SW.8.

Aberdeen :- 29th

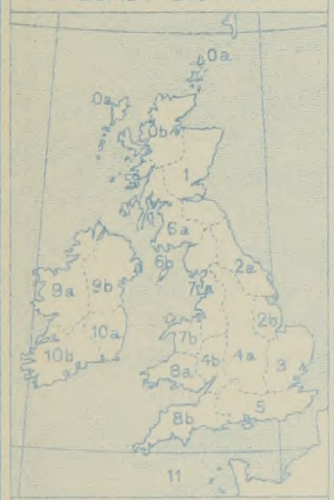
18h. Gusts SW 22 m.p.s.

* 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 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	Fresh Westerly winds, moderating later; unsettled, showery; moderate temperature.
1, 2 a, b	Moderate or fresh South-Westerly or Westerly winds, decreasing in force; mostly fair, some showers; moderate temperature.
3, 4 a, b, 5	Light airs, mainly between South and West; dull, with tendency to slight rain later, misty; moderate temperature.
6 a, b, 7 a, b	Same as Nos. 1 and 2.
8 a, b	Light variable or Southerly airs; mostly fair, occasional light rain; moderate temperature.
9 a, b	Same as Nos. 1 and 2.
10 a, b	Same as No. 8.
Western Channel and Bay 11	Light breezes, mainly South-Easterly; weather fair; moderate or slight sea.

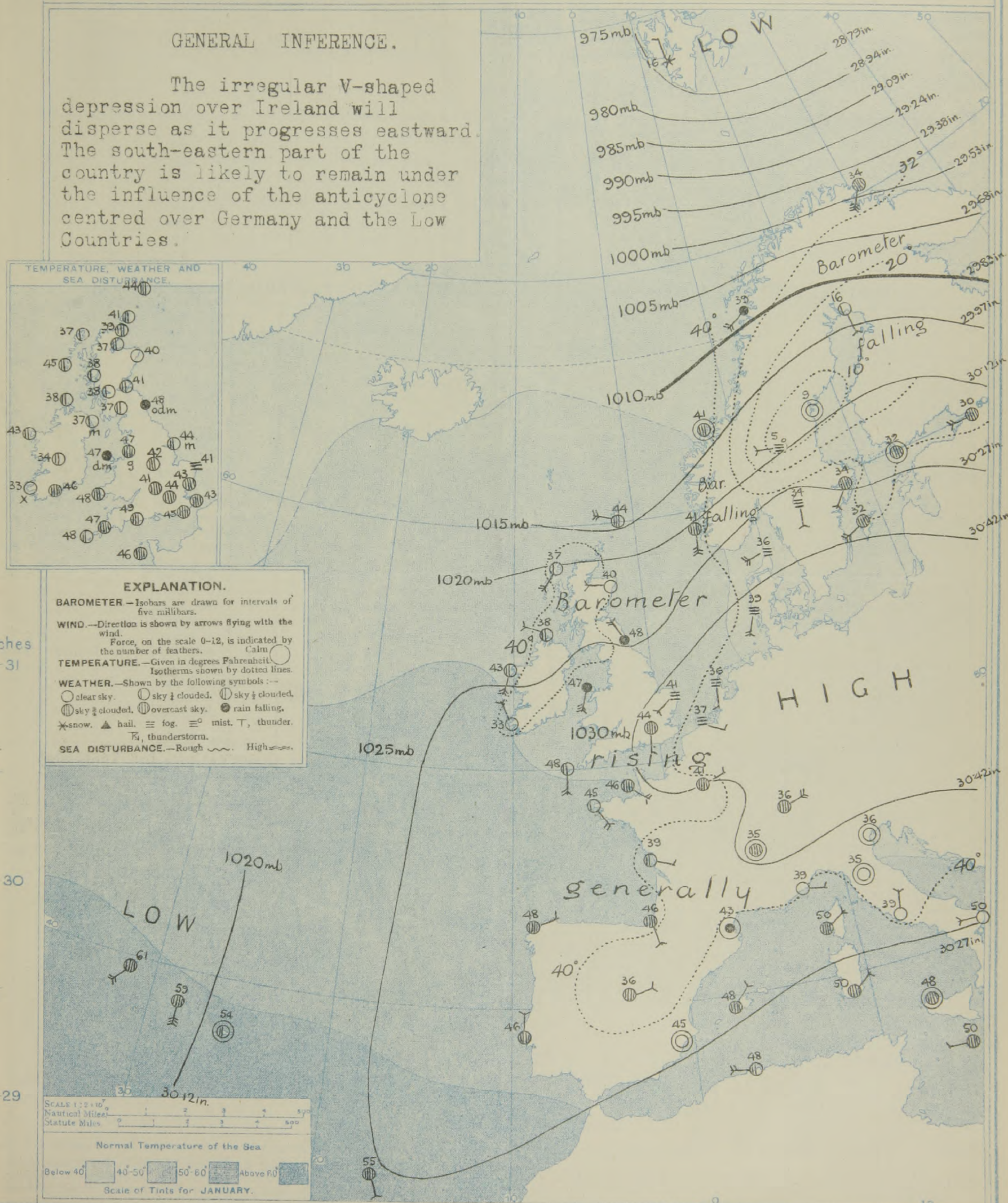
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

Inches: 31, 30, 29

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 30TH JANUARY, 1916.



Issue No. 19,792

DAILY WEATHER REPORT.

Sunday, 30th January 1916.

REPORTS FOR YESTERDAY.

29th January, 1916

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0–12.	Weather.	Observations at 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.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd ...	1019·8	23	W	2	b	1021·7	0	25	-7	W	3	-	0	*	-	32	21
Lisbon	1024·3	54	NW	2	0	1024·0	+1	50	+2	-	0	-	0	?	-	55	50
Rome	1024·6	45	N	3	bc	1024·3	0	41	-4	NE	3	-	0	*	-	*	*

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	6	50	40	0	0	0·0
	Banff	-	51	38	c.bc	bc	0·0
	St. Andrews				*	*	
Eng., N.E.	Harrogate	-	50	44	0 c.bc	bc.c.0	3·0
	Skegness	-	49	41	0.bc	bc.b	4·3
Eng., N.W.	Morecambe						
	Blackpool						
	Southport	-	49	46	0 c.0	0.c.0	0·1
Midlands.	Buxton	-	47	41	bc	bc	1·5
	Leamington Spa	-	51	43	c.bc	bc	4·8
	Malvern						
	Ross-on-Wye	-	51	43	c.bc	bc	1·4
Wales.	Handudno	-	52	47	c	c	1·4
	Rhyl	-	52	48	c	c.bc	0·8
	Colwyn Bay						
	Aberystwyth	-	51	43	0.c	c.b.0	0·1
	Tenby	-	51	46	b	bc	4·0
England, E.	Lowestoft						
	Felixstowe	0·2	44	41	f	omf.bc	0·0
	Walton-on-Naze	Trace	44	42	ome.om	bc.b	0·0
	Southend-on-Sea	-	53	44	0.c.bc.b	b.bz	4·7
England, S.E.	Margate	-	50	44	c	c.bc	2·0
	Ramsgate	-	49	43	b.bc	bc	2·7
	Hastings	-	51	45	0.bc	b	3·5
	Eastbourne	-	51	46	bc b	b.bc	4·0
	Seaford	Trace	52	42	bc	0.bc	4·1
	Brighton	-	50	46	b.bc c.0	0 c.bc.b	2·1
	Worthing	-	53	43	b	b	3·0
	Littlehampton	-	49	43	bc.b	0	2·2
	Bognor	-	50	44	f	f	1·3
	Southsea						
	Bournemouth	-	52	44	f.bc	b.f	3·3
England, S.W.	Weymouth...						
	Torquay	-	53	47	b	bc.b	5·6
	Paignton						
	Penzance	-	52	49	b.bc	bc	5·9
	Newquay						
	Ilfracombe	-	54	46	bc	c.bc	4·8
	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.) ...	73	94	6·8	54	37	29	-	b	b.bc	b.0≈
City (Bunhill Row)	*	*	2·7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	90	5·1	54	40	34	-	bc	bc	bc.0
Camden Sq. (Brit. Rainfall)	78	88	2·7	52	40	34	-	o.bc	bc	*
Hampstead (Reservoir) ...	*	92	2·8	52	39	27	-	bc	bc	bcmo≈
Richmond Park ...	*	*	4·7							
Kew. (See front page.)	*	*	4·6							
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	90	4·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
393 Joules	12·2 Milliwatts.	29 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.	Trace	51	49	46	c	c	c.0	*
Darwen to 9 p.m.								
Manchester ,,	-	50	46	*	c.0	o.c.bc	o.cbc	1·4
Birmingham ,,	-	48	43	37	*	o.c	o.c	0·1
Oxford to 8 p.m.	*	51	43	38	o.c	om	o.bc	*
Teignmouth to 9 ,,								
Plymouth ,,	-	54	47	-	bcrw	bcr	b	8·1
S. Kensington (Museum Grounds to 6 p.m.)	Trace	53	45	32	o.b.	o.bcm	bm	*

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

30th & 31st January 1916.	Sunrise G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	7·41 / 7·40	12·6 / 12·7	4·32 / 4·34
Greenwich	7·44 / 7·43	12·13 / 12·14	4·43 / 4·45
Wick	8·26 / 8·24	12·25 / 12·26	4·25 / 4·28
Valencia	8·27 / 8·26	12·59 / 12·55	5·22 / 5·24

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° in most districts. Rain fell in the north-west, fairly heavily at Blacksod Point. Amounts of sunshine were very variable, up to 7·0 hours at Falmouth.

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. 31 { Monday 31st January

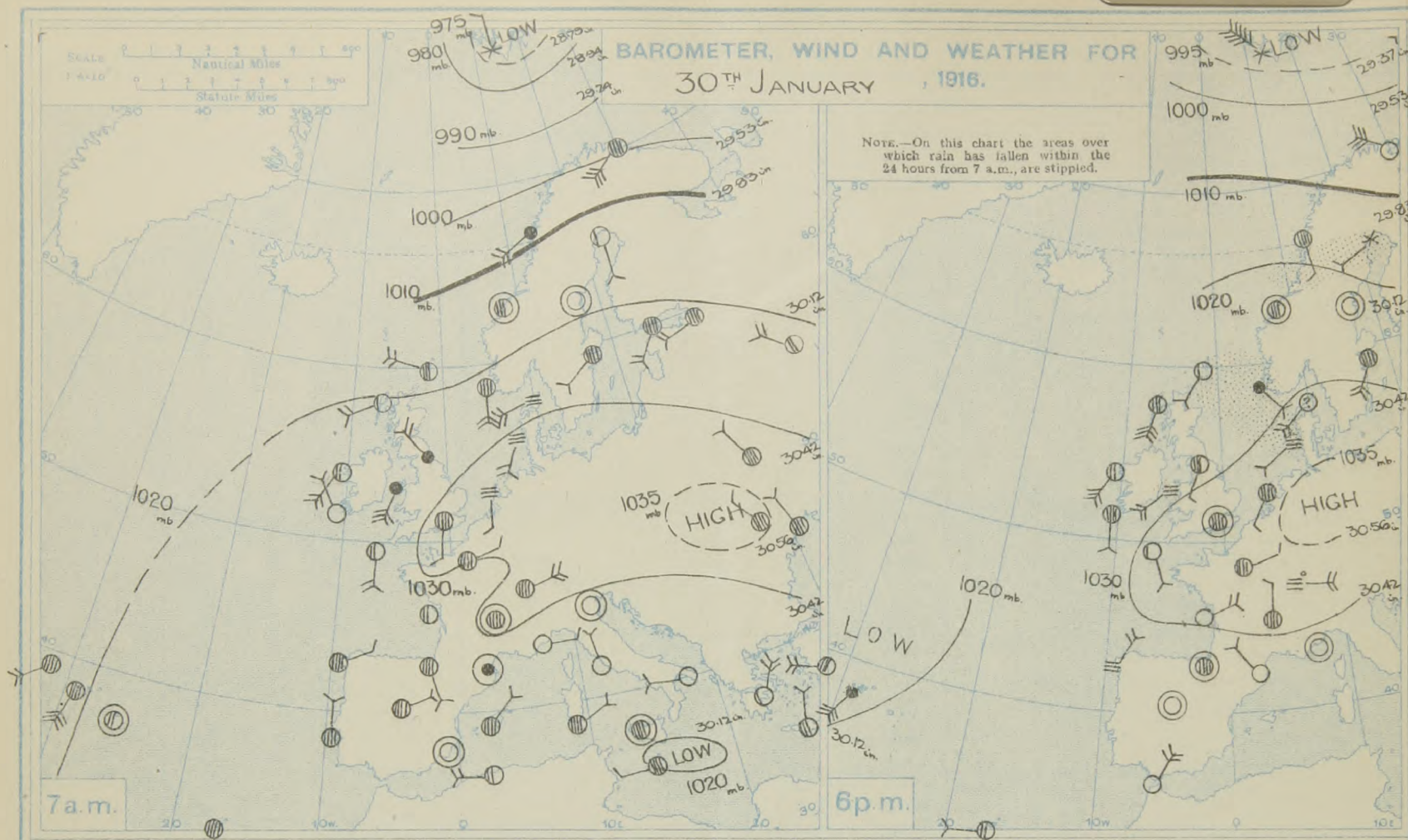
	STATIONS.	Yesterday Evening. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	This Morning 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea. 0-9.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1024·4	43	SW	2	b	1026·1	0	43	-1	SSW	3	SW	bc	3	1	46	40	bc	bc	bc.p	
	Deerness (Orkney)	1025·4	42	S	4	b	1025·0	*	37	-4	SSW	1	NW	bm	4	1	46	37	bc	bc.b	b	5·8
	Stornoway ...	1023·1	44	SSW	6	cq	1022·7	-3	46	+9	SSW	7	-	bcq	6	-	46	36	bc.cq	cq	c.bcq	1·0
	Castlebay (Barra Isd.)	1025·2	45	S	5	o	1025·3	0	48	+3	SSW	4	-	o	4	-	48	43	bcm	cm.bc.o	o	1·6
	Glasgow ...	1029·4	41	N	1	c	1029·7	-1	47	+9	SSW	1	-	omg	*	0·1	47	37	bz.bcz	cg	bcm.op	1·3
	Eskdalemuir ...	1030·4	42	S	2	om	1030·9	0	45	+8	SW	4	-	oe	*	0·4	45	34	bc.bu	bc.c.o	ofdom	6·4
	Malin Head ...	1026·2	42	SSW	2	bc	1026·2	-1	47	+9	SW	4	SW	bc	3	-	52	37	bc	bc	bc	6·8
	Blacksod Point	1024·6	44	SSW	5	bc	1025·7	+2	47	+4	SSW	5	SW	cm	4	-	48	42	bc	bc	bccm	*
	Valencia ...	1027·9	47	S	2	o	1029·6	+1	49	+16	SSE	3	-	o	*	1	50	32	bcx.c	c	oc.o	2·7
	Roche's Point	1029·7	49	SW	3	o	1031·7	*	49	+3	SW	3	-	o	4	-	54	46	o.c	of.m	o.c.o	*
	Birr Castle ...	1028·0	49	-	0	c	1030·0	*	48	+14	S	1	-	o	*	-	51	32	bc	c	o	6·7
	Donaghadee ...	1028·1	44	S	2	om	1029·6	+1	48	+11	SSW	3	-	ogm	3	-	48	36	bcm	bcm	ofogm	*
	Liverpool (Bidston)	1032·2	49	SSW	1	o	1033·2	+1	42	-5	SSE	1	-	o	1	-	52	42	om	om	om	0·0
	Holyhead ...	1030·4	47	SW	4	fe	1032·7	0	46	-1	SW	4	-	om	3	1	?	?	fpd	fpde	ofo.bo	0·0
	Pembroke (St. Ann's)	1031·7	48	S	3	b	1033·7	0	47	-1	SSW	3	SW	c	3	-	49	46	c	c	bc	0·0
	Scilly (St. Mary's)	1031·2	48	SSE	2	bm	1032·9	0	47	-1	SE	2	S	bc	3	-	53	45	bc.b	bc	bcmc	6·7
	Falmouth ...	1031·9	47	SSE	2	cg	1034·1	+1	45	-2	SE	1	-	o	*	-	52	45	o.b.bco	c.b.bc	b.bc.o	4·5
	Jersey (St. Aubin)	1032·5	45	E	2	o	1034·0	*	40	-6	E	2	-	om	2	-	46	40	o	oc.o	b.om	0·0
	Portland Bill ...	1033·0	46	ESE	2	o	1034·5	-1	43	-6	NE	2	NE	o	3	-	48	42	c	c.o	o	*
	Dungeness ...	1033·1	43	ESE	1	o	1034·6	0	38	-7	N	1	-	o	1	-	45	38	obz	bc.o	o.c.b.o	*
	Dover	1034·1	41	NE	1	c	1035·1	0	37	-6	NW	2	NW	c	2	-	45	35	gz.c	c.bcg.c	g.c	0·9
	Wick	1025·9	43	S	2	b	1024·8	0	39	0	SSW	3	-	b	3	-	43	36	cm.b	b	bc.b	*
	Nairn	1026·7	37	-	0	bc	1026·3	*	40	+3	SW	1	-	bc	2	-	45	34	bcq	bc	bcoc	6·2
	Aberdeen ...	1028·4	41	SSW	2	b	1027·4	0	36	-4	SSW	2	-	bz	2	-	47	34	bz.b	b	bpc	6·6
	Leith	1028·9	42	W	1	c	1029·1	0	44	+3	E	1	-	o	2	-	46	38	b	b	c.bcm	*
	Tynemouth ...	1029·7	47	SW	1	cm	1031·4	0	48	0	SW	2	-	ogm	2	-	48	45	bcm	bcm	ogm	*
	Spurn Head ...	1032·2	46	W	3	o	1033·8	0	42	-2	-	0	-	om	2	-	48	41	om	omd	o	0·0
	Yarmouth ...	1034·0	41	SW	2	f	1035·3	0	40	-1	WSW	2	-	f	1	-	42	39	f	om.f	f	0·0
	Clacton-on-Sea	1033·9	42	-	0	o	1035·7	0	39	-4	-	0	-	o	0	-	44	38	og	ogm	og	0·0
	Nottingham ...	1032·6	48	SW	1	o	1034·4	*	36	-6	WSW	1	SW	cm	*	-	51	35	bc.c	c.o	o.c	0·6
	Benson (Oxon.) ...	1033·4	39	E	1	b	1035·3	0	36	-5	SSW	1	-	ow	*	-	49	33	bc	bc	b.bc	*
	Sth Farnborough	1033·3	43	E	1	o	1034·9	0	39	-5	-	0	-	om	*	-	44	39	om	om	om	0·0
	London (Kew Obsy.)	1034·2	44	-	0	om	1035·5	0	41	-3	-	0	-	om	*	-	46	40	o.om	om	om	0·0
NORTHERN EUROPE.	Spitsbergen ...	992·4	3	NW	9	s	996·2	-6	-8	-24	NE	2	*	c	*	*	16	-9				
	Vardö	1005·6	32	NW	6	b	1009·7	+4	30	-4	WNW	4	-	n	4	*	34	30				
	Bodö	1019·5	37	S	1	o	1018·4	-3	41	+2	SW	5	-	r	3	7	39	34				
	Christiansund	1023·7	37	-	0	c	1027·8	0	37	-4	-	0	-	b	4	-	43	36				
	Skudesnaes ..	1027·9	41	SE	2	r	1033·6	0	39	-2	SSE	4	-	o	4	2	43	36				
	Færder (Christiania Fjord)	1029·2	39	SSW	4	f	1035·8	+3	34	-5	SSW	1	-	f	2	-	39	32				
	The Scaw (Skagen)	1031·1	37	SW	4	?	1036·7	+3	36	0	SW	2	-	f	3	-	39	34				
	Blaavands Huk	1033·6	39	SW	2	f	1037·1	+4	39	0	S	1	-	r	1	2	39	36				
	Haparanda ...	1016·0	32	WSW	2	s	1023·0	-1	19	+3	WSW	2	-	o	*	2	32	10				
	Hernösand ...	1022·0	10	-	0	b	1029·0	+2	18	+9	N	2	-	f	*	-	21	7				
	Stockholm ...	1025·9	39	SW	4	o	1032·6	+4	36	+2	W	4	-	o	*	-	39	34				
	Wisby	1030·3	36	WSW	4	o	1035·5	+3	36	+4	WSW	2	-	m	3	-	36	30				
	Karlstad	1028·7	37	-	0	o	1035·7	+3	36	+2	-	0	-	f	*	-	39	30				
	Petrograd (6 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1034·4	36	SW	1	o	1035·8	0	34	-2	S	1	-	m	0	-	36	32				
	C. Gris Nez ...	1033·2	40	ENE	3	m	1034·9	0	35	-5	ESE	1	*	c	1	-	43	34				
	La Hève	1031·3	43	NNE	1	m	1032·6	*	41	0	-	0	*	m	0	-	48	39				
	Brest (St. Mathieu)	1032·3	46	ESE	2	c	1034·4	+2	42	-3	NE	1	*	o	2	-	52	39				
	Rochefort (Ile d'Aix)	1030·1	41	ENE	3	b	1031·9	0	37	-2	ENE	4	*	o	*	-	50	36				
	Biarritz	1028·2	48	-	0	o	1029·0	0	43	-3	-	0	*	b	2	-	52	41				
	Paris	1033·2	39	ENE	1	o	1034·0	+1	34	-7	NNE	2	-	o	*	-	41	32				
	Belfort	1032·4	36	E	4	m	1033·9	*	27	-9	E	4	*	m	*	-	39	27				
	Lyons	1032·0	35	N	1	o	1032·0	*	35	0	NW	2	*	o	*	-	36	34				
	Nice	1027·7	44	-	0	b	1028·7	0	42	+3	E	3	*	b	1	-	54	39				
	Perpignan ...	1027·7	48	NW	2	b	1029·5	+2	34	-9	-	0	-	m	*	-	55	34				
	Sanguinaire ...	*	58	W	1	c	*	*	56	-	E	2	*	o	2	-	59	46				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1028·3	54	NNE	3	f	1030·3	+2	41	-7	S	1	-	m	2	-	55	41				
	Madrid (8 a.m.)	1028·0	41	-	0	b	1032·3	+3	32	-4	-	0	-	b	*	-	41	30				
	Lisbon (9 a.m.)																					
	Gibraltar	1024·7	57	NE	4	b	1024·7	*	55	-	SE	5	*	o	4	Trace	59	46				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1022·4	+1	52	+2	-	0	-	r	1	4	57	50				
	Azores (Horta, 8 a.m.)	1019·1	*	SSW	6	r							*									
	Madeira (Funchal)	1023·0	61	W	2	bc	1023·0	-1	55	0	N	3	-	bc	3	-	63	55				

RAINFALL.

Equivalents of Millimetres in Inches.

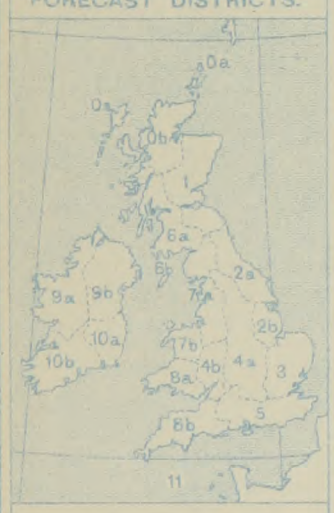
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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.



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.

0 {a, b} Fresh or strong South-Westerly winds; some rain, fair intervals; rather mild.

1, 2 {a, b} Light or moderate South-Westerly winds; fair; temperature normal.

3, 4 {a, b}, 5 Calms or light variable airs; dull and misty, some fog on coast; temperature normal.

6 {a, b}, 7 {a, b} Moderate South-Westerly winds; dull, misty; rather mild.

8 {a, b} Light Southerly or variable winds; fair to dull; temperature normal.

9 {a, b} Moderate South-Westerly winds; fair; rather mild.

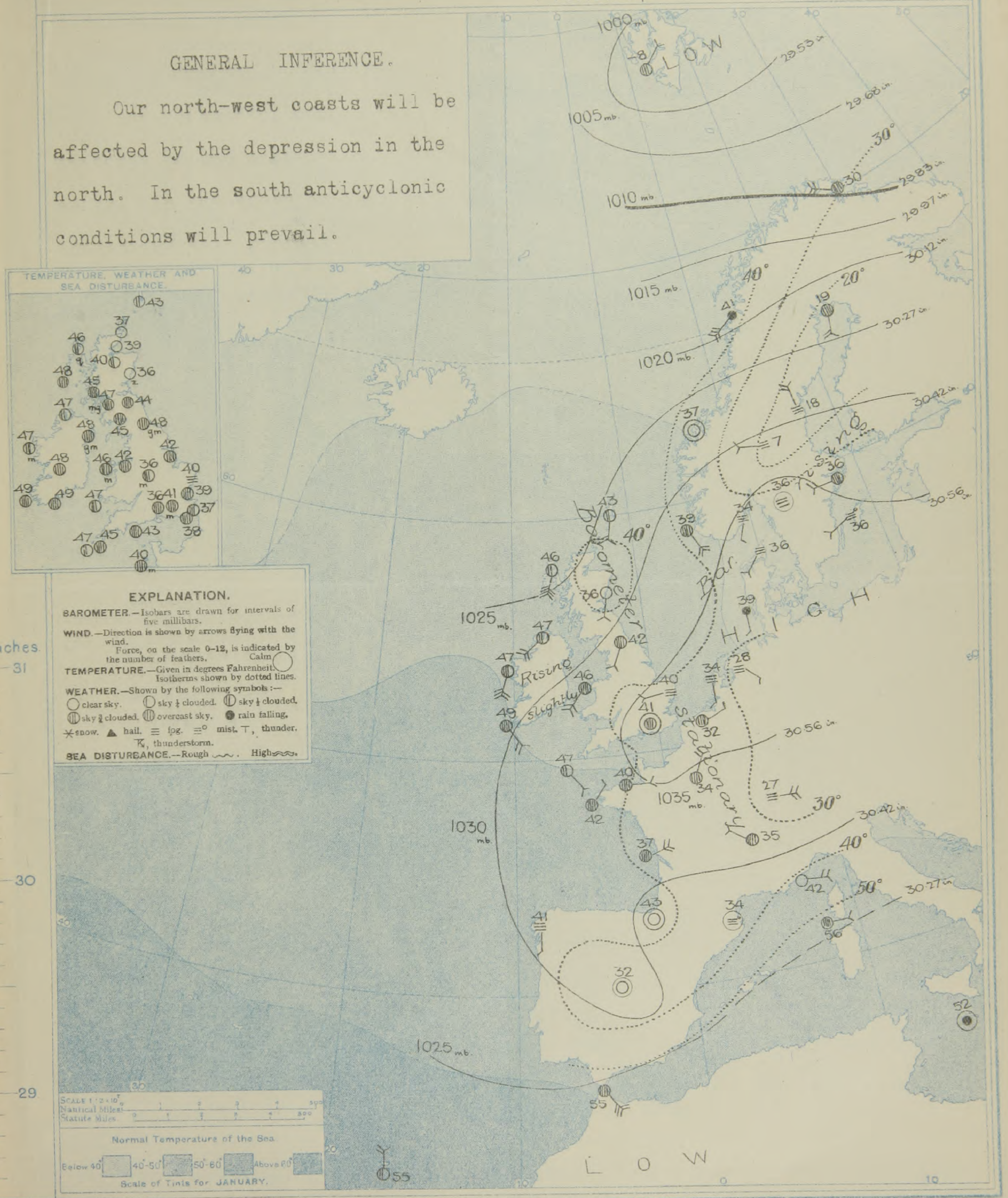
10 {a, b} Same as No. 8.

Western Channel and Bay 11 Light variable winds; sea smooth; fair to dull.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 31ST JANUARY, 1916.



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

Station		Falmouth		Benson		Sth. Farnborough		Benson		S. Farnborough		Aberdeen		S. Farnborough		S. Farnborough		Falmouth			
Date & Hour		24th. 11h.		24th. 12.11h.		25th. 7.38h.		25th. 12.23h.		26th. 7.35h.		26th. 11h.		27th. 7.33h.		28th. 7.23h.		29th. 12h.			
		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Heights in Kilometres.	6					+12	−1														
	5					+9	+5			+10	+2										
	4					+4	−1			+5	−1										
	3					+4	−1			+9	−1							0	+21		
	2	+1	+3	+13	−5	+8	+3			+7	0							−3	+21		
	1	+13	−6	+9	−6	+13	+3	+17	+5	+13	+2	+16	0					−1	+17		
	0.5	+23	−16	+7	−4	+13	+3	+15	+8	+10	+1	+10	+3	+13	+2	+6	0	0	+14		
	0	+3	−3	+3	0	+4	+3	+5	+5	+3	+2	+4	+4	+5	+3	0	+1	−1	+8		

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	46	35	p bc	b	4.6
	Banff	–	48	37	b	b	6.6
	St. Andrews				*	*	
Engl., N.E.	Harrogate	–	49	42	bc.b	bc.c.o	2.3
	Skegness	–	46	40	o.bc	bc.c	2.9
Engl., N.W.	Morecambe						
	Blackpool						
	Southport	–	50	45	od o	d o	0.0
Midlands.	Buxton						
	Leamington Spa	–	52	42	bc	bc	6.1
	Malvern	–	52	40	b	b	6.5
	Ross-on-Wye	–	52	39	c.b	b	7.3
Wales.	Llandudno	–	52	47	c	c	0.0
	Rhyl	–	53	46			9.3
	Colwyn Bay	–	50	48	b	bc	0.5
	Aberystwyth	–	51	44	o.c	c.o	04
	Tenby						

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, E.	Lowestoft						
	Felixstowe	–	44	42	om	om	0.0
	Walton-on-Naze						
	Southend-on-Sea	–	48	41	o	o	0.0
England, S.E.	Margate	–	45	42	c o	o c	0.2
	Ramsgate	–	44	40	o z	z	1.5
	Hastings	–	47	44	o.c	o	0.1
	Eastbourne	–1	47	42	o	o	0.0
	Seaford						
	Brighton	–	50	44	o	o	0.0
	Worthing	–	46	43	o	o	0.0
	Littlehampton	–	49	43	o	o	0.0
	Bognor	–	46	45	o	o	0.0
	Southsea	–	45	44	c	c	0.1
	Bournemouth	–	48	43	bc.b	b.o	4.5
England, S.W.	Weymouth	–	48	46	bz	o	0.0
	Torquay	–	50	42	o	o	0.0
	Paignton						
	Penzance						
	Newquay	*	50	40	b	b	4.9
	Ilfracombe						
	Weston-super-Mare	–	51	43	bc.b	bc.c	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.)	88	93	0.0	44	39	37	–	o	o	o
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	92	0.0	45	41	40	–	o	o	bc om
Camden Sq. (Brit. Rainfall)	–	91	0.0	45	41	38	–	–	–	*
Hampstead (Reservoir)	*	93	0.0	43	37	34	–	o	o	o fom
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.)	87	86	0.0							

Vertical Component of Solar Radiation, per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
84 Joules	2.6 Milliwatts.	6 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 „								
Plymouth „								
S. Kensington (Museum Grounds to 6 p.m.)	–	49	42	29	bm.o	o. om	om	*

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

31st Jan. & 1st Feb. 1916.	Sunrise	Noon.	Sunset
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.40 / 7.38	12.7 / 12.7	4.34 / 4.36
Greenwich	7.43 / 7.41	12.14 / 12.14	4.45 / 4.47
Wick	8.24 / 8.21	12.26 / 12.26	4.29 / 4.31
Valencia	8.26 / 8.25	12.53 / 12.55	5.29 / 5.25

NOTES ON YESTERDAY'S WEATHER.

The day was rainless in most districts but the amounts of sunshine were very variable, from zero at many stations to over 6 hours at several in different parts of the country. Much mist was reported.

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.

JANUARY, 1916.

Corrections and additions for the month of January 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. 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.
1	Rome.	1025·3	50	–	0	b	1026·4	–	37	-9	N	1	–	f	*	–	57	37	.	.	.	.
2	Petrograd	1021·9	18	SW	3	S	1017·5	–	14	-11	S	4	–	s	*	–	27	14	.	.	.	.
	Rome.	1027·3	50	WSW	1	b	1028·4	–	41	+4	N	1	–	bc	*	–	54	37	.	.	.	.
3	Rome.	1026·1	48	–	0	bc	1025·5	–	36	-5	N	1	–	f	*	–	54	36	.	.	.	.
4	Rome.	1023·3	48	N	1	c	1023·9	–	43	+7	–	0	–	f	*	–	55	36	.	.	.	.
5.	Rome	1029·7	46	–	0	b	1029·3	–	43	0	N	1	–	b	*	–	55	37	.	.	.	.
6.	Petrograd	1001·9	28	SE	5	0	997·5	–	30	-4	SE	4	–	s	*	–	34	28	.	.	.	.
	Rome	1024·4	50	–	0	0	1022·4	–	46	+3	N	1	–	b	*	–	55	43	.	.	.	.
7	Spitsbergen	1012·0	-37	SE	2	b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rome	1023·5	48	–	0	b	1021·9	–	39	-7	N	1	–	0	*	–	55	37	.	.	.	.
8	Rome.	1018·4	52	SE	1	0	1011·4	–	54	+15	S	1	–	0	*	–	54	39	.	.	.	.
10	Petrograd	1005·9	23	NW	2	S	1005·2	–	25	-3	WSW	2	–	0	*	1	28	23	.	.	.	.
	Rome	1015·8	43	N	2	b	1023·1	–	41	-4	N	2	–	b	*	–	52	41	.	.	.	.
12	Funchal	1027·1	63	NE	4	bc	1028·7	0	55	-4	NE	3	–	0	2	–	66	55	.	.	.	.
13	Lisbon	1027·4	50	NNW	3	b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rome	1019·9	43	NE	1	b	1019·1	–	34	-2	N	1	–	b	.	–	34	34	.	.	.	.
	Castlebay.	.	.	.	.	.	1015·3	+4	41	-8	NW	6	–	0	6	0·4	49	38	.	.	bcghp.	0·0
14	Le Hève	1016·3	43	NW	7	c	1024·2	*	39	-7	NNE	6	*	b	6	–	46	31	.	.	.	.
15	Belfort	1027·7	32	W	2	c	1029·1	*	30	-2	W	3	*	0	*	?	37	28	.	.	.	.
19	Sanguinaire	*	52	S	3	0	*	*	55	+4	S	4	*	0	3	–	55	48	.	.	.	.
20.	Malin Head.						997·7	+3	40	-5	W	9	W	cghpl	8	9	52	37	.	.	cgpl	0·0
	Petrograd	1007·8	30	SW	4	S	1005·0	–	34	+9	WSW	3	–	r	*	6	34	23.	.	.	.	.
	Sanguinaire	*	55	E	1	0	*	*	53	-2	E	3	*	0	2	–	57	50	.	.	.	.
21	Lisbon	1033·7	54	NW	4	c	1033·2	+1	47	..1	NNE	4	–	b	7	–	57	43	.	.	.	.
22	Petrograd	1004·7	36	SW	3	0	1000·3	–	34	-2	SSW	5	–	0	*	–	36	34	.	.	.	.
	Sanguinaire	*	57	S	3	m	*	*	53	0	E	3	–	bc	3	–	59	46	.	.	.	.
	Horta	.	.	.	–	.	1022·4	-4	58	-2	SE	5	*	c	4	2	63	55	.	.	.	.
23.	Haparanda	978·4	25	SW	2	0	981·1	–	28	+1	W	4	–	bc	*	Trace	32	14	.	.	.	.
	Hernösand	990·3	34	SW	4	bc	995·8	–	36	+6	W	6	–	bc	*	Trace	39	21	.	.	.	.
	Stockholm	997·9	37	SW	4	r	999·8	–	28	-18	WNW	4	–	0	*	–	41	28	.	.	.	.
	Wisby	1003·5	39	WSW	6	c	1003·7	–	28	-11	WNW	6	–	bc	*	Trace	41	28	.	.	.	.
	Karlstad	996·8	39	SW	4	b	1007·4	–	39	+3	WNW	6	–	c	*	–	41	34	.	.	.	.
26	Petrograd	1003·0	28	S	2	b	991·4	–	36	+8	SW	3	–	0	*	1	36	27	.	.	.	.

Corrections.

1	Blacksod Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	?	.	.	.	.
2	Valencia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	47	.	.	.	.
	Pembroke.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	No Rain	.	.	.	.	.	.
	Portland	.	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Spurn Head.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	.	.	.	.	.
3	Malin Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40	.	.	.	.
	Blacksod Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	50	0	.	.	.	.	.	.	.	.	.	.	.	.
4.	Lerwick	.	.	.	.	.	.	.	.	.	SSE	.	.	.	.	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	gp. bc	.	.	.
	Spurn Head	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3·6
5.	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	gpw	.
6.	Holyhead	.	.	.	.	.	.	.	.	.	SW	.	.	.	.	.	.	.	.	.	.	.
	Pembroke	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.	.	.	.	.	.	.
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50	40	.	.	.	.
	Yarmouth.	.	.	W	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Lisbon	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.	.	46	.	.	.	.
7	Haparanda	.	16	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8.	Glasgow.	.	.	.	.	b	.	.	.	.	.	.	.	b	.	.	.	.	.	.	.	.
	Roche's Point.	.	.	.	.	.	.	.	46	-2	.	.	.	.	.	.	.	.	.	.	.	.
	Dungeness	.	.	.	.	.	.	.	.	.	.	.	.	.	.	No Rain	.	.	.	.	.	.
	Wick	.	.	.	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	The Scaw	.	36	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORTS FOR JANUARY, 1916.

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.	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.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
9	Deerness															1						
	Pembroke																					2·9
10	Stornoway						1012·8															
	Dungeness															0·1						
	Leith						1019·2															
	Spurn Head																	38				
	Yarmouth		42																			
11	Roche's Point	1014·2																				
	Pembroke														4							
	Aberdeen								39			5										
12	Eskdalemuir										SSW											
	Dungeness															0·1						
	Dover								35	−12												
	Spurn Head						1026·3															
13	Glasgow					orq														opq		
	Blacksod Point			W																		
	Dover									+8								34				
	Benson																		o	o		
	Skudesnees															No Rain						
14	Castlebay															0·1						
	Holyhead	1022·7																				
	Bodö															No Rain						
15	Castlebay								44	−1												
	Malin Head															0·1						
	Benson			SW.																		
16	Roche's Point														3							
	Scilly																50					
	Benson						1023·0															
	La Hève															2						
	Perpignan								30	−11								30				
	Madrid								33	+1												
	Rome																50	34				
17	Malin Head						1000·5															
	Rome																50	36				
18	Liverpool			ESE																		
	Pembroke						1008·6															
	Rome																50	43				
19	South Farnborough																53					
	The Scaw															4						
	Rome																54	41				
20	Holyhead	1002·0																				
	Tynemouth																	40				
	Yarmouth										SW											
	Benson															0·4				odq	oqecb	
	Rome																55	36				
21	Castlebay											6										
	Glasgow																		ctlhp			
	Roche's Point														4							
	Leith								32	+13												
22	Corunna															No Rain						
	Rome																57	39				
23	Castlebay						1014·5															
	Roche's Point																				b.ctim	
	Bodö															No Rain						
	Perpignan						1033·0											36				
	Rome																57	39				
24	Brest															No Rain						
	Biarritz															No Rain						
	Rome																57	37				
25	Lerwick	1000·0																				
	Deerness	1001·3																40				
	Roche's Point										W											
	Bodö															No Rain						
	Rome																57	34				

CORRECTIONS.

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.	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. Rain fall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
	*		°F.						°F.	°F.							°F.	°F.				Hours.
26	Blacksod Point		49																			
	Dover			WSW														40				
	Spurn Head										W											
	Rome																54	32				
27	Glasgow													bmex								
	Roche's Point																			omd		
	Dover			SW	4	c													b.bc.b	b.bc.c		
	Madrid	1037.7																				
28	Valencia																					2.7
	Holyhead	1024.9																				
	Dungeness															0.1						
	Rome																54	45				
29	Lerwick																	40				
	Rome																54	39				
30	Lerwick						1008.7															
	Blacksod Point	* 1008.4																				
	Aberdeen																		om.oq			
	Rome																55	47				
31	Malin Head																50					
	Rome																55	39				

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.§			
1	Richmond Park			0.0							
2	Richmond Park			0.5							
3	Richmond Park			0.0							
5	Richmond Park			0.0							
6	Richmond Park			1.0							
7	City			0.0							
16	Richmond Park			0.0							
17	City			0.0							
	Westminster			0.0							
	Richmond Park			0.0							
18	Greenwich				51						

GALES

Duration and Extreme Force in British Islands

Date	Additions.	Date	Corrections.
5.	Holyhead. 5th 5 a.m W 8 Gust W 22 mps.	3	Blacksod Point. 2nd 4pm - 3rd 7am SSW-WSW 8
25	Aberdeen 24th 8.30 p.m Gust SSW 22 mps	4.	Blacksod Point. 3rd 8pm SSW 10
		19	Blacksod Point. 19th 9 a.m - 19th 7am SSW 8.
		20	Castlehaven. 19th 8 a.m - Noon SW 8; 19th 1pm SW 9; 19th 11pm - 20th 7 a.m W 8. Ex. W to during night. Malin Head. 19th 7 a.m - 20th 7 a.m W 8. Ex. W to during night. Holyhead 19th 10 a.m SSW 8 Gust SW 20 mps 19th Midt WSW 8 Gust 24 mps WSW.
		21.	Holyhead. 20th 1pm W 8 20th Midt to 21st 2 a.m SSW 8.
		22.	Blacksod Point. 21st 10pm - 22nd 7 a.m SSW 8 Ex. SSW 9 at 11pm.
		30	Aberdeen 29th 1pm Gusts SW 22 mps.