METEOROLOGICAL OFFICE,

LONDON.

DAILY WEATHER REPORTS

1ST JANUARY TO 30TH JUNE, 1917.

JANUARY. FEBRUARY. MARCH.

DAILY WEATHER REPORT, JANUARY–JUNE, 1917.

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

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

VARDÖ, ARCHANGEL, BODÖ, Haparanda, Uleaborg, Kuopio, Isafjord, Akureyri, Seydisfjord, Reykjavik, Vestmanna, Thorshavn, CHRISTIANSUND, HERNÖSAND, Helsingfors, PETROGRAD, HANGÖ, STOCKHOLM, VELIEKI LUKI, MOSCOW, LERWICK, Karlstad, FAERDER, DEERNESS, SKUDESNAES, STORNOWAY, WICK, SKAGEN, WISBY, RIGA, GORKI, CASTLEBAY, NAIRN, ABERDEEN, Memel, COPENHAGEN, BORNHOLM, MALIN HEAD, GLASGOW, LEITH, BLAAVAND'S HUK, Neu-Fahrwasser, BLACKSOD POINT, ESKDALE, TYNEMOUTH, Swinemünde, Warsaw, KIEV, KHARKOV, DONAGHADEE, Cuxhaven, HOLYHEAD, LIVERPOOL, SPURN HEAD, Groningen, Berlin, PETROGRAD, BIRR CASTLE, NOTTINGHAM, THE HELDER, YARMOUTH, Breslau, Cracow, Lemberg, ELIZABETGRAD, NICOLAIEV, VALENCIA, PEMBROKE, ROCHES PT., BENSON, KEW, CLACTON, DOVER, Utrecht, Cassel, Flushing, S. FARNBORO, DUNKIRK, Brussels, Frankfurt, Prague, KISHINEV, ODESSA, TARKHANKUT, PORTLAND BILL, C. GRIS NEZ, SCILLY, FALMOUTH, LA HÈVE, Carlsruhe, Vienna, Buda Pesth, Hermannstadt, JERSEY, PARIS, Munich, BREST, Le Mans, BELFORT, Bucharest, Lugano, Trieste, ROCHEFORT, Limoges, LYONS, VENICE, PESARO, Leghorn, Florence, SANTA CRUZ, Angra, HORTA, PT DELGADA, CORUNNA, Bilbao, BIARRITZ, Toulouse, PERPIG, VIESTI, ROME, OPORTO, Barcelona, Naples, PATRAS, ATHENS, MADRID, LISBON, Palma, CAGLIARI, CANDIA, PALERMO, Alicante, Cape De Garde, MALTA, San Fernando, Malaga, ALGIERS, Tunis, GIBRALTAR, Sétif, Oran, Biskra, Sfax, Nemours, MADEIRA, Laghouat

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

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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. Means of			AIR TEMPERATURE. Absolute Extremes. 1881–1915.				RAINFALL. 1881–1[illegible].			BRIGHT SUNSHINE. 1881–1915.	
			1906–1915.	1881–1915.		Maximum.								
		7 a.m. Observations (reduced to M.S. Level).	Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	[illegible] 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.)	1015·5	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	1025·8	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]†	[illegible]†	13	49	1·93	—	—
	Dungeness	1012·9	39·5	44·5	35·2	57	1897	11			41	1·60	—	—
	Dover	[1014·1]§	[39·4]§	[45·6]§	[35·9]§	[56]§	[1913]§	[17]§	[1912]§	[1[illegible]	[4[illegible]§	[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]§	[1·87]§	[33]§
	Eskdalemuir	[1037·2]¶	[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	40	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. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 60

Thursday, 1st March.

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·7	41	NW	4	bc	1020·7	0	40	−4	SW	2	W	bc	2	2	45	37	op.bc	bc	b	*
	Deerness (Orkney)	1019·6	40	WNW	3	b	1022·0	*	36	−7	SW	3	–	bx	3	1	44	36	o.c.	c.bc	bx	6·2
	Stornoway ...	1021·7	40	W	5	bcq	1020·9	−1	40	0	SSW	3	–	bc	3	1	42	37	bcq	bcq	b.bc	7·7
	Castlebay (Barra Isd.)	1024·2	43	W	2	bc	1022·3	−1	44	+1	S	4	SW	c	4	0·4	46	43	b.op.b	bc	bc	7·9
	Glasgow ...	1023·5	40	WNW	2	b	1025·4	0	30	−10	NW	1	W	bz	*	2	46	30	op.c.bc	bc.b	bz,x	6·1
	Eskdalemuir ...	1023·0	36	–	0	b	1026·3	+1	24	−14	–	0	–	bx	*	–	45	24	o.od.c	c.bc.b	b.bc.bx	3·6
	Malin Head ...	1024·7	42	WSW	2	c	1023·6	−1	37	−6	S	2	–	b	3	–	46	36	b.b.	b.	bc	1·2
	Blacksod Point	1025·9	42	S	2	cg	1021·6	−3	41	−2	SSE	3	S	cmg	3	–	45	39	bc	bc	cm.cm	*
	Valencia ...	1026·0	47	NE	2	c	1023·0	−2	40	−6	–	0	S	o	5	1	49	38	o.bc	c.bc	bc.c.o	0·1
	Roche's Point	1026·6	46	–	0	cm	1023·5	*	44	−1	E	2	–	fd	2	3	49	44	om	or.fd	dm.f	*
	Birr Castle ...	1026·2	44	SW	1	o	1023·8	*	33	−11	–	0	–	o	*	1	48	30	om.o	o.c.o	c.ox	0·0
	Donaghadee ...	1024·6	42	NNE	3	bc	1023·9	−2	40	−2	S	2	–	om	2	–	47	38	bcm	bc	cm.om	*
	Liverpool (Bidston)	1024·9	40	WSW	2	c	1025·6	−2	36	−4	–	0	–	b	1	–	46	36	o	os.	bcx	0·0
	Holyhead ...	1025·1	43	N	3	c	1025·7	−1	40	−3	SE	3	–	om	1	Trace	47	39	opd	o.c.bc	c.o.	1·6
	Pembroke (St. Ann's)	1026·1	44	WSW	3	or	1025·0	−2	43	0	SSE	1	–	fd	1	2	44	42	o.v.o	o.or	f.fd	0·0
	Scilly (St. Mary's)	1028·8	46	W	1	o	1026·6	−1	45	+1	W	1	W	c	3	–	47	43	o	o	p.c.	0·0
	Falmouth ...	1020·2	44	W	1	o	1025·7	–	44	+3	W	2	–	o	*	–	47	40	o	o	o	0·0
	Jersey (St. Aubin)	1027·8	43	NW	2	o	1026·0	*	43	+7	W	2	–	oe	1	Trace	45	35	o.cf.o	o	oe	0·0
	Portland Bill ...	1025·9	42	WSW	3	o	1025·2	−1	40	−1	W	1	NW	c	2	1	43	38	o	o	c.or	*
	Dungeness ...	1023·9	41	W	3	o	1023·3	+2	41	+2	W	2	W	c	1	–	45	39	a.o.	o.	o.c.o.cr	*
	Dover	1024·6	42	SW	1	o	1024·8	+2	40	−1	NW	3	N	c	o	–	43	39	om.c	c.	o.c	0·0
	Wick	1029·7	38	NW	2	b	1022·6	o	34	−8	WSW	2	–	b	2	0·4	45	33	bcm.op	bcgpm.	bcm	*
	Nairn	1022·1	40	–	0	bc	1023·7	*	31	−11	–	0	–	bc	1	0·2	44	29	cp.bc	c.bc	bcx	2·0
	Aberdeen	1022·1	38	WNW	1	b	1024·4	+1	33	−9	WSW	1	–	b	2	0·1	48	31	c.bcpq	bcq	br	4·0
	Leith	1022·1	42	NW	1	bc	1024·8	o	32	−10	W	1	W	bc	2	–	49	32	cu c.bc	b	bc.bbc	*
	Tynemouth ...	1022·5	43	N	2	cm	1025·0	0	36	−5	WSW	1	–	bcm	3	–	49	35	cm	cm	cm	*
	Spurn Head ...	1021·6	41	WNW	5	om	1025·0	+1	36	−3	NNW	4	–	c	4	0·2	45	34	om.c	c.om	c	0·3
	Yarmouth ...	1021·8	42	SW	1	omd	1024·0	+3	35	−4	NNW	2	–	bf	2	1	45	34	om	om	fd.bf	0·0
	Clacton-on-Sea	1023·2	42	W	2	o	1024·7	+2	34	−1	NW	2	NW	bc	1	0·3	43	38	o	og	ogp.bc	0·0
	Nottingham ...	1023·2	46	WNW	3	op	1025·6	*	33	−6	SW	1	W	c	*	Trace	47	32	o.c	o	o.c	1·5
	Benson (Oxon.) ...	1024·2	44	WSW	2	o	1025·2	o	31	−7	–	0	–	omx	*	–	47	30	o	o	o.b	*
	Sth Farnborough	1023·9	46	NW	2	o	1025·1	+1	34	−5	N	1	–	o	*	–	47	32	o	o	o	0·1
	London (Kew Obsy.)	1024·3	46	W	3	o	1025·1	+1	40	−1	NNW	1	–	om	*	Trace	49	38	omp.o	o.c.o	o.om	0·4
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1012·3	23	S	3	o	1013·0	+0	23		SW	4	–	bc	1	*	23					
	Bodö	1006·6	39	ESE	4	c	1014·3	+1	36	−3	SW	1	–	c	3	–	41	34				
	Christiansund ...	1013·5	37	W	3	o	10207	+1	34	−7	–	0	–	b	2	1	45	34				
	Skudesnaes ...	1014·6	37	N	3	b	1019·9	+1	34	−5	N	3	–	b	2	b	37	34				
	Færder (Christiania Fjord)	1014·9	34	S	2	o	1019·1	+5	30	o	NNE	1	–	m	1	–	34	28				
	The Scaw (Skagen)																					
	Blaavands Huk	1016·4	34	WNW	1	f	1016·3	+2	36	+2	N	1	–	f	3	1	37	32				
	Copenhagen ...	1016·8	32	NW	1	b	1018·0	+3	32	+2	SSE	2	–	bc	*	–	37	30				
	Bornholm ...	1016·6	28	SE	2	b	1018·3	+2	30	o	ESE	1	–	m	o	–	34	28				
FRANCE, &c.	The Helder ...	1021·1	36	WSW	2	o																
	C. Gris Nez ...	1023·8	39	WSW	4	o	1023·5	+1	39	o	N	3	*	o	2	–	41	39				
	La Hève	1025·9	37	W	3	o	1025·6	*	40	+4	NNW	3	*	o	3	2	40	36				
	Brest (St. Mathieu)	1029·3	45	SW	1	o	1027·8	+1	45	+6	E	1	*	o	3	–	48	39				
	Rochefort (Ile d'Aix)	1027·1	45	N	3	o	10260	o	39	+7	ENE	3	*	o	*	–	52	32				
	Biarritz	1024·6	50	NE	2	b	1024·2	−1	34		SE	1	*	b	1	–	52	34				
	Paris	1026·4	41	NW	2	o	1028·7	−1	37	o	W	1		r	*	Trace	45	37				
	Belfort	1025·6	34	W	2	o	1024·8	*	30	+2	W	4	*	m	*	–	41	30				
	Lyons	1025·9	34	NNW	1	b	1024·4	*	34	+2	NW	1	*	o	*	–	45	32				
	Nice	1019·7	43	E	2	b	1017·2	o	40	−2	E	1	*	b	3	–	54	36				
	Perpignan ...	1020·8	46	NW	3	b	1019·9	+1	43	o	WNW	2	–	b	*	–	54	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar	1015·9	57	E	6	o	1012·8	*	56	+4	E	8	*	c	5	Trace	57	51				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...														*							
	Cairo (Helwan) ...																					

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	71	84	0·1	47	40	37	0·3	o	o	o
CITY (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	69	83	0·1	48	41	36	0·2	bc	bc	or om
CAMDEN SQ. (British Rainfall) ..	67	83	0·4	48	39	35	–	o	c.o	-
HAMPSTEAD (Reservoir)	*	86	0·1	46	37	29	–	o	o	o
S. KENSINGTON (Museum Grounds)	*	88	0·0	49	40	34	–	o	om	opm
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
2144	6·3	22·5

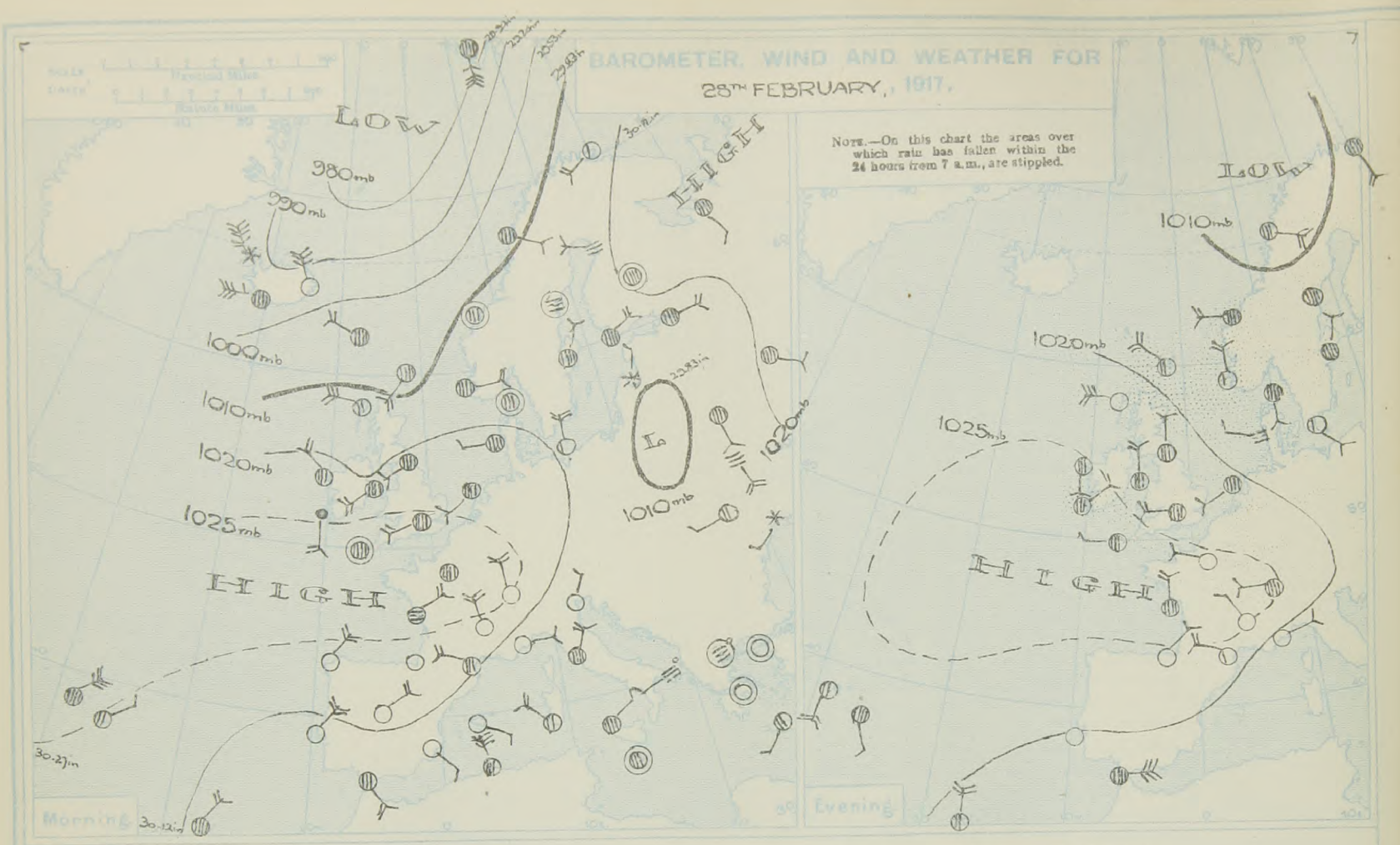
Temperatures at Greenwich and Camden Square are from Glaisher screens.

RAINFALL.

Equivalents of Millimetres in Inches.

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

* 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.

NO WARNINGS ISSUED

Western Channel and Bay

0 a, b — 1

South and South-Westerly winds, light or moderate; fair to dull; milder.

2 a, b — 3

Northerly to variable winds, light; misty, fair; moderate temperature.

4 a, b, c — 5

6 a, b — 7 a, b — 8 a, b — 9 a, b — 10 a, b

Winds between South and West, light to moderate; variable weather, some rain locally later; milder.

11

Light winds, variable; sea smooth or slight; fair.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 1ST MARCH, 1917.

GENERAL INFERENCE

The Anticyclone ridge will probably move slowly in an Easterly direction.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

EXPLANATION.

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

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

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

1015mb
1020mb
1025mb
Barometer rising
Barometer falling
HIGH
LOW
HIGH
LOW
1015mb
1020mb
1015mb
30.12in
29.97in
30.27in
30.42in
29.97in
30.12

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...						1023·4	+1	12	+7	S	1	o	—	*	6
	Gorki	1011·9	19	W	2	o	1011·1	o	16	+11	S	2	o	—	*	5
	Velieki Luki ...	1011·4	32	SE	2	o		*							*	
	Hangö	1012·3	28	—	o	S	1015·8	+2	21	−4	ENE	3	o	1	*	19
	Riga	1009·1	28	N	2	S	1010·4	+1	30	−4	NNE	1	S	1	*	28
	Petrograd ...	1014·1	21	E	4	o	1017·3	+1	17	−2	E	3	o	—		17
	Moscow	1018·3	12	S	2	o	1019·4	o	7	+2	SE	2	o	—		o
	Kiev	1015·3	27	SSW	3	o	1013·7	−2	23	+9	SSE	4	f	2	*	14
	Kharkov ...						1020·8	−1	16	+24	SE	2	o	—	*	−8
	Kishinev ...						1012·0	+1	16	−11	W	1	bc	—	*	14
	Elisabetgrad ...	1019·7	18	SSE	3	o	1014·6	−3	18	+17	SE	4	S	2	*	9
	Nicolaiev ...	1017·7	27	SSE	3	o	1013·5	*	28	+19	SE	2	S	4	*	7
	Odessa	1016·6	34	S	3	o	1013·2	−2	32	+9	SW	1	S	7	*	23
	Tarkhankout...	1018·4	37	SSE	4	o	1014·9	*	41	+18	S	4	o	—	*	21
	Soukhoum ...														*	
Mediterranean.	Venice	1015·5	43	—	o	b	1016·9	*	37	+1	NNE	1	b	—	50	36
	Pesaro	1015·8	45	W	1	r	1015·9	*	37	−4	SW	1	bc	2	50	37
	Rome	1015·4	46	—	o	o	1016·9	*	43	+4	NNE	3	o	21	50	39
	Viesti	1015·1	48	—	o	o	1010·5	*	46	+1	NW	1	o	—	52	43
	Brindisi	1015·8	48	SW	1	bc	1010·9	*	46	+5	SSE	1	m	—	55	41
	Cagliari	1018·2	57	NNW	3	b	1011·5	*	50	+2	NW	3	bc	1	63	48
	Palermo	1018·6	48	—	o	b	1016·9	*	50	+7	ENE	2	o	—	59	37
	Tripoli						1011·3	*	63	+10	SE	1	o	Trace	68	53
	Algiers	1016·6	55	E	1	o	1017·3	+1	54	o	E	2	c	—	63	52
Sweden.	Hernösand ...	1017·2	28	W	2	b	1019·0	*	23	−7	—	o	f	*	*	*
	Stockholm ...	1015·1	30	W	2	b	1017·3	*	25	−7	NNE	2	o	*	*	*
	Wisby	1072·2	34	NE	6	b	1012·7	*	30	−2	NNE	6	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	984·2	23	−13	NW	9	s
Reykjavik	992·3	39	−7	WSW	8	bc
Vestmanna	996·3	30	−7	W	7	o
Seydisfjord	994·0	32	−14	NW	6	b
Thorshavn	1006·0	36	−11	WNW	3	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h	Day. 9h-18h.	Temperature Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	4	~	46	42	c.b	c.b	6·6
	Banff	—	Trace	45	38	bcpd	bc.b	4·3
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	—	—	51	40	b	c	5·6
England N.E.	Harrogate	—	—	45	36	bc.c	o.c.bc	2·2
	Skegness	—	Trace	?	36	oc	or	1·2
England N.W.	Morecambe	—	Trace	45	40	—	—	2·0
	Southport	—	—	42	39	o	o.c.bc.c	0·2
Midlands.	Leamington Spa							
	Malvern	Trace	Trace	49	35	o.c.bc	bc.c.o	1·1
	Ross-on-Wye	—	—	49	38	bc	bc.m.c	0·5
Wales.	Rhyl	—	Trace	47	37	c.o	od.c.o	0·0
	Colwyn Bay...	*	*	47	39	bc	c	0·0
	Llandudno	*	*	46	38	c	cu	0·0
	Aberystwyth	*	*	42	39	o.c	or.o	0·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England E.	Lowestoft	—	—	44	39	o	o	0·0
	Felixstowe	—	—	44	36	om	om	0·0
	Walton-on-Naze	—	—	43	38	bc.c	bc.c.o	0·0
	Southend-on-Sea	—	—	45	36	oz	oz	0·0
England, S.E.	Margate	—	—	43	37	o	o	0·0
	Ramsgate							
	Hastings	—	—	44	40	o	o	0·0
	Eastbourne	—	—	44	41	o.c	mg	0·0
	Seaford	*	*	43	39	o	o	0·0
	Brighton	—	—	43	38	o	g	0·0
	Worthing	—	—	44	41	o	o	0·1
	Littlehampton	—	—	43	39	o	o	0·0
	Bognor	*	*	49	40	g	g	0·0
	Bournemouth	—	—	47	39	o	o	0·3
England S.W.	Weymouth...	*	*	45	39	o.c	cz	0·0
	Torquay							
	Paignton	*	*					
	Penzance	—	—	47	43	o	o	0·0
	Newquay	—	—	47	?	o	o	0·0
	Bude							
	Ilfracombe	—	—	46	41	o	o	0·0
	Weston-s-Mare	—	—	47	42	o.c.bc	b.bc.c	0·7

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

1st and 2nd March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.43	12.6	5.29
	6.40	12.5	5.30
Greenwich	6.49	12.13	5.37
	6.46	12.12	5.38
Wick	7.11	12.25	5.39
	7.8	11.24	5.41
Valencia	7.31	12.54	6.17
	7.28	12.53	6.18

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 45° and 50° in most districts. Slight rain fell locally; little or no bright sunshine was recorded except in Scotland.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 61

Friday 2nd March

	STATIONS	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F	Wind: Direc.	Wind: Force 0–12	Weather.	THIS MORNING: Barometre. Millibars at M.S.L.	Barometre. 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 ...	1021·3	43	SSW	4	bc	1017·3	−1	41	+1	SSW	5	S	bc	5	—	46	40	bc	bc	bc	*
	Deerness (Orkney)	1020·3	40	SE	4	b	1014·9	*	41	+5	S	6	—	c	5	—	46	36	b	b	b bc c	8·9
	Stornoway ...	1017·1	43	S	5	bcq	1010·9	+1	45	+5	S	7	—	odpq	5	0·3	46	40	bcq	bcq	odpd	6·0
	Castlebay (Barra Isd.)	1016·9	44	S	5	o	1011·6	0	46	+2	S	5	—	o	5	0·3	46	45	c. b	b. o	bcopd	5·6.
	Glasgow ...	1021·5	39	SE	1	oz	1017·6	−1	37	+7	E	1	—	omd	*	2	44	29	bf. cz	c. oz.	omp	2·2
	Eskdalemuir ...	1023·0	34	—	o	c	1018·8	−2	35	+11	—	o	—	om	*	1	43	23	bc. b	b. bc	c. o. om	5·9
	Malin Head ...	1017·1	44	S	3	cp	1012·0	−2	43	+6	S	5	S	cq	4	0·3	46	37	bc	bc	cq	2·7
	Blacksod Point	1014·5	46	S	4	om	1009·1	−3	44	+3	S	6	—	omd	5	2	47	40	cq	c.m.q.p	omqp	*
	Valencia ...	1018·9	48	S	3	o	1012·5	−4	46	+6	SSE	4	—	r	5	3	50	40	o	o.	o. or	0·9
	Roche's Point	1021·6	45	SSW	3	o	1016·2	*	45	+1	SSW	4	—	o	3	1	49	43	odf	o. c. o.	o	*
	Birr Castle ...	1020·1	48	SW	1	o	1014·5	*	42	+9	S	1	—	o	*	0·2	50	32	o	o	od c	0·0
	Donaghadee ...	1019·6	42	S	3	om	1015·3	o	42	+2	S	2	—	omdp	2	2	45	39	o.g.m	e.m.p.om	omdp	*
	Liverpool (Bidston)	1022·7	44	SE	2	o	1019·3	−2	39	+3	ESE	3	—	r	2	2	46	36	o. bc.	c. bc.	c. or	1·0
	Holyhead ...	1021·4	44	S	4	og	1017·2	−2	42	+2	SSW	5	—	bc	4	1	49	38	o. c. bc	c. bed.	ofp.c	3·5
	Pembroke (St. Ann's)	1023·9	43	SW	3	c	1018·8	−3	43	0	SW	3	SW	c	2	5	44	43	fd	o. fd.	o s.	0·0
	Scilly (St. Mary's)	1024·0	46	WSW	1	c	1019·4	−2	45	0	SSW	2	SW	c	3	—	50	44	c	c	c	0·1
	Falmouth ...	1024·2	46	W	2	o	1018·7	—	42	−2	WSW	3	—	o	*	—	50	41	o	o	o	0·0
	Jersey (St. Aubin)	1024·1	46	NW	2	c	1020·1	*	40	−3	NW	2	—	oem	1	2	48	40	o do	oc	ogpem	0·0
	Portland Bill ...	1023·9	42	SE	1	o	1020·3	−2	40	0	—	0	N	o	1	1	46	39	c. o	c.	o	*
	Dungeness ...	1024·1	44	E	2	b	1021·4	−1	38	−3	—	0	—	c	0	—	45	37	cb	c	cm bez	*
	Dover	1024·7	39	E	1	m	1021·1	−1	34	−6	—	0	—	f	2	—	49	33	cb	bz	hm f	5·6
	Wick	1019·9	42	SSE	3	b	1014·8	−2	40	+6	SSE	4	—	c	4	—	43	33	bm	bm	bcm	*
	Nairn	1019·2	36	—	0	bc	1014·8	*	38	+7	—	0	—	bc	1	—	47	29	bc. b	bc. b. bc	bcx	8·0
	Aberdeen	1022·3	40	S	2	b	1018·3	−1	40	+7	S	3	W	bcm	2	—	48	31	bx z b	bz	bz bcm	8·2
	Leith	1021·2	41	W	1	b	1017·4	−1	39	+7	S	1	—	om	1	—	47	31	bez. bc	bc bz. b	bc. amo	*
	Tynemouth ...	1023·3	41	S	2	cm	1019·6	−3	36	0	S	2	—	cm	3	—	46	35	c. or	cm	bm	*
	Spurn Head ...	1024·6	39	SSE	2	bc	1021·4	0	32	−4	S	1	—	f	3	—	46	30	bc	bc	bc	3·8
	Yarmouth ...	1024·1	38	NE	2	bc	1019·8	−2	30	−5	NW	1	—	fx	2	—	45	28	bf	bcm	bcfx	7·2
	Clacton-on-Sea	1024·2	39	E	2	o	1020·9	−1	38	−1	ENE	2	—	f	2	—	46	31	bc.	bc. c. o	o. bcxf	5·3
	Nottingham ...	1023·6	43	SSE	1	o	1020·0	*	35	+2	E	1	E	bc	*	—	47	32	co.	o c.	o	0·4
	Benson (Oxon.) ...	1023·8	43	—	0	o	1018·7	−1	39	+8	SE	2	—	om	*	1	46	31	o. b. o.	o.	or	*
	Sth Farnborough	1023·3	39	—	o	o	1019·4	−2	36	+2	SSE	2	—	odm	*	0·3	44	33	om	o g m	omd m	0·3
	London (Kew Obsy.)	1023·8	42	—	o	om	1020·0	−2	39	−1	SSW	1	—	om	*	1	44	39	om bz	bz. o z g	om a m. em	0·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1025·0	34	—	o	o	1024·2	−2	32	−2	NW	1	—	bc	1	—	34	32				
	Blaavands Huk	1021·7	34	ESE	1	o	1023·8	o	30	−6	SE	2	—	c	3	Trace	41	28				
	Copenhagen ...	1024·0	32	ESE	2	b	1023·8	−1	30	−2	NNW	2	—	m	*	—	34	27				
	Bornholm ...	1023·5	28	E	1	m	1022·1	−2	28	−2	W	3	—	m		—	32	25				
FRANCE, &c.	The Helder ...	1022·1	36	NW	1	b	1020·2	o	34	−2	ENE	3	—	m	1	—	39	34				
	C. Gris Nez ...	1023·7	36	NE	2	m	1020·3	−2	32	−7	ENE	2	*	f	2	—	43	32				
	La Hève	1026·3	42	NNW	3	bc	021·2	*	37	−3	—	o	*	m	o	—	50	36				
	Brest (St. Mathieu)	1026·4	45	SW	1	o	1020·4	−2	42	−3	NE	1	*	o	2	—	48	41				
	Rochefort (Ile d'Aix)												*		*							
	Biarritz	1020·2	46	NNE	3	b	1016·8	−1	36	+2	E	2	*	b	2	—	52	36				
	Paris	1022·9	37	NNE	2	b	1020·2	−1	30	−7	NNE	1	—	f	*	1	48	28				
	Belfort							*					*		*							
	Lyons	1021·0	40	NNE	2	o	1018·0	*	35	+1	—	o	*	o	*	—	48	33				
	Nice												*									
	Perpignan ...	1017·3	48	NW	4	b	1015·9	−1	39	−4	W	2	—	b	*	—	59	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1017·9	55	N	3	b	1016·7	0	41	+2	ESE	1	—	b	2	—	57	37				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar	1014·9	55	SE	5	c	1014·9	*	52	−4	NW	7	*	bc	o	—	57	51				
	Malta	*	*	*	*	*	1009·2	+1	50	−2	WNW	3	—	bc	3	—	55	48				
	Limassol	*	*	*	*	*	1010·3	−1	61	+4	E	1	—	b	3	—	63	50				
	Alexandria ...														*							
	Cairo (Helwan) ...																					

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	67	90	2·6	48	38	35	—	o.c	oc.o.	op
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	58	88	0·0	46	40	37	—	om	om	oem fg
CAMDEN SQ. (British Rainfall) ...	88	95	2·1	47	39	35	Trace	o.bc.	bc.o	*
HAMPSTEAD (Reservoir)	*	79	1·8	40	36	29	—	bco.	o	of
S. KENSINGTON (Museum Grounds)	*	87	0·0	47	39	37	Trace	.om	om.og	c.o.or
RICHMOND PARK	*	*		*	*	*	*	*	*	*

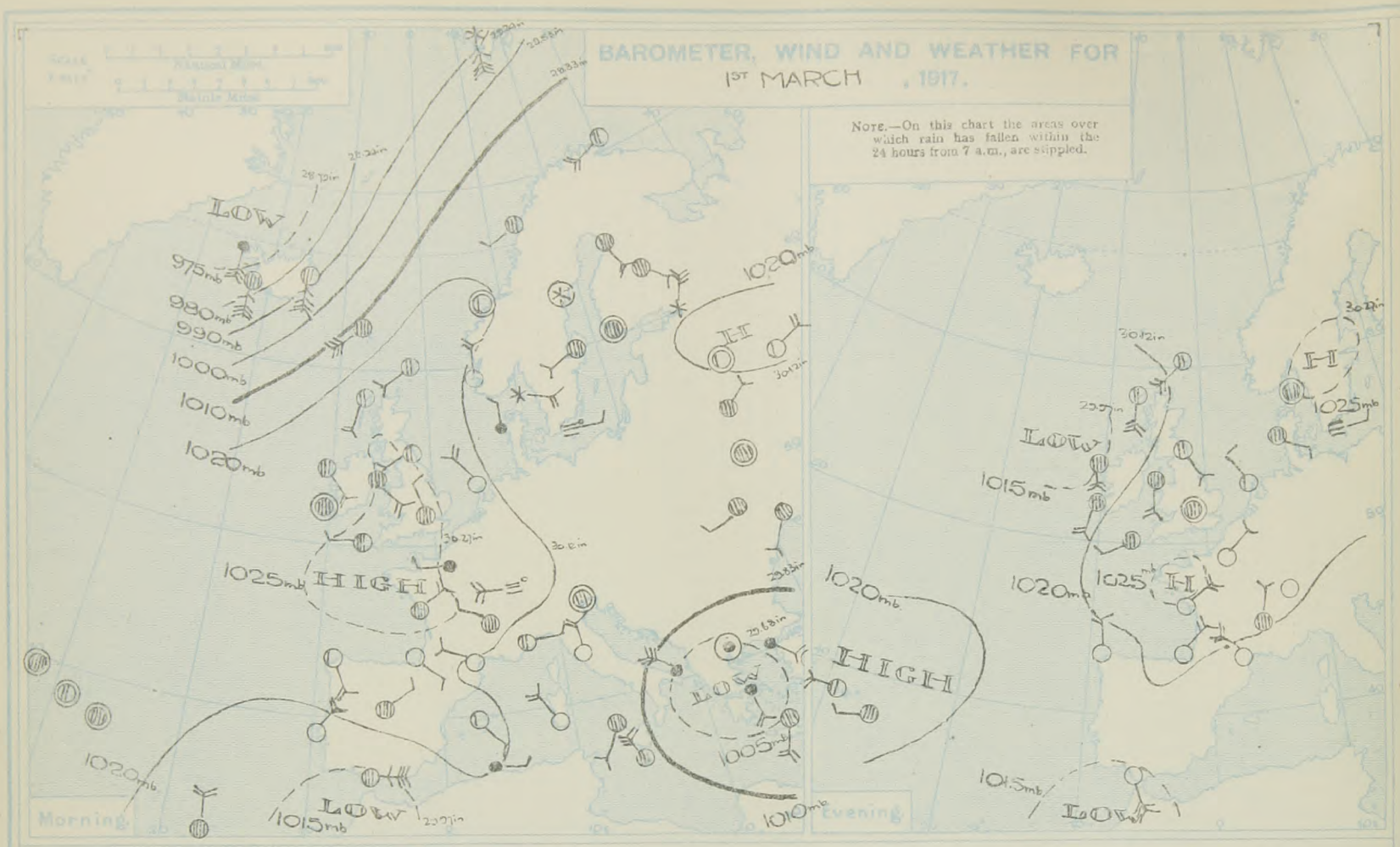
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
158	4·1	13·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued

0 a, b 1	South and South-Westerly winds, moderate or fresh, strong locally; changeable, rain at times; mild.
2 a, b	Wind South or South-West, light or moderate; dull, some rain, mist locally. Milder
3 4 a, b, c 5	Wind becoming Westerly to Southerly, light; dull, some light rain, mist or fog locally. Milder.
6 a, b 7 a, b	Same as 0 - 1
8 a, b	Same as 2
9 a, b 10 a, b	Same as 0 - 1
Western Channel and Bay 11	South-West wind, light or moderate, mouth of Channel. North-East and East, light further South; cloudy; some rain

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 2ND MARCH, 1917.

GENERAL INFERENCE

It appears probable that the depression on the Atlantic will continue to move or extend Eastward slowly, and affect the conditions over the South-East of England.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Scale 1 : 9,430,000
Nautical Miles 0 100 200 300 400 500
Statute Miles 0 100 200 300 400 500

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

LOW 30
990mb
995mb
1000mb
1005mb
1010mb.
1015mb.
1020mb
29.24in
29.38in
29.53in
29.68in
29.83in
29.77in
30.12in
30.27in
29.97in
29.93in
Barometer HIGH
falling
HIGH
generally
LOW
40°
32°
130.2in
26
50
52

Issue No. 20,189 — DAILY WEATHER REPORT. — Friday, 2nd. March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1025·5	12	S	2	S									*	
	Gorki	1012·6	18	SSE	1	c	1013·0	0	12	-4	NE	2	c	2	*	7
	Velieki Luki	1016·3	12	–	c	b	1020·6	*	-4	–	–	c	b	–	*	-4
	Hangö	1017·6	19	–	c	c	1018·1	+1	19	-2	–	c	c	–	*	18
	Riga	1014·6	28	E	1	c	1017·6	+1	27	-3	–	c	c	–	*	27
	Petrograd	1017·9	19	SE	3	c	1019·4	+1	10	-7	NNE	5	S	1	23	10
	Moscow	1020·8	3	NE	2	b	1022·0	0	-2	-9	ENE	3	b	–	*	-4
	Kiev	1013·9	19	SSE	2	S	1013·7	+2	19	-4	–	c	c	1	*	19
	Kharkov	1015·8	16	ESE	2	S	1015·7	+1	16	0	E	1	c	2	*	16
	Kishinev	1013·5	27	–	c	c	1015·8	+2	23	+7	N	2	c	–	*	14
	Elisabetgrad	1013·0	27	WNW	2	c	1016·7	+3	14	-4	NW	3	f	1	*	12
	Nicolaiev	1012·7	32	NW	2	c	1016·3	*	25	-3	–	c	bc	9	*	23
	Odessa	1013·6	28	SW	2	b	1017·0	+2	23	-9	SW	2	c	3	*	21
	Tarkhankout	1014·3	39	SW	4	c	1016·0	*	46	+5	NNE	4	c	–	*	28
	Soukhoum	1015·3	39	NE	2	bc	1016·3	+1	37	–	–	c	c	9	*	34
Mediterranean.	Venice	1016·7	45	SW	1	b	1017·4	*	37	c	–	c	c	–	50	36
	Pesaro	1017·0	43	N	1	c	1017·0	*	32	-5	–	c	bc	–	50	28
	Rome	1013·1	43	N	3	b	1014·9	*	40	-3	N	3	b	–	50	37
	Viesti	1010·7	45	NW	b	c	1010·6	*	43	-3	NNW	b	b	7	54	41
	Brindisi	1008·1	50	W	1	c	1008·7	*	43	-3	NW	b	p	3	57	43
	Cagliari	1011·5	55	NW	4	c	1017·4	*	50	c	NW	3	b	–	63	45
	Palermo	1008·7	48	WSW	1	b	1011·5	*	43	-7	SSW	2	c	15	59	39
	Tripoli						1014·6	*	63	c	WNW	3	c	Trace	68	63
	Algiers	1019·5	54	NE	4	bc	1020·0	c	48	-6	E	1	b	–	59	46
Sweden.	Hernösand	1016·3	25	–	c	c	1016·7	*	25	+2	–	c	S	*	*	*
	Stockholm	1016·4	25	NNE	2	c	1018·6	*	21	-4	SW	2	c	*	*	*
	Wisby	1014·3	30	NE	2	c	1017·1	*	30	c	WNW	2	c	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°			
Isafjord	973·2	41	+13	S	6	p
Reykjavik	977·2	36	+6	S	8	c
Vestmanna	983·9	45	+15	W	9	r
Seydisfjord	985·7	50	+18	S	8	c
Thorshavn	1011·8	45	+10	SW	6	c

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	–	–	45	31	b.bc.c		2·7
	Banff	–	–	47	28	b	b	9·1
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	–	–	42	32	c.o	o	0.0
	Skegness	Trace	–	43	34	b	c.b	6·0
Eng. N.W.	Morecambe	–	–	42	29	–	–	1·2
	Southport	–	–	45	30	f.bc.c	c.o	0·2
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	–	–	47	34	bc.c	emp	0·2
Wales.	Rhyl	–	–	51	33	c.bc.c	c.bc.c	1·9
	Colwyn Bay	*	*					
	Llandudno	*	*	51	38	b	bc.b	4·2
	Aberystwyth	*	*	46	37	o.c.o	o.or	0·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h	Rainfall Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	–	43	35	c.bc	bc.c	7·2
	Felixstowe	Trace	–	46	34	bc.f.bc	bc	4·6
	Walton-on-Naze							
	Southend-on-Sea	–	–	49	39	b.bc	b.bc	4·6
England, S.E.	Margate	–	–	?	38	b	b	7·3
	Ramsgate							
	Hastings	–	–	45	39	o.bc	bc.o	2·7
	Eastbourne	–	–	46	39	o.bc	b.bc.o	3·3
	Seaford	*	*	47	38	bc	b	4·5
	Brighton	Trace	–	46	38	c.bc.c	c.o	2·3
	Worthing	–	–	48	35	bc	bc	2·2
	Littlehampton	–	–	45	36	o.bc	bc.o	3·2
	Bognor	*	*	46	36	bc	bcg	2·
	Bournemouth	1	–	48	40	c	c.o	3·
England. S.W.	Plymouth	48	4	48	43	ov.op	o	0.0
	Weymouth	*	*	48	41	bcx	cx	1·1
	Torquay							
	Paignton	*	*	47	41	om	om	0·0
	Penzance	–	–	52	44	o.c	bc.c	1·3
	Newquay	–	–	49	42	o	o	0·0
	Bude							
	Ilfracombe	b	1	46	40	r	r	0·0
	Weston-s-Mare	Trace	1	46	39	cm.bc	c.or	0·0

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

2nd. and 3rd. March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.40	12.5	5.30
	6.38	12.5	5.32
Greenwich	6.46	12.12	5.38
	6.44	12.12	5.40
Wick	7.8	12.24	5.41
	7.5	12.24	5.43
Valencia	7.28	12.53	6.18
	7.26	12.53	6.20

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° in many localities, but slight frost was experienced at several stations in the night. A little rain fell over a considerable area - most in the West. Bright sunshine was rather abundant in the East and North 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.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 62 — Saturday 3rd March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	1016·0	42	S	6	c	1014·2	−1	40	−1	S	6	–	o	6	–	43	40	bc	ba	o	*
	Deerness (Orkney)	1013·5	41	SSE	6	oz	1011·5	*	40	−1	SSE	6	–	oz	5	–	44	40	c	c.o	o	0·0
	Stornoway ...	?	46	SSE	6	oq	1007·6	−1	44	−1	S	6	–	oq	5	0·3	47	44	oq	oq	oq	0·1
	Castlebay (Barra Isd.)	1009·8	45	SE	5	r	1006·7	0	44	−2	SSE	6	–	op	6	2	46	44	op	op.r	d.r.op	0·0
	Glasgow ...	1014·4	42	ESE	1	om	1011·4	−2	38	+1	E	1	–	omq	*	3	43	37	omd	omd.o	o.comq	0·0
	Eskdalemuir ...	1015·1	40	S	2	o	1013·0	−1	31	−4	–	o	SW	bc	*	0·4	41	31	om.odm	om.o	om.cbc	0·0
	Malin Head ...	1008·0	45	S	5	cmq	1005·6	−2	42	−1	S	5	9	cm	5	–	46	40	cq	cmq	om	0·0
	Blacksod Point	1005·1	46	S	6	omr	1000·4	−2	41	−3	SSE	5	–	omp	5	12	46	40	omr	omr	omr.op	*
	Valencia ...	1007·4	46	S	4	r	1000·7	−3	45	−1	SSE	5	–	op	4	15	48	44	op	or	or.p	0·0
	Roche's Point	1011·6	45	SSW	4	o	1004·7	*	44	−1	SE	4	–	o	4	1	47	43	o	om	or.o	*
	Birr Castle ...	1010·2	45	SSW	1	o	1004·8	*	43	+1	SSE	2	–	o	*	0·2	50	40	o	o	om.o	0·0
	Donaghadee ...	1012·4	43	SSE	4	cm	1008·7	−3	41	−1	SSE	4	–	ogfpq	3	1	48	41	cm	cm	ogfpq	*
	Liverpool (Bidston)	1015·3	41	ESE	3	o	1011·7	−2	34	−5	E	3	SE	o	3	1	45	34	od	om	o	0·0
	Holyhead ...	1014·1	43	S	4	cq	1009·6	−1	42	o	SSE	3	–	omq	1	Trace	46	41	bc.o.c	cbc.c.	c.omq	0·8
	Pembroke (St. Ann's)	1014·0	42	S	3	c	1009·3	−2	41	−2	SE	4	SE	c	3	–	44	41	c	c	c.o.c	0·0
	Scilly (St. Mary's)	1013·9	45	S	3	c	1008·2	−1	45	o	SSE	4	S	oq	5	3	50	43	c	cp	cqp.op	0·7
	Falmouth ...	1014·7	43	SW	1	cz	1009·0	–	42	o	SSE	3	–	o	*	Trace	48	41	o.bc.c	c.op.c	c.o.	0·9
	Jersey (St. Aubin)	1016·1	43	ENE	1	o	1011·4	*	39	−1	E	3	E	c	2	Trace	45	38	o.c.o.	o.c.o	o.c.	0·0
	Portland Bill ...	1014·4	42	SW	2	bc	1011·7	−3	38	−2	ESE	4	S	c	4	–	43	38	c	bc.c	c.bc.c	*
	Dungeness ...	1018·0	33	ENE	3	f	1013·2	−1	34	−4	E	3	E	c	2	–	40	32	oc	c.om	om.c.c	*
	Dover	1018·2	33	N	1	o	1013·7	−4	34	o	NE	2	NE	bc	2	–	41	32	cm.bcc	cbc.c.o.	bc	2·4
	Wick	1012·5	42	SSE	4	m	1010·9	o	40	o	SSE	4	–	m	5	–	43	40	cm.oq	omq	co.mq	*
	Nairn	1012·1	46	–	o	cq	1010·1	*	34	−4	–	o	–	cm	1	–	51	31	bc.c	c.bc.cq	c.bcx	3·2
	Aberdeen	1016·2	40	SSE	4	o	1013·7	o	38	−2	SSE	3	S	bc	4	–	43	38	bc.c	cp.	o.c.bc	1·8
	Leith	1014·5	40	E	1	o	1011·7	−1	38	−1	SSE	1	–	om	1	3	43	37	omd.o	omr.o	om.aq.c	*
	Tynemouth ...	1016·6	39	SSE	3	bm	1014·0	−2	31	−5	SW	2	–	bm	3	–	42	31	bcm	bcm	bm	*
	Spurn Head ...	1018·2	35	SSE	1	f	1014·6	−1	35	+3	SE	3	–	c	4	–	36	32	f	f	c	0·0
	Yarmouth ...	1017·5	36	ESE	3	c	1013·8	−2	37	+7	E	3	–	om	2	–	39	27	f.cm	cm	om	0·0
	Clacton-on-Sea	1017·3	38	NE	2	c	1014·6	−1	35	−3	SSE	2	NE	bc	2	–	38	30	c.f.m.bc	bc.c.	cac.bc	3·1
	Nottingham ...	1016·9	38	E	1	b	1014·1	*	31	−4	E	1	–	omx	*	–	46	28	bc.b.	b.	bm	7·6
	Benson (Oxon.) ...	1016·0	40	ESE	2	o	1013·0	−1	31	−8	–	o	–	o	*	–	42	30	o	o	o	*
	Sth Farnborough	1015·8	40	SE	1	o	1013·5	−2	30	−6	–	o	–	omx	*	0·2	40	28	od. dm	odm	o.bc	0·0
	London (Kew Obsy.)	1016·8	39	ESE	3	om	1013·3	−1	33	−6	S	1	–	om	*	Trace	42	32	om	om	om.bm.om	0·0
NORTHERN EUROPE.	Spitsbergen ...	994·3	36	SE	8	r	1006·4	+12	14	+5	N	6	*	o	*	*	36	3				
	Vardö	1014·9	23	WSW	2	o	1027·7	o	18	‡3	SW	5	–	b	4	*	23	18				
	Bodö	1024·6	36	E	4	b	1027·0	+1	27	−9	E	4	–	b	2	–	37	25				
	Christiansund ...	1023·0	34	–	o	b	1022·1	o	34	+2	–	o	–	b	3	–	39	30				
	Skudesnaes ...	1021·9	37	–	o	b	1021·7	o	32	−5	SE	4	–	c	2	–	41	32				
	Færder (X'tania Fjord)	1025·5	30	E	4	o	1026·3	+1	23	−5	ENE	5	–	o	2	–	30	23				
	The Scaw (Skagen)	1022·6	28	NE	4	bc	1022·3	o	27	−5	ENE	6	–	o	6	–	37	27				
	Blaavands Huk	1021·7	34	ENE	1	o	1019·3	−1	30	o	E	1	–	s	1	Trace	39	28				
	Copenhagen ...	1014·1	32	E	2	s	1019·9	+1	32	+2	SE	3	–	s	*	1	34	30				
	Bornholm ...	1019·1	30	ENE	4	s	1019·3	+1	30	+2	SE	4	–	s	1	3	30	27				
FRANCE, &c.	The Helder ...	1017·5	36	NE	2	o	1015·5	o	30	−4	E	3	–	o	1	–	36	30				
	C. Gris Nez ...	1016·3	34	NE	2	o	1013·3	−1	32	o	E	2	*	o	–	–	39	32				
	La Hève	1017·2	38	ENE	1	m	1013·7	*	30	−7	E	3	*	m	2	–	48	28				
	Brest (St. Mathieu)	1015·4	45	S	3	o	1009·9	−1	41	−1	?SE	4	*	o	3	–	48	39				
	Rochefort (Ile d'Aix)	1014·3	45	NNE	3	bc	1010·7	o	32	−7	E	2	*	b	*	–	52	32				
	Biarritz	1012·7	46	N	2	b	1007·9	−1	34	−2	E	2	*	b		–	52	34				
	Paris	1015·9	32	ENE	1	b	1012·6	o	32	+2	ENE	1	–	o	*	–	39	28				
	Belfort	1014·6	32	–	o	s	1011·8	*	28	−4	E	2	*	m	*	3	50	28				
	Lyons	1013·5	36	–	o	o	1010·0	*	32	−3	N	2	*	c	*	–	42	28				
	Nice	1010·4	43	–	o	r	1006·3	−2	37	o	–	o	*	r	2	8	54	37				
	Perpignan ...	1011·3	46	–	o	o	1008·3	−2	37	−2	WNW	1	W	bc	*	–	54	32				
	Sanguinaire ...	*	.	.	.	.	*	*	.	.	.	.	*	.	2	–	61	45				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1010·1	57	SSW	2	b	1011·1	+1	37	o	W	1	–	b	*	–	57	36				
	Lisbon																					
	Azores (Horta) ...	1017·6	*	ENE	4	o							*									
	Madeira																					
	Gibraltar								*				*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1013·7	+3	55	−6	W	1	W	bc	4	4	68	45				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning	Afternoon.	Night.
	%	%	Hours	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	93	0·0	42	30	25	–	o	of	o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*			
WESTMINSTER (St. James's Park)	83	70	0·0	42	33	32	–	om	om	obc.om
CAMDEN SQ. (British Rainfall) ...	88	84	0·0	41	32	28	–	odf.o	o	*
HAMPSTEAD (Reservoir)	*	94	0·0	38	29	24	–	ofe	of	ofx
S. KENSINGTON (Museum Grounds)	*	86	0·0	42	33	31	–	ogf	og	c.o.of
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
93	2·4	9·5

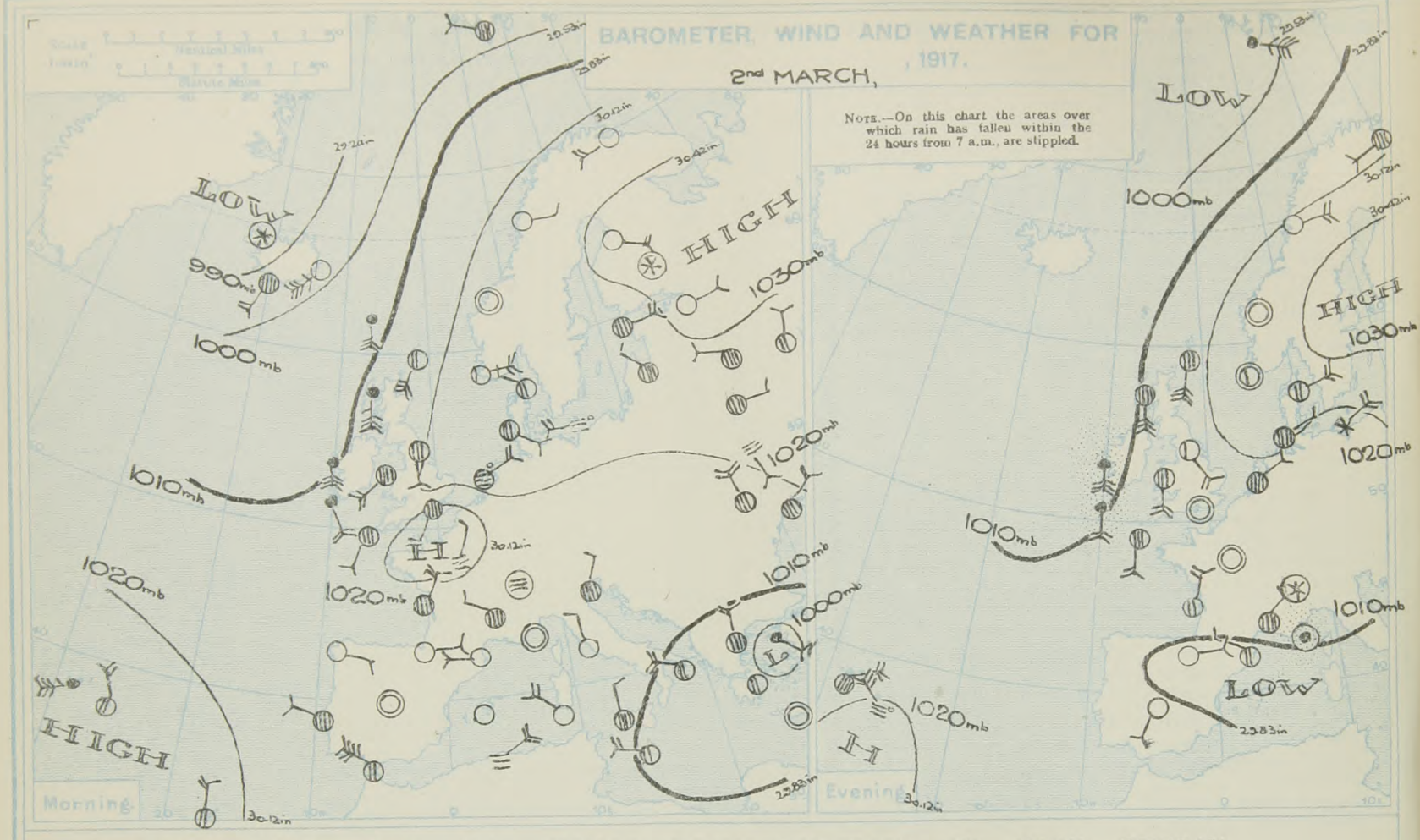
Temperatures at Greenwich and Camden Square are from Glaisher screens.

RAINFALL.

Equivalents of Millimetres in Inches.

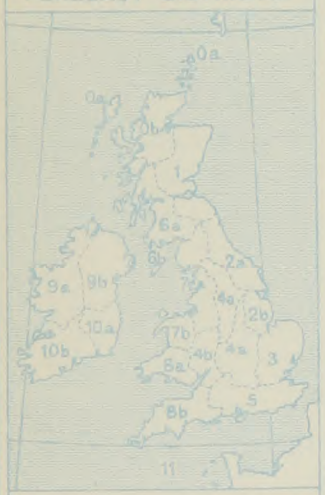
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



0 a, b 1	Wind between South and South-East, moderate or fresh, strong locally; cloudy, local showers, some mist; moderate temperature.
2 a, b	South-East winds, light or moderate fair, mist locally; rather cold.
3 4 a, b, c 5	Wind light or moderate, from some Easterly point; much cloud, mist locally; rather cold.
6 a, b 7 a, b	South or South-East winds, light to fresh; much cloud, some showers; moderate temperature.
8 a, b	South-Easterly winds, moderate; cloudy or dull; moderate temperature.
9 a, b 10 a, b	Same as 0 - 1
11	South-East winds, moderate or fresh; sea rather rough or moderate; cloudy or overcast.

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

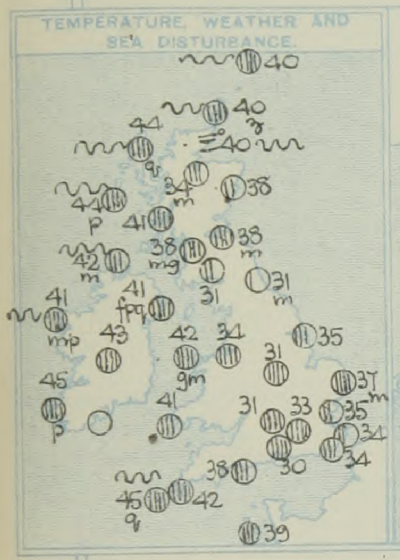
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 3RD MARCH, 1917.

GENERAL INFERENCE.

The general distribution of pressure is likely to undergo little modification.



EXPLANATION.

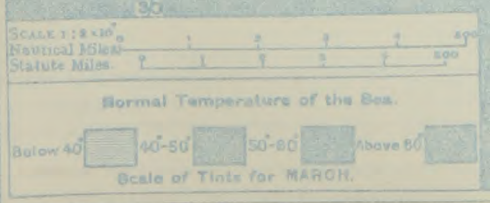
BAROMETER.—Isobars are drawn for intervals of five millibars.

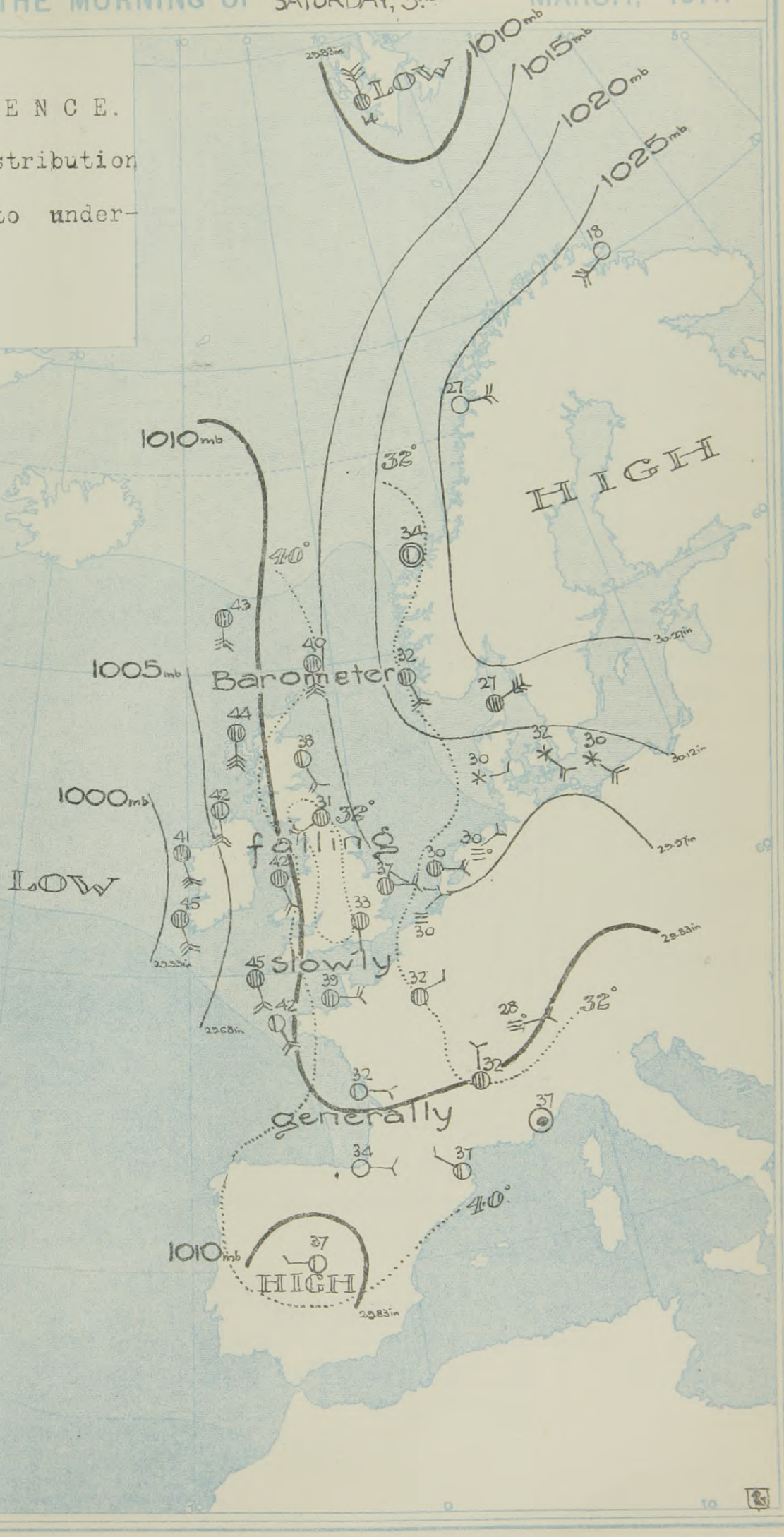
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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. 20,190

DAILY WEATHER REPORT.

Saturday, 3rd March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0–12.	Weather.	Morning: 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.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	?	-6	E	2	b	1035·8	+2	-20	-	E	2	b	—	*	-22
	Gorki	1020·0	3	N	1	o	1021·0	—	5	-7	E	1	o	—	*	3
	Velieki Luki ...	1024·3	-2	-	o	b	1027·9	*	-9	-5	WNW	2	o	—	*	-9
	Hangö	1022·6	27	-	o	s	1025·7	+1	16	-3	E	3	o	1	*	-4
	Riga	1022·1	27	-	o	o	1021·9	o	21	-6	-	o	o	2	*	21
	Petrograd ...	1026·0	10	SE	4	s	1031·4	+2	-2	-12	E	2	b	1		-4
	Moscow	1026·1	-2	ENE	2	b	1025·2	+1	-8	-6	NNE	2	bc	—	*	-9
	Kiev	1021·1	25	S	1	f	1020·7	-1	25	+6	S	2	f	—	*	18
	Kharkov ...	1022·6	10	N	2	o	1022·4	o	14	-2	-	o	o	—	*	9
	Kishinev ...	1018·6	28	-	o	o	1016·6	-3	23	o	N	4	c	—	*	23
	Elisabetgrad ...	1021·7	10	-	o	b	1021·3	-1	1	-13	NW	1	o	—	*	1
	Nicolaiev ...	1021·0	19	NE	2	b	1017·5	*	14	-11	NE	4	c	—	*	12
	Odessa	1019·5	25	ENE	3	o	1016·2	-4	19	-4	ENE	3	o	—	*	18
	Tarkhankout...	1017·1	30	SSE	5	o		*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1016·1	43	-	o	o	1015·9	*	37	o	NNE	1	o	—	46	36
	Pesaro	1016·6	36	W	1	bc	1016·3	*	30	-2	WSW	1	o	—	46	28
	Rome	1014·7	43	N	1	b	1013·3	*	36	-4	N	1	b	—	52	34
	Viesti	1011·8	46	NNW	6	bc	1010·7	*	43	o	NW	6	bc	—	?	?
	Brindisi	1006·5	48	NNW	4	o	1006·9	*	47	+4	WNW	4	bc	5	48	43
	Cagliari	1018·1	55	NW	4	b	1012·1	*	50	o	NW	3	o	—	58	35
	Palermo						1012·2	*	46	+3	N	1	o	—	52	37
	Tripoli						1013·5	*	51	-6	S	1	o	—	66	52
	Algiers	1015·3	54	ENE	4	b	1011·9	-1	50	+2	ENE	4	f	—	55	48
SWEDEN.	Hernösand ...	1029·9	27	-	o	o	1021·9	*	30	+5	-	o	b	*	*	*
	Stockholm ...	1024·2	27	NE	2	o	1022·0	*	27	+6	WNW	2	o	*	*	*
	Wisby	1019·8	30	N	2	o	1021·1	*	27	-3	-	o	o	*	*	*

ICELAND.	Morning: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	986·6	30	-11	-	o	s
Reykjavik	990·1	30	-6	SSW	3	o
Vestmanna	991·8	34	-11	NW	7	o
Seydisfjord	992·7	41	-9	SW	8	b
Thorshavn	1004·6	54	-9	S	1	r

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall: Night. 18h-9h.	Rainfall: Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	—	—	46	32	o.bc.b	b	1·2
	Banff	-	-	46	33	c.bc	bc	2·2
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	—	—	44	32	o	c	0.0
Eng. N.E.	Harrogate	-	-	45	29	om.bcb	b.bc	4.2
	Skegness	Trace	—	36	30	bf	b	4.9
Eng. N.W.	Morecambe							
	Southport	2	-	46	38	o	o	0.0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	3	1	45	40	cmr	cmr	0.0
Wales.	Rhyl	—	—	48	36	c.o	c.od	0.0
	Colwyn Bay...	*	*					
	Llandudno	*	*	48	40	c	c	0.0
	Aberystwyth	*	*	47	41	ro.c	c.o	0.0
	Tenby							

	STATIONS.	Rainfall: Night. 18h-9h.	Rainfall: Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	-	-	39	28	c	c.o	1·8
	Felixstowe	—	-	40	28	fbcm	c.o.m	2·4
	Walton-on-Naze							
	Southend-on-Sea	—	-	41	37	o.c.bc	o.c.bcf	3·5
England. S.E.	Margate	—	-	40	33	of	ofz	0.0
	Ramsgate							
	Hastings	1	—	40	36	o.po	c.o	0.6
	Eastbourne	Trace	—	44	37	o.c	o	0.0
	Seaford	*	*	42	37	o	o	0.0
	Brighton	—	-	41	38	og	og	0.0
	Worthing	1	-	40	38	o	o	0.0
	Littlehampton	1	—	39	38	o	o	0.0
	Bognor	*	*	45	43	od	od	0.0
	Bournemouth	2	Trace	44	39	o	o	0.0
England. S.W.	Weymouth...	*	*	47	40	cem	c.bcz	0·3
	Torquay	—	-	45	41	o	o	0.0
	Paignton	*	*					
	Penzance	—	-	49	43	c	c.o	0·5
	Newquay	—	1	47	39	cp	c.op	0·3
	Bude	—	3	48	40	c	cr	2·3
	Ilfracombe	7	Trace	48	40	bc.or	op	1·4
	Weston-s-Mare	10	-	50	39	c.bc	bc.b.c	1.0

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

3rd and 4th March, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.38	12.5	5.32
	6.36	12.5	5.34
Greenwich	6.44	12.12	5.40
	6.42	12.12	5.42
Wick	7.6	12.24	5.43
	7.3	12.24	5.45
Valencia	7.26	12.53	6.20
	7.24	12.53	6.22

NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° at a few of our stations. Some rain fall in the extreme West and North. Little or no bright sunshine was recorded except at Nottingham.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 63

Sunday 4th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.				‡		°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·7	38	SSE	6	bc	1013·5	0	36	−4	SSE	8	S	bc	8	2	41	35	ocp	⊙.bc	bcp	*
	Deerness (Orkney)	1010·1	39	SE	6	o	1009·1	*	38	−2	SE	6	—	cg	5	Trace	42	36	o.c	co	cg	0·7
	Stornoway ...	1004·5	44	SSE	6	opm	1002·1	−1	38	−6	SE	6	—	bc	4	0·3	45	38	o.c	cpm	o.bc	0·7
	Castlebay (Barra Isd.)	1002·8	42	SE	6	opm	1000·2	−1	39	−5	SE	7	—	cm	7	0·4	44	38	opm	opm	opm	0·0
	Glasgow ...	1008·9	38	SE	1	cmq	1005·7	−3	34	−4	ESE	3	—	cmq	*	Trace	39	32	cm	c.dmq.p.	cmq	0·0
	Eskdalemuir ...	1010·0	35	SE	4	o	1006·9	−2	32	+1	SE	3	—	o	*	—	39	30	bc	bc.co	o.co	3·2
	Malin Head ...	999·5	42	S	6	cmq	995·5	−3	38	−4	SSE	6	—	cmq	6	0·1	45	37	cmq	cmq	cmq	0·0
	Blacksod Point	998·6	40	NNW	3	bcp	986·6	−5	40	+1	SE	7	—	cmc	8	3	44	37	cmr	cmr	bc.cmc	*
	Valencia ...	999·8	42	NW	1	c	982·7	−6	42	−3	SE	1	—	or	5	12	48	37	orp.b	bc.b.bc	bc.cor	3·2
	Roche's Point	1000·8	43	SSE	4	r	988·2	*	44	0	SE	9	—	r	6	19	46	42	or	r	r.or	*
	Birr Castle ...	1001·2	46	SSE	1	r	990·7	*	40	−3	SE	4	—	r	*	9	46	40	or	or	or	0·0
	Donaghadee ...	1005·4	40	SSE	7 6	cfqr	1000·5	−3	37	−4	SE	6	—	cfq	4	1	42	37	cfq	cfq.p	cpfq	*
	Liverpool (Bidston)	1009·0	37	ESE	4	cq	1004·8	−2	33	−1	E	6	E	cq	4	—	40	32	oc.	o.	cq.	⊙7
	Holyhead ...	1006·1	42	SSE	4	cqm	1000·4	−3	34	−5	SE	4	—	b	4	—	44	36	o.co	c.cm	oc.bc.b	0·2
	Pembroke (St. Ann's)	1006·0	40	SE	4	c	997·9	−6	38	−3	ESE	6	SE	cq	5	0·2	42	35	co.c	oc	cq.cq	0·0
	Scilly (St. Mary's)	1003·0	46	SSE	5	m	993·0	−4	45	0	SSE	7	S	rmqq	6	1	48	43	om.cm	om	orqm	0·6
	Falmouth ...	1006·5	43	SE	4	o	997·0	?	41	−1	SE	7	—	cq	*	1	48	40	o.bc.c	cp	ocp.cq	2·0
	Jersey (St. Aubin)	1008·7	43	E	3	c	1003·1	*	35	−4	E	5	E	bc	4	—	44	34	c.b	bcm	b.c.bc	4·7
	Portland Bill ...	1009·1	39	ESE	4	c	1003·2	−3	37	−1	ESE	5	SE	c	4	—	40	35	c	c	c.o	*
	Dungeness ...	1011·3	36	E	3	bc	1008·4	−1	33	−1	SE	4	—	cq	3	—	40	33	q.b	bq	oc	*
	Dover	1012·5	35	ESE	2	c	1009·3	−3	33	−1	ESE	3	—	m	4	—	41	32	bc	bc.c	c.om	5·2
	Wick	1010·0	39	SSE	4	o	1008·2	0	38	−2	SSE	5	—	o	5	—	42	37	omqq	omq	cm.qqr	*
	Nairn	1007·8	37	SSE	2	cm	1006·0	*	35	+1	SSE	2	—	cq	2	—	46	33	bc.bcq	bc.c	c.bc	3·7
	Aberdeen	1012·1	38	SSE	6	oqhp	1009·9	0	38	0	SE	7	—	cq	5	1	41	36	bc.odq	oq.ps	oqp	1·0
	Leith	1009·5	38	SE	2	bc	1006·8	−1	35	−3	SE	2	—	o	3	—	45	34	om.c.bc	bc.b.bc	bc.qo	*
	Tynemouth ...	1011·4	37	SSE	3	m	?1001·0	−1	37	+6	SSE	4	—	mq	4	—	37	30	cm	opm	omq	*
	Spurn Head ...	1011·7	36	SE	4	o	1009·5	−1	36	+1	SE	5	—	o	5	0	36	35	o	o	o	0·0
	Yarmouth ...	1011·7	35	SSE	2	o	1010·3	−1	35	−2	SSE	5	—	om	5	1	39	34	odm	om	om	0·0
	Clacton-on-Sea	1012·0	37	ESE	2	o	1009·8	−2	36	+1	SE	4	SE	o	3	—	40	35	bc.c.bc	bc.co	cq	4·3
	Nottingham ...	1011·1	36	SE	1	o	1007·8	*	33	+2	SE	3	SE	c	*	Trace	37	31	oc	o	o	0·0
	Benson (Oxon.) ...	1010·8	36	SE	1	o	1006·4	−2	32	+1	E	4	—	o	*	—	39	31	o.co	o	o	*
	Sth Farnborough	1010·5	37	SE	1	o	1006·9	−2	32	+2	ESE	3	—	o	*	—	41	30	o.bc	bc.om	o.c.o	1·3
	London (Kew Obsy.)	1011·4	38	SSE	2	o	1007·4	−2	34	+1	SE	3	—	om	*	—	39	32	om.cm.om	om.cm.om	om.qm.cm	0·6
NORTHERN EUROPE.	Spitsbergen ...	1019·0	25	N	3	o	1020·7	0	23	+9	—	0	*	o	*	*	25	10				
	Vardö	1031·9	23	—	0	b	1034·7	+3	27	+9	SW	1	—	o	3	*	23	18				
	Bodö	1029·0	39	E	2	b	1031·9	0	19	−8	?E	2	—	b	2	—	30	18				
	Christiansund ...	1024·0	32	SSE	1	b	1027·3	0	28	−6	SE	2	—	b	3	—	36	28				
	Skudesnaes ...	1023·0	30	SE	4	c	1025·3	+1	25	−7	ESE	4	—	b	3	—	36	25				
	Færder (X'tania Fjord)	1030·4	23	ENE	5	o	1032·4	0	19	−4	NE	6	—	o	2	Trace	27	18				
	The Scaw (Skagen)	1026·9	28	ESE	5	o	1029·0	0	23	−4	E	5	NE	o	5	—	32	23				
	Blaavands Huk	1019·1	30	ESE	3	c	1022·0	0	23	−7	ESE	4	—	o	4	Trace	36	23				
	Copenhagen ...	1023·0	27	ESE	6	o	1025·3	0	23	−9	ENE	6	—	s	*	1	36	21				
	Bornholm ...	1021·7	23	E	10	c	1022·9	+1	23	−7	ESE	7	—	s	2	2	32	19				
FRANCE, &c.	The Helder ...	1013·7	36	E	3	o	1014·3	0	28	−2	E	4	—	b	1	—	36	28				
	C. Gris Nez ...	1011·0	32	E	3	o	1009·0	−1	33	+1	SE	1	*	m	1	—	37	28				
	La Hève	1010·3	34	E	3	m	1009·5	*	30	0	ESE	3	*	m	2	—	43	30				
	Brest (St. Mathieu)	1019·7	44	SSE	5	o	996·7	−7	39	−2	SE	6	*	o	4	—	48	37				
	Rochefort (Ile d'Aix)	1009·2	40	E	4	bc	1003·1	−4	34	+2	SE	5	*	bc	*	—	50	32				
	Biarritz	1007·4	46	N	2	c	1002·4	−3	48	+14	SE	3	*	o	5	—	54	46				
	Paris	1011·4	36	NE	2	o	1009·3	−1	28	−4	SE	2	—	b	*	—	37	25				
	Belfort	1011·4	30	E	6	c	1012·7	*	21	−7	E	4	*	m	*	—	36	21				
	Lyons	1009·7	36	NNW	3	o	1010·3	*	28	−4	—	0	*	c	*	—	40	27				
	Nice	1006·1	34	—	0	f	1008·5	+1	35	−2	—	c	*	c	2	5	48	30				
	Perpignan ...	1006·7	43	—	0	b	1008·8	0	34	−3	—	o	—	m	*	—	62	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1009·2	52	WSW	3	o	996·8	+2	48	−2	WSW	4	—	r	3	13	54	46				
	Madrid	1008·0	46	WSW	3	c	1011·5	0	39	+2	S	2	—	o	*	—	50	36				
	Lisbon	1012·7	55	WNW	3	c	1004·8	−4	57	+6	WSW	6	—	o	6	Trace	57	54				
	Azores (Horta) ...	1011·0	*	NNW	6	bc	1013·6	0	45	−14	NNW	6	*	c	4	6	59	45				
	Madeira	1020·3	59	W	2	r	1016·3	0	59	+7	W	5	NW	o	3	2	63	57				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1011·9	+3	52	+2	NNE	1	—	bc	2	—	57	50				
	Limassol	*	*	*	*	*	1012·8	0	65	+10	W	2	W	o	4	3	64	52				
	Alexandria ...	1013·0	63	—	0	o	1008·8	−1	57	+2	ESE	2	—	f	1	—	70	64				
	Cairo (Helwan) ...	1013·5	64	—	0	bc	1010·0	+1	63	+8	S	3	—	o	*	—	72	54				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	71	90	3·0	40	29	20	—	c	c	o
CITY (Bunhill Row)	*	*	1·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	76	85	1·0	40	33	30	—	bc.o	bc	bc.cm
CAMDEN SQ. (British Rainfall) ..	90	87	0·4	42	32	28	—	o	o	*
HAMPSTEAD (Reservoir)	*	76	0·1	36	30	22	—	of	of.c	ox
S. KENSINGTON (Museum Grounds)	*	89	0·0	44	33	28	—	ot.	c.	o.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
359	9·1	33·0

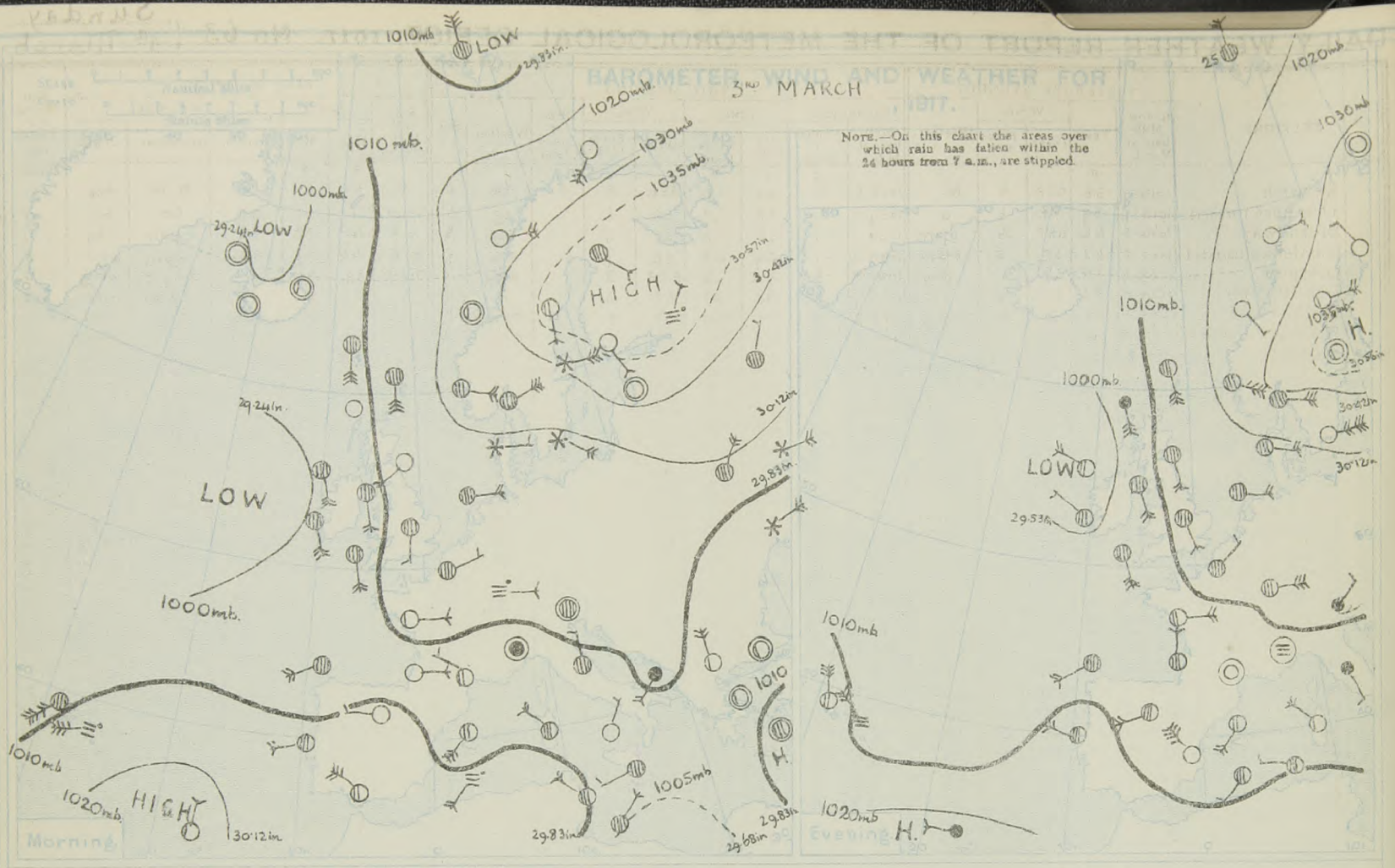
Temperatures at Greenwich and Camden Square are from Glaisher screens.

RAINFALL.

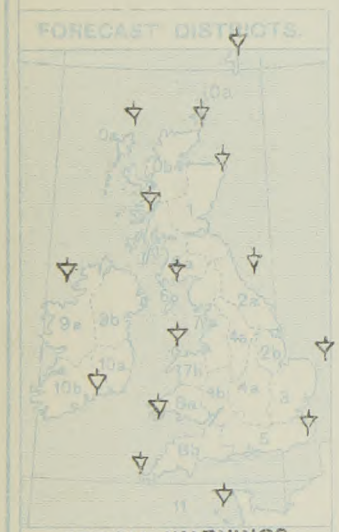
Equivalents of Millimetres in Inches.

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

* 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 8°5h.

Wind between South and South-East, fresh or strong, a gale in places; dull, some rain, sleet or snow; temperature low.

South to South-East winds, fresh or strong to a gale; sea rough or high; some rain or sleet

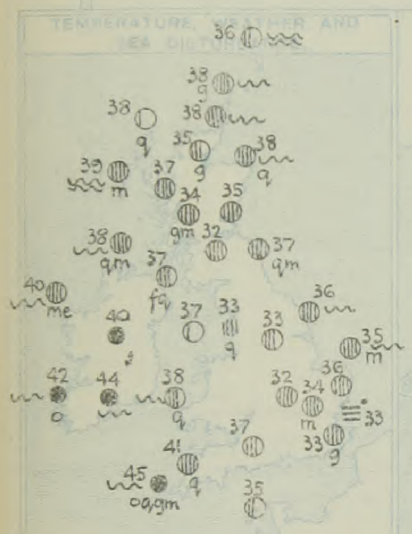
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 4TH MARCH, 1917.

GENERAL INFERENCE.

The Atlantic depression will continue to extend over the British Isles, and a further increase in the force of the wind is probable.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

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

HIGH 10° 20° 30° 40° 50°

Barometer steady.

Barometer generally falling.

Barometer rising

LOW

HIGH

30.56in. 30.42in. 30.27in. 30.12in. 29.97in. 29.83in. 29.09in. 29.24in. 29.38in. 29.53in. 29.68in.

Scale 1 : 9,400,000
Nautical Miles
Statute Miles

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

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1036·7	-18	–	0	b	1035·4	-2	-11	+9	–	0	f	–	*	-19
	Gorki	1024·6	-2	E	1	b	1024·8	–	-13	-18	E	2	b	–	*	-17
	Velieki Luki ...	1030·1	-2	–	0	b	1030·9	*	-11	-2	W	3	b	–	*	-11
	Hangö	1032·2	7	E	2	c	1035·3	-2	0	-16	S	2	b	–	*	-2
	Riga	1029·0	9	–	0	b	1031·4	+1	0	-21	–	0	b	–	*	0
	Petrograd ...	1034·6	-2	ENE	3	b	1035·3	+1	-9	-7	NE	2	m	–	10	-13
	Moscow	1029·0	-2	NNE	2	bc	1027·8	0	-2	+6	NNE	1	o	–	*	-6
	Kiev	1018·3	23	E	3	o	1017·0	-1	10	-15	NNE	4	o	–	*	9
	Kharkov ...	1020·4	12	E	2	o	1015·9	-2	12	-2	E	4	s	–	*	10
	Kishinev ...	1011·5	23	NNW	2	s	1006·7	-3	21	-2	NNE	4	o	?	*	21
	Elisabetgrad ...	1015·0	19	ENE	5	o	.	.	.	.	.	.	.	.	*	.
	Nicolaiev ...	1009·0	23	ENE	7	o	1005·1	*	21	+7	NE	3	o	7	*	19
	Odessa	1008·6	23	ENE	4	s	1004·3	-2	21	+2	ENE	4	s	12	*	21
	Tarkhankout...	1003·0	34	NE	4	o	1005·1	*	21	–	NE	3	o	7	*	19
	Soukhoum ...	.	.	.	.	.	1012·6	-1	39	–	–	0	b	–	*	?
Mediterranean.	Venice	1015·5	39	–	0	b	1011·7	*	36	-1	–	0	o	–	42	26
	Pesaro	1014·1	7‡5	SW	1	b	1012·1	*	38	+8	SW	1	c	–	45	36
	Rome	1011·0	43	N	1	b	1009·9	*	34	-2	N	1	o	–	52	34
	Viesti	1010·7	41	NNW	6	b	1009·7	*	41	-2	NW	1	b	–	45	39
	Brindisi	1007·0	41	N	5	c	1010·3	*	41	-6	SW	3	r	–	50	41
	Cagliari	1010·1	55	NE	4	r	1009·4	*	52	+2	NW	3	c	1	59	46
	Palermo	1011·0	46	–	0	o	1009·4	*	44	-2	NE	1	b	–	55	37
	Tripoli	.	.	.	.	.	1005·0	*	64	+7	NE	2	o	–	66	55
	Algiers	1011·0	54	NE	3	b	1011·7	0	48	-2	SW	3	m	–	55	46
Sweden.	Hernösand ...	1019·3	18	N	2	o	1036·3	*	16	-14	S	2	bc	*	*	*
	Stockholm ...	1018·0	23	NE	2	o	1031·8	*	19	-8	E	6	s	*	*	*
	Wisby	1021·2	28	ENE	2	o	1026·6	*	19	-8	ESE	2	bc	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1000·7	39	+9	–	0	b
Reykjavik	1000·6	30	0	E	2	c
Vestmanna	1001·5	18	-16	–	0	b
Seydisfjord	1007·1	30	-11	–	0	b
Thorshavn	1007·0	43	-11	S	5	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	–	–	42	40	o	o	0·0
	Banff	–	–	43	35	b. bc	bcprq	6·8
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	–	–	38	30	o.c.bc	c.o	0·8
	Skegness	–	–	38	34	o	o	0·0
Eng. N.W.	Morecambe							
	Southport	–	–	41	34	og.o	o	0·3
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	–	–	40	39	o	o	0·0
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	43	39	o.c	c.o	0·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	–	–	42	31	bc.b	b.bc c	5·7
	Walton-on-Naze							
	Southend-on-Sea	–	–	40	31	o.c	c.o	1·8
England, S.E.	Margate	–	–	39	32	o.bc.b	bc.c	3·2
	Ramsgate							
	Hastings	–	–	38	32	o	bc.b	1·6
	Eastbourne	–	–	38	32	om	om	0·9
	Seaford	*	*	43	31	o.c	bc	3·3
	Brighton	–	–	39	31	o.c	c	3·0
	Worthing	–	–	39	32	c	c	2·0
	Littlehampton	Trace	–	38	33	o.	o.bc.o	0·8
	Bognor	*	*	38	36	o.c	bc	0·0
	Bournemouth	–	–	41	33	o	c.o	2·6
England. S.W.	Weymouth...	*	*					
	Torquay	–	–	43	41	o	o	0·0
	Paignton	*	*	42	41	o	o	0·0
	Penzance	–	–	48	44	c.o	c.	2·4
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

4th and 5th March, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.36	12.5	5.34
	6.34	12.5	5.36
Greenwich	6.42	12.12	5.42
	6.40	12.12	5.44
Wick	7.3	12.24	5.45
	7.0	12.24	5.48
Valencia	7.24	12.53	6.22
	7.22	12.53	6.24

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

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

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 64 { Monday 5th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS.					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F	°F							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1014·5	33	SSE	7	o	1011·8	-2	33	-3	SSE	7	–	o	7	–	37	?31	c	ops	ops	*
	Deerness (Orkney)	1008·4	35	SE	7	ouqphs	1005·4	*	30	-8	ESE	7	–	cpshq	6	–	39	30	ophs	orphs	opshc	0·8
	Stornoway ...	998·9	39	SE	7	bcxq	996·8	-2	35	-3	SE	7	–	oq	6	–	43	34	bxq	b.bcxq	c.oq	6·2
	Castlebay (Barra Isd.)	995·0	39	E	8	og	992·5	-1	34	-5	E	8	–	osp	7	Trace	40	34	om.o	og	gosp	0·0
	Glasgow ...	1001·1	34	ESE	-5	o	996·7	-2	29	-5	E	4	–	osp	*	0·2	38	28	o.c.bc.o	ogq	oq.osp	1·5
	Eskdalemuir ...	1001·9	32	ESE	6	oq	997·5	-2	28	-4	ESE	6	–	os	*	0·2	35	27	oq.bc.o	o.cq.o	oq.osq	0·0
	Malin Head ...	989·7	36	ESE	8	omq	987·5	0	34	-4	E	8	–	omq	8	0·4	38	34	cmq	omq	omq	0·0
	Blacksod Point	981·8	37	SE	7	cq	981·7	+2	38	-2	SE	5	SE	bcg	5	2	40	37	omr	cmr	cmpcg	*
	Valencia ...	981·4	45	S	4	bc	981·0	0	40	-2	ESE	3	S	c	5	18	50	37	or	o.c.bc	cph.cp	2·2
	Roche's Point	986·2	44	S	5	o	983·8	*	42	-2	SE	3	–	o	5	·26	45	40	or	op	otl.bp	*
	Birr Castle ...	986·3	37	SE	3	p	983·9	*	38	-2	SSE	2	–	r	*	11	40	35	ors	ors	or	0·0
	Donaghadee ...	993·4	38	SE	7	f	990·3	-2	33	-4	SE	8	–	orfsq	6	6	38	32	ofq	ofqp	ofrsq	*
	Liverpool (Bidston)	996·6	37	E	6	o	993·2	-1	32	-1	E	5	–	ogq	5	2	38	30	oq	oq	oqs	0·0
	Holyhead ...	992·8	38	SSE	6	omg	988·9	-1	37	0	SE	5	S	bc	4	–	41	35	b.bc.co	c.op.o	op.c.bc	0·9
	Pembroke (St. Ann's)	989·9	37	E	7	r	987·9	+1	36	0	ESE	4	–	oqr	5	13	39	33	cq	cq.po.r	oqrcq	0·0
	Scilly (St. Mary's)	988·3	46	SSE	3	c	985·7	-1	44	-1	SSW	4	S	c	5	19	47	42	omrq	omr.c	bc.cpl	0·4
	Falmouth ...	989·2	42	WNW	1	bc	986·8	–	38	-3	S	2	–	bcrsp	*	38	44	37	oq.rq	rq.rc	cmgpq	0·0
	Jersey (St. Aubin)	994·6	42	ESE	5	or	991·7	*	39	+4	SE	2	–	fc	2	6	43	35	bc.c.og	ogdr	rc.bfc	0·3
	Portland Bill ...	994·0	41	SE	6	or	990·7	-2	40	+3	SE	5	S	c	5	8	41	37	o.c	o.cp	or.c	*
	Dungeness ...	1001·0	39	SE	5	bc	1004·8	-3	33	0	SE	4	–	o	4	4	40	33	b	b.bc	cs.or	*
	Dover	1002·6	36	E	5	c	996·9	-1	32	-1	E	4	E	s	4	3	40	31	cm.bc	bc.c	c.bc.o	5·3
	Wick	1006·9	35	SE	8	s	1004·1	-1	33	-5	SE	9	–	s	7	–	40	31	omq	omq.ps	omq.sh	*
	Nairn	1003·5	34	ESE	4	c	1000·4	*	32	-3	SE	4	–	cq	4	0·2	39	30	c.bc.cq	qc	spqc	2·5
	Aberdeen	1007·6	35	SE	8	ospq	1003·8	-1	33	-5	SE	7	–	oqsp	6	1	40	32	o.bcqp	c.hs.pq	oqsp	2·5
	Leith	1002·0	36	SE	3	o	998·8	-1	31	-4	E	4	–	o	4	1	38	31	og.c.o	o	og.ors	*
	Tynemouth ...	1004·9	36	SE	7	omq	999·9	-2	32	-5	SE	7	–	omqps	7	–	38	32	omq.ps	omq	omq.ps	*
	Spurn Head ...	1003·6	37	SE	8	cq	995·8	-1	36	0	SE	8	–	oq	7	–	38	35	cq	cq	oq	0·0
	Yarmouth ...	1005·4	36	SSE	7	o	997·1	-2	32	-3	SE	7	–	om	6	–	36	31	om	om	omq	0·0
	Clacton-on-Sea	1003·6	36	E	4	bc	996·3	-2	33	-3	E	5	–	o	4	–	37	33	og.c	c.bc	bc.cog	3·4
	Nottingham ...	1001·8	35	SE	5	c	995·9	*	31	-2	E	4	E	s	*	1	39	30	c.o	o.c	c.o	0·7
	Benson (Oxon.) ...	1008·4	38	SE	6	o	992·9	0	32	0	ESE	5	–	o	*	2	43	32	bc.c	os	o	*
	Sth Farnborough	994·0	38	ESE	4	o	993·7	0	33	+1	ENE	3	–	om	*	2	43	32	o.bc	bc.om	os.rs.om	2·6
	London (Kew Obsy.)	1000·5	38	ESE	5	om	994·5	0	33	-1	E	4	–	om	*	4	44	32	om.bcm	bcm.om	9m.oms	3·2
NORTHERN EUROPE.	Spitsbergen ...	1021·9	23	–	0	s	1030·0	+4	3	-20	–	0	*	o	*	*	23	1				
	Vardö	1027·5	21	–	0	c	1038·4	0	18	-9	S	1	–	m	3	*	27	18				
	Bodö	1030·6	30	E	4	b	1031·0	0	30	+11	E	4	–	b	2	–	30	18				
	Christiansund ...	1024·2	30	SE	1	b	1020·8	0	28	0	ESE	4	–	b	3	–	34	27				
	Skudesnaes ...	1021·6	27	ESE	4	b	1017·3	-2	21	+4	ESE	5	–	b	2	–	28	21				
	Færder (X'tania Fjord)	1025·9	23	ENE	5	bc	1024·3	0	14	-5	ENE	6	–	o	3	–	23	12				
	The Scaw (Skagen)	1023·4	19	ENE	5	o	1019·9	-1	19	-4	E	6	–	o	6	–	21	18				
	Blaavands Huk	1018·7	25	E	4	b	1013·6	+1	23	0	E	4	–	o	4	Trace	28	18				
	Copenhagen ...	1020·8	23	E	6	c	1017·6	+1	21	-2	SE	6	–	o	*	–	25	19				
	Bornholm ...	1018·6	21	E	7	s	1018·0	+2	18	-5	ESE	7	–	s	4	3	23	16				
FRANCE, &c.	The Helder ...	1010·1	28	E	5	b	1003·0	-3	23	-5	E	5	–	c	3	–	36	23				
	C. Gris Nez ...	1002·4	35	ESE	3	o	993·5	+2	31	-2	E	4	*	s	2	4	41	30				
	La Hève	996·6	27	SSE	6	p	994·1	*	38	+8	SE	2	*	m	2	8	41	37				
	Brest (St. Mathieu)	992·0	46	S	3	b	989·5	-2	43	+4	SW	6	*	o	7	1	46	39				
	Rochefort (Ile d'Aix)	995·9	46	SSE	4	o	991·3	+3	44	+10	WSW	5	*	r	*	5	50	34				
	Biarritz	997·2	55	SSW	4	o	998·6	0	46	-2	S	2	*	bc	2	4	55	46				
	Paris	1001·2	37	E	2	o	995·0	+1	36	+8	–	0	–	o	*	6	45	28				
	Belfort	1007·1	32	E	4	m	1001·5	*	28	+7	E	6	*	s	*	3	38	27				
	Lyons	1002·6	44	S	2	o	?997·1	*	42	+14	W	1	*	r	*	6	49	41				
	Nice	1007·3	44	SW	4	c	1005·5	0	40	+5	E	1	*	r	2	12	50	39				
	Perpignan ...	1002·7	46	NE	1	o	1000·3	+6	45	+11	SW	2	SW	bc	*	–	55	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1001·5	45	–	0	n	1008·4	+4	37	-2	–	0	–	o	*	5	45	36				
	Lisbon	1005·6	55	WSW	4	c	1004·0	-1	50	-7	SW	3	–	b	1	Trace	67	48				
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1017·0	+3	54	+2	–	0	–	b	0	–	61	52				
	Limassol	*	*	*	*	*	1007·1	-3	61	-4	WNW	5	W	b	5	Trace	61	50				
	Alexandria ...														*							
	Cairo (Helwan) ...																					

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

GALES
Duration and Extreme Force in British Islands.

Castlebay: E, 8; 4th. 12h. – 5th. 7h.
Blacksod Point: SE, 8; 4th, 8–16h.
Donaghadee: SE, 8; 4th. 20h – 5th, 7h.
Roches Point: SE, 9; 4th. 7h – 14h.
Wick: SE. 8; 4th. 17h – 5th 7h.
Aberdeen: Squalls, SE. 8; Evening and night.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	57	92	3·5	44	31	32	3	o	o	c, o.s
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	61	92	–	45	33	32	1	bc	bc	os
CAMDEN SQ. (British Rainfall) ..	–	91	2·6	44	31	31	5	–	–	*
HAMPSTEAD (Reservoir)	*	100	3·0	41	24	26	3	bc.o	o	o, Sm
S. KENSINGTON (Museum Grounds)	*	86	2·8	39	32	32	3	o	o. bc	cm. r.s.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

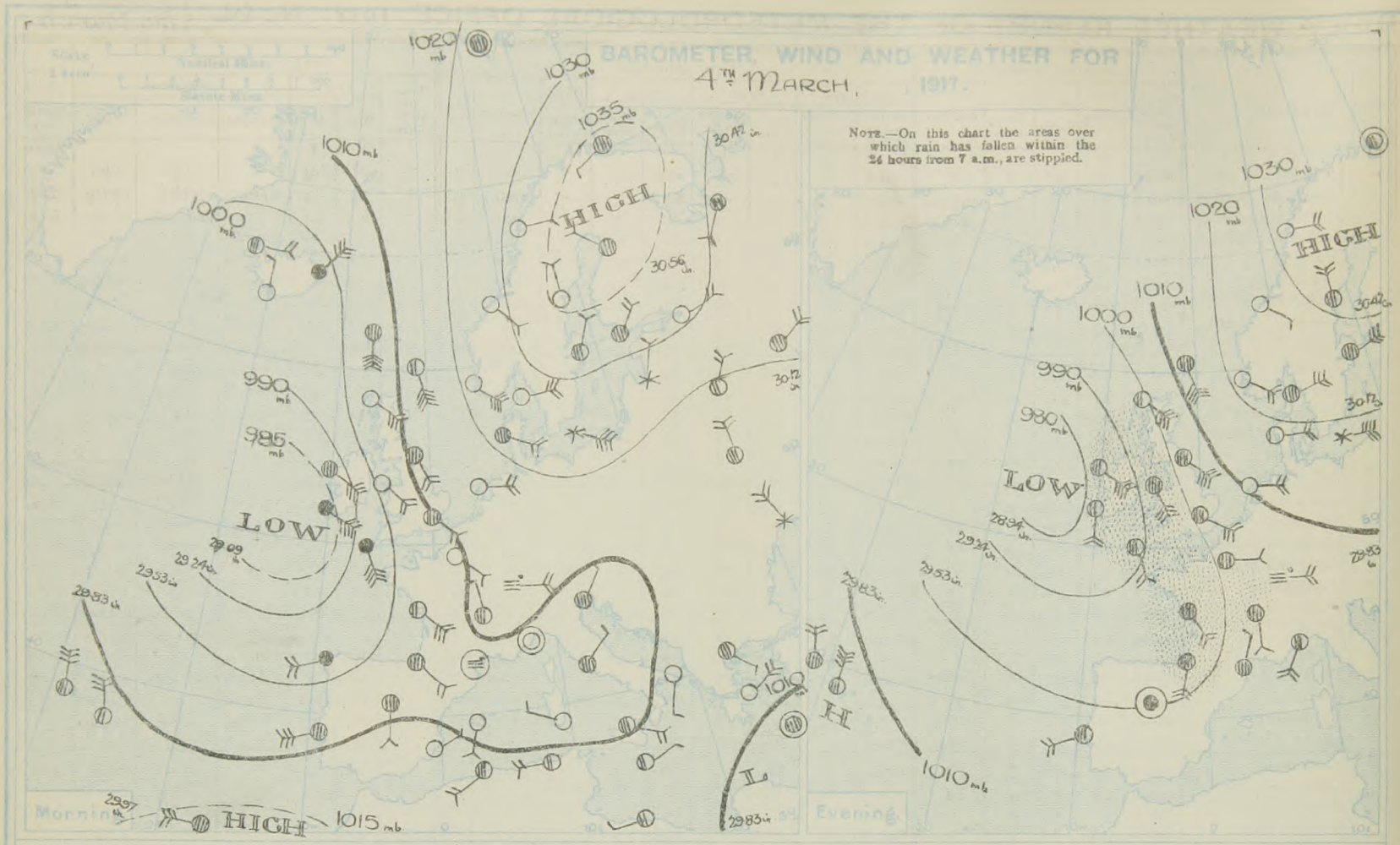
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
527	13·3	43·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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

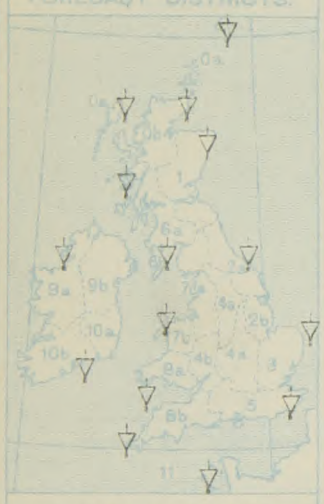
4TH MARCH, 1917.



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 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.

Cones hoisted yesterday morning

Western Channel and Bay

0 (a, b), 1, 2 (a, b) — Wind mainly South-East, strong to a gale; dull, some rain, sleet or snow. Low temperatures.

3, 4 (a, b, c), 5 — Wind mainly South-East or East, strong or high in exposed places; dull, some rain, sleet or snow Cold

6 (a, b) — Same as No 0 – 2.

7 (a, b) — Same as No 3–5

8 (a, b) — South or South-East, moderate or fresh to strong: changeable, some rain or sleet. Cold

9 (a, b) — Same as No. 0 – 2.

10 (a, b) — Same as No 8

11 — South or South-West winds, fresh or strong; sea rough; some rain and mist

FURTHER OUTLOOK.

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

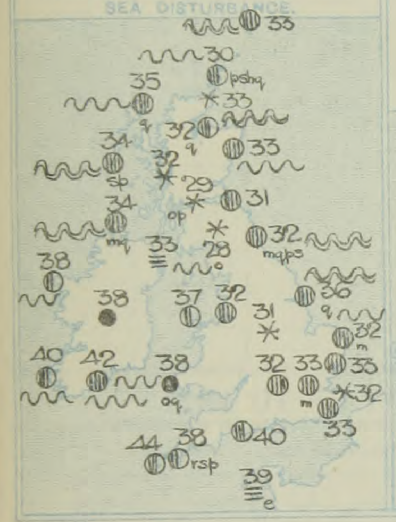
NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Monday 5th MARCH, 1917.

GENERAL INFERENCE

There are no indications of any great modification in the pressure distribution over West or North-West Europe.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

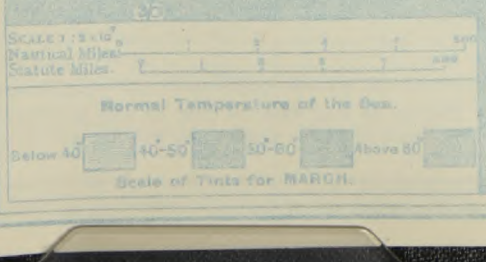
BAROMETER.—Isobars are drawn for intervals of five millibars.

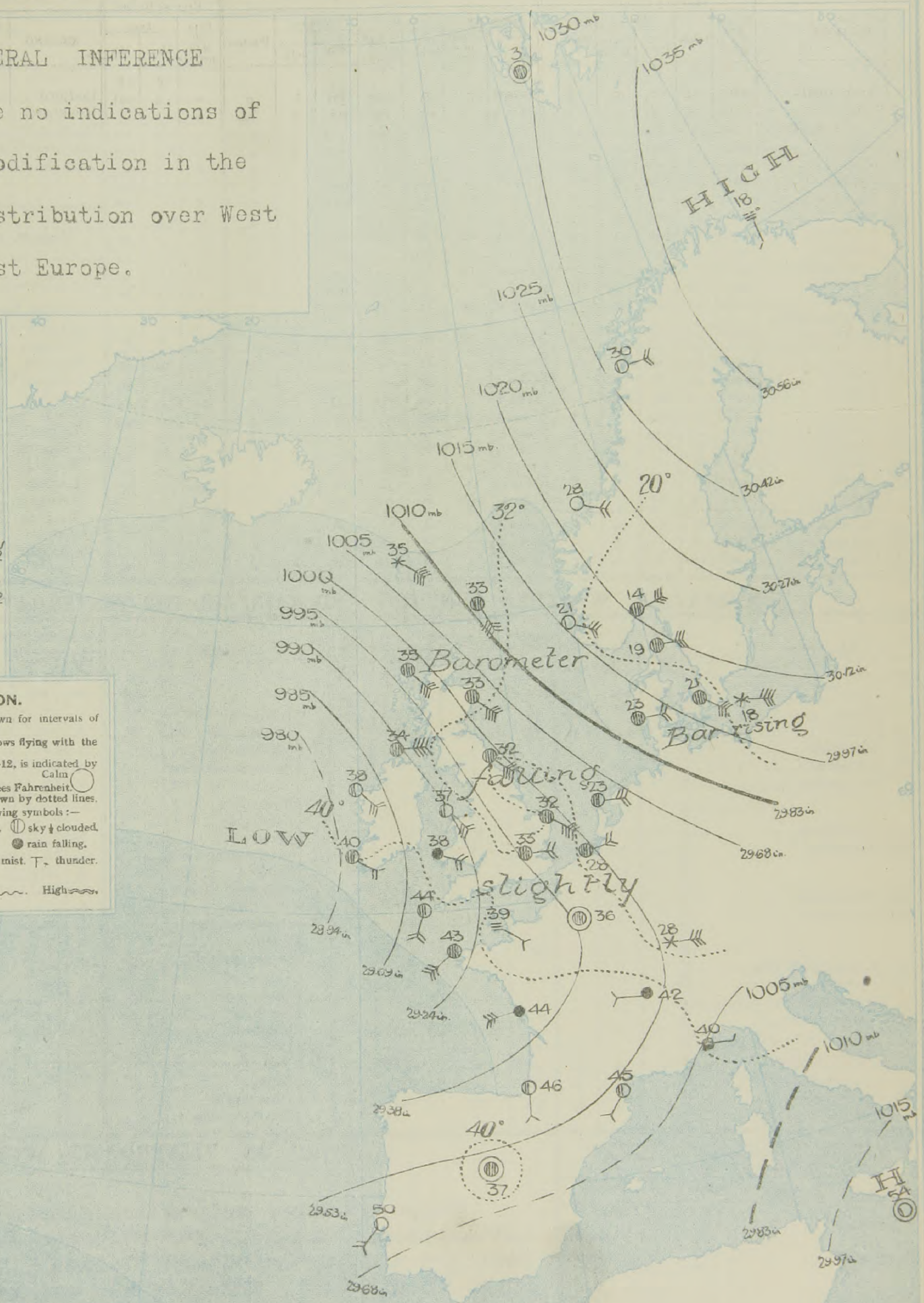
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

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

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

SEA DISTURBANCE.—Rough ~~. High ≈.





Issue No. 20,192

DAILY WEATHER REPORT.

Monday, 5TH March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning. 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.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1031·7	-2	-	0	b	1029·0	-1	9	+20	SW	2	o	-	*	-11
	Gorki	1022.1	-9	E	2	b	1017·6	0	-8	+5	NE	3	bc	-	*	?
	Velieki Luki ...	1027·9	-6	SW	2	b	1023.4	*	3	+14	NW	3	S	1	*	-11
	Hangö	1034·4	7	ESE	1	bc	1031·4	-3	1	+1	NE	3	o	-	*	-2
	Riga	1029·7	5	WNW	2	b	1026·7	-3	-2	-2	NNE	1	S	-	*	-2
	Petrograd ...	1032·7	3	ENE	2	c	1031·1	-1	-4	+5	ENE	3	b	-	7	-9
	Moscow	10263	0	NE	3	b	1021·1	-3	5	+7	ENE	4	o	5	*	-8
	Kiev	1015·0	7	NNE	4	o	1015·3	0	0	-10	N	4	c	-	*	?
	Kharkov ...	10073	25	ENE	1	f	1009·0	+2	28	+14	SW	2	o	?	*	12
	Kishinev ...	1009·7	16	N	3	S	1014·3	+2	10	-11	NNW	3	b	3	*	10
	Elisabetgrad ...	1007·1	18	NNE	4	o	1011·5	+3	10	-	NNW	3	o	19	*	10
	Nicolaiev ...	1005·9	25	-	o	o	1010·9	*	27	+6	NW	3	S	1	*	16
	Odessa	10074	21	ENE	3	o	1013·6	+5	12	-9	NNW	4	S	9	*	10
	Tarkhankout...							*							*	
	Soukhoum ...	10078	52	ENE	2	c	1009·0	+3	·48	+9	ENE	2	o	-	*	39
Mediterranean.	Venice	1010·5	34	NE	1	r	1008·9	*	32	-4	NE	1	o	3	41	32
	Pesaro	1008·1	41	E	1	o	1007·0	*	37	-1	WSW	3	o	7	45	34
	Rome	1008·3	45	SE	1	r	1006·6	*	43	+9	NE	1	o	36	52	34
	Viesti ...	1012·2	41	SSE	1	b	1007·8	*	45	+4	SE	1	c	-	46	39
	Brindisi	1011·9	43	ENE	1	b	1010·5	*	41	0	S	1	b	-	50	41
	Cagliari	1008·7	57	NW	3	b	1007·4	*	52	0	NW	1	b	-	59	45
	Palermo	1009·1	50	-	0	o	1009·3	*	54	+10	ESE	3	c	-	57	37
	Tripoli	1007·9	63	W	1	c	1011·0	*	61	-3	W	1	bc	trace	72	57
	Algiers	1009·5	55	SW	1	c	1012.8	+3	50	+2	SW	3	c	trace	64	48
Sweden.	Hernösand ...	1033.3	18	E	4	o	1032·0	*	7	-12	N	2	c	*	*	*
	Stockholm ...	1037.6	9	-	0	b	1036·8	*	-8	-24	N	2	b	*	*	*
	Wisby	1029.6	19	E	2	c	1026·1	*	18	-1	ENE	2	o	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	999·3	34	- 5	E	3	c
Reykjavik	994·3	25	- 5	E	1	b
Vestmanna	991·9	30	+12	N	1	b
Seydisfjord	998·0	36	+6	NE	6	r
Thorshavn	1005·7	40	-3	S	8	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	-	-	39	36	o.bc	bc.o	0·3
	Banff	-	race	39	32	bcqsp	cqsp	3.5
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	-	-	35	31	c.o	o	0·0
	Skegness	-	-	39	34	o	c.o	0·7
Eng. N.W.	Morecambe							
	Southport	-	-	40	32	bc.c.o	o	0·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	-	-	39	32	c.o	c.o	0·1
	Colwyn Bay...	*	*	42	33	c.o	c.o	0·0
	Llandudno	*	*	40	33	o	o	0·0
	Aberystwyth	*	*	41	34	o·c	o·c.o	0·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft							
	Felixstowe	-	-	38	34	om	o.bcq	1·0
	Walton-on-Naze							
	Southend-on-Sea	-	-	42	33	o.cbc	bc.c	4·4
England, S.E.	Margate							
	Ramsgate							
	Hastings	-	-	40	32	o.bc.b	b.bc	5·0
	Eastbourne	-	-	42	32	oq	oq	4·6
	Seaford	*	*					
	Brighton							
	Worthing	-	-	42	34	bc	bc.o	3·1
	Littlehampton	-	-	40	34	o.bc	bc.o	2·9
	Bognor	*	*					
	Bournemouth	-	-	40	34	o	o	1·0
England, S.W.	Weymouth...	*	*					
	Torquay	-	3	42	38	o	o.r	0·0
	Paignton	*	*					
	Penzance							
	Newquay	1	14	41	33	rq	rq	
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

5th & 6th March ... 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.30 / 6.32	12.5 / 12.5	5.36 / 5.38
Greenwich	6.40 / 6.38	12.12 / 12.12	5.44 / 5.46
Wick	7.0 / 6.57	12.24 / 12.24	5.48 / 5.50
Valencia	7.22 / 7.20	12.53 / 12.53	6.24 / 6.26

NOTES ON YESTERDAY'S WEATHER.

Temperatures remained low generally and very little bright sunshine was recorded except at a few Southern and North-Eastern stations. Heavy rain fell in the South-West, and snow was experienced over a large part of the Kingdom.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 65 — Tuesday 6th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	1008·7	34	ESE	8	cps	1013·2	+2	32	-1	SE	8	–	opsq	8	2	33	28	bcps	ops	opsq	*
	Deerness (Orkney)	1002·7	30	ESE	7	opsq	1006·4	*	34	+4	SE	7	–	opsu	7	1	34	29	cpoh	c.opsq	opsu	0·5
	Stornoway ...	998·7	35	SE	7	bcq	997·6	+2	38	+3	SE	7	–	oq	6	–	38	33	oq	o.bcq	bc.cq	0·0
	Castlebay (Barra Isd.)	997·4	37	E	8	o	994·4	+2	40	+6	E	7	–	om	7	Trace	40	33	sp	spo	ops.om	0·0
	Glasgow ...	995·2	32	E	4	o	999·2	+3	36	+7	ESE	4	–	og	*	0·1	36	28	osp	osp.o	o	0·0
	Eskdalemuir ...	995·7	29	E	5	o	999·5	+3	33	+5	ESE	7	–	oq	*	5	33	27	os	os.o	o.os.oq	0·0
	Malin Head ...	986·0	35	SE	8	omq	988·2	0	37	+3	SE	8	E	emq	7	0·2	37	33	cmq	cmq	cmq	0·0
	Blacksod Point	982·1	39	SE	3	cp	984·9	+3	37	-1	ESE	4	SE	cg	4	2	44	35	c	cph	bc.eg	*
	Valencia ...	981·2	42	SE	3	c	981·4	0	41	+1	E	3	SE	o	4	4	47	37	oprs.c	bcv	cp.o	4·1
	Roche's Point	984·1	43	SSE	4	o	982·7	*	39	-3	N	1	–	o	4	9	47	39	c.op	c.o	op.bc.o	*
	Birr Castle ...	982·4	38	SE	1	c	984·6	*	37	-1	E	1	–	p	*	4	47	37	or.cp	cp	op.or	3·0
	Donaghadee ...	989·2	35	SE	8	ofq ps	991·7	+2	37	+4	SE	8	–	oqrm	5	4	39	33	ofq ps	ofq ps	ofq ps	*
	Liverpool (Bidston)	992·1	35	E	4	s	993·6	0	36	+4	ENE	5	–	oq	4	6	36	32	os	os	oq	0·6
	Holyhead ...	988·8	36	SE	4	om	989·3	+2	40	+3	ESE	5	–	cm	4	2	52	34	bcmp	c.oms	bc.otp	1·2
	Pembroke (St. Ann's)	988·1	42	SE	4	r	988·4	-8	41	+3	E	6	E	cq	5	10	43	35	2cqp	ep. bcp	bcpq	1·7
	Scilly (St. Mary's)	986·4	44	SSE	5	cqp	982·1	-1	43	-1	S	E	SW	o	4	19	47	38	cqp	cqp	cq.om	2·9
	Falmouth ...	988·2	43	SSE	6	bq	982·6	-2	43	+5	SE	6	–	rq	*	6	48	38	c.b.o.bc	bc.cp.c	roq.rq	0·2
	Jersey (St. Aubin)	993·7	44	S	3	c	986·9	*	44	+5	E	4	–	o	3	–	49	38	fe.bc	c.b.o.c	c.o	5·0
	Portland Bill ...	992·2	43	S	3	bc	989·5	-3	43	+3	SSE	4	S	cu	5	1	44	40	cr	cr.bc	bc.cp	*
	Dungeness ...	996·4	39	E	3	bc	996·5	0	39	+6	ESE	4	E	b	4	1	41	38	os	o.c	b.bc.b	*
	Dover	998·5	38	SE	2	c	1000·0	-4	35	+3	E	3	E	bc	4	0·4	38	35	o	o.c	c.bc	0·0
	Wick	1001·2	33	SE	8	s	1004·5	+2	36	+3	SE	8	–	p	7	1	37	30	omqps	omqps	osmrq	*
	Nairn	997·7	32	ESE	4	eq	1001·1	*	35	+3	SE	6	–	oqg	4	–	36	30	eqsd	eq	cqu	0·0
	Aberdeen	1001·7	33	SE	6	osp	1005·4	+3	35	+2	SE	7	–	oq	6	1	35	31	o.osp	o.osp	oqsp	0·0
	Leith	996·0	33	E	5	o	999·9	+1	36	+5	SE	4	–	o	5	2	36	30	ors.oq	orsq	orsq.o	*
	Tynemouth ...	997·6	32	SE	7	omq	1002·1	+2	36	+4	SE	7	–	omq	6	3	36	31	omqs	emqs	oqmp	*
	Spurn Head ...	995·5	36	SE	7	o	999·6	0	36	0	SE	7	–	oq	6	2	38	31	oqs	oq	oqr	0·0
	Yarmouth ...	996·9	34	SSE	7	om	1000·3	+2	35	+3	SE	7	–	omq	7	–	36	31	omps	omps	om	0·0
	Clacton-on-Sea	997·4	36	ESE	3	o	999·5	0	35	+2	ENE	4	–	f	3	–	37	33	og	og	ogmf	0·0
	Nottingham ...	994·8	33	E	4	s	997·9	*	35	+4	E	4	E	ome	*	2	35	30	os	os	os	0·0
	Benson (Oxon.) ...	994·1	37	SE	4	b	994·0	0	38	+6	E	6	–	bc	*	0·4	38	32	o	bc	bc	*
	Sth Farnborough	994·3	40	SE	2	bc	994·6	-1	36	+3	ENE	3	W	bc	*	1	42	32	or.om	dro.bm	b.o.bc	0·0
	London (Kew Obsy.)	995·5	38	E	3	cm	996·2	+1	36	+3	ENE	5	–	om	*	1	39	33	om	om.omf.cm	cm.bm.on	0·0
NORTHERN EUROPE.	Spitsbergen ...	1030·3	32	S	2	o	1034·4	+3	18	+15	S	3	*	b	*	*	32	0				
	Vardö	1038·1	19	S	1	bc	1036·4	0	16	-2	SW	2	–	b	3	*	19	14				
	Bodö	1033·8	32	E	1	b	1035·3	0	32	+2	E	1	–	b	1	–	36	28				
	Christiansund ...	1025·2	25	SE	3	b	1025·2	0	27	-1	SE	4	–	b	3	–	30	25				
	Skudesnaes ...	1018·4	23	ESE	8	b	1021·0	+1	23	+2	E	6	–	b	2	–	25	19				
	Færder (X'laniaFjord)	1026·6	19	ENE	6	o	1028·2	0	16	+2	ENE	6	–	o	3	–	19	12				
	The Scaw (Skagen)	1022·7	23	E	6	o	1023·8	+1	19	0	ENE	6	–	o	6	–	25	18				
	Blaavands Huk	1013·0	21	ESE	6	c	1015·7	+2	23	0	ESE	5	–	c	5	–	27	18				
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1002·6	30	E	4	o	1005·6	0	27	+4	E	5	–	o	3	Trace	30	27				
	C. Gris Nez ...	?996·3	37	SE	3	c	991·2	+1	36	+5	ESE	4	*	b	3	–	39	36				
	La Hève	995·0	?43	WSW	4	o	993·1	*	38	0	SSE	6	*	o	3	–	48	36				
	Brest (St. Mathieu)	990·4	44	S	6	o	982·9	-1	44	+1	ESE	2	*	o	5	11	48	43				
	Rochefort (Ile d'Aix)	997·6	49	SSW	5	o	987·9	0	?	–	SSE	6	*	r	*	6	54	45				
	Biarritz	997·1	51	S	3	o	990·1	+1	46	0	SSE	3	*	o	6	–	61	45				
	Paris	999·9	45	SW	3	bc	996·7	-2	37	+1	E	3	–	c	*	2	52	36				
	Belfort	1004·2	39	WSW	4	c	1003·3	*	34	+6	E	4	*	m	*	?	?46	32				
	Lyons	1003·4	45	–	0	b	999·4	*	37	-5	ESE	1	*	o	*	–	51	35				
	Nice	1010·3	44	–	0	o	1004·7	+2	42	+2	E	4	*	e	3	7	46	37				
	Perpignan ...	1002·0	52	E	2	b	993·3	-5	49	+4	S	3	S	r	*	2	61	37				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	990·7	45	WSW	2	o	987·9	-1	43	-3	SSW	6	–	c	4	29	52	39				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1001·9	*	W	9	o							*									
	Madeira	1009·5	61	W	4	o	1003·7	-2	57	+2	W	4	W	r	4	16	63	57				
	Gibraltar	1004·7	58	NW	9	r	1003·0	*	52	+1	NW	5	*	r	1	30	58	51				
	Malta	*	*	*	*	*	?1013·4	0	61	+7	SW	3	–	b	1	–	64	54				
	Limassol	*	*	*	*	*	1016·2	+3	61	0	–	0	–	b	3	–	66	48				
	Alexandria ...	1021·1	61	NNW	4	bc	1022·6	+1	63	+2	NW	3	NW	bc	2	–	68	59				
	Cairo (Helwan) ...	1019·5	59	N	4	b	1022·6	+3	55	-6	–	0	–	b	*	–	73	48				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.1.17.
1,200 m.: SE , 22 m/s
900 m.: SE , 23 m/s
600 m.: SE , 22 m/s
300 m.: ESE , 13 m/s
Surface: E by N, 7 m/s

GALES
Duration and Extreme Force in British Islands.
Castlebay: E, 8; 12 noon, 5th, – night.
Malin Head: SE, 8; 7h, 5th – 7h, 6th.
Donaghadee: SE, 8; 7h, 5th – 7h, 6th.
Wick: SE, 8; 7h, 5th – 7h, 6th.
Aberdeen: 22 m/s at night.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	97	100	0·0	38	33	29	2	o	o.bc	o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	96	94	0·0	40	38	32	3	sdo	oe	ore
CAMDEN SQ. (British Rainfall) ..	96	90	0·0	39	38	34	2	o	or	*
HAMPSTEAD (Reservoir)	*	100	0·0	38	29	25	2	osf	orkm	om
S. KENSINGTON (Museum Grounds)	*	90	0·0	42	38	32	1	o	omd.om	c.o.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

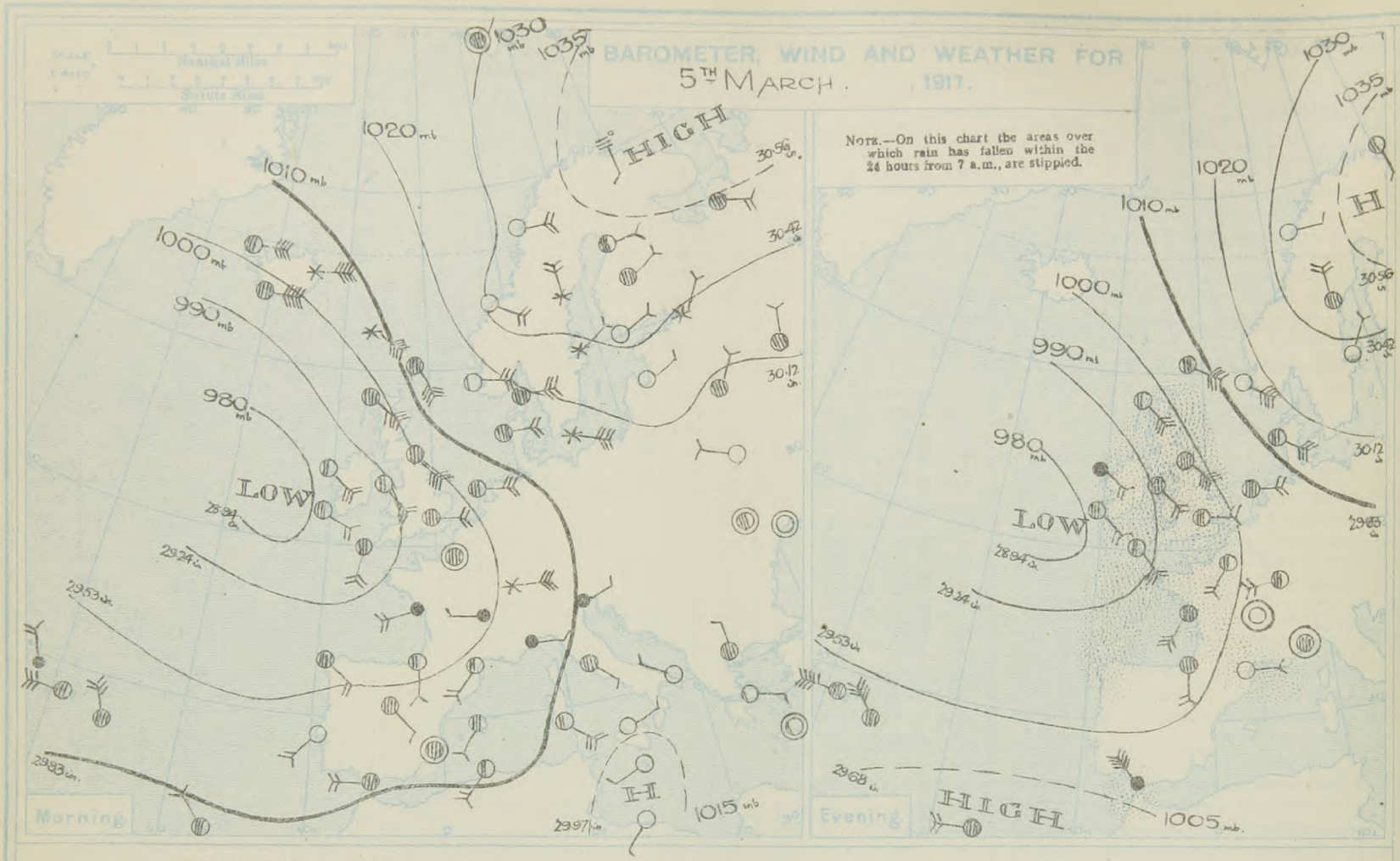
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
126	3·2	9·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

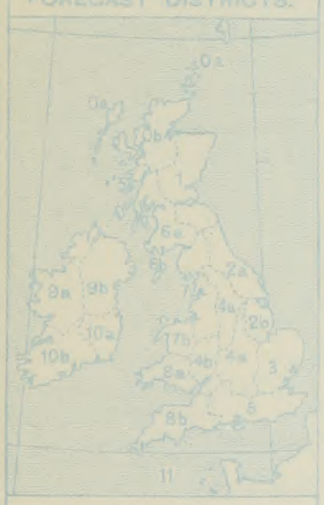
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 5TH MARCH. 1917.



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	Squally South-East winds, strong to high; unsettled; some showers and mist; cold.
4 a, b, c; 5	Moderate East to South-East wind; changeable, some showers and mist; cold.
6 a, b; 7 a, b	Same as Nos. 0 – 3
8 a, b	Wind between South and East, freshening; dull, some showers; cold.
9 a, b	Same as Nos. 0 – 3.
10 a, b	Same as No. 8
Western Channel and Bay 11	South-East and East winds, moderate to fresh; sea rather rough; dull, some rain and fog; cold.

FURTHER OUTLOOK.

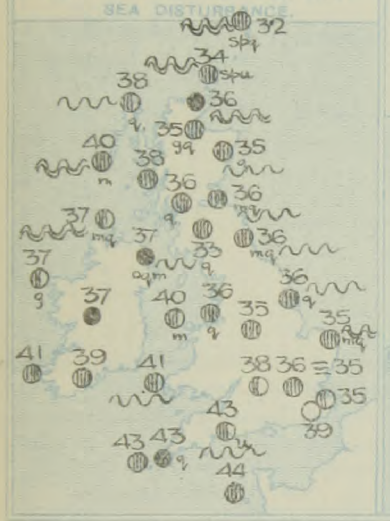
R. G. K. LEMPFERT, Superintendant, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Tuesday, 6TH MARCH, 1917.

GENERAL INFERENCE.

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

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

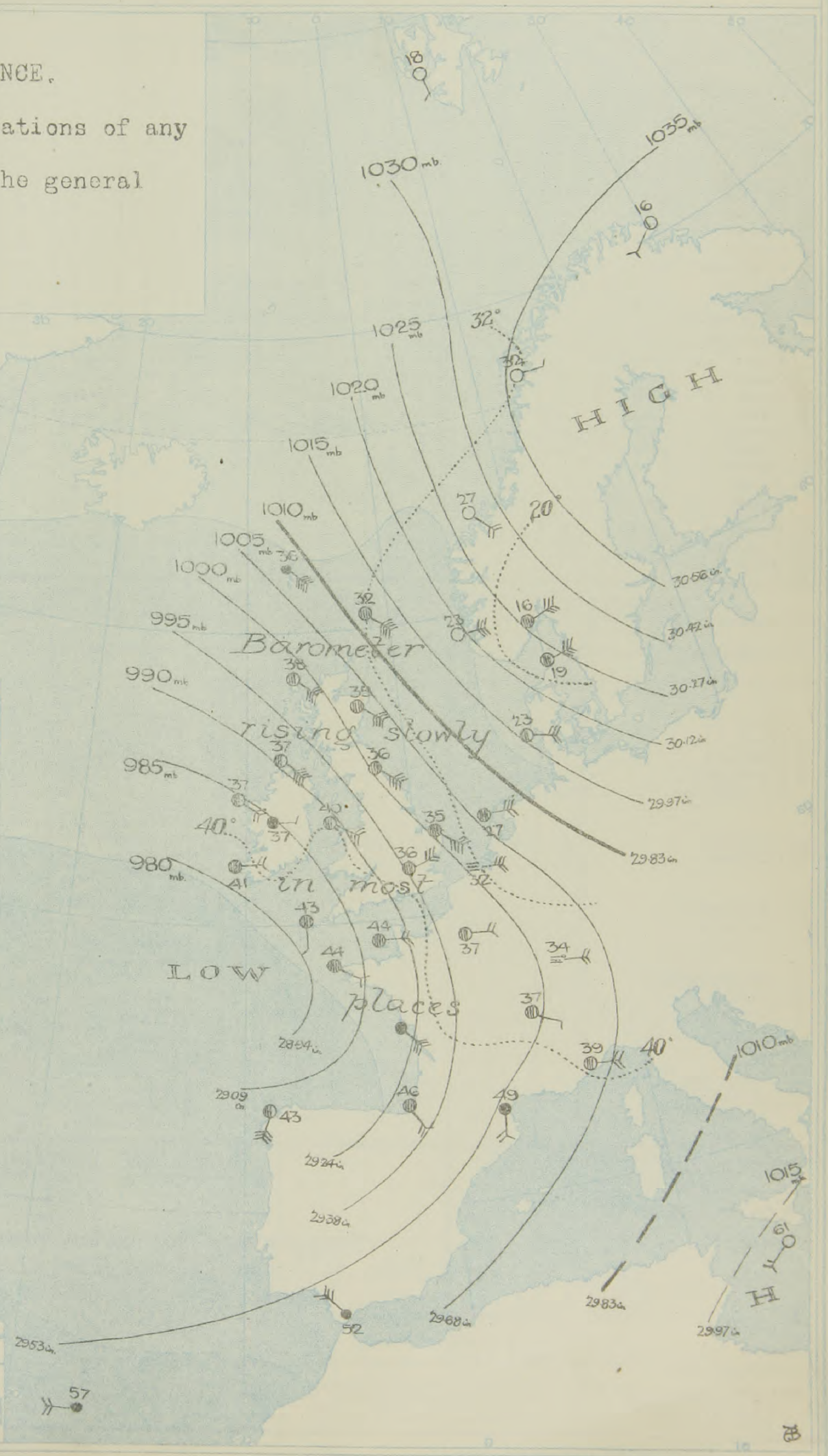
WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder. ⊤≋, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

Scale for Miles
Nautical Miles
Statute Miles

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

Scale of Tints for MARCH.



Issue No. 20,193

DAILY WEATHER REPORT.

Tuesday 6th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1029·5	28	NW	1	0	1035·0	+5	12	+3	SE	3	0	—	*	9
	Gorki	1016·8	0	NE	1	b	1015·7	0	10	+18	NE	2	0	—	*	−11
	Velieki Luki ...	1021·6	12	NNE	2	0	1019·9	*	9	+6	N	2	0	1	*	3
	Hangö	1029·5	5	ENE	2	b	1032·4	+2	1	0	ENE	2	b	—	*	−2
	Riga	1023·6	10	ENE	2	0	1024·8	0	−2	0	ENE	1	b	—	*	−2
	Petrograd ...	1029·0	1	NE	2	b	1029·3	0	7	+11	NE	2	s	—	—	−4
	Moscow	1020·3	12	NE	4	0	1020·3	0	7	+2	NNE	3	0	2	*	6
	Kiev	1017·9	7	N	3	b	1019·0	0	−2	−2	NW	2	b	—	*	−2
	Kharkov ...	1012·0	19	NW	3	0	1024·0	0	0	−28	WNW	2	0	—	*	9
	Kishinev ...	1019·8	7	—	0	b	1019·3	+1	−4	−14	—	0	c	—	*	−6
	Elisabetgrad ...	1017·1	1	NNW	1	b	1018·6	0	−11	−21	—	0	b	—	*	−11
	Nicolaiev ...	1017·2	7	—	0	b	1018·4	*	−6	−33	—	0	b	—	*	−6
	Odessa	1018·9	10	NNE	3	b	1019·0	0	3	−9	ENE	2	b	—	*	3
	Tarkhankout...						1016·8	*	28	—	NE	4	be	—	*	18
	Soukhoum ...	1011·0	48	—	0	r	1005·2	+3	48	0	ENE	2	f	6	*	48
MEDITERRANEAN.	Venice	1009·1	41	—	0	0	1010·3	*	34	+2	ENE	1	r	Trace	46	32
	Pesaro	1009·8	36	SW	1	b	1010·5	*	36	−1	—	0	r	Trace	43	28
	Rome	1010·9	45	N	1	b	1011·7	*	46	+3	—	0	0	Trace	52	39
	Viesti	1010·5	45	WNW	1	b	1013·9	*	45	0	WNW	1	b	—	52	33
	Brindisi	1008·1	48	SE	1	0	1013·1	*	43	+2	NW	1	b	—	50	41
	Cagliari	1015·4	57	NW	3	b	1010·2	*	54	+2	SE	5	bc	—	59	46
	Palermo						1015·0	*	55	+1	ENE	1	b	—	61	41
	Tripoli						1016·9	*	69	+8	SW	1	b	—	73	69
	Algiers	1011·4	55	SW	3	b	1009·2	−2	59	+9	SW	3	be	Trace	63	50
SWEDEN.	Hernösand ...	1033·3	14	N	4	c	1033·6	*	10	+3	N	4	s	*	*	*
	Stockholm ...	1026·7	14	ENE	6	0	1027·7	*	16	+24	ENE	2	s	*	*	*
	Wisby	1021·0	18	E	2	0	1023·7	*	14	−4	SE	2	s	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1002·6	41	+7	E	8	c
Reykjavik	994·6	37	+12	E	6	c
Vestmanna	994·0	39	+9	E	9	0
Seydisfjord	1008·4	36	0	E	9	s
Thorshavn	1007·7	36	−5	SE	8	s

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban							
	Banff	Trace	1	32	29	osq	osq	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	8	4	33	29			0·0
Eng. N.E.	Harrogate	4	Trace	30	28	os	o	0·0
	Skegness	1	1	34	31	os	o	0·0
Eng. N.W.	Morecambe	—	—	34	32			0·0
	Southport	1	3	33	31	o	os	0·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	8	2	41	32	os	s.cbc.b	0·4
Wales.	Rhyl	2	1	34	31	cs.c	cs.c	0·1
	Colwyn Bay...	*	*	35	32	cs.	sp	0·6
	Llandudno	*	*	36	33			
	Aberystwyth	*	*	38	34	os.o	oc.c.	0·4
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	—	1	34	31	os	o	0·0
	Felixstowe	—	Trace	35	32	oms	om	0·0
	Walton-on-Naze							
	Southend-on-Sea	Trace	Trace	36	31	os	o	0·0
England, S.E.	Margate	—	Trace	37	32	os	o	0·0
	Ramsgate							
	Hastings	6	1	41	33	os.o	or.c	0·0
	Eastbourne	5	1	44	34	og	ogr	0·1
	Seaford	*	*	45	33	r	c	0·9
	Brighton	6	Trace	42	33	o.d.p.	o.e.bc	1·2
	Worthing	2	Trace	43	34	o.bc.	bc	2·1
	Littlehampton	6	—	42	34			2·2
	Bognor	*	*	43	40	du	be	2·3
	Bournemouth	4	1	47	33	o	qc.	3·1
England. S.W.	Weymouth...	*	*	46	37	z.or.c	b.cbz	2·7
	Torquay	8	3	45	38	o.cp	b.cp	1·1
	Paignton	*	*					
	Penzance	8	1	49	41	epz	bc.c	2·1
	Newquay	12	Trace	41	36	op	b.o.c	1·6
	Bude						z	2·2
	Ilfracombe	1	2	48	37	bcp	bc	3·2
	Weston-s-Mare	—	3	46	35	cr.bc	b.bc	1·5

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

6th & 7th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6·32	12·5	5·38
	6·29	12·4	5·39
Greenwich	6·38	12·12	5·46
	6·35	12·11	5·47
Wick	6·57	12·24	6·00
	6·54	12·23	5·52
Valencia	7·20	12·58	6·26
	7·17	12·57	6·28

NOTES ON YESTERDAY'S WEATHER.

Temperature was below normal generally. Snow or rain fell nearly everywhere, 19 mm. at Scilly. There was a little sunshine in the South-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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 66 {Wednesday 7th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1018·4	33	SE	7	cbs	1017·8	-2	31	-1	SE	4	E	cbs	5	3	34	31	0sq	opsq	o	*
	Deerness (Orkney)	1012·5	34	ESE	7	oq	1012·8	*	29	-5	E	6	E	bcpsh	6	1	35	30	opsq	opsq	a.c.bcph	0·0
	Stornoway ...	1003·8	37	ESE	7	oq	1007·5	+1	34	-4	ESE	7	-	cq	6	-	41	33	c.cq	c.oq	o.cq	1·0
	Castlebay (Barra Isd.)	999·0	40	E	7	c	1002·6	0	36	-4	E	7	E	c	7	-	42	36	om.o	o.c	c.o.c	0·2
	Glasgow ...	1002·2	34	E	6	oq	1004·3	0	31	-5	ENE	6	-	o	*	-	36	30	o	o	oq	0·0
	Eskdalemuir ...	1001·3	32	ENE	6	o	1002·8	0	28	-5	NE	6	-	oq	*	-	33	28	osq.oq	odm.o	o.oq	0·0
	Malin Head ...	999·0	38	E	9	cmq	996·6	+2	34	-3	E	8	-	omq	8	1	38	34	cmqp	cmq	omqps	0·6
	Blacksod Point	986·1	39	ESE	5	cmr	992·8	+4	36	-1	ESE	5	-	om	5	3	39	35	omr	omr	omd.om	*
	Valencia ...	983·4	45	-	0	c	985·1	+3	40	-1	ENE	3	-	c	3	2	49	33	op.cv	bc.cvp	c.bc.c	6.0
	Roche's Point	983·8	43	SE	1	o	988·5	*	41	+2	NE	2	-	o	4	0·2	45	39	o	o.c.o	c.bc.o	*
	Birr Castle ...	985·6	39	E	1	p	991·7	*	36	-1	NE	2	-	o	*	19	41	36	or	or	or.o	0·0
	Donaghadee ...	993·6	37	SE	8	ofq	991·4	+2	34	-3	SE	8	S	omq	6	6	40	34	ofqps	ofq	ofqps	*
	Liverpool (Bidston)	994·4	35	ENE	5	o	996·2	+1	31	-5	ENE	6	NE	oq	5	-	39	?31	oq	o	oq	0·0
	Holyhead ...	991·0	40	ENE	6	omq	992·1	0	34	-6	E	8	-	cqq	8	4	45	33	o.c.bc.o	omqq	psr.fs	1·1
	Pembroke (St. Ann's)	986·4	41	E	4	cq	987·9	-1	36	-5	NE	4	NE	cq	4	13	43	35	cpq	oq.b.cq	cqp.cq	0·0
	Scilly (St. Mary's)	983·9	46	SE	2	c	983·8	0	43	0	E	5	E	c	4	0·4	50	40	cm.c	c.bcp	cp.bc.c	2·8
	Falmouth ...	985·2	43	SE	2	b	983·8	0	41	-2	NE	6	-	oq	*	8	48	40	nqc	c.bc.c	bm.coq	1·0
	Jersey (St. Aubin)	987·4	45	ESE	4	c	989·0	*	40	-4	NE	5	-	gmo	4	0·1	46	39	og.o	ogp.c	ogm	1·1
	Portland Bill ...	987·8	42	ESE	4	bc	985·0	-1	36	-7	ENE	7	-	o	5	1	43	36	bc.c	bcp	bc.c.o	*
	Dungeness ...	992·5	42	E	5	bc	987·8	-3	33	-6	E	9	-	o	7	-	42	32	bc	bc	bc.o	*
	Dover	994·8	40	E	5	o	990·5	0	29	-6	NE	7	NE	o	6	0·2	43	28	b.c.bc	c.bc.cm	com	3·5
	Wick	1011·0	36	SE	8	m	1011·8	0	34	-2	SE	6	-	o	6	0·3	37	32	ompq	ompqd	omepd	*
	Nairn	1007·4	33	E	4	oqu	1008·4	*	31	-4	E	3	-	om	2	0·1	38	30	o.cqu	oqu	oqph	0·0
	Aberdeen	1010·1	35	ESE	7	oqsp	1010·1	0	32	-3	E	6	-	oqsp	6	1	36	31	oqrsp	oqrsp	oqsp	0·0
	Leith	1003·5	35	ESE	4	o	1005·0	0	33	-3	SE	4	-	o	5	-	36	32	og.oq	oe.og	og,og.o	*
	Tynemouth ...	1003·2	36	ESE	7	oqm	1003·8	-2	32	-4	ESE	6	-	oqph	6	-	36	32	oqm	oqm	oqph	*
	Spurn Head ...	998·0	34	SE	8	oq	998·0	-1	31	-5	SE	8	-	oq	7	-	36	30	oq	oq	oq	0·0
	Yarmouth ...	999·1	35	ESE	7	o	996·3	-2	30	-5	ESE	8	-	om	8	-	36	?28	om	om	omq	0·0
	Clacton-on-Sea	996·4	37	E	6	o	992·4	-2	30	-5	ENE	6	E	o	5	-	38	29	fgo.cm	c.om	om.og	0·0
	Nottingham ...	997·8	34	E	4	o	997·0	*	30	-5	E	8	E	o	*	-	36	?29	oe	o	o	0·0
	Benson (Oxon.) ...	992·5	40	E	6	m	990·3	0	31	-7	NE	5	-	o	*	16	46	31	bc	om	orq	*
	Sth Farnborough	991·4	43	ENE	4	o	989·0	-2	31	-5	E	6	-	om	*	8	49	30	bc.o.e	c.om	orm	4·3
	London (Kew Obsy.)	993·5	39	E	6	om	990·7	-2	31	-5	ENE	7	-	omq	*	3	43	31	om.omq.om	om.omq.om	om.omrq	0·1
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1034·3	32	NW	3	o	1039·7	-	30	+14	NE	3	-	b	3	*	32	12				
	Bodö	1032·6	30	E	1	b	1032·2	0	28	-4	E	4	-	b	2	-	36	27				
	Christiansund ...	1024·0	28	SE	2	b	1022·1	0	25	-2	SE	3	-	b	3	-	34	21				
	Skudesnaes ...	1022·1	27	E	6	b	?1019·9	-2	25	+2	E	7	-	b	2	-	30	19				
	Færder (Kristiania Fjord)	1024·8	25	NE	6	b	?1019·9	0	16	0	ENE	7	-	c	3	-	25	14				
	The Scaw (Skagen)	1021·5	23	ENE	5	o	1016·6	-2	16	-3	ENE	8	NE	o	8	-	25	16				
	Blaavands Huk	1016·7	25	E	5	c	1011·5	-5	18	-5	ENE	4	-	c	4	Trace	30	14				
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1004·6	32	E	6	b	1002·2	-3	19	-8	E	8	-	b	6	-	34	19				
	C. Gris Nez ...	993·2	?39	E	5	o	987·9	-2	30	-6	ENE	6	*	o	5	-	46	28				
	La Hève	991·3	43	SE	5	p	981·9	*	37	-1	ENE	3	*	m	2	1	46	36				
	Brest (St. Mathieu)	985·0	46	SSE	4	bc	978·9	-1	43	-1	NE	4	*	o	5	-	48	41				
	Rochefort (Ile d'Aix)	984·1	47	SSE	3	o	971·7	-3	43	-	E	5	*	p	*	4	54	43				
	Biarritz	987·1	55	ESE	3	o	969·6	0	53	+7	SSW	6	*	o	3	-	59	46				
	Paris	992·0	45	E	1	o	982·1	-4	37	0	ESE	3	-	c	*	Trace	57	34				
	Belfort	999·4	35	E	5	m	987·8	*	30	-4	ENE	7	*	f	*	-	41	28				
	Lyons	995·0	42	-	0	o	979·9	*	41	+4	S	2	*	p	*	6	47	37				
	Nice	1000·3	48	E	1	c	981·9	-15	40	-2	E	4	*	p	4	36	46	37				
	Perpignan ...	992·6	50	S	2	o	974·3	-12	52*	+3	S	3	S	c	*	1	63	48				
	Sanguinaire ...	*	53	S	3	c	*	*	?	-	SE	5	*	o	5	-	56	52				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	993·2	*	WSW	5	m							*									
	Madeira																					
	Gibraltar	990·2	56	W	11	p	991·3	*	52	0	NW	9	*	p	7	126	61	48				
	Malta	*	*	*	*	*	1004·8	-3	61	0	SSW	3	W	c	2	-	66	61				
	Limassol	*	*	*	*	*	1017·6	0	54	-7	-	0	W	o	3	-	68	45				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

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

GALES
Duration and Extreme Force in British Islands.

Glasgow: E, 8; 22h, 6th – night.

Eskdalemuir:
Extreme: 28 m/s, 17h. 6th.
Extreme: E, 8, 2h. 7th.

Malin Head:
E, 8; 7h, 6th – 7h 7th.
Extreme: E, 10, late evening

Donaghadee:
S.E., 8; 7h, 6th – 7h, 7th.

Southpent:
E, 8; 21h, 6th – 7h; 7th
Gusts, 27 m/s

Dungeness:
E, 8; 2h, 7th. – 7h, 7th

Spurn Head:
SE, 8; 7h, 6th – 7h; 7th

Benson:
Gusts, 22 m/s during day.

Aberdeen:
Gusts, 22 m/s, 18h, 6th

Kew:
Extreme, 22 m/s, 3h 50m. and 5h 55m, 7th.

Wick:
SE, 8, 7h, 6th – 4h, 7th

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	68	93	0·1	41	29	29	1	0	0	0
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	84	93	0·0	43	30	31	1	ob	ob	oen
CAMDEN SQ. (British Rainfall) ..	79	85	0·0	44	29	30	Trace	0	0	*
HAMPSTEAD (Reservoir)	*	96	0·3	41	26	23	Trace	c.oms	os	ox
S. KENSINGTON (Museum Grounds)	*	86	0·0	43	33	30	1	0	0	0
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

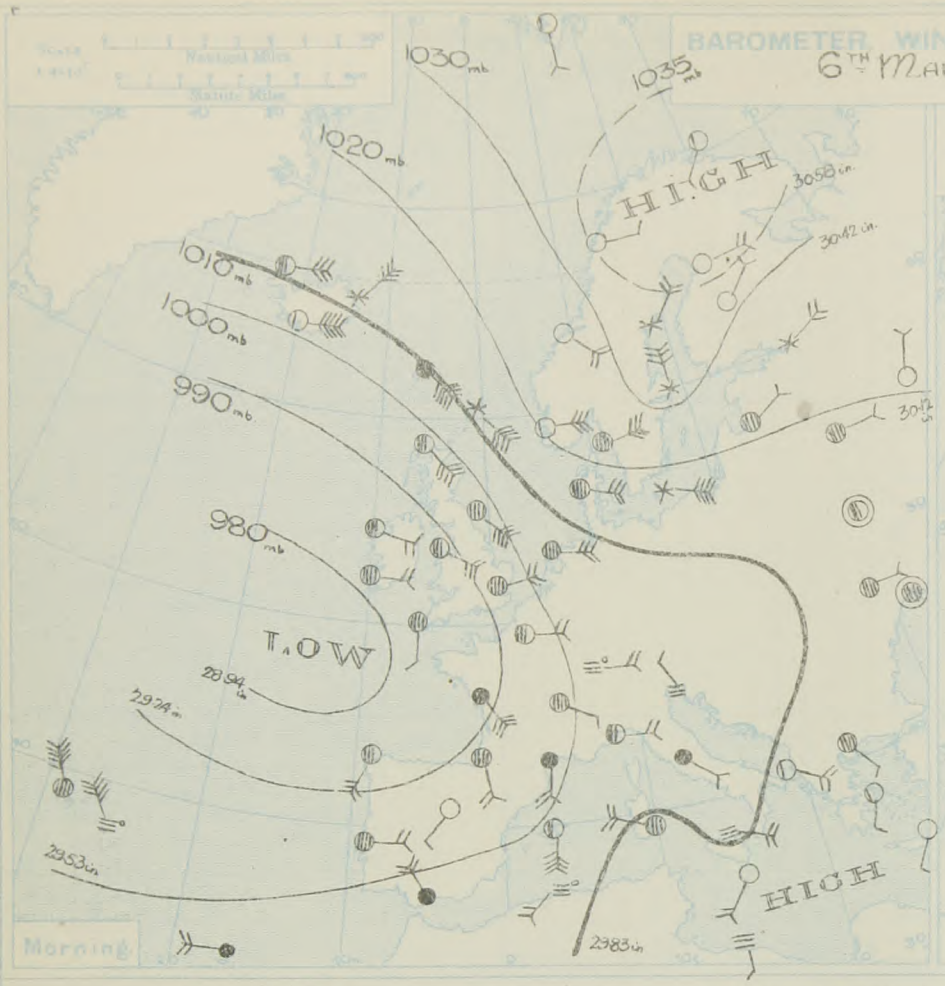
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
296	7·4	23·5

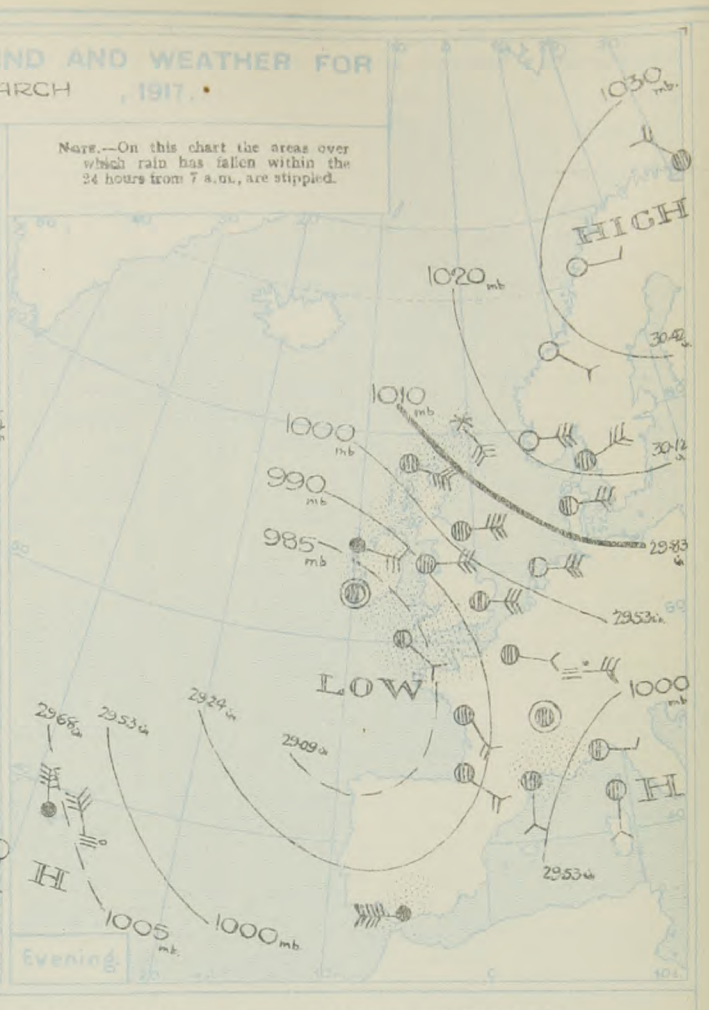
Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 6TH MARCH, 1917.



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 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.

Cones hoisted yesterday afternoon.

0 {a b} 1 2 {a b} 3 4 {a b c} 5 6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b}

Squally Easterly to North-Easterly wind, strong to a gale; dull, some sleet or snow; cold.

Western Channel and Bay 11 — Squally Easterly to Northerly wind, strong to a gale; high sea; dull, some rain or snow; cold.

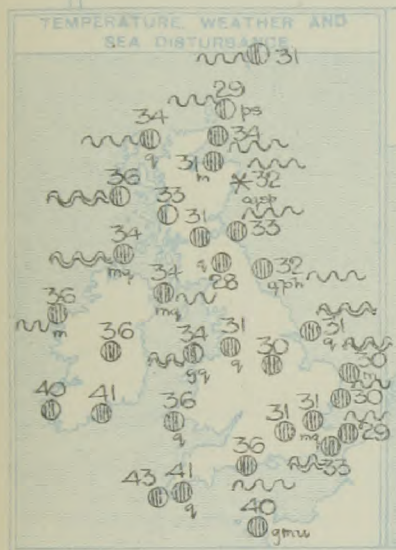
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF Wednesday, 7th MARCH, 1917.

GENERAL INFERENCE.

The cold, inclement conditions will be maintained.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ~~~.

Scale 1 : 12 000 000
Nautical Miles 0 1 2 3 4 5
Statute Miles 0 1 2 3 4 5 6

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

1035 mb
1030 mb
1025 mb
1020 mb
1015 mb
1010 mb
1005 mb
1000 mb
995 mb
990 mb
985 mb
980 mb
975 mb
970 mb
HIGH
30·56 in.
30·42 in.
30·27 in.
30·12 in.
29·97 in.
29·83 in.
29·68 in.
29·53 in.
29·38 in.
29·24 in.
LOW
32°
20°
50°
40°
Bar. steady
Barometer falling
Barometer rising
HIGH
29·53 in.

Issue No. 20.194

DAILY WEATHER REPORT.

Wednesday 7th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1038·4	0	—	0	b									*	
	Gorki	1016·4	10	NE	3	o	1013·3	9	5	-5	E	2	o	4	*	0
	Velieki Luki ...							*							*	
	Hangö	1027·7	18	—	0	o	1029·0	0	5	+4	E	2	bc	—	*	-2
	Riga	1023·3	7	ENE	1	b	1022·3	0	9	+11	ENE	2	o	—	*	-2
	Petrograd ...	1028·2	-4	NNE	3	b	1027·7	-1	5	-2	ENE	4	s	—	18	-4
	Moscow	1019·5	5	NE	2	o	1022·6	+2	-4	+11	NNE	2	b	—	*	-4
	Kiev	1018·3	10	WNW	2	b	1017·7	0	9	+11	—	o	c	—	*	-2
	Kharkov ...	1016·0	18	W	2	o	1018·9	+2	12	+12	—	o	o	—	*	o
	Kishinev ...	1019·1	14	—	o	o	1016·7	-1	16	+20	E	2	o	—	*	-6
	Elisabetgrad ...	1018·9	3	NNW	1	c									*	
	Nicolaiev ...	1019·3	10	NW	2	b	1019·8	*	10	+16	—	o	o	—	*	-6
	Odessa	1020·7	14	NNE	2	o	1018·9	-2	21	+18	SSE	3	o	—	*	3
	Tarkhankout...	1019·8	27	NE	2	o	1019·5	*	28	o	SE	4	o	—	*	18
	Soukhoum ...														*	
Mediterranean.	Venice	1007·4	37	NE	1	r	1006·2	*	34	o	NNW	1	f	20	37	34
	Pesaro	1008·2	43	SE	2	r	1007·4	*	37	+1	SW	1	o	14	52	35
	Rome	1010·5	52	SSE	3	o	1005·4	*	54	+8	SSE	2	r	16	54	46
	Viesti	1012·3	52	SE	2	o	1008·5	*	52	+7	SE	2	o	—	54	43
	Brindisi	1015·4	50	S	2	bc	1011·3	*	54	+11	SE	4	b	—	55	43
	Cagliari	1010·5	57	NE	4	o	1011·8	*	55	+1	NW	4	o	2	61	48
	Palermo						1009·5	*	63	+8	ESE	4	f	—	66	52
	Tripoli						1015·3	*	55	-14	S	1	m	—	71	56
	Algiers	1009·6	55	W	3	o	1006·3	+3	63	+4	SW	3	m	Trace	63	52
Sweden.	Hernösand ...	1032·7	18	N	4	o	1033·7	*	25	+15	NE	4	s	*	*	*
	Stockholm ...	1028·3	27	NE	2	b	1032·4	*	16	o	N	6	s	*	*	*
	Wisby	1022·4	16	NE	2	b	1035·0	*	18	+4	NE	2	s	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1011·1	36	-6	E	6	c
Reykjavik	1002·9	34	-3	E	6	b
Vestmanna	1000·0	36	-3	E	10	b
Seydisfjord	1011·4	32	-4	NE	6	s
Thorshavn	1008·0	36	+1	SE	9	r

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	-	-	39	31	oc	o	0·1
	Banff	1	-	34	29	ops	ops	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	4	-	33	30	o	o	0·0
	Skegness	Trace	-	35	33	o	o	0·0
Eng. N.W.	Morecambe	1	-	36	32			0·0
	Southport	-	-	38	31	o	o	0·0
Midlands.	Leamington Spa							
	Malvern	Trace	-	44	35	c	c	0·0
	Ross-on-Wye	1	-	48	37	bc	bc cm	2·4
Wales.	Rhyl	1	-	40	31	cd.o	c.o	0·0
	Colwyn Bay...	*	*	41	35	c	c o	0·0
	Llandudno	*	*	41	36			0·3
	Aberystwyth	*	*	46	35	or. c	bc. o	0·8
	Tenby							

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	Trace	-	36	34	o	o	0·0
	Felixstowe	Trace	-	39	32	of	omq	0·0
	Walton-on-Naze							
	Southend-on-Sea	-	-	43	32	o	o	1·5
England. S.E.	Margate	-	-	42	32	of c.	c	0·5
	Ramsgate							
	Hastings	Trace	-	45	38	od.bc.b	b bc.o	4·2
	Eastbourne	1	-	43	35	bc.o	o.bc	3·3
	Seaford	*	*	47	36	—	—	—
	Brighton	-	-	48	36	c.	c	3·4
	Worthing	-	-	46	38	bc	bc	2·1
	Littlehampton	Trace	-	45	38	bc.o	bc o	2·2
	Bognor	*	*	44	40	bc.	bc.o	3·8
	Bournemouth	-	1	45	38	o	or	0·2
England. S.W.	Weymouth...	*	*	43	40	cp	cp	*
	Torquay	3	Trace	45	42	op	ocp	0·8
	Paignton	*	*					
	Penzance	13	1	49	42	or	bcf	1·6
	Newquay	12	10	48	39	rq	p	1·0
	Bude							
	Ilfracombe	7	1	49	39	pc	pc	0·5
	Weston-s-Mare	1	Trace	52	38	bc. b	bc. cr	3·0

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

7th & 8th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·29	12·4	5·39
	6·26	12·4	5·41
Greenwich	6·35	12·11	5·47
	6·33	12·11	5·49
Wick	6·54	12·23	5·52
	6·51	12·23	5·54
Valencia	7·17	12·62	6·28
	7·15	12·52	6·30

NOTES ON YESTERDAY'S WEATHER.

Temperature was low generally. Rain or snow showers fell locally. As a rule there was no sunshine, but Aberystwyth registered 5⅓ hours.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 67

Thursday 8th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING. 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 ...	1013·0	32	ESE	3	cpd	1005·6	-1	28	-3	SSE	4	–	3	4	3	34	27	bc	c	cs	*
	Deerness (Orkney)	1011·2	30	ESE	4	obs	1006·1	*	28	-1	SW	3	–	o	3	1	33	26	c.obs	obsh	o	0·5
	Stornoway ...	1009·0	33	ESE	7	cq	1007·6	-2	28	-6	WNW	3	–	o	3	–	37	28	cq	cq	cq.o	2·7
	Castlebay (Barra Isd.)	1005·6	36	ESE	4	o	1008·4	0	29	-7	NE	1	–	b	2	–	37	28	c.o	o.c.o	o.c.b	1·2
	Glasgow ...	1005·2	28	NE	5	c	1008·0	+2	23	-8	N	1	NE	c	*	0·4	32	21	o.c.osp	o.csp	cps.bc	1·4
	Eskdalemuir ...	1003·7	25	NE	5	os	1006·3	+2	20	-8	N	3	NE	c	*	0·2	28	17	o.os	os.o.os	osp.bc	0·2
	Malin Head ...	1001·9	34	E	7	cq	1007·2	+2	28	-6	E	4	E	cmsx	4	–	36	27	cq ms	bcq	cmx	1·6
	Blacksod Point	998·5	34	E	4	cm	1006·3	+2	29	-7	E	3	E	cg	3	–	36	28	cg	cg	cm	*
	Valencia ...	996·5	38	NE	4	oz	1004·2	+2	33	-7	E	3	N	ox	3	–	42	38	c.oz	oz	oz	0·1
	Roche's Point	995·7	36	NE	3	o	1005·3	*	27	-14	NE	3	–	b	3	0·3	41	27	cme.o	cm.c.o	o.b	*
	Birr Castle ...	997·2	34	ENE	2	o	1006·9	*	25	-11	E	1	–	b	*	–	37	25	o	c.o	o.b	0·9
	Donaghadee ...	1001·9	32	E	7	cmq	1006·9	+3	27	-7	E	3	E	bc	2	–	36	25	cmq	cmq	bq.bcq	*
	Liverpool (Bidston)	998·5	30	NE	4	s	1004·5	+3	23	-8	N	2	–	b	3	–	32	21	o.c	oq	b	1·7
	Holyhead ...	997·8	33	E	8	oqm	1005·4	+3	28	-6	ENE	5	E	bc	5	–	35	26	c.oq	c.oq	o.cps.c	3·7
	Pembroke (St. Ann's)	992·4	32	NNE	6	bc	1004·7	+8	24	-12	ENE	3	–	b	2	–	37	22	cq.bcq	bcq	bc.b	2·1
	Scilly (St. Mary's)	988·6	37	NE	4	smp	1002·4	+7	35	-8	NNE	3	NE	c	4	–	44	33	cm	oms	om.c	0·0
	Falmouth ...	988·9	35	N	3	bz	1002·9	+7	28	-13	NNE	3	–	o	*	–	41	28	ol	oz.bcz	b.bc.o	0·2
	Jersey (St. Aubin)	990·5	36	NE	6	ogu	998·8	*	31	-9	NNW	4	–	osp	4	0·2	40	30	ogupt	gu.spu	ogsp	0·0
	Portland Bill ...	985·0	33	NE	7	bc	999·4	+8	25	-11	N	6	–	bx	4	–	39	24	o	o.c	bc.c	*
	Dungeness ...	983·2	32	E	9	c	992·3	+7	26	-11	N	5	–	qs	4	2	39	24	c.o	o.c	o.qcs	*
	Dover	986·3	30	NNE	8	o	985·8	+6	25	-4	N	6	N	bc	4	0·3	31	24	o	o	ops	0·0
	Wick	1010·5	30	SE	5	o	1006·7	-4	21	-13	W	2	–	bc	3	0·2	34	20	cmqbs	o.cmps	opbcm	*
	Nairn	1008·9	29	E	2	bc	1007·4	*	19	-12	–	0	–	bc	1	0·4	35	18	o.csp	c.bc	bcsp	4·3
	Aberdeen	1009·0	28	ENE	6	c	1006·5	0	21	-11	NW	2	–	bc	5	3	44	21	ospq	cspq	cqsp	0·4
	Leith	1004·7	31	NE	4	o	1006·1	+1	26	-7	N	3	N	c	4	1	34	25	ogs.o	o.csg.o	o.cs.c	*
	Tynemouth ...	1003·0	28	E	7	omqph	1003·1	0	28	-4	NE	6	N	cmqph	6	1	32	25	omqph	omqph	emqps	*
	Spurn Head ...	995·0	32	ESE	7	o	998·8	+1	27	-4	NE	7	–	oqps	6	1	33	26	oqh	oqps	oqps	0·0
	Yarmouth ...	992·7	30	E	8	o	994·8	+4	25	-5	NE	8	–	emqps	7	–	30	24	bcq	om	bcqps	5·5
	Clacton-on-Sea	989·0	30	NNE	6	c	995·8	+5	25	-5	N	4	–	bc	3	–	32	24	og.c	c	ops.bc	1·1
	Nottingham ...	996·0	29	NE	6	c	1001·3	*	22	-8	N	3	–	b	*	0·1	33	21	o.c	os.c	cs.b	2·7
	Benson (Oxon.) ...	990·3	28	NE	6	bc	999·8	+6	23	-8	NW	4	–	os	*	Trace	32	22	oq	bc	oq.o	*
	Sth Farnborough	988·7	28	NE	5	bc	998·5	+7	23	-8	NNW	3	–	b	*	Trace	32	22	os.om	o.bc	bc.os.b	0·3
	London (Kew Obsy.)	989·3	29	NE	6	bq	998·5	+6	23	-8	N	3	–	bm	*	–	34	23	omq..oq	oq.bq	bq.ops.bm	2·2
NORTHERN EUROPE.	Spitsbergen ...	1021·3	32	SW	4	c	1017·1	0	25	–	NW	4	*	o	*	*	32	25				
	Vardö	1039·9	27	–	0	b	1036·7	-3	21	-9	? –	0	–	b	3	*	30	28				
	Bodö	1029·7	27	E	1	b	1029·3	-2	25	-3	E	4	–	b	2	–	30	23				
	Christiansund ...	1018·9	25	E	6	b	1016·7	-2	23	-2	ENE	4	–	b	4	–	32	23				
	Skudesnaes ...	1013·0	21	ENE	6	b	1007·3	-3	21	-4	NE	6	–	o	2	–	25	18				
	Færder (X'tania Fjord)	1013·9	18	ENE	7	o	1010·4	-1	18	+2	ENE	8	–	o	3	–	18	14				
	The Scaw (Skagen)	1012·2	18	ENE	8	o	1002·3	-4	21	+5	ENE	10	–	o	8	–	21	?				
	Blaavands Huk	1002·1	18	ENE	4	s	991·9	-5	25	+1	NE	5	–	s	5	Trace	25	14				
	Copenhagen ...	1004·6	18	ENE	8	c	992·7	-3	27	+14	ENE	9		s	*	1	28	14				
	Bornholm ...	1001·9	19	E	10	s	990·3	-5	27	+11	ESE	10	–	s	4	1	28	19				
FRANCE, &c.	The Helder ...	991·9	25	NE	9	b	989·7	0	27	+6	N	6	–	s	3	Trace	27	21				
	C. Gris Nez ...	981·6	31	NE	8	o	991·7	+6	28	-2	N	8	*	s	8	Trace	30	27				
	La Hêve	984·6	30	ENE	6	o	994·6	*	28	-9	NE	6	*	s	6	–	41	28				
	Brest (St. Mathieu)	984·6	40	NE	4	o	1001·9	+7	35	-8	NNE	3	*	o	4	2	46	34				
	Rochefort (Ile d'Aix)	974·0	42	N	6	r	997·6	+11	37	-6	NNW	7	*	o	*	6	48	34				
	Biarritz	976·6	47	SW	6	r	998·3	+9	48	-5	NW	6	*	r	7	6	59	43				
	Paris	977·0	32	NE	5	s	990·4	+8	25	-12	N	4	–	o	*	?	41	23				
	Belfort	978·4	32	ENE	4	o	983·8	*	28	+2	–	o	*	m	*	–	35	28				
	Lyons	977·5	37	SSE	2	o	986·1	*	37	-4	WNW	6	*	o	*	14	47	37				
	Nice	981·9	43	SW	3	b	981·3	o	42	+2	WSW	5	*	c	7	27	50	37				
	Perpignan ...	977·6	52	WSW	3	o	990·3	+9	50	-2	NW	7	NW	o	*	1	63	41				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1007·5	*	SW	9	m	1002·0	+2	57	–	SW	8	*	r	5	2	61	55				
	Madeira																					
	Gibraltar	1010·8	52	NW	6	b	1015·9	*	53	+1	NW	8	*	b	4	16	55	44				
	Malta	*	*	*	*	*	1003·8	0	57	-4	SW	4	–	m	2	–	70	54				
	Limassol	*	*	*	*	*																
	Alexandria ...	1020·0	61	NNE	2	b	1020·3	+1	57	-6	SSE	2	–	b	1	–	73	54				
	Cairo (Helwan) ...	1018·6	64	NE	2	b	1018·6	+1	57	+5	–	o	–	b	*	–	72	52				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	86	90	2·2	33	23	21	–	o	o.c	c.o
CITY (Bunhill Row)	*	*	1·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	100	100	1·5	35	24	24	–	os.bc	bc	bcs
CAMDEN SQ. (British Rainfall) ...	68	61	0·3	34	22	21	–	o	o	*
HAMPSTEAD (Reservoir)	*	91	1·4	30	20	14	–	bc.ox	ox	bcxs
S. KENSINGTON (Museum Grounds)	*	93	1·2	35	24	19	–	o	bcq	cq.oq
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules. 413	Milliwatts. 10·2	Milliwatts. 42·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

UPPER AIR

South Farnborough. Pilot Balloon Ascent at ...7.10...

900 m. NNE, 14 m/s
600 m. NNE, 17 m/s
300 m. N, 11 m/s
Surface, N by W, 3 m/s

Note

Leith: 1cm. snow lying: Th.
Aberdeen: 2 cm. snow lying, Th.
Nice: Thunderstorm ac 20h. Th

GALES

Duration and Extreme Force in British Islands

Malin Head:
E, 8; 7th., 7h – 16h.

Dungeness:
E, 9; 7th, 7h – Evening

Dover:
NNE, 8; 7th, 14h – 18h.
Extreme, NE, 9, 17h.

Aberdeen:
Gusts, 20 m/s, afternoon

Yarmouth:
ESE – NE, 8; 7th, 7h – 8th, 7h

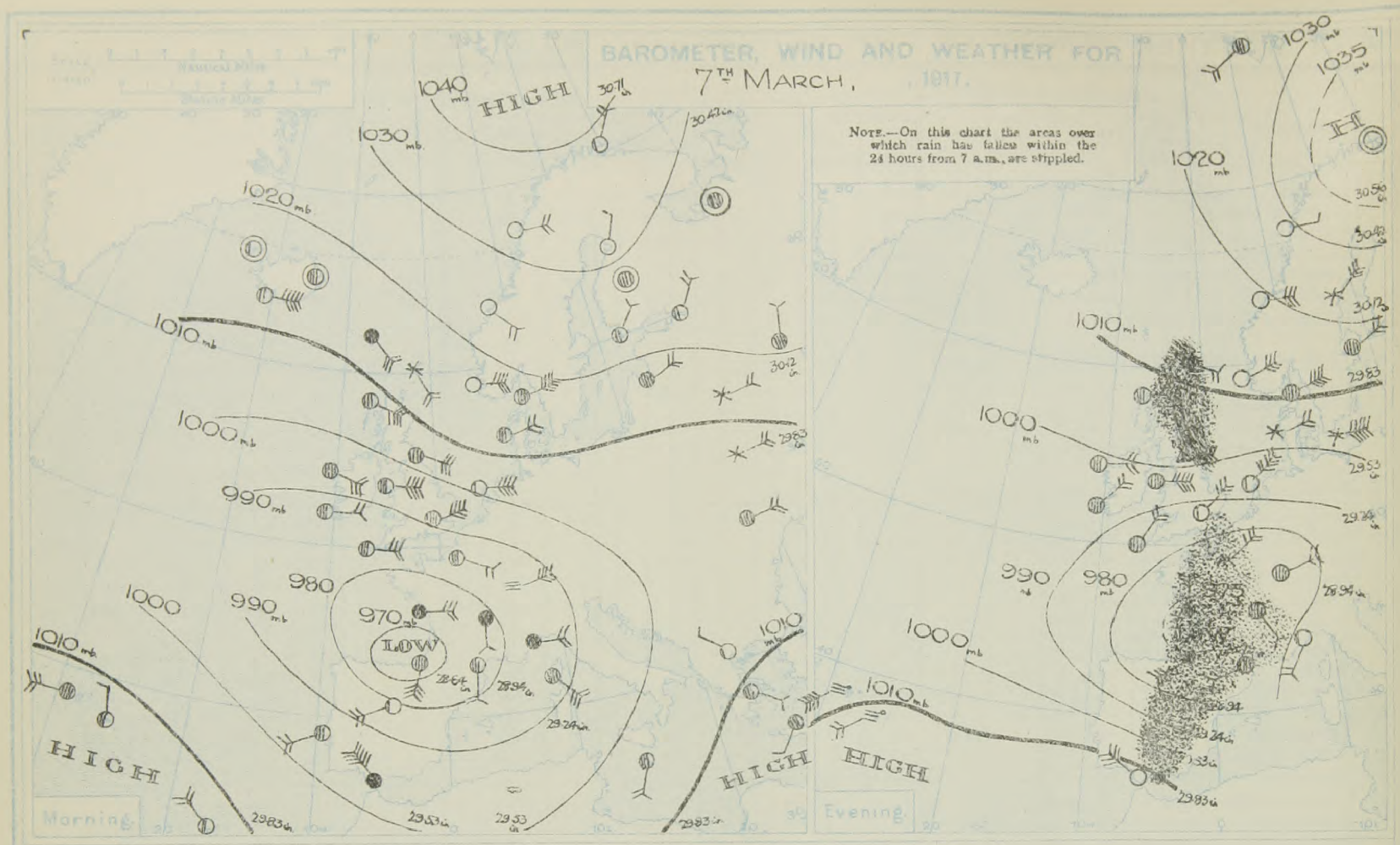
Nottingham:
Extreme, E, 9; 7th, 11h

Kew:
Maximum Gust:
ENE, 24 m/s
7th, 14h 7m.

Holyhead
E – ENE, 8; 7th, 7h – 8th, early morning.
Extreme: ENE, 9:
7th, 13h. and 20m.

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

BAROMETER, WIND AND WEATHER FOR 7TH MARCH, 1917.



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.

NORTH CONE Hoisted yesterday evening.

0 a, b, 1 } Westerly breezes, light to moderate, doubtful later changeable, some snow; cold.

2 a, b, 3, 4 a, b, c, 5 } North-East to North wind, moderating; fine genera some snow showers; cold.

6 a, b } Same as Nos. 0 - 1.

7 a, b, 8 a, b, 9 a, b, 10 a, b } Variable breezes between North and East, moderate; fair to fine, some snow showers; cold.

11 { Northerly wind, moderating; sea rather rough; fair generally, some cold showers.

FURTHER OUTLOOK.

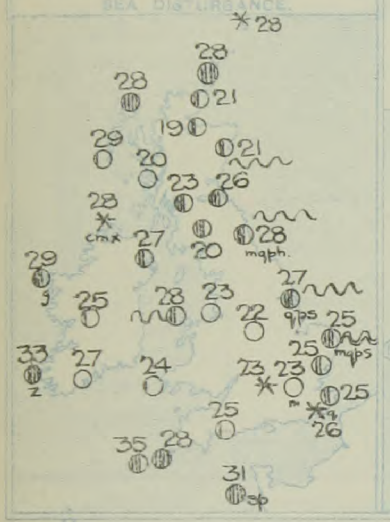
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF THURSDAY. 8TH MARCH, 1917.

GENERAL INFERENCE.

The depression beyond Scotland will occasion unsettled conditions in the far North. Elsewhere fairer cold conditions will hold.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

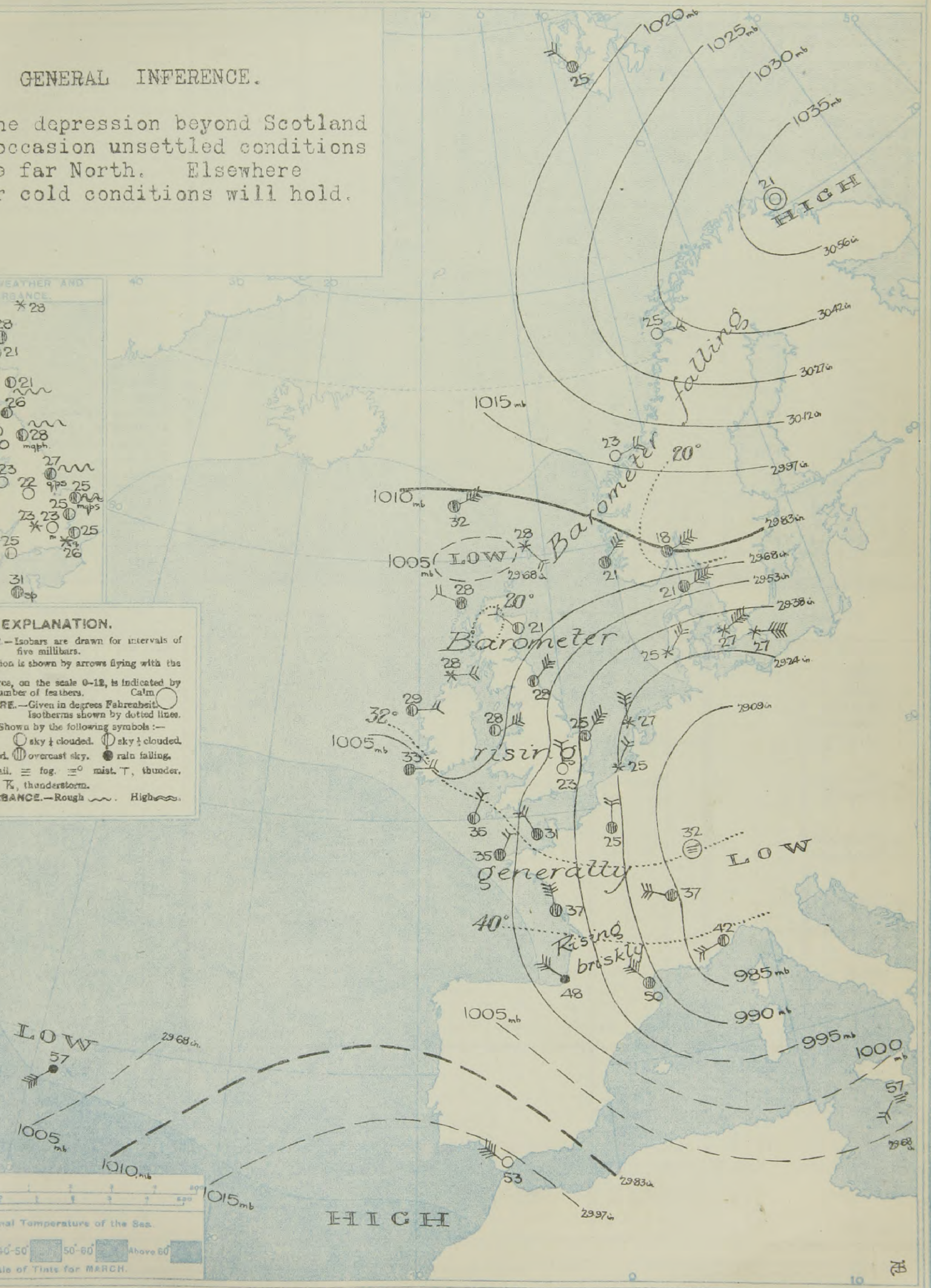
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



Scale 1 : 9 x 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

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

Scale of Tints for MARCH.

Issue No. 20 195 — DAILY WEATHER REPORT. — Thursday 8th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...						1024·4	+1	12		—	0	0	—	*	5
	Gorki	1016·3	10	E	1	0	1011·9	−4	9	+4	E	3	5	—	*	−8
	Velieki Luki ...	1024·2	1	—	0	b	1019·5	*	−2		—	0	5	—	*	−6
	Hangö	1028·7	9	ESE	3	5	1024·0	−1	1	−4	NE	2	bc	—	*	−2
	Riga	1018·9	6	ENE	2	b	1017·3	0	5	−4	E.NE	4	0	—	*	−2
	Petrograd ...	1026·7	7	ENE	3	b	1023·8	−2	1	−4	NE	3	bc	!	9	0
	Moscow	1023·5	9	NE	2	b	1020·8	+2	3	+7	NNE	2	0	—	*	−4
	Kiev	1014·4	16	ENE	3	0	1005·9	−4	18	+9	ENE	4	5	6	*	9
	Kharkov ...	1019·7	18	ESE	2	5	1013·7	−3	16	+4	E	2	5	?	*	12
	Kishinev ...	1006·1	34	—	0	0	1002·9	+1	25	+9	E	4	0	2	*	16
	Elisabetgrad ...	1014·3	18	ESE	4	5	1002·3	−6	28		SE	4	5	8	*	16
	Nicolaiev ...							*							*	
	Odessa	1009·0	37	SSW	4	m	1000·8	−4	?		WSW	3	0	—	*	24
	Tarkhankout ...	1012·8	43	S	7	b		*							*	
	Soukhoum ...	1019·4	34	NW	1	c	1015·4	+5	39		—	0	0	1	*	?
MEDITERRANEAN.	Venice	1008·1	34	—	0	f		*								
	Pesaro	1002·7	41	—	0	r		*								
	Rome	1004·6	64	SW	2	c		*								
	Viesti	1004·5	52	—	0	0		*								
	Brindisi	1007·0	55	SE	3	c		*								
	Cagliari	1009·1	59	NW	4	c		*								
	Palermo	1009·0	21	ENE	1	b		*								
	Tripoli						1006·1	*	72	+17	SSW	1	b	—	81	55
	Algiers															
SWEDEN.	Hernösand ...	1031·8	16	NE	4	b	1022·3	*	14	−11	NE	6	5	*	*	*
	Stockholm ...	1025·1	12	NNE	4	5	989·9	*	9	−7	NE	6	0	*	*	*
	Wisby	1027·0	14	NNE	2	c	1015·1	*	12	−6	NE	2	5	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...	1018·3	34	−2	—	0	b
Reykjavik	1013·6	39	+5	E	6	0
Vestmanna	1013·0	41	+5	E	9	bc
Seydisfjord	1017·7	37	+5	—	0	c
Thorshavn	1017·8	36	0	SE	5	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	—	—	36	32	bc	bc	4·9
	Banff	1	Trace	32	27	bcps	bcps	2·6
	Montrose							
	Carnoustie	*	*					
	St. Andrews	Trace	Trace	34	29	.	s	0·4
Eng. N.E.	Harrogate	—	Trace	29	24	osp	osp. c	0·0
	Skegness	—	—	31	29	b	0	3·2
Eng. N.W.	Morecambe							
	Southport	—	—	32	29	o.c	c.os c	0·7
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	19	—	33	29	chfr	c. bc	1·9
Wales.	Rhyl	4	—	32	29	sx	cx	0·2
	Colwyn Bay	*	*	36	30	c	c. o	3·0
	Llandudno	*	*	39	30	c. c	c. c	2·5
	Aberystwyth	*	*	34	30	o. o. c	c. cs	1·0

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	—	—	31	28	bc.	bc. c. o	4·0
	Felixstowe	—	—	31	28	c. bcq	bcq	2·3
	Walton-on-Naze	—	—	34	28	bc.	bcr	0·9
	Southend-on-Sea	—	—	31	28	o	o	0·0
England. S.E.	Margate	—	—	32	28	o	o	0·0
	Ramsgate							
	Hastings	—	—	40	28	o	o	0·0
	Eastbourne	1	—	42	31	oq	oq	0·0
	Seaford	*	*	42	29	o.	o.	0·0
	Brighton	1	—	33	31	o.	o	0·3
	Worthing	1		33	30			0·0
	Littlehampton	3	—	45	30	o. o.	bc. o	0·3
	Bognor	*	*					
	Bournemouth	1	—	36	31	o. o.	bc	1·8
England. S.W.	Weymouth	*	*	35	33	o. c	c. bc	0·1
	Torquay							
	Paignton	*	*					
	Penzance	—	—	39	37	o. c	c	0·0
	Newquay	—	—	38	34	c	c	0·0
	Bude	2	—	—	34	c	c	0·8
	Ilfracombe	9	—	36	34	o	o	0·0
	Weston-s-Mare	Trace	—	30	31	o. c.	c	0·0

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

8th & 9th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·26	12·14	5·41
	6·24	12·14	5·43
Greenwich	6·33	12·11	5·49
	6·31	12·11	5·51
Wick	6·51	12·23	5·54
	6·49	12·23	5·56
Valencia	7·15	12·52	6·30
	7·13	12·52	6·32

NOTES ON YESTERDAY'S WEATHER.

Temperature was very low generally and the wind very keen. Slight cold showers fell locally. Sunshine was very variable, none in many places to 5½ hours at Yarmouth.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 68

Friday 9th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1008·5	29	SSE	3	bc	1007·4	−1	26	−2	ESE	1	–	bc	1	2	29	26	os	bc	bc	*
	Deerness (Orkney)	1006·1	31	SSW	4	ou	1006·1	*	30	+2	S	5	SW	b	4	Trace	32	27	ops	ops	o.c.bc.b	0·0
	Stornoway ...	1003·8	31	WSW	5	osq	1003·2	+1	32	+4	SW	6	–	cq	5	6	34	20	osq	osq	cpsq	0·3
	Castlebay (Barra Isd.)	1006·7	35	SW	4	bc	1004·4	−2	34	+5	SW	4	–	ohg	5	–	35	28	bc	bc	bc.ohp	8·5
	Glasgow ...	1009·2	27	ESE	1	oz	1006·4	−1	17	−6	E	1	–	bz	*	–	33	16	c.bc.z	c.oz	c.bc.bx	4·5
	Eskdalemuir ...	1010·3	18	N	2	b	1009·7	0	11	−9	N	2	W	bx	x	–	27	6	b.bc.bs	b	b.bx	9·5
	Malin Head ...	1008·0	32	S	1	cv	1002·0	−3	30	+2	S	3	E	cx	3	0·2	35	25	bc	cv	bx	3·1
	Blacksod Point	1006·1	31	SE	4	cg	996·8	−3	30	+1	ESE	4	SE	cq	4	–	36	28	c	bc	cg	*
	Valencia ...	1004·6	36	SE	4	oz	992·8	0	42	+9	SE	3	SW	c	3	2	42	32	oz	oz	oz.op	0·0
	Roche's Point	1008·4	35	ESE	4	0	995·1	*	38	+11	ESE	5	–	0	6	7	38	27	bc.o	o	or.o	*
	Birr Castle ...	1008·1	31	SSE	1	0	996·8	*	30	+5	SE	2	–	s	*	1	34	24	c	c.o	os	3·9
	Donaghadee ...	1009·6	30	SSW	2	bemps	1004·3	−3	31	+4	SSE	4	–	ogmq	3	0·1	38	26	bemps	bemps	bemgq	*
	Liverpool (Bidston)	1009·6	29	?ENE	2	b	1005·9	−3	25	+2	E	3	–	bcz	2	–	32	23	b	b	bc	6·2
	Holyhead ...	1009·7	31	E	3	b	1002·0	−4	29	+1	E	4	–	omg	3	–	36	26	cp.cps	bcps	b.o.cx	6·5
	Pembroke (St. Ann's)	1010·2	31	S	2	b	998·0	−11	32	+8	?E	5	–	s	4	0·1	34	22	b	b	b.oqs	10·0
	Scilly (St. Mary's)	1009·2	34	SSE	2	c	996·6	+2	48	+13	W	5	W	cqp	6	5	48	32	c	c	c.om.mr	1·0
	Falmouth ...	1010·0	30	S	1	b	996·6	−9	43	+15	WSW	3	–	op	*	10	43	27	os.bc	b	b.orp	8·5
	Jersey (St. Aubin)	1010·2	33	NNW	3	0	1004·0	*	35	+4	SE	6	–	o	4	4	35	29	csp	c.o	c.oqs	1·5
	Portland Bill ...	1009·6	33	WNW	1	b	1003·3	−9	32	+7	SE	6	–	os	5	2	34	25	bc	bc.b	bc.os	*
	Dungeness ...	1006·2	30	N	3	bc	1009·7	−1	33	+7	SSW	3	S	c	3	–	33	22	bc	bc	b.c.bc	*
	Dover	1006·6	30	NW	6	c	1010·7	0	25	0	[illegible]	0	NW	o	2	–	33	20	os	c	c.o	8·4
	Wick	1007·4	32	WSW	2	o	1006·0	0	30	+9	S	2	–	bc	4	–	32	20	bc.ogm	omg	omg.bc	*
	Nairn	1005·8	29	–	0	cg	1006·1	*	23	+4	–	0	–	bc	1	–	34	19	bc	bc.c	cb.ex	5·3
	Aberdeen	1008·8	28	SSW	2	b	1008·4	−1	20	−1	SSW	2	–	b	3	Trace	33	18	bes.bp	b	bz	6·4
	Leith	1008·7	28	WNW	1	b	1008·5	0	21	−5	SW	1	–	b	3	–	32	20	c.b.c.b	bz.bc.b	bz.bc.b	*
	Tynemouth ...	1007·9	30	N	2	c	1009·0	−1	19	−9	W	2	S	cm	4	–	32	19	cmqph	cqph	bcm	*
	Spurn Head ...	1005·3	32	N	6	bcqps	1008·7	0	28	+1	N	5	–	bcps	6	0·2	33	25	bcqps	bcqps	bcps	0·7
	Yarmouth ...	1003·8	30	N	4	bc	1009·5	+1	22	−3	NW	3	–	bm	4	–	33	20	bcqps	bcqps	bcm	4·5
	Clacton-on-Sea	1006·3	30	?WNW	4	bc	1010·5	0	25	0	WNW	1	NW	c	0	–	34	22	bc	bc	b.bcmx	7·3
	Nottingham ...	1008·6	30	NW	2	cm	1008·4	*	19	−3	E	1	NE	cmx	*	–	33	15	bc	cm	c.bm	5·2
	Benson (Oxon.) ...	1008·7	29	NW	1	b	1006·8	−3	26	+3	NW	3	–	ox	*	–	32	21	c	c	b.o	*
	Sth Farnborough	1008·6	29	W	1	b	1007·9	−3	26	+3	ESE	2	–	omx	*	–	34	19	bc.c	c.b	b.omx	7·7
	London (Kew Obsy.)	1009·1	31	WNW	2	bm	1008·8	−3	27	+4	ESE	2	–	omx	*	–	35	21	bm.cs.o	o.bm	bm.omx	6·3
NORTHERN EUROPE.	Spitsbergen ...	1020·3	−4	–	0	b	1021·2	0	−18	−33	S	1	*	b	*	*	25	−22				
	Vardö	1039·1	23	SSE	1	b	1028·0	−4	19	−2	SW	3	–	c	3	*	23	18				
	Bodö	1028·6	28	E	1	b	1023·9	−3	21	−4	E	4	–	b	2	–	27	19				
	Christiansund ...	1016·2	27	E	3	b	1012·0	−1	30	+7	SE	4	–	o	4	–	30	23				
	Skudesnaes ...	1008·0	25	E	5	o	1010·4	0	25	+4	NE	4	–	s	2	?	25	21				
	Færder (X'tianiaFjord)	1011·7	19	ENE	8	o	1013·7	+2	21	+3	NE	7	–	o	3	–	21	18				
	The Scaw (Skagen)†	1004·8	23	NE	9	o	1007·7	+3	27	+2	ENE	7	–	o	8	–	27	21				
	Blaavands Huk†	995·7	27	NE	3	s	1002·6	+4	27	0	ENE	3		s	3	1	28	27				
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	998·3	32	NW	6	m	1006·9	+4	34	+7	WNW	5	– *	c	2	1	32	23				
	C. Gris Nez ...																					
	La Hève	1011·9	30	NW	3	o	1008·8	*	30	+2	SE	5	*	o	3	–	34	28				
	Brest (St. Mathieu)	1010·6	38	E	2	o	1001·6	−3	44	+11	SW	4	*	s	4	8	44	?				
	Rochefort (Ile d'Aix)	1013·2	38	NW	4	bc	1009·2	−3	39	+2	SSE	5	*	r	*	5	43	34				
	Biarritz	1012·7	47	WSW	4	o	1011·9	0	54	+6	WSW	4	*	o	4	–	54	46				
	Paris	1009·3	30	NW	3	c	1013·6	+1	25	0	SSE	2	W	bc	*	Trace	36	21				
	Belfort	1008·2	23	W	7	s	1018·4	*	21	−11	W	2	*	c	*	.3	33	20				
	Lyons	1010·6	29	NW	3	s	1017·6	*	28	−9	WNW	2	*	c	*	–	37	27				
	Nice	992·2	47	NE	6	b	1003·0	+8	47	+5	NE	1	*	b	5	–	57	37				
	Perpignan ...	1008·4	45	NW	5	c	1015·3	+3	39	−11	–	0	– *	o	*	–	50	34				
	Sanguinaire ...	*					*	*														
SOUTHERN STATIONS.	Corunna																					
	Madrid	1015·5	48	WNW	2	bc	1021·7	+3	43	+6	SW	1	–	b	*	–	48	39				
	Lisbon																					
	Azores (Horta) ...	1005·5	*	W	6	c	1007·5	+1	49	−8	NW	5	*	r	3	6	59	48				
	Madeira	1020·0	57	NW	2	c	1020·2	−2	54	+2	W	3	–	o	3	–	59	54				
	Gibraltar	1022·7	53	NW	4	b	1021·7	*	51	−2	NW	4	*	b	3	1	61	50				
	Malta	*	*	*	*	*	1008·4	0	55	−2	WNW	6	–	bc	4	2	59	52				
	Limassol	*	*	*	*	*	1013·6	0	61	+7	W	2	–	b	3	–	66	43				
	Alexandria ...	1016·7	61	ENE	2	b	1011·5	−1	55	−2	SE	2	–	b	0	–	72	52				
	Cairo (Helwan) ...	1015·1	68	N	2	b	1012·7	0	61	+4	SE	2	–	b	*	–	84	52				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning	Weather. Afternoon.	Weather. Night
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	78	90	5·7	34	19	16	–	b.bc	bc.o	os
CITY (Bunhill Row)	*	*	5·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	100	100	4·1	35	22	22	–	bcs	bc	oms
CAMDEN SQ. (British Rainfall) ..	85	64	6·2	35	20	20	–	bc	bc	*
HAMPSTEAD (Reservoir)	*	95	6·3	30	21	14	–	bcm	omx	oxs
S. KENSINGTON (Museum Grounds)	*	95	5·3	35	25	16	–	eq.c	c.b	b.c.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

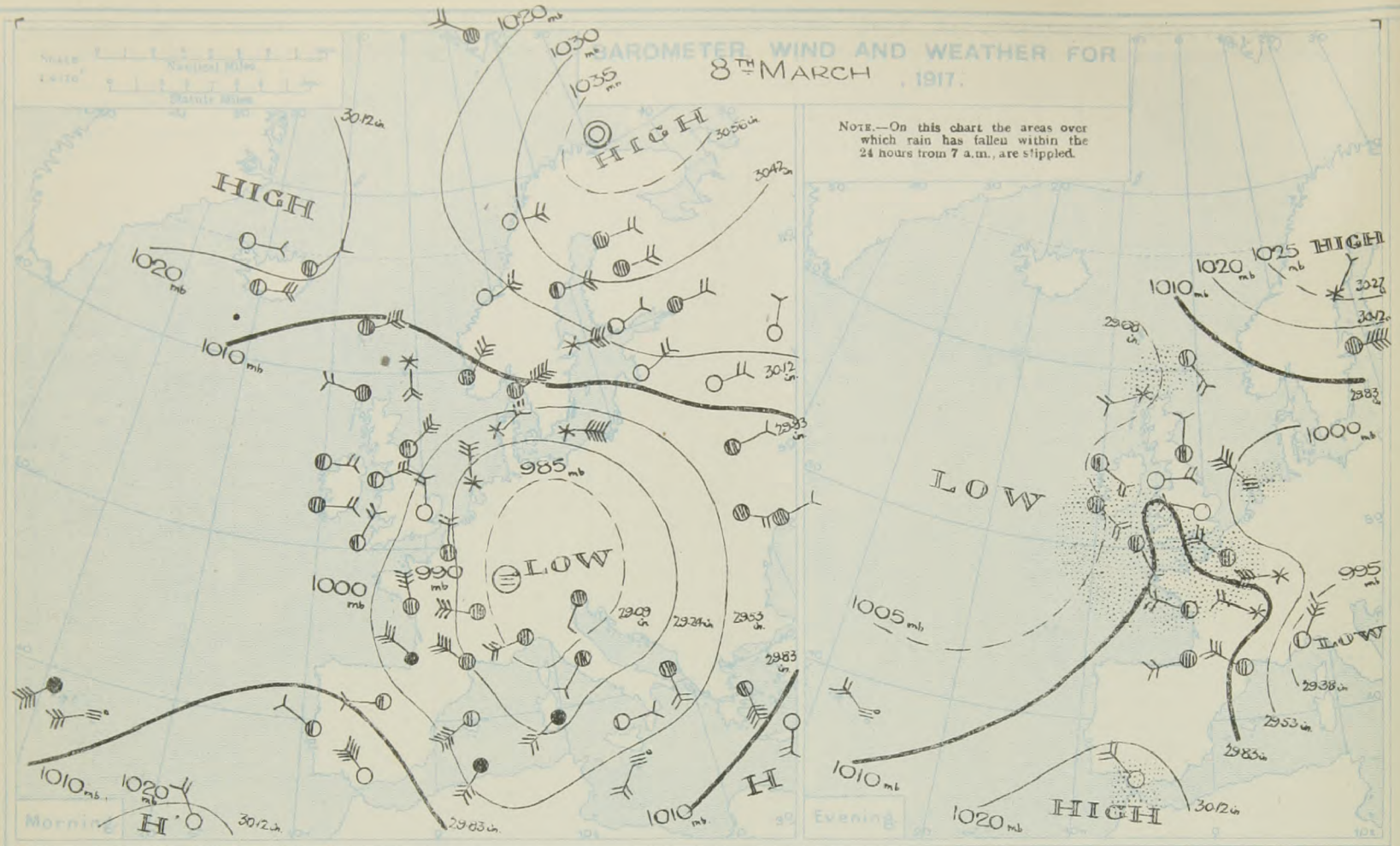
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
717	17.7	48.0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

South Cones Hoisted 2.45 this morning.

Western Channel and Bay

0 1 2 — Southerly to South-Easterly wind, freshening; changeable, some snow; cold.

3 4 — Easterly wind, freshening; unsettled, some snow; cold.

5 — South-Easterly wind, freshening and veering Westerly later; unsettled, some snow; cold.

6 — Same as Nos. 0 - 2.

7 — Same as Nos. 3 & 4

8 — Easterly wind, backing Northerly, freshening; unsettled, some snow; cold.

Westerly wind, veering Northerly, freshening; unsettled, some rain or snow; temperature variable.

9 — Same as Nos. 3 & 4.

10 — Easterly to North-Easterly wind, freshening; unsettled, some snow; cold.

11 — South-Westerly to Westerly wind, fresh to strong; sea rough; unsettled, some rain; moderate temperature.

FURTHER OUTLOOK.

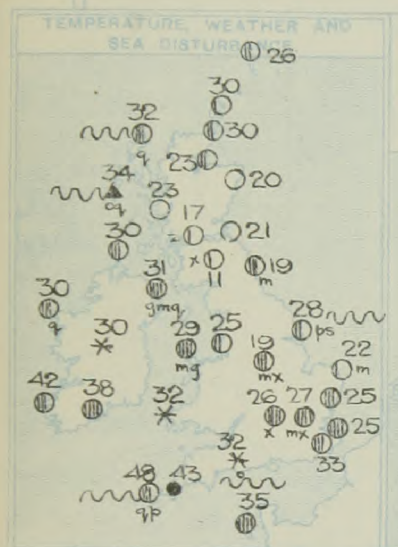
R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 9TH MARCH, 1917.

GENERAL INFERENCE.

Unsettled conditions are likely to prevail generally.



EXPLANATION.

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

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1/24·30000000
Nautical Miles
Statute Miles

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

1020 mb
1025 mb
1015 mb
1010 mb
1005 mb
1000 mb
995 mb
HIGH
30·27 in
30·12 in
29·97 in
29·83 in
29·68 in
Bar.
LOW
falling
Barometer
unsteady LOW
rising LOW
HIGH

Issue No. 20,196

DAILY WEATHER REPORT.

Friday. 9th March. 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F.
RUSSIA 7 a.m. and 0 p.m. Local Time.	Archangel ...	1030·3	23	NE	2	o	0	+3	-2	-14	?	2	b	—	×	-4
	Gorki	1013·6	12	E	1	b	1012·3	?	3	-6	E	3	b	—	×	3
	Velieki Luki ...						1020·6	×	-4	-2	—	0	b	—	×	-6
	Hangö	1020·8	10	ESE	2	s	1023·4	0	5	+4	ENE	2	b	—	×	-2
	Riga	1016·0	12	E	2	b	?1019·8	-1	9	+4	ENE	3	b	—	×	5
	Petrograd ...	1023·5	3	ENE	3	b	1026·4	+1	12	+11	E	3	o	—	12	o
	Moscow	1019·5	9	NE	2	b	1022·0	0	0	-3	NNE	2	b	—	×	-2
	Kiev	1008·4	21	N	3	o	1007·8	-1	23	+5	E	2	o	3	×	16
	Kharkov ...	1010·0	21	SW	2	o	1010·6	+1	21	+5	ENE	2	o	?	×	16
	Kishinev ...	1008·7	25	—	o	bc	1003·1	-5	27	+2	ESE	3	o	—	×	21
	Elisabetgrad ...	1007·0	27	NW	2	o	1008·3	-1	25	-3	ENE	2	o	2	×	25
	Nicolaiev ...	1008·2	25	—	o	c	1008·2	×	23		E	2	o	—	×	19
	Odessa	1009·5	20	NNW	2	o	1006·1	-5	28		ESE	4	o	—	×	26
	Tarkhankout...	1010·3	34	NW	4	bc	1006·9	×	39		SE	5	o	2	×	32
	Soukhoum ...														×	
MEDITERRANEAN.	Venice	981·4	45	ENE	1	o	982·1	×	41	+2	SW	1	o	10	46	37
	Pesaro	982·8	64	W	3	o	984·6	×	46	-3	—	o	o	—	55	45
	Rome	989·3	55	SW	1	o	989·1	×	52	-2	SW	2	o	12	66	50
	Viesti	989·3	59	SE	4	o	988·7	×	54	+2	SW	5	c	—	59	39
	Brindisi	994·3	55	S	4	o	992·6	×	57	+3	S	4	o	—	66	54
	Cagliari	992·5	59	SSE	6	r	988·3	×	54	-5	SW	5	r	17	63	48
	Palermo	995·1	61	SW	5	o	993·9	×	52		E	2	b	7	66	46
	Tripoli							×								
	Algiers	995·1	52	SW	6	c	996·8	+2	48		SW	6	r	5	72	46
SWEDEN.	Hernösand ...	1025·5	18	NE	6	s	1028·2	×	16	+2	E	4	c	×	×	×
	Stockholm ...	1016·2	12	NE	4	o	1016·7	×	18	+1	E	8	s	×	×	×
	Wisby	1011·0	12	NE	2	s	1007·9	×	21	+9	E	6	o	×	×	×

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1015·7	37	+3	E	5	bc
Reykjavik	1019·0	34	-5	E	3	b
Vestmanna	1021·5	34	-7	E	2	b
Seydisfjord	1021·3	30	-7	NE	2	c
Thorshavn	1009·0	32	-4	ENE	7	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	—	—	34	18	b	b	8·3
	Banff	1	—	32	17	ps. b	b	7·9
	Montrose							
	Carnoustie	×	×					
	St. Andrews							
Eng. N.E.	Harrogate	—	Trace	29	16	bc. cs	c. bc. b	6·1
	Skegness	—	—	33	23	cps	cps	6·0
Eng. N.W.	Morecambe							
	Southport	—	—	33	22	b	b	9·6
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	—	—	35	22	x bc	bcm	9·0
Wales.	Rhyl	—	—	32	23	c. dc	bc	8·9
	Colwyn Bay...	×	×	33	25	bc	bc	8·2
	Llandudno	×	×	35	26	bs. b	b.	7·7
	Aberystwyth	×	×	32	19	oc. b	b. bo	10·0
	Tenby							
England. E.	Lowestoft	Trace	Trace	33	24	c. ops	c. ops. c	6·3
	Felixstowe	Trace	—	34	22	cs. bc	bc	7·6
	Walton-on-Naze							
	Southend-on-Sea	—	—	33	23	b. bc	b. bc	6·3
England, S.E.	Margate	Trace	—	33	25	b	b	7·2
	Ramsgate							
	Hastings	—	—	32	24	bc. b	b.	6·8
	Eastbourne	—	—	36	25	b. bc	o. bc. b	5·4
	Seaford	×	×	34	24	bcs s	bc	6·6
	Brighton							
	Worthing	—	—	35	24	b. bc	bc. b	9·7
	Littlehampton	—	—	33	24	bc. b	b.	9·0
	Bognor	×	×	34	29	s. bc	bc	8·2
	Bournemouth	—	—	36	22	b	b	9·8
England. S.W.	Weymouth...	×	×	36	23	b	bx	9·5
	Torquay							
	Paignton	×	×					
	Penzance	Trace	—	36	28	oc	bc	3·0
	Newquay	—	Trace	33	26	s. b	b	6·6
	Bude	—	—	37	27	b	b	8·7
	Ilfracombe	—	—	34	25	b	b	10·4
	Weston-s-Mare	—	—	36	24	b	b. bc	9·5

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

9th & 10th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6·24 6·22	12·4 12·4	5·43 5·45
Greenwich	6·31 6·29	12·11 12·11	5·51 5·53
Wick	6·49 6·47	12·23 12·23	5·56 5·59
Valencia	7·13 7·11	12·52 12·52	6·32 6·34

NOTES ON YESTERDAY'S WEATHER.

Temperature remained very low all day. Rain or snow showers fell in many localities. Generally there was much sunshine, up to 10½ hours at Ilfracombe.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 69

Saturday 10th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0-12.	Weather.	THIS MORNING. 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 ...	1007·5	35	S	3	o	1010·3	o	35	+9	S	4	S	c	4	1	36	26	bc	bc.c	csp	*
	Deerness (Orkney)	1007·1	33	S	5	bc	1008·1	*	36	+5	SSE	5	SE	bc	5	-	36	30	c	c.bc	c	8·3
	Stornoway ...	1004·4	28	SW	1	oz	1003·3	-2	35	+3	SE	3	-	o	3	-	37	25	c.bc	bc.ox	o	8·0
	Castlebay (Barra Isd.)	1003·4	35	ESE	5	o	1002·6	-1	38	+4	ESE	5	-	odpm	6	0·3	38	32	sp.bcm	om	spd.pm	0·6
	Glasgow ...	1006·2	31	ESE	2	cm	1007·7	o	29	+12	ENE	2	-	oms	*	0·2	34	17	b.bc.cz	cm	cz.osb	4·4
	Eskdalemuir ...	1006·6	29	E	4	o	1008·6	+1	28	+17	ESE	3	-	o	*	-	31	10	bz.bc.c	c.o	o	5·6
	Malin Head ...	1000·5	32	SE	3	omps	1000·3	+1	38	+8	S	4	SW	cq	4	0·3	38	30	omx	omps	cq	0·3
	Blacksod Point	997·1	36	ESE	3	cg	999·2	+1	43	+13	S	3	S	cgp	3	6	43	29	omps	og	cg.cgp	*
	Valencia ...	999·0	47	S	3	bc	1000·5	o	47	+5	S	2	-	o	3	4	52	41	c.op	bc.c.op	bcpc.o	4·9
	Roche's Point	999·9	45	S	1	c	1003·1	*	44	+6	SE	1	-	f	4	2	45	37	o.bc	cpg	c.op.of	*
	Birr Castle ...	998·9	38	SSE	1	c	1002·5	*	39	+9	SSE	1	S	c	*	1	39	30	os.o	o.c	op.cx	0·8
	Donaghadee ...	1002·3	33	SE	5	ofqs	1004·0	+2	38	+7	S	4	-	ofq	4	1	38	31	omq	ofqsp	ofqr	*
	Liverpool (Bidston)	1003·8	30	E	3	s	1006·9	o	31	+6	ESE	3	E	o	3	1	32	25	o.cq	os	o	0·1
	Holyhead ...	1001·5	35	E	3	omg	1004·8	o	41	+12	S	4	-	fe	3	0·2	41	29	opsm	opsm	o.cfe	0·0
	Pembroke (St. Ann's)	1002·8	43	NNE	3	bc	1006·4	+1	42	+10	S	2	-	f	3	4	44	30	oqps b	b.be	bc.ef	4·6
	Scilly (St. Mary's)	1004·4	49	W	4	cm	1004·7	-2	48	o	S	3	SW	omr	4	3	52	45	bcm	bcm	cm.omr	8·5
	Falmouth ...	1005·3	48	SW	4	bcm	1005·6	-2	46	+3	S	2	-	oem	*	1	54	42	cp.bc	bcq.bz	c.oem	7·7
	Jersey (St. Aubin)	1006·4	48	W	4	c	1009·2	*	43	+8	S	2	-	fe	2	2	51	35	ogrw.o	o.be	bc.ofe	3·8
	Portland Bill ...	1003·2	44	WSW	5	bc	1008·5	o	42	+10	ESE	1	-	f	3	5	45	32	ors	c.bc	bcf	*
	Dungeness ...	1004·6	35	SSW	4	o	1009·8	+1	39	+6	-	o	-	f	3	1	39	?	os	os	o.cf	*
	Dover	1007·0	34	S	1	3	1011·0	+3	39	+14	SE	1	-	f	2	0·3	39	25	ops	ops	ofe	0·0
	Wick	1006·8	33	C	3	bc	1007·7	o	36	+6	SE	4	-	c	4	-	37	29	bcm	bcm	bc.omg	*
	Nairn	1005·8	30	o	-	bc	1005·7	*	30	+7	-	o	-	c	1	-	37	22	bc.b	b.bc	bc.c	9·3
	Aberdeen	1008·3	34	SSE	3	o	1009·3	o	36	+16	SE	4	-	o	3	-	36	19	b.bcz.c	c.o	o.c.o	4·7
	Leith	1006·3	33	SE	2	c	1007·7	o	32	+11	SE	1	-	o	2	-	36	20	bz.c.bc	c.bc.c	c.bc.co	*
	Tynemouth ...	1006·9	34	SE	4	cq	1009·0	o	33	+14	S	3	-	om	4	-	35	19	cmq	cq	om	*
	Spurn Head ...	1004·9	33	SSE	5	bc	1009·7	+1	35	+7	SSE	4	-	om	5	-	35	28	bcq	cq	oq	0·0
	Yarmouth ...	1007·3	33	S	5	o	1010·3	+3	35	+13	S	2	-	f	2	1	35	20	bcm.bc	bc.o	ompsf	2·5
	Clacton-on-Sea	1006·4	32	SE	4	s	1010·3	+2	35	+10	-	o	-	f	o	1	35	24	cm.o	ops	opsrf	0·0
	Nottingham ...	1005·5	30	SE	2	s	1009·3	*	31	+12	SE	1	-	om	*	2	33	17	c.os	s	os	0·0
	Benson (Oxon.) ...	1003·8	32	SSE	4	o	1008·6	+1	33	+7	SSE	3	-	f	*	-	35	26	os	o	c.o	*
	Sth Farnborough	1003·7	34	SE	2	r	1009·3	+2	32	+6	SE	2	-	f	*	2	36	25	osm	osm	oms	0·0
	London (Kew Obsy.)	1005·0	33	ESE	3	om	1010·0	+3	34	+7	SE	1	-	f	*	0·3	35	26	omx oms	oms.om	om.of	0·0
NORTHERN EUROPE.	Spitsbergen ...	1021·6	-26	S	2	b	1022·7	+1	-11	+7	-	o	*	m	*	*	-11	-27				
	Vardö	1022·4	14	WSW	2	b	1018·3	-9	16	-3	S	1	-	c	2	*	19	14				
	Bodö	1020·6	21	E	1	b	1017·6	-1	21	o	E	1	-	b	1	-	25	18				
	Christiansund ...	1013·1	34	SE	3	o	1016·8	o	30	o	SE	2	-	o	3	-	36	21				
	Skudesnaes ...	1014·1	27	ESE	5	o	1016·8	+3	27	+2	ESE	5	-	b	2	?	27	23				
	Færder (Christiania Fjord)	1017·2	23	ENE	6	o	1019·1	+1	21	o	ENE	6	-	o	2	-	23	21				
	The Scaw (Skagen)	1013·3	28	ENE	5	c	?1017·0	+1	25	-2	ENE	6	-	o	6	-	30	23				
	Blaavands Huk	1010·0	27	ESE	1	o	1014·7	+3	23	-4	ESE	1	N	o	1	Trace	28	21				
	Copenhagen ...	1009·6	25	ENE	3	o	1013·9	+3	27	-1	NE	3	-	s	*	5	28	25				
	Bornholm ...	1006·4	27	ENE	9	s	1011·0	+2	27	o	ENE	6	-	s	2	2	27	25				
FRANCE, &c.	The Helder ...	1009·3	30	SW	1	c	1012·7	+1	30	-4	ESE	1	-	o	1	1	36	28				
	C. Gris Nez ...	1005·6	32	SE	4	o	1010·1	+1	39	+11	S	3	*	f	3	5	39	28				
	La Hève	1007·3	36	SW	4	o	1011·3	*	41	+11	S	3	*	o	2	1	41	30				
	Brest (St. Mathieu)												*									
	Rochefort (Ile d'Aix)	1012·8	49	WSW	5	o	1013·7	-1	45	+6	S	3	*	m	*	6	52	39				
	Biarritz	1011·4	63	E	1	o	1013·1	-2	54	o	SE	2	*	b	2	-	66	48				
	Paris	1008·8	34	SSE	2	o	1013·3	o	36	+11	S	2	-	f	*	1	36	25				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice												*									
	Perpignan ...	1015·1	54	-	o	bc	1016·4	o	45	+6	WSW	1	-	b	*	Trace	59	39				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1005·5	*	WSW	7	bc	1008·4	+2	48	-1	NNW	7	*	c	5	6	55	45				
	Madeira	1016·4	59	WSW	3	c	1011·3	-3	57	+3	SW	3	-	r	3	29	59	55				
	Gibraltar	1018·3	55	E	3	b	1016·2	*	52	+1	SE	3	*	m	2	-	64	49				
	Malta	*	*	*	*	*	1014·9	o	57	+2	NW	4	-	o	3	-	59	54				
	Limassol	*	*	*	*	*	1003·3	o	59	-2	-	o		b	3	-	64	46				
	Alexandria ...	1009·0	63	N	S	b	1008·8	+1	61	+6	W	6	W	bc	4	2	84	52				
	Cairo (Helwan) ...	1006·9	72	S	2	b	1010·6	+3	57	-4	SW	1	NW	b	*	-	82	52				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours	°F	°F	°F	mm.			
GREENWICH (Royal Observatory)	100	100	0·0	37	30	27	1	o	o.cs	of
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	86	95	0·0	38	30	30	1	mos	mo	sdfe
CAMDEN SQ. (British Rainfall) ...	94	100	0·0	37	31	30	1	os	os	*
HAMPSTEAD (Reservoir)	*	98	0·0	36	26	23	2	osf	ofr	orxsb
S. KENSINGTON (Museum Grounds)	*	94	0·0	38	30	32	1	omx.o	ods	o.ome
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
242	5·9	14·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

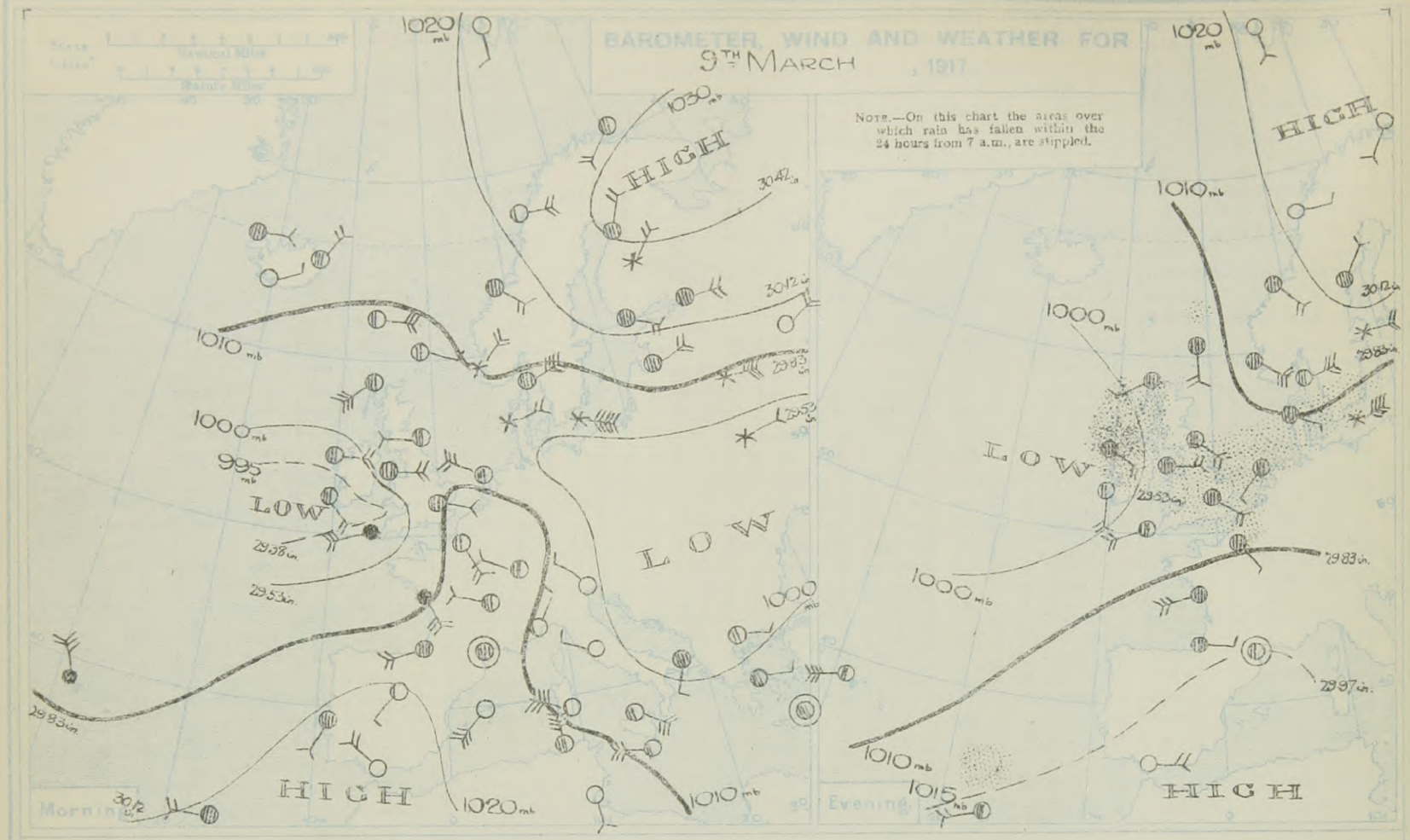
RAINFALL.

Equivalents of Millimetres in Inches.

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

* 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 9TH MARCH, 1917



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings issued.

Western Channel and Bay

0 (a b) 1 2 (a b) 3 4 (a b c) 5 6 (a b) 7 (a b) 8 (a b) 9 (a b) 10 (a b) 11

Calms and light variable breezes, mainly Southerly; dull, damp, some showers, mist or fog; milder.

Fresh Southerly winds; sea rough; some rain and fog.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 10TH MARCH, 1917.

GENERAL INFERENCE.

There are no definite indications of a decided change in the present quiet conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1 : 15 000 000
Nautical Miles
Statute Miles

Normal Temperature of the Sea

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

Scale of Tints for MARCH.

1020 mb. HIGH Barometer 30.12 in. falling

1015 mb.

1010 mb.

1005 mb.

1000 mb. Barometer falling

LOW 2953 in.

LOW 2968 in.

Barometer rising

1010 mb.

1005 mb.

1010 mb.

1015 mb.

2987 in.

2983 in.

2997 in.

HIGH

Issue No. 20,197. **DAILY WEATHER REPORT.** Saturday, 10th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1034·1	-6	SW	2	b	1033·9	0	5	+7	—	0	S	?	*	-8
	Gorki	1008·0	16	E	1	0	1002·0	-1	12	+9	E	1	S	—	*	1
	Velieki Luki ...	1018·0	10	E	2	0	1013·0	*	12	+16	ENE	4	0	—	*	-4
	Hangö	1021·3	18	ESE	6	bc	1025·0	+1	18	+13	ESE	3	0	—	*	5
	Riga	1012·3	14	ENE	5	b	1011·3	-1	10	+1	ENE	4	0	—	*	9
	Petrograd ...	1025·3	18	ENE	3	0	1019·1	-2	21	+9	E	4	0	—	21	12
	Moscow	1022·1	9	ENE	2	b	1023·5	+2	16	+16	ENE	4	b	—	*	-2
	Kiev	997·3	27	ESE	3	s	985·9	-6	32	+9	E	2	S	16	*	23
	Kharkov ...	1009·2	25	E	3	s	997·1	-6	27	+6	SE	4	0	?	*	21
	Kishinev ...	987·1	36	—	0	f	991·3	+4	36	+9	NW	1	bc	4	*	25
	Elisabetgrad ...						985·7	-1	37	+12	WNW	1	r	4	*	25
	Nicolaiev ...	992·8	41	SE	3	c	993·5	*	37	+14	SW	4	b	—	*	19
	Odessa						992·3	+4	36	+8	SW	4	b	*	*	28
	Tarkhankout...	996·6	46	SE	4	0	996·7	*	46	+7	SSW	4	bc	—	*	39
	Soukhoum ...	1008·7	61	NE	2	0	1004·2	-1	57		ENE	2	0	—	*	52
MEDITERRANEAN.	Venice	989·9	45	—	0	b	1000·9	*	43	+2	—	0	b	—	54	39
	Pesaro	991·7	43	SW	2	b	1001·3	*	43	-3	NE	4	0	3	59	39
	Rome	995·3	48	W	1	r	1001·9	*	46	-6	NW	1	b	1	57	45
	Viesti	990·9	55	SW	6	b	997·9	*	48	-6	WNW	1	tl	—	59	46
	Brindisi	990·9	64	SW	1	c	997·7	*	52	-5	SW	1	o	—	66	54
	Cagliari						1009·9	*	52	-2	NW	1	b	8	63	45
	Palermo						1005·8	*	52	0	SSE	5	bc	10	57	48
	Tripoli						1014·7	*	70		W	2	b	—	70	51
	Algiers															
SWEDEN.	Hernösand ...	1027·0	21	NE	2	s	1027·8	*	21	+5	NE	2	c	*	*	*
	Stockholm ...	1016·7	19	E	1	0	1021·6	*	19	+3	ENE	8	s	*	*	*
	Wisby	1007·0	20	NE	4	0	1012·2	*	21	0	ENE	6	0	*	*	*

ICELAND.	Morning. Baron Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1019·9	34	-3	E	2	0
Reykjavik	1016·2	36	+2	E	3	b
Vestmanna	1015·0	34	0	NE	1	b
Seydisfjord	1017·2	30	0	NE	3	C
Thorshavn	1006·3	31	-1	ESE	6	c

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	—	—	36	19	b.bc.c	bc.c	3·4
	Banff	-	—	33	15	b	b	9·4
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	—	—	36	15	b	b	5·8
Eng. N.E.	Harrogate	—	—	33	16	bc.c	co	0·0
	Skegness	—	—	31	20	c.	co	3·0
Eng. N.W.	Morecambe							
	Southport	—	Trace	33	21	o	o s.o	0·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	1	4	34	21	So	So	0·0
Wales.	Rhyl	—	—	31	19	co	c.s	0·0
	Colwyn Bay...	*	*	32	24	co	So	0·1
	Llandudno	*	*	33	22	o	o	0·2
	Aberystwyth	*	*	36	25	s.so	oc.c	0·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	Trace	—	37	21	co.e	co	3·0
	Felixstowe	—	—	34	20	bcm.sm	os	0·1
	Walton-on-Naze							
	Southend-on-Sea	—	—	33	24	q	q	0·0
England. S.E.	Margate	—	—	34	24	o	o s q	0·0
	Ramsgate							
	Hastings	—	1	36	25	oc	os.o	0·0
	Eastbourne	—	2	37	22	os	os.o	0·0
	Seaford	*	e	36	22	s	r	0·0
	Brighton	—	3	35	22	o.s	s.o	0·0
	Worthing	—	4	36	21	So	So	0·0
	Littlehampton	—	1	35	24	o	so	0·0
	Bognor	*	*	37	30	s.co	s.co	0·0
	Bournemouth	2	1	42	23	so	c.b	0.6
England. S.W.	Weymouth...	*	*	44	27	so.c	c.bc.bz	0·8
	Torquay	10	—	52	27	o.c.bc	bc	6·3
	Paignton	*	*					
	Penzance	8	—	55	31	bc	bc	8·4
	Newquay	5	—	52	26	b	b	6·5
	Bude	2	—	50	29	b	b	5·8
	Ilfracombe	2	Trace	49	24	bo	bc.c	3·4
	Weston-s-Mare	6	2	45	25	s.c	c.bc.cm	0·3

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

10th & 11th March. 1917.	Sunrise G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth	6·22 6·20	12·4 12·3	5·46 5·47
Greenwich	6·29 6·26	12·11 12·10	5·53 5·55
Wick	6·47 6·44	12·23 12·22	5·59 6·1
Valencia	7·11 7·8	12·52 12·51	6·34 6·35

NOTES ON YESTERDAY'S WEATHER.

There was a decided rise in temperature in the South-West, elsewhere it remained very cold. Slight rain or snow fell in many places. The day was sunless in many localities, very sunny in others, 9½ hours at Banff and Nairn.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No.70

Sunday 11th March

	STATIONS	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	1008·6	38	SSE	5	oq	1006·2	0	36	+1	SE	6	–	o	6	1	38	35	c s p q	c o q	o m q	*
	Deerness (Orkney)	1004·0	37	SE	7	o r q u	1002·7	*	36	+1	SE	6	–	o r	5	1	38	26	c. c. o	o r q	o q r	1·4
	Stornoway ...	9999	41	S	5	oq	998·8	0	41	+6	SSE	3	–	c	3	2	42	35	o p	o p. o q	c	0·0
	Castlebay (Barra Isd.)	1001·0	42	S	5	d m	998·7	-1	41	+3	ESE	4	–	o m	4	1	42	37	d p. d m	d m	o m d	0·0
	Glasgow ...	1004·7	37	ENE	2	c	996·9	-1	32	+3	NNE	2	–	o s	*	14	38	29	o s p	o r s p, c	c. o p. o s	0·0
	Eskdalemuir ...	1005·6	34	NNE	2	o r	994·4	-3	32	+4	N	4	–	o s	*	12	36	28	b c. o s p	o. o d	o r, o r s	0·0
	Malin Head ...	999·6	44	S	4	b c m	998·2	0	39	+1	SE	1	–	o m	2	–	47	38	c m	b c m q	o m	5·7
	Blacksod Point	998·2	45	SSW	3	b c m	997·8	-1	41	-2	SW	1	–	c g p	2	2	49	40	b c p	b c m	b c. c g p	*
	Valencia ...	998·9	48	SSW	2	c p	998·8	0	44	-3	–	0	–	c p	3	7	52	40	o. c p	c	b c. c c p	1·6
	Roche's Point	997·7	45	NW	1	c g	1000·4	*	40	-4	NW	1	–	f	3	5	47	36	f r	o r. c g	c. b. o f c	*
	Birr Castle ...	998·9	45	SSE	1	c	999·7	*	33	-6	SE	1	S	b	*	0·2	47	33	c	c	c p p, b x	0·1
	Donaghadee ...	1001·4	40	SE	4	o f q	996·9	+3	39	+1	NNE	5	–	o g m q	4	4	41	37	o f q	o f p q	o f t. m q	*
	Liverpool (Bidston)	1002·2	37	E	3	r	999·0	+6	38	+7	SW	3	–	o g	3	16	44	31	o g	o r	o q	0·0
	Holyhead ...	999·6	46	E	5	o r m	998·8	+4	40	-1	WSW	4	W	o	4	18	47	39	s. o m e	o. o r m.	o r. o e. s	0·0
	Pembroke (St. Ann's)	996·1	45	S	5	f r	1000·8	+2	40	-2	NW	1	NW	c	4	28	45	40	f f r o r	o r. f r	f r. b c. c	0·0
	Scilly (St. Mary's)	997·3	50	SSW	4	o m r	1000·9	-1	44	-4	ESE	2	–	o	4	6	51	43	o m r	o m r	c. o	0·0
	Falmouth ...	998·7	48	S	6	o d m q	1000·4	0	42	-4	W	2	–	o	*	11	50	41	o r	o r, o q r	o d. o	0·0
	Jersey (St. Aubin)	1005·6	51	SSW	3	c	1001·4	*	45	+2	S	3	–	o e	3	1	53	42	f c. b c. b	a p. b c. c	o. b. o e	0·3
	Portland Bill ...	1003·2	45	SW	3	c p	1001·5	0	42	0	SW	1	–	o r	4	5	45	40	o f. o.	c r	o r	*
	Dungeness ...	1008·0	42	SSW	2	f	1002·2	-1	43	+4	SSW	3	SW	c	4	3	44	36	o f	o f	o f r. c	*
	Dover						1002·0	-4	43	+4	SSW	6	S	o	2	2	43	37			o r. b	0·0
	Wick	1001·4	38	W	6	o	1002·1	-3	36	0	W	5	–	r	6	1	40	35	c. o m q	o m q	q u. o m r	*
	Nairn	1003·3	41	SSE	2	o m	1000·4	*	34	+4	–	0	–	d r q	1	1	44	29	c g	c. b c. c i n	a c d	1·3
	Aberdeen	1007·8	38	SE	5	o	1001·1	-3	34	-2	ESE	6	–	o r, s p q	5	6	38	34	o q	o q	o q r. p s	0·0
	Leith	1005·2	38	E	1	o	999·5	-2	34	+2	NE	3	–	s	4	10	40	31	o m. o. c	c m. c. o	o r. s. s	*
	Tynemouth ...	1006·9	38	SE	4	o m	992·8	-10	40	+7	SSE	2	–	o g m	4	14	40	33	o m	o m	o m r	*
	Spurn Head ...	1007·8	37	S	4	o m	997·2	0	41	+6	SW	5	–	o	5	7	43	35	o m	o m	f	0·0
	Yarmouth ...	1008·9	37	SSE	2	m	1000·5	+1	43	+8	SSW	4	–	c m	4	5	44	35	f	f	o f. m r	0·0
	Clacton-on-Sea	1007·5	38	ESE	2	r	1002·3	0	40	+5	SSE	3	S W	c	2	1	41	35	f. o m	o g m p	o g m p. c	0·0
	Nottingham ...	1005·5	39	SE	2	r	998·7	*	41	+10	WSW	2	S W	o	*	10	47	31	o m	r	o r	0·0
	Benson (Oxon.) ...	1004·8	43	SE	5	o	1000·8	+2	43	+10	SSW	2	–	o	*	4	47	33	o m p	r	o r. o	*
	Sth Farnborough	1004·9	43	SSE	4	o r	1001·3	+1	44	+12	SW	2	–	o	*	4	48	32	f r	o r	o r. o	0·0
	London (Kew Obsy.)	1005·7	44	SE	3	o m d	1001·9	+2	46	+12	SW	3	–	o	*	2	48	33	f o m	o m d	o m d. o m r	0·0
NORTHERN EUROPE.	Spitsbergen ...	1016·7	28	SW	3	o	1015·0	-	23	+	N	4	*	s	*	*	28	11				
	Vardö	1016·3	28	–	0	b	1011·5	-3	27	+11	NNE	2	–	o	4	*	28	16				
	Bodö	1018·4	23	E	4	c	1016·3	0	23	+2	E	1	–	b	1	–	23	18				
	Christiansund ...	1017·5	32	SE	1	o	1016·2	-0	27	+3	–	0	–	b	3	–	34	24				
	Skudesnaes ...	1017·0	27	ESE	5	b	1014·1	-2.	25	-2	SE	8	–	b	4	–	30	21				
	Færder (Christiania Fjord)	1020·4	25	ENE	2	b	1022·3	0	19	-2	NE	1	–	c	1	–	25	19				
	The Scaw (Skagen)	1019·9	23	NE	2	c	1018·0	0	23	-2	E	1	–	c	1	–	27	23				
	Blaavands Huk	1017·1	21	E	1	c	1015·0	-2	21	-2	SE	3	–	b	3	–	28	14				
	Copenhagen ...	1018·0	27	ESE	1	o	1018·7	0	21	-6	SE	2	–	b	*	–	30	19				
	Bornholm ...	1016·2	25	ENE	4	o	1018·4	+1	23	-4	NE	1	NE	b c	1	1	27	21				
FRANCE, &c.	The Helder ...	1012·4	34	E	2	o	1005·5	-3	34	-4	SE	3	–	m	1	–		32				
	C. Gris Nez ...	1008·2	43	SE	2	o	1002·7	+1	48	+9	S	4	*	c	2	Trace	48	39				
	La Hève	1005·0	50	SSE	3	c	1003·0	*	52	+11	SSE	3	*	c	1	–	52	41				
	Brest (St. Mathieu)	1003·3	48	SSW	5	o	1000·4	-2	46	.	E	3	*	o	5	4	50	46				
	Rochefort (Ile d'Aix)	1008·2	55	SE	3	c	1002·6	+1	48	+3	SSE	3	*	c	*	–	66	45				
	Biarritz	1007·5	64	S	3	c	1003·5	0	60	+6	SSW	5	*	b	4	–	70	57				
	Paris	1010·6	46	SSE	2	f	1005·5	-1	45	+9	SSE	2	W	b	*	1	48	36				
	Belfort	1014·7	48	–	0	b	1012·3	*	37	+1	E	2	*	c	*	–	57	35				
	Lyons	1012·4	52	–	0	b	1008·6	*	50	+11	SSW	4	*	b	*	–	62	39				
	Nice	1013·9	48	–	0	b	1015·4	0	45	-3	–	0	*	b c	2	–	63	39				
	Perpignan ...	1009·7	55	NE	2	b	1009·9	0	50	+5	–	0	–	o	*	–	64	45				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1005·3	59	SSW	6	c	1002·4	+1	50		S	3	S	c	4	1	61	48				
	Madrid	1010·3	61	ENE	2	b c	1009·7	-1	46	+5	SE	1	–	c	*	–	61	41				
	Lisbon	1009·1	57	SSW	4	c	1005·7	+1	50	+2	SW	4	-	b c	6	9	59	48				
	Azores (Horta) ...	1001·0	*	NNW	6	b	1017·1	+2	54	+6	W	5	*	b								
	Madeira	1013·0	57	W	4	r	1017·9	+2	52	-5	NW	3	–	b	3	2	61	52				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1018·4	+1	57	0	ESE	3	–	b c	2	–	63	55				
	Limassol	*	*	*	*	*	1009·9	+1	55	-4	–	0	W	c	5	6	64	45				
	Alexandria ...	1008·4	57	WNW	5	c	1007·5	0	58	-3	WNW	7	W	o	6	5	77	54				
	Cairo (Helwan) ...	1010·0	61	NW	2	c	1010·7	+2	54	-3	S W	2	W	b	*	Trace	72	52				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. Today. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	97	94	0·0	49	37	40	3	o g m	f r	r
CITY (Bunhill Row)	*	*		*	*	*	*		*	*
WESTMINSTER (St. James's Park)				49	37	36	2	o m	o d r. e	o e
CAMDEN SQ. (British Rainfall) ..	95	92	0·0	48	35	35	3	o f	o m r	*
HAMPSTEAD (Reservoir)	*		0·0	46	34	30	3	o f r	o f r	o
S. KENSINGTON (Museum Grounds)	*	92	0·0	50	44	42	2	o f e	o m	o g d
RICHMOND PARK	*	*		*	*	*	*	*	*	

SOUTH KENSINGTON.

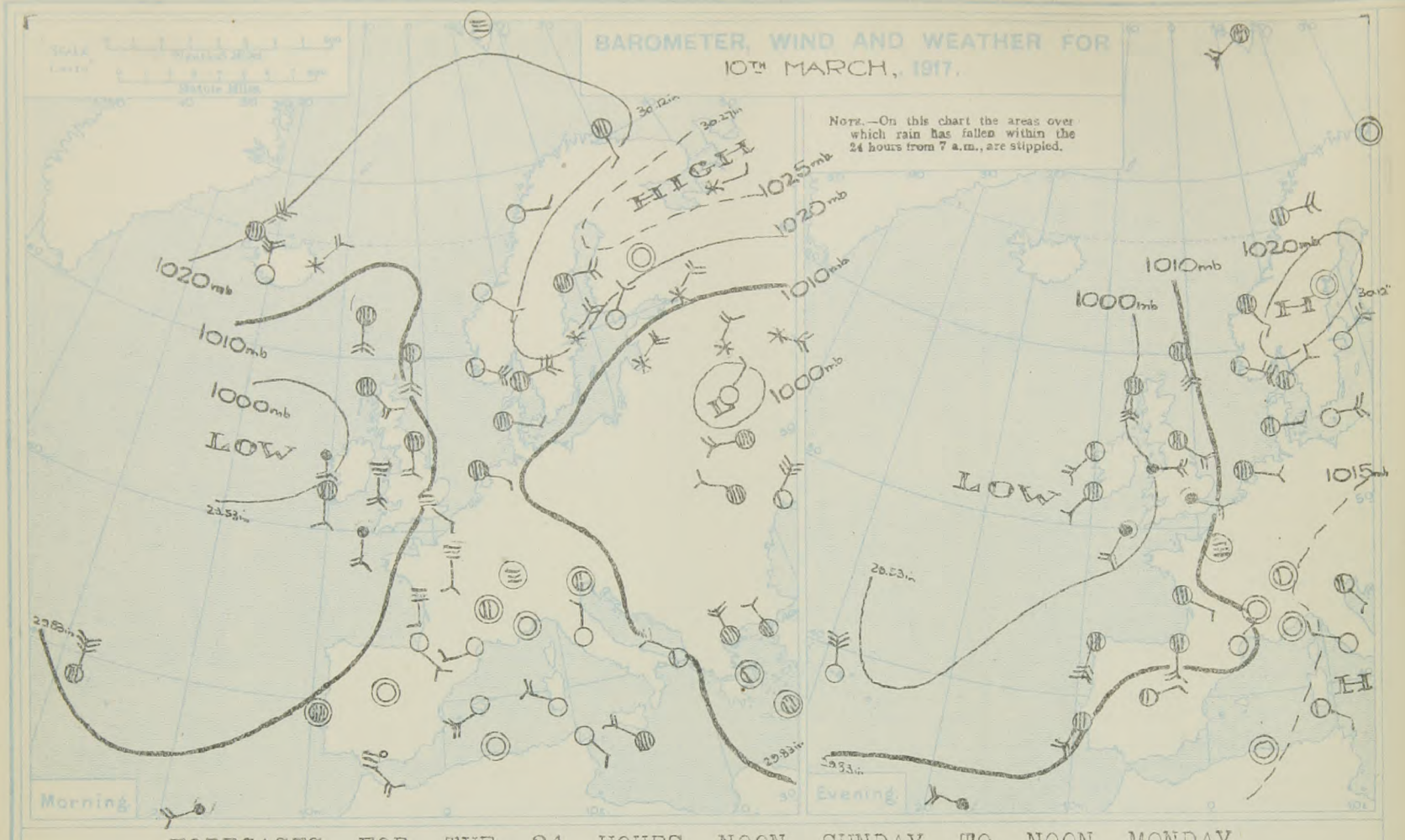
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
192	4·6	15·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 10TH MARCH, 1917.



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY

STORM WARNINGS.

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

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

No Warnings' issued

0 a, b	Variable breezes, light to moderate; dull,
1	some rain, coast mist or fog; moderate
2 a, b	temperature.
3	
4 a, b, c	
5	
6 a, b	
7 a, b	
8 a, b	
9 a, b	
10 a, b	
11 Western Channel and Bay	Easterly to South-Easterly, fresh to strong winds; rough sea; unsettled, some rain and fog moderate temperature.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 11TH MARCH, 1917.

GENERAL INFERENCE.

Conditions remain of an unsettled type.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky 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 MARCH.

HIGH

1020mb

1015mb

1010mb

1005mb

1000mb

Barometer falling

995 mb

Barometer rising

Barometer falling slightly

HIGH

1005mb

1010mb

1015mb

HIGH

1015mb

1010mb

L

Issue No. 20,198 — DAILY WEATHER REPORT. — Sunday, 11th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1029·6	19	–	0	0	1025·2	-1	18	+13	SE	1	s	–	*	5
	Gorki	1006·7	16	E	9	0	996·7	–	19	+7	NE	1	o	–	*	12
	Velieki Luki ...	1006·7	18	NE	3	s	1000·4	*	18	+6	NNE	3	s	T	*	12
	Hangö	1017·2	19	ENE	2	b	1014·3	-8	5	-31	NNE	2	b	–	*	3
	Riga	1008·0	21	ENE	4	s	1006·3	-1	18	+8	NE	4	s	3	*	10
	Petrograd ...	1018·1	18	E	4	b	1011·8	-3	14	-7	NE	4	s	–	25	12
	Moscow	1011·8	18	ENE	4	s	1007·0	-1	19	+3	ESE	4	s	2	*	16
	Kiev	996·8	30	W	4	o	1003·8	+3	18	-14	W	3	o	12	*	18
	Kharkov ...	999·1	36	S	2	o	1003·8	+4	27	0	WSW	2	o	?	*	27
	Kishinev ...	1003·1	?	–	0	c	1007·7	+3	28	-8	NW	2	o	–	*	28
	Elisabetgrad ...	1000·3	18	WSW	4	o	1005·7	+3	28	-9	W	4	o	–	*	28
	Nicolaiev ...	1003·1	36	–	0	c	1007·0	*	28	-9	–	0	c	–	*	27
	Odessa	1003·8	36	WNW	2	bc	1008·0	+4	30	-6	NNE	2	b	–	*	28
	Tarkhankout...	1002·1	45	–	0	b	1006·1	*	36	-10	NNE	T	b	–	*	34
	Soukhoum ...						1002·3	-2	57	0	NE	1	o	–	*	?
MEDITERRANEAN.	Venice	1009·3	45	–	0	b	1013·5	*	39	-4	–	0	bc	–	50	39
	Pesaro	1008·6	48	WSW	4	b	1013·4	*	39	-4	–	0	b	Trace	50	34
	Rome	1010·2	50	NW	1	b	1011·9	*	43	-3	N	1	b	–	57	39
	Viesti	1008·6	48	NW	4	b	1011·4	*	46	-2	NW	1	c	–	54	46
	Brindisi	1007·3	50	NW	4	bc	1010·3	*	50	-2	NW	3	b	–	54	46
	Cagliari	1014·5	54	NW	6	b	1015·3	*	54	+2	NW	3	b	–	61	48
	Palermo						1014·2	*	55	+3	SSE	1	b	–	59	50
	Tripoli						1017·6	*	52	-18	–	0	b	–	63	46
	Algiers	1020·7	55	–	0	b	1016·0	+1	55	^	–	0	b	–	64	?
SWEDEN.	Hernösand ...	1024·6	19	NE	2	o	1022·6	*	14	-7	E	4	o	*	*	*
	Stockholm ...	1017·2	21	E	4	s	1022·7	*	18	-1	NNE	4	s	*	*	*
	Wisby	1010·0	25	ENE	5	o	1011·8	*	23	+2	NE	4	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1020·7	27	-7	NE	6	o
Reykjavik	1014·6	28	-8	N	5	b
Vestmanna	1011·0	30	-4	N	1	b
Seydisfjord	1011·9	28	-2	NE	2	s
Thorshavn	1004·6	35	+4	S	4	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	Trace	1	39	23	o. bs. o	–	0·0
	Banff	–	Trace	36	29	obs	o	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Engd. N.E.	Harrogate	1	2	34	29	os	ofr	0·0
	Skegness							
Engd. N.W.	Morecambe	2	2	41	30	or	or	0·0
	Southport							
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	Trace	T	45	28	orm	or	0·0
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	46	28	r.o.c	c.o	0·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	1	Trace	39	28	of	ofp	0·0
	Walton-on-Naze							
	Southend-on-Sea	1	1	44	24	of	ofr	0·0
England, S.E.	Margate	1	Trace	45	32	o	ode	0·0
	Ramsgate							
	Hastings	1	1	43	36	fd	df	0·0
	Eastbourne	1	2	43	37	om	om	0·0
	Seaford	*	*					
	Brighton							
	Worthing	1	3	42	36	fe	r	0·0
	Littlehampton	Trace	3	46	30	edr	dr	0·0
	Bognor	*	*					
	Bournemouth	2	6	43	33	or	or	0·0
England. S.W.	Weymouth...	*	*					
	Torquay							
	Paignton	*	*					
	Penzance	8	6	46	30	or	c.or.	0·0
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

11th and 12th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.20	12.3	5.47
	6.18	12.3	5.48
Greenwich	6.26	12.10	5.55
	6.24	12.10	5.56
Wick	6.44	12.22	6.1
	6.41	12.22	6.3
Valencia	7.8	12.51	6.35
	7.5	12.51	6.37

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

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

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

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‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 71

Monday. 12th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING. 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 ...	1003·5	34	SE	7	osq	1002·9	0	36	0	E	6	—	oq	5	3	36	34	smq	ospq.	oqr	*
	Deerness (Orkney)	1001·0	34	ESE	4	ops	1000·3	*	39	+3	ENE	3	—	o	4	?	39	34	orps	ops	o	0·0
	Stornoway ...	998·3	43	ESE	2	c	1000·3	0	38	-3	SE	2	—	c	2	1	46	37	c.bc	bo.c	oc	3·6
	Castlebay(Barraisd.)	998·9	43	SSE	3	r	999·5	0	42	+1	S	4	—	o	5	2	43	41	omco	or	ro.cpm	0·1
	Glasgow ...	999·9	39	W	1	bx	1002·3	+1	28	-4	SE	1	—	bx	*	2	43	26	osc,bc	bc.bz	bzx	6·1
	Eskdalemuir ...	1000·8	32	NW	2	b	1002·6	0	22	-10	NW	1	SW	bx	*	1	39	20	o.so.rc	bc.r.br	b.bx	8·2
	Malin Head ...	999·0	44	S	1	cmp	998·6	0	40	+1	SW	2	SW	cm	2	2	48	37	cmp	cmp	cmp	3·9
	Blacksod Point	997·3	44	SE	2	bc	999·0	?	41	0	WNW	3	—	oq	3	5	48	41	bcp	bc	cq.ogr	*
	Valencia ...	998·8	47	S	3	ope	1000·8	+1	43	-1	NE	1	SW	o	3	12	53	43	c.	cop	r.cr	5·3
	Roche's Point	999·6	43	SE	2	o	1001·9	*	42	+2	SW	1	—	o	3	0·4	47	40	fe.sm	sm.bc.o	co	*
	Birr Castle ...	998·5	46	SSE	1	c	1001·1	*	36	+3	S	1	S	c	*	0·2	53	33	c	cp	c	7·4
	Donaghadee ...	999·8	42	SW	2	sm	1001·4	+2	37	-2	SW	2	—	ogm	1	0·1	44	34	bc	bc	bc.ogm	*
	Liverpool (Bidston)	1000·9	39	WSW	1	c	1001·0	+1	35	-3	WSW	1	—	bm	1	—	47	34	o.	oc.	c.bmr	0·0
	Holyhead ...	999·3	41	NE	2	bc	1000·7‡	0	37	-3	NNE	3	—	cf	2	Trace	44	35	o	o.c.bc	bx.bf	0·2
	Pembroke(St.Ann's)	999·8	43	E	2	o	1001·3	+2	38	-2	N	2	—	bc	2	—	44	36	co	o.co	c.bc	0·0
	Scilly (St. Mary's)	997·6	43	NE	4	smr	1002·2	+1	42	-2	NW	2	N	sm	4	19	45	40	csmr	smr	c.smp.o	0·0
	Falmouth ...	996·4	44	NNW	3	sr	1000·5	+4	42	0	NW	3	—	c	*	12	45	41	a or	r.sr.o	2ro	0·0
	Jersey (St. Aubin)	997·2	50	SE	3	b	998·6	*	44	-1	W	3	—	oe	2	1	54	44	op.or	bo.	bo	3·3
	Portland Bill ...	997·9	44	ENE	3	sm	996·6	+1	42	0	NNW	2	o	sq	3	8	45	41	or	or	smf	*
	Dungeness ...	998·3	46	NNE	2	c	997·1	0	42	-1	—	0	—	r	1	6	46	40	co	cp	p.bmr	*
	Dover	999·8	48	—	0	r	997·4	0	42	-1	—	0	—	r	2	6	51	39	o	or	smrf	0·0
	Wick	1000·6	36	ESE	4	o	1000·9	0	32	-4	NW	2	—	r	4	2	36	32	smr	smr.pq	smpd	*
	Nairn	999·8	35	—	0	c	1001·4	*	26	-8	—	0	—	bc	1	2	39	26	d.rsc	c.bc.c	c.bcx	0·3
	Aberdeen	997·6	35	NW	4	b	1001·2	+1	30	-4	WNW	1	—	b	3	9	35	29	orsq	oscb	bzx	0·0
	Leith	999·4	37	SW	1	b	1001·2	0	29	-5	SW	1	SW	b	2	5	40	28	rsc.bc	bc.b	b.bxz.b	*
	Tynemouth ...	999·4	37	NW	2	bc	1001·3	0	31	-9	—	0	—	bm	4	—	44	30	cmq	bcm	bm	*
	Spurn Head ...	1000·4	42	—	0	o	1000·9	0	38	-3	NE	2	—	b	4	—	45	34	c	co	o	0·0
	Yarmouth ...	999·9	35	S	1	r	997·6	0	38	-5	NNE	4	—	smr	3	9	49	37	com	omr	smp	0·0
	Clacton-on-Sea	999·6	44	E	1	r	998·0	+2	42	+2	NE	2	NE	r	2	14	46	39	cpo	ogm.dr	ogmr	0·0
	Nottingham ...	1000·5	43	W	1	sm	1000·7	*	36	-5	NNE	1	—	o	*	1	45	36	oc	c.sm	or	0·4
	Benson (Oxon.) ...	999·3	44	N	1	o	997·0	+1	40	-3	NNE	4	—	smr	*	10	46	40	or	or	or	*
	Sth Farnborough	998·5	47	—	0	r	996·7	+1	43	-1	NNE	2	—	odm	*	4	48	42	or	rm.	rf.dm	0·0
	London (Kew Obsy.)	999·2	48	NNE	2	ofr	997·7	+1	44	-2	NE	3	—	omd	*	11	52	43	o.sm.smr	smr.ofr	orf.smr	0·0
NORTHERN EUROPE.	Spitsbergen ...	1025·7	-17	S	1	o	1017·5	-2	-8	-31	SE	3	*	S	*	*	23	-35				
	Vardö	1016·2	18	N	1	s	1021·7	+1	12	-15	N	3	—	o	4	*	27	12				
	Bodö	1018·6	26	E	1	b	1021·0	+1	21	-2	E	1	—	b	1	—	28	18				
	Christiansund ...	1012·0	34	E	1	b	1009·3	0	30	+3	SE	3	—	b	3	—	34	25				
	Skudesnaes ...	1006·4	28	SE	4	s	1005·9	0	32	+7	SE	2	—	o	2	?	32	25				
	Færder(K'tania Fjord)	1015·9	25	ESE	3	o	1013·2	-1	23	+4	ENE	5	—	m	2	—	25	19				
	The Scaw (Skagen)	1016·2	27	ESE	1	o	1009·2	-1	27	+4	ENE	5	—	s	5	?	28	23				
	Blaavands Huk	1005·5	30	SE	7	s	1001·4	-1	30	+9	SSE	3	—	o	3	Trace	32	18				
	Copenhagen ...	1015·5	27	SE	3	o	1010·1	-4	28	+7	SSE	5	—	o	*	—	28	17				
	Bornholm ...	1016·8	26	SE	3	c	1013·2	-2	25	+2	SSE	6	—	o	1	—	27	21				
FRANCE, &c.	The Helder ...	1001·3	43	SE	1	c	998·1	0	36	+2	SSW	1	—	o	1	4	48	34				
	C. Gris Nez ...	999·1	51	SSE	3	b	997·1	0	45	-3	S	2	*	o	2	5	50	41				
	La Hève							*					*									
	Brest (St. Mathieu)	995·3	48	W	3	c	1003·0	+3	46	0	WNW	3	*	o	1	2	52	46				
	Rochefort(Ile d'Aix)	1001·2	50	WSW	3	o	1005·0	+2	49	-1	WSW	5	*	o	*	3	57	46				
	Biarritz	1002·4	57	N	2	c	1008·8	+3	50	-10	SW	4	*	o	3	2	68	48				
	Paris	1006·7	57	SSE	2	b	1000·7	+2	48	+5	S	2		o	*	10	64	45				
	Belfort	1006·4	54	E	2	c	1007·3	*	46	+9	WSW	4	*	r	*	Trace	64	37				
	Lyons							*					*		*							
	Nice	1013·7	49	—	0	b	1008·3	0	49	+4	E	2	*	r	4	—	61	41				
	Perpignan ...	1004·8	54	SE	2	o	1005·1	+2	50	0	WNW	2	—	o	*	—	61	46				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1003·5	50	SW	1	r	1011·5	+4	52	+2	W	6	—	r	4	15	55	48				
	Madrid	1009·4	54	W	4	c	1014·2	+3	43	-3	WSW	2	—	b	*	2	55	41				
	Lisbon																					
	Azores (Horta) ...	1016·0	*	SW	7	b	1009·1	-3	59		S	9	*	r	7	—	61	57				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1009·4	+2	54	-1	—	0	W	o	6	Trace	63	45				
	Alexandria ...														*							
	Cairo (Helwan) ...																					

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	94	98	0·0	52	42	41	15	op	op.	opm
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	98	94	0·0	51	42	42	11	odr	orm	me
CAMDEN SQ. (British Rainfall) ..	—	96	0·0	50	42	40	10	—	—	*
HAMPSTEAD (Reservoir)	*	100	0·0	48	39	35	10	orm	om	orm
S. KENSINGTON (Museum Grounds)	*	96	0·0	50	42	42	11	orm	or.o	or.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
192	4·6	15·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

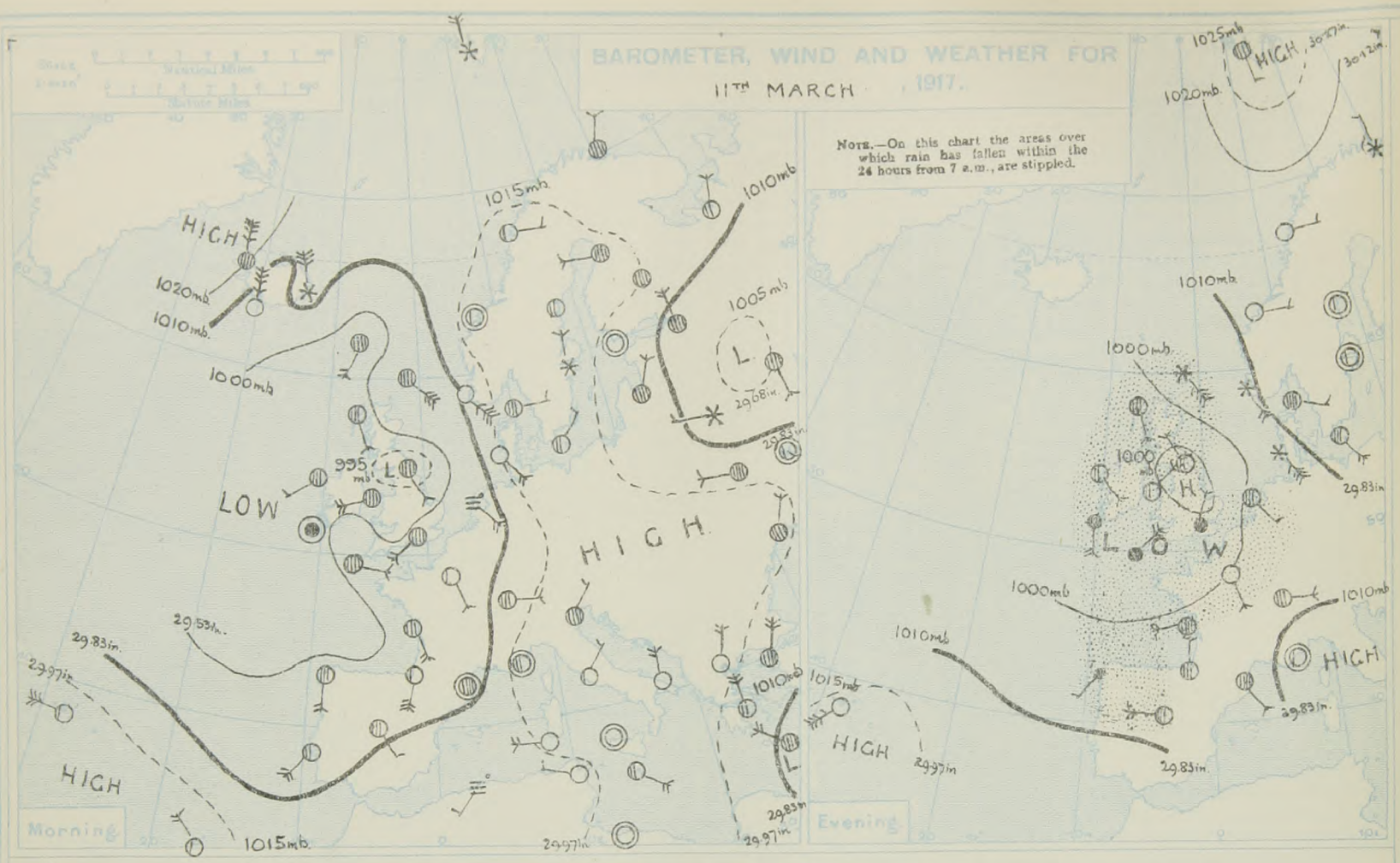
RAINFALL

Equivalents of Millimetres in Inches.

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

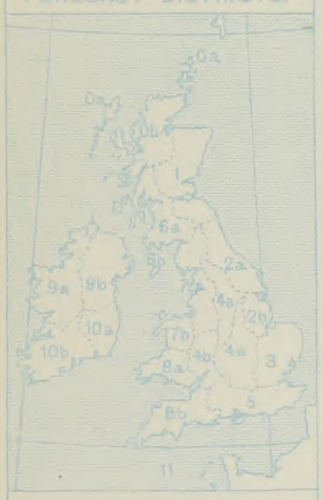
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 11TH MARCH 1917.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0	a, b	
1		
2	a, b	
3		
4	a, b, c	
5		Calms and light variable breezes; fair intervals locally, but generally dull, some rain or sleet and mist; rather colder.
6	a, b	
7	a, b	
8	a, b	
9	a, b	
10	a, b	
Western Channel and Bay.	11	North-Westerly to Westerly breezes, moderate to strong; sea rather rough; cloudy to dull, some rain and fog; moderate temperature.

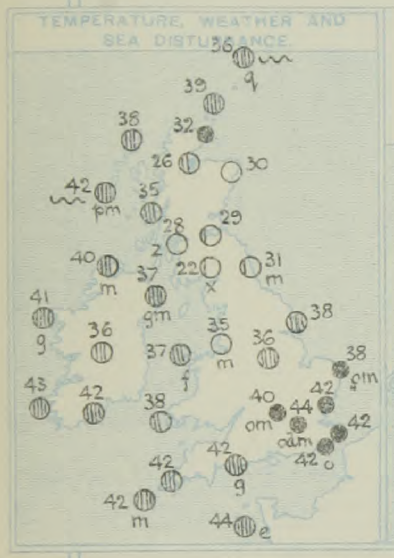
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF MONDAY, 12TH MARCH, 1917.

GENERAL INFERENCE.

There are no definite indications of an immediate change of importance 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 ¾ clouded.
◍ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊤ₛ thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ~~.

Normal Temperature of the Sea.

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

Scale of Tints for MARCH.

HIGH

1020mb.

30·12in.

1015mb.

1010mb.

1005mb.

1000mb.

LOW

Barometer scarcely changing

Barometer falling

29·53in.

29·68in.

29·83in.

29·97in.

32°

40°

50°

LOW

HIGH

1010mb.

1015mb.

SCALE 1 : 2×10⁶
Nautical Miles
Statute Miles

Issue No. 20.199

DAILY WEATHER REPORT.

Monday 12th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1017·3	10	SE	1	0	1012·2	+3	16	−2	NNE	2	bc	−	*	-24
	Gorki	1003·9	16	N	1	b	1007·5	+1	14	−5	W	1	s	14	*	18
	Velieki Luki ...	1002·3	19	SW	1	0	1007·8	*	10	−8	SW	3	b	7	*	9
	Hangö	1013·3	19	−	0	bc	1014·9	+1	3	+16	−	0	b	−	*	−13
	Riga	1010·0	12	ENE	1	b	1013·1	+1	18	0	NNE	1	0	1	*	9
	Petrograd ...	1009·0	16	NE	4	0	1008·4	+1	14	0	N	3	0	1	19	14
	Moscow	1003·7	23	ESE	2	0	1005·0	+1	19	0	S	2	0	2	*	19
	Kiev	1011·8	19	E	2	0	1013·5	+1	19	+1	W	2	0	−	*	18
	Kharkov ...	1010·9	21	W	2	b	1013·3	+2	10	−17	−	0	b	−	*	10
	Kishinev ...														*	
	Elisabetgrad ...														*	
	Nicolaiev ...	1012·8	30	−	0	b	1015·7	*	23	−5	NNE	2	b	−	*	23
	Odessa	1013·6	34	NNE	2	0	1016·4	+3	31	+1	NNE	2	0	−	*	28
	Tarkhankout...							*							*	
	Soukhoum ...	1003·5	37	−	0	tlr	1001·0	−3	52	−5	−	0	3	3	*	*
Mediterranean.	Venice	1017·1	45	−	0	bc	1017·1	*	39	0	0	0	0	−	48	39
	Pesarò	1017·5	45	SE	1	b	1016·7	*	37	−2	S	1	b	−	50	34
	Rome	1016·1	52	−	0	b	1017·8	*	45	+2	NE	1	b	−	63	43
	Viesti	1016·7	45	N	2	b	1018·7	*	50	+4	SE	1	b	−	54	45
	Brindisi	1015·5	52	NW	5	bc	1016·3	*	50	0	N	3	b	−	54	46
	Cagliari	1015·1	61	SE	3	b	1015·8	*	57	+3	WNW	3	8	−	63	48
	Palermo	1015·7	55	SSW	1	b	1017·0	*	54	−1	−	0	b	−	64	41
	Tripoli	.	.	.	.	.	1015·7	*	59	+7	−	0	b	1	64	48
	Algiers	1013·9	61	−	0	b	1012·3	0	57	+2	SW	1	m	−	72	54
Sweden.	Hernösand ...	1020·7	9	−	0	b	1020·3	*	0	−14	−	0	bc	*	*	*
	Stockholm ...	1017·3	14	NE	4	b	1019·0	*	10	−8	N	2	s	*	*	*
	Wisby	1013·2	25	NE	4	c	1016·0	*	21	−2	N	2	c	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1020·4	41	+14	N	7	0
Reykjavik	1012·2	34	+6	NNE	8	b
Vestmanna	1008·4	30	0	N	8	b
Seydisfjord	1013·5	37	+12	NNW	6	s
Thorshavn	996·5	39	+4	SSW	3	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	2	Trace	46	31	o.b	bc	4·8
	Banff	2	3	36	34	ops	ordc	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	21	−	42	34	o.c	c.bc.b	2·0
	Skegness	7	−	42	36	o.bc	om	0·4
Eng. N.W.	Morecambe							
	Southport	13	−	43	37	o.c	c.bc	2·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	12	−	44	38	or	c.o	0·1
	Colwyn Bay...	*	*	46	39	bc	bc	3·3
	Llandudno	*	*	46	39	o	o	5·2
	Aberystwyth	*	*	45	39	or.o	c.c.o	3·4
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	2	Trace	45	35	om.bc	omp	1·0
	Walton-on-Naze							
	Southend-on-Sea	1	2	52	36	or	or	0·0
England, S.E.	Margate							
	Ramsgate							
	Hastings	2	3	49	43	or.co.	or.	0·0
	Eastbourne	2	2	47	40	m	m	0·2
	Seaford	*	*					
	Brighton							
	Worthing	1	3	47	40	or	or	0·0
	Littlehampton	1	5	47	39	o	o	0·0
	Bognor	*	*					
	Bournemouth	1	3	46	43	or	or.o	0·0
England. S.W.	Plymouth	*	*	48	43	or	o	0·0
	Weymouth...	*	*					
	Torquay	3	10	48	42	or	or	0·0
	Paignton	*	*					
	Penzance							
	Newquay	1	9	45	40	r	r	0·0
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

12-13 March 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6·18	12·3	5·48
	6·16	12·3	5·50
Greenwich	6·24	12·10	5·56
	6·22	12·10	5·58
Wick	6·41	12·22	6·3
	6·38	12·22	6·5
Valencia	7·5	12·51	6·37
	7·3	12·51	6·39

NOTES ON YESTERDAY'S WEATHER.

Temperature was at a moderate level in most districts. Rain was general. sleet or snow in the north. Many places had ne sunshine, but Eskdalemuir registered over eight hours.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 72 Tuesday. 13th March

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	1004·4	37	ESE	4	o	1004·4	0	36	0	SE	3	–	ornd	3	2	37	35	opq	o	ornd	*
	Deerness (Orkney)	1001·7	39	ENE	4	r	1001·7	*	38	-1	S	3	–	o	3	2	41	38	o.	or	ro	0·0
	Stornoway ...	999·8	43	E	3	o	1000·8	0	36	-2	W	1	–	b	1	2	43	35	c.og	o dup.	c. bp	0·0
	Castlebay (Barra Isd.)	1000·4	42	WNW	1	o	1003·5	+2	43	+1	W	3	W	c	3	3	43	38	opm	opm	c. bc	0·1
	Glasgow ...	1002·6	38	WSW	1	om	1004·5	+2	36	+7	WNW	1	–	rm	*	2	39	27	m.	om	om. pom	0·0
	Eskdalemuir ...	1002·9	37	W	1	b	1006·1	+2	33	+11	SW	2	–	ome	*	1	46	21	bm. b	b. bv. b	bo. do	10·0
	Malin Head ...	1000·9	43	WNW	3	bc	1005·3	+2	41	+1	NNW	3	W	bc	4	1	45	39	bm	bcp	bcp	1·7
	Blacksod Point	1004·1	42	WNW	3	bc	1005·8	?	38	-3	SSW	3	S	cg	3	–	46	37	bc	bc	bc	*
	Valencia ...	1006·5	46	WNW	2	bc	1006·7	-2	36	-7	–	o	–	c	3	0·2	48	33	op. bc. b	bv	b. de	6·1
	Roche's Point	1005·1	45	NW	3	c	1008·3	*	32	-10	N	1	–	b	3	2	47	32	ocpd	op. gc	c. bx	*
	Birr Castle ...	1004·8	40	SW	1	c	1007·7	*	29	-7	W	1	–	m	*	1	46	29	csp	ocp	c. cx	1·8
	Donaghadee ...	1002·2	40	SSW	2	ogmr	1005·8	+1	34	-3	W	3	–	bcmx	2	1	42	34	ogm	ogm	bc mx	*
	Liverpool (Bidston)	1004·4	38	WSW	1	b	1007·1	+1	37	+2	SW	2	–	b	2	–	41	35	bcm	bm	b	4·3
	Holyhead ...	1003·6	41	SSW	4	om	1007·3	+2	38	+1	WSW	3	–	b	2	1	43	36	c. bc. b	b. bc. co	odm. bx	8·9
	Pembroke (St. Ann's)	1005·6	41	SW	2	c	1008·7	+1	38	0	E	2	–	bx	2	1	45	37	bc. co	o. c. bc	cp. cd	2·7
	Scilly (St. Mary's)	1006·6	46	SW	1	c	1009·0	0	42	0	WNW	2	–	b	3	–	50	41	c. bc	c. bc. c	c. bc	4·7
	Falmouth ...	1006·9	44	WNW	1	bz	1008·3	0	39	-3	WSW	1	–	b	*	5	50	39	oc	c. bc. b	b. r. b	4·1
	Jersey (St. Aubin)	1005·4	46	W	3	c	1011·1	*	42	-2	W	3	W	c	2	–	48	38	ocf	f bc	b wc	0·2
	Portland Bill ...	1004·5	42	W	1	cm	1009·2	0	41	-1	SE	1	–	or	3	–	44	39	cg	co	bc. co	*
	Dungeness ...	1003·3	42	NE	1	o	1009·8	+3	40	-2	SW	3	SW	c	2	0·2	44	38	r. bco	op z	op z	*
	Dover	1004·5	40	N	1	o	1009·8	+3	39	-3	SW	2	–	m	2	0·4	40	35	o	om	om	0·0
	Wick	1001·6	39	NNE	2	c	1002·5	0	38	+6	SSE	1	–	r	3	1	42	32	op. dcm	cm	bc. omr	*
	Nairn	1000·8	38	ENE	1	cg	1000·6	*	36	+10	—	o	–	cg	1	5	40	25	bc	bc. c	cpr	7·2
	Aberdeen	1001·9	37	–	o	b	1002·6	+1	36	+6	SSW	1	–	o	2	2	43	29	b.	b.	bc. omr	10·1
	Leith	1001·6	39	W	1	b	1003·3	+1	36	+7	W	1	W	c	2	1	42	29	bm. b. bc	bc x. b	bm. orc	*
	Tynemouth ...	1002·2	38	SSW	1	bm	1004·4	+1	37	+6	WNW	1	NW	cm	3	–	40	31	bm	bm	cmd	*
	Spurn Head ...	1004·0	38	ENE	1	bc	1006·4	0	33	-5	WSW	1	–	fx	1	–	41	32	o	bc	b	4·1
	Yarmouth ...	1002·8	37	NNE	2	o	1008·3	+2	33	-5	S	1	–	bc	2	14	48	31	omr	om	om. bc	0·0
	Clacton-on-Sea	1003·4	41	N	2	o	1009·2	+2	34	-8	WSW	2	–	f	1	12	43	33	ogr	og	ogmfx	0·0
	Nottingham ...	1003·8	38	SE	1	b	1007·5	*	32	-4	SW	1	–	fx	*	–	45	32	oc	c. b	b	2·5
	Benson (Oxon.) ...	1004·6	41	N	1	b	1009·3	+1	34	-6	SSW	2	–	c	*	4	42	32	o	bc	bm. bc	*
	Sth Farnborough	1004·2	41	NNW	2	o	1009·0	+1	33	-10	S	2	W	cm	*	1	43	30	d. om	om	ob. cm	0·0
	London (Kew Obsy.)	1004·7	43	–	0	om	1009·7	+2	35	-9	WSW	2	–	f	*	1	44	33	od. r. om	om	bcm. mf	0·0
NORTHERN EUROPE.	Spitsbergen ...	1017·3	-9	–	0	o	1017·5	+1	-13	-5	—	o	*	o	*	*	-2	-17				
	Vardö	1020·2	16	—	0	bc	1004·2	-8	19	+7	W	4	–	s	4	*	16	10				
	Bodö	1022·1	19	E	1	b	1018·4	-5	16	-5	E	2	–	b	1	–	25	14				
	Christiansund ...	1009·6	34	–	0	o	1009·7	0	32	+2	SE	2	–	c	3	–	37	25				
	Skudesnaes ...	1005·3	32	ENE	6	o	1009·7	0	25	-7	ENE	3	–	c	2	–	32	25				
	Færder (X'tania Fjord)	1011·4	25	NE	6	s	1010·1	-1	21	-2	NE	4	–	s	3	?	25	19				
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1000·0	36	W	2	r	1008·8	+4	36	0	SW	2	–	c	1	13	37	34				
	C. Gris Nez ...	1002·0	37	NNE	3	o	1009·7	+1	39	-6	S	2	*	f	2	1	48	37				
	La Hève	1004·7	41	WNW	3	f	1011·4	*	39		W	3	*	o	2	2	46	39				
	Brest. (St. Mathieu)	1007·5	47	SW	1	bc	1010·9	+1	46	0	NNW	3	*	b	3	–	52	45				
	Rochefort (Ile d'Aix)	1007·3	48	NW	2	c	1014·9	+1	46	-1	WSW	3	*	bc	*	–	54	46				
	Biarritz	1012·0	54	W	5	b	1017·5	+1	50	0	SE	3	*	c	3	–	59	48				
	Paris	1004·7	48	SW	2	o	1012·0	+4	43	-8	WNW	1	–	o	*	–	52	43				
	Belfort	1006·6	46	W	4	o	1012·2	*	41	-5	W	4	*	o	*	2	59	40				
	Lyons	1008·4	44	WSW	1	o	1013·5	*	43	-2	WNW	3	*	b	*	8	47	41				
	Nice	1005·5	47	—	0	c	1009·0	+1	45	-4	—	o	*	c	2	14	57	39				
	Perpignan ...	1010·3	54	NW	2	r	1014·7	+3	48	-2	NW	4	NW	b	*	9	61	43				
	Sanguinaire ...	1009·5	53	SW	4	o	1008·8	*	51	-3	NW	5	*	o	6	2	61	45				
SOUTHERN STATIONS.	Corunna	1015·4	56	W	5	bc	1017·2	+2	55	+3	WSW	5	–	r	3	8	55	52				
	Madrid	1016·8	52	W	3	bc	1022·3	+2	46	+3	WSW	2	–	o	*	1	54	45				
	Lisbon																					
	Azores (Horta) ...	1012·7	*	WSW.	7	b.							*									
	Madeira	1026·4	61	W	2	c.	1028·2	0	54	0	W	2	–	o	2	–	61	54				
	Gibraltar	1026·7	56	NW	4	b	1026·4	*	54	+2	NW	3	*	b	3	–	63	51				
	Malta	*	*	*	*	*	1011·4	0	57	-2	NW	6	–	o	5	–	66	55				
	Limassol	*	*	*	*	*	1012·4	+3	57	+3	E	1	–	b	2	–	64	45				
	Alexandria ...	1018·0	59	NW	4	bc	1017·7	0	55	-4	SW	1	NW	bc	1	–	68	54				
	Cairo (Helwan) ...	1017·3	56	N	3	b	1018·1	+1	54	+2	E	1	–	b	*	–	68	46				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.20h

1800 metres	W by S	4 m/s
1500 "	W " S	8 "
1200 "	W	10 "
900 "	W	10 "
600 "	W by S	8 "
300 "	W S W	4 "
Surface	S	2 "

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Min.	Min. on Grass	Rainfall.	Weather: Morning.	Afternoon.	Night
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	91	94	0·0	42	34	29	1	r. o	o.	o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	86	97	0·0	46	34	32	0·3	omr	om	om
CAMDEN SQ. (British Rainfall) ..	88	94	0·0	43	34	29	1	o	o	*
HAMPSTEAD (Reservoir)	*	99	0·0	40	31	24	1	or	o	cx.
S. KENSINGTON (Museum Grounds)	*	91	0·0	45	35	31	1	om	om. o	om
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

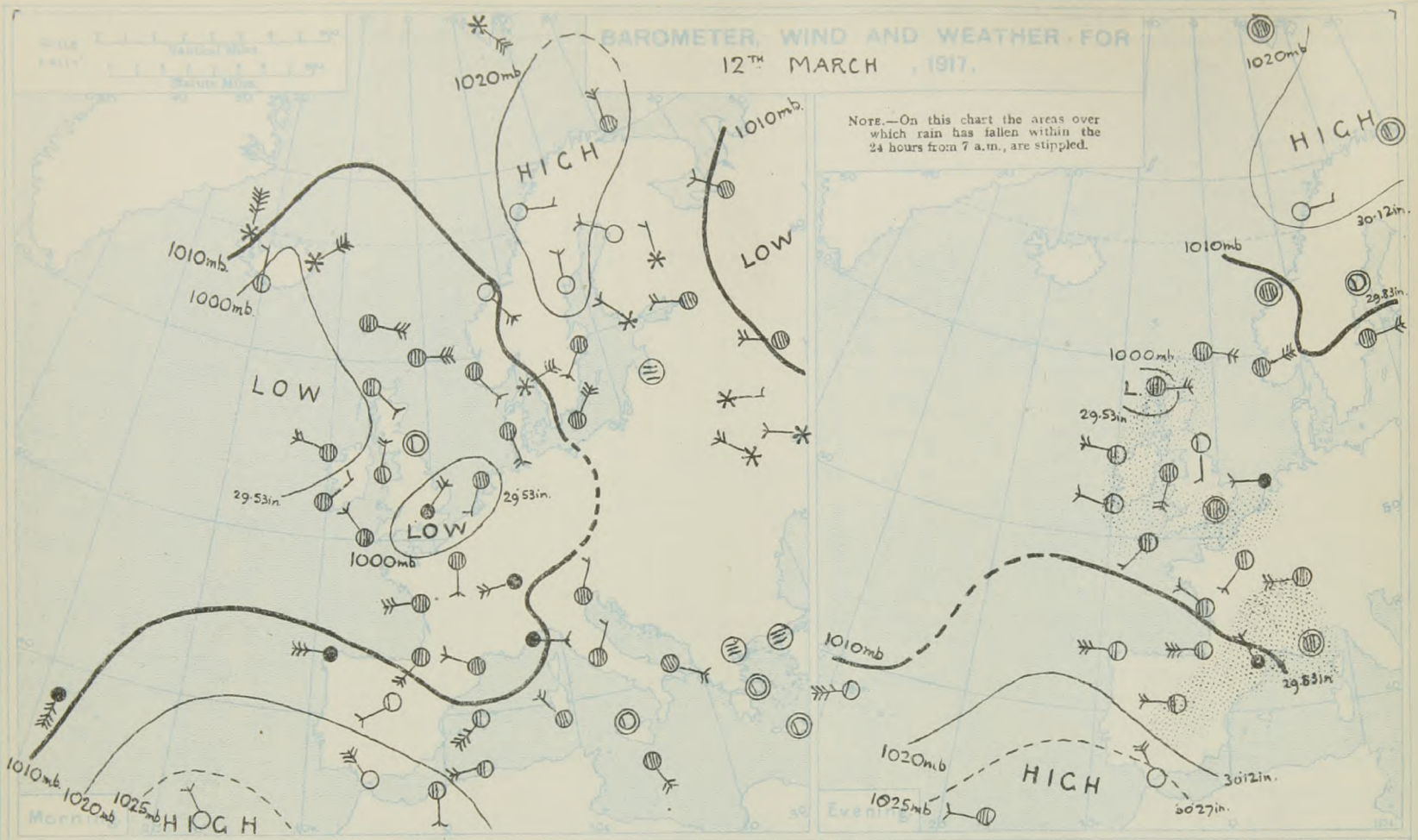
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
124	3·0	8·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 MARCH, 1917.



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 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	Moderate or fresh Southerly winds; fair, some showers; normal temperature.
2 a, b; 3; 4 a, b, c; 5	Moderate Southerly or South-Westerly winds; fair weather; normal temperature.
6 a, b; 7 a, b; 8 a, b	Same as Nos. 0 and 1.
9 a, b; 10 a, b	Moderate to fresh Southerly winds; becoming unsettled; moderate temperature.
Western Channel and Bay 11	Fresh Westerly or South-Westerly winds; rather rough sea; fair at first, less settled later.

FURTHER OUTLOOK.

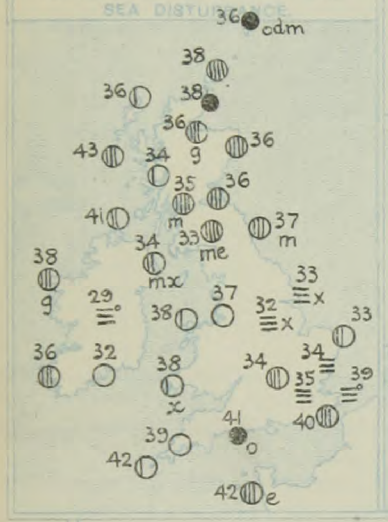
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 13TH MARCH 1917.

GENERAL INFERENCE.

There are indications of a depression on the Atlantic which will affect our western districts during the day.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

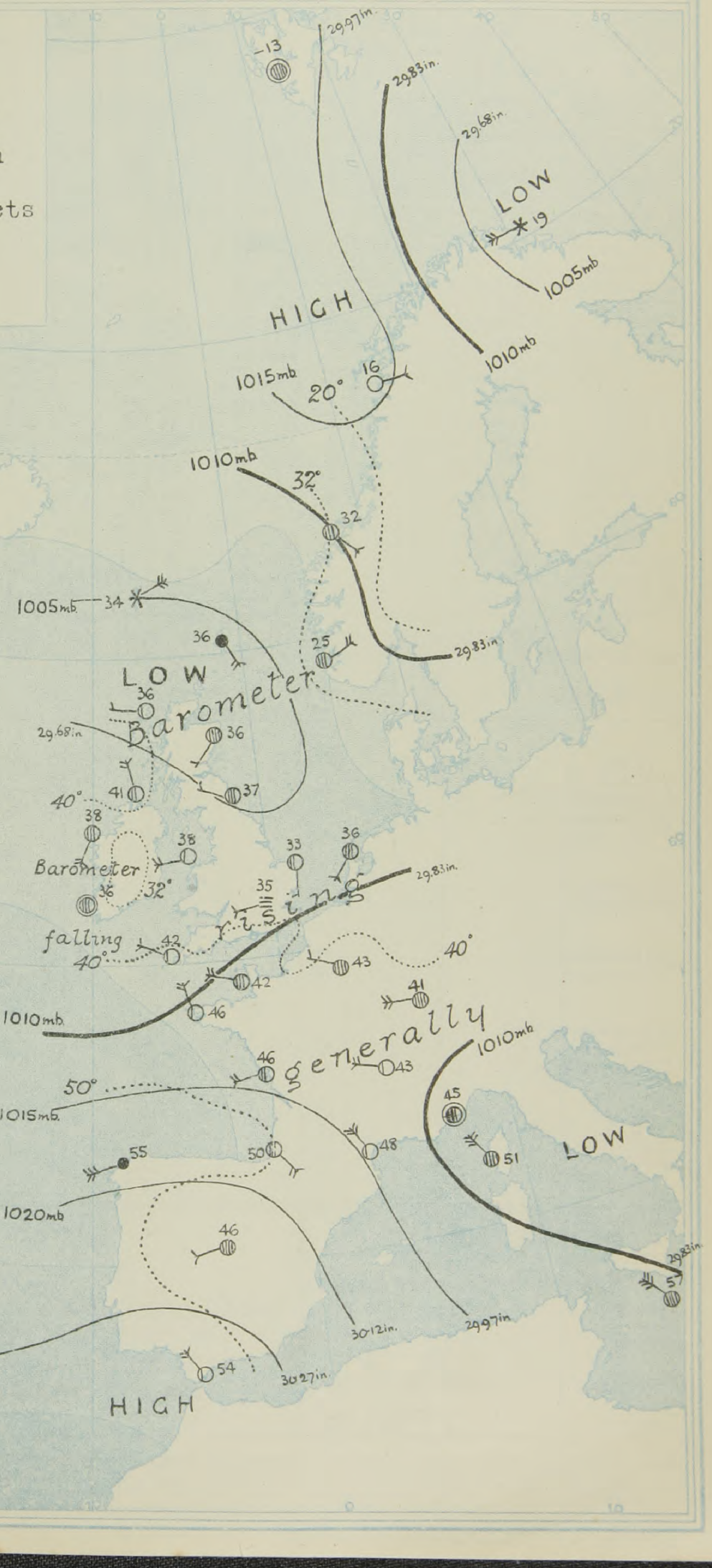
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. 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 : 5 x 10⁶
Nautical Miles 0 1 2 3 4 5 600
Statute Miles 0 1 2 3 4 5 600

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

Scale of Tints for MARCH.

Issue No. 20,200

DAILY WEATHER REPORT.

Tuesday, 13th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	1008·0	3	NNW	2	0	1007·4	+1	7	−9	NNW	2	0	–	*	−2
	Gorki	1011·7	18	S	3	0	1014·3	–	16	+2	–	0	S	–	*	7
	Velieki Luki	1013·0	7	–	0	b	1015·8	*	?		SW	2	b	–	*	0
	Hangö	1016·3	14	NNW	2	c	1017·9	0	7	+4	NNW	2	S	–	*	1
	Riga	1016·3	12	–	0	b	1018·1	+1	3	−15	–	0	f	–	*	1
	Petrograd	1011·5	9	NW	2	b	1013·3	+1	0	−14	WNW	3	0	–	21	−2
	Moscow	1007·9	19	WSW	3	0	1009·9	+3	12	−7	NW	3	0	–	*	12
	Kiev	1015·3	23	NW	2	S	1016·7	+2	18	−1	NW	3	S	–	*	16
	Kharkov	1013·5	23	NW	1	0	1013·9	0	19	+9	WNW	2	S	–	*	19
	Kishinev														*	
	Elisabetgrad	1015·5	25	WNW	2	0									*	
	Nicolaiev	1015·9	32	SW	2	c	1017·3	*	27	+4	–	0	c	–	*	23
	Odessa	1016·8	32	NE	2	0	1818·3		27	−4	NNE	2	bc	–	*	25
	Tarkhankout	1016·7	28	N	4	0	1017·5	*	34		N	3	0	–	*	28
	Soukhoum	1005·7	45	–	0	r	1011·8	+3	39	−13	ENE	2	r	?	*	39
MEDITERRANEAN.	Venice	1015·3	46	–	0	0	1013·1	*	45	+6	–	0	0	Trace	48	39
	Pesaro						1013·8	*	46	+9	–	0	b	–	50	37
	Rome	1016·2	52	S	1	b	1013·4	*	46	+1	–	0	0	–	61	45
	Viesti	1015·9	52	SSE	1	b	1014·5	*	50	0	SSE	1	b	–	55	45
	Brindisi	1017·6	46	NW	3	b	1015·9	*	46	−4	SE	3	0	–	57	46
	Cagliari	1013·8	61	SE	4	c	1011·0	*	57	0	NW	3	c	–	66	50
	Palermo	1016·6	54	–	0	b	1011·7	*	52	−2	–	0	b	–	66	44
	Tripoli						1009·3	*	63	+4	SSE	1	b	–	73	54
	Algiers	1012·8	61	WSW	6	b	1016·7	+1	55	−2	WSW	4	bc	1	72	54
SWEDEN.	Hernösand	1016·8	27	–	0	b	1022·3	*	5	+5	N	2	b	*	*	*
	Stockholm	1018·4	19	–	0	b	1018·3	*	18	+8	SSW	2	0	*	*	*
	Wisby	1016·4	21	–	0	b	1016·3	*	19	−2	SE	2	b	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1010·6	28		N	9	s
Reykjavik	1001·2	36		N	7	c
Vestmanna	999·8	34		N	1	bc
Seydisfjord	1006·0	36		NE	8	s
Thorshavn	1005·0	37		SE	5	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	–	–	43	32	bc o	–	0·2
	Banff	–	–	41	32	b	b	9·8
	Montrose							
	Carnoustie	*	*					
	St. Andrews	–	–	47	25	bx	bx	6·8
Eng. N.E.	Harrogate	–	–	49	29	bc. bx	b	3·3
	Skegness	Trace	–	40	36	o	c. b	0·2
Eng. N.W.	Morecambe	–	–	46	30	–	–	9·0
	Southport	–	–	43	29	bcx. bx	b	7·8
Midlands.	Leamington Spa							
	Malvern	3	–	47	36	bc	bc	3·0
	Ross-on-Wye	4	–	50	37	bc	bc. b	4·0
Wales.	Rhyl	Trace	–	47	28	c. bc	bc. c	7·2
	Colwyn Bay	*	*	45	30	bc	bc	8·6
	Llandudno	*	*	46	33	b	b	8·6
	Aberystwyth	*	*	43	34	o. c	c. bc	5·7
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England, E.	Lowestoft	15	3	39	37	r	o	0·0
	Felixstowe	15	7	41	39	or	om	0·0
	Walton-on-Naze							
	Southend-on-Sea	14	1	42	40	or	o	0·3
England, S.E.	Margate	11	4	39	38	or	o	0·0
	Ramsgate							
	Hastings	2	1	47	42	or. o	o	0·0
	Eastbourne	2	–	46	41	o. bc	o. c	
	Seaford	*	*	48	42	or	r o	0·1
	Brighton							
	Worthing	Trace	Trace	46	42	o	o	0·1
	Littlehampton	Trace	–	46	40	fe. b	c. o	0·3
	Bognor	*	*					
	Bournemouth	2	–	46	41	o	o. c	0·3
England, S.W.	Weymouth	*	*	47	41	or. c	c. bcm	0·2
	Torquay	14	–	52	42	o	o. c. bc. b	3·1
	Paignton	*	*					
	Penzance	2	–	49	43	c. bc	b	3·3
	Newquay	Trace	–	47	41	c. b	c. b	2·3
	Bude	3	–	51	40	bc	bc	5·8
	Ilfracombe	–	–	46	39	bc	bc	5·9
	Weston-s-Mare	15	–	47	40	or. c. bc	b. bc	2·5

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

13th and 14th March, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	6.16	12.3	5.50
	6.14	12.3	5.52
Greenwich	6.22	12.10	5.58
	6.19	12.10	5.59
Wick	6.38	12.22	6.5
	6.35	12.22	6.8
Valencia	7.3	12.31	6.39
	7.0	12.51	6.41

NOTES ON YESTERDAY'S WEATHER.

9·8 hours of bright sunshine were measured at Banff, and about 9 hours at some western stations, but in the east the day was dull. There was little precipitation except in the eastern counties. Temperature was moderate generally.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 73

Wednesday 14th March.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	THIS MORNING: 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 ...	1002·8	38	SSE	5	omr	1005·0	+1	38	+2	E	3	—	bc	3	9	39	36	omp	omr	oc	*
	Deerness (Orkney)	1001·7	38	W	2	0	1003·7	*	34	-1	NW	2	—	0	2	3	40	36	om	omr	0	0·0
	Stornoway ...	1003·2	43	W	4	bc	1004·3	+1	37	+1	W	3	—	0	3	1	45	35	bcpq	bcp	bc.o	5·5
	Castlebay (Barra Isd.)	1005·7	44	WSW	3	b	1005·8	0	39	-4	—	0	—	b	1	0·2	47	36	c.bc	bc.b	b	?
	Glasgow ...	1005·4	42	W	1	bcz	1007·2	+2	28	-7	ESE	1	—	m	*	-	46	27	c.be	bc.b	bx.bmx	7·4
	Eskdalemuir ...	1006·8	36	—	0	br	1007·2	+2	24	-9	—	0	-	bvx	*	-	45	22	ome.od	cr.bcr	bvx	6·3
	Malin Head ...	1005·2	42	E	3	bc	1006·0	+1	37	-4	SSW	2	SW	b	2	-	50	36	bc	bc	b	9·7
	Blacksod Point	1003·9	45	—	0	ba	1006·4	0	36	-2	SE	1	—	bc	1	-	47	35	be	be	ba	*
	Valencia ...	1002·0	43	E	3	0	1005·0	+2	42	+6	NE	1	-	0	2	1	48	36	oc	c.od.	od	0·4
	Roche's Point	1003·4	43	ESE	3	r	1005·8	*	40	+8	—	0	—	0	2	2	46	32	b.bc.c	c.or	or	*
	Birr Castle ...	1004·1	40	BSE	1	bc	1005·8	*	32	+3	—	0	-	m	*	-	49	28	bc	bc	cfx	6·1
	Donaghadee ...	1005·8	42	SE	3	bcm	1006·1	+2	38	+4	NE	2	-	bcm	1	0·1	48	34	bcm.	bcm	bm.bmz	*
	Liverpool (Bidston)	1006·1	40	NNW	1	b	1004·7	+1	37	0	NE	1	-	0	1	-	45	36	b	b	cmo	8·2
	Holyhead ...	1005·3	42	ENE	4	cg	1004·7	+2	39	+1	E	5	-	of	4	0·1	50	36	b.bc.b	b.bc.c	bc.opf	8·9
	Pembroke (St. Ann's)	1004·1	43	E	2	or	1003·8	+4	41	+3	NNW	3	N	c	2	3	46	35	bf	bc.o	or.op.o	4·2
	Scilly (St. Mary's)	1001·3	48	W	5	cmp	1004·9	+3	45	+3	NW	4	NW	c	5	5	50	42	bc.co	omp.	cq.p.c	4·9
	Falmouth ...	1001·7	46	SSW	4	r	1003·3	+4	44	+5	NNW	6	—	c	*	2	49	39	bm.bc	co.ro	bcq	1·4
	Jersey (St. Aubin)	1006·8	48	SSW	3	op	1002·3	*	45	+3	WSW	5	—	oqp	3	6	50	41	c.pc.b	bc.op.o	cp.oqp	2·3
	Portland Bill ...	1006·2	42	SE	2	or	999·6	0	43	+2	WNW	3	NW	0	4	6	45	40	orm	0	ormc	*
	Dungeness ...	1008·2	42	SW	3	bc	1000·6	-1	42	+2	ESE	2	—	o	1	4	45	39	cm.bc	c.	cr.fm	*
	Dover	1009·3	42	SSW	1	c	1000·8	-1	42	+3	SE	1	-	f	1	3	47	38	mc.bc.c	c.bc.c	cmf	2·1
	Wick	1001·9	40	WSW	1	c	1004·3	+2	39	+1	NW	2	-	o	3	7	41	35	omr	omp.c	cpd.om	*
	Nairn	1003·6	41	W	1	bc	1005·1	*	34	-2	—	0	—	bc	1	—	47	30	c.bc	bcq	bc.	7·3
	Aberdeen	1003·4	42	SW	2	c	1005·0	+2	35	-1	WSW	2	—	b	2	—	47	34	op.co	o.bc.c	bc.b	1·6
	Leith	1004·8	43	SW	1	b	1006·1	+1	30	-6	SW	1	—	b	1	-	46	30	eu.bc.b	b.	b.bxz.b	*
	Tynemouth ...	1005·4	44	WNW	1	bcm	1005·3	0	33	-4	WNW	1	-	bm	3	-	46	32	bcm	bcm	bm	*
	Spurn Head ...	1006·6	39	SE	1	cm	1004·0	-1	39	+6	ENE	2	-	c	3	-	45	33	m	cm	bcm	1·8
	Yarmouth ...	1008·2	38	S	2	bc	1003·1	0	38	+5	E	2	-	ofp	2	1	48	32	f.bcm	bcm	cm.pm	3·2
	Clacton-on-Sea	1005·4	41	SSE	1	c	1001·9	0	40	+6	ESE	1	—	r	1	1	43	33	fcm	cm.c	c.cg.mr	1·1
	Nottingham ...	1006·6	42	E	1	b	1003·5	*	38	+6	NNE	2	NE	r	*	0·2	52	32	cm.bc	b.	bc	7·4
	Benson (Oxon.) ...	1006·4	46	S	1	bc	1000·1	0	40	+6	NNE	3	-	0	*	2	46	34	oc	bcp	or.om	*
	Sth Farnborough	1006·7	46	SSE	2	0	999·8	0	41	+8	NNE	2	—	odm	*	4	50	33	co.cod	orq.o.ro	odm	0·8
	London (Kew Obsy.)	1007·6	46	S	3	0	1000·3	0	42	+7	NE	3	—	odm	*	5	47	35	fom.od	od.or.or.om	omf.omd	0·4
NORTHERN EUROPE.	Spitsbergen ...	1023·0	-36	SE	1	b	1021·7	0	-42	-29	S	1	*	b	*	*	-13	-51				
	Vardö	1005·1	16	N	3	s	1004·7	0	10	-9	NE	1	—	s	3	*	25	9				
	Bodö	1010·9	28	SSE	2	0	1001·1	-1	28	+12	N	2	—	c	1	?	28	12				
	Christiansund ...	1008·4	32	—	0	0	1007·9	+2	28	-4	—	0	—	0	3	8	36	28				
	Skudesnaes ...	1008·4	27	—	0	b	1007·5	0	19	-6	—	0	—	b	1	—	30	19				
	Færder (Xtiania Fjord)	1009·6	23	NNE	6	0	1007·3	-1	18	-3	N	4	W	bc	1	3	23	16				
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1009·3	37	ESW	2	0	1008·9	-2	34	-2	ENE	1	—	f	0	—	39	34				
	C. Gris Nez ...	1009·2	44	S	3	bc	1008·8	-1	42	+3	SW	2	*	f	2	5	45	39				
	La Hève	1005·9	44	SW	3	0	1002·7	*	43	+4	WSW	3	*	r	3	6	46	39				
	Brest (St. Mathieu)	1007·0	47	WSW	4	c	1006·1	+2	47	+1	W	4	*	bc	4	:	52	46				
	Rochefort (Ile d'Aix)	1013·0	51	WSW	5	0	1008·8	-8	49	+3	WNW	4	*	r	*	22	54	46				
	Biarritz	1017·9	57	SW	3	0	1011·8	-5	54	+4	SW	3	*	f	2	8	57	46				
	Paris	1012·0	46	S	2	bc	1004·3	-1	45	+2	SSW	2	—	0	*	4	52	43				
	Belfort	1014·0	41	W	3	f	1009·6	*	42	+1	WSW	5	*	0	*	2	46	36				
	Lyons	1018·6	44	—	0	b	1010·9	*	44	+1	—	0	*	0	*	—	54	41				
	Nice	1009·3	47	—	0	b	1010·4	0	46	+1	-	0	*	0	3	—	57	43				
	Perpignan ...	1017·1	52	NW	4	0	1015·1	-1	51	+3	SW	1	S	0	*	—	61	48				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1020·2	61	WSW	6	0	1020·6	+1	55	0	SW	6	—	0	4	?	63	54				
	Madrid	1022·0	59	SW	2	ba	1024·5	+1	48	+2	WSW	2		0	*	0	69	46				
	Lisbon	1026·7	59	SW	3	0	1027·8	0	54	-1	SW	2	—	b	5	—	61	54				
	Azores (Horta) ...	1018·9	*	SW	7	m	1020·0	+1	57	0	SSW	7	*	m	5	—	63	59				
	Madeira																					
	Gibraltar	1028·4	57	NW	5	b	1028·4	*	55	+1	NW	6	*	b	3	—	64	53				
	Malta	*	*	*	*	*	1014·4	+1	57	0	NW	6	NW	c	4	-	61	54				
	Limassol	*	*	*	*	*	1012·3	0	57	0	N	3	—	0	4	-	64	45				
	Alexandria ...	1013·3	59	ENE	1	b	1010·1	+1	59	+4	W	5	-	b	3	-	72	54				
	Cairo (Helwan) ...	1014·6	64	—	0	b	1013·6	+5	54	0	S	3	-	f	*	-	73	52				

RAINFALL.

Equivalents of Millimetres in Inches.

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	89	96	1·0	47	39	35	5.	c.o	c.o	c.o
CITY (Bunhill Row)	*	*	0·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	85	96	0·2	48	38	38	4	od	or	rm
CAMDEN SQ. (British Rainfall) ..	84	96	0·4	48	40	37	3	c.o	or.o	*
HAMPSTEAD (Reservoir)	*	96	0·1	45	34	33	3	c.or	oq	oro
S. KENSINGTON (Museum Grounds)	*	95	0·4	48	34	41	5	o	orm	od.
RICHMOND PARK	*	*		*	*	*	*	*	*	*

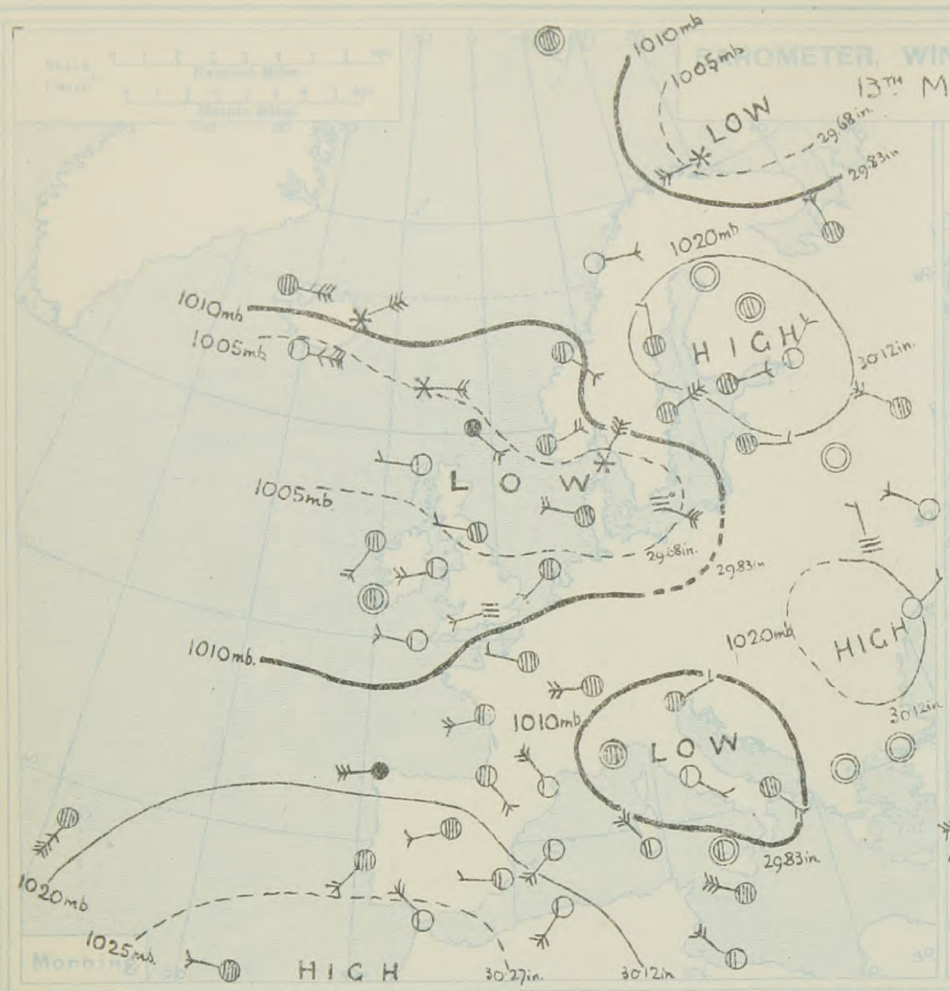
SOUTH KENSINGTON.

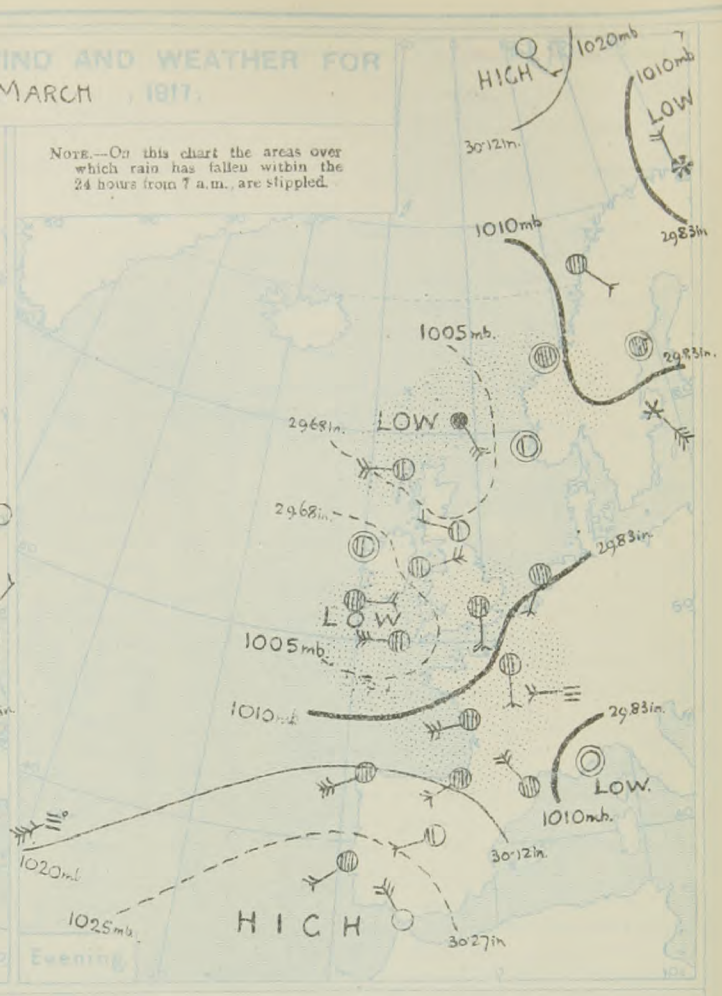
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
335	8·0	39·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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





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 WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0 a, b; 1	Light indefinite winds; moderate temperature; mostly fair.
2 a, b; 3	Moderate North-Easterly or Northerly winds, backing West or South-West later; changeable, showery; rather cold.
4 a, b, c; 5	Wind temporarily fresh from North-West or West, backing and moderating later; changeable, showery; rather cold.
6 a, b	Same as Nos. 0 to 2a.
7 a, b; 8 a, b	Moderate Northerly winds, backing South-West later; unsettled, fair intervals; rather cold.
9 a, b; 10 a, b	Same as Nos. 0 to 2a.
11	Fresh or strong winds between West and North-West, decreasing later; moderate sea; unsettled.

Western Channel and Bay

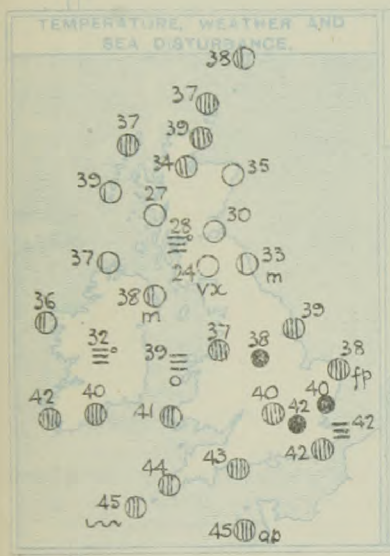
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF Wednesday, 14TH MARCH, 1917.

GENERAL INFERENCE.

Unsettled conditions are likely to continue, especially in the south.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

HIGH 1020mb. 1015mb. 1010mb. 1005mb. 30·12in. 29·97in. 29·83in. 42 10

LOW 28 29·68in.

29·68in. 36 38 32° 28 20° 19 18

LOW 1005mb 37 35 32°

37 33 1005mb Barometer falling

36 39 38 34 40° Barometer falling

1005mb 42 LOW 45 1000mb 42 LOW 29·53in. 40°

29·68in. 45 45 29·68in. 29·83in. 42

1010mb 47 Barometer 49 44

1015mb 50° falling 46

55 54 51 50°

48 30·12in. 57

1020mb. 1025mb. 54 30·27in. 29·97in.

HIGH 55

Scale of Miles
Nautical Miles
Statute Miles

Normal Temperatures of the Sea
Below 40 | 40°-50° | 50°-60° | Above 60

Scale of Tints for MARCH.

Issue No. 20, 201

DAILY WEATHER REPORT.

Wednesday, 14th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1015·7	−4	NE	3	0	1016·8	+2	−6	−13	N	2	b	—	*	−11
	Gorki						1014·7	−	+1	−15	−	0	b	2	*	+1
	Velieki Luki ...						1020·8	*	1		NW	2	c	—	*	0
	Hangö	1020·4	14	−	0	c	1022·6	+1	5	−2	ESE	2	o	—	*	1
	Riga						1019·4	0	9	+6	ESE	1	o	—	*	3
	Petrograd ...	1016·6	10	NW	3	b	1023·0	+4	7	+7	NE	5	b	—	*	−2
	Moscow	1011·4	14	WNW	2	b	1012·2	+2	9	−3	NW	4	o	—	*	+5
	Kiev	1018·6	19	N	2	b	1019·4	0	3	−15	N	1	f	—	*	3
	Kharkov ...	1015·8	18	WNW	2	o	1017·5	+1	7	−12	NW	2	b	—	*	5
	Kishinev ...														*	
	Elisabetgrad ...	1018·6	19	N	3	s	1019·5	+1	19	−2	NW	2	s	—	*	19
	Nicolaiev ...	1018·6	27	NW	2	o	1020·0	*	25	−2	−	0	o	—	*	23
	Odessa	1019·5	27	NNE	3	o	1020·3	+1	23	−4	ENE	1	b	—	*	19
	Tarkhankout...							*							*	
	Soukhoum ...														*	
Mediterranean.	Venice	1008·1	46	ENE	2	r	1005·4	*	46	+1	ENE	1	o	7	50	45
	Pesaro	1007·9	50	SE	1	r	1007·1	*	43	−3	ENE	2	f	2	55	43
	Rome	1010·5	52	SW	1	r	1007·8	*	52	+6	−	0	b	10	63	46
	Viesti	1010·2	54	SSE	1	bc	1006·6	*	52	+2	−	0	o	—	55	48
	Brindisi	1011·8	54	SW	4	c	1007·8	*	55	+9	SE	3	o	—	59	46
	Caghari	1012·5	59	NW	5	b	1009·7	*	54	−3	NW	4	bc	6	63	48
	Palermo	1012·6	59	−	0	o	1013·2	*	55	+3	−	0	bc	—	68	46
	Tripoli						1017·1	*	59	−4	NW	3	bc	—	81	57
	Algiers	1019·5	55	NSW	4	b	1021·0	0	57	+2	SW	4	b	—	61	52
Sweden.	Hernösand ...	1025·3	14	−	0	b	1024·7	*	1	−4	N	2	o	*	*	*
	Stockholm ...	?	19	E	4	o	1019·2	*	19	+1	ESE	6	o	*	*	*
	Wisby	?	27	E	2	o	1010·0	*	27	+8	ESE	4	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1017·6	34	+6	E	7	o
Reykjavik	1011·4	36	0	ENE	5	bc
Vestmanna	1002·4	37	+3	E	8	b
Seydisfjord	1017·6	34	−2	NE	6	s
Thorshavn	1006·0	34	−3	ENE	4	s

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h–9h.	Rainfall. Day. 9h–18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	3	−	48	34	b.bc.b	−	6·1
	Banff	2	1	46	28	od.bc	bc.c.or	2·1
	Montrose							
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	−	−	47	34	c.bc.b	bc.b	5·4
	Skegness	−	−	49	31	om.bc	bc	5·7
Eng. N.W.	Morecambe		−	43	33	−	−	9·0
	Southport	Trace	−	46	34	b	b.bc	9·2
Midlands.	Leamington Spa							
	Malvern	−	−	51	35	b	b.bc	5·2
	Ross-on-Wye	−	−	53	31	mbc	bc	5·4
Wales.	Rhyl	−	−	47	35	c.b	bc	8·8
	Colwyn Bay...	*	*	49	37	b	bc	9·5
	Llandudno	*	*	48	37	b	b	8·7
	Aberystwyth	*	*	46	34	ro.c	bc.o	7·5
	Tenby							

	STATIONS.	Rainfall. Night. 18h–9h.	Rainfall. Day. 9h–18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
England. E.	Lowestoft	−	−	48	31	of.c.bc	c	3·0
	Felixstowe	Trace	−	45	33	fbc	bc.cm	1·6
	Walton-on-Naze							
	Southend-on-Sea	−	−	46	33	o.c	ov	1·1
England. S.E.	Margate	−	−	49	35	bc	c	2·2
	Ramsgate							
	Hastings	−	−	46	36	o.c	o	0·2
	Eastbourne	−	−	47	39	o.bc.o	oc	0·7
	Seaford	*	*	46	32	f.o.	o	0·0
	Brighton	−	Trace	45	33	c.o	c.op	0·6
	Worthing	−	1	47	31	o.c	ro	0·4
	Littlehampton	Trace	1	44	30	o.bc	o	1·2
	Bognor	*	*	44	37	bcg	gr.g	0·0
	Bournemouth	1	1	47	33	do	od	0·0
England. S.W.	Plymouth	*	*	52	40	cb	om	2·2
	Weymouth...	*	*	47	35	cpm	cm	0·0
	Torquay	Trace	1	49	36	o.b	b.or	2·8
	Paignton	*	*	52	36	bc	op	1·6
	Penzance	4	3	50	39	bc	or.c	4·2
	Newquay	3	2	50	39	od	od	2·6
	Bude							
	Ilfracombe	−	−	50	40	bc	bc	2·9
	Weston-s-Mare	−	−	53	39	bc.bbc	b.bc	4·0

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

14th and 15th March, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	6.14	12.3	5.52
	6.11	12.2	5.54
Greenwich	6.19	12.10	5.59
	6.17	12.9	6.2
Wick	6.35	12.22	6.8
	6.32	12.21	6.11
Valencia	7.0	12.51	6.41
	6.58	12.50	6.43

NOTES ON YESTERDAY'S WEATHER.

Good sunshine measurements were recorded at several stations in the West, up to 9·7 hours at Malin Head. Temperature was moderate generally. Rain fell on the English Channel.

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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 74 (Thursday, 15th March)

	STATIONS	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING. 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 ...	1014.2	37	NE.	4	c	1025.7	+2	36	-2	NNE	2	—	c	2	—	40	36	bc.c	c.bc	bc.c	*
	Deerness (Orkney)	1013.5	37	NE.	5	b	1026.1	*	35	-2	N	3	—	c	2	1	42	33	o.c	c.bc.b	b.bcph	0.9
	Stornoway ...	1015.1	41	ENE	6	cpor	1027.4	+5	34	-3	E	2	—	b	2	1	46	34	o.c	cpq	b.bc.b	0.3
	Castlebay (Barra Isd.)	1013.1	45	NW	1	b	1026.6	+6	41	+2	E	3	—	o	3	—	47	39	b	b	b.o	8.2
	Glasgow ...	1011.7	42	N	1	b	1026.4	+8.	32	+4	ENE	1	N	b	*	Trace	47	26	bmz	b	bzx	6.3
	Eskdalemuir ...	1012.1	35	NNE	3	bcx	1025.8	+8	31	+7	NNE	4	—	bx	*	—	46	23	bv	bvbz	b.bc.bx	9.0
	Malin Head ...	1015.2	42	NNE	2	bc	1025.0	+7	39	0	SW	2	—	bcx	2	—	47	36	bc	bc	bcx	8.7
	Blacksod Point	1014.1	44	N	3	bc	1025.9	?	40	+4	—	0	—	bv	2	—	46	36	bc	bc	bv	*
	Valencia ...	1013.9	46	NNE.	4	b	1026.7	+5	32	+10	NE	2	NW	bcx	4	2	49	31	odr	od.b	b.bcx	1.4
	Roche's Point	1012.8	45	NW	1	0	1026.4	*	34	-3	N	1	—	b	2	0.2	48	34	o.	o.	c.bx	*
	Birr Castle ...	1012.9	45	NW	1	bc	1022.6	*	29	-5	SSW	1	—	m	*	0.2	49	29	fg.bc	bc	bzx	6.9
	Donaghadee ...	1011.4	43	NE.	1	bcm	1025.0	+6	34	-1	SE	1	—	cm	2	—	45	34	bm	bm	bm.cm	*
	Liverpool (Bidston)	1011.0	39	N	2	0	1024.6	+7	34	-3	NNE	1	N	b	1	—	45	33	bcm	c.	c.bx	0.8
	Holyhead ...	1011.9	42	NE.	4	om	1024.2	+6	39	0	NNE	4	—	b	3	—	47	39	o.c.bcm	c.sm	bc.c.b	0.7
	Pembroke (St. Ann's)	1011.8	43	NW	3	bc	1024.2	+9	38	-3	N	3	—	b	2	—	48	34	o.c.o	c.bc	bz.b	3.8
	Scilly (St. Mary's)	1011.7	48	—	0	bc	1023.1	+8	44	-1	NNE	3	N	bcm	3	—	51	41	c	bc	bc.o.bc	3.9
	Falmouth ...	1012.0	45	NNW	1	bz	1022.9	+6	39	-5	N	3	—	b	*	—	52	38	bc.	bc.c.b	bc.b	6.1
	Jersey (St. Aubin)	1009.7	47	WNW	4	o	1019.4	*	43	-2	NW	3	NW	b	2	2	49	41	oq/pq	oq:c.o	o.c.b	0.5
	Portland Bill ...	1009.4	47	NNW	1	cgm	1019.7	+6	39	-4	NNE	3	—	ogx	3	2	48	39	bc.c	bm	c.orm	*
	Dungeness ...	1007.2	42	E.	3	oq	1019.5	+4	34	-8	ENE	4	E	c	3	—	46	32	m:cm.d	om	co.bc	*
	Dover	1009.2	40	N	5	c	1021.1	+5	35	-7	N	4	E	o	2	1	47	32	fo	c.om	o	0.0
	Wick	1013.3	40	ENE	3	0	1027.0	+4	32	-7	NW	1	—	bc	3	2	42	31	ogmp	omp.g	bcm	*
	Nairn	1012.5	39	ENE	1	om	1027.1	*	32	-2	—	0	—	orsp	1	5	43	29	bc.cp	cr	csp.	1.6
	Aberdeen	1011.5	40	NNE	3	c	1026.1	+6	33	-2	NW	3	—	b	2	0.2	46	33	b.bc	bc.cp	cp.spb	5.6
	Leith	1011.5	41	W	1	b	1025.6	+3	36	+6	NE	2	NE	c	2	0.2	47	30	bz.b	b.	bz.opc	*
	Tynemouth ...	1010.6	41	—	0	b	1023.3	+7	38	+5	NNW	3	N	om	4	—	45	32	bm	b	cm	*
	Spurn Head ...	1011.1	40	ENE	2	b	1020.7	+3	36	-3	NW	3	—	bcf	4	—	46	32	bc	bc	b	8.7
	Yarmouth ...	1008.3	37	NNE	4	c	1019.8	+4	32	-6	NW	2	—	of	1	1	39	31	omf.p.	omf.bcm	bm	0.0
	Clacton-on-Sea	1008.8	41	NNE	2	o	1021.1	+3	32	-8	NNW	1	—	f	1	1	42	31	ogmd	ogmd	o.bc.bf	0.0
	Nottingham ...	1010.6	43	E.	2	b	1022.6	*	37	-1	NNW	2	—	b	*	1	49	33	o.c	c.b	b	5.1
	Benson (Oxon.) ...	1010.0	41	N	1	b	1021.3	+6	34	-6	NNE	1	W	bcx	*	0.1	46	31	p o	bc	b.o	*
	Sth Farnborough	1008.9	44	NNE	2	o	1021.1	+6	32	-9	N	1	NW	cx	*	0.2	46	30	b.sm	sm	o bc x bc	0.0
	London (Kew Obsy.)	1009.6	44	NNE.	3	om	1021.8	+6	34	-8	—	0	NW	bcmx	*	0.1	47	32	omd.om	om.o.pm	om.bm.g3	0.1
NORTHERN EUROPE.	Spitsbergen ...	1022.1	-45	S	2	b	1019.9	+1	-40	+2	S	1	*	b	*	*	-35	-49				
	Vardö															*						
	Bodö	1005.5	23	N	2	c	1009.6	+1	16	-12	E	1	—	b	1	?	28	14				
	Christiansund ...	1011.3	28	NW	3	o	1017.0	+3	32	+4	NW	6	—	c	4	3	34	27				
	Skudesnaes ...	1010.7	30	N	2	s	1021.3	+1	27	+8	N	4	—	b	1	?	32	19				
	Færder (Xiania Fjord)	1008.8	28	WSW	2	b	1018.9	+6	23	+5	NNW	2	—	b	1	—	28	16				
	The Scaw (Skagen)	1008.7	23	NW	2	bc	1018.9	+6	28	+7	NNE	3	—	b	3	—	30	21				
	Blaavands Huk	1009.9	27	NE	1	c	1019.3	+7	27	-1	—	0	—	c	0	—	32	21				
	Copenhagen ...	1007.3	25	N	3	o	1017.3	+7	25	-3	N	2	—	b	*	—	30	21				
	Bornholm ...	1004.4	27	NNW	3	m	1013.1	+5	23	-7	N	5	—	b	2	Trace	30	21				
FRANCE, &c.	The Helder ...	1008.7	32	NNE	4	f	1020.3	+6	32	-2	ENE	2	—	c	1	—	37	32				
	C. Gris Nez ...	1007.3	39	NE	3	f	1019.3	+6	29	-5	NE	3	*	o	2	1	46	34				
	La Hève	1008.2	42	N	4	f	1018.7	*	38	-5	NE	3	*	m	2	—	45	37				
	Brest (St. Mathieu)	1012.8	48	WNW	3	c	1022.3	+4	46	-1	N	3	*	o	5	—	52	43				
	Rochefort (Ile d'Aix)	1013.5	49	WNW	5	c	1020.0	+3	44	-5	NNW	3	*	c	*	2	52	44				
	Biarritz	1016.0	51	NW	3	r	1021.1	+2	62	-2	NW	3	*	o	4	30	55	48				
	Paris	1006.4	48	NW	2	o	1016.8	+5	34	-8	N	4	—	o	*	2	54	34				
	Belfort	1007.4	39	W	4	o	1014.0	*	37	-5	E	2	*	r	*	6	42	34				
	Lyons	1009.0	42	WNW	5	bc	1013.7	*	42	-2	NNW	4	*	o	*	4	46	39				
	Nice	1001.3	46	WSW	5	b	1005.3	+3	47	+1	E	2	*	b	3	—	54	39				
	Perpignan ...	1011.9	54	NW	4	bc	1015.1	+5	46	-5	NW	4	NW	bc	*	2	61	45				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1022.4	57	W	2	bc	1021.8	+2	55	+4	NW	3	—	bc	*	—	59	52				
	Lisbon	1029.5	57	NW	3	o	1029.7	o	54	o	NNW	2	—	o	4	—	61	54				
	Azores (Horta) ...	1019.9	*	SSW	8	m	1017.1	-1	59	-2	S	8	*	o	6	—	63	59				
	Madeira																					
	Gibraltar	10264	58	NW	6	b	10264	*	55	o	NW	5	*	b	3	—	66	54				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...	10115	61	WNW	6	b	10139	+1	61	+2	W	6	—	b	5	—	68	55				
	Cairo (Helwan) ...	10136	66	W	3	c	10159	+3	54	o	S	2	NW	bc	*	-	73	52				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7:10 h.

3,000	metres	NNE 6 m/s
2,700	"	NNE 10 m/s
2,400	"	NE'N 8 m/s
2,100	"	NE 3 m/s
1,800	"	E 3 m/s
1,500	"	NE'N 3 m/s
1,200	"	NE'N 6 m/s
900	"	NE 6 m/s
600	"	NE'N 5 m/s
300	"	NNE 8 m/s
Surface		N'E 2 m/s

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. Today. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	83	85	0.0	46	30	25	—	o.	o	o.bc
CITY (Bunhill Row)	*	*	0.3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	78	84	0.2	49	32	31	Trace	mr	me	eemx
CAMDEN SQ. (British Rainfall) ...	78	79	0.3	49	30	27	Trace	om	o,o	*
HAMPSTEAD (Reservoir)	*									
S. KENSINGTON (Museum Grounds)	*	83	0.3	48	34	27	1	od.o	om.b	m.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

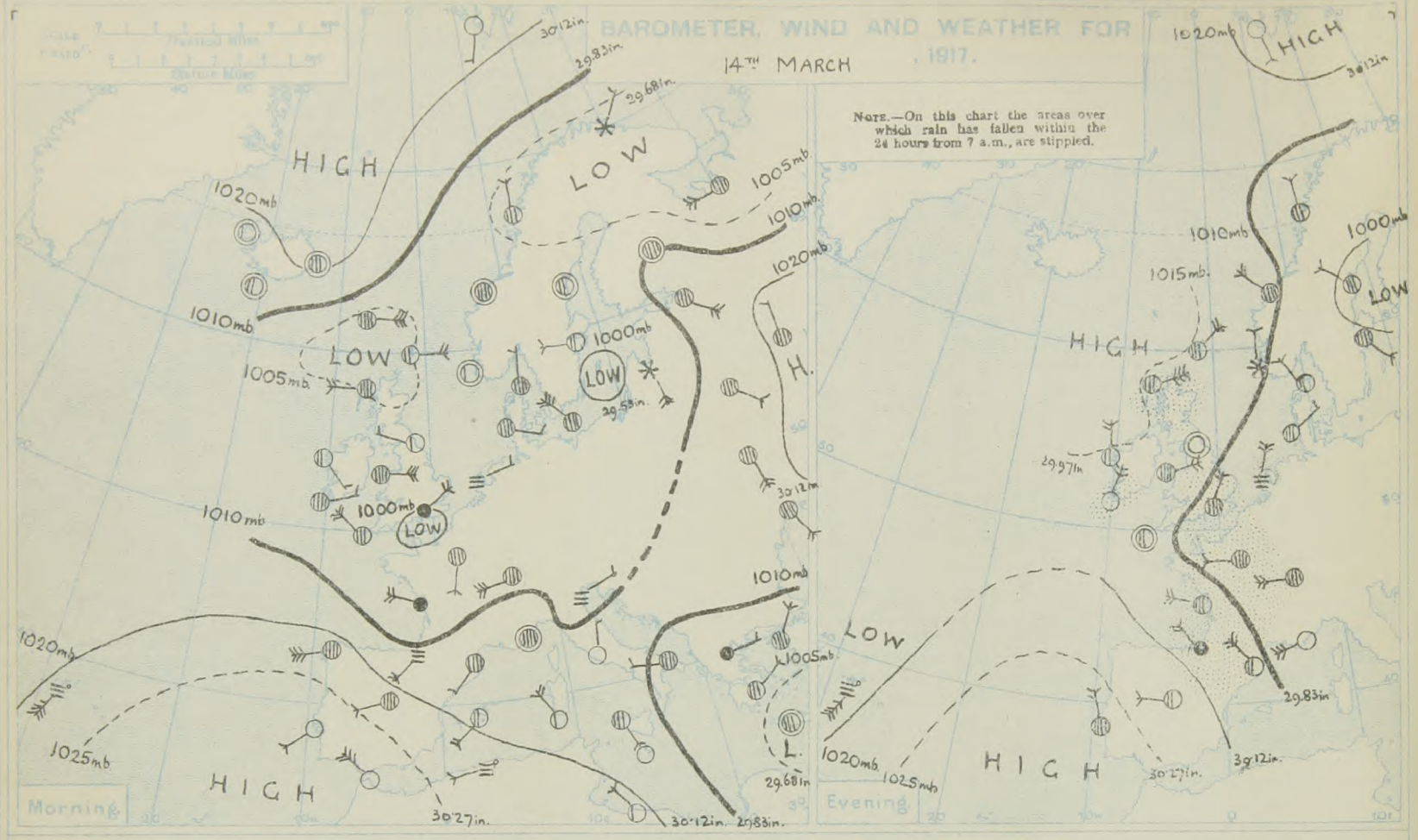
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
255	6.1	39.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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.

: NO :: WARNINGS : ISSUED.

Western Channel and Bay.

0 {a b}
1
2 {a b}
3
4 {a b c}
5
6 {a b}
7 {a b}
8 {a b}

Light or moderate Winds between North and North-East; generally fair; some night mist; rather cold.

9 {a b}
10 {a b}
11

Light variable to moderate Southerly winds; fair weather; normal temperature.

Moderate Northerly winds, decreasing later; slight sea; fair.

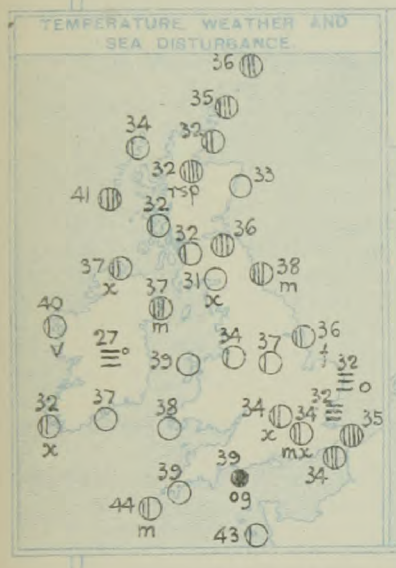
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 15TH MARCH, 1917.

GENERAL INFERENCE.

Anticyclonic conditions are likely to prevail except on the extreme Western coasts.



EXPLANATION.

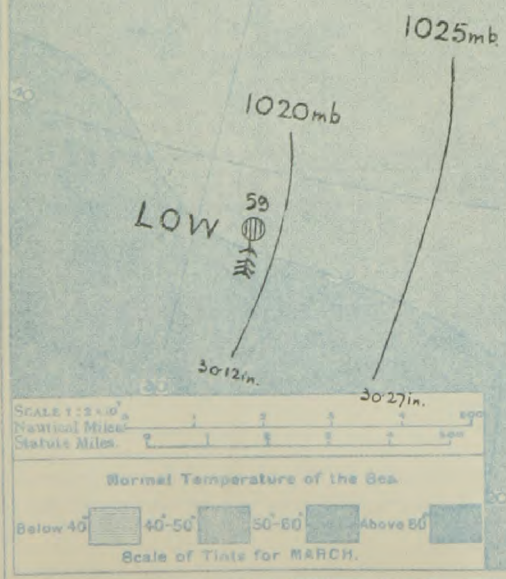
BAROMETER.—Isobars are drawn for intervals of five millibars.

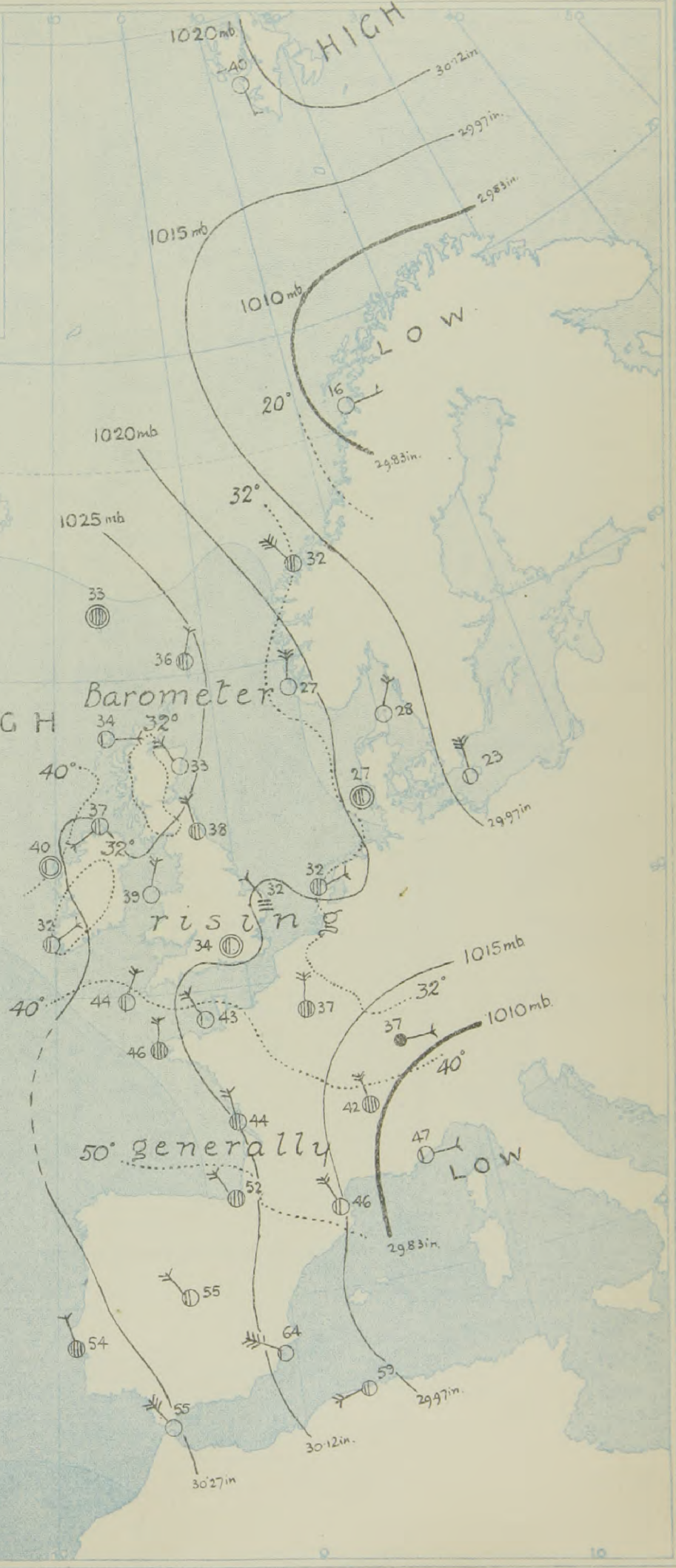
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.





Issue No. 20,202. **DAILY WEATHER REPORT.** Thursday, 15th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...						1002·6	−3	5	+11	W	4	0	—	*	−6
	Gorki						1014·0	−1	10	+9	SE	2	0	—	*	0
	Velieki Luki ...						1012·7	*	10	+9	SE	4	0	—	*	1
	Hangö	?	16	ESE	4	0	1004·6	−6	14	+9	ESE	3	5	1	*	3
	Riga	1013·1	14	SE	3	0	1002·1	−7	21	+12	SSE	3	5	—	*	7
	Petrograd ...	1021·3	7	SE	2	3	1012·6	−6	3	−4	SE	4	0	—	16	1
	Moscow	1021·1	1	NW	3	7	1024·0	0	−8	−17	N	1	0	—	*	−11
	Kiev	1019·5	19	SSE	2	6	1015·1	−3	19	+16	SSE	4	0	—	*	3
	Kharkov ...														*	
	Kishinev ...	1018·6	28	NW	1	0	1017·9	0	25		SE	1	0	—	*	21
	Elisabetgrad ...	1020·7	23	S	2	0	1018·9	−1	23	+4	SE	3	0	—	*	19
	Nicolaiev ...	1022·0	28	-	0	c	1018·7	*	28	+3	SE	2	0	—	*	23
	Odessa	1020·2	30	SE	3	0	1017·5	−1	30	+7	SSE	3	0	—	*	23
	Tarkhankout...	1020·8	30	NE	4	0	1017·5	*	30		ESE	5	0	—	*	28
	Soukhoum ...	1013·7	23	—	0	r	1015·4	+1	25		—	0	r	14	*	23
Mediterranean.	Venice	1009·1	50	NW	1	bc	1009·7	*	45	−1	ENE	1	f	—	54	43
	Pesaro	1010·7	48	—	0	0	1010·3	*	46	+3	SW	1	0	—	50	43
	Rome	1010·2	50	NW	1	bc	1010·7	*	45	−7	—	0	b	12	57	43
	Viesti	1008·5	52	NW	1	c	1010·2	*	50	−2	W	1	r	?	55	48
	Brindisi	1009·7	52	SE	1	bc	1009·7	*	48	−7	W	1	0	8	54	50
	Cagliari	1013·8	57	NW	6	b	1015·8	*	55	+1	NW	3	b	—	61	48
	Palermo						1013·3	*	55	0	SSE	2	c	3	61	48
	Tripoli						1020·3	*	59	0	NW	2	b	—	63	54
	Algiers	1023·0	57	SE	5	b	1023·8	+2	57	0	WSW	2	m	—	66	52
Sweden.	Hernösand ...	1018·4	16	—	0	0	1005·5	*	7	+6	—	0	bc	*	*	*
	Stockholm ...	1002·9	19	SE	6	8	1001·7	*	16	−3	W	2	c	*	*	*
	Wisby	1004·3	27	E	2	8	997·9	*	28	+1	N	4	0	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	F			
Isafjord ...	1018·6	27	−7	-	0	b
Reykjavik	1019·4	36	0	-	0	bc
Vestmanna	1019·5	27	−10	E	3	b
Seydisfjord	1021·2	30	−4	-	0	c
Thorshavn	1004·6	36	+2	E	6	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h–9h.	Day. 9h–18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	—	—	46	26	b. bc	—	7·0
	Banff	Trace	—	48	39	o.c	c pr	0·1
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	—	—	46	28	bx	bx	10·2
Eng. N.E.	Harrogate	—	—	46	30	b	b. bc	7·8
	Skegness	—	—	43	36	o.c. b	b	5·2
Eng. N.W.	Morecambe	—	—	43	32	—	—	9·0
	Southport	—	—	47	32	bc. b	bc. c. o	5·2
Midlands.	Leamington Spa							
	Malvern	2	—	46	35	o.c	bc. c. o	1·2
	Ross-on-Wye	2	—	48	40	cm	bc	1·2
Wales.	Rhyl	—	—	43	36	c. o. c	bc. cd	2·2
	Colwyn Bay...	*	*	43	36	c	c. o	1·8
	Llandudno	*	*	46	37	c	c	1·3
	Aberystwyth	*	*	45	40	ro. c	c. o	1·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h–9h.	Day. 9h–18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
England. E.	Lowestoft	3	1	39	37	omr	o.c	0·0
	Felixstowe	2	1	43	34	ofr	omp	0·0
	Walton-on-Naze							
	Southend-on-Sea	2	1	43	36	or	oz	0·0
England. S.E.	Margate	3	Trace	44	40	od. f	od	0·0
	Ramsgate							
	Hastings	4	—	48	41	or. c	o	0·2
	Eastbourne	5	Trace	48	38	o. c	o. bc	0·2
	Seaford	*	*	48	41	o	c	0·2
	Brighton	5	—	48	41	of	og	0·0
	Worthing	4	—	48	41	o	o	0·1
	Littlehampton							
	Bognor	*	*	47	40	g	g	0·0
	Bournemouth	6	—	50	40	o	bc	2·4
England. S.W.	Weymouth...	*	*	52	41	c. bc	bcm	2·0
	Torquay	3	—	51	44	o. c	c. o	1·2
	Paignton	*	*					
	Penzance	Trace	—	52	44	bc	b	7·1
	Newquay	Trace	—	48	42	b	b	5·1
	Bude							
	Ilfracombe	5	—	48	42	bc. b	b. bc	6·0
	Weston-s-Mare	4	—	49	42	c. bc	bcm	1·5

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

15th and 16th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.11 / 6.8	12.2 / 12.2	5.54 / 5.56
Greenwich	6.17 / 6.14	12.9 / 12.9	6.2 / 6.4
Wick	6.32 / 6.29	12.21 / 12.21	6.11 / 6.14
Valencia	6.58 / 6.55	12.50 / 12.50	6.43 / 6.45

NOTES ON YESTERDAY'S WEATHER.

The day was again bright at many stations in the West and North-West. Little rain fell. Night frosts occurred in most parts of the 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.

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 75

Friday 16th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·3	38	NNW	2	0	1021·9	-7	39	+3	S	5	–	odm	4	1	40	36	bc.o	bc.o	odm	*
	Deerness (Orkney)	1030·8	36	S	2	0	1020·3	*	37	+2	S	6	–	r	5	7	43	35	c.o	q.	or	1·4
	Stornoway ...	1029·2	43	S	4	0	1018·9	-1	44	+10	S	7	–	orq	6	3	45	34	b.bc	bc.o	orq.	7·0
	Castlebay (Barra Isd.)	1030·1	43	S	4	0	1023·2	-1	47	+6	SW	5	–	d	6	3	47	41	o.bc.om	om.c.o	ord.	2·1
	Glasgow ...	1033·1	40	SE	1	cz	1028·8	-4	40	+8	SSE	2	–	omq	*	–	44	31	b.	bc.cx	om.bxo	7·3
	Eskdalemuir ...	1034·3	35	–	0	b	1032·0	-3	35	+4	SSW	5	–	om	*	–	43	25	bx.b	bcv.bv	b.bcx	9·7
	Malin Head ...	1029·9	45	S	3	cm	1025·3	-2	43	+6	SSW	5	SW	cq	4	–	49	37	b.	bc	cmq	8·3
	Blacksod Point	1029·0	43	S	5	crm	1026·7	?	46	+6	S	6	–	ome	5	1	47	40	bc	ba	om.ome	*
	Valencia ...	1031·9	45	SSE	3	o	1032·1	0	48	+16	S	4	–	odm	4	1	50	32	bc.cr	c.ov	oc.bc.od	1·5
	Roche's Point	1033·8	45	SW	2	o	1034·7	*	46	+9	SW	3	–	o	3	0·2	49	37	b.	bc.o	o.do	*
	Birr Castle ...	1032·2	47	SSE	1	c	1031·6	*	45	+18	S	1	–	o	*	–	53	29	c.	c.	c.o	7·7
	Donaghadee ...	1032·8	40	S	2	bcm	1029·6	-2	42	+5	SW	4	–	omp	3	Trace	46	37	bcm	bc	opgm	*
	Liverpool (Bidston)	1033·8	38	WNW	1	b	1035·0	0	36	+2	ESE	3	SE	o	2	–	43	34	b.	b.	cm.o	7·6
	Holyhead ...	1033·9	42	ENE	3	bz	1034·3	-1	42	+3	SSW	5	–	omqq	4	–	48	35	b.	bz	bx.bmo	9·3
	Pembroke (St. Ann's)	1033·9	43	N	3	bc	1034·1	+1	42	+4	S	3	–	o	2	–	50	37	b.be	bc	b.o.co	9·9
	Scilly (St. Mary's)	1034·1	45	NNE	2	bc	1037·8	+1	45	+1	SSW	3	S	c	3	–	50	41	bc	bc	bc.c	10·4
	Falmouth ...	1034·0	45	N	1	b	1038·9	+2	36	-3	WSW	1	–	bcx	*	–	51	35	b	b	b.bx	10·0
	Jersey (St. Aubin)	1030·6	45	N	2	b	1039·6	*	34	-9	N	2	–	bm	1	1	47	32	orq.b	b.	bwxm	6·0
	Portland Bill ...	1032·0	46	NE	2	c	1039·0	+1	36	-3	ESE	2	–	bcx	2	5	48	35	ro.be	bc.c	c.bc.b	*
	Dungeness ...	1030·1	43	ENE	3	c	1039·1	+3	36	+2	N	3	–	o	2	–	45	34	c.bz	c.	bc.o	*
	Dover	1030·7	40	NE	2	o	1039·7	+3	36	+1	WNW	2	W	o	2	–	49	34	c.b	b.o	o.	4·6
	Wick	1031·3	39	SSW	2	bc	1018·6	-8	39	+7	S	4	–	r	4	5	44	30	bc.c	c.bc m	bc.omr	*
	Nairn	1031·2	39	–	0	bc	1021·7	*	42	+10	WSW	5	–	cqq	3	0·4	45	31	pc.bc	bc	bc.cq	6·7
	Aberdeen	1033·1	40	S	2	b	1026·0	-7	37	+4	S	4	–	r	3	2	43	33	bc.o	c.bc.b	bd.cor	2·1
	Leith	1033·7	39	E	1	bc	1028·4	-3	41	+5	SW	2	–	o	2	–	46	35	c.bc.b	b.o	bc.bgo	*
	Tynemouth ...	1034·1	40	NE	1	bc	1033·0	-2	35	-3	SW	2	–	om	3	–	45	33	b.	b	cm	*
	Spurn Head ...	1034·4	36	ENE	3	bc	1037·6	0	34	-2	SW	2	–	c	2	–	41	31	o	bc	b	2·8
	Yarmouth ...	1032·5	38	E	1	0	1038·3	+1	31	-1	WSW	1	–	bc	1	–	45	29	bcmf	om	bc	1·7
	Clacton-on-Sea	1031·0	42	NNW	2	c	1039·2	+2	37	+5	WSW	2	W	c	2	–	45	31	cf	c.bc.c	c.oq.c	3·0
	Nottingham ...	1034·1	38	E	2	b	1037·3	*	31	-6	SW	1	–	omx	*	Trace	45	26	bc.cp	c.b	b.	5·2
	Benson (Oxon.) ...	1033·3	40	NNE	1	c	1039·1	+2	33	-1	S	1	–	o	*	–	44	28	o.	bc	b.o	*
	Sth Farnborough	1032·2	40	N	2	o	1039·2	+2	33	+1	W	1	NW	bc	*	–	46	32	c.b.o	o.	o.b.bc	3·7
	London (Kew Obsy.)	1032·7	40	NNE	2	om	1039·9	+3	38	+4	S	1	N	om	*	–	43	33	bomx.b.co	o.c.om.	om.o.om	2·3
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1025·0	32	W	5	b	1030·6	+3	30	+2	–	0	–	o	0	–	36	27				
	Blaavands Huk	1030·6	30	W	1	b	1034·1	+1	34	+7	WNW	3	–	o	1	–	36	25				
	Copenhagen ...														*							
	Bornholm ...	1025·6	30	WNW	3	b	1029·7	+3	27	+4	WNW	2	–	m	0	–	28	25				
FRANCE, &c.	The Helder ...	1032·6	34	N	2	b	1038·0	+2	34	+2	SW	1	–	b	0	–	41	32				
	C. Gris Nez ...	1026·0	36	E	2	b	1039·0	+2	34	-3	E	1	*	o	1	–	41	32				
	La Hève	1031·0	36	NE	3	m	1039·0	*	32	-6	NE	3	*	m	0	–	43	32				
	Brest (St. Mathieu)	1033·6	45	NE	3	c	1039·9	+1	41	-5	E	3	*	bc	5	–	50	37				
	Rochefort (Ile d'Aix)	1026·3	46	NNE	4	c	1037·3	+3	36	-8	ENE	4	*	b	*	1	56	34				
	Biarritz	1024·3	47	NNW	3	r	1035·8	+2	37	-15	ENE	2	*	b	2	3	54	36				
	Paris	1029·0	39	NNE	4	b	1039·8	+5	30	-7	NNE	1	–	f	*	–	43	28				
	Belfort	1023·5	36	E	6	o	1038·6	*	27	-10	E	6	*	m	*	–	42	24				
	Lyons	1019·7	37	N	6	r	1029·3	*	32	-10	NNW	6	*	b	*	?	46	30				
	Nice	1006·6	53	E	1	c	1019·0	+7	49	+20	–	0	*	b	5	1	64	43				
	Perpignan ...	1016·6	50	NW	3	bc	1026·6	+8	41	-5	NW	7	–	b	*	–	57	39				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1031·5	54	N	2	o	1034·7	+1	48	-6	NE	4	–	b	2	Trace	55	46				
	Madrid	1020·3	61	W	1	c	1030·9	+3	41	-16	NW	1	–	b	*	–	63	37				
	Lisbon																					
	Azores (Horta) ...	1014·3	*	SW	8	m							*									
	Madeira																					
	Gibraltar	1023·7	58	NW	5	b	1023·0	*	56	+1	NW	4	*	b	4	–	66	54				
	Malta	*	*	*	*	*	1008·2	+3	55	-4	WNW	3	–	bc	2	2	63	54				
	Limassol	*	*	*	*	*	1016·8	+4	59	+2	–	0		o	5	3	63	54				
	Alexandria ...	1017·2	61	WNW	2	b	1020·0	+2	59	-2	S	2	–	b	1	–	68	52				
	Cairo (Helwan) ...	1017·4	61	–	0	b	1021·0	+2	61	+4	SE	1	–	b	*	–	72	54				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.6 h.

4,000	metres	N'W 16
3,900	"	NNW 15
3,400	"	NW'N 9
3,000	"	NW'N 9
2,900	"	NW'N 9
2,400	"	NW'N 9
2,100	"	NNW 9
1,800	"	NW'N 9
1,600	"	NW'N 7
1,200	"	NNW 10
900	"	NW 3
600	"	WSW 6
300	"	W'S 5
Surface		W'S 3

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	79	86	2·0	44	34	30	–	bx	oz	oz
CITY (Bunhill Row)	*	*	1·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	76	82	1·5	44	38	34	–	om	om	ogm
CAMDEN SQ. (British Rainfall) ..	77	86	2·2	44	36	32	–	b.o	o	*
HAMPSTEAD (Reservoir)	*	84	3·0	41	34	27	–	bc.o	o	og
S. KENSINGTON (Museum Grounds)	*	84	1·6	44	37	34	–	o	om	o.bc
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

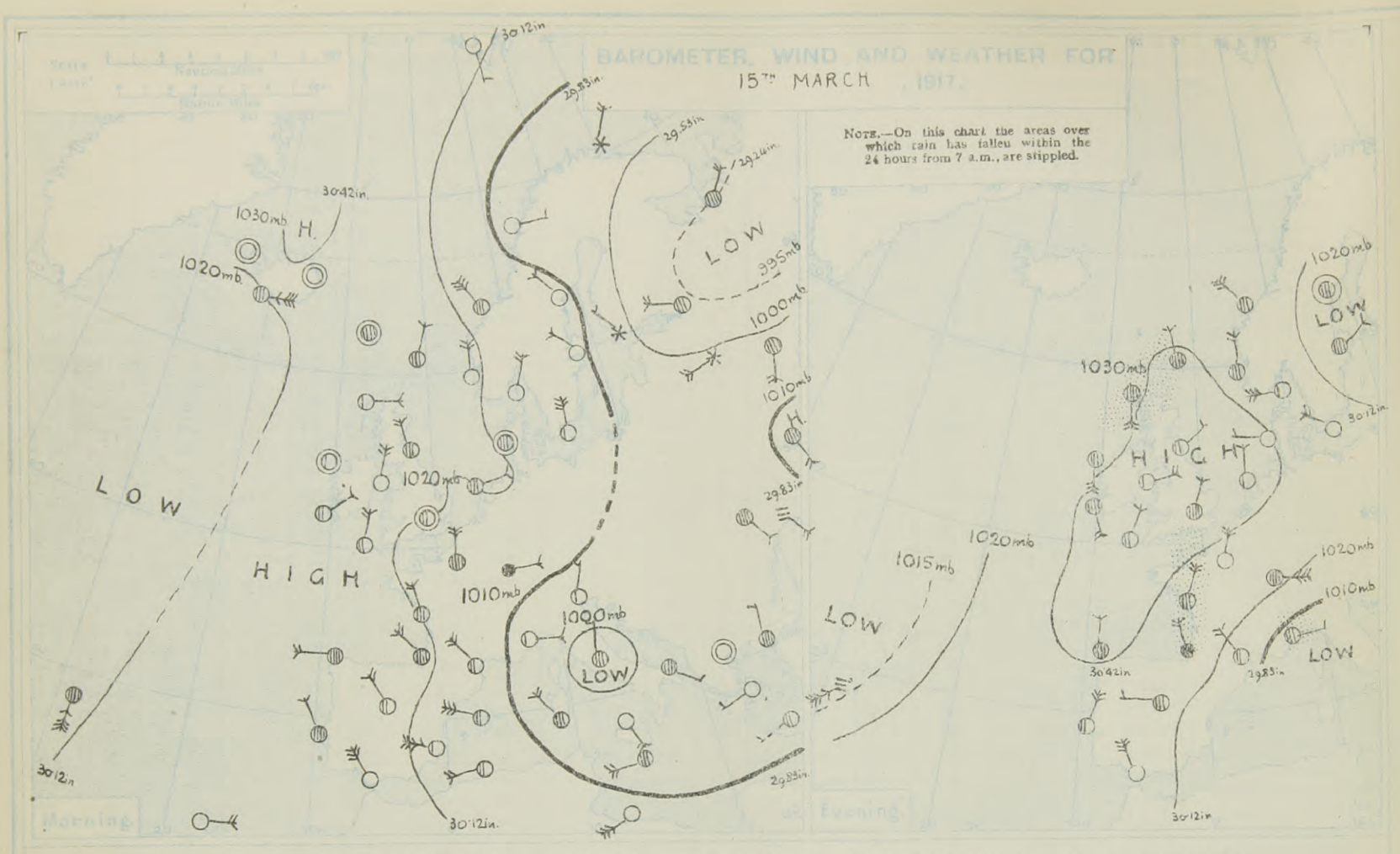
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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

15TH MARCH 1917.



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

FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0 1 2 — Fresh or strong winds from between South and South-West; dull weather with occasional rain; milder.

3 4 5 — Wind becoming moderate or fresh from between South and South-West; fair; becoming warmer.

6 7 — Same as Nos. 0 to 2.

8 — Winds becoming fresh or strong from South or South-West; fair at first, some rain later; rather mild.

9 10 — Same as Nos. 0 to 2.

Western Channel and Bay 11 — Light winds becoming moderate South-Westerly; moderate sea; fair.

FURTHER OUTLOOK

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

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 16TH MARCH, 1917.

GENERAL INFERENCE.

Secondary depressions approaching our N.W. coast are likely to cause strong winds and unsettled weather over all but the extreme S. of the country.

EXPLANATION.

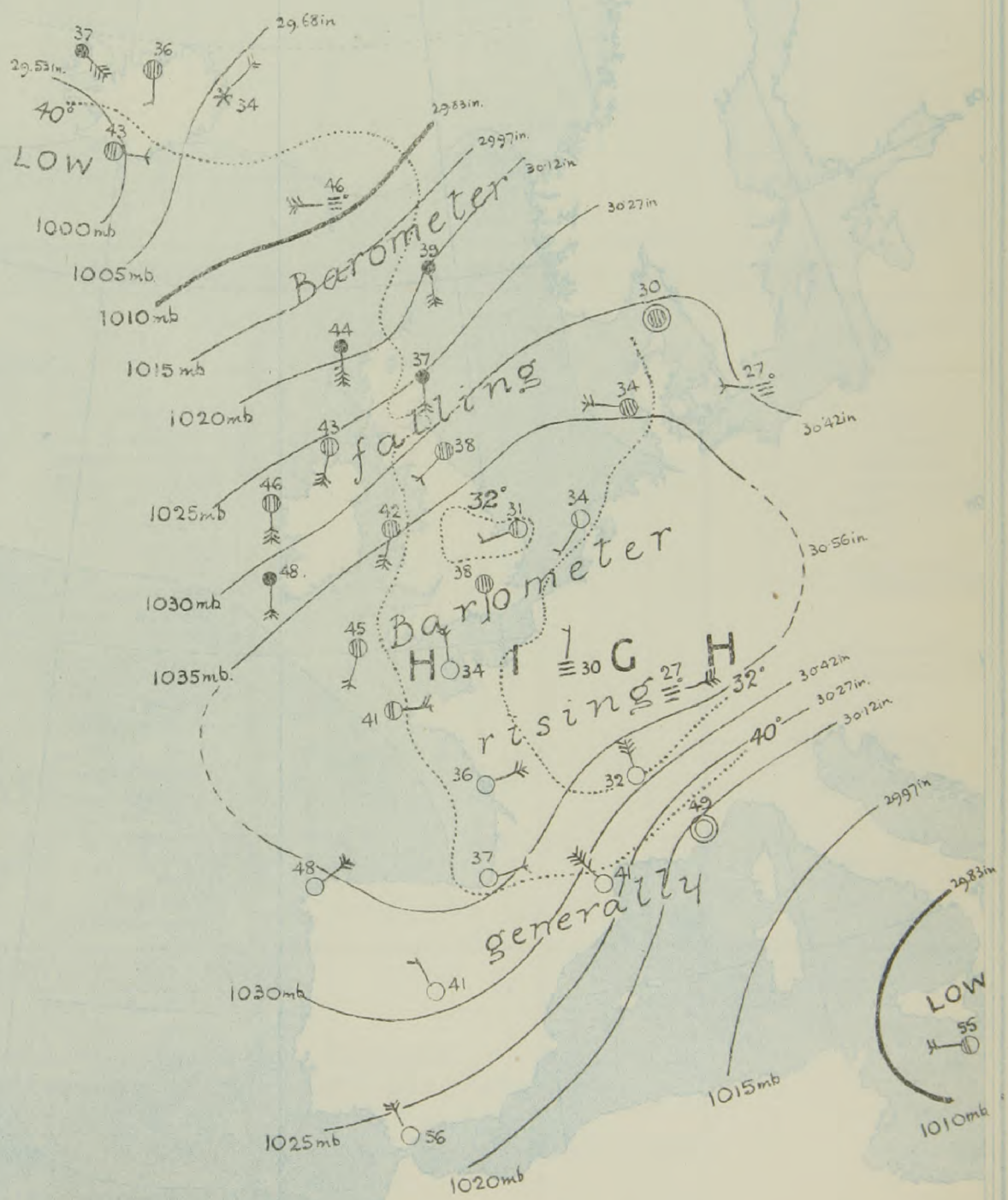
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 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 × 10⁶
Nautical Miles 0 1 2 3 4 5 6
Statute Miles 0 1 2 3 4 5 6 7

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

Issue No. 20,203

DAILY WEATHER REPORT.

Friday, 16th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...						995·0	-3	3	-2	NE	3	0	–	*	+1
	Gorki														*	
	Velieki Luki ...						1001·5	*	16	+6	WSW	4	8	–	*	10
	Hangö	998·7	9	NNW	2	bc	1002·0	+4	7	-7	–	0	8	–	*	3
	Riga														*	
	Petrograd ...	994·0	16	SE	2	8	995·3	+5	0	-3	WNW	3	c	2	18	0
	Moscow						1000·3	-4	19	+27	SSW	3	0	2	*	-8
	Kiev														*	
	Kharkov ...						1012·0	-1	23	.	SSE	3	0	–	*	21
	Kishinev ...	1009·3	34	SE	1	0	1006·1	-3	34	+9	SE	2	0	–	*	25
	Elisabetgrad ...	1012·7	30	SSE	3	0	1009·5	-1	30	+7	SSE	2	c	–	*	23
	Nicolaiev ...	1012·7	34	SSE	3	0	1009·9	*	28	0	SE	2	f	–	*	25
	Odessa						1009·0	-1	30	0	SE	3	f	–	*	28
	Tarkhankout...	1012·2	32	NE	4	b		*							*	
	Soukhoum ...						1008·2	*	32	+7	NE	2	0	–	*	25
MEDITERRANEAN.	Venice	1003·8	50	–	0	0	1004·1	*	46	+1	–	0	b	–	54	45
	Pesaro	1003·3	48	NNE	1	p	1002·1	*	46	0	W	1	0	2	54	45
	Rome	1006·1	54	SE	1	p	998·1	*	46	+1	N	1	c	5	55	48
	Viesti	1007·5	50	NE	2	b	999·1	*	50	0	SSW	1	0	–	55	48
	Brindisi	1007·5	54	WSW	1	b	1001·4	*	50	+2	SE	1	0	–	?	48
	Cagliari						1007·0	*	55	0	NW	3	c	–	61	50
	Palermo	1012·3	59	SSW	2	c	1003·9	*	63	+8	SSE	3	b	8	63	54
	Tripoli						1013·3	*	63	+4	SW	6	b	–	72	50
	Algiers	1019·0	59	WSW	5	b	1017·3	-1	59	+2	WSW	3	bc	–	68	54
SWEDEN.	Hernösand ...	999·4	21	NW	2	c	1011·1	*	18	+11	NNW	2	b	*	*	*
	Stockholm ...	1001·6	19	SE	2	0	1011·4	*	18	+2	NW	2	b	*	*	*
	Wisby	1001·0	23	NW	4	0	1008·1	*	23	-5	N	6	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1021·0	28	+1	–	0	b
Reykjavik	1019·9	34	-2	E	3	c
Vestmanna	1020·4	34	+1	E	8	c
Seydisfjord	1025·2	25	-5	–	0	b
Thorshavn	1027·0	33	-3	–	0	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	–	–	48	26	b. bc. o	–	5·4
	Banff	1	–	43	34	b. bc. c	c. bc	3·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	–	–	43	32	bc. b	bc. b	7·2
	Skegness	Trace	–	39	35	o	o. bc	0·0
Eng. N.W.	Morecambe	–	–	45	34	–	–	7·2
	Southport	–	–	45	30	b. bc	bc. b. bc	8·7
Midlands.	Leamington Spa							
	Malvern	5	Trace	46	32	bc	bc	6·9
	Ross-on-Wye	4	–	48	33	orm	c. bc	5·1
Wales.	Rhyl	–	–	43	33	bc	b. bc	10·0
	Colwyn Bay...	*	*	43	33	bc	bc	9·4
	Llandudno	*	*	44	35	b	b	9·6
	Aberystwyth	*	*	46	41	ch. b	bc. c	9·5
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	–	–	43	31	o. c. bc	bc. c. o	1·5
	Felixstowe	Trace	–	45	30	of. bcm	bc. cm	0·7
	Walton-on-Naze							
	Southend-on-Sea	–	–	45	31	bz	b. bc. c	4·1
England, S.E.	Margate	–	–	40	33	o	bc. c. c	0·7
	Ramsgate							
	Hastings	–	–	47	32	o. c. b	b	6·7
	Eastbourne	–	–	47	32	b	b. bc	6·5
	Seaford	*	*	48	32	bc	c	6·4
	Brighton	–	–	47	34	bcz	bc. cz.	5·7
	Worthing	–	–	42	34	b	bc	5·6
	Littlehampton	–	–	47	34	o. b	b	6·1
	Bognor	*	*	49	30	bc	bc	6·3
	Bournemouth	–	–	50	37	c. b	b	8·3
England. S.W.	Weymouth...	*	*	50	37	c. b.	b bcz.	6·5
	Torquay	–	–	50	39	bc. b	b	8·1
	Paignton	*	*					
	Penzance	–	–	51	40	b	b	0·4
	Newquay	–	–	46	41	b	b	9·3
	Bude	–	–	50	37	b	b	9·3
	Ilfracombe	–	–	46	42	b	bz	9·5
	Weston-s-Mare	–	–	48	33	b	bm	8·5

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

16th and 17th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.8	12.2	5.56
	6.5	12.2	5.58
Greenwich	6.14	12.9	6.4
	6.12	12.9	6.6
Wick	6.29	12.21	6.14
	6.26	12.21	6.16
Valencia	6.55	12.50	6.45
	6.53	12.50	6.46

NOTES ON YESTERDAY'S WEATHER.

The day was bright nearly everywhere, with sunshine measurements ranging up to 10 4 hrs. at Scilly. A little rain fell in the North. Wind freshened considerably on our N.W. coast during the night.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 76

Saturday. 17th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	1013·6	45	W	3	omr	1013·1	0	45	+6	W	4	–	om	3	16	45	38	omr	omr	om	*
	Deerness (Orkney)	1015·4	44	WSW	5	df	1015·9	*	46	+9	SW	3	–	o	2	12	48	37	r.	rf.d	od	0·0
	Stornoway ...	1019·1	49	WSW	6	odq	1018·6	-3	46	+2	SSW	6	–	orq	5	4	51	44	orq	odq	orq	0·0
	Castlebay (Barra Isd.)	1023·0	49	SW	5	o	1018·3	-2	44	o	SW	5	–	o	6	0·3	49	47	dr.	ro	op·o	1·0
	Glasgow ...	1026·0	49	SW	2	om	1023·2	-1	46	+6	SW	4	–	om	*	1	50	40	omp	om	omd po	0·1
	Eskdalemuir ...	1028·0	42	S	4	ome	1025·3	0	41	+6	SW	6	W	o	*	1	48	35	om. odm	ome	ome.co	0·0
	Malin Head ...	1026·7	48	WSW	4	cq	1021·1	-2	47	+4	SSW	5	SW	cq	5	–	52	42	bcq	cq	cq	1·8
	Blacksod Point	1025·7	48	S	5	ome	1021·0	?	48	+2	S	7	–	ome	5	0·3	48	40	ome	ome	ome	*
	Valencia ...	1030·8	49	SSE	4	o	1027·6	-1	49	+1	S	5	–	o	4	0·3	50	48	od	od	o	0·0
	Roche's Point	1034·0	46	SW	3	o	1030·6	*	47	+1	SSW	4	–	o	4	0·1	48	45	ome	o	o	*
	Birr Castle ...	1030·7	50	SW	2	o	1026·9	*	48	+3	S	2	S	c	*	–	58	43	c.	co	c	6·7
	Donaghadee ...	1029·3	55	SW	4	cm	1024·6	-2	46	+4	SW	4	–	ogm	3	trace	58	41	cmq	cmq	gm.ogm	*
	Liverpool (Bidston)	1031·0	46	SW	4	bc	1029·4	0	42	+6	SW	1	–	b	2	–	49	36	o.	oc.	d	0·0
	Holyhead ...	1032·0	46	SW	6	cqq	1028·8	-1	45	+3	SW	5	SW	cq	5	7	50	42	op.c.o	o.cq	b.o.cf	2·3
	Pembroke (St. Ann's)	1036·2	44	S	3	b	1032·6	-1	43	+1	S	3	S	bc	3	–	46	41	o.c	c.	bq.b.o	2·3
	Scilly (St. Mary's)	1037·4	49	SSW	2	bm	1034·3	-1	46	+1	SW	3	SW	b	4	–	52	45	c.bc	bcm	b bc	9·0
	Falmouth ...	1038·0	47	SW	2	bq	1034·8	+1	41	+5	SSW	1	–	bc	*	–	52	34	bc	bc.b	b.bcw	7·5
	Jersey (St. Aubin)	1038·9	40	–	0	fc	1036·5	*	35	+1	SE	1	–	bm	1	Trace	45	32	b.ofe	fe	f.bwxm	3·8
	Portland Bill ...	1038·0	43	WSW	4	c	1034·9	-1	43	+7	WSW	3	SW	bc	3	–	44	36	bc.c	bc.c	o.c.bc	*
	Dungeness ...	1037·0	41	SW	4	o	1033·6	-1	40	+4	SW	4	–	b	4	–	43	36	o	o	o.c.b	*
	Dover	1036·2	39	SW	6	o	1033·6	?	40	+4	SW	2	–	b	2	–	41	37	o.c.bc.c	c.o	b	1·3
	Wick	1018·0	50	SW	3	o	1017·0	-3	47	+8	W	2	W	c	3	4	52	38	orm	opm	bcm.c	*
	Nairn	1020·6	51	W	2	cq	1019·8	*	48	+6	WSW	1	–	bc	1	0·2	52	41	cpqq	cq	cq.bc	0·0
	Aberdeen	1021·0	48	SSW	3	o	1020·3	0	45	+8	SSW	1	–	om	2	1	49	36	o.ro	o	oc.cm	0·0
	Leith	1024·8	52	W	2	c	1021·7	+1	49	+8	WSW	2	W	c	3	–	52	41	ogwo	ou.cq.c	cu.ogc	*
	Tynemouth ...	1027·2	48	W	2	cm	1025·5	-1	48	+13	–	0	–	ogm	3	–	48	36	om	om	om	*
	Spurn Head ...	1031·0	44	W	4	c	1028·4	-2	39	+5	WNW	4	–	c	4	–	45	32	cm	c	bc	0·0
	Yarmouth ...	1033·4	45	W	3	c	1030·3	-1	38	+7	WNW	4	–	cm	2	–	45	30	bcm	cm	cm bcq	1·0
	Clacton-on-Sea	1035·0	42	SW	3	o	1032·0	-1	38	+1	W	3	–	b	2	–	44	36	co	o.	o.cbc.b	0·8
	Nottingham ...	1032·7	47	W	3	c	1030·4	*	43	+12	SW	4	SW	c	*	–	51	30	oc.	o.c	c.b	0·4
	Benson (Oxon.) ...	1035·7	45	SW	2	c	1033·5	o	34	+1	—	0	–	b	*	–	48	32	o.co	c.	b	*
	Sth Farnborough	1036·9	45	WSW	3	o	1033·7	-1	34	+1	WSW	1	W	bx	*	–	49	32	bc.o.c	co	o. bx	1·2
	London (Kew Obsy.)	1036·1	47	WSW	3	o	1033·8	-1	37	-1	WSW	2	–	bm	*	–	49	36	om.o	o.co	o.bc.bmq	0·4
NORTHERN EUROPE.	Spitsbergen ...	1023·3	-17	SE	2	b	1023·4	+½	-42	-2	—	0	*	b	*	*	-40	-51	UPPER AIR. South Farnborough. Pilot Balloon Ascent at 7 h. G.t.			
	Vardö	1012·4	12	N	2	bc	1011·1	-1	14	-2	N	2	–	bc	4	*	16	7	2,400 metres	WNW	7 m/s	
	Bodö	1013·3	19	E	2	b	1015·3	o	18	-1	E	1	–	c	1	–	23	12	2,100 "	WNW	7 m/s	
	Christiansund ...	1016·6	36	W	3	o	1015·3	o	32	o	—	o	–	b	4	Trace	37	30	1,800 "	WNW	8 m/s	
	Skudesnaes ...	1017·6	36	SE	4	r	1014·1	o	36	+2	E	3	–	r	3	10	36	32	1,500 "	WNW	9 m/s	
	Færder (X'tania Fjord)	1023·1	30	SW	4	o	1016·4	+2	30	+3	NW	2	–	m	2	2	30	27	1,200 "	W'N	9 m/s	
	The Scaw (Skagen)	1027·9	32	SW	1	s	1016·2	+1	30	o	—	o	–	o	o	?	34	27	900 "	W	9 m/s	
	Blaavands Huk	1029·1	32	SW	3	s	1018·0	+2	36	+2	WNW	4	–	f	4	2	36	28	600 "	W	13 m/s	
	Copenhagen ...	1030·0	34	W	3	o	1013·5	-3	34	+7	—	o	–	m	*	?	36	27	300 "	W'S	7 m/s	
	Bornholm ...	1029·3	30	WSW	3	m	1015·9	-5	30	+3	SSW	3	–	s	1	4	30	27	Surface	SW'W	3 m/s	
FRANCE, &c.	The Helder ...	1033·2	36	SSW	4	b	1027·8	o	37	+3	W	3	–	b	1	Trace	39	34				
	C. Gris Nez ...	1034·1	37	SSW	3	o	1033·3	-1	40	+6	SW	4	*	o	3	–	41	34				
	La Hêve	1038·0	36	E	3	m	1037·3	*	38	+6	S	2	*	m	1	–	41	32				
	Brest (St. Mathieu)	1039·5	45	SSW	3	b	1036·4	-1	42	+1	SE	4	*	b	5	–	50	41				
	Rochefort (Ile d'Aix)	1038·6	46	NE	3	bc	1037·5	o	37	+1	E	2	*	b	*	–	55	36				
	Biarritz	1035·5	49	N	4	b	1034·7	o	37	o	SE	2	*	b	2	–	52	34				
	Paris	1039·0	39	NE	1	b	1037·1	-1	36	+6	SE	1	–	c	*	–	48	30	GALES Duration and Extreme Force in British Islands.			
	Belfort	1039·1	35	E	4	b	1039·5	*	28	+1	—	o	*	o	*	—	39	26				
	Lyons	1034·4	38	N	6	b	1037·6	*	32	o	—	o	*	b	*	—	42	29				
	Nice	1025·6	50	E	5	b	1032·6	+3	46	-5	—	o	*	b	4	–	63	37				
	Perpignan ...	1029·3	48	NW	6	b	1034·4	+2	39	-2	SW	1	NE	b	*	–	54	37				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1031·4	59	ENE	3	b	1032·8	+2	48	o	—	o	E	b	1	—	61	43				
	Madrid	1028·4	55	NE	2	b	1034·6	+2	37	-4	NE	1	NE	bc	*	–	57	34				
	Lisbon																					
	Azores (Horta) ...	1023·1	*	WSW	5	b	1028·8	+1	52	-4	N	3	*	b	2	—	63	52				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1019·3	+1	63	+4	—	o	–	b	4	–	70	48				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F	Min. °F	Min. on Grass. °F	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	68	77		51	38	32	—	o	c	b
CITY (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	62	79	0·5	50	37	32	—	cm	o.c	oc.bcm
CAMDEN SQ. (British Rainfall) ..	63	83	0·6	50	36	32	–	o.c	c	*
HAMPSTEAD (Reservoir)	*	88	-0·2	46	34	27	—	c.o	.o	bxm
S. KENSINGTON (Museum Grounds)	*	82	0·5	49	38	33	–	o.c	c.bc.b	bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

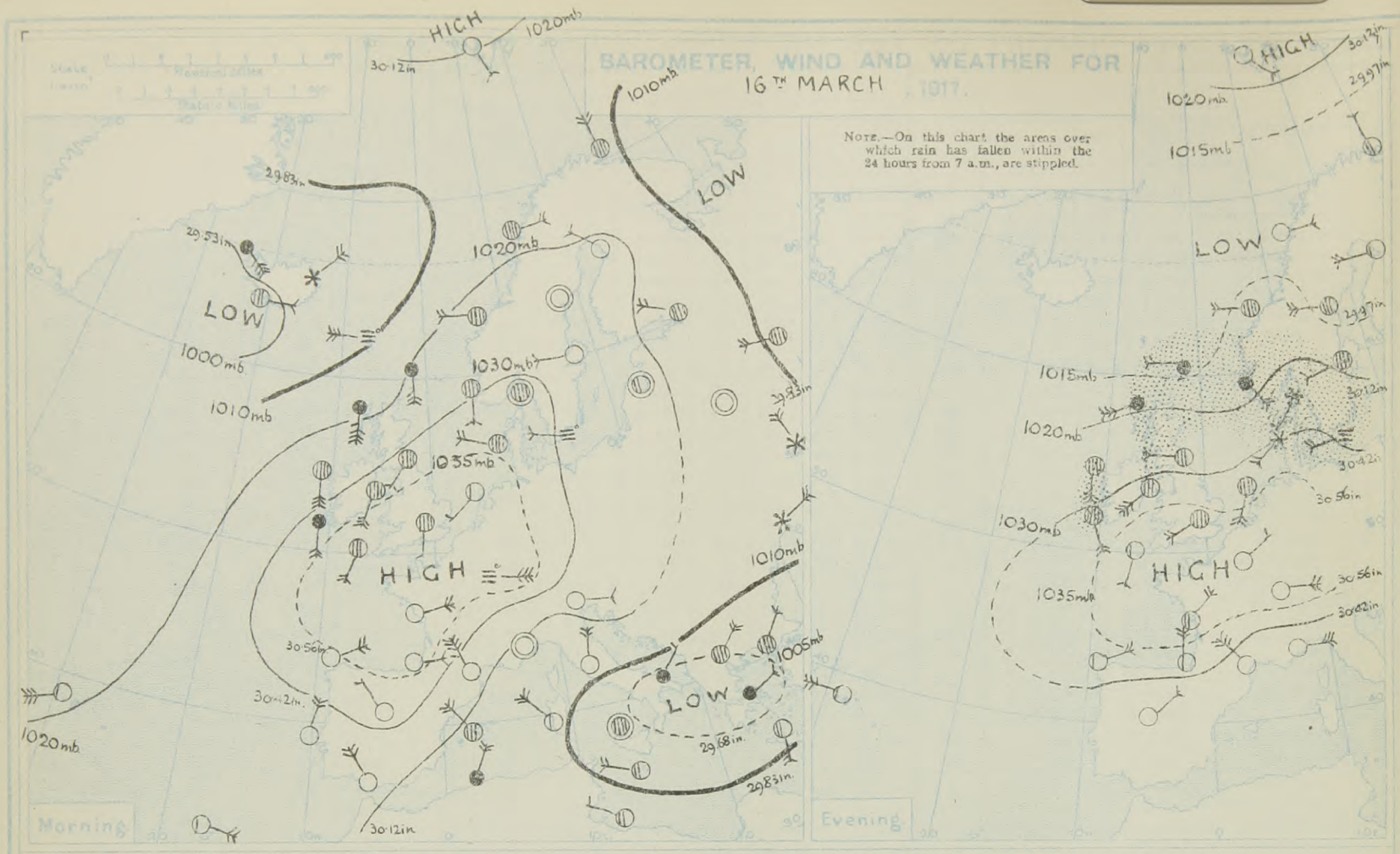
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
583	13·7	38·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECAST FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

Western Channel and Bay 11

0 (a, b) 1 — Fresh South-West winds. Unsettled, some rain. Rather mild.

2 (a, b) 3 4 (a, b) 5 — Moderate or fresh winds between West and South-West. Fair weather. Normal day temperature. Rather cold at night.

6 (a, b) 7 (a, b) — Fresh or strong winds between South and South-West. Unsettled, some rain. Normal temperature.

8 (a, b) — Moderate or fresh South or South-West winds Fair today, less fair later. Normal temperature.

9 (a, b) 10 (a, b) — As Nos. 6 and 7.

11 — Moderate winds between South-East and South-West, moderate sea, fair to fine weather.

FURTHER OUTLOOK.

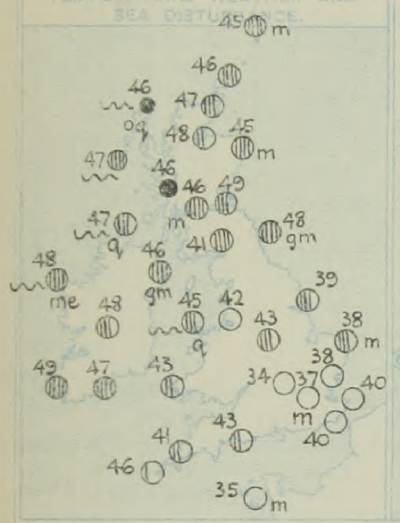
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 17TH MARCH, 1917.

GENERAL INFERENCE.

No material change is anticipated in the general conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

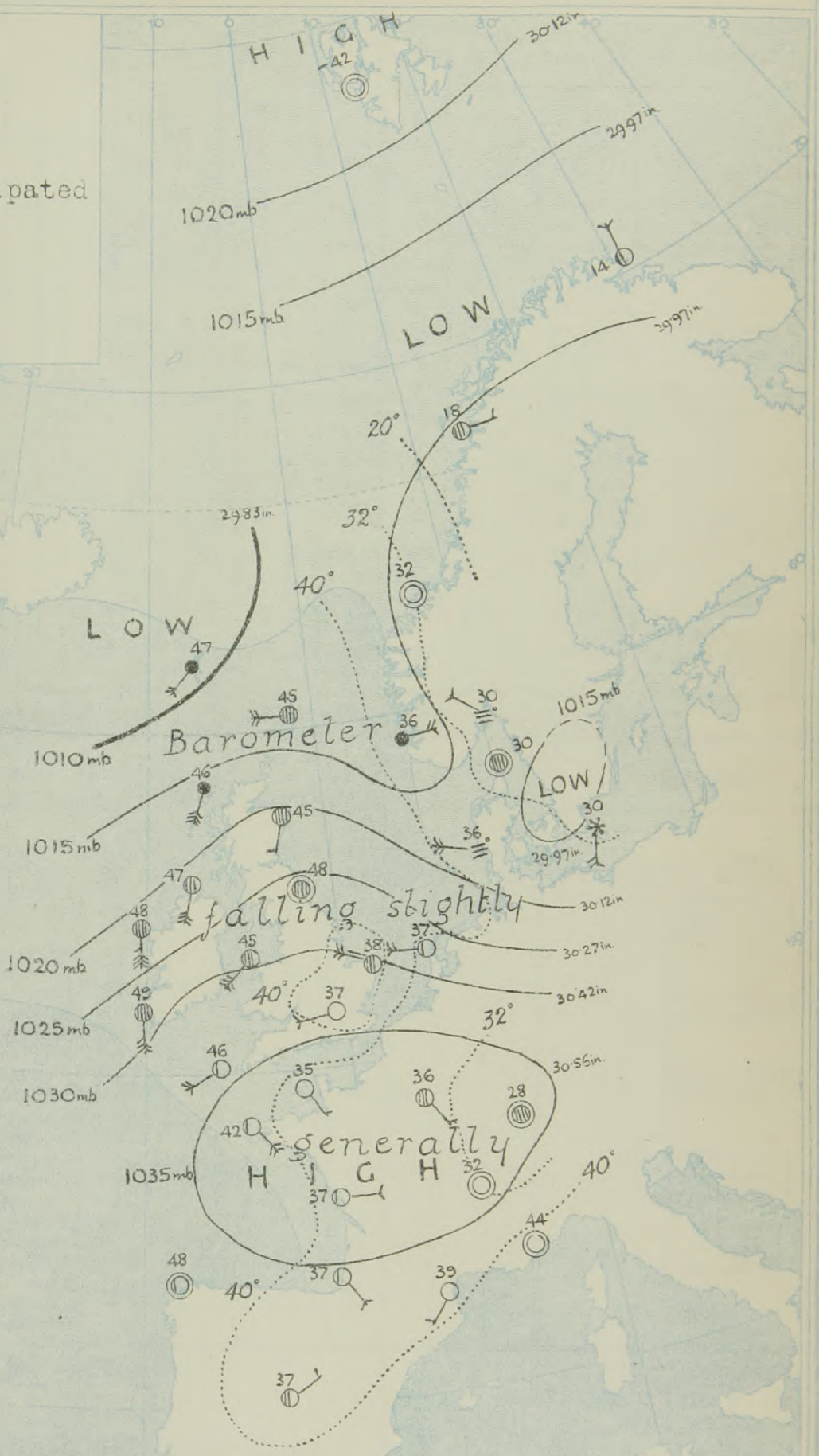
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky 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 : 10°
Nautical Miles
Statute Miles

Normal Temperature of the Sea

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

Scale of Tints for MARCH

Issue No. 20,204.

DAILY WEATHER REPORT.

Saturday, 17th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	1000·0	0	NE	4	s									*	
	Gorki	1005·9	19	W	2	o	1015·1	+1	5		–	o	b	–	*	5
	Velieki Luki ...						1018·0	*	3	- 13	WSW	4	b	–	*	3
	Hangö														*	
	Riga						1023·9	+5	14		–	o	bc	–	*	14
	Petrograd ...	1005·0	10	NE	4	bc	1015·8	+7	1	+1	NW	3	o	1	14	-2
	Moscow	1004·3	19	WNW	3	o	1008·4	+2	12	- 7	W	3	o	–	*	10
	Kiev														*	
	Kharkov ...	1007·8	27	–	o	b	1011·5	+6	23	o	NW	4	s	–	*	23
	Kishinev ...	1006·6	34	–	o	s	1019·0	+10	27	- 7	N	4	s	?	*	27
	Elisabetgrad ...	1007·3	28	–	o	bc	1015·5	+8	25	- 5	N	5	o	–	*	25
	Nicolaiev ...	1006·9	32	N	2	o	1013·9	*	32	+ 4	NNE	5	s	–	*	28
	Odessa						1015·4	+8	32	+ 2	ENE	4	s	1	*	30
	Tarkhankout ...	1006·9	36	N	3	o		*							*	
	Soukhoum ...	1005·2	52	–	o	bc	1007·9	+3	55	+23	–	o	o	–	*	*
Mediterranean.	Venice	1011·7	52	ESE	1	bc	1022·9	*	41	- 5	E	2	b	2	61	39
	Pesaro	1009·9	50	N	3	bc	1021·8	*	39	- 7	NE	1	c	Trace	54	37
	Rome	1004·5	52	N	3	bc	1011·5	*	45	- 1	N	4	b	–	57	43
	Viesti	1003·4	52	NE	1	o	1012·3	*	48	- 2	NE	4	o	4	57	48
	Brindisi	1000·9	52	NW	1	b	1003·9	*	54	+4	NE	1	r	2	61	50
	Cagliari							*	55	o	NW	4	b	–	63	48
	Palermo	1003·9	54	ESE	3	b	1008·5	*	52	- 11	–	o	o	27	63	48
	Tripoli						1013·1	*	59	- 4	WNW	1	bc	–	68	55
	Algiers	1016·7	57	NW	1	b	1017·7	+4	48	- 11	NNE	4	r	3	66	48
Sweden.	Hernösand ...	1016·2	21	–	o	c	1025·3	*	9	- 9	–	o	b	*	*	*
	Stockholm ...	1015·9	27	NE	2	o	1029·7	*	12	- 6	W	2	b	*	*	*
	Wisby	1017·1	30	NNW	4	c	1026·4	*	25	+2	NE	2	b	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1001·0	36	+6	SE	7	r
Reykjavik	997·7	41	+7	ESE	3	b
Vestmanna	999·9	43	+9	E	2	c
Seydisfjord	1005·2	34	+9	NE	4	s
Thorshavn	1008·7	46	+13	W	5	m

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temp. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	Trace	46	32	od	–	0·0
	Banff	6	–	52	33	or.c.bc	bc	0·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews	–	–	49	33	o	c	0·0
Eng. N.E.	Harrogate	–	1	47	30	o.bc	c.or.o	1·6
	Skegness	–	–	47	28	o	o	0·0
Eng. N.W.	Morecambe							
	Southport	–	–	46	34	o	o.b	0·0
Midlands.	Leamington Spa							
	Malvern	–	–	48	31	c	bc.b	0·6
	Ross-on-Wye	–	–	50	30	bcm	c.bc	0·0
Wales.	Rhyl	–	–	49	31	o.c	c.bc.b	1·0
	Colwyn Bay...	*	*	50	34	c	bc	0·9
	Llandudno	*	*	50	35	c	c	0·5
	Aberystwyth	*	*	46	36	o.c	c	1·0
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temp. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	–	–	45	29	bc.c	c.o	1·5
	Felixstowe	–	–	44	32	bc.c	cm	1·2
	Walton-on-Naze	–	–	43	34	b.bz.bc	bc.b	0·6
	Southend-on-Sea	–	–	45	35	o.c	o	0·3
England, S.E.	Margate	–	–	45	34	bc.c	c	1·2
	Ramsgate							
	Hastings	–	–	42	36	o.bc	bc.o	2·4
	Eastbourne	–	–	43	37	o.b.bc	bc.o	2·2
	Seaford	*	*	43	36	b	c	2·0
	Brighton	–	–	48	36	c	c	0·9
	Worthing	–	–	45	35	c	c	0·6
	Littlehampton	–	–	43	34	–	–	1·5
	Bognor	*	*					
	Bournemouth	–	–	48	26	c	c	2·2
England, S.W.	Weymouth	*	*	47	29	bcz.c	c.bcz	0·8
	Torquay	–	–	50	34	o	o.c.bc.b	4·3
	Paignton	*	*					
	Penzance	–	–	52	38	bz	bz	9·0
	Newquay	–	–	52	33	b	b	8·0
	Bude	–	–	51	35	bc	bc	4·2
	Ilfracombe	–	–	51	40	bcz	bcz	1·2
	Weston-s-Mare	–	–	46	35	c	bc.c	0·1

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

17th and 18th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.5	12.2	5.58
	6.2	12.1	6.0
Greenwich	6.12	12.9	6.6
	6.9	12.8	6.7
Wick	6.26	12.21	6.16
	6.23	12.20	6.18
Valencia	6.53	12.50	6.46
	6.50	12.49	6.48

NOTES ON YESTERDAY'S WEATHER.

Good sunshine measurements were reported from a few stations in the W. and S.W. but generally the day was dull. Heavy rain fell at Lerwick. Temperature rose to 58° at Birr Castle and Donaghadee.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 77. Sunday 18th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	1011·5	46	W	4	m	1011·0	0	41	-4	WNW	6	W	bcq	4	5	46	40	fd	fd	bcqp	*
	Deerness (Orkney)	1014·5	48	W	4	c	1015·9	*	41	-5	W	5	W	c	4	1	50	41	o	opd.c	c	0·9
	Stornoway ...	1015·5	49	WSW	6	bcq	1021·1	+3	42	-4	WNW	4	–	bcq	4	2	53	40	or.cq	bcq	b.bcpq	4·0
	Castlebay (Barra Isd.)	1019·4	47	WSW	4	bc	1025·4	+2	45	-2	W	5	–	op	5	0·2	50	44	om	om.bc	bc.b.op	2·5
	Glasgow ...	1022·0	46	SW	3	omd	1026·4	+3	41	-5	WSW	3	NW	c	*	1	47	40	omdp	omdp	o.bz.c	0·0
	Eskdalemuir ...	1023·9	41	SSW	4	omd	1027·6	+4	39	-2	WSW	4	–	cp	*	6	44	38	o.bc.om	omq.or	odm.bc	0·0
	Malin Head ...	1021·9	46	W	5	bcmq	1028·5	+5	43	-4	WSW	5	SW	bcq	5	0·3	50	42	omq	bcmq	bcq	0·5
	Blacksod Point	1024·9	47	SW	3	bc	1032·9	–	44	-4	WNW	4	–	omp	3	1	50	41	om	bc	bcp.cp	*
	Valencia ...	1029·5	49	WSW	3	b	1037·5	+3	46	-3	WNW	3	NW	bc	4	4	52	44	or	ro.c.bc	bc	1·5
	Roche's Point	1029·6	48	WSW	2	p	1036·6	*	42	-5	NW	2	–	b	2	3	48	42	ome	dr	c.b	*
	Birr Castle ...	1026·7	50	W	1	o	1034·7	*	35	-13	WSW	1	–	c	*	2	52	35	o	op	o.cx	0·2
	Donaghadee ...	1023·0	50	WSW	4	omp	1029·6	+3	40	-6	W	4	W	bcmq	3	1	52	40	ogm	omt	bcmq	*
	Liverpool (Bidston)	1027·6	47	SW	4	o	1030·3	+3	41	-1	WSW	5	–	b	4	4	51	40	b	c.o	or.b	5·0
	Holyhead ...	1027·8	45	SSW	5	odm	1032·0	+3	42	-3	WNW	6	–	b	5	4	48	42	c.bc.c.o	o.c.o	odr.b	1·9
	Pembroke (St. Ann's)	1030·6	44	SSW	4	c	1034·4	+4	44	+1	W	4	–	b	4	2	47	41	bc.c	c	orf.bm	2·0
	Scilly (St. Mary's)	1033·2	48	SW	3	c	1037·0	+6	46	0	NNW	4	–	bm	4	0·2	52	45	bcm	bcm.c	bcf.bm	5·9
	Falmouth ...	1033·1	47	SSW	3	bc	1035·8	+5	44	+3	NW	2	–	b	*	–	53	41	bc	bc.b.bc	bc.bw	6·5
	Jersey (St. Aubin)	1034·5	47	SSE	1	b	1033·6	*	45	+10	W	2	–	oe	1	Trace	53	34	fb	b	b.od.oe	9·3
	Portland Bill ...	1033·4	43	WSW	3	bc	1032·4	+1	43	0	NW	3	NW	bc	3	–	46	42	bc	bc	bc.c	*
	Dungeness ...	1031·9	43	SW	4	bc	1029·3	-1	41	+1	WSW	4	SW	bc	3	–	47	39	bc	c	bc.o.bc	*
	Dover	1033·3	47	WSW	4	bc	1029·7	0	43	+3	NW	3	NW	o	2	–	53	39	b	b.bc	bc.o.c	8·7
	Wick	1015·9	49	W	1	c	1017·8	+3	40	-7	WSW	3	–	bc	3	0·3	54	38	cm.o	o.cm	bm.bcp	*
	Nairn	1017·7	49	WSW	2	c	1021·5	*	42	-6	W	3	–	cg	2	1	58	40	bcq	bcp.c	cqp	1·7
	Aberdeen	1018·6	52	W	2	c	1021·8	+2	41	-4	SSW	1	W	bc	2	–	52	40	c.o	o.c	bc.b	0·6
	Leith	1020·6	49	W	3	p	1026·5	+2	41	-8	W	2	NW	bc	3	1	52	41	cu.bc.c	c.op.or	rcp.bc	*
	Tynemouth ...	1023·9	48	SW	3	om	1026·0	+2	42	-6	W	2	–	b	2	–	54	41	cm	cmq	b	*
	Spurn Head ...	1026·7	49	WNW	2	bc	1027·6	0	40	+1	WNW	4	–	bcpm	3	1	53	38	bcm	c	c	4·9
	Yarmouth ...	1028·5	52	WNW	2	bc	1027·4	+1	42	+1	NNW	4	–	omp	2	–	57	37	bcm	bcm	bcqm	8·6
	Clacton-on-Sea	1030·1	48	W	2	c	1028·7	0	42	+4	WNW	3	N	c	2	–	55	37	b.bc	bc.c	c.bc.c	8·4
	Nottingham ...	1028·3	51	SW	4	bc	1029·9	*	45	+2	WNW	3	NW	c	*	1	57	42	c	c.bc	bc	4·5
	Benson (Oxon.) ...	1031·3	49	W	1	bc	1031·2	+2	38	+4	–	0	–	b	*	–	56	34	b	b	b	*
	Sth Farnborough	1031·3	48	SW	3	c	1030·7	+2	40	+6	W	1	–	b	*	–	58	34	bc	c	c.b.bc.b	7·7
	London (Kew Obsy.)	1031·5	51	SW	3	cm	1031·0	+2	41	+4	WSW	2	–	o	*	–	56	37	bm.bc.c	c.o.om.cm	cm.b.o	6·6
NORTHERN EUROPE.	Spitsbergen ...	1023·8	-44	S	2	b	1021·7	0	-44	-2	S	3	*	b	*	*	-22	-49				
	Vardö	1012·3	12	N	3	s	1008·4	-2	9	-5	N	3	–	s	5	*	14	9				
	Bodö	1017·5	18	E	2	b	1008·3	-1	18	0	E	4	NE	b	2	–	23	14				
	Christiansund ...	1010·3	39	SSE	1	o	1001·1	-3	39	+7	SW	4	–	s	4	1	41	30				
	Skudesnaes ...	1014·9	39	–	0	f	1011·5	-2	41	+5	W	6	–	r	4	9	41	34				
	Færder (X'tania Fjord)	1018·0	30	SSW	2	o	1006·3	-5	32	+2	W	5	–	b	3	?	?	30				
	The Scaw (Skagen)	1020·3	30	S	1	s	1009·7	-3	37	+7	W	3	–	b	3	2	37	30				
	Blaavands Huk	1021·3	36	WNW	3	o	1017·3	-1	36	0	WNW	3	–	f	3	Trace	37	32				
	Copenhagen ...	?1021·0	34	W	1	m	1018·7	-4	36	+2	W	3	–	r	*	3	36	32				
	Bornholm ...	1020·6	30	NNE	1	m	1013·6	-7	32	+2	WSW	6	–	f	1	–	34	28				
FRANCE, &c.	The Helder ...	1028·3	39	SW	3	b	1025·0	0	39	+2	WSW	3	–	o	1	–	43	37				
	C. Gris Nez ...	1032·3	42	SW	5	c	1029·6	+1	41	+1	WSW	4	*	o	3	–	46	39				
	La Hève	1036·1	46	SSW	3	b	?	*	40	+2	W	3	*	o	2	–	57	36				
	Brest (St. Mathieu)	1036·4	47	S	3	bc	1036·4	+2	47	+5	NW	3	*	o	3	–	52	42				
	Rochefort (Ile d'Aix)	1035·6	51	NNW	1	b	1034·1	0	42	+5	NNE	2	*	b	*	–	61	37				
	Biarritz	1032·6	50	NE	2	b	1034·3	+2	46	+9	SSE	2	*	b	2	–	57	37.				
	Paris	1034·6	50	SSW	2	b	1032·8	0	35	-1	SSW	1	SW	bc	*	–	57	32				
	Belfort	1036·4	44	W	2	b	1034·6	*	31	+3	–	0	*	m	*	–	52	28				
	Lyons	1035·1	45	NNE	1	b	1033·2	*	37	+5	–	0	*	b	*	–	51	32				
	Nice	1031·1	44	–	0	b	1028·7	-2	46	+2	–	0	*	b	3	–	54	37				
	Perpignan ...	1032·0	46	–	0	b	1030·1	0	45	+6	SW	1	–	b	*	–	57	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1033·2	57	NNW	2	b	1031·9	+3	50	+2	NE	3	–	o	2	–	59	46				
	Madrid	1031·0	55	–	0	b	1033·7	+1	41	+4	–	0	NE	b	*	–	57	37				
	Lisbon	1038·3	63	NW	3	b	1031·4	+1	50	+2	NNE	2	–	b	5	–	64	48				
	Azores (Horta) ...	1027·8	*	–	0	o	1027·7	+1	57	+5	SSE	4	*	c	3	–	64	52				
	Madeira	1023·7	64	NE	4	b	1025·7	+3	54	0	NE	4	–	b	4	–	64	54				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1013·5	–	57	+3	NE	6	–	o	8	–	57	52				
	Limassol	*	*	*	*	*	1016·8	0	55	-8	WNW	1	W	o	3	–	70	43				
	Alexandria ...	1021·0	63	NNE	4	bc	1021·3	+1	64	0	WNW	2	NE	b	1	–	78	56				
	Cairo (Helwan) ...	1018·9	72	N	3	b	1019·4	+1	63	+2	NE	3	W	c	*	–	85	65				

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

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	41	75	8·1	58	39	33	–	b	b.c	c
CITY (Bunhill Row)	*	*	5.5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	47*	80	7·0	59	42	35	–	bc	bc	bcu
CAMDEN SQ. (British Rainfall) ..	52	74	6·6	57	39	34	–	b.bc	b.bc	*
HAMPSTEAD (Reservoir)	*	78	7·1	56	37	28	–	bcm	bc	bcx
S. KENSINGTON (Museum Grounds)	*	67	6.3	58	40	36	–	bc	bc	bc
RICHMOND PARK	*	*	*	*	*	*	*	*	*	*

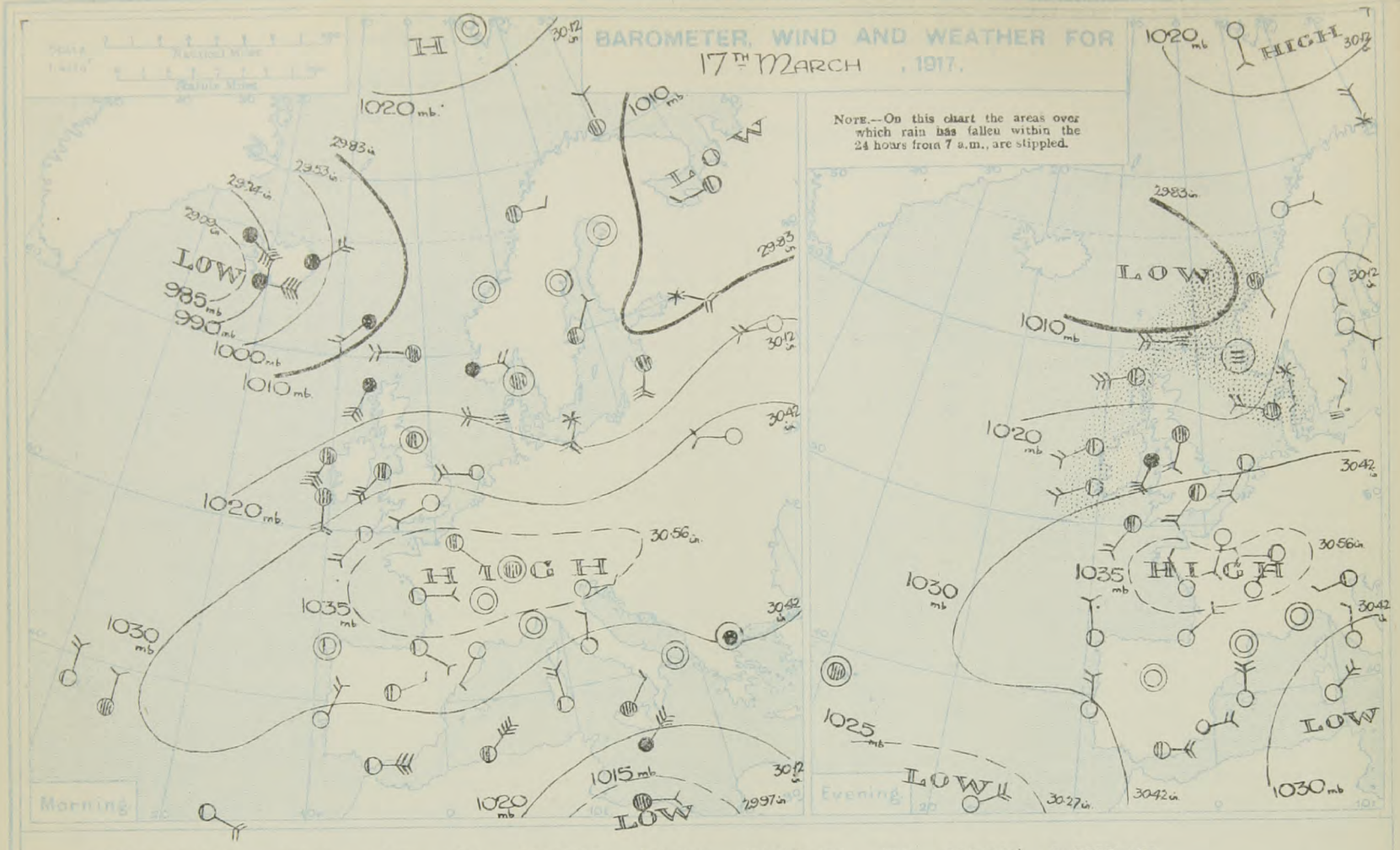
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
861	20·1	46·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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.

No Warnings Issued.

0 (a, b), 1 — Strong West winds; moderate temperature; fair, but some showers.

2 (a, b), 3, 4 (a, b, c), 5 — Moderate or fresh winds from between West and North-West; moderate temperature; fair generally.

6 (a, b), 7 (a) — Fresh or strong winds from between West and North-West; moderate temperature; fair, but some showers.

7 (b), 8 (a, b), 9 (a, b), 10 (a, b) — Moderate or fresh winds from West or North-West, moderating later; moderate temperature; fair generally.

11 — Moderate North-West winds, decreasing; moderate to slight sea; fine weather.

Western Channel and Bay

FURTHER OUTLOOK.

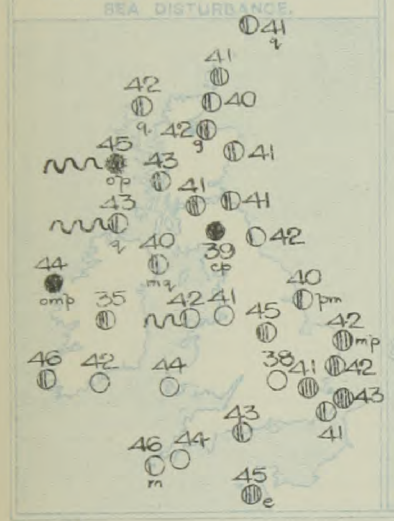
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Sunday, 18TH MARCH, 1917.

GENERAL INFERENCE.

An anticyclone is spreading up from the South-West.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

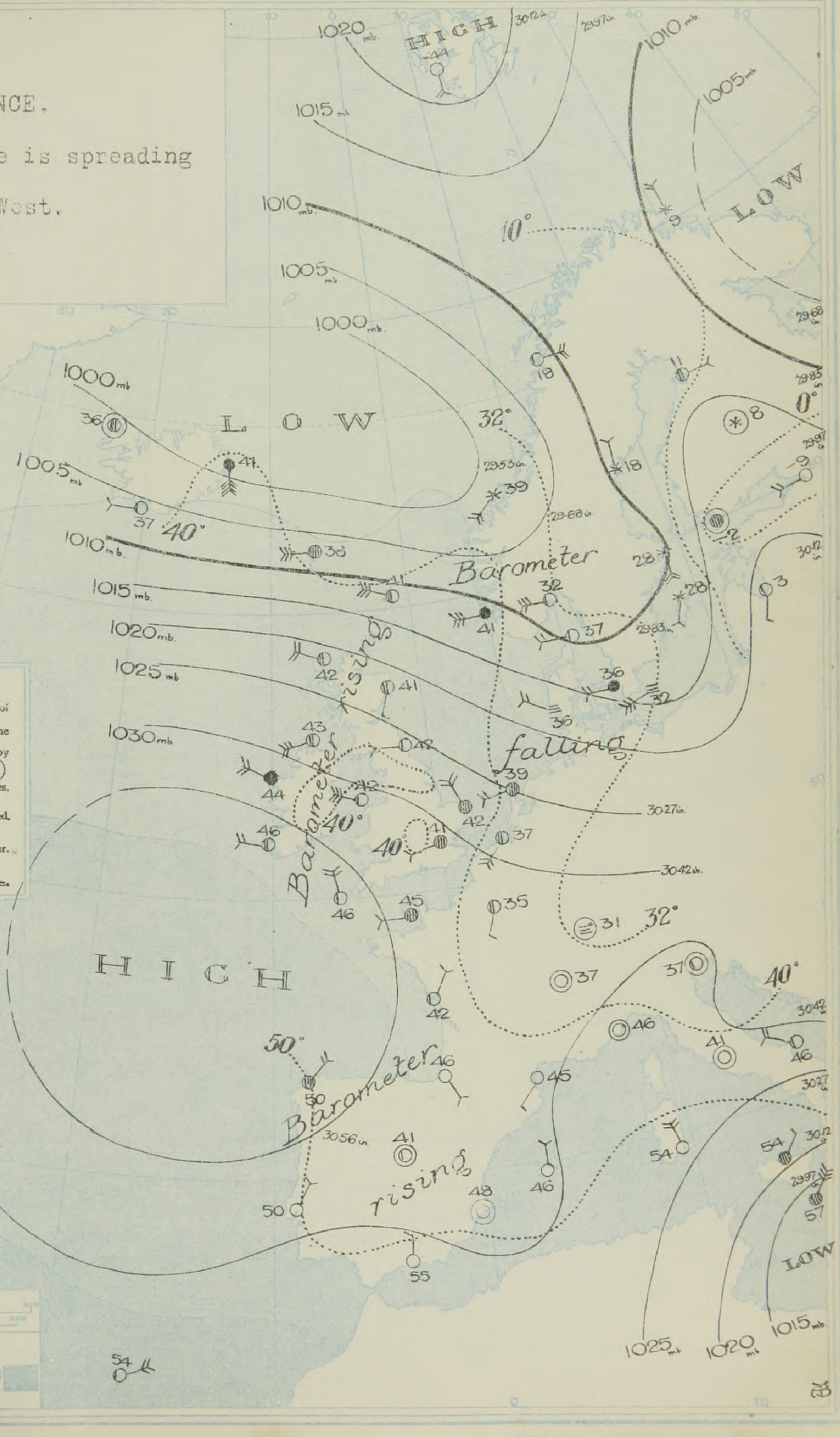
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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

WEATHER.—Shown by the following symbols:—

◯ clear sky. ◐ sky ½ clouded. ◍ sky ⅞ 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 MARCH.

Issue No. 20,205 — DAILY WEATHER REPORT. — Sunday, 18th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1010·7	-8	NW	2	b	1007·4	+1	-6	-	W	1	bc	-	*	-13
	Gorki						1026·4	0	-8	-13	-	0	b	-	*	-8
	Velieki Luki ...						1021·5	*	-2	-5	S	3	0	-	*	-4
	Hangö	1022·4	19	WNW	3	c	1009·2	-5	21	-	WNW	3	0	1	*	-6
	Riga	1029·9	9	-	0	b	1016·4	-9	18	+4	SW	5	0	-	*	5
	Petrograd ...	1022·1	1	NW	3	b	1008·6	-2	7	+6	SE	4	5	1	14	-4
	Moscow						1020·4	+1	1	-11	WNW	3	0	-	*	0
	Kiev	1027·4	19	N	5	5	1034·1	+1	0	-	NW	2	b	1	*	0
	Kharkov ...	1024·4	9	-	0	b	1028·8	+4	-2	-25	NW	2	b	-	*	-2
	Kishinev ...														*	
	Elisabetgrad ...	1028·7	14	NW	3	b	1033·0	+8	5	-20	NNW	2	b	-	*	1
	Nicolaiev ...	1030·7	19	NNE	3	b	1033·3	*	16	-16	NNE	4	b	-	*	16
	Odessa	1030·1	21	N	4	b	1033·6	+4	19	-13	ENE	3	b	-	*	16
	Tarkhankout...							*							*	
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1032·1	43	ESE	3	b	1035·4	*	37	-4	E	1	b	-	48	34
	Pesaro	1030·5	41	ENE	1	b	1034·3	*	41	+2	NNE	5	b	-	45	39
	Rome	1022·3	45	NE	3	0	1027·5	*	43	-2	N	1	b	-	55	37
	Viesti	1023·9	46	NE	4	c	1029·0	*	45	-3	NE	2	c	-	50	43
	Brindisi	1019·3	48	NE	5	0	1024·6	*	48	-6	-	0	0	-	54	48
	Cagliari	1017·8	57	NNW	4	b	1024·6	*	54	-1	NNW	3	b	-	63	48
	Palermo	1015·3	55	NE	1	b	1022·9	*	62	0	NE	1	0	-	63	46
	Tripoli						1013·1	*	59	0	E	2	0	Trace	63	54
	Algiers	1022·4	54	NNE	6	0	1027·9		52	+4	NE	1	c	5	54	48
SWEDEN.	Hernösand ...	1012·7	32	W	4	c	1019·1	*	10	+1	-	0	bc	*	*	*
	Stockholm ...	1023·3	23	SW	2	0	1015·7	*	21	+9	NNE	2	b	*	*	*
	Wisby	1025·7	25	W	2	0	1013·9	*	30	+5	WNW	4	bc	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	989·6	36	0	SE	8	r
Reykjavik	?985·0	45	+4	SSE	4	r
Vestmanna	990·6	37	-6	E	8	r
Seydisfjord	997·2	39	+5	NE	4	r
Thorshavn	1007·0	47	+1	SW	3	r.

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	3	5	48	42	or	-	0·0
	Banff	-	-	56	47	c.c	cu.o.c	0·5
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	-	-	52	42	o.c.bc.c	c.o	1·3
	Skegness	-	-	56	44	bc	bc.o	5·3
Eng. N.W.	Morecambe							
	Southport	-	-	51	40	o.c	c.o	5·8
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	-	-	56	39	c.bc	bc.cm	5·6
Wales.	Rhyl							
	Colwyn Bay...	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	46	37	o.c	bc.o	2·5
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft	-	-	57	37	bc	bc	9·0
	Felixstowe							
	Walton-on-Naze							
	Southend-on-Sea	-	-	56	37	b.bc	b.bc	7·7
England, S.E.	Margate	-	-	56	39	b	b	9·4
	Ramsgate							
	Hastings	-	-	51	39	b	b.bc	7·8
	Eastbourne	-	-	48	40	b	b	6·9
	Seaford	*	*	48	40	c	bc	4·0
	Brighton							
	Worthing							
	Littlehampton	-	-	46	39	—	—	7·8
	Bognor	*	*	48	39	bc	bc	7·4
	Bournemouth	-	-	52	36	b	b	8·7
England, S.W.	Weymouth...	*	*					
	Torquay							
	Paignton	*	*	53	39	bc	bc	7·9
	Penzance	-	-	52	44	bc	bc	6·4
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

18th and 19th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.2 / 6.0	12.1 / 12.1	6.0 / 6.2
Greenwich	6.9 / 6.7	12.8 / 12.8	6.7 / 6.9
Wick	6.23 / 6.20	12.20 / 12.20	6.18 / 6.20
Valencia	6.50 / 6.48	12.49 / 12.49	6.48 / 6.50

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

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

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 78

Monday 19TH March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING. 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.	Rainfall. Millimetres.	PAST 24 HOURS. Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·4	41	NW	6	cq	993·9	0	39	−2	WNW	6	NW	bcq	4	18	46	37	bcqp	bcqp	cqp.bc	*
	Deerness (Orkney)	1016·2	44	W	6	cpd	997·9	*	37	−4	W	4	W	b	4	5	46	34	c.	cd	cqp.cb	2·4
	Stornoway ...	1017·5	47	WSW	6	cpq	999·2	−8	37	−5	WSW	7	–	oprsq	6	6	48	30	bc.cq	cpq	oprsq	0·6
	Castlebay (Barra Isd.)	1021·5	47	SW	5	c	1005·2	−7	37	−8	W	7	–	ohspq	6	2	49	37	opc.om	om.c	rsphq	2·1
	Glasgow ...	1025·9	45	W	4	cm	1008·1	−4	39	−2	W	5	–	op	*	3	48	39	c	chp	oqp	2·1
	Eskdalemuir ...	1027·6	43	WSW	3	op	1009·5	−6	41	+2	WSW	6	–	bc	*	8	47	37	op.bc.o	oc.o.op	op.bc	3·4
	Malin Head ...	1025·6	46	WSW	6	bcmq	1010·4	−2	43	0	WNW	6	W	cmq	7	1	48	40	bz	bcmq	cqp	6·7
	Blacksod Point	1029·0	47	SW	5	cm	1017·1	*	43	−1	W	7	–	cmr	5	3	50	41	bc	bcm	cm.cm	*
	Valencia ...	1025·6	49	SSW	3	bc	1024·6	−5	50	+4	WSW	5	–	o	4	–	53	43	bc.o.b	bc.bc	c.bc.c.o	7·3
	Roche's Point	1026·7	50	WNW	3	o	1024·5	*	48	+6	W	3	–	o	3	–	53	42	bc.bc	bc.o	c.b.o	*
	Birr Castle ...	1033·1	48	WSW	2	c	1018·5	*	49	+14	W	4	–	r	*	2	53	35	cp	c	o.or	6·8
	Donaghadee ...	1028·6	48	NW	4	bcqm	1012·3	−4	45	+5	NW	5	NW	bcmq	3	1	51	40	bcq	bcq	bcmqp	*
	Liverpool (Bidston)	1030·9	44	WSW	4	b	1015·9	−8	45	+4	SW	6	SW	r	5	1	47	40	b	b	c.or	8·9
	Holyhead ...	1032·0	46	SW	5	cm	1017·0	−9	45	+3	SW	6	–	orqm	5	1	52	42	b.bc.b	b.bc.o	bc.op	9·3
	Pembroke (St. Ann's)	1034·9	44	NW	4	c	1023·9	−9	45	+1	SW	5	–	o	4	–	47	42	b.bc	bc.c	c.c.o	9·0
	Scilly (St. Mary's)	1038·4	48	NW	4	bm	1030·1	−4	48	+2	WNW	6	NW	c	5	–	53	44	bm	bm	bc.c	10·1
	Falmouth ...	1036·8	47	NW	3	b	1028·8	−5	46	+2	W	3	–	o	*	–	52	39	b	b	b.bc.o	10·2
	Jersey (St. Aubin)	1035·6	48	WNW	3	b	1030·1	*	44	−1	WSW	3	–	oe	2	–	52	39	oe.b	b	bw.oe	9·2
	Portland Bill ...	1034·2	45	W	3	bc	1026·4	−6	43	0	WSW	5	W	c	4	–	50	42	bc	bc	bc.c	*
	Dungeness ...	1031·3	50	NW	2	c	1024·1	−3	40	−1	SW	4	SW	c	4	–	50	38	bc	bc	b.bc	*
	Dover	1032·1	47	NW	3	bc	1023·8	−6	40	−3	SW	4	SW	o	4	–	55	39	o.c.bc.	bc.	bc.c.o	7·3
	Wick	1017·9	44	W	3	o	1000·1	−4	35	−6	W	2	–	bc	2	1	47	34	bcpmq	cq.cmq	opq.bc	*
	Nairn	1019·4	46	W	4	c	1002·7	*	35	−7	W	2	–	bc	2	2	50	34	cp.bc	cq	cqqpr	2·9
	Aberdeen	1021·4	47	WSW	3	o	1003·8	−1	39	−2	W	3	W	b	2	1	52	38	bc.c.q	cq.o	opbo	1·3
	Leith	1025·2	47	WSW	2	c	1006·3	−1	44	+3	WSW	4	W	c	4	0·1	52	41	bc.cp.c	c.bcq.c	cuqq.c	*
	Tynemouth ...	1026·4	47	WNW	3	cm	1008·6	−11	48	+6	W	4	W	cmq	3	–	50	41	cq	cm	cmq	*
	Spurn Head ...	1028·9	44	NW	4	c	1016·5	−4	42	+2	W	5	–	b	5	–	47	39	bc	c	c	5·9
	Yarmouth ...	1029·6	48	NNW	3	bc	1020·0	−7	41	−1	W	3	–	cm	3	–	58	39	bcqm	bcmq	bcq.om	5·2
	Clacton-on-Sea	1030·6	49	WNW	3	c	1022·7	−5	40	−2	WNW	2	NW	o	2	–	54	38	c.bc	bc.c.	bc.b.oq	6·5
	Nottingham ...	1031·3	47	WNW	3	c	1017·4	*	45	0	W	4	W	bc	*	–	52	40	c	c	c.o	5·0
	Benson (Oxon.) ...	1032·2	49	W	2	bc	1023·0	−5	44	+6	SW	4	–	o	*	–	54	38	bc	bc	om	*
	Sth Farnborough	1031·9	48	W	1	c	1023·8	−5	41	+1	SW	4	–	o	*	–	55	35	b.ov	o.cv	c.b.o	6·1
	London (Kew Obsy.)	1032·0	51	WNW	2	o	1023·3	−5	42	+1	SW	4	–	o	*	–	54	39	o.b.o	o.c.o	o.bc.b.o	4·8
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)	1006·6	37	W	5	bc	1003·5	−1	37	0	W	4	W	c	4	–	39	36				
	Blaavands Huk	1016·3	37	WNW	5	c	1012·0	−5	36	0	W	4	–	c		–	37	32				
	Copenhagen ...	1009·7	37	WNW	4	b	1008·0	0	37	+1	WNW	3	–	m	*	Trace	39	34				
	Bornholm ...	1007·9	34	W	8	m	1006·4	+3	34	+2	WNW	6	–	m	2	1	36	32				
FRANCE, &c.	The Helder ...	1027·0	39	W	3	b	1018·3	−6	39	0	SW	4	NW	c	2	Trace	41	37				
	C. Gris Nez ...	1031·8	43	WSW	2	o	1025·0	−5	39	−2	SW	5	*	o	4	–	50	39				
	La Hève	1035·0	43	NNW	3	bc	1030·3	*	40	0	WSW	4	*	c	3	–	52	39				
	Brest (St. Mathieu)	1038·4	48	NNW	3	b	1033·2	−2	46	−1	W	3	*	c	3	–	52	45				
	Rochefort (Ile d'Aix)	1034·6	50	N	4	c	1033·2	−1	41	−1	N	3	*	bc	*	–	55	39				
	Biarritz	1034·4	50	SSW	3	c	1033·1	+1	46	0	ENE	2	*	c	2	–	57	43				
	Paris	1032·3	46	NNW	1	bc	1029·3	−2	36	+1	SSW	2	–	c	*	–	54	34				
	Belfort	1030·3	46	W	3	bc	1031·0	*	36	+5	WNW	2	*	c	*	–	57	31				
	Lyons	1030·1	50	NW	3	c	1030·0	*	39	+2	NNW	4	*	b	*	–	57	37				
	Nice	1023·8	45	–	0	b	1019·9	−1	54	+8	–	0	*	b	2	–	59	43				
	Perpignan ...	1027·7	57	NW	3	bc	1025·6	−2	50	+5	NW	6	–	b	*	–	66	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1037·1	54	NE	4	b	1034·7	0	50	0	NNE	4	–	b	2	–	55	46				
	Madrid	1025·9	63	NNE	2	b	1031·1	+2	41	0	NE	2	–	b	*	–	64	34				
	Lisbon																					
	Azores (Horta) ...	1027·4	*	SE	5	c	1026·3	+2	57	0	SSE	5	*	o	3	–	61	57				
	Madeira																					
	Gibraltar	1027·7	53	SE	2	m	1025·7	*	48	·	E	3	*	m	3	–	61	46				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.19
750m: W, 23 m/s
600m: W, 19 m/s
300m: W by S, 9 m/s
Surface: WSW, 8 m/s.

GALES
Duration and Extreme Force in British Islands.

Stornoway Squalls WSW 8 at 7h
Glasgow 18h 23h – 19h 2h W 8
Eskdalemuir 19h 1–2h SW 8
Malin Hd 18h 22h – 19h 3h WSW 9
Nairn 19h 2h gust W 8

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	53	78	6·2	54	39	32	–	b.c.	c	b.
CITY (Bunhill Row)	*	*	4·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	55	78	3·9	54	39	34	–	bc.o	o	bc.o
CAMDEN SQ. (British Rainfall) ...		77	3·0	55	38	33	–	bc	b.bc	*
HAMPSTEAD (Reservoir)	*	80	4·7	52	36	26	–	b.	bc	bcx
S. KENSINGTON (Museum Grounds)	*	79	4·0	54	39	35	–	bc	bc	bcom
RICHMOND PARK	*	*		*	*	*	*	*	*	*

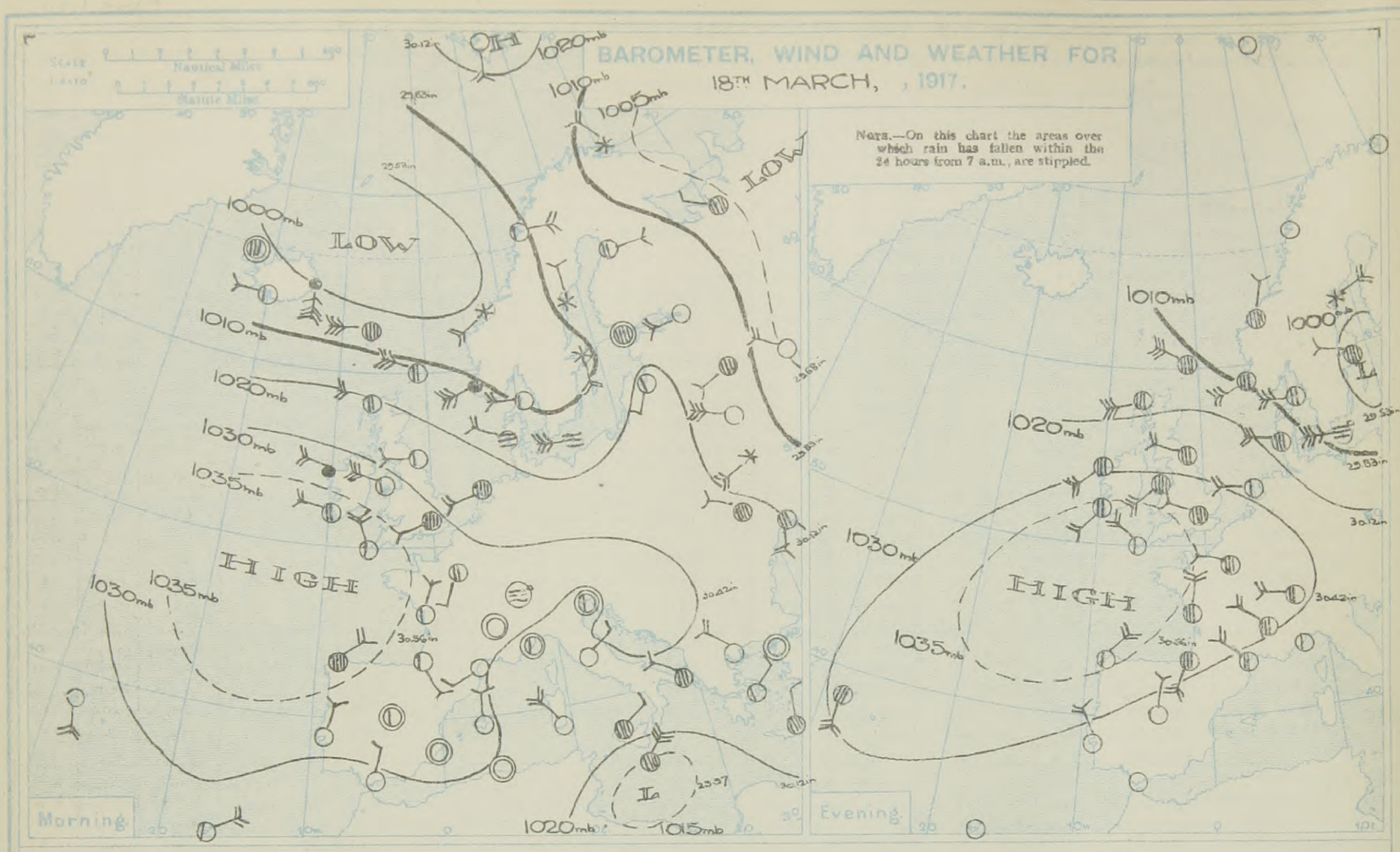
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

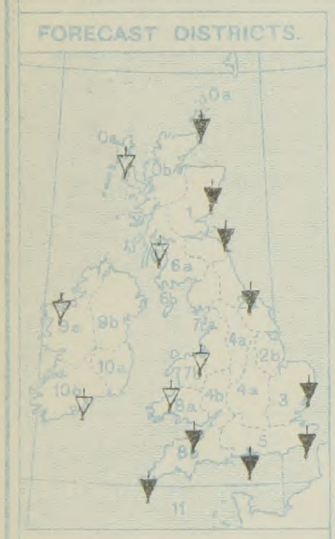
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
646	15·0	45·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.



STORM WARNINGS.

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

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

South Cones hoisted 18th. 19h. and 19th 2h 15m.

0{a b} 1 2{a b} 3 4{a b c} 5 6{a b} 7{a b} 8{a b} 9{a b} 10{a b}

Strong Westerly winds or gales, probably moderating later; dull, some showers or rain; moderate or rather low temperature.

Western Channel and Bay. 11

Winds becoming strong Westerly with rough sea; fair, some showers.

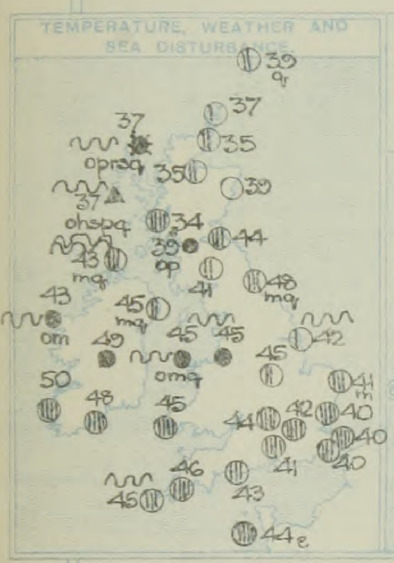
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF MONDAY, 19TH MARCH, 1917.

GENERAL INFERENCE

A disturbed Westerly type of conditions is likely to continue.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈≈.

HIGH 1015mb 1010mb 1005mb LOW

29.97in 29.83in 29.68in 29.53in 29.38in 29.24in 29.68in

1005mb 1000mb

990mb 995mb LOW

1000mb 1005mb 1010mb 1015mb 1020mb

Barometer falling decidedly

Barometer rising

29.53in 29.38in 29.23in 30.02in 30.27in

1025mb 1030mb

HIGH Bar. rising again.

30.42in 30.27in 30.12in

LOW 1020mb 1025mb

SCALE 1 : 2 × 10⁶
Nautical Miles
Statute Miles

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

Issue No. 20,206

DAILY WEATHER REPORT.

Monday, 19th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning. 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.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Past 24 Hours. Temp. Max.	Past 24 Hours. Temp. Min.
			°F.						°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1007·5	10	N	1	0	1005·2	0	−6	0	NW	1	0	−	*	−11
	Gorki						1015·7	0	1	+9	NW	6	b	−	*	−9
	Velieki Luki ...						1020·0	*	0	+2	WSW	3	b	1	*	−2
	Hangö	1020·3	10	N	1	0	1005·2	0	−6	−27	NW	1	0	−	*	−4
	Riga						1022·1	0	3	−15	SSW	1	b	−	*	0
	Petrograd ...	1013·9	5	NW	3	b	1018·1	0	−9	−16	W	3	b	2	?	−15
	Moscow	1009·5	10	SSW	4	5	1004·6	+1	3	+2	NNW	3	b	1	*	1
	Kiev	1021·1	27	SSW	3	b	1017·3	+1	14	+14	N	4	b	1	*	0
	Kharkov ...	1027·3	7	SSE	2	b	1010·0	−1	18	+20	SW	4	5	−	*	−2
	Kishinev ...	1025·1	25	−	0	b	1020·2	0	21	−	NW	3	0	−	*	19
	Elisabetgrad ...	1027·1	14	S	3	0	1015·1	−1	23	+18	WSW	4	5	−	*	5
	Nicolaiev ...	1028·4	23	SW	3	b	1018·7	*	27	+11	SW	3	c	−	*	16
	Odessa	1028·6	27	SW	3	b	1020·7	0	25	+6	W	3	0	−	*	19
	Tarkhankout...	1030·6	21	−	0	b	1020·8	*	37	−	W	5	0	−	*	21
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1030·6	43	WSW	1	b	1029·8	*	37	0	−	0	b	−	46	?
	Pesaro	1032·3	36	NE	1	b	1031·4	*	34	−7	−	0	b	−	45	30
	Rome	1028·9	46	N	1	b	1026·7	*	41	−2	−	0	b	−	55	37
	Viesti	1031·0	41	NNW	1	b	1029·4	*	46	+1	NW	3	b	1	?	41
	Brindisi	1028·9	50	NW	2	0	1026·7	*	50	+2	NW	2	c	−	52	48
	Cagliari	1027·8	57	NE	4	b	1026·9	*	54	0	NNW	4	b	−	63	48
	Palermo	1024·3	54	NE	1	bc	1022·3	*	54	+2	NE	1	0	−	57	50
	Tripoli						1037·2	*	50	−9	SW	2	0	2	64	48
	Algiers															
SWEDEN.	Hernösand ...	1020·6	18	S	2	b	1011·1	*	18	+8	N	2	5	*	*	*
	Stockholm ...	1021·3	19	ESE	2	b	1009·7	*	28	+7	S	4	5	*	*	*
	Wisby	1019·0	28	NNE	2	c	1011·0	*	28	−2	SW	2	5	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	1000·6	36	0	−	0	c
Reykjavik	1004·8	36	−9	WSW	3	b
Vestmanna	1007·7	37	0	W	2	b
Seydisfjord	998·1	41	+2	S	8	r
Thorshavn	1007·4	38	−9	W	6	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	1	49	42	o. bcp	−	3·3
	Banff	−	−	49	44	bc	bc.c.o	4·5
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	−	−	49	40	bc.b	bc.c	5·7
	Skegness	1	−	52	40	b	c.b	7·6
Eng. N.W.	Morecambe							
	Southport							
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	3	−	47	41	or.c	bc	9·4
	Colwyn Bay...	*	*	50	42	bc	bc	9·3
	Llandudno	*	*	48	41	b	b	9·2
	Aberystwyth	*	*	45	38	cr.b	bc.o	9·0
	Tenby							

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft							
	Felixstowe	Trace	−	54	38	bc	bc	6·9
	Walton-on-Naze							
	Southend-on-Sea	−	−	56	36	b.bc	b.bc	6·5
England. S.E.	Margate							
	Ramsgate							
	Hastings							
	Eastbourne	−	−	56	41	b	b	5·9
	Seaford	*	*					
	Brighton							
	Worthing	−	−	57	39	bc	−	7·7
	Littlehampton	−	−	56	38	b	b	7·5
	Bognor	*	*					
	Bournemouth	−	−	55	42	b	b	8·4
England. S.W.	Weymouth...	*	*					
	Torquay	−	−	54	47	bc.b	b	8·3
	Paignton	*	*					
	Penzance							
	Newquay	Trace	−	49	40	b	b	9·5
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

19th and 20th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6.0	12.1	6.2
	5.58	12.1	6.3
Greenwich	6.7	12.8	6.9
	6.5	12.8	6.10
Wick	6.20	12.20	6.20
	6.18	12.20	6.21
Valencia	6.48	12.49	6.50
	6.46	12.49	6.51

NOTES ON YESTERDAY'S WEATHER.

The day was generally bright with sunshine measurements up to 10 hours in the South-West. Rain fell heavily at Lerwick. Winds increased to gale force during the night in the North and 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 79

Tuesday 20th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING								PAST 24 HOURS						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.				‡		°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	990·9	39	NW	2	c	1007·0	+6	40	+1	NE	6	–	bq	5	1	4	1	bqp	bc	bcq	*
	Deerness (Orkney)	992·5	36	NW	4	c	1006·8	*	38	+1	N	6	–	b	5	3	40	35	b.ophs.c	ephs	eph.bcb	4·7
	Stornoway ...	996·9	36	NNW	4	c	1011·9	+8	39	+2	NNE	6	–	bcq	5	8	43	33	ephs	eps	Leprsq	1·5
	Castlebay (Barra Isd.)	999·4	35	NNW	5	o4p	1012·0	+9	40	+3	N	5	N	bq	5	3	45	34	hs.epc	c.ops.p	osp.bq	2·9
	Glasgow ...	995·7	39	W	5	or	1006·1	+12	35	−4	NE	2	–	b	*	6	44	31	ohp.bc	c.orhpi	cbsp	2·6
	Eskdalemuir ...	997·9	36	WSW	6	ors	1004·1	+7	33	−8	N	5	–	b	*	7	42	31	bcph.c	eph.or	osp.bc	3·6
	Malin Head ...	997·5	43	WNW	8	cmpq	1007·4	+8	45	+2	NW	9	NW	cmq	8	1	45	36	bcmpq	empha	empq	3·6
	Blacksod Point	1010·4	41	NW	8	cmqr	1014·9	+3	44	+1	NNW	5	NW	bcm	5	3	46	40	cmqr	cmqr	epq.bc	*
	Valencia ...	1019·9	46	WNW	5	c	1018·2	−1	46	−4	NW	6	NW	cq	5	3	50	42	op.c	ep	o.epq	3·0
	Roche's Point	1016·9	45	WNW	5	bc	1012·9	*	45	−3	NNW	7	N	c	4	1	52	42	op.o.b	bcp	bp.c	*
	Birr Castle ...	1011·5	48	W	4	c	1011·1	*	43	−6	NW	3	–	o	*	2	48	37	epq	epq	orq.o	5·3
	Donaghadee ...	1002·1	40	WNW	6	cmpq	1003·0	+2	43	−2	NW	7	N	ompq	5	7	47	38	bcpq	empha	empqr	*
	Liverpool (Bidston)	1005·1	42	WSW	7	b	999·6	−6	39	−6	W	6	W	ogrq	5	10	50	34	bcpq	ohpeq	orhq	3·8
	Holyhead ...	1007·8	44	WSW	5	bq	1002·1	−4	42	−3	NW	8	NW	cq	7	4	49	39	or.bc	op.bc	bcqp	3·0
	Pembroke (St. Ann's)	1013·0	44	W	6	cq	1009·0	−4	41	−4	WNW	6	NW	cq	6	1	47	37	eqp.cq	epq	epq.pq	1·3
	Scilly (St. Mary's)	1019·5	47	WNW	7	cmp	1015·0	0	44	−4	NW	6	NW	b	6	1	52	43	c	cmpq	bc.b	2·6
	Falmouth ...	1016·9	46	WNW	6	bcq	1011·5	−1	41	−5	NW	7	–	b	*	1	54	37	o.c.bcq	bcq.od	bcp.bq	2·3
	Jersey (St. Aubin)	1020·0	47	WSW	6	c	1009·1	*	42	−2	NW	3	–	b	3	3	48	38	oc.o	o.c	od.b	0·3
	Portland Bill ...	1011·1	45	WNW	5	or	1005·8	+4	41	−2	NW	6	NW	b	4	2	45	39	c.o	bcp	c.bc	*
	Dungeness ...	1009·2	44	WSW	7	o	998·7	+4	37	−3	NW	6	NW	bcq	5	4	50	34	c.c.	c.o.	c.or.bc	*
	Dover	1009·0	45	W	6	o	997·9	+3	35	−5	NW	9	NW	bc	6	2	48	35	o.c.bc	c.oq	bc.	1·9
	Wick	993·6	38	NNW	3	bc	1004·0	+7	40	+5	N	4	–	c	4	5	41	32	bcmps	cps.bc.	bcrmp	*
	Nairn	994·2	34	–	0	cq	1008·1	*	37	+2	NW	2	–	cq	2	14	40	32	cqpsr.p	cs	epqrs	1·5
	Aberdeen	991·4	35	N	2	orsp	1004·5	+6	37	−2	NW	4	–	bc	3	2	46	34	bcq	c.ors	ors.c.b	4·3
	Leith	993·7	40	W	5	or	1005·0	+4	37	−7	NNE	2	NE	b	4	2	45	33	epqh.c	cp.cq.o.	cb.cb	*
	Tynemouth ...	998·2	41	W	4	omq	1000·7	+3	38	−10	NNE	3	N	cq	4	7	49	33	cmqp	cmqp	omqs	*
	Spurn Head ...	1003·2	42	WNW	7	cq	997·6	+2	35	−7	NNW	6	–	osq	6	4	47	33	boq	cq	cq	1·0
	Yarmouth ...	1006·0	46	NW	3	bcq	992·9	0	36	−5	N	7	–	omqp	5	6	52	35	bcq	bcqp	bcmqp	1·7
	Clacton-on-Sea	1007·1	46	W	4	o	996·7	+4	36	−4	WNW	5	NW	c	4	4	50	36	og.c.oq	oqp	bc.opo	1·0
	Nottingham ...	1006·1	45	WNW	4	b	1000·5	*	37	−8	WNW	2	NW	om	*	2	51	36	cp	cp.bc	bc.cp	2·5
	Benson (Oxon.) ...	1009·1	47	W	3	c	1001·4	+1	36	−8	WNW	3	–	c	*	1	50	35	c.oq	pq	oqp.bc	*
	Sth Farnborough	1009·3	47	WSW	3	bc	1001·6	+4	37	−4	W	4	NW	bc	*	5	50	36	c.od	or.bc	bcrq.bp	0·1
	London (Kew Obsy.)	1008·9	47	W	4	bc	1000·9	+5	37	−5	NW	4	N	b	*	2	50	37	o	od.c.oqr.bc	bc.orqb	0·1
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö														*							
	Bodö	1007·9	14	E	2	bc	1005·6	−2	14	+5	E	2	–	bc	2	–	16	7				
	Christiansund ...	996·0	30	NE	4	b	1008·3	+2	28	−6	–	0	–	b	4	–	37	28				
	Skudesnaes ...	991·5	36	–	0	c	1000·2	+5	34	−3	ENE	6	–	c	2	7	37	32				
	Færder (X'tania Fjord)	992·0	28	ENE	7	s	1005·5	+6	16	−20	NE	7	–	c	3	+	36	14				
	The Scaw (Skagen)	993·2	36	SSW	3	o	999·5	+10	25	−12	NE	8	–	o	8	3	39	23				
	Blaavands Huk	995·7	36	WSW	3	r	993·9	+3	32	−4	NNE	1	–	o	o	2	37	30				
	Copenhagen ...	996·8	36	WSW	3	m	994·4	+5	32	−5	NE	3	–	m	*	4	41	32				
	Bornholm ...	999·0	34	WSW	7	f	991·3	+3	28	−6	N	8	–	s	2	9	34	28				
FRANCE, &c.	The Helder ...	1002·9	39	SW	4	c	991·8	−3	37	−2	WSW	1	–	c	2	7	41	36				
	C. Gris Nez ...	1009·5	43	SW	7	r	997·0	0	37	−2	NW	7	*	o	8	4	46	37				
	La Hève	1015·8	41	WSW	4	o	1000·7	*	43	+3	NNW	6	*	o	8	3	50	37				
	Brest (St. Mathieu)	1023·3	46	W	4	o	1014·4	+2	46	−1	NNW	6	*	b	4	–	50	41				
	Rochefort (Ile d'Aix)	1027·7	48	WNW	5	o	1013·2	−1	47	+6	NW	7	*	c	*	2	50	41				
	Biarritz	1028·6	50	N	2	c	1018·1	−5	48	+2	W	5	*	o	3	–	59	46				
	Paris	1018·6	48	WSW	4	o	1001·3	−5	39	+3	WSW	4	–	r	*	1	54	36				
	Belfort	1020·2	45	W	6	o	1004·6	*	36	0	WSW	7	*	r	*	1	50	34				
	Lyons	1023·5	45	NNW	1	bc	1010·9	*	39	0	SSE	1	*	o	*	–	53	35				
	Nice	1015·3	50	E	4	b	1004·8	−4	46	−8	–	0	*	c	2	10	63	43				
	Perpignan ...														*							
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1025·7	59	ESE	2	b	1020·8	−4	37		–	0	NW	o	*	–	59	36				
	Lisbon																					
	Azores (Horta) ...	1024·4	*	SE	5	m	1022·4	0	57	0	ESE	4	*	o	3	–	64	57				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.17.
1500m: NNW 29 m/s
1200m: NNW 22 m/s
900m: NNW 21 m/s
600m: NNW 18 m/s
300m: NW by W 10 m/s
Surface NW by W 5 m/s

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir
WSW, 8 at 11h and 16h. Gusc. 25 m/s

Aberdeen
Gusts 19 m/s

Glasgow
Extreme, W. 8 - 16h.

Roches Point
NW. 8, 22h - night.

Scilly
Extreme, NW. 9 at 2h. Gale. NW. 19th, 23h — 20th, 3h.

Dungeness
WSW, 8, 3h - 5h.

Benson
Gusts 21 m/s

Kew
Gusts, 18 m/s at 17h. 38m.

Kerwick Aurora 19th 21-22h

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	94	73	0·5	50	36	31	2	c	o	b.c
CITY (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)			0·2	51	37	34	2·5	bc.o	oe	bcrm
CAMDEN SQ. (British Rainfall) ..	85	71	0·8	51	36	31	–	bc.o	o	*
HAMPSTEAD (Reservoir)	*		0·2	48	33	25	1	c	corh	bc.ox
S. KENSINGTON (Museum Grounds)	*	73	0·3	50	37	–	3·5	b.c.	o.c	ehr
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

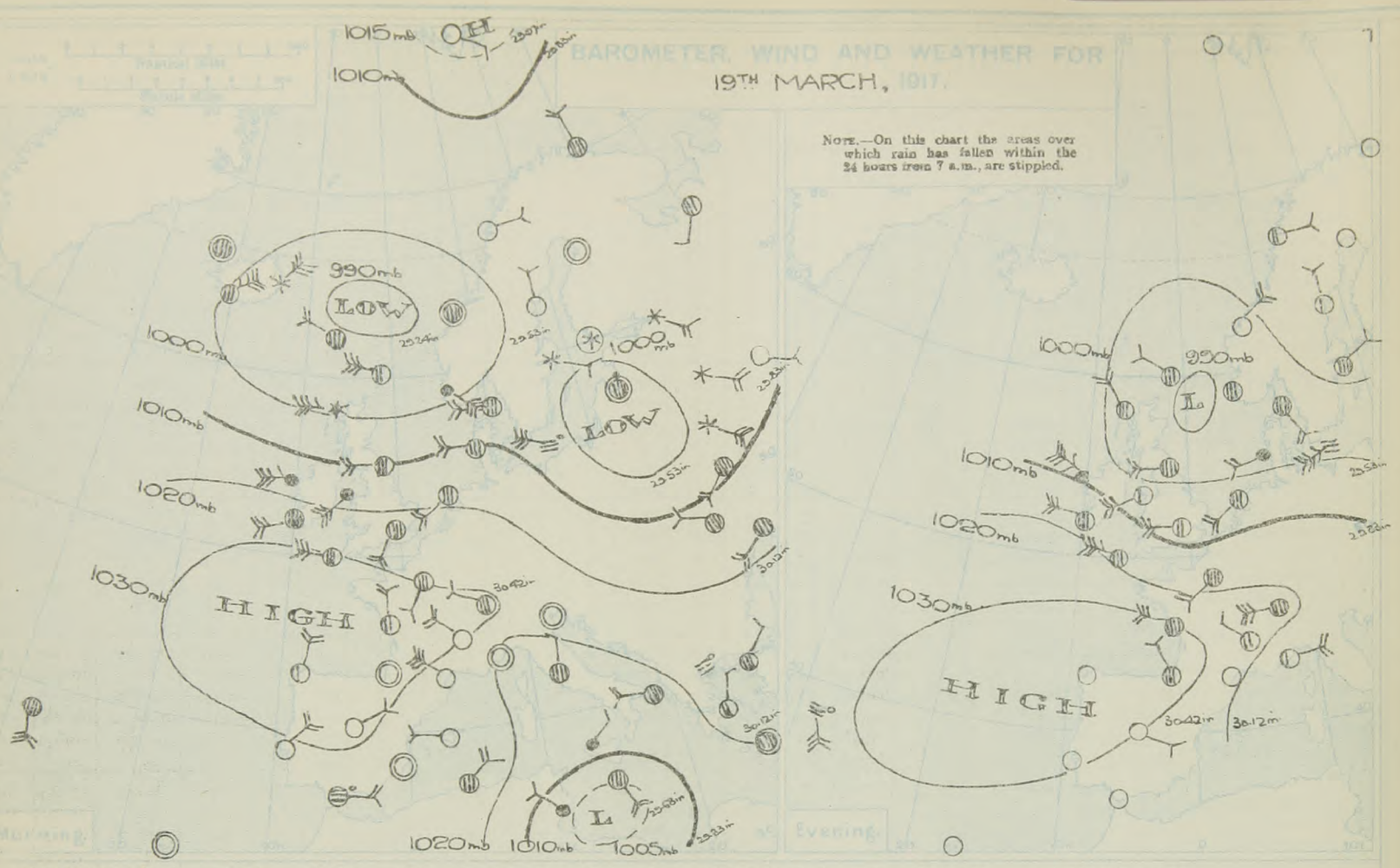
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
323	7·5	142·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 19TH MARCH, 1917.



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 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

1. Strong North East winds to gales; changeable, showery; cold.

2a, 2b, 3, 4a, 4b. Winds moderating temporarily, then becoming strong again from North-West or North; unsettled, some rain or sleet; rather cold.

5. Strong winds or gales from between West and North-West; changeable, some rain; rather cold.

6a, 6b, 7, 8a, 8b, 9a, 9b, 10a, 10b. Northerly gales; changeable, showery and squally; rather cold.

11. Strong North-West winds; rough sea; fair but some showers.

FURTHER OUTLOOK.

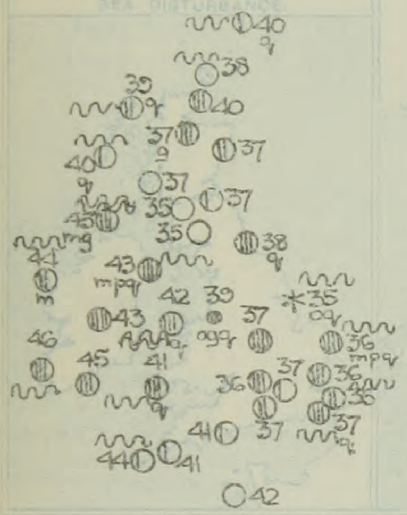
D. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF TUESDAY, 20TH MARCH, 1917.

GENERAL INFERENCE

A secondary depression which is forming over Wales, will give unsettled weather in the South.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

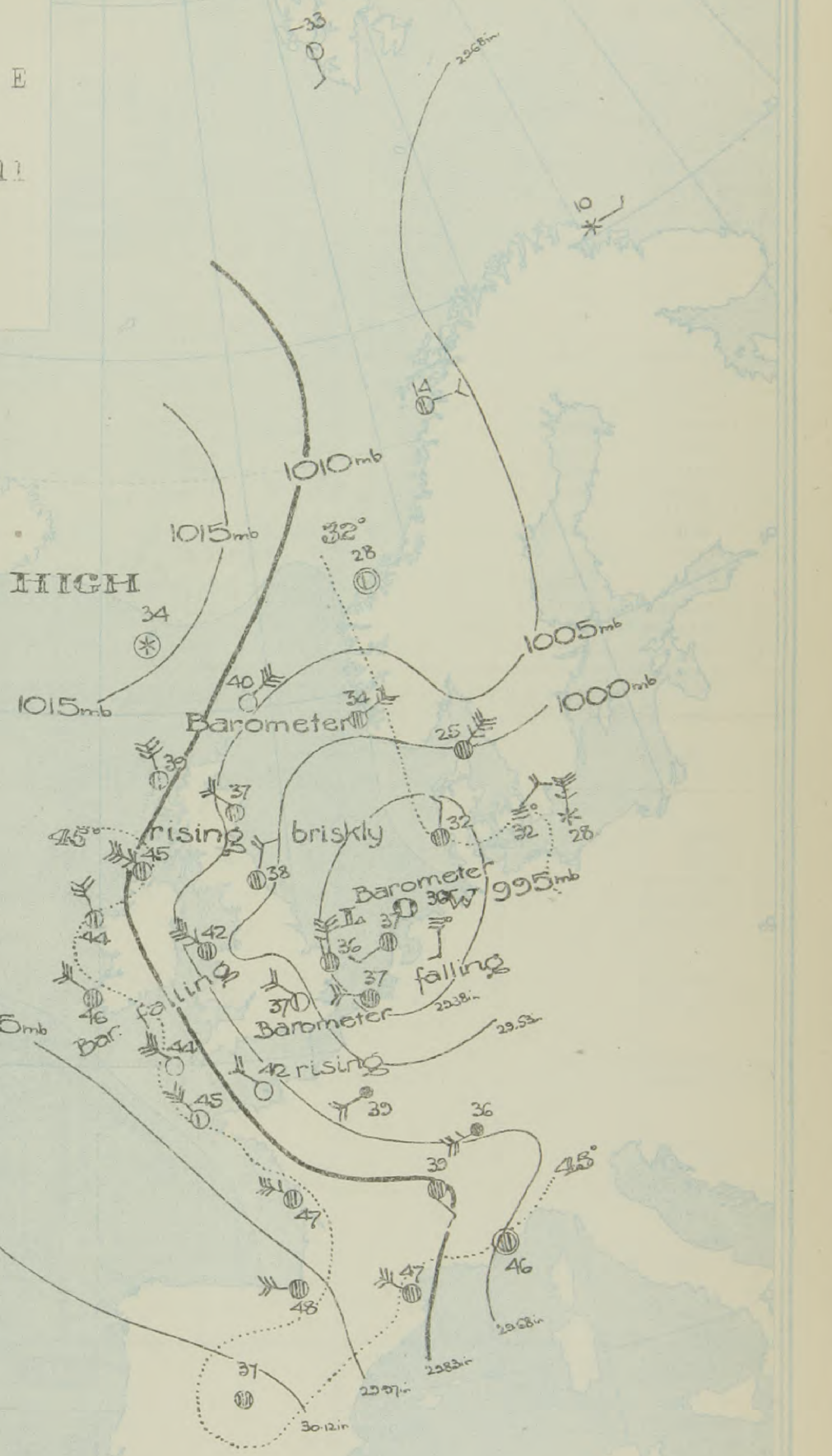
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky 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 MARCH.

Issue No. 20,207. **DAILY WEATHER REPORT.** Tuesday 28th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Tens. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1002·9	8	W	3	c	1002·6	0	-13	-7	SW	1	bc	–	*	-13
	Gorki	1015·5	10	–	0	b	1002·9	-1	9	+8	SE	b	s	3	*	1
	Velieki Luki ...						1001·5	*	10	+10	SE	4	s	–	*	1
	Hangö						1001·5	-1	14	+24	ESE	1	s	?	*	-10
	Riga	1001·6	16	SSE	5	s	995·9	0	16	+13	–	0	0	4	*	3
	Petrograd ...	1009·7	-26	S	2	0	1004·7	-3	1	+10	SE	3	s	–	18	-26
	Moscow	1015·8	3	NW	3	b	1009·3	0	-6	-9	ESE	2	b	–	*	9
	Kiev						1008·0	-4	21	+7	SW	3	0	5	*	10
	Kharkov ...	1021·9	3	NW	2	b	1019·8	-4	5	-13	S	2	s	1	*	-2
	Kishinev ...	1023·4	21	–	0	0	1013·7	-6	34	+13	NW	2	0	–	*	19
	Elisabetgrad ...	1026·3	7	NW	1	b	1014·3	-9	18	-5	S	4	s	2	*	5
	Nicolaiev ...	1026·9	18	–	0	b	1017·1	*	25	-2	SSW	4	0	–	*	16
	Odessa	1027·7	21	ENE	2	b	1017·2	-7	34	+9	SW	4	0	–	*	19
	Tarkhankout...	1028·3	27	N	5	b	1020·7	*	41	+4	SSW	7	0	–	*	19
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1024·6	45	–	0	b	1022·3	*	41	+4	–	0	b	–	52	37
	Pesaro	1025·5	43	–	0	b	1022·7	*	37	+3	W	1	b	–	50	34
	Rome	1021·3	52	–	0	b	1016·9	*	46	+5	N	1	0	–	59	44
	Viesti	1024·9	48	NW	2	b	1023·7	*	37	-9	W	1	b	–	50	34
	Brindisi	1022·3	52	NW	3	b	1017·7	*	58	+8	WNW	3	0	–	58	50
	Cagliari							*								
	Palermo	1019·4	52	WSW	1	0	1013·7	*	52	-2	NE	1	p	5	59	45
	Tripoli							*								
	Algiers	1026·7	50	NNW	1	b	1025·0	+1	54	–	NNE	3	c	–	57	48
SWEDEN.	Hernösand ...	1003·7	18	ENE	4	5	1006·9	*	9	-9	N	2	bc	*	*	*
	Stockholm ...	997·9	30	WNW	2	0	1001·5	*	23	-5	ESE	2	s	*	*	*
	Wisby	997·1	34	N	2	0	999·5	*	30	+2	NNW	2	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Tens. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord ...	?1008·6	28	-8	–	0	0
Reykjavik	1003·7	36	0	N	7	0
Vestmanna	998·0	37	0	NE	7	c
Seydisfjord	994·6	34	-7	NE	6	5
Thorshavn	990·8	34	-4	NW	3	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	5	2	47	39	cw	cw	0·9
	Banff	Trace	1	42	36	bcs. bc	bcsd	4·0
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	–	Trace	46	38	p	p	6·7
Eng. N.E.	Harrogate	Trace	2	48	36	o.c.bcp	cp.bc.b	5·6
	Skegness	–	3	49	42	op	o	0·4
Eng. N.W.	Morecambe	2	1	43	42	–	–	4·8
	Southport	1	Trace	49	41	orq.c	c.b.bc.c	4·8
Midlands.	Leamington Spa							
	Malvern	–	3	50	36	o.c	ro.c	1·0
	Ross-on-Wye	–	1	51	41	op	cr	2·2
Wales.	Rhyl	Trace	2	50	39	do.c	cr.bc	2·6
	Colwyn Bay...	*	*	50	42	cp	bcp	2·3
	Llandudno	*	*	48	41	cr	cp	1·9
	Aberystwyth	*	*	46	40	ro.c	c.o	0·7
	Tenby							

	STATIONS.	Rainfall. Night 18h-9h.	Day. 9h-18h.	Temperature. Max.	Min.	Weather. Forenoon.	Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	–	3	52	39	c.o	op	1·0
	Felixstowe	–	5	50	38	om.bc	or.bc	0·5
	Walton-on-Naze							
	Southend-on-Sea							
England. S.E.	Margate	–	1	50	39	c.bc.o	or	0·9
	Ramsgate							
	Hastings	–	–	50	37	o.bc	o	0·7
	Eastbourne	–	–	48	39	o.bc	bc.o	2·3
	Seaford	*	*	49	34	c	o	1·2
	Brighton	–	–	47	38	o.c	c.o.	0·9
	Worthing	–	–	48	37	o.bc	o	1·2
	Littlehampton	–	–	40	37	o.bc	o	1·0
	Bognor	*	*	47	39	o	o	0·0
	Bournemouth	–	1	50	39	c.o	or	0·8
England. S.W.	Weymouth...	*	*	48	41	c	cd.c	0·0
	Torquay	–	–	52	40	o.c	c.bc	1·4
	Paignton	*	*					
	Penzance	–	Trace	54	43	o.bc	cp.o.bc	1·7
	Newquay	–	Trace	51	43	o	odq	0·2
	Bude	–	1	50	43	o	o	0·0
	Ilfracombe	–	Trace	49	40	o	cr.c	0·6
	Weston-s-Mare	–	–	49	40	o.bcp	c	0·5

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

20th and 21st March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.58	12.1	6.3
	5.56	12.0	6.4
Greenwich	6.5	12.8	6.10
	6.3	12.7	6.11
Wick	6.18	12.20	6.21
	6.16	12.19	6.23
Valencia	6.46	12.49	6.51
	6.44	12.48	6.52

NOTES ON YESTERDAY'S WEATHER.

Strong winds or gales were general. There was precipitation in all districts, in the form of snow at some stations in the North and East. Sunshine measurements were small.

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

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 80

Wednesday 21st March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc	Wind. Force 0–12.	Weather.	THIS MORNING. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1015·7	36	N	4	cq	1011·1	−1	29	−11	NNW	5	N	cq	4	1	42	29	bcqp	bcqsp	cqsp	*
	Deerness (Orkney)	1016·9	38	N	5	bc	1012·8	*	32	−6	N	5	NW	bc	4	—	42	31	b.bc	c	cph	7·7
	Stornoway ...	1021·1	37	NE	4	bc	1015·4	−4	33	−6	NE	4	—	os	4	7	43	33	c.opq	bcpq	cprs	2·3
	Castlebay (Barra Isd.)	1020·8	42	NNE	4	op	1017·5	−4	40	0	W	3	—	o	3	1	46	37	bq.o.c.b	o.bc.op	opbco	2·3
	Glasgow ...	1016·2	40	NNE	2	c	1015·7	−2	34	−1	WNW	3	—	o	*	0·2	46	32	b	bc.c.o.c	c.b.bco	1·5
	Eskdalemuir ...	1013·5	36	NNE	7	b	1014·7	−2	33	0	NW	4	N	ox	*	0·1	41	29	b.bcph	b.bc.	b.bcco	7·1
	Malin Head ...	1017·4	42	N	6	bcq	1018·5	−2	39	−6	NNE	5	N	cq	5	—	45	38	bcq	bcq	cq	6·5
	Blacksod Point	1021·2	43	N	5	cp	1021·1	−1	38	−6	NNE	3	N	bcp	3	1	47	37	cqp	cp	b.cp	*
	Valencia ...	1020·0	47	N	5	bc	1020·9	0	39	−7	NNE	3	N	c	3	1	50	38	op.bc	b.bq.b.	bc	7·0
	Roche's Point	1016·9	48	NNW	4	b	1019·6	*	39	−6	NNW	3	—	o	2	0·2	51	38	c.op.bc	c.bc.b	b.o	*
	Birr Castle ...	1018·3	43	N	2	c	1019·8	*	33	−10	N	1	—	c	*	0·3	52	32	c	cp	cx	6·7
	Donaghadee ...	1014·6	42	NE	5	bcq	1016·2	−1	39	−4	N	5	NE	cq	4	—	46	38	bcq	bcq	bcq	*
	Liverpool (Bidston)	1011·6	40	NW	3	o	1014·6	0	35	−4	NNW	2	NW	bc	2	3	43	34	os.b	o	o.c	5·1
	Holyhead ...	1013·9	43	N	5	cq	1016·1	−1	39	−3	NNE	5	—	c	5	1	47	38	b.bc	cq.bc.c.	b.bcpq	7·4
	Pembroke (St. Ann's)	1013·5	43	N	4	bq	1015·6	0	38	−3	NNE	3	NE	c	4	0·4	46	37	cqph	bcq.bq	bq.bc	7·7
	Scilly (St. Mary's)	1014·4	45	N	5	b	1015·6	−1	42	−2	NNE	4	NE	c	5	2	49	39	bcpq	bcm	bc.cqp	6·0
	Falmouth ...	1012·7	42	N	6	bq	1014·6	+1	36	−5	NNE	1	—	b	*	Trace	48	36	bq.cqf	bcq.bq	bq.b	7·5
	Jersey (St. Aubin)	1007·1	43	NNW	3	b	1010·7	*	39	−3	NE	4	—	o	3	2	49	37	bc.oq.c	cqp.b.	obop.o	5·0
	Portland Bill ...	1007·4	44	NNE	4	b	1011·7	+4	35	−6	NNE	4	NW	b	3	1	46	35	bcqp	bc	b.bc	*
	Dungeness ...	1002·9	42	N	4	bc	1008·8	+3	34	−3	NE	5	NE	c	4	2	44	32	bc	bc	c.ors	*
	Dover	1003·6	38	N	2	bc	1008·8	+3	34	−1	N	6	N	c	4	3	48	32	bc	bc.c.bc	oprs	8·3
	Wick	1017·5	36	NNE	5	c	1013·1	−1	34	−6	NNE	4	NW	c	4	1	42	33	cmq	cmpqh	cmpsb	*
	Nairn	1018·1	37	NE	4	cq	1014·9	*	33	−4	—	0	—	os	1	2	42	32	cg.oq	cgq	ouq	1·2
	Aberdeen ...	1015·5	39	N	4	bc	1013·0	−2	34	−3	NNW	3	—	o	3	3	42	32	bc.oq	oq.bc.	bc.osp	0·1
	Leith	1015·1	41	NE	4	c	1014·0	−1	37	0	NW	3	—	o	4	—	43	35	b.bc.qc	cq.bc.c	c.b.bco	*
	Tynemouth ...	1011·2	38	NE	4	cqp	1012·8	−1	33	−5	NNW	3	—	oms	4	1	41	33	cqp	cqp	cmp	*
	Spurn Head ...	1008·2	37	ENE	6	cqp	1012·1	−2	33	−2	NNE	5	—	cbqp	6	1	42	32	rq	cqp	cqp	1·3
	Yarmouth ...	1002·7	36	NNE	5	oqp	1009·2	+1	34	−2	NNE	4	—	bc	6	2	42	33	omqp	omqp	oqm	2·3
	Clacton-on-Sea	1003·4	42	NW	4	c	1009·7	+3	34	−2	NW	3	N	c	2	1	44	34	c.bc.c	c.bc.c	cpsr.c	7·0
	Nottingham ...	1008·8	38	NE	5	c	1012·6	*	34	−3	N	3	N	s	*	1	46	33	o.cph	cp	cps	4·4
	Benson (Oxon.) ...	1006·2	41	N	4	o	1011·5	+1	33	−3	N	3	—	o	*	1	45	30	ors.c	pq	orq.bc	*
	Sth Farnborough	1005·3	41	N	2	bc	1010·9	+2	32	−5	N	2	—	b	*	0·4	46	31	bc.o.bc	cp.bq.c.bc	bcpq.b	3·7
	London (Kew Obsy.)	1005·5	41	NNW	3	o	1011·3	+2	34	−3	N	3	N	b	*	1	45	33	b.oq.bc	bc.op.o	opq.bc	4·7
NORTHERN EUROPE.	Spitsbergen ...	1003·7	−27	S	3	b	1007·3	−1	−40	−7	S	1	*	b	*	*	−24	−44				
	Vardö	1000·6	10	—	0	b	999·1	−1	9	−1	SW	2	—	b	2	*	14	7				
	Bodö	995·7	23	E	4	o	996·8	0	19	+5	E	4	—	b	2	—	23	14				
	Christiansund ...	1004·0	30	NW	4	o	997·7	−5	28	0	W	4	—	s	4	8	34	25				
	Skudesnaes ...	1009·2	32	—	0	c	1003·1	−1	28	−6	N	4	—	s	2	—	36	27				
	Færder (X'lania Fjord)	1009·5	23	SSE	2	b	1001·6	−3	28	+12	SSW	6	—	o	3	—	23	16				
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Copenhagen ...	1005·9	25	E	4	o	1006·1	0	19	−13	E	2	—	c	*	Trace	32	18				
	Bornholm ...	1002·0	23	ENE	9	o	1002·9	−1	21	−7	ENE	8	—	s	2	b	28	18				
FRANCE, &c.	The Helder ...	1000·4	36	NNE	5	r	1007·1	+2	30	−7	NNE	5	—	c	2	2	39	30				
	C. Gris Nez ...	1002·4	37	NNE	5	bc	1007·3	+4	34	−3	NNE	7	*	o	6	—	43	34				
	La Hève	1004·7	36	NNE	3	c	1008·4	*	36	−7	NE	4	*	o	5	18	45	34				
	Brest (St. Mathieu)	1011·3	46	NNW	6	bc	1012·7	0	43	−2	NE	5	*	o	4	—	48	41				
	Rochefort (Ile d'Aix)	1005·5	46	NW	6	c	1007·3	0	40	−7	N	6	*	c	*	1	48	40				
	Biarritz	1011·7	48	WNW	4	r	1008·6	−2	46	−2	NNE	2	*	b	4	5	50	41				
	Paris	1002·6	39	NW	2	o	1004·2	+2	36	−3	N	2	—	o	*	2	46	36				
	Belfort	1003·1	36	W	6	c	1000·8	*	30	−6	—	0	*	c	*	2	41	29				
	Lyons	1004·2	43	NNW	3	o	1000·2	*	32	−7	NNW	3	*	f	*	31	52	32				
	Nice	995·8	50	W	6	b	992·6	−2	45	−1	—	0	*	bc	3	—	64	39				
	Perpignan ...	1007·0	50	WNW	4	o	1002·1	+1	41	−6	NW	7	NW	o	*	—	64	39				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1020·3	*	SE	5	m	1015·5	−1	56	−1	SE	4	*	o	2	—	61	55				
	Madeira	1022·3	63	E	3	b	1019·0	−2	54	0	E	2	—	bc	2	—	63	54				
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1012·2	+3	61	−7	SSW	1		bc		—	66	46				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7:19

4,000 m:	N by E	15 m/s
3,700 m	N by E	13 m/s
3,400 m:	NNE	14 m/s
3,000 m:	NE by N	13 m/s
2,700 m:	NE by N	15 m/s
2,400 m:	NE by N	14 m/s
2,100 m:	NNE	14 m/s
1,800 m:	NNE	18 m/s
1,500 m:	NNE	16 m/s
1,200 m:	NNE	18 m/s
900 m:	NE by N	13 m/s
600 m:	NE by N	13 m/s
300 m:	N by E	7 m/s
Surface	N	4 m/s

GALES
Duration and Extreme Force in British Islands.

Scilly NNW 8 10–12h.
Yarmouth N 8 11–13h.
Kew 18 mps. 19·45h

Glasgow: Aurora last night.
Donaghadee: Aurora last night

LONDON OBSERVATIONS.	Humidity 15 h. Yesterday. %	Humidity 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	70	78	5·1	46	33	29	0·8	o.c	cts	c.o
CITY (Bunhill Row)	*	*	4·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	66	80	3·7	47	35	31	1·6	hzts	bc	bc.osh
CAMDEN SQ. (British Rainfall) ..	71	76	3·9	47	32	29	2·3	o	be	*
HAMPSTEAD (Reservoir).	*	77	4·7	43	30	23	1·3	bcors	os	ox
S. KENSINGTON (Museum Grounds)	*	77	3·6	47	34	30	1·2	o	c	cd
RICHMOND PARK	*	*		*	*	*	*	*	*	*

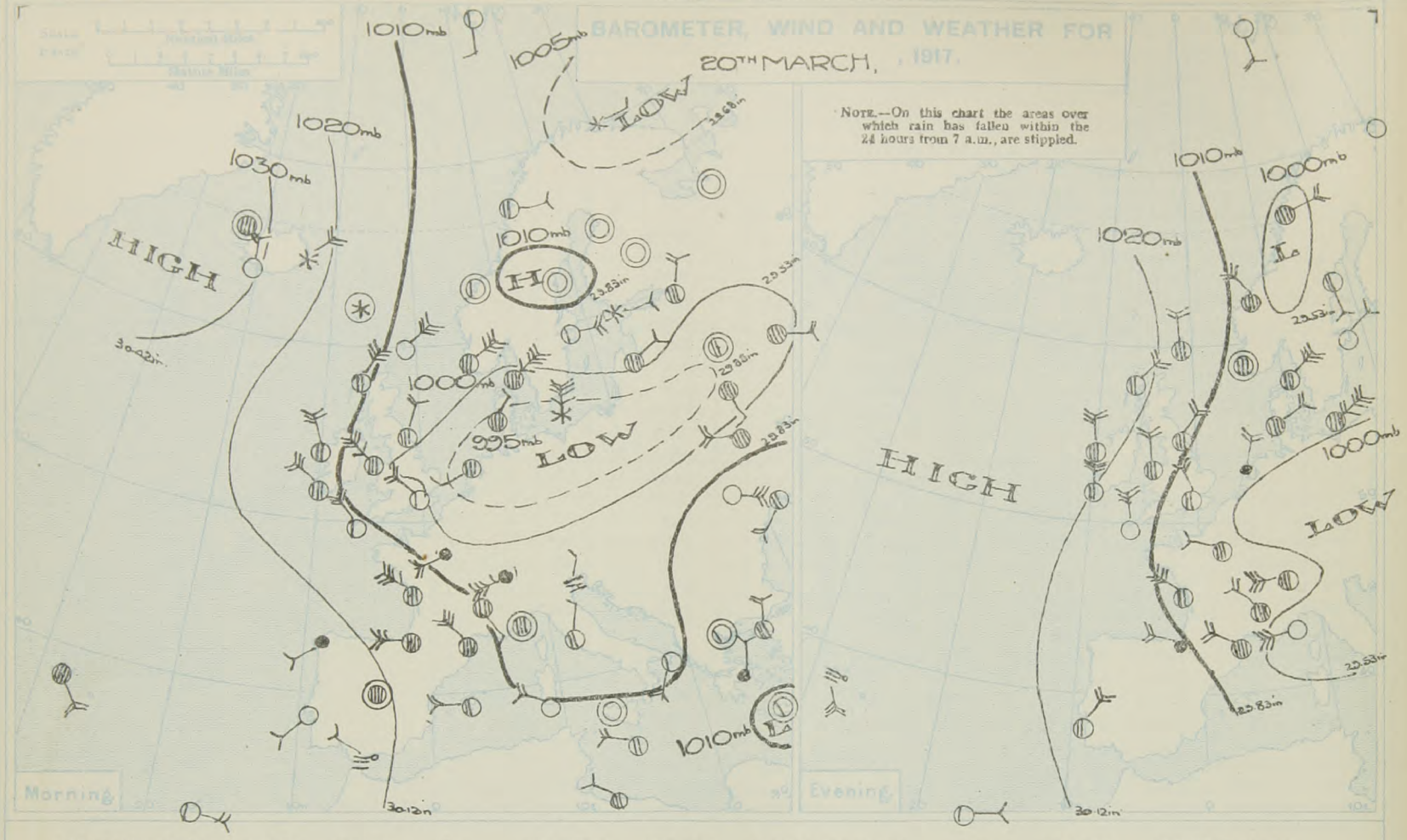
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
638	14·7	60

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued

0 a, b		
1		
2 a, b		
3		
4 a, b, c	Wind from some Northerly point, moderate generally; variable sky; some showers of rain, hail or snow; temperature continuing low.	
5		
6 a, b		
7 a, b		
8 a, b	Wind light or moderate, mainly North; variable sky; some showers of rain or hail; cold.	
9 a, b		
10 a, b		
Western Channel and Bay 11	Wind North-East and North, moderate; sea moderate; cloudy, some showers.	

FURTHER OUTLOOK.

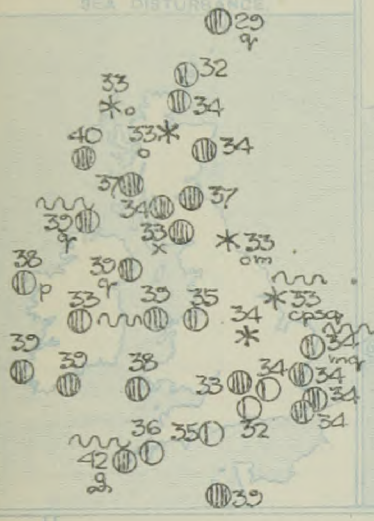
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 21ST MARCH, 1917.

GENERAL INFERENCE.

There are no indications of the approach of any large and deep depression, but local irregularities in pressure are likely to cause wintry showers.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

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

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale of Nautical Miles / Statute Miles

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

1005mb 1000mb 1010mb 1015mb 1020mb LOW HIGH Barometer falling slowly Wind rising Barometer rising 36 slowly Barometer falling slowly 29.97in 29.83in 29.68in 29.53in 29.38in 29.25in 925mb

Issue No. 20,208

DAILY WEATHER REPORT.

Wednesday. 21st March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12	Weather	Morning. 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	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...						1006·3	+3	-22	-9	-	0	b	-	*	-24
	Gorki	996·8	19	S	2	S	996·7	-	12	+3	S	1	o	-	*	5
	Velieki Luki ...	999·1	9	SE	2	o	998·4	*	9	-1	-	o	bc	·3	*	7
	Hangö	1003·3	9	-	o	bc	1004·6	+2	-6	-20	E	2	S	-	*	?
	Riga	1000·8	14	-	o	o	1000·2	o	7	-9	ENE	2	o	-	*	7
	Petrograd ...	1000·8	7	NE	3	b	1001·0	+1	o	-1	NNE	3	c	3	12	o
	Moscow	1005·0	3	ESE	8	S	999·9	-8	3	+9	ESE	3	o	3	*	-6
	Kiev	1001·9	36	W	5	o	1004·3	o	34	+13	W	4	o	1	*	21
	Kharkov ...	1000·7	32	SW	2	o	1003·8	+5	27	+22	W	3	o	?	*	5
	Kishinev ...	1012·4	36	NW	1	b	1010·4	?	?	-	ESE	5	b	?	*	30
	Elisabetgrad ...	1006·3	36	W	5	o	1008·4	+1	32	+14	WSW	3	c	1	*	18
	Nicolaiev ...	1010·3	34	W	3	b	1013·1	*	32	+7	W	2	c	1	*	16
	Odessa	1013·0	36	NNW	4	b	1013·0	o	32	-2	WSW	3	bc	3	*	30
	Tarkhankout...						1014·0	*	41	o	W	4	b	-	*	39
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1014·2	52	-	o	b	1005·0	*	39	-2	-	o	f	-	61	39
	Pesaro	1015·6	43	SE	1	b	1005·5	*	41	+4	?ESE	1	bc	-	54	36
	Rome	1015·5	50	-	o	b	1009·7	*	46	o	-	o	bc	-	61	41
	Viesti	1015·8	60	S	1	o	1009·1	*	50	+13	SE	1	bc	-	55	37
	Brindisi	1015·0	52	SW	2	o	1009·5	*	50	-8	SW	2	b	-	58	60
	Cagliari						1012·6	*	52	-	NW	3	b	-	63	50
	Palermo	1014·3	54	-	o	bc	1012·7	*	54	+2	-	o	b	3	59	43
	Tripoli						1017·0	*	57	-	NW	2	c	·1	58	54
	Algiers															
SWEDEN.	Hernösand ...	1008·2	25	N	2	b	1010·4	*	-4	-13	-	o	b	*	*	*
	Stockholm ...	1002·6	18	NE	2	o	1005·6	*	7	-16	E	4	b	*	*	*
	Wisby	998·9	26	NE	2	o	1011·7	*	19	-11	ENE	4	b	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		F	F			
Isafjord ...	1033·2	27	-1	-	o	o
Reykjavik	1030·3	28	-8	N	2	bc
Vestmanna	1028·8	32	-5	N	3	b
Seydisfjord	1026·9	30	-4	NE	4	S
Thorshavn	1017·8	34	o	-	o	S

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
Scotland.	Oban	2	-	46	36	bc	b	5·1
	Banff	2	-	42	35	oc	bc.c	0·7
	Montrose							
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	4	1	42	32	cr.bc	cr.o	2·3
	Skegness	2	-	43	31	bo.o	b.oh	5·8
Eng. N.W.	Morecambe	6	-	43	35	-	-	5·7
	Southport	9	-	45	33	os.bc.b	bc.c.o	4·8
Midlands.	Leamington Spa							
	Malvern	4	6	44	32	?	?	5·0
	Ross-on-Wye	Trace	1	47	34	oh.rc	c.p	4·7
Wales.	Rhyl	4	-	43	35	ro.c	bc.c	5·4
	Colwyn Bay...	*	*	44	37	c	c.o	4·4
	Llandudno	*	*	45	37	b	bc	6·2
	Aberystwyth	*	*	45	40	or.c	b.bc	7·0
	Tenby							

	STATIONS	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F	F			Hr.
England. E.	Lowestoft	4	-	40	35	cpg	c.bc.cp	2·0
	Felixstowe	1	Trace	44	34	bcqp	bcq.o	3·8
	Walton-on-Naze							
	Southend-on-Sea	2	1	45	36	bc.or.s	b.bc.or	6·5
England, S.E.	Margate	4	-	41	36	bc.c	cp.bc	4·2
	Ramsgate							
	Hastings	-	-	45	36	bc.b	b.bc.o	7·0
	Eastbourne	2	-	47	38	o.bc	b.bc	5·2
	Seaford	*	*	47	36	bc	c.bc	6·0
	Brighton	2	-	46	37	c.o	o.bc	5·0
	Worthing	3	-	46	37	o	bc	5·2
	Littlehampton	2	Trace	46	38	o	bcs	3·2
	Bognor	*	*					
	Bournemouth	1	5	47	36	bc	ro.c	6·0
England. S.W.	Weymouth...			46	38	od.c	bex	5·2
	Torquay	*	*	50	39	b.bc.o	bc.b	7·5
	Paignton	-	-					
	Penzance	*	*					
	Newquay	1	Trace	49	41	cpr	be	7·2
	Bude	2	1	46	37	ohq.b	bq	5·8
	Ilfracombe	1	1	49	41	o.bc	bc.b	6·6
	Weston-s-Mare	Trace	Trace	47	40	op	be	6·1
		1	Trace	47	40	bc.cp.b	b.bc	5·0

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

21st and 22nd March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.56	12.0	6.4
	5.54	12.0	6.6
Greenwich	6.5	12.8	6.10
	6.3	12.7	6.11
Wick	6.18	12.20	6.21
	6.16	12.19	6.23
Valencia	6.46	12.49	6.51
	6.44	12.48	6.52

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° in many parts of the Kingdom and slight frosts occured at night. Slight rain fell generally, but over the country as a whole, there was much bright sunshine.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 81

Thursday 22nd March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1012·4	32	N	4	bc	1016·2	+1	34	+5	NNE	4	–	o	4	1	34	28	cqsp	bcspq	c.o	*
	Deerness (Orkney)	1013·9	32	N	5	bcph	1017·3	*	34	+2	N	4	–	o	4	1	35	31	cph	bcph	cph.c.o	3·2
	Stornoway ...	1019·3	34	NNE	6	cpsq	1021·0	0	34	+1	NNW	3	–	c	4	3	37	32	c.bcps	bc.cpsq	cpsq	4·3
	Castlebay (Barra Isd.)	1019·9	37	NNE	4	c	1022·0	+1	36	-4	N	2	–	o	2	1	52	34	o.bc.o	o.ch3.c	c.bc.o	3·6
	Glasgow ...	1014·6	34	NE	4	b	1019·1	+2	29	-5	W	1	N	bc	*	2	38	27	c.ops.c	c.bc.b	b.bc	4·5
	Eskdalemuir ...	1012·7	31	N	5	bcv	1017·4	+2	26	-7	N	4	N	cv	*	1	39	24	ox.bc.c	os.bv.	b.bc.c	2·8
	Malin Head ...	1016·2	37	N	6	bcq	1020·9	+2	36	-3	NNE	5	N	cqv	6	1	42	34	bcq	bcqp	cq	2·5
	Blacksod Point	1018·1	40	NNE	5	bcqp	1021·9	+2	38	0	NNE	3	NE	cq	3	2	45	34	bcp	bcqp	cqp.cq	*
	Valencia ...	1017·4	43	NNW	4	b	1021·3	+3	36	-3	NE	5	N	c	3	1	47	36	c.v.	cv. bp	cpq.c	4·8
	Roche's Point	1015·6	42	N	4	o	1019·7	*	33	-6	NNW	2	N	bc	2	1	48	32	o.bc	bc.opq	cpq.bc	*
	Birr Castle ...	1016·0	38	N	2	c	1020·6	*	31	-2	N	2	N	c	*	0·3	48	31	c	cph	c	3·9
	Donaghadee ...	1012·1	38	ENE	6	c	1018·2	+2	34	-5	NE	4	NE	bc	4	1	45	33	cqp	cmqph	bcq	*
	Liverpool (Bidston)	1010·1	36	W	3	r	1015·9	+5	30	-5	N	1	–	b	2	3	41	29	c.b	os	b	3·5
	Holyhead ...	1010·5	39	NW	5	cq	1017·1	+2	35	-4	NE	7	NE	bc	7	0·2	46	32	b.bc.c	bc.op	c.bcpf	4·2
	Pembroke (St. Ann's)	1012·8	39	N	2	b	1015·6	+5	32	-6	NE	4	NE	bq	4	3	41	29	c.op.c	c.bc.b	cps.bq	4·9
	Scilly (St. Mary's)	1014·7	41	N	4	bc	1012·9	+2	36	-6	NE	6	NE	cqp	6	2	45	35	cqph	cph.bc	cpq	3·4
	Falmouth ...	1012·5	40	N	3	b	1012·2	+8	32	-4	NNE	3	–	b	*	3	44	31	b.ops.c	bc.c.bc.	b.or.bq	3·0
	Jersey (St. Aubin)	1010·5	40	N	3	b	1008·3	*	33	-6	NW	1	–	osm	1	4	42	30	osp.c.b	b	ogpsm	4·5
	Portland Bill ...	1010·2	39	N	3	bc	1010·6	+2	28	-7	NE	5	NE	c	3	2	43	28	b.bc.c	c.bc.	bc.cf	*
	Dungeness ...	1007·2	35	NNE	4	bc	1008·0	+2	30	-4	N	3	N	b	2	2	42	28	cq.c	cqs.	bc.bcx	*
	Dover	1008·0	33	NNW	4	bc	1008·8	+2	33	-1	N	5	N	b	3	1	42	30	ops.c	opsh.b	osbc.b	2·7
	Wick	1014·6	32	N	5	c	1017·7	+1	33	-1	NNW	3	–	c	4	0·1	35	28	cmqps	cmqps	bcq.cm	*
	Nairn	1013·9	33	N	5	cuq	1018·6	*	33	0	N	4	–	bc	4	2	37	30	shp.bc	csp	cpqs	2·1
	Aberdeen	1012·9	32	NNW	4	bc	1016·2	+2	32	-2	NW	4	–	s	3	1	36	29	bcspq	bcspq	bcspq	4·1
	Leith	1013·7	35	N	3	c	1017·4	+1	32	-5	NW	3	N	c	3	0·3	40	31	o.csp.c	c.bcu.c	c.cu.c	*
	Tynemouth ...	1010·6	35	NNE	4	cq	1013·7	+2	33	0	N	4	N	bcq	5	2	37	31	cmqps	cqph	cpqs	*
	Spurn Head ...	1009·0	37	NNE	5	bcpq	1010·1	+1	35	+2	NNE	5	–	bcqps	6	2	39	30	cpqs	cq	bcq	5·0
	Yarmouth ...	1006·9	35	NNE	3	bc	1009·0	+3	34	0	N	3	–	bc	2	2	41	30	bcpqs	bcpqs	bcps	2·3
	Clacton-on-Sea	1007·5	37	NW	4	bc	1009·4	+2	31	-3	NNW	3	–	b	2	–	41	29	c.o.c	c.bc	bc.bx	2·1
	Nottingham ...	1009·8	36	N	2	s	1012·8	*	31	-3	N	3	N	c	*	1	42	28	os.c	c.os	os.c	1·4
	Benson (Oxon.) ...	1009·8	35	N	1	bc	1011·4	+3	27	-6	NNE	3	–	bc	*	4	40	23	oph.c	p.bc	os.b	*
	Sth Farnborough	1008·8	35	NW	2	bc	1010·6	+3	30	-2	N	3	–	o	*	1	43	29	b.o.c	opsq.bc	bc.os.o	2·4
	London (Kew Obsy.)	1009·3	34	N	3	bc	1010·9	+4	30	-4	N	4	–	b	*	1	43	30	b.osp.o	o.c.osp.bc	bc.o.b.	1·8
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	999·7	12	W	3	b	1007·0	+3	10	+1	W	3	–	b	3	*	12	3				
	Bodö	1005·5	19	E	3	bc	1011·1	+2	14	-5	E	1	–	b	1	–	30	10				
	Christiansund ...	1007·0	32	NE	4	o	1013·3	+6	27	-1	–	o	–	b	4	7	32	25				
	Skudesnaes ...	1002·6	32	N	4	o	1009·0	+4	28	0	N	4	–	b	2	–	32	25				
	Færder (Christiania Fjord)	1001·7	27	SSE	6	c	1008·0	+3	25	-3	–	o	–	o	2	–	28	25				
	The Scaw (Skagen)	1002·0	28	S	3	o	1007·3	+5	27	+4	SE	1	–	o	2	–	28	21				
	Blaavands Huk	1001·1	28	SW	2	o	1004·4	+3	27	+6	ESE	2	–	o	2	Trace	30	18				
	Copenhagen ...	1004·2	23	–	o	o	1007·1	+4	21	+2	E	3	–	bc	*	–	25	18				
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1004·6	32	WSW	2	s	1005·2	0	34	+4	NNW	2	–	bc	3	Trace	34	30				
	C. Gris Nez ...	1006·7	34	N	4	b	1007·8	+2	34	0	N	5	*	c	4	2	41	32				
	La Hève	1009·0	34	NE	4	o	1008·7	*	34	-2	NE	2	*	s	2	2	39	32				
	Brest (St. Mathieu)	1012·7	41	N	4	c	1008·8	-2	37	-6	?	3	*	c	3	–	45	37				
	Rochefort (Ile d'Aix)	1007·3	40	NE	4	o	1008·2	o	33	-7	NE	2	*	o	*	–	46	32				
	Biarritz	1007·0	43	N	3	o	1006·0	o	34	-12	ENE	2	*	bc	3	5	46	32				
	Paris	1006·6	36	NNE	3	o	1007·0	+2	34	-2	N	2	–	c	*	1	41	32				
	Belfort							*					*		*							
	Lyons	1002·3	34	NW	4	s	1006·7	*	30		N	2	*	o	*	3	41	28				
	Nice	995·0	43	W	6	c	998·3	+2	37		E	1	*	bc	3	–	54	32				
	Perpignan ...	1003·3	43	NW	3	c	1003·5	o	39	-2	NW	3	–	b	*	Trace	50	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1014·6	*	–	o	o	1013·9	+1	56	o	NE	5	*	c	2	3	64	54				
	Madeira	1016·6	61	E	2	bc	1013·7	-1	55	+1	E	2	–	bc	2	–	61	54				
	Gibraltar	1010·5	54	NW	5	b	1007·8	*	50	-3	NW	6	*	b	4	–	59	50				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·1	+3	57	-4	–	o	N	c	3	–	66	45				
	Alexandria ...																					
	Cairo (Helwan) ...	1015·5	68	N	2	b	1019·0	+2	61		NE	1	W	bc	*	–	77	57				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F	°F	°F	mm.			
GREENWICH (Royal Observatory)	87	75	1·9	42	30	27	–	os	os	c.o.c.
CITY (Bunhill Row)	*	*	1·4	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)			0·7	43	31	28	3	o1zrs	bc.om	bcm.
CAMDEN SQ. (British Rainfall) ...	87	73	1·8	44	29	27	1	o	bcp	*
HAMPSTEAD (Reservoir)	*		2·9	41	26	20	1	bc.os	bx	bcx
S. KENSINGTON (Museum Grounds)	*		1·0	38	30	26	1	o	o.cs	cs
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
640	14·7	53·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

UPPER AIR.

South Farnborough.

Pilot Balloon Ascent at ...7.27

300 m. NNE 7 m/s

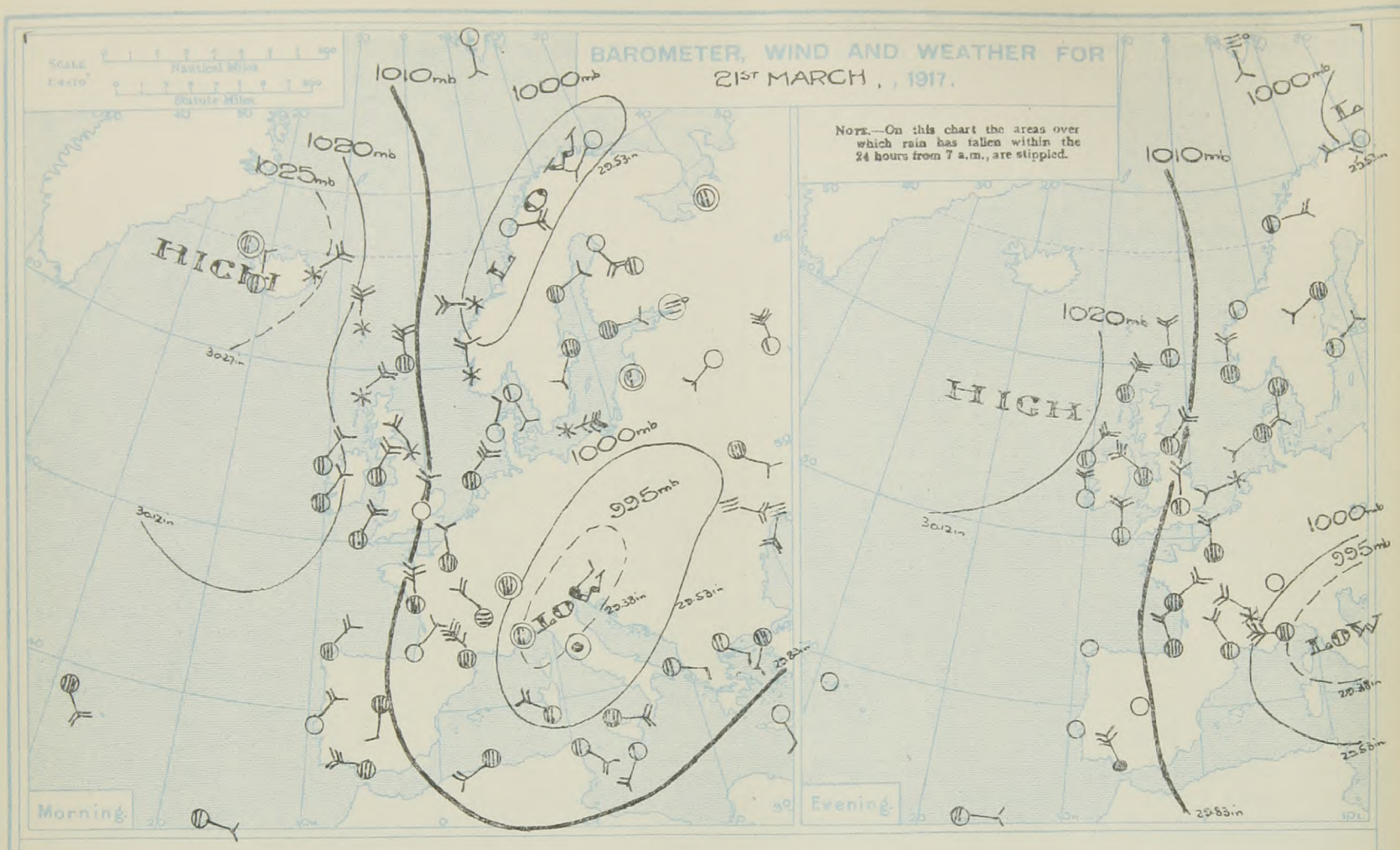
Surface N 4 m/s

RAINFALL.

Equivalents of Millimetres in Inches.

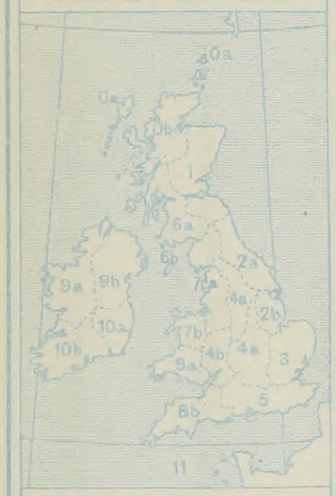
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

* 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.

No Warnings Issued

Western Channel and Bay

0 a, b; 1 — North to North-West winds, light or moderate; changeable, some snow or hail showers; cold.

2 a, b; 3 — Northerly winds, light or moderate; mostly fair,

4 a, b, c; 5 — but some snow or hail showers locally; cold.

6 a, b — Same as 0 - 1.

7 a, b — Same as 2 - 5.

8 a, b — North-Easterly and Northerly winds, fresh to light; fair generally; some hail or snow showers.

9 a, b; 10 a, b — Wind between North-West and North-East, moderate or light; local snow or hail showers, mostly fair; cold.

11 — North-East to North wind, moderate or fresh to light; sea rather rough to moderate; fair generally, some showers.

FURTHER OUTLOOK.

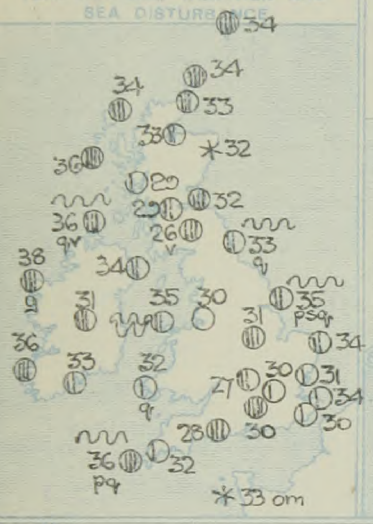
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF THURSDAY, 22ND MARCH, 1917.

GENERAL INFERENCE.

The Atlantic anticyclone will extend over the British Isles for a time, and the main wind current will continue between North-East and North-West.

TEMPERATURE, WEATHER AND SEA DISTURBANCE



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈.

LOW

1000 mb

1005 mb

1010 mb

1015 mb

1020 mb

HIGH

Barometer

Barometer ceased rising

Rising

Generally

Barometer falling

LOW

1005 mb

30.12 in.

29.27 in.

29.83 in.

29.68 in.

Scale 1:8×10⁶
Nautical Miles
Statute Miles

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

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. 7 a.m. and 9 p.m. Local Time. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning. 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.	Weather.	Past 24 Hours. Rainfall, Millimetres.	Temp. Max.	Temp. Min.
			°F.						°F.	°F.					°F	°F
R.USSIA	Archangel ...	1007·7	-13	–	0	b	1008·2	0	-17	+5	–	0	bc	–	*	-22
	Gorki	982·8	16	ENE	4	0	1004·0	–	6	-6	–	0	b	5	*	12
	Velieki Luki ...	1000·7	0	SW	2	0	1009·5	*	-9	-18	SW	2	b	–	*	-11
	Hangö	1001·9	5	–	0	b	1006·4	+1	0	+6	E	2	0	–	*	-6
	Riga	1004·8	9	NE	3	b	1008·6	+2	0	-7	–	0	b	–	*	-2
	Petrograd ...	1004·7	3	N	2	b	1008·8	+3	-15	+15	NW	1	m	–	12	-16
	Moscow	999·3	9	ESE	2	5	1004·0	+7	9	+6	NNW	7	b	1	*	3
	Kiev	1000·3	36	SW	4	0	1000·8	+1	34	0	SE	2	0	–	*	32
	Kharkov ...	1004·4	34	SSW	3	0	1004·3	+1	36	+9	SW	2	0	–	*	27
	Kishinev ...	1004·4	37	SW	1	b	1000·4	-1	32	–	SE	4	f	–	*	30
	Elisabetgrad ...	1005·1	34	SSW	4	b									*	
	Nicolaiev ...	1007·0	36	SW	2	b	1004·7	*	39	+7	S	2	0	–	*	32
	Odessa	1006·9	37	SSW	4	b	1004·0	-1	37	+5	SW	4	f	–	*	32
	Tarkhankout...						1007·0	*	45	+4	S	4	bc	–	*	41
	Soukhoum ...	1011·9	45	–	0	b	1007·7	0	52	–	ENE	2	b	–	*	45
MEDITERRANEAN.	Venice	993·5	48	NNE	1	b	994·7	*	43	+4	ENE	1	r	Trace	54	39
	Pesaro	996·9	52	S	2	r	994·6	*	48	+7	–	0	0	–	63	41
	Rome	1002·5	52	SW	2	bc	997·1	*	52	+6	–	0	r	1	58	46
	Viesti	1001·9	54	SE	1	b	998·6	*	54	+4	SW	1	0	–	63	45
	Brindisi	1004·3	52	SW	1	b	1002·5	*	50	0	SE	1	bc	–	55	50
	Cagliari	1009·1	50	WSW	5	b	999·5	*	54	+2	NW	3	bc	2	63	48
	Palermo	1009·0	54	SSE	2	c	1003·3	*	56	+1	ESE	4	0	–	64	50
	Tripoli						1009·8	*	54	-3	S	1	b	–	63	46
	Algiers	1010·0	57	SSW	3	c	1003·8	+1	55	–	SW	3	0	–		54
SWEDEN.	Hernösand ...	1007·5	27	S	2	bc	1001·5	*	10	+28	E	4	5	*	*	*
	Stockholm ...	1008·2	10	NE	2	b	1003·7	*	9	+25	SSW	2	0	*	*	*
	Wisby	1005·3	14	NNE	2	0	1005·6	*	14	+25	ENE	2	c	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		F	F			
Isafjord ...	1025·9	28	+1	–	0	bc
Reykjavik	1027·0	36	+8	–	0	c
Vestmanna	1027·7	36	+4	N	1	bc
Seydisfjord	1026·0	25	-5	NE	4	s
Thorshavn	1018·9	26	-8	N	5	s

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	–	Trace	43	32	op.bc	–	5·6
	Banff	1	Trace	37	29	cphs	cphs	3·4
	Montrose							
	Carnoustie	*	*					
	St. Andrews...	Trace	Trace	40	32	os	os	3·7
Engl. N.	Harrogate	Trace	Trace	38	31	b.bc.cs	c.os	1·6
	Skegness	2	1	39	32	ohps	bc	5·1
Engl. N.W.	Morecambe	–	Trace	36	34	–	–	2·7
	Southport	Trace	Trace	42	33	o.c.bc	bc.c.or	4·9
Midlands.	Leamington Spa							
	Malvern	–	–	42	32	c	c	4·5
	Ross-on-Wye	–	–	45	32	o	c.bc	3·3
Wales.	Rhyl	–	Trace	42	36	c.b.o	b.bcs	3·8
	Colwyn Bay...	*	*					
	Llandudno	*	*	43	37	c.b	bc	3·3
	Aberystwyth	*	*	42	36	–	–	3·0
	Tenby							

STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
	Mm.	Mm.	°F.	°F.			Hr.
England. E. Lowestoft	1	2	39	33	cqshp	cs.os	1·5
England. E. Felixstowe	1	1	41	32	bcq	bcshq	3·7
England. E. Walton-on-Naze ...	1	Trace	41	33	bc.ch.bc	bch.bc	2·5
England. E. Southend-on-Sea ...	2	Trace	42	32	o.cps	ops.bc	2·0
England, S.E. Margate	3	–	39	33	c	c.bc	1·9
England, S.E. Ramsgate							
England, S.E. Hastings	2	1	41	33	or.b.bc	os.bc	4·2
England, S.E. Eastbourne	Trace	–	43	34	b.bo	os.bc.o	2·6
England, S.E. Seaford	*	*	43	33	bc.s	s	3·4
England, S.E. Brighton	–	Trace	41	34	c.o	os.c	2·7
England, S.E. Worthing	–	1	41	–	bc.o	cr.bc	?
England, S.E. Littlehampton ...	–	–	42	34	o.bc	bc	2·7
England, S.E. Bognor	*	*					
England, S.E. Bournemouth ...	–	–	43	32	c	c	4·2
England. S.W. Weymouth... ...	*	*	45	38	bcz	bcz	3·7
England. S.W. Torquay	–	–	46	36	b.bc-o	bc.b	6·7
England. S.W. Paignton	*	*					
England. S.W. Penzance	1	Trace	45	40	phc	bc.b	4·5
England. S.W. Newquay	–	1	42	37	c.b	bhp.b	4·3
England. S.W. Bude	–	–	48	37	o.c	bc.b	6·8
England. S.W. Ilfracombe							
England. S.W. Weston-s-Mare ...	–	–	44	37	bc.c	bc	2·0

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

22nd and 23rd March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.54 / 6.52	12.0 / 12.0	6.6 / 6.8
Greenwich	6.1 / 5.59	12.7 / 12.7	6.13 / 6.15
Wick	6.13 / 6.10	12.19 / 12.19	6.25 / 6.27
Valencia	6.42 / 6.40	12.48 / 12.48	6.54 / 6.56

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° very generally during the day, and fell to below 32° at night. Snow showers were experienced at nearly all stations, but several parts of the Kingdom recorded fair amounts of sunshine.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 82 — Friday 23rd March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	1017·5	36	–	0	bc	1016·3	0	40	+6	SW	4	–	om	4	1	40	34	bc.c	c.bc	omd	*
	Deerness (Orkney)	1018·3	37	SW	2	o	1017·9	*	41	+7	SSW	2	–	fd	2	2	41	34	o	o	of	0·4
	Stornoway ...	1018·7	41	WSW	3	omm	1020·8	+2	45	+11	WNW	3	–	o	3	4	45	33	o	orm	om.op	0·0
	Castlebay (Barra Isd.)	1020·7	43	W	3	r	1022·8	+2	45	+9	–	0	–	om	1	4	45	36	o	or	orm	0·0
	Glasgow ...	1020·5	38	NNE	1	o	1023·8	+3	33	+4	SW	1	–	osq	*	0·3	43	28	c.o.bc	bc.c	opps	5·5
	Eskdalemuir ...	1019·8	34	N	3	c	1024·4	+3	29	+3	–	0	N	o	*	–	39	24	ewc.bc	bc.c	c.bc.c.o	7·4
	Malin Head ...	1022·1	41	N	3	oq	1023·4	+2	45	+9	N	3	–	om	3	3	45	36	eq	bcq	omp	2·4
	Blacksod Point	1024·4	42	N	2	bc	1026·2	+2	43	+5	NNW	3	–	oq	3	1	43	36	cq	bc	eqpom	*
	Valencia ...	1024·0	41	N	4	bc	1026·9	+2	45	+9	NNW	4	N	cp	3	–	45	36	c.bc	c.bc	bc.c	6·0
	Roche's Point	1022·4	41	NNE	3	c	1024·6	*	44	+11	N	3	–	o	2	1	45	33	bcv	bc.cv	bc.op	*
	Birr Castle ...	1022·7	40	N	1	c	1024·7	*	43	+12	N	2	–	r	*	2	43	31	c.o	c	c.or	5·8
	Donaghadee ...	1020·2	39	NNE	4	bc	1023·6	+2	35	+1	S	1	–	omr	2	2	41	34	bc	bc	ogmr	*
	Liverpool (Bidston)	1018·5	37	NW	3	c	1024·2	+3	34	+4	NNE	1	–	bc	1	–	39	30	b.	o.c	bc	5·4
	Holyhead ...	1019·3	39	N	5	b	1023·5	+2	37	+2	ENE	4	–	oq	3	–	42	34	bc.c.b	b.bu.b	o.c.bc.o	10·5
	Pembroke (St. Ann's)	1019·7	37	N	5	bcq	1023·4	+4	36	+4	E	3	E	c	2	–	43	31	bq	bcq	b.bc	9·9
	Scilly (St. Mary's)	1019·0	40	NNE	4	eq	1022·1	+1	41	+5	NNE	3	N	c	5	–	41	36	cpsbc	cq	bc.c	9·5
	Falmouth ...	1017·9	39	NNE	4	b	1021·4	+2	35	+3	NNE	2	–	b	*	–	43	31	b	b	b.bc	10·5
	Jersey (St. Aubin)	1014·0	35	N	3	bc	1018·0	*	36	+3	NE	4	NE	b	3	13	40	30	os.c.o	c.bps.b	b.osp.b	3·8
	Portland Bill ...	1013·7	39	NNE	5	bc	1019·2	+2	31	+3	NNE	4	–	bx	3	1	40	28	bc	bc	bcs.b	*
	Dungeness ...	1011·0	35	NNE	2	bc	101												bc.	cqs.bc		*
	Dover	1011·9	30	N	3	s	1018·4	+4	32	-1	N	2	N	o	6	3	42	29	b.os	ps	ops.b.o	6·6
	Wick	1019·0	38	–	0	o	1019·0	+2	39	+6	SW	1	–	r	2	3	40	33	cm.oq	oq.om	omdr	*
	Nairn	1019·5	38	–	0	cq	1020·1	*	39	+6	W	2	–	org	2	2	41	31	bc.c	cq	cp	3·0
	Aberdeen	1019·6	36	NNW	3	o	1021·6	+1	36	+4	SW	3	–	o	2	0·3	39	32	o.cspq	c.o	c.o	2·3
	Leith	1019·3	38	NE	2	o	1022·6	+1	35	+3	W	1	–	om	2	–	40	32	c.bc.b	bc.cv.o	o.c.om.o	*
	Tynemouth ...	1017·6	36	NNE	5	cpqgm	1024·0	+3	36	+3	ESE	1	E	cm	3	5	37	32	cqps	cqps	cm	*
	Spurn Head ...	1014·0	36	NNE	5	cq	1022·5	+5	35	o	ENE	4	–	c	6	–	39	31	cqps	cq	eq	4·1
	Yarmouth ...	1011·9	34	NNE	6	bcq	1019·8	+8	34	o	ENE	6	–	bcqps	6	1	41	31	bcqps	bcqps	bcqps	8·3
	Clacton-on-Sea	1011·7	34	NW	4	r	1018·9	+5	31	o	NNE	3	E	bc	2	2	39	28	bc.oqs	qsc.bc	bc.cqs	6·5
	Nottingham ...	1015·3	34	N	3	b	1023·1	*	29	-2	NE	2	NE	c	*	4	41	27	eps	cps	cps	4·6
	Benson (Oxon.) ...	1014·3	34	N	5	o	1020·6	+4	29	+2	N	2	–	bc	*	0·3	39	26	b.os	pqsv	os.c	*
	Sth Farnborough	1013·1	36	NNW	3	c	1019·6	+4	29	-1	N	2	–	bx	*	0·3	41	28	oc.o	opsq.bc.c	c.b.o.bx	6·4
	London (Kew Obsy.)	1013·5	35	N	3	bc	1020·4	+5	30	o	NNW	3	NE	bcm	*	2	39	28	b.ops.om	os.bc.os.bc	bc.os.bcm	6·5
NORTHERN EUROPE.	Spitsbergen ...	985·0	o	NW	2	o	987·4	+2	o	+22	N	3	*	o	*	*	o	-22				
	Vardö															*						
	Bodö	1009·9	27	SSE	4	bc	999·7	-3	37	+23	SSW	6	–	bc	4	–	37	12				
	Christiansund ...	1016·3	32	NW	3	o	1012·6	-2	36	+9	W	5	–	o	4	–	36	21				
	Skudesnaes ...	1017·5	32	ENE	2	b	1022·7	+1	32	+4	SE	6	–	c	4	–	36	27				
	Færder (X'tania Fjord)	1018·9	27	E	2	b	1023·3	+2	25	o	SW	1	–	bc	1	Trace	27	21				
	The Scaw (Skagen)	1016·8	27	NE	1	bc	1023·0	+3	28	+1	–	0	–	b	0	–	32	25				
	Blaavands Huk	1014·0	25	ENE	3	bc	1024·7	+6	23	-4	ENE	1	–	bc	1	–	34	16				
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1009·2	34	N	4	bc	1021·5	+7	30	-4	ENE	5	–	b	3	1	36	28				
	C. Gris Nez ...	1010·1	32	N	2	bc	1015·9	+4	31	-3	NE	3	*	c	2	3	41	27				
	La Hève	1012·2	34	N	3	bc	1017·0	*	34	o	NE	3	*	s	2	–	39	30				
	Brest (St. Mathieu)	1016·4	40	NE	5	bc	1020·3	+2	33	-4	NE	4	*	s	3	–	43	32				
	Rochefort (Ile d'Aix)	1009·7	43	NE	4	o	1013·2	+3	33	o	ENE	4	*	bc	*	–	46	32				
	Biarritz	1008·3	43	NNE	3	c	1011·7	+1	36	+2	ESE	3	*	o	2	–	48	34				
	Paris	1010·0	32	NE	3	b	1015·1	+4	30	-4	NE	1	–	o	*	Trace	43	28				
	Belfort	1009·3	30	E	2	s	1013·1	*	28	+3	E	2	*	c	*	1	35	25				
	Lyons	1008·0	32	NW	2	o	1011·8	*	30	o	NNW	3	*	b	*	–	37	27				
	Nice	1003·0	46	–	o	r	1005·9	+1	39	+2	E	1	*	o	3	1	48	32				
	Perpignan ...	1006·3	41	WNW	2	c	1009·7	+1	37	-2	NW	3	–	b	*	–	50	34				
	Sanguinaire ...	*	50	W	3	o	*	*	45	-1	E	2	*	r	5	4	52	41				
SOUTHERN STATIONS.	Corunna	1011·7	45	NNW	2	c	1020·8	+4	45	o	NNE	4	–	c	3	6	48	41				
	Madrid														*							
	Lisbon	1015·8	50	NNW	5	bc	1015·4	+1	45	o	ENE	3	–	bc	5	1	54	37				
	Azores (Horta) ...	1015·7	*	NE	4	o	1021·0	+3	55	-1	NE	5	*	o	3	–	59	54				
	Madeira	1014·1	59	E	2	o	1017·3	o	55	o	E	2	–	o	2	–	61	54				
	Gibraltar	1011·2	49	NW	5	o	1012·8	*	47	-3	NW	5	*	b	3	4	60	46				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1021·2	+1	57	o	–	o	–	b	4	–	70	46				
	Alexandria ...	1021·6	63	ENE	3	bc	1022·7	o	66	+3	ENE	2	E	b	1	–	79	57				
	Cairo (Helwan) ...	1018·9	66	NE	5	b	1020·0	+3	61	o	NE	3	SW	bc	*	–	79	57				

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	89	91	7·1	42	28	24	1	b	ods	b
CITY (Bunhill Row)	*	*	6·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	85	82	5·4	42	31	26	1	os.bc	bc	os.b.bm
CAMDEN SQ. (British Rainfall) ...	93	83	6·5	42	28	26	1	bc	bc	*
HAMPSTEAD (Reservoir)	*	91	7·3	38	25	20	1	bcs	bc	os.x
S. KENSINGTON (Museum Grounds)	*	72	5·5	40	29	25	1	b b	b.s.bc	bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
987	22·5	60

Temperatures at Greenwich and Camden Square are from Glaisher screens.

UPPER AIR

South Farnborough. Pilot Balloon Ascent at ... 7.7 ...

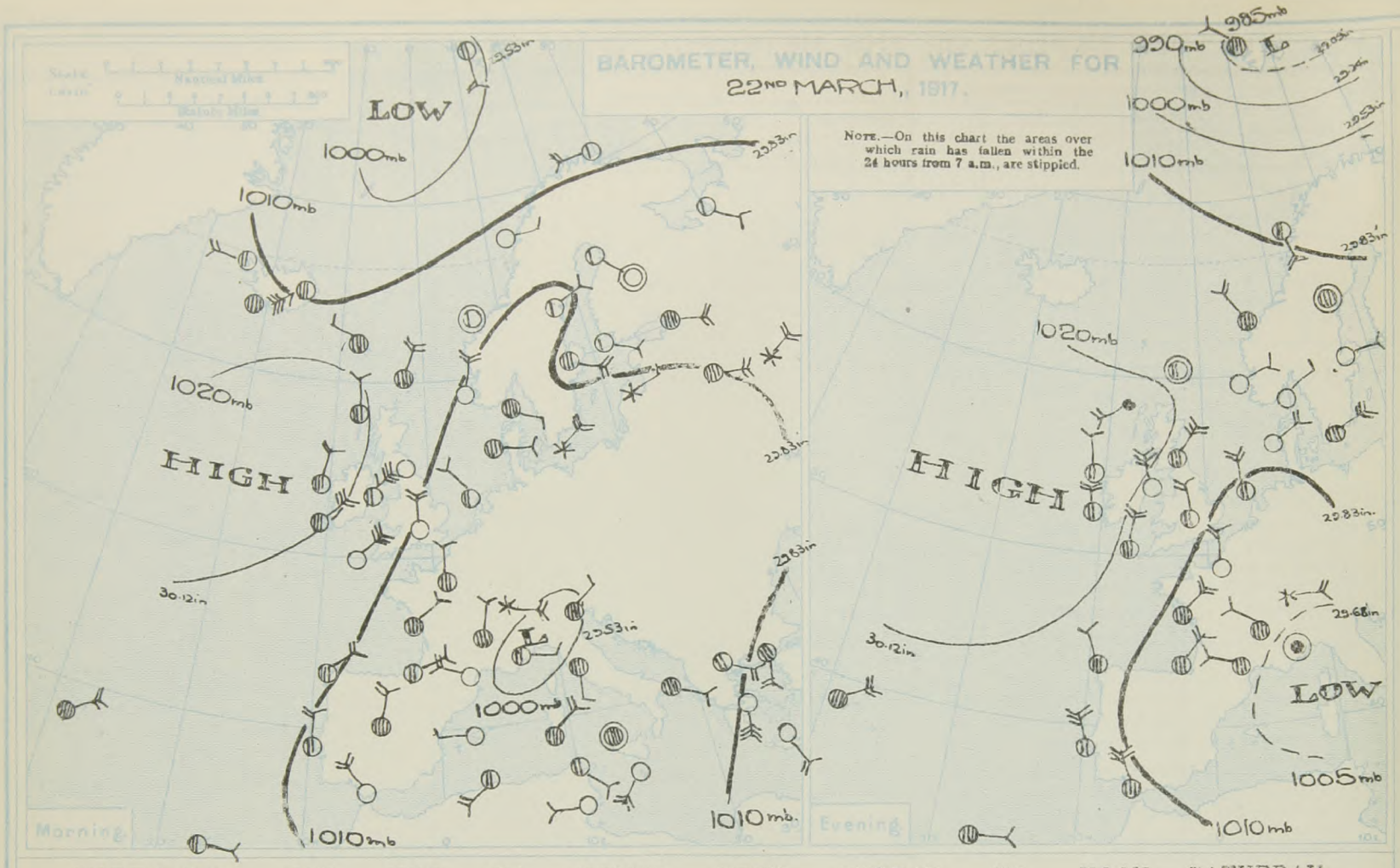
1200 m:	NE	14 m/s
900 m:	NE	13 m/s
600 m:	NE	13 m/s
300 m:	NNE	10 m/s
Surface	N by E	5 m/s

RAINFALL.

Equivalents of Millimetres in Inches.

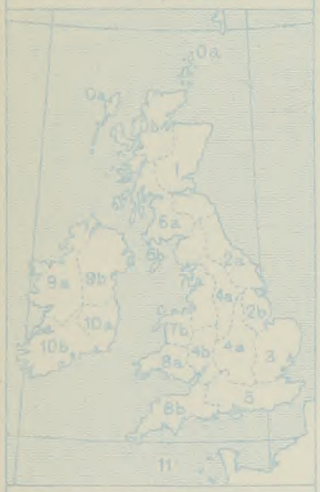
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued

Western Channel and Bay

0 (a, b) } South-West to North-West or North winds, light to moderate; rain, sleet or snow, then fairer and colder.

1

2 (a, b) }
3 } Wind between North and North-East, light or moderate, fresh and squally at times; variable sky,
4 (a, b, c) } some snow or hail showers; cold.
5

6 (a, b) }
7 (a, b) } Wind mainly between North and North-West, light or moderate; unsettled, some rain or snow; then fairer; cold.

8 (a, b) } North and North-East winds, light or moderate; fair generally, local snow showers; cold.

9 (a, b) }
10 (a, b) } Northerly winds, moderate; variable sky; some rain, sleet or snow showers; cold.

11 } North-Easterly winds, moderate; sea moderate; fair generally.

FURTHER OUTLOOK.

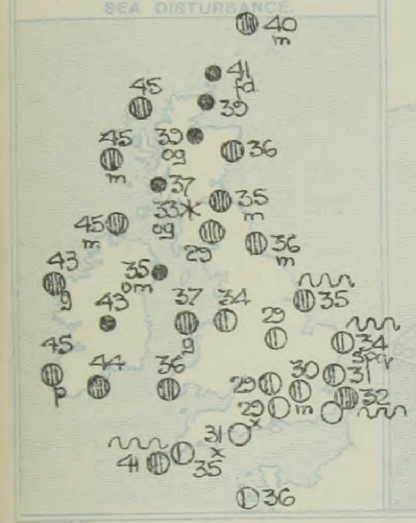
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 23RD MARCH, 1917.

GENERAL INFERENCE.

No great change appears probable in the general situation, but the Atlantic anticyclone seems likely to extend somewhat over these Islands.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

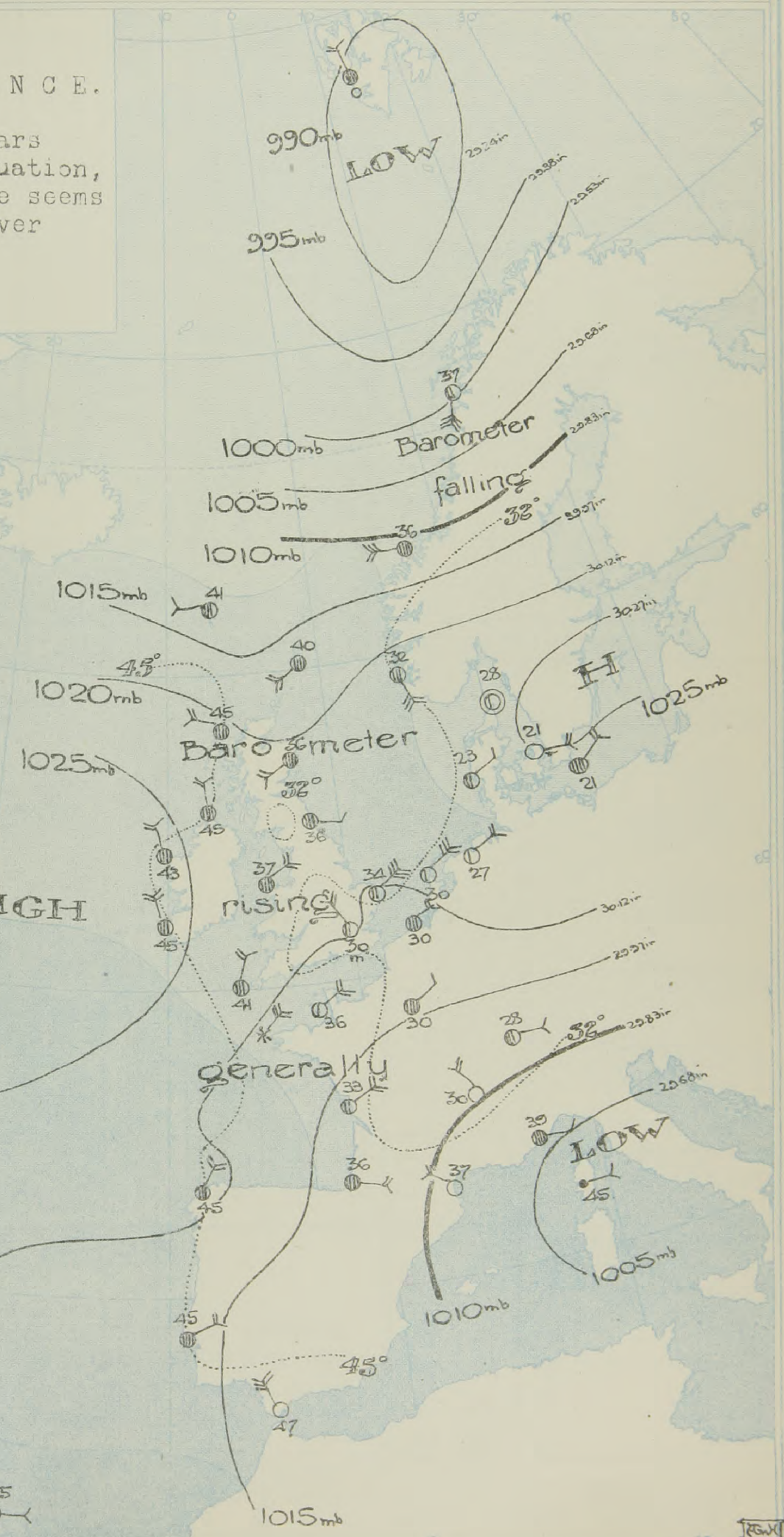
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols:—
○ clear sky. ◔ sky 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 MARCH.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...						1019·3	+6	-22	-5	SE	2	b	—	*	-27
	Gorki						1002·9	—	12	+6	E	4	c	6	*	6
	Velieki Luki ...	1011·7	3	SE	2	b		*							*	
	Hangö	1010·4	5	—	0	b	1012·0	0	1	+1	ESE	2	b	—	*	?
	Riga	1009·3	4	—	0	b	1006·7	+1	7	+7	ENE	1	s	—	*	0
	Petrograd ...	1015·3	5	ESE	3	b	1016·2	0	0	+15	E	3	c	—	12	-16
	Moscow	1016·7	5	E	2	b	1014·0	-3	9	0	ENE	4	s	2	*	3
	Kiev														*	
	Kharkov ...														*	
	Kishinev ...														*	
	Elisabetgrad ...														*	
	Nicolaiev ...							*							*	
	Odessa														*	
	Tarkhankout...							*							*	
	Soukhoum ...														*	
Mediterranean.	Venice	995·4	43	ENE	2	o	998·6	*	39	-4	NNE	1	o	5	46	37
	Pesaro	994·7	46	—	0	r	1000·2	*	41	-7	SW	2	b	3	55	36
	Rome	999·1	50	SW	1	bc	1001·7	*	48	-4	S	1	o	1	57	46
	Viesti	999·8	50	SE	1	c	1002·1	*	50	-4	S	2	o	1	55	48
	Brindisi	1003·0	55	SE	2	b	1003·3	*	55	-5	SE	2	o	—	63	50
	Cagliari						1002·2	*	55	+1	NE	3	o	3	61	50
	Palermo	1003·0	55	E	2	bc	1004·5	*	52	-3	—	0	o	—	66	48
	Tripoli						1007·0	*	62	+8	S	1	b	—	71	54
	Algiers	1005·5	50	WNW	3	r	1005·0	0	50	-5	SW	3	bc	8	59	46
Sweden.	Hernösand ...	1002·7	18	SW	2	o	1011·5	*	?	—	NE	2	s	*	*	*
	Stockholm ...	1006·6	16	ESE	2	b	1011·1	*	?	—	ESE	4	c	*	*	*
	Wisby	1004·8	16	NE	2	b	1006·7	*	?	—	ENE	2	b	*	*	*

Iceland	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...	1010·6	46	+18	W	3	bc
Reykjavik	1014·7	41	+5	—	c	f
Vestmanna	1016·4	43	+7	—	o	o
Seydisfjord	1008·3	47	+22	SW	8	c
Thorshavn	1016·8	33	+7	WNW	1	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	—	—	44	28	b.bc	o	0·6
	Banff	1	—	39	30	o.c	c.o	1·9
	Montrose	—	—	40	27	bc	bc	2·0
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	5	2	35	26	b.bcs.c	os.c	4·0
	Skegness	Trace	Trace	39	29	bch	bcs	5·1
Eng. N.W.	Morecambe							
	Southport	5	—	41	29	b.c.bc	bc.c.b	6·4
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	5	—	42	23	bsx	c.bc	8·1
Wales.	Rhyl	3	—	39	32	os.c	c.bc.c	6·5
	Colwyn Bay...	*	*	40	33	c	bc	7·3
	Llandudno	*	*	41	33	b	b	9·2
	Aberystwyth	*	*	40	29	or.c	b.bc	9·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	Trace	40	30	bc.eph	cph.bc	8·6
	Felixstowe	1	1	41	28	bcs	besh	7·2
	Walton-on-Naze	—	1	41	28	b.bzps	b.bps.bc	6·8
	Southend-on-Sea	—	1	41	28	b.bc.c	bc.c.os	7·0
England, S.E.	Margate	Trace	1	38	32	b	chsq	5·9
	Ramsgate							
	Hastings	—	3	41	29	b	b.bc.os	8·3
	Eastbourne	—	Trace	43	29	b.bc	b.bc.os	7·6
	Seaford	*	*	44	29	bc	bcs	7·7
	Brighton	—	1	43	30	b.c	cs.bc	7·9
	Worthing	—	—	42	30	bc	bcs.b	8·7
	Littlehampton	—	1	42	31	o.bc	bcs	8·5
	Bognor	*	*					
	Bournemouth	8	—	43	28	c.b	bc	6·4
England. S.W.	Weymouth...	*	*		?27	bz	b.bcz	?7·8
	Torquay	2	—	45	32	bc.b	b	9·8
	Paignton	*	*					
	Penzance	1	—	43	35	bc	bc	10·2
	Newquay	2	—	40	33	b	b	10·1
	Bude	3	—	44	32	b	b	10·3
	Ilfracombe	—	—	43	32	bc	bc	7·8
	Weston-s-Mare	3	—	43	29	b	b.bc	8·8

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

23rd and 24th March, 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	5.52	12.0	6.8
	5.50	12.0	6.10
Greenwich	5.59	12.7	6.15
	5.57	12.7	6.17
Wick	6.10	12.19	6.27
	6.7	12.19	6.30
Valencia	6.40	12.48	6.56
	6.36	12.48	6.58

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° at several stations. Snow showers fell very generally, and a considerable quantity of rain at Jersey. Much bright sunshine was recorded — more than 10 hours in some Western and South-Western 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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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 83

Saturday 24th March

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.				‡		°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1018·5	45	W	2	cmd	1018·9	0	43	+3	SW	3	W	bc	3	2	46	41	cmd	cmd	bc	*
	Deerness (Orkney)	1021·3	46	W	3	o	1021·7	*	43	+2	SW	3	–	omr.	2	2	48	41	fd.o	o	omr.	0·1
	Stornoway ...	1024·3	48	WNW	3	bc	1024·0	0	45	0	WSW	3	–	o	3	0·4	51	43	odm	odm.bc	bc.opd	0·0
	Castlebay (Barra Isd.)	1026·8	47	NW	2	cm	1027·1	0	46	+1	W	3	–	o	3	0·3	50	45	o.bqpm	bcm	cm o.cg	3·8
	Glasgow ...	1026·8	37	WSW	2	cmg	1028·2	0	39	+6	SW	1	NW	cm	*	2	39	33	ors	omdp	ome	0·0
	Eskdalemuir ...	1026·9	36	SW	3	o	1029·3	+1	34	+5	—	0	–	cm	*	–	37	29	o.os.o	o oe o	o.om	0·0
	Malin Head ...	1026·1	46	N	3	bcm	1029·0	0	42	+3	NW	2	NW	bc	2	0·3	47	42	cgp	bc	bc	0·8
	Blacksod Point	1028·8	46	NNW	2	bc	1031·5	0	45	+2	NNW	1	–	cmd	2	1	48	42	cgp	c. c	bc. bc	*
	Valencia ...	1028·9	47	N	3	c	1032·6	+2	45	0	NE	1	N	c	2	0·4	50	44	opb. ev	ev	ep. c	0·6
	Roche's Point	1028·4	39	SSW	1	o	1031·2	*	44	0	NNW	2	–	o	2	2	45	39	od	od	op.om	*
	Birr Castle ...	1027·8	46	NNE	1	c	1031·7	*	41	-2	NW	1	–	r	*	1	51	41	o	o.c	o.odr	0·5
	Donaghadee ...	1026·2	39	SW	2	ofd	1028·9	+2	42	+7	SW	2	–	om	1	3	42	35	omr	ofd	ofp.om	*
	Liverpool (Bidston)	1027·6	36	NNE	1	s	1029·9	0	35	+1	—	0	–	o	1	t	40	34	bm	bm	o	5·1
	Holyhead ...	1027·5	39	N	3	c	1029·8	0	39	+2	S	2	–	omg	1	Trace	45	37	c.o.bc	c.bcg	c.bepd	0·6
	Pembroke (St. Ann's)	1027·6	38	NNE	3	bc	1031·0	+2	36	0	NE	1	NE	c	1	–	44	34	c.bc.b	b bc	b.bc.c	5·7
	Scilly (St. Mary's)	1026·8	39	ENE	3	bc	1031·0	+1	37	-4	NE	1	N	bcm	3	–	43	34	c.bc	c	bc b bc	5·9
	Falmouth ...	1026·8	40	ENE	2	bz	1030·5	+1	30	-5	NE	1	–	bx	*	–	45	29	b	b	bx	9·3
	Jersey (St. Aubin)	1021·8	40	NE	4	c	1028·1	*	35	-1	NE	5	NE	b	3	0·4	41	34	bcsp.b	csp	bb	7·0
	Portland Bill ...	1024·7	38	NNE	4	bc	1029·0	+1	32	+1	NE	4	–	b	3	–	41	29	b.bc	bc	bc.b	*
	Dungeness ...	1023·5	36	E	5	b	1028·6	0	33		ENE	5	NE	bc	3	–	40	28	c.b.	bc.	bcbc	*
	Dover	1024·9	33	NNE	5	c	1027·8	+3	33	+1	NE	4	E	bc	4	–	39	30	ops.bc	bec	bc	7·3
	Wick	1022·5	47	NW	2	o	1022·8	-1	43	+4	W	2	–	o	2	0·4	50	38	omr.og	omg	eb.omg	*
	Nairn	1023·1	48	WSW	1	cy	1024·9	*	41	+2	W	1	–	bc	1	2	51	38	ep.bc	bc	c.bc	1·8
	Aberdeen	1023·7	46	WSW	1	o	1025·4	+1	40	+4	WSW	2	–	b	2	2	47	36	omr.	omrs	o.c.b	0·0
	Leith	1025·6	39	W	1	o	1027·2	0	41	+6	W	1	W	c	2	0·3	42	35	omsp.o	o.epg.o	ogu.c	*
	Tynemouth ...	1026·1	39	S	2	cm	1027·6	0	39	+3	WNW	2	N	cm	3	–	41	35	cm	cm	bcm	*
	Spurn Head ...	1028·1	34	SE	2	b	1029·5	0	31	-4	WSW	1	–	cx	3	–	38	30	bc	bc	b	2·8
	Yarmouth ...	1027·1	33	ENE	3	bc	1029·3	0	31	-3	NE	2	–	bc	3	–	36	30	beqps	beps.c	bc	3·0
	Clacton-on-Sea	1026·1	34	ENE	3	c	1029·1	+2	28	-3	NNW	2	N	bc	1	–	39	27	bc.c	c.	c.bcx	2·8
	Nottingham ...	1027·8	35	E	2	b	1029·8	*	25	-4	WSW	1	SW	bmx	*	–	39	23	b. o	o.c.b.	b	4·7
	Benson (Oxon.) ...	1026·7	36	NNE	3	bc	1029·4	+1	21	-8	–	0	–	bx	*	–	39	19	o bqps	bc	b	*
	Sth Farnborough	1025·6	35	NE	2	b	1029·5	+1	25	-4	N	1	–	bx	*	Trace	39	22	o.bqps.	qps.o.b.	bx	4·4
	London (Kew Obsy.)	1026·8	36	ENE	3	bcm	1030·0	+1	27	-3	N	2	–	bmx	*	0·3	39	26	bcm.oms	oms.o.bm	bcm.bmx	3·1
NORTHERN EUROPE.	Spitsbergen ...	997·0	0	–	0	o	1000·8	+1	0	0	N	3	*	o	*	*	+5	-4				
	Vardö	991·3	27	W	1	o	997·0	+3	27	+11	NW	5	–	o	b	*	27	9				
	Bodö	1003·8	37	W	4	c	1006·0	0	37	0	SSW	4	–	o	2	–	39	34				
	Christiansund ...	1015·4	39	W	5	o	1014·9	-2	43	+7	SW	3	–	o	5	3	39	23				
	Skudesnaes ...	1024·3	36	SE	3	bc	1022·4	-2	36	+4	SW	3	–	f	3	2	37	30				
	Færder (Christiania Fjord)	1020·6	32	SW	2	c	1019·7	-1	32	+7	WSW	1	–	c	2	–	32	23				
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Copenhagen ...														*							
	Bornholm ...																					
FRANCE, &c.	The Helder ...	1026·9	32	NE	4	b	1029·5	+2	30	0	ENE	3	–	b	1	–	34	28				
	C. Gris Nez ...	1023·3	34	NE	5	bc	1028·3	+2	31	0	E	4	*	o	3	3	37	31				
	La Hève	1023·5	36	NE	3	c	1026·9	*	30	-4	NE	3	*	bc	2	–	39	28				
	Brest (St. Mathieu)	1023·8	39	E	4	b	1029·3	+1	34	+1	E	3	*	c	3	–	43	32				
	Rochefort (Ile d'Aix)	1017·1	37	ENE	6	c	1022·9	+2	32	-1	NE	6	*	b	*	–	43	32				
	Biarritz												*									
	Paris	1019·1	39	NNE	3	b	1022·7	+1	28	-2	NNE	4	–	b	*	–	45	28				
	Belfort							*					*		*							
	Lyons	1012·4	36	N	3	o	1013·5	*	32	+2	NNW	4	*	o	*	–	43	30				
	Nice	1007·3	40	SW	3	c	1007·8	0	36	-3	–	0	*	r	3	1	46	34				
	Perpignan ...	1009·5	41	NNW	2	b	1013·2	+2	37	0	NW	3	–	b	*	–	50	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon	1018·0	50	N	6	b	1021·6	+1	43	-2	SW	3	–	b	5	–	54	43				
	Azores (Horta) ...	1023·4	*	NE	5	o	1026·7	+1	56	0	SE	5	*	o	3	–	59	54				
	Madeira	1019·9	61	E	3	c	1022·6	-2	55	0	E	3	–	o	3	–	63	50				
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·4	0	57	0	W	1	–	b	3	–	70	46				
	Alexandria ...	1020·1	63	NNE	3	b	1020·3	+1	64	-2	NE	2	E	bc	1	–	75	57				
	Cairo (Helwan) ...	1017·3	63	NE	3	b	1015·4	+1	63	+2	NE	2	–	b	*	–	75	55				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7:6...

3700 m:	NE	18 m/s
3400 m:	NE	18 m/s
3000 m:	NE	16 m/s
2700 m:	NE	17 m/s
2400 m:	NE by E	17 m/s
2100 m:	NE	14 m/s
1800 m:	NE	11 m/s
1500 m:	NE by N	11 m/s
1200 m:	NE by N	9 m/s
900 m:	NE by N	8 m/s
600 m:	NE by N	8 m/s
300 m:	NE by N	5 m/s
Surface	N	2 m/s

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	*	*		*	*	*	*	*	*	*
CITY (Bunhill Row)										
WESTMINSTER (St. James's Park)										
CAMDEN SQ. (British Rainfall) ..										*
HAMPSTEAD (Reservoir)	*									
S. KENSINGTON (Museum Grounds)	*		3·0	40	27	22	Trace			
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

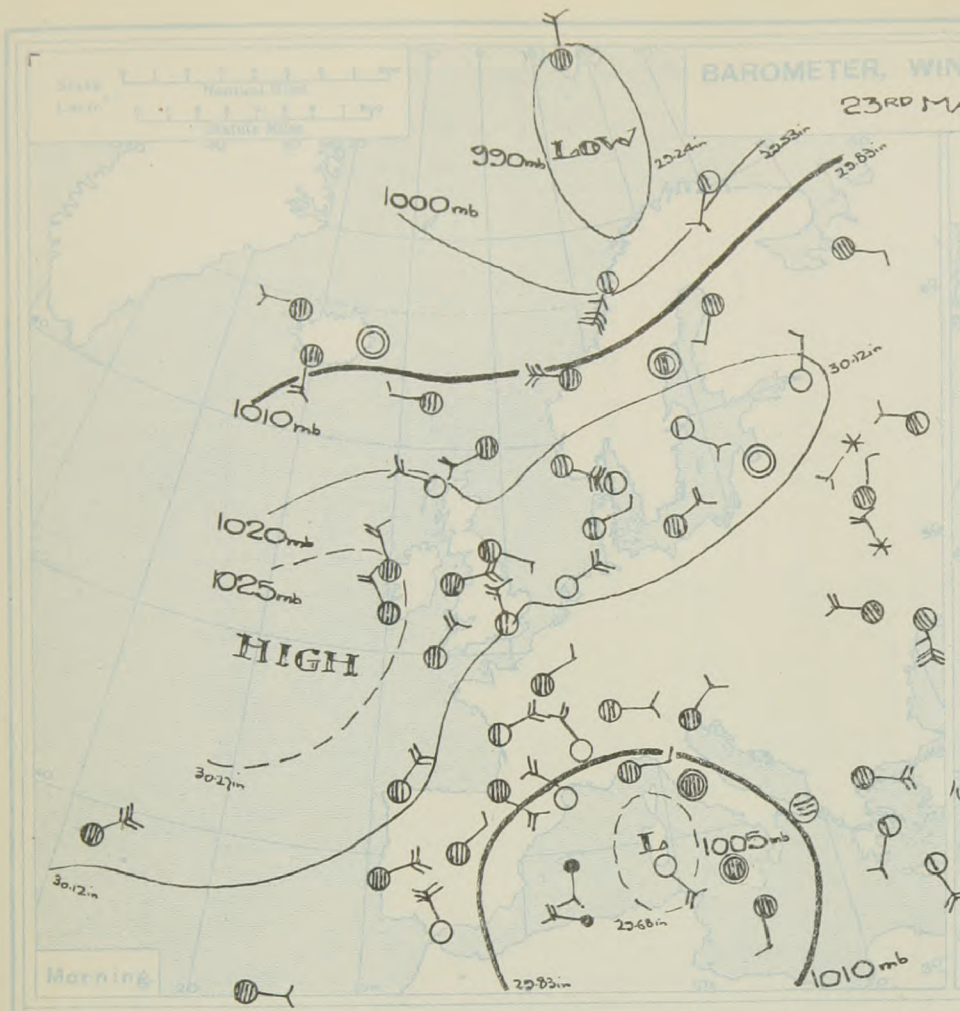
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.

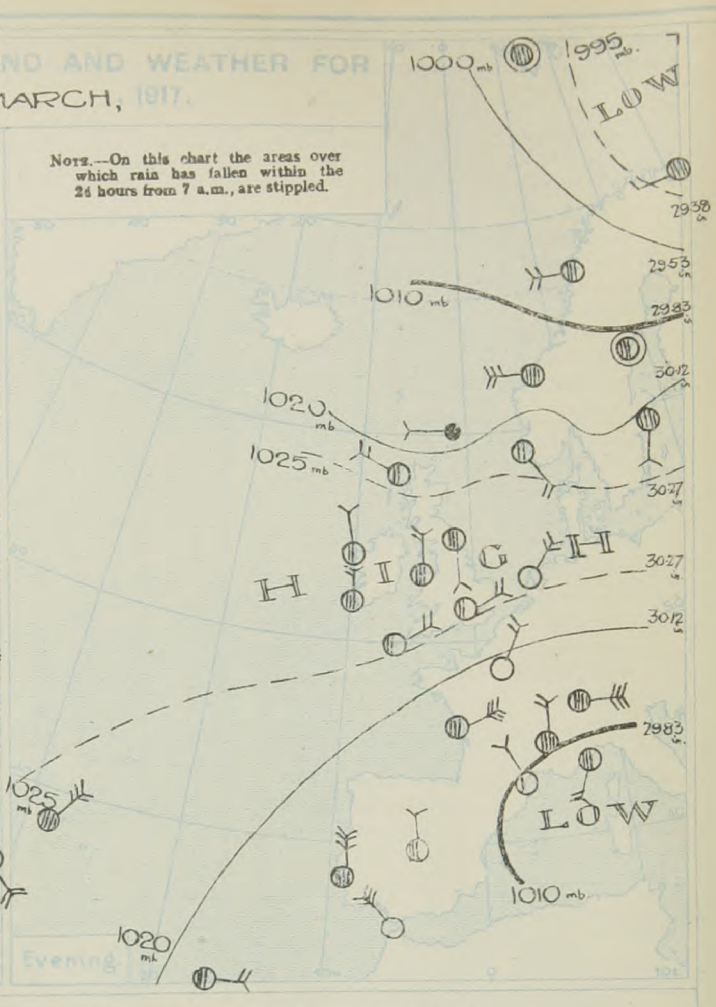
Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 23RD MARCH, 1917.



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



Morning

Evening

FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

STORM WARNINGS.

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

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

No Warnings Issued

Western Channel and Bay

0 a, b } Westerly winds, light or moderate; variable

1 sky, some showers; moderate temperature.

2 a, b } Light variable winds; fair; less cold.

3 { North-Easterly and Northerly winds, light or moderate; fair; temperature rising.

4 a, b, c } Same as 2.

5 Same as 3.

6 a, b
7 a, b
8 a, b } Wind mainly between North and North-West or West, light or moderate; fair generally, dull at times, mist locally; temperature
9 a, b rising somewhat.
10 a, b

11 { North-Easterly and Northerly winds, light; sea slight; fair generally.

FURTHER OUTLOOK.

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

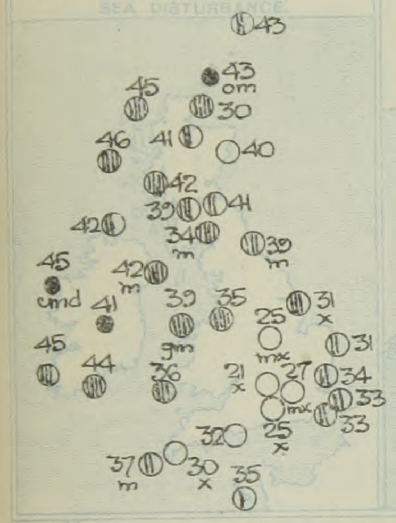
NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 24TH MARCH, 1917.

GENERAL INFERENCE.

Pressure will continue more uniform than of late and the general condition of the weather fairer and quieter, with less low temperature during the daytime.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ~~.

LOW
1000 mb
29.53in
1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
1030 mb
29.97in
29.83in
29.97in
30.12
45° 38°
Barometer
scarcely
changing
HIGH
30.42in
LOW
29.63in
29.97in
30.27in
30.12in
1025 mb
1020 mb
1015 mb
1010 mb
32°
38°

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

Issue No. 20,211 — DAILY WEATHER REPORT. — Saturday, 24th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1020·4	18	S	2	b	1017·2	−3	13	+35	SE	1	b	—	×	−22
	Gorki						1014·6	—	16	+4	N	1	o	—	×	10
	Velieki Luki	1006·2	21	—	o	f	1017·7	×	10	+7	SW	2	s	—	×	3
	Hango	1018·0	14	—	o	b									×	
	Riga	?	14	WNW	2	o	1021·1	+5	3	−4	—	o	b	—	×	1
	Petrograd	1016·7	10	?N	3	bc	1020·3	+5	−4	−4	N	2	b	—	16	1
	Moscow	1009·1	18	NE	2	o	1011·5	+4	19	+10	WNW	2	c	7	×	9
	Kiev	1008·7	36	NW	3	f	1013·1	+5	28	—	N	3	s	—	×	28
	Kharkov	1011·8	45	S	3	b	1013·0	−1	39	—	SE	2	o	—	×	39
	Kishinev	1004·8	48	S	1	b	1011·0	+5	37	—	NW	3	o	—	×	37
	Elisabetgrad	1009·6	39	S	2	f	1010·3	+1	36	—	SE	2	f	—	×	36
	Nicolaiev	1009·3	43	SW	2	b	1011·7	×	43	+9	SSW	1	c	—	×	34
	Odessa	1009·1	43	SW	4	b	1011·9	+5	43	+4	SW	2	o	—	×	39
	Tarkhankout	1013·0	48	S	5	b	1015·4	×	48	—	S	4	b	—	×	46
	Soukhoum														×	
Mediterranean.	Venice	1005·8	41	—	o	b	1010·6	×	41	+2	NE	2	o	Trace	46	39
	Pesaro	1006·9	43	NE	1	r	1010·5	×	43	+2	—	o	r	12	48	39
	Rome	1007·3	48	S	1	bc	1007·5	×	50	+2	—	o	o	1	57	43
	Viesti	1007·7	52	SSW	1	b	1011·1	×	50	o	E	1	bc	—	57	48
	Brindisi	1008·1	50	—	o	b	1012·3	×	48	−7	—	o	m	—	64	50
	Cagliari	1006·5	57	NW	4	b	1004·9	×	53	−2	SE	3	o	1	63	50
	Palermo	1007·0	55	WSW	1	o	1007·5	×	46	−6	—	o	o	—	63	41
	Tripoli						1005·4	×	70	+8	S	1	b	—	86	55
	Algiers	1005·0	52	SSW	4	r	1009·1	+4	46	−4	WNW	4	r	8	64	45
Sweden.	Hernösand	1019·5	10	—	o	o	1017·1	×	12	—	—	o	c	×	×	×
	Stockholm	1017·9	14	E	2	b	1024·3	×	10	—	ESE	2	b	×	×	×
	Wisby	1013·6	14	NE	2	b	1021·6	×	14	—	NE	2	b	×	×	×

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	‡			
Isafjord	1005·9	43	−3	W	2	c
Reykjavik	1009·6	48	+2	S	3	o
Vestmanna						
Seydisfjord	1008·3	41	−6	—	o	b
Thorshavn	1013·6	41	+8	W	1	c

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	2	1	43	28	or	o	0·0
	Banff	1	1	50	32	odr.o	o.c	0·0
	Montrose	—	Trace	43	32	o	o	0·0
	Carnoustie	×	×					
	St. Andrews	—	Trace	48	32	op	op	0·0
Eng. N.E.	Harrogate	1	—	40	23	b	bc.b	9·0
	Skegness	—	—	37	30	o.bc	b	3·8
Eng. N.W.	Morecambe	—	—	42	34	—	—	5·1
	Southport	—	—	43	32	c.bc	bc.c.b	6·3
Midlands.	Leamington Spa							
	Malvern	1	—	39	28	b.bc	bc.b	7·4
	Ross-on-Wye	1	—	42	29	bcx	bc.b	7·5
Wales.	Rhyl	—	—	45	33	c.o	bc.c.bc	7·2
	Colwyn Bay	×	×	42	35	bc	bc	8·5
	Llandudno	×	×	43	36	b	b	7·3
	Aberystwyth	×	×	41	34	o.c	bc.c	8·5
	Tenby	×	×					
England. E.	Lowestoft	1	—	36	30	c	c	2·0
	Felixstowe	2	Trace	37	28	bcqp	c.bc	2·2
	Walton-on-Naze							
	Southend-on-Sea	1	—	40	27	bc.c.os	bc.c.o	3·1
England, S.E.	Margate	2	—	37	31	bc.c	bc.b.bc	6·1
	Ramsgate							
	Hastings	2	1	40	26	b.bc.b	b	8·7
	Eastbourne	2	—	43	27	b.bc	bc.b	8·8
	Seaford	×	×	43	27	bcs	bc	8·5
	Brighton	—	—	44	28	c	c	9·5
	Worthing	—	—	43	29	bc	bc.b	8·6
	Littlehampton	—	—	43	29	bc	bc	7·2
	Bognor	×	×					
	Bournemouth	2	—	42	27	b	b.bc	7·8
England. S.W.	Weymouth	×	×	41	29	bxs	bx	7·0
	Torquay							
	Paignton	×	×					
	Penzance	—	—	45	37	bc	bc	7·0
	Newquay	—	—	48	33	b	b	8·0
	Bude	—	—	44	33	b	b	9·7
	Ilfracombe	—	—	43	35	b	b	10·2
	Weston-s-Mare	—	—	42	30	b.bc	b.bc	7·5

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

24th and 25th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.50 / 5.48	12.0 / 11.59	6.10 / 6.11
Greenwich	5.57 / 5.54	12.7 / 12.6	6.17 / 6.18
Wick	6.7 / 6.4	12.19 / 12.18	6.30 / 6.33
Valencia	6.38 / 6.35	12.48 / 12.47	6.58 / 6.59

NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 40° over a wide area in England, and local snow showers were again experienced in many districts. Bright sunshine was rather abundant in most parts of England, but in Ireland and Scotland there was little.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 84 (Sunday 25th March.

	STATIONS.	YESTERDAY EVENING					THIS MORNING.								PAST 24 HOURS.					Sunshine for Yesterday
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F	°F							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·0	45	W	5	smq	1004·2	−5	42	−1	WSW	3	—	omp	3	3	46	40	bc.op	ompqr	omp	*
	Deerness (Orkney)	1016·9	46	W	6	sqr	1007·1	*	45	+2	W	6	—	dm	6	4	48	42	omr.c	cp.cd	c.ordm	0·6
	Stornoway ...	1021·1	50	W	6	oq	1012·0	−7	46	+1	W	6	—	oq	5	3	52	44	bc	bc.odpq	odpq	0·0
	Castlebay (Barra Isd.)	1026·4	48	W	4	opm	1018·5	−5	47	+1	SW	5	SW	om	5	0·4	48	46	opm	opm	op.ome	0·1
	Glasgow ...	1025·7	46	WSW	1	o	1019·3	−2	44	+5	W	3	—	o	*	0·2	47	39	cmo.dp	om	ocd.po	0·6
	Eskdalemuir ...	1025·9	46	W	3	o	1020·0	−2	44	+10	S	3	—	o	*	—	50	34	om.bc.o	o	ocd.o	2·5
	Malin Head ...	1027·7	46	NW	4	omd	1022·4	−2	44	+2	W	4	—	odm	5	2	48	42	cq	omd	om	1·2
	Blacksod Point	1031·4	47	W	3	bcm	1026·8	−4	46	+1	W	4	—	ome	3	0·3	51	44	bc	cm	ome.om	*
	Valencia ...	1033·3	49	NNW	3	o	1030·1	−2	47	+2	N	3	NW	o	3	—	51	44	coc	co.op	o	3·6
	Roche's Point	1031·4	49	NNW	3	o	1028·7	*	46	+2	NW	4	—	o	3	—	54	43	o.	oq	o	*
	Birr Castle ...	1030·7	49	NW	2	o	1027·3	*	45	+4	NW	1	—	o	*	0·1	53	41	co	o	od.o	2·4
	Donaghadee ...	1027·3	47	WNW	2	ogm	1022·6	−1	46	+4	NW	3	NW	cqm	2	0·1	52	41	ogm	opgm	ogm.cq	*
	Liverpool (Bidston)	1027·9	42	W	2	c	1022·9	−2	42	+7	W	3	—	om	3	1	44	35	om	o/a	om	0·0
	Holyhead ...	1028·3	47	N	3	c	1024·0	−2	45	+6	NW	6	NW	o	5	0·2	50	39	ocf	co	c.opdo	0·6
	Pembroke (St. Ann's)	1029·4	44	N	2	c	1026·2	−3	44	+8	NW	3	—	od	2	0·3	48	35	c.o.c	o.c.o	op.ep	0·6
	Scilly (St. Mary's)	1029·7	45	NNE	4	o	1027·3	−2	46	+9	NNE	3	N	cm	4	1	48	40	bc.c	c.o	c.omp.c	2·2
	Falmouth ...	1028·5	43	N	3	o	1025·6	−2	44	+14	N	3	N	o	*	—	47	29	b.bc	c.bc.c.o	o	7·5
	Jersey (St. Aubin)	1026·1	39	N	3	b	1024·3	*	39	+4	NNE	2	—	b	2	—	41	34	b.bc.b	b.	b	8·3
	Portland Bill ...	1026·7	42	NE.	1	c	1024·2	−2	42	+10	N	2	—	c	3	—	42	32	bc.c	bc.c	c.om	*
	Dungeness ...	1026·1	35	NE.	5	bc	1022·2	−2	31	−2	N	2	NE	b	2	—	40	28	bc	bc	c.b.bx	*
	Dover	1027·1	32	NNW	5	b	1022·8	0	33	0	NE	1	—	c	2	1	40	28	bc	bc.c.b	bc.cm	8·0
	Wick	1019·2	46	W	2	o	1009·7	−7	45	+2	WSW	3	—	o	2	3	50	42	om.bc	bc.omq	orm.oq	*
	Nairn	1020·6	48	W	3	oq	1011·7	*	47	+6	W	6	—	cqr	4	0·1	52	40	bc	bc.e	odq	2·2
	Aberdeen	1022·1	49	W	2	bc	1013·7	−5	49	+9	WSW	2	—	o	2	—	55	40	b.bc.c	c.bc	bc.c.o	4·4
	Leith	1024·4	48	WSW	2	o	1014·1	−2	47	+6	W	3	W	c	3	—	53	41	co.cu.c	o.c.oq.o	o.c.bc	*
	Tynemouth ...	1025·0	48	NW	2	cm	1018·3	−3	46	+7	W	3	—	cm	3	—	52	38	bcm	bcm	bcm	*
	Spurn Head ...	1027·7	41	—	0	cm	1021·0	−3	41	+10	WNW	3	—	cm	2	—	42	30	om	cm	cm	0·0
	Yarmouth ...	1027·5	36	E	2	bc	1020·9	−3	34	+3	W	3	—	cm	2	—	41	31	bc	bc	cm	8·0
	Clacton-on-Sea	1026·8	36	NE	3	bc	1022·0	−2	37	+4	W	1	NE	c	0	—	39	27	bc	bc.	bc.c	9·0
	Nottingham ...	1026·8	41	W	1	cm	1021·7	*	44	+19	W	1	—	om	*	0·3	44	24	bc.om	omp	e.bm	0·3
	Benson (Oxon.) ...	1027·4	40	N	1	o	1022·2	−2	38	+17	—	0	—	fe	*	Trace	42	20	bc	o	o	*
	Sth Farnborough	1026·0	41	NNE	1	c	1022·5	−2	37	+12	W	2	—	of	*	—	45	26	b.bc.c	c.o.c.	omf	6·7
	London (Kew Obsy.)	1026·8	41	NE	3	c	1022·9	−3	34	+7	SW	2	—	of	*	—	43	27	bmx.bm.bc	bc.b.bc.co	c.bc.omf	4·9
NORTHERN EUROPE.	Spitsbergen ...												*		*	*					
	Vardö	1001·9	21	—	0	bc	984·4	+5	24	0	SE	1	—	0	3	*	24	12				
	Bodö	997·0	39	SW	4	r	986·2	−5	37	0	S	2	—	c	2	?	39	34				
	Christiansund ...	1005·6	41	W	5	r	994·9	−1	37	−6	W	4	—	c	4	5	46	34				
	Skudesnaes ...	1017·1	39	SSE	2	r	1004·4	−5	39	+3	NNW	4	—	o	3	3	39	34				
	Færder (X'tania Fjord)	1014·0	36	SW	2	b	1003·3	−4	36	+4	WSW	6	NW	c	3	—	36	32				
	The Scaw (Skagen)	1019·9	34	SW	5	f	1008·2	−5	34	+1	WSW	4	—	o	4	1	37	34				
	Blaavands Huk	1025·3	32	WSW	2	o	1015·5	−5	34	+4	WSW	2	—	f	3	1	36	28				
	Copenhagen ...	1025·5	34	W	3	b	1015·0	−5	34	+6	W	2	—	m	*	—	37	27				
	Bornholm ...	1025·5	28	WSW	4	m	1016·8	−5	28	+3	WSW	6	—	o	1	—	28	25				
FRANCE, &c.	The Helder ...	1026·9	34	NNE	3	b	1020·2	−4	36	+6	SSW	2	—	c	1	—	36	30				
	C. Gris Nez ...	1026·0	34	ENE	5	b	1021·9	−2	36	+5	NE	1	*	o	1	—	37	31				
	La Hêve	1025·2	34	NE	4	bc	1024·2	*	32	+2	NNE	2	*	bc	2	3	37	30				
	Brest (St. Mathieu)	1027·8	40	NNE	4	o	1025·3	−1	43	+9	NE	2	*	c	2	—	45	34				
	Rochefort (Ile d'Aix)	1021·0	41	NNE	5	bc	1020·4	0	32	0	NNE	6	*	o	*	—	46	32				
	Biarritz	1020·6	43	N	2	o	1019·9	+1	36		E	2	*	o	2	—	45	32				
	Paris	1020·6	37	NNE	5	b	1019·9	+1	30	+2	NNE	2	—	b	*	—	43	28				
	Belfort	1017·1	28	E	4	o	1016·7	*	27	0	—	0	*	s	*	3	36	25				
	Lyons	1015·0	30	NNW	4	s	1015·3	*	30	−2	NNW	2	*	s	*	—	32	23				
	Nice	1007·5	39	—	0	bc	1010·0	+3	34	+1	E	1	*	bc	3	—	48	32				
	Perpignan ...	1013·5	39	NW	4	o	1015·3	0	34	0	NW	4	NW	b	*	—	46	32				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna	1028·0	48	NNE	5	bc	1025·5	+1	43	+4	NE	3	—	c	2	2	48	39				
	Madrid	1017·6	59	N	4	bc	1019·9	+1	34	+2	—	0	—	bc	*	—	59	28				
	Lisbon	1022·7	50	NNW	4	b	1020·4	−2	41	−2	NNW	2	—	c	5	—	52	41				
	Azores (Horta) ...	1028·2	*	ESE	4	o	1031·8	+1	?54	−1	NE	4	*	b	3	—	61	54				
	Madeira	1022·9	57	E	3	c	1023·4	0	52	−3	NE	3	—	r	3	6	59	52				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1016·2	+2	57	0	ENE	3	—	b	1	—	64	54				
	Limassol	*	*	*	*	*	1015·9	0	57	0	—	0	—	b	3	—	73	57				
	Alexandria ...	1016·2	63	ENE	3	b	1015·9	+1	64	0	NE	2	NW	c	1	—	70	59				
	Cairo (Helwan) ...	1012·2	78	NE	4	b	1013·3	+3	64	+1	NW	1	NW	c	*	—	84	59				

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

GALES
Duration and Extreme Force in British Islands.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Mln.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	53	100	8·9	45	28	23	—	b.	cx	o.bc
CITY (Bunhill Row)	*	*	7·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	59	95	7·4	45	31	28	—	bcm	bc	bc.bm
CAMDEN SQ. (British Rainfall) ..	59	98	7·5	46	30	24	—	b	b	*
HAMPSTEAD (Reservoir)	*	100	8·4	42	29	21	Trace	bc	bm	oxm
S. KENSINGTON (Museum Grounds)	*	86	7·7	51	33	26	1	bz	bc.o	o.b
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

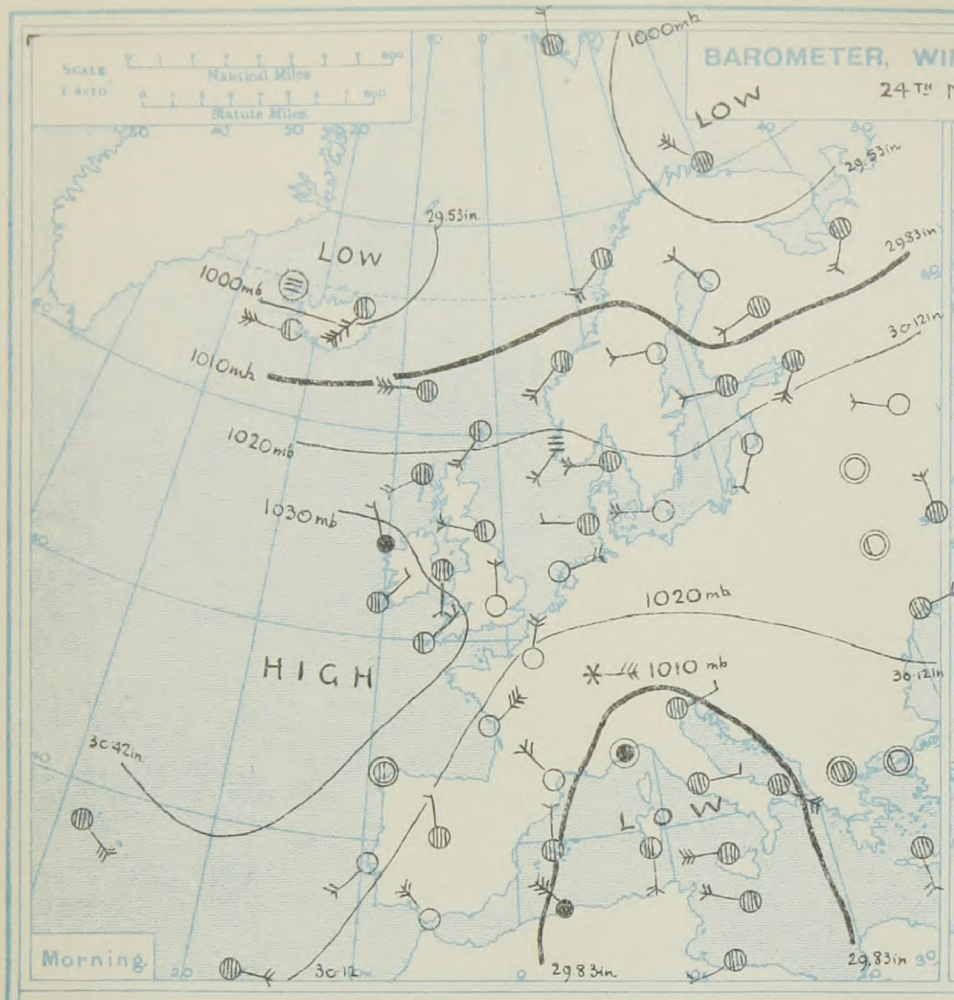
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

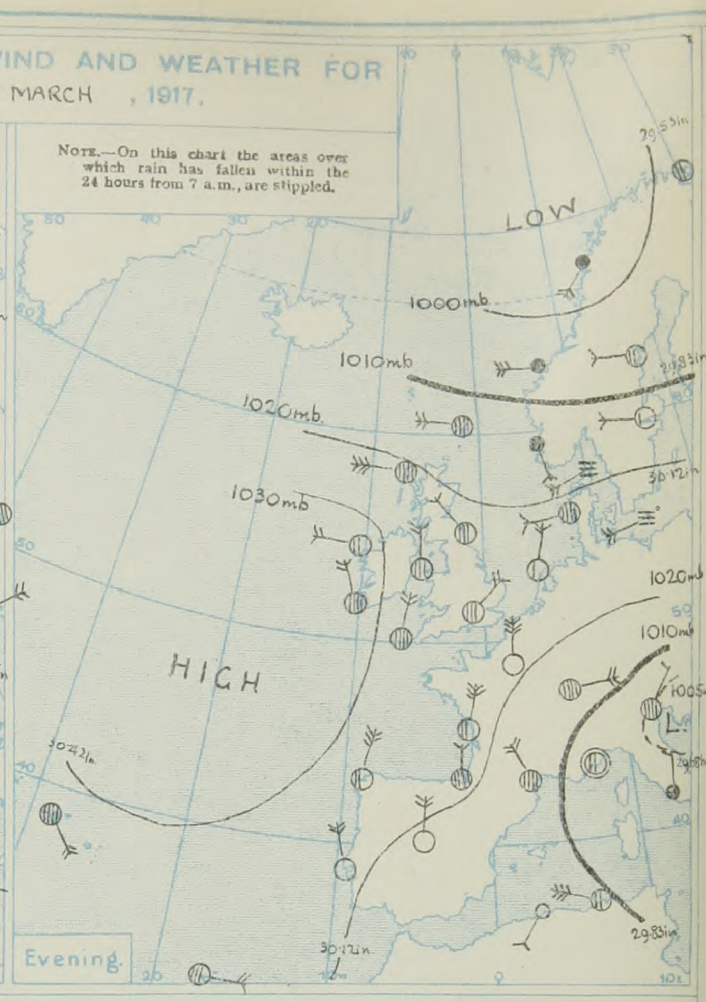
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1195	26·9	54

Temperatures at Greenwich and Camden Square are from Glaisher screens.

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

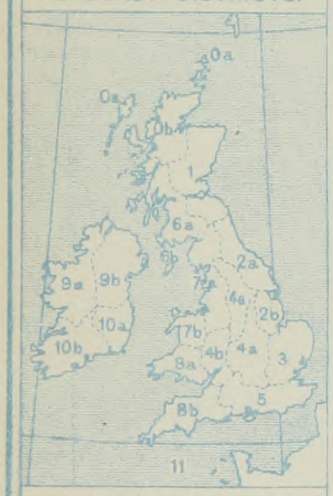
BAROMETER, WIND AND WEATHER FOR 24TH MARCH, 1917.





FORECAST 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	Westerly and North-Westerly winds, moderate to strong or high; dull, some rain; moderate temperature.
1		
2	a, b	
3		Westerly and North-Westerly winds, moderate; fair to dull, some rain later, mist locally; temperature rising.
4	a, b, c	
5		Light W. or N.W. winds; mostly fair; less cold.
6	a, b	Same as Nos. 0-2a.
7	a, b	
8	a, b	North to North-Westerly winds, moderate; fair to dull; moderate temperature.
9	a, b	Same as Nos. 0-2a.
10	a, b	Same as No. 8.
11	Western Channel and Bay	N.E. to N.W. winds, light; sea slight; fair.

FURTHER OUTLOOK.

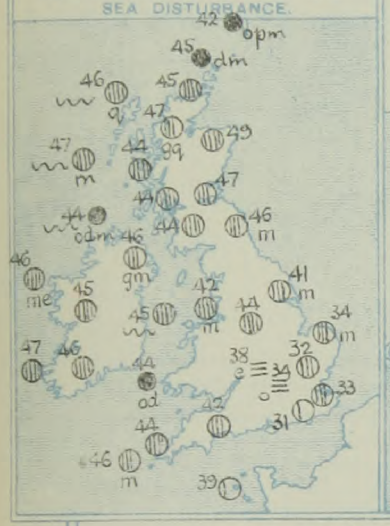
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF SUNDAY, 25TH MARCH, 1917.

GENERAL INFERENCE.

The barometrical changes in progress seem to indicate that the main wind current will become Westerly or North-Westerly, and the general character of the weather less stable.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1 : 2·5×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles. 0 1 2 3 30·27m 500

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

1010mb 1005mb 1000mb 995mb

LOW

Barometer falling generally

HIGH

1015mb 1020mb 1025mb 1030mb

1015mb 1010mb LOW

30·42in. 30·12in. 29·97in. 29·53in. 29·24in.

Issue No. 20,212

DAILY WEATHER REPORT.

Sunday, 25th March, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning. 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.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel' ...	1023·8	9	S	3	bc	1004·3	- 8	10	- 3	SW	3	0	-	*	3
	Gorki						1026·9	-	?	- 27	-	0	b	-	*	-14
	Velieki Luki ...	1024·0	5	SW	1	b	1027·1	*	1	- 9	S	2	bc	-	*	0
	Hangö	1021·3	16	WSW	3	b	1015·8	- 3	23	-	W	2	0	-	*	-4
	Riga	1026·1	9	-	0	b	1025·3	-1	5	+ 2	SSW	2	b	-	*	3
	Petrograd ...	1030·8	7	SW	2	bc	1016·3	- 3	14	+ 18	SW	4	0	-		- 6
	Moscow	1017·6	16	NW	3	b	1024·7	+ 3	7	- 12	WNW	2	b	-	*	5
	Kiev	1024·4	28	N	1	0	1026·6	+ 3	28	0	-	0	b	-	*	27
	Kharkov ...	1030·2	32	NW	3	0	1027·5	+ 3	23	-16	N	3	0	-	*	23
	Kishinev ...	1022·7	39	N	2	0	1024·7	0	32	- 5	E	1	0	-	*	30
	Elisabetgrad ...						1029·0	+ 4	27	- 9	NE	3	0	-	*	27
	Nicolaiev ...	1022·9	37	NW	2	0	1025·1	*	32	-11	NE	2	0	-	*	30
	Odessa						1025·0	-1	34	- 9	E	4	0	-	*	32
	Tarkhankout ...	1021·7	43	N	4	b		*							*	
	Soukhoum ...	1021·1	52	-	0	b	1023·5	-1	48	-	-	0	b	-	*	?
Mediterranean.	Venice	1010·5	41	ENE	2	r	1008·6	*	45	+ 4	ENE	1	0	12	46	39
	Pesaro	1009·0	47	WSW	1	c	1008·3	*	43	0	-	0	0	4	50	39
	Rome	1008·3	54	SW	1	c	1005·5	*	50	0	E	1	0	2	59	48
	Viesti	1008·7	57	SSE	1	bc	1006·2	*	52	+ 2	NW	1	b	-	59	50
	Brindisi	1009·1	61	SE	3	q	1005·4	*	61	+13	SE	4	0	-	66	48
	Cagliari						1006·1	*	54	+ 1	S	3	c	2	59	50
	Palermo	1007·8	65	-	0	b	1006·3	*	54	+ 8	W	6	0	-	66	45
	Tripoli						1007·9	*	59	- 11	WSW	1	0	-	?	54
	Algiers	1010·3	45	SW	1	0	1009·7	+ 4	45	- 1	NW	6	r	18	48	41
Sweden.	Hernösand ...	1010·1	30	-	0	c	1011·4	*	37	+15	W	2	b	*	*	*
	Stockholm ...	1021·0	19	SSW	2	0	1017·1	*	30	+20	WSW	2	c	*	*	*
	Wisby	1023·3	19	SW	2	b	1011·9	*	28	+14	SW	6	0	*	*	*

Iceland.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	‡			
Isafjord ...	996·0	34	- 9	-	0	f
Reykjavik	1001·0	34	- 9	WSW	5	bc
Vestmanna						
Seydisfjord	999·0	23	- 8	SW	9	c
Thorshavn	1011·4	44	+ 3	W	6	0

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	Trace	—	46	37	0	0	0·9
	Banff	—	—	52	38			3·7
	Montrose	—	—	55	36	b	bc	7·2
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	—	—	50	31	0	0.c	0·2
	Skegness	—	—	40	22	0	0	0·0
Eng. N.W.	Morecambe							
	Southport	—	—	43	32	0.c.0	0.c	0·0
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye	—	—	48	23	c.bc	c.0p	2·5
Wales.	Rhyl	—	—					0·5
	Colwyn Bay	*	*					
	Llandudno	*	*					
	Aberystwyth	*	*	42	33	0	0.c	0·0
	Tenby							
England. E.	Lowestoft	—	—	38	26	bc	bc	9·3
	Felixstowe							
	Walton-on-Naze	—	—	38	26	b.bz.b	b	9·0
	Southend-on-Sea	—	—	42	26	b.bc	b.bc	8·3
England. S.E.	Margate	—	—	36	32	b	b	9·2
	Ramsgate							
	Hastings	—	—	40	28	b	b.bc	8·6
	Eastbourne	—	—	43	27	b	b	8·5
	Seaford	*	*	44	27	b	b	9·5
	Brighton	—	—	46	28	b	bc	10·2
	Worthing	—	—	45	26	b	b	10·1
	Littlehampton							
	Bognor	*	*					
	Bournemouth	2	-	44	26	bc	0	5·8
England. S.W.	Weymouth	*	*					
	Torquay							
	Paignton	*	*					
	Penzance	—	—	50	31	bc.c	c	4·1
	Newquay							
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

25th & 26th March, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·48	11·59	6·11
	5·45	11·59	6·13
Greenwich	5·54	12·6	6·18
	5·52	12·6	6·20
Wick	6·4	12·18	6·33
	6·1	12·18	6·36
Valencia	6·35	12·47	6·59
	6·33	12·47	7·1

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Station, Date and Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Heights in Kilometres														

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

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‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 85

Monday, 26th March.

	STATIONS	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0–12.	Weather.	THIS MORNING: 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	35	N	7	rq	1006·1	+2	29	-13	N	7	N	bcq	6	13	45	29	orq	oqsp	bcqsp	*
	Deerness (Orkney)	997·6	38	WNW	6	op	1008·4	*	32	-13	N	7	-	cph	6	2	47	31	od	op	oph.c	0·2
	Stornoway ...	1002·8	40	NW	6	cpq	1016·1	+7	32	-14	NNE	7	-	cpsq	6	5	49	31	orq	cpq	cprsq	2·1
	Castlebay (Barra Isd.)	1008·0	43	WNW	5	bc	1018·1	+4	34	-13	NNE	5	N	cq	5	3	48	33	omr	ber	bcsp.c	1·2
	Glasgow ...	1003·8	45	W	4	c	1011·0	+4	34	-10	NNW	2	N	c	*	1	48	33	o.c.odp	oqd.p.c	bc.b.bc	0·4
	Eskdalemuir ...	1004·0	45	WNW	6	o	1009·0	+5	31	-13	N	5	-	b	*	1	49	30	o.od.or	or.or.o	c.op.bc	0·4
	Malin Head ...	1009·4	46	NW	5	cmqp	1014·0	+5	38	-6	NNE	7	NW	cq	7	1	48	38	omq	omqp	cqph	0·2
	Blacksod Point	1016·0	46	NW	5	cmqp	1018·3	+3	39	-7	N	6	NE	bc	5	2	50	38	cm	cmqp	cmp.bc	*
	Valencia ...	1022·3	49	W	5	o	1017·7	+2	43	-4	N	5	N	cpq	5	2	52	39	cpo	o.c.o	op.cq	0·8
	Roche's Point	1019·7	50	NW	5	o	1015·7	*	40	-6	NW	3	N	b	2	0·4	52	40	o	o.c.o	op.b	*
	Birr Castle ...	1015·3	48	W	2	o	1016·0	*	35	-10	NW	1	NW	b	*	0·4	53	34	o.c	c.opr	o.c.b	0·9
	Donaghadee ...	1009·0	48	W	4	cmqp	1011·0	+4	38	-8	N	7	N	bcmq	5	1	52	38	cqm	cmqp	bcmqp	*
	Liverpool (Bidston)	1010·5	47	WSW	5	c	1007·8	+4	37	-5	N	3	N	bc	3	2	48	36	om.c	oq	bcq	0·4
	Holyhead ...	1012·2	47	WSW	5	cq	1009·1	+4	40	-5	NNE	8	N	beqp	7	2	49	39	o.c.o	o.c	cpbcp	0·2
	Pembroke (St. Ann's)	1017·3	45	WSW	4	c	1008·4	+1	40	-4	NNW	6	N	cqp	5	2	49	37	opd.bc	bc.c	o bcqp	1·7
	Scilly (St. Maty's)	1021·3	47	NW	4	o	1011·7	?	44	-2	NNW	7	NW	bcq	6	1	51	41	c.o	o	o.cqp	1·6
	Falmouth ...	1019·7	46	WNW	4	o	1008·3	-2	41	-3	N	6	-	bc	*	Trace	49	40	o	o.bc.c.o	bcpq	1·0
	Jersey (St. Aubin)	1018·6	46	WNW	3	cg	1004·9	*	43	+4	NW	3	-	b	3	1	49	38	bcm	c.cg	cgp.b	1·8
	Portland Bill ...	1016·2	45	WNW	3	c	1004·4	-1	41	-1	NW	5	-	b	4	0·4	47	39	c.o	o.c	c.ber	*
	Dungeness ...	1014·5	44	SW	4	o	1000·0	-1	39	+8	NW	4	NW	bc	3	3	44	31	bc	c.o	o.cr.bc	*
	Dover	1013·6	46	SW	3	c	1008·4	-1	38	+5	N	5	N	c	4	2	50	33	c	c	c.opr.c	1·6
	Wick	998·3	40	WNW	5	c	1009·6	+7	30	-15	N	6	N	s	4	2	51	29	ompq	o.cmpq	cmpqs	*
	Nairn	1000·9	43	W	3	c	1012·2	*	32	-15	NNW	7	-	cqu	6	3	52	30	c.bcpq	bcq.c	ogrhp	2·8
	Aberdeen	999·4	45	WNW	5	bc	1008·1	+5	32	-17	NNW	6	-	c	3	4	55	31	o bcq	c.oqp.c	bc orspq	1·0
	Leith	1002·3	49	W	5	c	1009·6	+3	36	-11	NNW	3	N	c	3	—	51	35	c.ouq.c	cu.cq.c	c.bqu.c	*
	Tynemouth ...	1004·6	49	W	4	cqmd	1004·8	+3	34	-12	N	3	N	cmqps	6	2	53	33	cqm	cqm	cmqp	*
	Spurn Head ...	1009·4	46	WNW	4	cm	1000·7	0	39	-2	N	7	-	cqp	6	2	50	36	cm	cm	cq	1·1
	Yarmouth ...	1010·5	48	SW	3	om	998·0	0	38	+4	N	5	-	cqp	3	1	52	34	cm	cm · om	bc.cqp	0·0
	Clacton-on-Sea	1012·2	45	SW	2	o	1000·0	0	39	+7	NNW	4	N	c	2	0·3	48	32	c.ogm	ogm	ogm.cp	0·0
	Nottingham ...	1010·9	49	W	4	o	1004·2	*	36	-8	N	4	N	c	*	2	53	35	om.c	c.o	o.cp	3·5
	Benson (Oxon.) ...	1009·4	46	W	1	c	1002·4	0	37	-1	NW	3	-	o	*	1	51	37	od	bc	or.o	*
	Sth Farnborough	1013·3	48	WSW	3	o	1002·1	-2	38	+1	NW	3	-	o	*	0·2	50	36	fodm	omd	o.b.od	0·0
	London (Kew Obsy.)	1013·4	48	WSW	3	cm	1001·9	-2	39	+5	NNW	3	N	c	*	1	49	34	omf.omd	om.cm	cm.bor	0·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö														*	*						
	Bodö	1009·1	34	SW	4	o	989·3	+8	27	-10	N	6	-	c	2	?	37	25				
	Christiansund ...	988·8	36	NW	4	c	995·4	+8	34	-3	NE	6	—	s	4	9	37	34				
	Skudesnaes ...	984·2	37	NNW	7	r	988·0	+3	37	-2	NNW	10	—	c	5	6	39	34				
	Færder (Kristiania fjord)																					
	The Scaw (Skagen)	996·7	37	WSW	5	r	983·5	0	36	-1	WSW	5	-	b	5	1	39	34				
	Blaavands Huk	1002·9	36	W	4	f	991·5	0	34	0	WNW	2	—	c	3	1	37	32				
	Copenhagen ...	1002·7	36	WSW	3	r	990·0	-2	37	+3	WSW	4	—	r	*	1	37	32				
	Bornholm ...	1004·8	30	WSW	6	m	992·6	-3	32	+4	SW	8	—	rm	2	3	32	27				
FRANCE, &c.	The Helder ...	1009·2	37	SSW	6	c	995·7	0	37	+1	NW	1	—	c	2	6	41	36				
	C. Gris Nez ...	1014·3	40	SSW	2	m	999·4	-1	40	+4	NNW	5	*	o	4	2	43	37				
	La Hève	1017·9	45	NNW	3	c	1002·9	*	42	+10	WNW	5	*	f	4	2	?	?				
	Brest (St. Mathieu)	1021·0	46	NNW	4	o	1009·3	-2	45	+2	NNW	5	*	o	4	2	48	43				
	Rochefort (Ile d'Aix)	1017·9	47	N	3	b	1009·0	-5	44	+12	NW	3	*	r	*	1	52	32				
	Biarritz	1018·6	37	NE	1	r	1011·3	-4	39	+3	S	2	*	o	2	5	39	34				
	Paris	1015·8	45	NNE	2	o	1002·3	?	39	+9	SSW	2	—	o	*	?	?	?				
	Belfort	1017·3	30	-	0	o	1009·6	*	28	+1	NW	3	*	o	*	5	41	27				
	Lyons							*					*		*							
	Nice	1014·4	42	E	2	o	1008·6	-5	40	+9	E	1	*	o	3	—	50	31				
	Perpignan ...	1015·4	41	NNW	3	c	1012·7	-3	?45	+8	SW	1	—	b	*	—	48	37				
	Sanguinaire ...	*	50	NW	2	m	*	*	45	—	E	4	*	r	4	—	52	41				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1032·3	*	E	5	c	1030·3	+2	53	-1	-	o	*	b	3	—	63	54				
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.

South Farnborough.
Pilot Balloon Ascent at ...7..38.

450 m : N by W 9 m/s
300 m : NNW 8 m/s
Surface : NW 5 m/s

GALES

Duration and Extreme Force in British Islands.

Deerness
N, 8 : 25th, 24h.

Eskdalemuir
W, 8 : 25th, 7h – 16h.

Holyhead
NW, 8 : 25th, 21h.

Falmouth
?NW, 8 : night

Nairn
NNW, 8 : 25th, 24h – 26th, 5h.
Extreme : NNW, 9 at 3h.

Aberdeen
Gusts, 21 m/s : 25th, 14h and 26th, 7h.

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday. %	Humidity: 9 h. To-day. %	Sunshine for Yesterday. Hours	24 Hours ended 9 h. To-Day. Temperature: Max. °F.	Temperature: Min. °F.	Temperature: Min. on Grass °F.	Rainfall. mm.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
GREENWICH (Royal Observatory)	90	91	0·0	48	37	32	1	o	c	bc
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	90	87	0·0	50	38	31	2	m	m	bc.osr
CAMDEN SQ. (British Rainfall) ...	?	83	0·0	49	37	32	1	-	-	*
HAMPSTEAD (Reservoir)	*	90	0·0	48	33	25	1	oe bc	b	bex.os
S. KENSINGTON (Museum Grounds)	*	86	0·0	51	37	35	1·1	om	o.c	c.o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

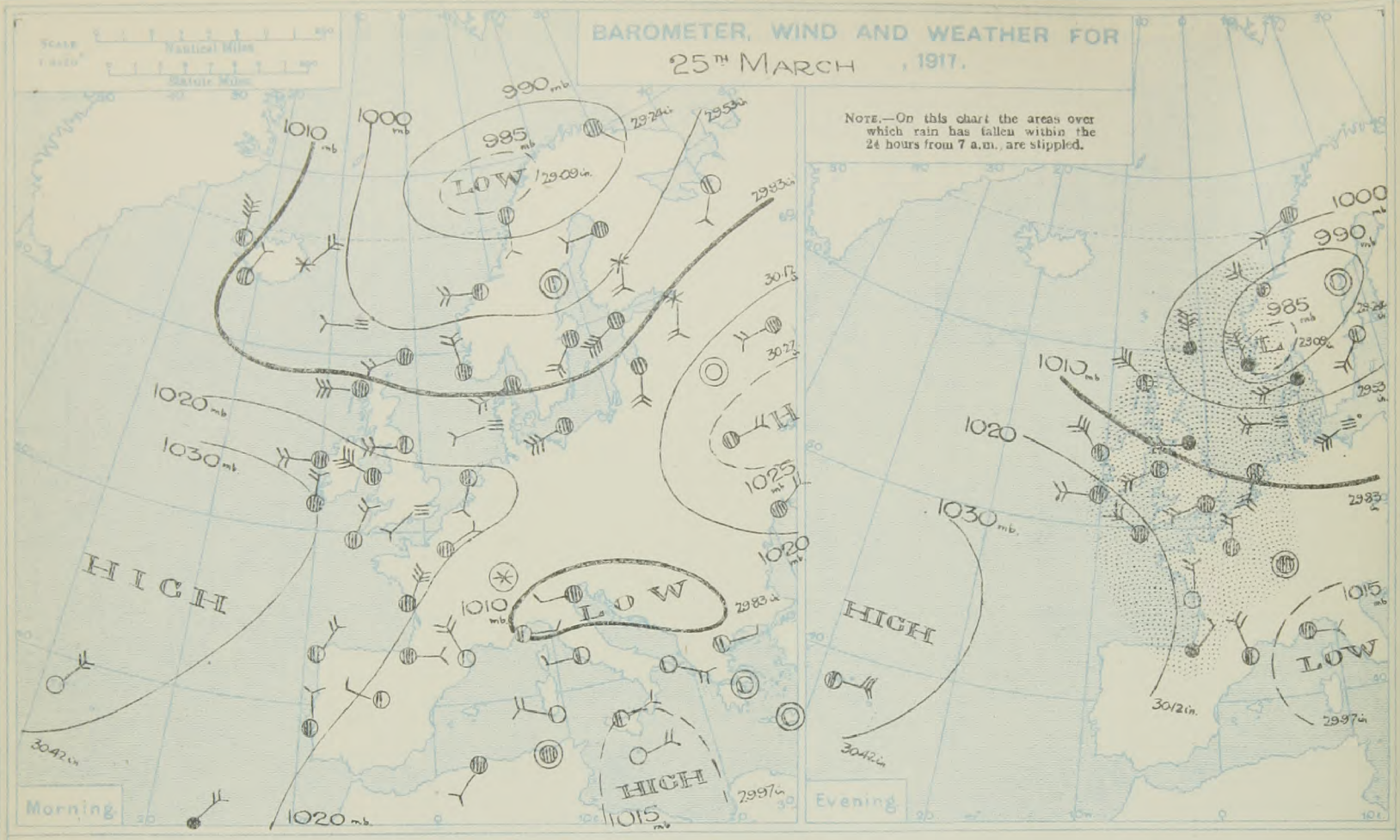
Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
319	7·2	26·0

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 25TH MARCH, 1917.



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.

South Cone hoisted yesterday.

0 a, b; 1; 2 a, b — Northerly winds, strong or high, then decreasing; squally, showery, sleet or snow; low temperature.

3; 4 a, b, c; 5 — North-Westerly and Northerly winds, moderate or fresh to light; changeable, some sleet, rain, or hail showers; cold.

6 a, b; 7 a, b — Same as Nos. 0 - 2.

8 a, b; 9 a, b; 10 a, b — North winds, fresh or strong to moderate; changeable, some showers, rain or hail.

11 Western Channel and Bay — North-West winds, strong to moderate; sea rather rough; changeable, some showers.

FURTHER OUTLOOK.

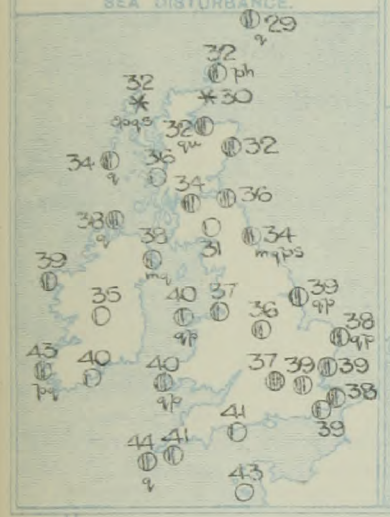
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director

SYNOPTIC CHART FOR THE MORNING OF Monday 26th MARCH, 1917.

GENERAL INFERENCE.

The high pressure to the Westward will extend over these Islands for a time and the force of the North wind will decrease gradually.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

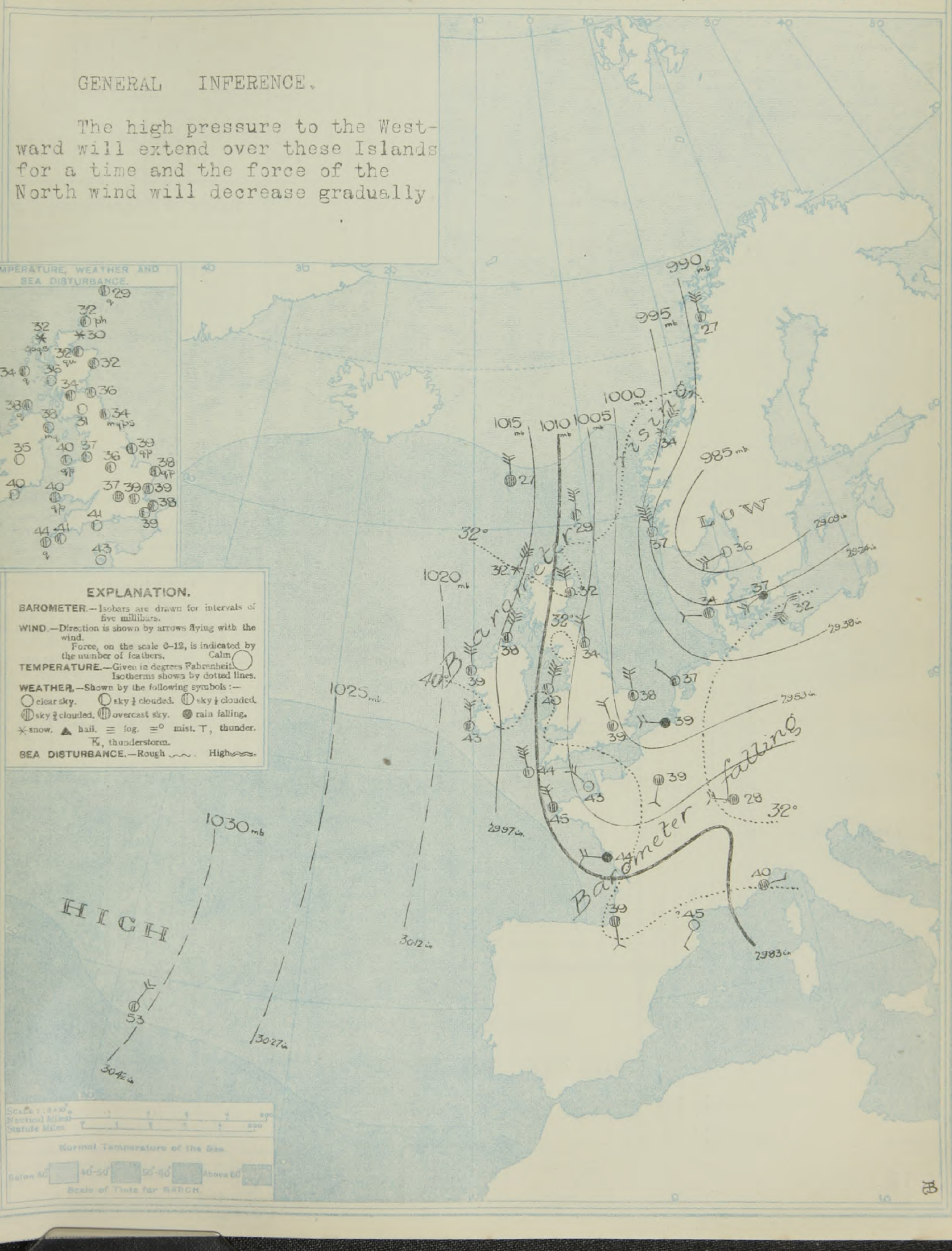
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈.



Scale 1 : 8480000
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°

Scale of Tints for MARCH.

Issue No. 20,213. **DAILY WEATHER REPORT.** Monday, 26th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	100·66	18	SW	1	m	1005·7	−1	14	+4	SW	2	bc	—	*	10
	Gorki	1026·3	9	—	0	b	1023·7	?	−4		—	0	b	—	*	−11
	Velieki Luki						1020·3	*	18	+17	S	2	0	—	*	1
	Hangö	1015·6	30	—	0	0	1009·1	−5	32	+9	WSW	8	0	—	*	14
	Riga	1022·3	26	SSW	2	0	1016·4	−3	25	+20	SSW	4	0	—	*	5
	Petrograd	1015·4	28	W	3	0	1010·7	−4	30	+16	SW	3	5	—		14
	Moscow	1021·7	19	SW	3	0	1021·1	0	28	+21	W	3	0	—	*	7
	Kiev	1029·2	27	SE	1	b	1025·1	−2	19	−9	E	3	0	—	*	18
	Kharkov	1028·8	19	—	0	b	1028·0	0	14	−9	—	0	b	—	*	12
	Kishinev														*	
	Elisabetgrad	1028·6	28	ENE	2	b	1024·2	−3	28	+1	ESE	4	0	—	*	2·7
	Nicolaiev	1025·9	30	ENE	5	0	1022·3	*	30	−2	ENE	3	0	1	*	28
	Odessa	1023·6	34	E	3	0	1020·6	−5	32	−2	E	5	0	—	*	30
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1004·3	46	—	0	0	1008·6	*	41	−4	W	1	0	1	48	34
	Pesaro	1005·0	45	NW	2	c	1011·7	*	46	+3	WSW	1	c	1	50	37
	Rome	1005·7	48	—	0	r	1013·3	*	46	−4	—	0	bc	3	57	45
	Viesti	1006·9	50	—	0	0	1012·5	*	48	−4	W	1	0	1	52	45
	Brindisi	1007·3	59	SE	3	0	1012·3	*	54	−7	SE	3	b	—	66	50
	Cagliari						1012·6	*	52	−2	NW	3	b	—	61	48
	Palermo						1015·5	*	54	0	ENE	2	bc	—	63	45
	Tripoli						1013·5	*	59	0	E	1	bc	—	64	54
	Algiers	1014·1	43	SW	2	r	1014·4	0	42	−2	SW	3	0	10	60	37
SWEDEN.	Hernösand	1008·3	41	W	2	b	993·9	*	41	+4	—	0	bc	*	*	*
	Stockholm	1015·4	37	W	2	bc	1003·0	*	36	+6	SW	4	0	*	*	*
	Wisby	1017·6	36	WSW	2	c	1008·2	*	32	+4	WSW	6	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.
		°F	°F			
Isafjord	1014·4	23	−11	N	8	c
Reykjavik	1006·4	34	0	NNE	3	c
Vestmanna						
Seydisfjord	1007·0	25	+2	NE	4	s
Thorshavn	1000·2	38	−6	W	2	m

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	1	47	42	ob	bc	1·1
	Banff	2	2	55	42	c.bc	bc.b.c	2·9
	Montrose	—	—	55	43	b	bc	0·6
	Carnoustie	*	*					
	St. Andrews							
Eng. N.E.	Harrogate	—	—	52	40	o.c	bc.c	3·6
	Skegness	—	—	54	33	bc	bc	0·0
Eng. N.W.	Morecambe							
	Southport	Trace	—	45	41	o.c.o	o.c.o	0·5
Midlands.	Leamington Spa							
	Malvern							
	Ross-on-Wye							
Wales.	Rhyl	Trace	—	50	38	d.o	o.c	0·6
	Colwyn Bay	*	*	50	44	c.	c.	0·4
	Llandudno	*	*	48	43	c.	c	0·4
	Aberystwyth	*	*	44	38	r.o.c	c.o	0·6
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England, E.	Lowestoft							
	Felixstowe	—	—	48	30	om	om	0·0
	Walton-on-Naze							
	Southend-on-Sea							
England, S.E.	Margate							
	Ramsgate							
	Hastings	—	—	49	30	b.be.o	o	0·7
	Eastbourne	—	—	49	28	d.	o	0·0
	Seaford	*	*					
	Brighton	—	—	45	30	c	c	0·0
	Worthing	—	—	49	29	o	o	0·0
	Littlehampton							
	Bognor	*	*					
	Bournemouth	—	—	51	36	o	o	0·0
England, S.W.	Weymouth	*	*					
	Torquay	—	—	52	37	o.	o.c	0·8
	Paignton	*	*					
	Penzance							
	Newquay	—	—	48	32	c	c	0·0
	Bude							
	Ilfracombe							
	Weston-s-Mare							

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

26th & 27th March 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T
Yarmouth	5·45	11·59	6·13
	5·42	11·59	6·15
Greenwich	5·52	12·6	6·20
	5·50	12·6	6·22
Wick	6·1	12·18	6·36
	5·58	12·18	6·38
Valencia	6·33	12·47	7·1
	6·31	12·47	7·3

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° in many parts of England. Rain fell, but not heavily, and very little bright sunshine was recorded.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 86 — Tuesday, 27th March.

	STATIONS.	YESTERDAY EVENING					THIS MORNING									PAST 24 HOURS					Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·7	34	N	6	cq	1012·0	-2	35	+6	WSW	2	–	o	2	1	35	29	bcqsp	bcqsp	o	*
	Deerness (Orkney)	1015·2	33	NNW	6	chp	1014·5	*	34	+2	SW	4	–	o	4	1	35	32	csh.bc	bcph.c	c.o	5·2
	Stornoway ...	1010·3	34	N	5	o	1014·8	-3	36	+4	SW	4	–	c	3	1	37	30	bcpsq	bc.opsq	bc.o.c	5·7
	Castlebay (Barra Isd.)	1021·7	35	NNE	4	bc	1017·8	-2	40	+6	SW	4	SW	bc	4	Trace	40	32	cq.bcs	bcsp	bc.o.bc	7·3
	Glasgow ...	1017·1	34	N	2	b	1019·4	0	28	-6	WNW	1	N	b	*	–	38	26	c.bc.c	bc.b	b.bcx	6·5
	Eskdalemuir ...						1018·5	0	27	-4	N	4	NE	b	*	–	37	24			b	8·3
	Malin Head ...	1018·9	36	N	6	bcq	1019·3	0	37	-1	SW	2	W	c	2	0·3	39	35	bcqph	bcqph	bc	7·2
	Blacksod Point	1021·9	38	NNE	4	cp	1019·8	-3	37	-2	S	2	–	bc	2	0·2	42	35	bcqps	bc	cp.bc	*
	Valencia ...	1020·6	42	N	5	bc	1022·2	0	32	-11	–	0	N	bc	3	–	46	32	bc	bc	c.bc	10·0
	Roche's Point	1018·4	42	N	3	bc	1021·8	*	34	-6	NNW	2	–	b	2	–	47	32	bcv	cq.bc	bc.b	*
	Birr Castle ...	1019·6	37	NNW	2	c	1021·4	*	25	-10	NW	1	–	b	*	Trace	43	24	cph	cph	bx	7·4
	Donaghadee ...	1016·6	38	NNE	5	bcqph	1019·5	0	31	-7	W	2	–	bcv	2	1	40	31	bcqph	bcqph	bcq	*
	Liverpool (Bidston)	1013·3	36	N	3	b	1017·9	+1	32	-5	N	1	–	b	2	–	41	30	bc	bcs	b	3·9
	Holyhead ...	1014·8	39	NE	7	cps	1018·9	+1	35	-5	NE	4	–	b	4	1	44	34	o.cps	cps	b.bc	6·3
	Pembroke (St. Ann's)	1014·4	36	N	5	bq	1019·7	+2	32	-8	N	3	N	b	2	4	42	31	cqphs	bqps	bc.b	5·9
	Scilly (St. Mary's)	1013·8	41	NNE	6	cqp	1018·9	+1	38	-6	NE	3	NE	cq	5	–	46	?35	cq	bcq	cq	8·5
	Falmouth ...	1011·7	39	N	6	bq	1018·0	+3	31	-10	N	4	–	b	*	–	45	30	hq.bcq	bcq.cp	b	7·7
	Jersey (St. Aubin)	1006·9	40	N	5	bq	1013·9	*	36	-7	NE	4	–	og	3	1	46	35	bcqp	o.cqp.b	bc.o	6·8
	Portland Bill ...	1007·3	38	NE	5	bc	1014·5	+3	32	-9	N	5	–	b	3	–	44	32	bc	bcq	bc.b	*
	Dungeness ...	1008·9	39	N	5	bc	1010·6	+3	31	-8	NNE	4	NE	b	3	1	43	30	bc	bc	cqs.bx	*
	Dover	1005·3	35	N	5	b	1011·0	+3	30	-8	NW	6	N	o	4	2	44	30	opsh	opsh.b	ops	2·2
	Wick	1016·0	34	N	5	bc	1015·9	o	33	+3	W	2	–	o	4	0·3	35	28	cps.bc	bcqps	omg	*
	Nairn	1017·7	34	N	4	cq	1017·2	*	30	-2	–	o	–	bc	1	1	37	28	cqsp	bcqhp	cg.bc	5·0
	Aberdeen	1014·6	33	N	4	bc	1017·2	+1	33	+1	NW	3	–	c	3	1	37	30	bcspq	bcspq	bcsp	7·3
	Leith	1016·2	36	N	4	c	1019·4	+1	30	-6	SW	1	NE	bc	2	–	39	29	c.bcq.c	cq.cu.c	c.b.bc	*
	Tynemouth ...	1010·9	35	NNW	5	bcmqp	1017·0	+2	32	-2	NNW	3	N	cmph	6	2	37	31	bcqps	bcqp	cmph	*
	Spurn Head ...	1007·5	36	NNE	8	cqphs	1013·2	+2	36	-3	NNE	7	–	bc	7	1	41	31	bcq	cqphs	bcqph	3·4
	Yarmouth ...	1003·9	38	NNE	7	bcq	1010·0	+4	35	-3	NNE	8	–	bcqps	5	1	42	32	bcq	bcq	bcqps	6·0
	Clacton-on-Sea	1005·4	39	NNW	5	c	1011·2	+3	31	-8	WNW	3	N	bc	2	3	44	30	cps.bc	bc.cps	ops.bc	2·6
	Nottingham ...	1010·3	35	N	5	c	1015·4	*	33	-3	N	3	N	c	*	1	41	30	cps	cps	cps.b	5·7
	Benson (Oxon.) ...	1008·7	36	N	5	b	1014·4	+3	29	-8	N	4	–	b	*	1	42	28	bcshq	pqs	oq.bc	*
	Sth Farnborough	1007·6	35	NNW	3	s	1013·8	+4	31	-7	NNW	3	–	bc	*	1	43	29	rhq.ops.bc	bcqps	bc.b.bc	3·0
	London (Kew Obsy.)	1008·0	34	N	4	bc	1013·8	+3	32	-7	N	4	N	c	*	1	41	30	c.orhq	orhsq.sp.bc	bc.osc	2·3
NORTHERN EUROPE.	Spitsbergen ...	1006·9	-45	–	o	b	1005·5	o	-45	-9	S	1	*	b	*	*	-36	-56				
	Vardö															*						
	Bodö	999·5	23	N	4	c	998·3	-2	16	-11	E	4	–	c	2	?	27	12				
	Christiansund ...	1006·6	28	NE	4	s	1008·0	o	28	-6	W	3	–	b	4	4	34	28				
	Skudesnaes ...	1002·6	32	N	9	b	1011·0	+4	27	-10	NNE	4	–	b	2	–	39	25				
	Færder (X'tania Fjord)	?991·0	34	N	6	b	1009·7	+6	27	-7	N	6	–	b	2	–	36	27				
	The Scaw (Skagen)	991·9	37	N	4	o	1007·5	+6	27	-9	NNE	6	–	b	6	–	41	19				
	Blaavands Huk	995·0	36	NNW	2	o	1007·9	+7	28	-6	NE	3	–	b	4	–	39	25				
	Copenhagen ...	991·9	39	SW	3	m	1001·2	+6	32	-5	N	4	–	c	*	1	43	30				
	Bornholm ...	993·2	32	SW	6	m	995·4	+3	32	o	N	1	–	m	o	–	34	30				
FRANCE, &c.	The Helder ...	1000·6	37	NNW	5	bc	1007·0	+5	34	o	NNE	4	–	c	3	–	39	36				
	C. Gris Nez ...	1003·4	37	NNE	6	b	1009·5	+2	33	-7	NNW	6	*	s	4	1	43	32				
	La Hève	1003·8	40	N	5	o	1010·9	*	34	-8	NNE	4	*	c	4	2	43	34				
	Brest (St. Mathieu)	1010·7	37	NNE	6	o	1016·6	+3	35	-10	NE	3	*	c	2	–	48	34				
	Rochefort (Ile d'Aix)	1001·2	43	NNE	5	c	1009·0	+3	34	-7	N	6	*	bc	*	4	48	36				
	Biarritz	1002·4	44	NW	5	o	1007·9	+4	37	-2	NE	3	*	c	4	10	46	34				
	Paris	1000·0	36	NNE	4	o	1007·7	+5	36	-3	N	4	–	bc	*	8	43	34				
	Belfort	998·0	37	W	3	o	1003·1	*	32	+4	–	o	*	o	*	–	41	28				
	Lyons	999·1	41	W	2	o	1001·2	*	34	–	N	1	*	o	*	–	47	33				
	Nice	1001·5	36	E	1	r	1001·0	+2	37	-3	–	o	*	o	3	3	45	32				
	Perpignan ...	1000·6	45	E	1	o	999·0	o	43	-2	NW	5	W	o	*	–	55	39				
	Sanguinaire ...	*	49	NW	3	c	*	*	44	-1	E	4	*	o	4	–	52	43				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1030·4	*	NE	4	bc							*									
	Madeira																					
	Gibraltar												*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1014·3	-1	70	+7	ESE	2	–	b	3	–	75	46				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ... 7.24

900 m: NNE 16 m/s
600 m: NNE 14 m/s
300 m: N by W 9 m/s
Surface: NNW 4 m/s

GALES
Duration and Extreme Force in British Islands

Dover
Extreme, N, 8 at 16h.

Nairn
Gusts, N, 8, 26th, Morning.

Aberdeen
Gusts, 20 m/s

Nottingham
Gale: N, 8: 26th, 14h.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	83	92	1·2	42	30	27	1	ecr	cs	bcs
CITY (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	56	75	2·4	45	31	27	2	oushr	oshm	bcm
CAMDEN SQ. (British Rainfall) ..	92	74	3·6	45	29	27	3	c	bc.os	*
HAMPSTEAD (Reservoir)	*	87	3·8	41	26	22	2	bc.ohs	ox	bcxs
S. KENSINGTON (Museum Grounds)	*	79	2·5	44	30	25	1	or	bc	b.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

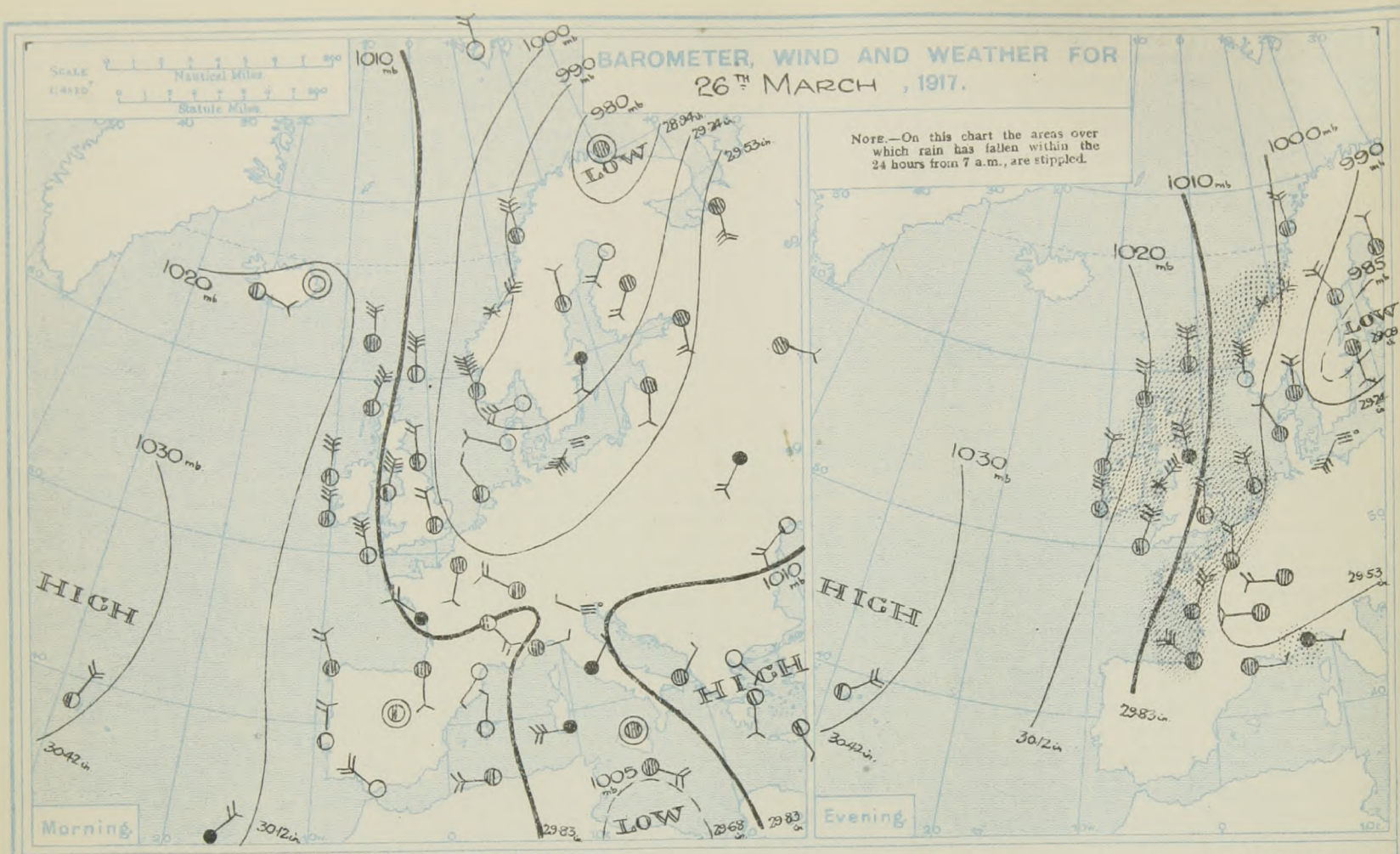
SOUTH KENSINGTON:

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
769	17·1	66

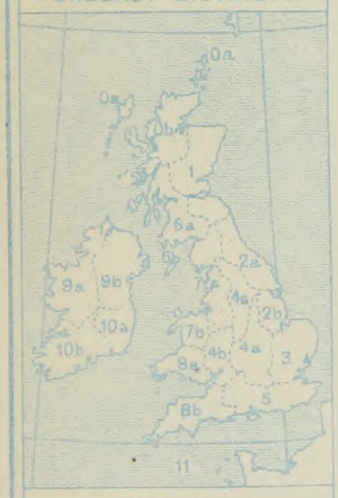
Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 } Westerly and South-Westerly breezes, freshening; fair to cloudy, some showers; less cold.

2 {a, b}, 3, 4 {a, b, c}, 5 } Northerly breeze, becoming light and variable; fine to fair, local snow showers; less cold.

6 {a, b} } Same as Nos. 0 - 1

7 {a, b}, 8 {a, b} } Same as Nos. 2 - 5.

9 {a, b}, 10 {a, b} } Same as Nos. 0 - 1.

Western Channel and Bay 11 { Moderate Northerly to North-Easterly breeze; sea moderate to rather rough; fine generally; cold.

FURTHER OUTLOOK.

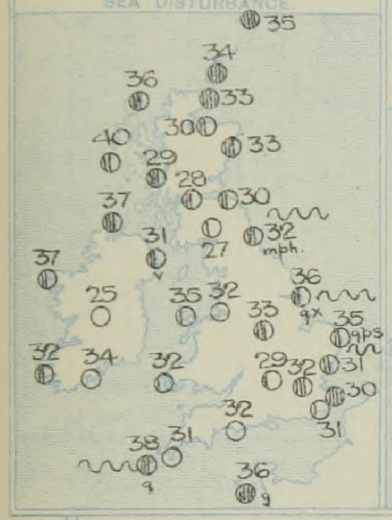
R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF Tuesday, 27th MARCH, 1917.

GENERAL INFERENCE.

A depression indicated over the Iceland region is likely to bring about a more Westerly type of conditions.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

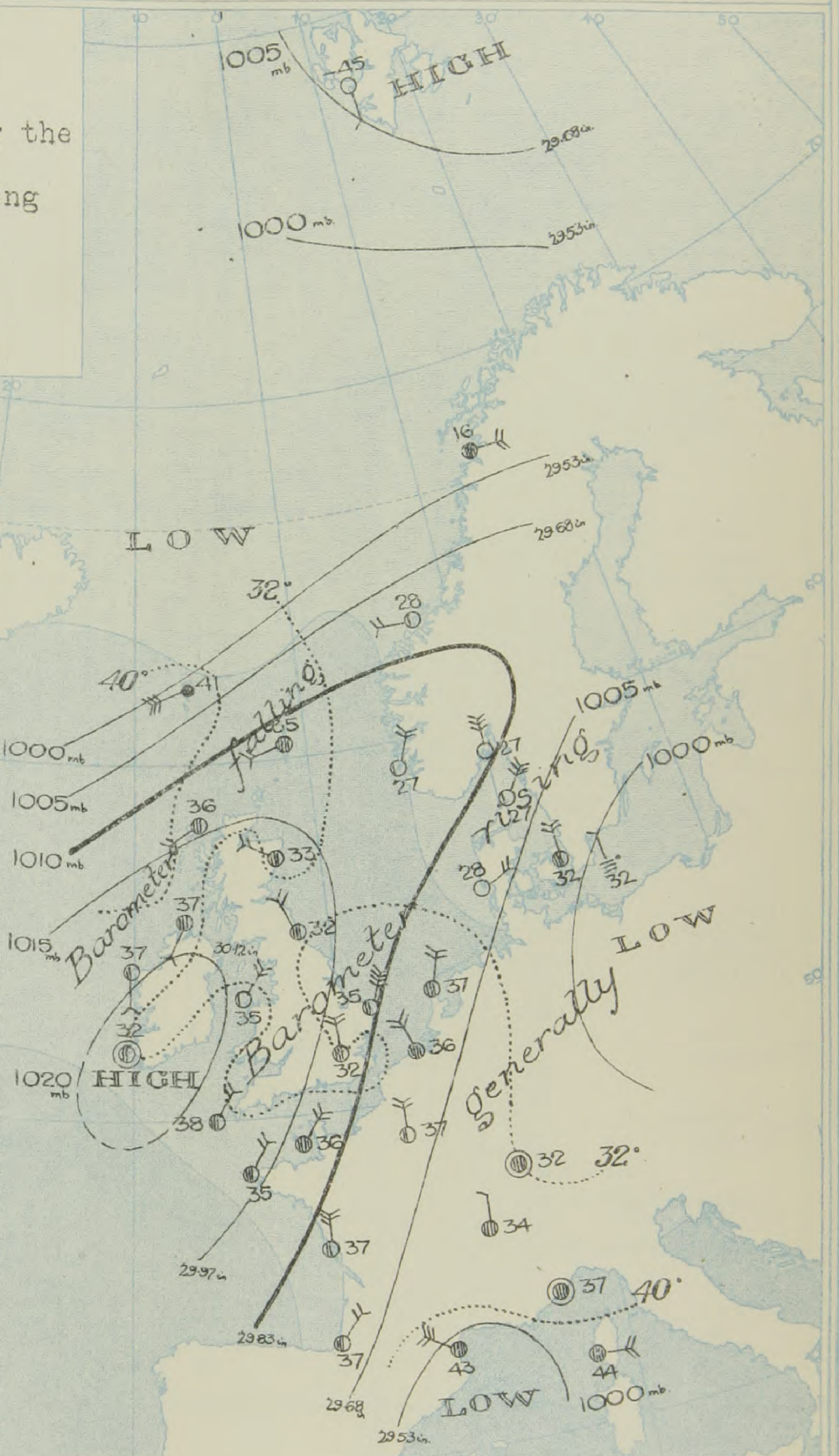
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky 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 MARCH.

Issue No. 20,214

DAILY WEATHER REPORT.

Tuesday. 27th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...						1008·6	−3	28	+14	S	5	o	—	*	14
	Gorki						1001·9	?	23	+27	—	o	o	—	*	−6
	Velieki Luki ...	1010·1	19	SSE	2	b	1002·4	*	27	+9	SE	2	o	—	*	18
	Hangö	996·3	32	WSW	4	o	991·1	−2	32	o	WSW	3	S	1	*	27
	Riga	1003·8	27	SSW	3	o	997·9	−2	25	o	S	2	o	—	*	25
	Petrograd ...	1000·0	28	SSW	4	b	997·3	−1	29	−3	S	2	o	—	32	25
	Moscow	1016·4	25	SSW	2	b	1010·9	−4	18	−10	SE	2	o	—	*	12
	Kiev	1010·3	30	ESE	4	r	1003·8	−2	34	+15	SW	3	r	1	*	17
	Kharkov ...	1019·4	28	SE	3	o	1009·0	−5	32	+18	SSE	2	f	—	*	14
	Kishinev ...	1003·2	37	SE	1	f	1006·9	0	39		—	o	b	6	*	30
	Elisabetgrad ...	1011·3	37	SSE	4	o	1009·1	−1	36	+8	S	2	f	1	*	28
	Nicolaiev ...	1011·9	39	SSE	2	o	1008·6	*	39	+9	SSW	3	o	—	*	30
	Odessa	1011·5	37	SSE	2	f	1008·8	−1	41	+9	SE	3	b	—	*	32
	Tarkhankout...	1011·8	34	SE	1	b	1011·8	*	45		WSW	3	bc	—	*	36
	Soukhoum ...	1015·0	57	ENE	2	b	1013·2	−1	61		ENE	2	o	—	*	55
Mediterranean.	Venice	1012·9	46	WSW	1	b	1009·4	*	41	0	S	1	rn	—	55	39
	Pesaro	1015·4	48	—	o	b	1010·6	*	41	−5	—	o	c	—	58	44
	Rome	1015·9	50	—	o	b	1009·4	*	46	0	NE	1	r	2	54	43
	Viesti	1016·5	52	—	o	b	1011·7	*	52	+4	—	o	o	—	54	46
	Brindisi	1016·6	52	ESE	1	b	1011·4	*	54	0	—	o	o	—	63	50
	Cagliari	1014·3	54	NE	4	r	1008·6	*	50	−2	W	5	r	9	64	38
	Palermo	1016·3	59	—	o	r	1009·4	*	52	−2	—	o	o	—	64	45
	Tripoli						999·9	*	64	+5	S	1	b	—	66	55
	Algiers	1014·3	45	W	2	o	1012·3	o	43	o	W	4	c	Ho	50	41
Sweden.	Hernösand ...	988·6	36	—	o	b	985·6	*	34	−7	N	2	c	*	*	*
	Stockholm ...	996·7	36	SW	4	bc	984·7	*	36	o	S	2	r	*	*	*
	Wisby	997·7	34	SW	4	o	987·8	*	36	+4	SW	2	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...						
Reykjavik	1023·5	21	−13	ESE	2	bc
Vestmanna						
Seydisfjord	1022·6	14	−15	—	o	b.
Thorshavn	1018·2	27	−11	N	3	o

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	—	42	34	b.	bc	7·6
	Banff	3	1	37	29	bcpsq	bcpsq	4·7
	Montrose	—	—	?	29	b.	bc.	9·0
	Carnoustie	*	*					
	St. Andrews...	—	Trace	39	32	ph	ph	7·5
Eng. N.E.	Harrogate	1	—	38	33	c.bc.c.b.	c.bc	5·8
	Skegness	1	Trace	41	34	or.bc	o	5·9
Eng. N.W.	Morecambe	1	—	41	36	—	—	6·5
	Southport	1	—	41	35	bc.c	c.bcs.c	6·0
Midlands.	Leamington Spa							
	Malvern	1	—	41	33	c.bc	bc.b	4·0
	Ross-on-Wye	1	—	43	35	o.bc	bc.p.	2·8
Wales.	Rhyl	1	—	40	34	or. c	bcs	6·5
	Colwyn Bay...	*	*	41	38	c.	c.bc	7·5
	Llandudno	*	*	46	39	b.	b.	7·8
	Aberystwyth	*	*	43	39	rc	b	9·0
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	1	—	42	36	bc.c.bc	bcph.c	6·6
	Felixstowe	1	1	44	34	op.bcq	bcqph	4·2
	Walton-on-Naze							
	Southend-on-Sea	Trace	1	43	38	o.c	osh.bc	2·4
England. S.E.	Margate	—	Trace	40	34	o	chq	1·2
	Ramsgate							
	Hastings	1	1	44	35	or.bc.b	b.os.b	4·0
	Eastbourne	1	—	45	39	bc.o	bch.o.c	3·2
	Seaford	*	*					
	Brighton	1	1	44	37	oprs.c	cp.bc.	5·1
	Worthing	1	—	44	34	oc.	bc	5·3
	Littlehampton	1	1	43	35	bc.	bc	4·1
	Bognor	*	*					
	Bournemouth	1	1	49	35	c	c	5·8
England. S.W.	Weymouth...	*	*	45	39	c.bc	bc	4·3
	Torquay	Trace	—	51	39	b.bc.c.bc	bc.b	9·7
	Paignton	*	*					
	Penzance	—	Trace	46	40	cph	bc	6·3
	Newquay	Trace	—	43	38	bhq	bqr	5·5
	Bude							
	Ilfracombe	2	Trace	43	40	o	osq	0·0
	Weston-s-Mare	1	—	44	37	bc.b.bc	bcq	5·5

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

27th and 28th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·42	11·59	6·15
	5·39	11·55	6·17
Greenwich	5·50	12·6	6·22
	5·47	12·5	6·23
Wick	5·58	12·18	6·38
	5·55	12·17	6·40
Valencia	6·31	12·47	7·3
	6·28	12·46	7·4

NOTES ON YESTERDAY'S WEATHER.

Low temperatures prevailed in all districts, snow and hail showers being extensively prevalent. Good sunshine records, however, were general, ten hours at Valencia.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 87. Wednesday, 28th MARCH.

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F					‡	°F.	°F.							°F.	°F				Hours.
BRITISH ISLANDS.	Lerwick ...	1000·9	38	SW	6	orq	997·8	-1	40	+5	W	2	-	o	2	4	42	35	o	orq	cp	*
	Deerness (Orkney)	1004·0	40	SSW	5	r	1001·0	*	40	+6	SW	4	W	bc	3	4	41	34	o	or	rmc.bc	1·5
	Stornoway ...	1005·9	43	WNW	5	ormq	1001·0	-4	41	+5	SW	5	-	oq	4	5	44	35	c.opq	ormq	o.bc.opq	0·0
	Castlebay (Barra Isd.)	1009·3	46	W	3	r	1004·9	-6	43	+3	SW	5	-	o	5	3	46	40	bc.or	r	bcr.o	0·2
	Glasgow ...	1014·0	37	WSW	3	cm	1007·8	-1	41	+13	W	1	-	omq	*	0·3	41	27	c.bc.bv	bc.b.bc	omdp	6·8
	Eskdalemuir ...	1015·0	37	SW	4	bcz	1009·0	-2	35	+8	SW	4	-	bm	*	2	41	27	b bz	bz.bcz	bcz.os	10·4
	Malin Head ...	1012·0	43	SW	5	omqp	1008·0	-2	43	+6	WSW	3	W	cg	4	3	45	36	b	omqp	cg	3·5
	Blacksod Point	1014·5	45	SSW	4	omr	1010·2	-5	44	+7	NW	3	NW	bc	3	1	47	36	bc	omr	omd.bc	*
	Valencia ...	1019·5	45	S	3	o	1015·9	-1	46	+14	W	2	W	o	3	2	48	32	b	b bc.o	od.o.c	8·1
	Roche's Point	1020·4	41	SW	2	bc	1015·3	*	46	+12	W	2	-	o	2	1	46	33	b	b.bc	c.or.o	*
	Birr Castle ...	1018·2	43	W	2	o	1012·9	*	44	+19	WSW	1	-	c	*	1	48	20	bc.c	c.o	cp	8·1
	Donaghadee ...	1015·2	42	W	3	omr	1009·7	0	42	+11	SW	3	-	ogm	2	3	42	31	bcz	bcz	ogmp	*
	Liverpool (Bidston)	1018·1	36	W	2	b	1011·3	-4	39	+7	SSW	1	W	r	1	1	40	32	b	b	b.or	8·6
	Holyhead ...	1018·0	39	SSW	3	b	1011·5	-2	42	+7	SW	4	-	fd	3	4	44	35	b.bc.b	b.bc.b	b.odf	10·5
	Pembroke (St. Ann's)	1026·1	38	N	2	b	1014·8	-4	40	+8	SW	4	-	or	4	1	42	32	b.bc	c.bc.b	b.or.or	10·8
	Scilly (St. Mary's)	1020·6	40	NNE	2	c	1018·6	-2	42	+4	W	4	W	cp	4	0·3	43	36	cq.bc	bc.c	b.bcp	7·5
	Falmouth ...	1019·2	39	N	2	b	1017·4	-2	38	+7	W	3	-	o	*	-	43	30	b	b	b.o	10·7
	Jersey (St. Aubin)	1016·5	40	N	3	bc	1018·0	*	32	-4	N	2	-	b	1	-	42	31	o.c.b	b.bc	bwx	7·3
	Portland Bill ...	1016·8	38	NNE	2	bc	1016·6	-1	39	+7	W	3	NW	bc	2	-	43	32	b.bc.c	c.bc	bc.b	*
	Dungeness ...	1014·3	38	NE	4	b	1015·7	-1	30	-1	NW	2	NW	b	2	-	43	25	bc	bc	b.bc	*
	Dover	1015·5	35	N	5	b	1014·1	-1	30	0	-	0		b	2	0·3	44	26	o.bc.c	bc.b	bxz	5·6
	Wick	1005·2	39	SW	4	r	1001·7	-4	38	+5	SW	3	-	bc	3	2	43	28	og	ogmr	op.bcm	*
	Nairn	1006·6	40	WSW	4	cq	1004·1	*	39	+9	-	0	-	bc	1	0·1	44	29	bcq	bcq cp	cqg	7·7
	Aberdeen	1009·8	43	SW	2	c	1005·2	-2	41	+8	W	3	W	b	2	1	45	32	c.b	b.bc.c	c.or.c	8·6
	Leith	1011·9	39	W	2	c	1007·0	-1	42	+12	WSW	1	W	c	2	0·1	43	?38	bc.bz.b	b	cz.qp.c	*
	Tynemouth ...	1015·0	38	S	2	b	1008·7	-2	40	+8	WSW	2	W	cm	3	6	42	31	bc	bm	omr	*
	Spurn Head ...	1017·0	39	ENE	3	bv	1011·6	-2	33	-3	WSW	3	-	os	4	0·2	42	31	bcq	bv	b	4·3
	Yarmouth ...	1016·1	36	NE	3	b	1013·6	-2	29	-6	SW	1	-	bcm	2	-	42	28	bc	bc	bcm	5·3
	Clacton-on-Sea	1015·7	34	NNE	3	bc	1015·1	-1	30	-1	NW	2	-	f	1	-	42	29	bc.c	c.bc	bc.bxf	2·6
	Nottingham ...	1017·1	38	NNE	1	b	1012·8	*	33	0	W	2	W	r	*	0·2	42	26	c.bc	bcps	b	4·7
	Benson (Oxon.) ...	1016·8	38	N	2	b	1014·2	-2	29	0	NNW	1	E	bcx	*	Trace	40	21	bs.bc	bc	b.bx	*
	Sth Farnborough	1015·7	39	N	3	c	1015·0	-2	30	-1	SW	2	-	bx	*	Trace	41	23	c.cps	cps.c	c.bx	3·3
	London (Kew Obsy.)	1016·4	38	N	4	bc	1015·4	-3	30	-2	-	0	N	bmx	*	Trace	42	27	bps.o.bc	bc.o.bc	bc os bx	5·8
NORTHERN EUROPE.	Spitsbergen ...	1005·8	-47	SSE	3	b	1003·7	+1	-58	+13	-	0	*	b	*	*	-42	?				
	Vardö	1000·4	2	W	4	b	989·5	+6	12	+2	SSW	1	-	o	3	*	12	2				
	Bodö	985·9	32	SSW	4	o	984·7	0	36	+20	SW	4	-	o	3	5	32	14				
	Christiansund ...	997·6	36	SW	3	o	995·1	-1	39	+11	SW	3	-	c	4	-	39	28				
	Skudesnaes ...	1010·7	36	SSW	2	c	1003·7	-3	37	+10	S	7	-	r	5	3	37	32				
	Færder (X'tania Fjord)	1011·4	30	SW	3	b	1006·6	-1	30	+3	WSW	6	-	o	3	-	30	27				
	The Scaw (Skagen)	1012·6	28	NE	2	b	1011·4	-1	28	+1	SW	2	-	b	3	-	32	18				
	Blaavands Huk	1012·7	30	NNE	2	b	1012·6	-5	27	-1	S	1	-	c	1	-	34	19				
	Copenhagen ...	1010·7	32	E	2	o	1012·7	0	30	-2	SW	2	-	m	*	-	34	28				
	Bornholm ...	1008·8	30	NE	1	o	1012·0	0	27	-5	NE	2	-	c	1	Trace	32	25				
FRANCE, &c.	The Helder ...	1014·8	30	N	3	b	1014·1	0	30	-7	-	0	NE	b	0	-	37	27				
	C. Gris Nez ...	1014·0	40	NE	5	bc	1009·1	0	34	+1	WSW	2	*	b	2	1	41	30				
	La Hêve	1014·3	37	NNE	3	o	1014·5	*	34	0	NNE	3	*	c	2	-	41	32				
	Brest (St. Mathieu)	1019·7	41	NNE	3	c	1020·0	0	41	+6	NNW	3	*	c	3	-	43	35				
	Rochefort (Ile d'Aix)	1013·1	41	NNE	6	c	1018·4	0	35	-2	NNE	5	*	b	*	-	46	34				
	Biarritz	1012·3	43	NNE	4	r	1017·7	+3	35	-2	NE	2	*	c	3	-	46	32				
	Paris	1012·0	36	NNE	2	r	1016·4	+3	32	-4	NNE	2	N	b	*	1	45	30				
	Belfort	1007·4	36	W	2	m	1013·1	*	30	-2	W	4	*	s	*	1	45	30				
	Lyons	1006·1	37	NNW	3	o	1011·8	*	35	+1	NW	3	*	o	*	2	39	34				
	Nice	1002·3	42	E	4	c	1004·4	+2	45	+8	-	0	*	b	4	3	43	37				
	Perpignan ...	1003·4	41	NW	6	o	1009·9	+5	36	-7	NW	5	-	s	*	Trace	45	34				
	Sanguinaire ...	*	48	S	3	o	*	*	48	+4	S	4	*	o	4	3	57	43				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar							*					*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...																					
	Cairo (Helwan) ...														*							

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at ...7.17..

1200 m.	W by N , 11 m/s
900 m.	WNW , 11 m/s
600 m.	W , 9 m/s
300 m.	W by N , 9 m/s
Surface	W by S , 4 m/s

GALES
Duration and Extreme Force in British Islands.

Yarmouth
NNE, 8 : 27th, at 7h, 10h, and 12h.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Min.	Min. on Grass	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	64	76	3·4	43	27	23	2	c	o.cs	c.bcx
CITY (Bunhill Row)	*	*	4·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	60	74		42	27	27	3	bc.o	bc.o	bc.or.b
CAMDEN SQ. (British Rainfall) ..	63	64	4·0	44	27	25	1	bc	bc	*
HAMPSTEAD (Reservoir)	*	72	5·7	40	25	18	-	bcs	bx	bcx
S. KENSINGTON (Museum Grounds)	*	73	4·0	43	28	23	1	bc.o	c.bc	bc.ox
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

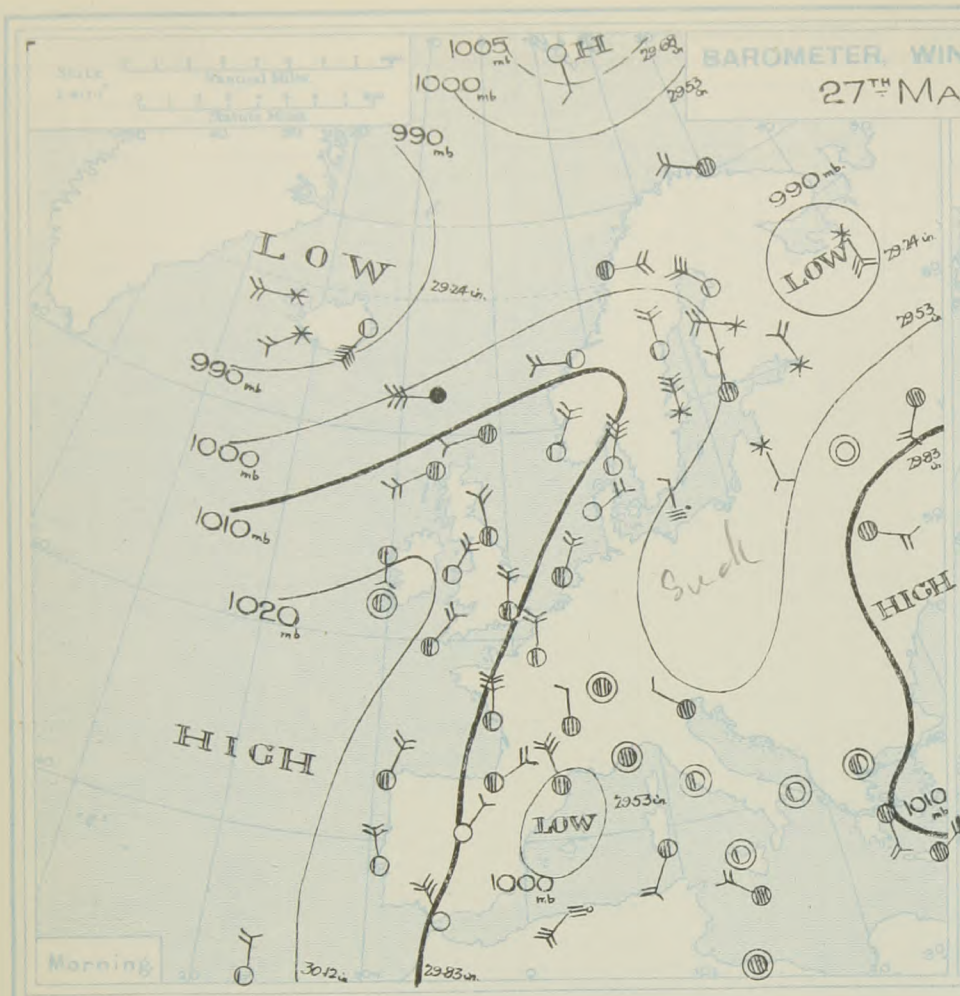
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
916	20.3	65

Temperatures at Greenwich and Camden Square are from Glaisher screens.

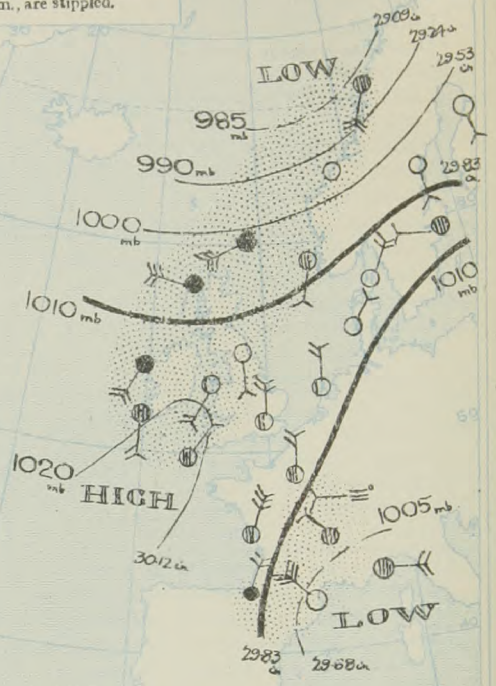
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR

27TH MARCH, 1917.

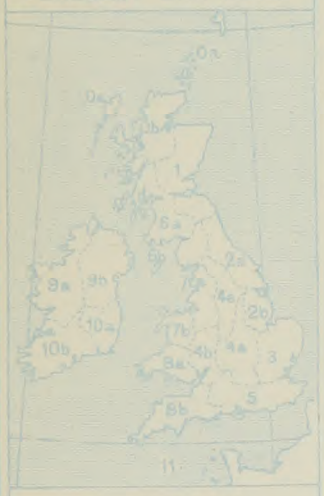


NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

Western Channel and Bay

0 a b
1
2 a b
3
4 a b c
5
6 a b
7 a b
8 a b
9 a b
10 a b
11

Light to moderate Westerly breeze; generally fair to fine, some local passing showers; temperature rising.

Moderate Westerly to Northerly breeze; sea moderate; fine generally, some passing showers; rather cold.

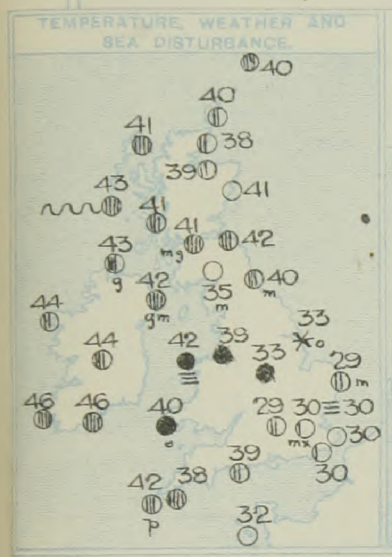
FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR THE MORNING OF WEDNESDAY, 28TH MARCH, 1917.

GENERAL INFERENCE.

A milder Westerly type of conditions is likely to spread to all districts.



EXPLANATION.

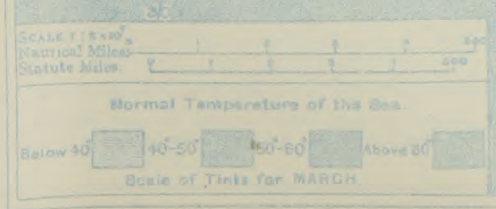
BAROMETER.—Isobars are drawn for intervals of five millibars.

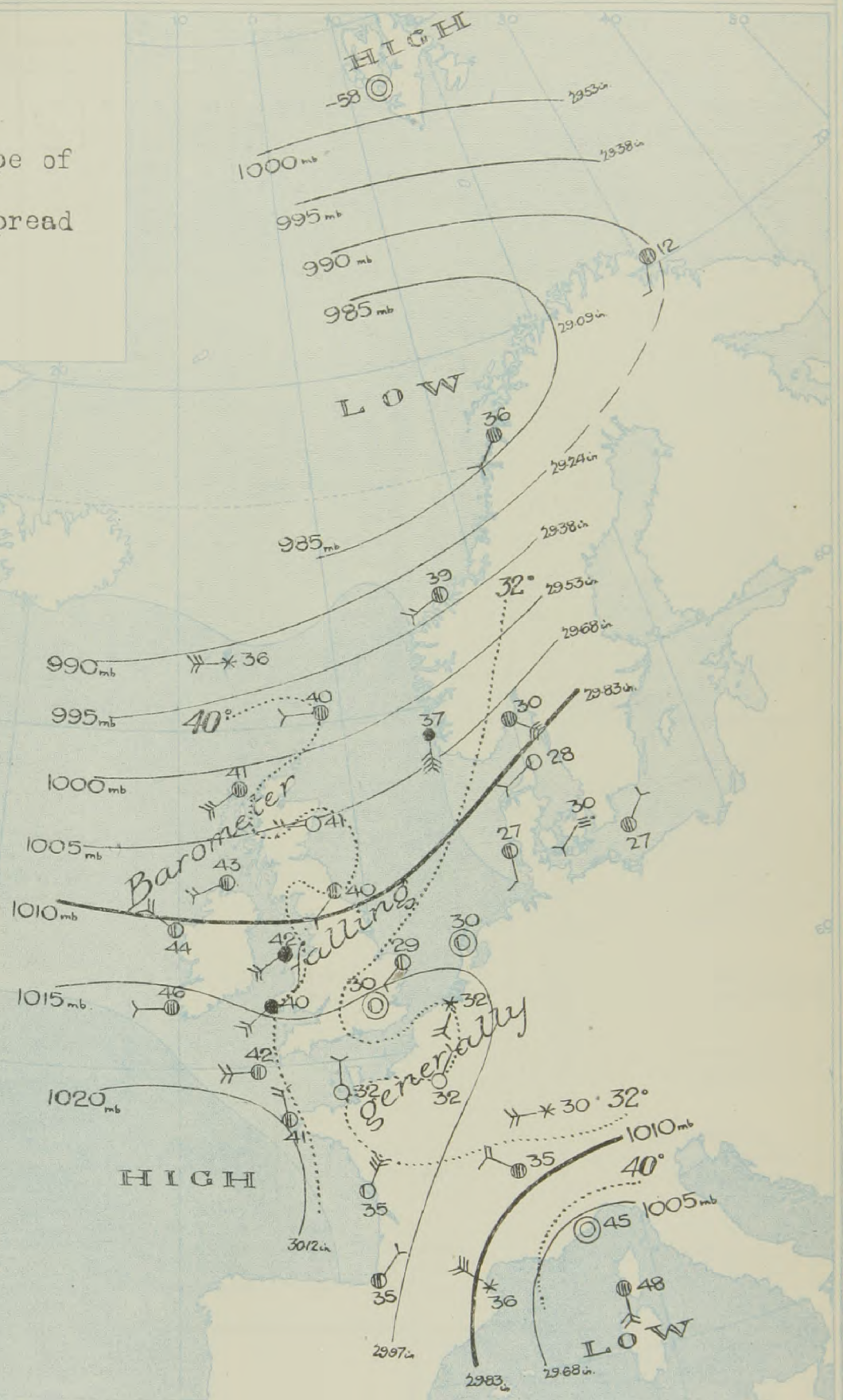
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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. 20,215

DAILY WEATHER REPORT.

Wednesday. 28th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.						°F.	°F.					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel ...	994·6	30	S	5	c	989·2	−5	30	+2	S	8	S	—	*	27
	Gorki	1002·8	28	—	0	c	1004·0	?	16	−7	—	0	b	—	*	16
	Velieki Luki ...	1002·3	25	SE	2	b	1003·8	*	28	+1	S	2	bc	—	*	23
	Hangö	999·7	34	SSW	6	o	995·5	+3	28	−4	NNW	2	o	5	*	28
	Riga	997·3	34	S	1	o	998·3	+2	32	+7	S	2	S	8	*	25
	Petrograd ...	995·5	34	S	4	o	995·4	−1	36	+9	NNW	3	S	—	37	27
	Moscow	1004·8	28	SSE	2	o	1006 6	+3	30	+12	SW	3	o	—	*	18
	Kiev	1010·1	34	W	3	b	1010·7	−1	30	−4	SE	3	o	—	*	28
	Kharkov ...	1009·3	36	W	2	o	1015·0	+3	34	+2	SW	2	o	—	*	34
	Kishinev ...														*	
	Elisabetgrad ...	1012·2	36	WNW	2	b									*	
	Nicolaiev ...							*							*	
	Odessa														*	
	Tarkhankout...							*							*	
	Soukhoum ...														*	
Mediterranean.	Venice	1001·4	43	—	0	r	1000·2	*	41	0	NW	1	o	6	52	41
	Pesaro	1000·7	46	—	0	o	1001·7	*	45	+4	SW	1	b	2	64	39
	Rome	1003·3	48	—	0	o	1003·0	*	52	+6	—	0	b	1	67	45
	Viesti	1002·1	54	—	0	b	1001·8	*	54	+2	—	0	b	—	57	46
	Brindisi	1002·6	59	SE	2	o	1002·3	*	52	−2	—	0	b	—	64	50
	Cagliari						1004·9	*	52	+2	SSW	3	c	3	61	48
	Palermo	1005·0		SSW	1	o	1004·2	*	54	+2	—	0	b	—	64	41
	Tripoli						1002·2	*	59	−5	—	0	o	—	72	59
	Algiers	1009·3	46	SW	2	b	1003·7	−1	46	+3	SW	5	m	1	55	43
Sweden.	Hernösand ...	989·5	25	NNW	4	c	1003·9	*	18	−16	N	4	b	*	*	*
	Stockholm ...	984·4	39	S	2	o	1004·1	*	23	−13	N	6	S	*	*	*
	Wisby	989·9	34	SW	4	b	999·4	*	28	−8	NE	6	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord ...	989·0	36		W	4	S
Reykjavik	994·6	36	+15	SW	3	S
Vestmanna						
Seydisfjord	989·0	41	+27	SW	9	b
Thorshavn	1000·2	41	+14	WSW	6	r

Hours of Observation G.M.T.

	Morning. h.	Evening. h.
British Isles	7	18
France	7	18
Norway	7	18
Sweden	7	17
Denmark	7	18
Holland	7	18
Italy	7	20
Egypt	6	18
Corunna...	7	16
Madrid	8	16
Lisbon	7	21
Azores	8	17
Madeira	7	2
Malta	8	
Limassol	6	

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature Max.	Temperature Min.	Weather. Forenoon.	Weather. Afternoon	Sunshine
		Mm.	Mm.	F.	F.			Hr.
Scotland.	Oban	—	1	41	26	c	or	0·3
	Banff	Trace	Trace	44	32	c.bc	bc.or	6·4
	Montrose	—	—	45	29	b.	bc	9·9
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	1	—	42	24	bc.c	bc.b	7·8
	Skegness	Trace	—	40	31	bc	bc	6·6
Eng. N.W.	Morecambe							
	Southport	—	—	41	28	b	b	10·3
Midlands.	Leamington Spa							
	Malvern	—	—	40	28	b.bc	bc.b	6·2
	Ross-on-Wye	—	—	44	24	bcx	bc.b	6·2
Wales.	Rhyl	—	—	40	32	bc.	b.	10·4
	Colwyn Bay...	*	*	40	32	bc.	bc.	9·5
	Llandudno	*	*	41	33	b.	b.	10·5
	Aberystwyth	*	*	40	29	hc.c	b.bc	10·0
	Tenby							
England. E.	Lowestoft	Trace	—	40	33	c.bc	bc	4·1
	Felixstowe	1	—	41	30	bcq	bcq	
	Walton-on-Naze	1	—	40	30	b.bc.c	c. b.	
	Southend-on-Sea	Trace	Trace	43	30	b.bc.c.o	bc.c.op	
England, S.E.	Margate	—	—	40	33	bc.b	b.bc.c.b	
	Ramsgate							
	Hastings	—	—	41	30	bc.b	b.bc	
	Eastbourne	—	—	44	31	bc.o	o.bc	
	Seaford	*	*	43	30	c.	c	
	Brighton							
	Worthing	—	—	42	31	bc.	bc.	4
	Littlehampton	—	—	41	31	bc.	bc.	6
	Bognor	*	*	43	31	bc s.	s.bc s.bc	6·5
	Bournemouth	—	—	43	29	bc.	c.	5·7
England. S.W.	Weymouth...	*	*	44	29	b.	b.bcx.	8·0
	Torquay	Trace	—	47	30	b.	b.	10
	Paignton	*	*					
	Penzance	—	—	44	35	bc	bc.b	10·4
	Newquay	—	—	40	32	b.	b.	9·7
	Bude							
	Ilfracombe	—	—	44	33	b.	b.	10·0
	Weston-s-Mare	—	—	44	31	bc.b.	bc.b	8·0

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

28th & 29th March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	6·29	11·58	6·19
	5·36	11·58	6·19
Greenwich	5·47	12·5	6·23
	5·45	12·5	6·25
Wick	6·55	12·19	6·40
	5·52	12·19	6·42
Valencia	6·28	12·46	7·4
	6·26	12·46	7·6

NOTES ON YESTERDAY'S WEATHER.

Temperature continued low generally. Light rain or snow showers fell in some localities. Much sunshine was registered in many places, over ten hours at several 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.

‡ The barometric change is expressed in half-millibars.

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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 88. Thursday 29th MARCH.

	STATIONS.	YESTERDAY EVENING: Barom. Millibars at M.S.L.	Temp.	Wind: Direc.	Wind: Force 0–12.	Weather.	THIS MORNING: 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 ...	989·9	41	SW	3	o	979·3	−3	39	−1	ENE	4	–	o	4	6	43	38	op	or	c.op	*
	Deerness (Orkney)	991·5	40	SW	3	o	979·0	*	33	−7	N	1	–	rs	1	8	45	33	bc.or	or	ors	0·5
	Stornoway ...	989·7	44	WSW	3	cp	978·5	−1	35	+6	W	1	–	c	1	8	44	34	op	o.cp	op.or.c	0·5
	Castlebay (Barraisd.)	991·1	42	S	4	op	982·6	0	40	−3	W	5	W	c	5	6	46	37	op	op	opr.o.c	0·2
	Glasgow ...	995·6	39	SSW	3	omr	985·1	−3	35	−6	SW	4	–	osp	*	9	46	32	o.cm	omr	or.osp	1·0
	Eskdalemuir ...	997·0	40	SSW	6	orm	986·5	−3	33	−2	SW	7	W	bc	*	17	47	32	bm.c.c.o	o.orm	or.os.c	2·5
	Malin Head ...	994·4	40	SSW	4	og	986·5	−3	39	−4	W	7	NW	cq	6	13	46	35	bc	omr	cq/p	0·9
	Blacksod Point	996·9	43	WSW	7	omqh	992·2	−7	38	−6	W	5	NW	bcq/p	5	10	48	35	omr	omqr	bcphl	*
	Valencia ...	1005·8	47	SW	6	o	999·0	−2	42	−4	W	5	W	cpq	5	5	53	38	o.c.o	ocp	cpq	1·4
	Roche's Point	1006·5	49	SW	3	o	999·4	*	39	−7	NW	3	NW	c	2	1	53	38	c.o	op.o	op.c	*
	Birr Castle ...	1001·0	44	SW	3	r	994·5	*	?	?	SW	2	–	c	*	5	52	34	c.o	c.or	or.cps	1·4
	Donaghadee ...	997·6	44	WSW	4	ogm	987·6	−3	35	−7	WSW	5	SW	bcq	4	5	52	34	ogmq	ogmp	oq/p.bc	*
	Liverpool (Bidston)	1003·1	46	SSW	4	o	992·9	−3	38	−1	WSW	5	–	b	5	3	50	35	o	bc.o	c.bq	2·3
	Holyhead ...	1001·2	45	SW	5	omqg	993·1	−2	39	−3	W	6	W	b	5	1	51	35	bc.c	c.o/m	op.c.bc	4·7
	Pembroke (St. Ann's)	1007·4	44	SW	4	c	998·5	−2	42	+2	W	5	W	cq	4	2	46	39	orf.c	c	cq.oq/p	3·0
	Scilly (St. Mary's)	1012·6	47	W	5	fd	1003·3	−2	45	+3	NW	5	NW	cp	5	3	52	42	cmp.c	fd	epq	0·6
	Falmouth ...	1011·7	42	WSW	4	odm	1001·9	−2	41	+3	WSW	6	–	r	*	2	53	38	o	o.bc.c.o	odrg	1·7
	Jersey (St. Aubin)	1014·4	42	WSW	4	ogr	1004·6	*	45	+13	WSW	5	–	oq/p	4	2	45	32	b.bc.c	ogpr	odgp	5·0
	Portland Bill ...	1009·0	44	WSW	4	bc	1000·3	−3	42	+3	W	5	–	or	4	2	44	39	bc.cp	bc.om	c.or	*
	Dungeness ...	1010·3	40	WSW	4	op	998·3	−3	43	+13	WSW	5	W	c	4	2	43	30	bc	bc.op	cpm.cp	*
	Dover	1010·0	40	SW	2	r	1002·9	−4	42	+12	SW	6	W	o	4	2	42	?30	bc	ber	org	2·1
	Wick	992·6	41	WSW	1	r	979·1	−7	37	−1	–	0	–	o	2	2	45	35	bcm.og	ogmr	omp.og	*
	Nairn	991·9	38	W	1	og	979·0	*	35	−4	–	0	–	bc	1	1	49	33	bc.cq	cq/p.o	o.bx	3·2
	Aberdeen	994·1	43	SSW	3	r	980·2	−2	38	−3	SSW	3	SW	c	3	2	50	37	bc.c.o	or	or.o.c	2·9
	Leith	995·3	42	SW	4	r	983·5	−2	37	−5	WSW	4	W	c	3	4	51	35	c.o.bc.c	bc.c.o	orp.u.c	*
	Tynemouth ...	999·5	48	SSW	3	cm	986·8	−2	38	−2	W	4	W	bqm	3	1	50	36	cm	cm	cmq/p	*
	Spurn Head ...	1006·0	43	WSW	3	om	993·2	−2	40	+7	SSW	4	–	cq	5	0·3	46	32	om	om	cq/p	0·0
	Yarmouth ...	1007·4	40	SW	3	o	998·0	+1	39	+10	WNW	4	–	omr	3	3	43	28	bcmp	om	omdq/p	0·0
	Clacton-on-Sea	1008·8	41	WSW	3	o	996·7	−5	42	+12	WSW	3	SW	o	3	1	42	29	fc.ogd	ogd.og	ogp	0·0
	Nottingham ...	1004·9	46	SW	3	c	994·0	*	39	+6	W	4	W	b	*	3	49	33	or	c.o	c.o	0·1
	Benson (Oxon.) ...	1008·3	43	SSW	2	o	996·8	0	40	+11	SW	4	SW	o	*	1	44	28	or.od	o	opq	*
	Sth Farnborough	1008·1	42	SW	4	o	997·6	−3	40	+10	SW	4	–	or	*	0·3	47	29	b.o	od.om	o.b.orv	1·7
	London (Kew Obsy.)	1008·8	43	SW	4	o	997·5	−2	43	+13	WSW	5	–	o	*	0·1	45	29	bmx.c.od	o.do	o.bcm.o	1·4
NORTHERN EUROPE.	Spitsbergen ...	1006·0	−53	–	0	b	1010·7	+3	−51	+7	SE	2	*	b	*	*	−42	−58				
	Vardö	995·8	16	N	2	s	1003·9	+2	12	0	–	0	–	o	2	*	16	5				
	Bodö	988·8	36	E	4	o	986·7	−2	37	+1	ESE	4	–	o	2	?	37	32				
	Christiansund ...	992·4	39	–	0	r	987·9	−1	39	0	–	0	–	m	3	2	43	28				
	Skudesnaes ...	997·2	39	W	6	r	985·5	−9	41	+4	SSE	11	–	r	7	5	41	37				
	Færder (X'tania Fjord)																					
	The Scaw (Skagen)																					
	Blaavands Huk																					
	Copenhagen ...	1011·1	36	W	3	o	1005·2	−4	34	+4	SW	3	–	m	*	–	37	28				
	Bornholm ...	1010·6	30	W	4	o	1007·8	−2	30	+3	SSW	5	–	m	1	–	30	27				
FRANCE, &c.	The Helder ...	1009·7	36	S	4	b	995·8	−8	37	+7	S	8	–	r	4	1	37	30				
	C. Gris Nez ...	1011·1	39	SW	5	o	998·9	−5	42	+8	SSW	6	*	o	5	3	42	34				
	La Hêve	?1013·5	39	W	4	o	1005·3	*	43	+9	WSW	5	*	r	4	?	45	34				
	Brest (St. Mathieu)	1015·9	44	WSW	5	o	1007·5	−3	49	+8	W	5	*	o	4	–	49	41				
	Rochefort (Ile d'Aix)	1019·1	43	NW	4	bc	1014·7	0	47	+12	W	4	*	r	*	Trace	48	34				
	Biarritz	1020·3	44	NNW	2	c	1020·8	+1	45	+10	SW	4	*	o	3	–	46	85				
	Paris	1014·6	41	S	2	o	1008·0	−3	39	+7	SSW	3	–	o	*	3	43	32				
	Belfort	1016·2	30	E	4	o	1017·9	*	25	−5	W	2	*	c	*	Trace	39	21				
	Lyons	1015·9	33	NNW	3	s	1018·0	*	30	−5	W	3	*	o	*	1	44	29				
	Nice	1006·0	45	SW	3	c	1002·1	+9	43	−2	–	0	*	b	?	–	54	37				
	Perpignan ...	1015·8	45	NW	4	c	1018·3	+3	45	+9	NW	3	NW	o	*	Trace	50	36				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1017·9	46	E	1	b	1024·6	+2	34	−2	–	0	–	b	*	–	48	27				
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar								*				*									
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*																
	Alexandria ...																					
	Cairo (Helwan) ...														*							

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

GALES
Duration and Extreme Force in British Islands.

Eskdalemuir
Gust, 19 m/s : 28th at 18.h

Valencia
Extreme: W 8 : 28th at 21h.
Gust: 24 m/s

LONDON OBSERVATIONS.

	Humidity: 15 h. Yesterday.	Humidity: 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature: Max.	Temperature: Min.	Temperature: Min. on Grass.	Rainfall.	Weather: Morning.	Weather: Afternoon.	Weather: Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	72	72	1·6	46	37	35	Trace	c.o	bc.cr	o.e
CITY (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	70	72	1·0	46	38	35	–	bd.b	b	b.oe.bc
CAMDEN SQ. (British Rainfall) ...	72	71	0·0	46	40	40	Trace	o	o	*
HAMPSTEAD (Reservoir)	*	73	0·1	43	32	28	Trace	c.od	o	oe
S. KENSINGTON (Museum Grounds)	*	74	1·3	46	36	39	Trace	bc.o	o	o
RICHMOND PARK	*	*		*	*	*	*	*	*	*

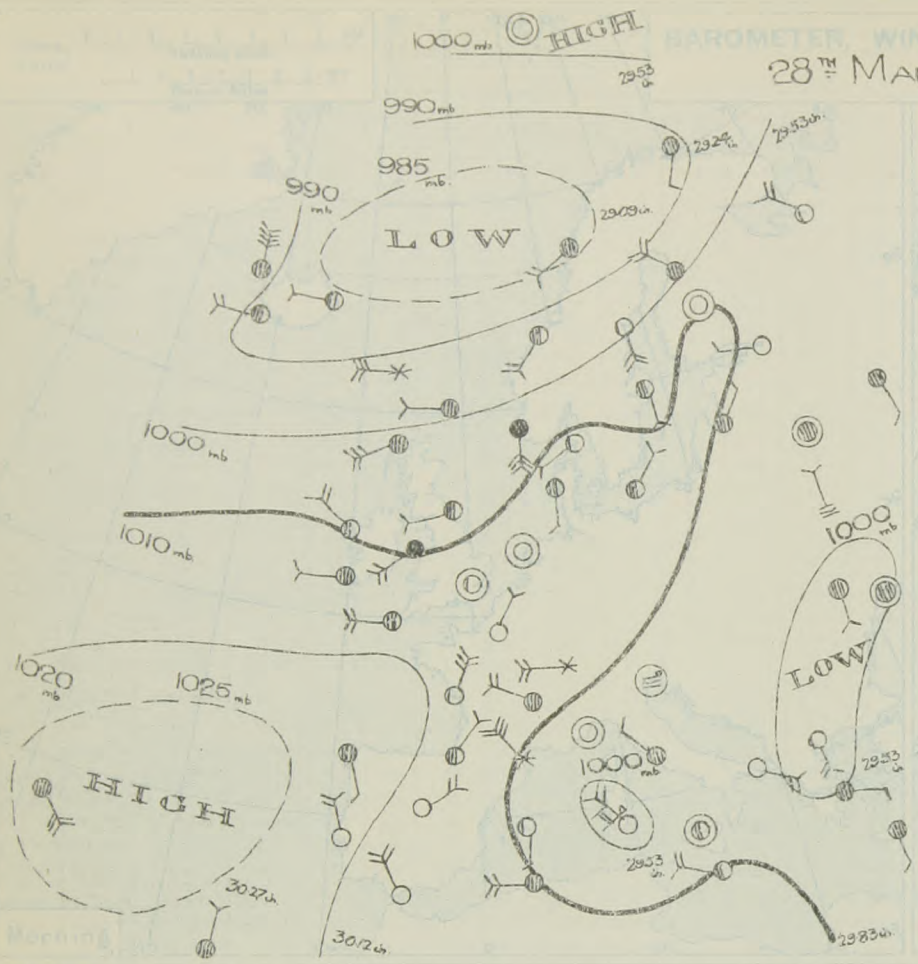
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

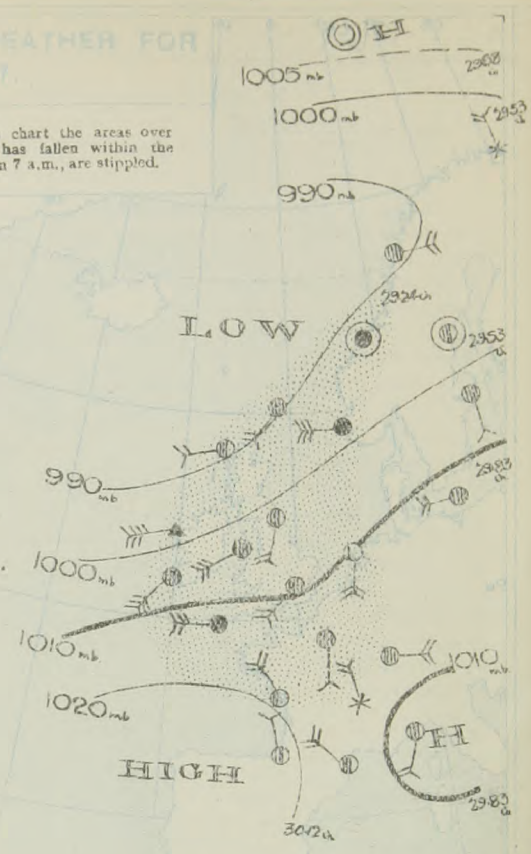
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
667	14·7	43·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

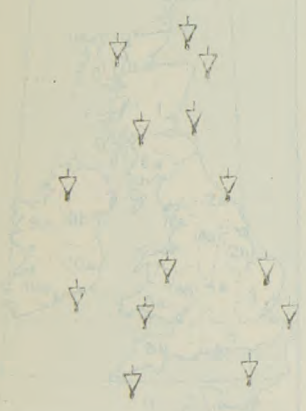
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.



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 THURSDAY TO NOON FRIDAY.



STORM WARNINGS.

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

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

South Cone hoisted yesterday.

Increasing Northerly wind, squally, strong to gale; some sleet or snow; cold.

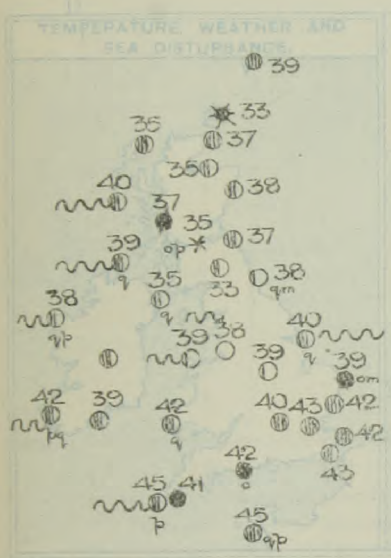
Wind between South-West and North-West, squally strong to gale; some rain, snow or hail showers; cold.

Strong squally Westerly to North-Westerly wind; rough sea and swell; dull, some rain; cold.

SYNOPTIC CHART FOR THE MORNING OF ~~TUESDAY~~ THURSDAY 29TH MARCH, 1917.

GENERAL INFERENCE.

As the deep depression in the North passes Eastward or South-Eastward the wind over the British Isles will veer into the North-West quarter with decreasing temperature and cold showers.



EXPLANATION.

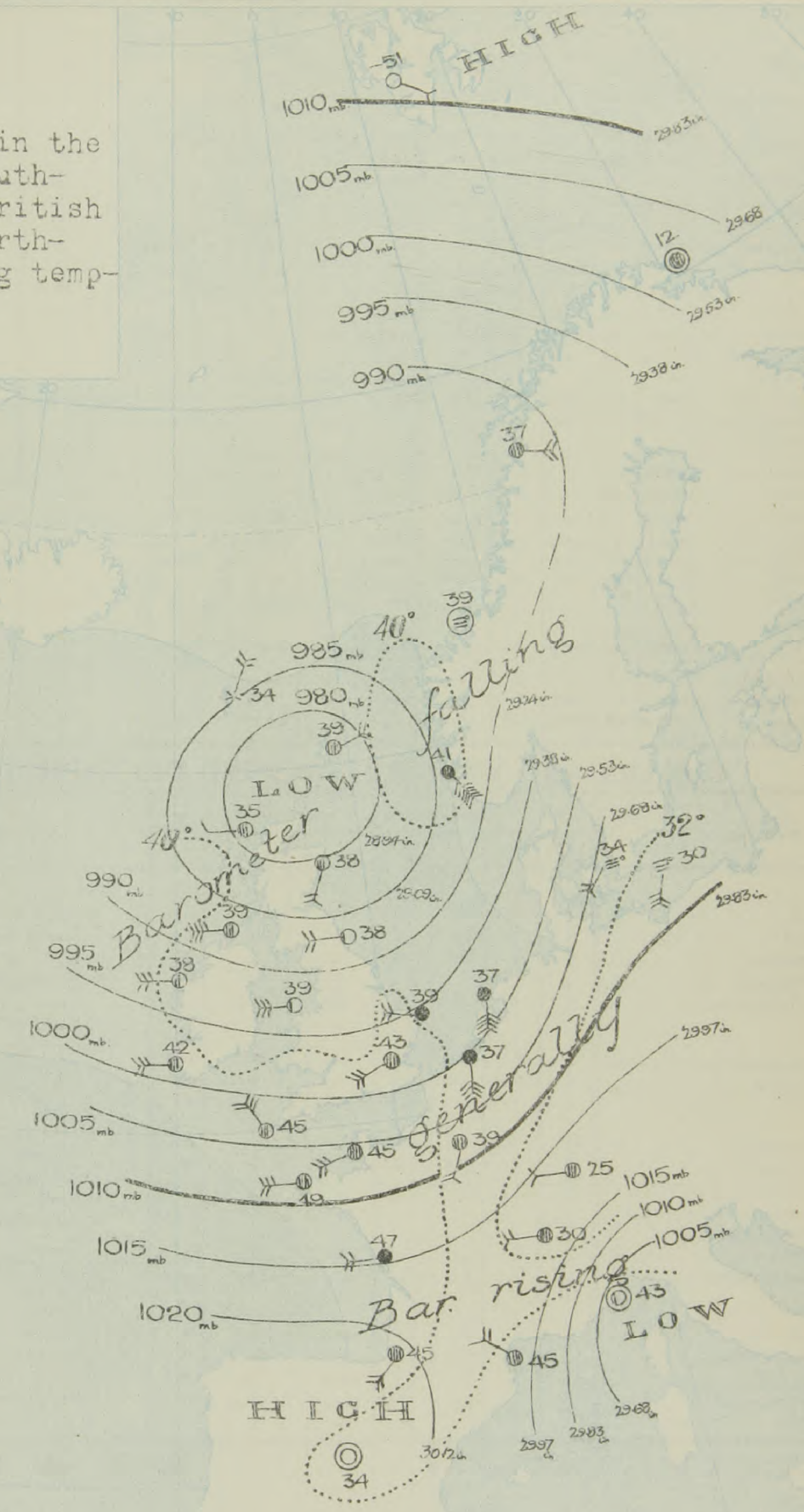
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



Issue No. 20,216

DAILY WEATHER REPORT.

Thursday 29th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel	994·6	21	NW	6	S	1004·3	+3	0	-30	NNW	3	b	–	*	-2
	Gorki	1006·3	32	–	0	b	1003·7	?	30	+14	–	0	0	–	*	16
	Velieki Luki						1006·9	*	27	-1	SSW	1	f	–	*	25
	Hangö	1010·9	18	–	0	b	1011·5	-1	7	-21	–	0	b	–	*	5
	Riga	1007·4	28	NNE	4	0	1009·3	+1	23	-9	NNE	1	0	3	*	23
	Petrograd	1005·0	25	N	4	S	1009·7	+1	5	-31	WNW	1	b	1	36	3
	Moscow	1009·2	34	SSW	3	0	1008·0	-1	28	-2	S	1	0	–	*	27
	Kiev	1002·6	36	E	3	f	1001·2	-2	32	+2	N	2	f	–	*	30
	Kharkov	1008·2	39	ESE	3	0	1001·6	-2	39	+5	–	0	0	–	*	34
	Kishinev	999·8	52	S	4	b	998·9	+2	50		S	2	0	3	*	45
	Elisabetgrad	1002·4	45	SSE	1	b	999·1	-4	39		SSE	1	0	1	*	36
	Nicolaiev						1000·0	*	46		–	0	0	–	*	43
	Odessa	1007·1	48	SW	4	b	1000·3	-2	50		W	2	0	–	*	46
	Tarkhankout	1005·5	50	SSE	8	bc		*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1004·9	46	–	0	b	1005·9	*	41	0	–	0	m	–	50	41
	Pesaro	1005·2	48	–	0	b	1006·3	*	45	0	–	0	0	–	57	39
	Rome	1003·9	48	–	0	b	1005·1	*	41	-11	NW	1	0	–	59	39
	Viesti	1004·2	57	WNW	1	bc	1006·2	*	58	+4	NW	1	bc	–	59	46
	Brindisi	1001·1	55	NE	2	b	1004·6	*	52	0	ESE	3	b	–	64	52
	Cagliari	1001·9	59	W	4	c	999·5	*	52	0	NW	3	b	5	61	48
	Palermo	1003·8	50	–	0	c	1008·2	*	55	+1	–	0	bc	–	64	45
	Tripoli							*								
	Algiers	1008·3	45	WSW	2	bc	1010·6	+2	45	-1	W	4	0	15	50	43
SWEDEN.	Hernösand	1009·7	23	S	2	b	999·8	*	25	+7	S	4	b	*	*	*
	Stockholm	1012·7	23	NW	2	0	1009·6	*	23	0	S	2	c	*	*	*
	Wisby	1009·8	23	NNE	4	b	1009·6	*	23	-5	SSE	2	b	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	995·4	21	-15	N	8	0
Reykjavik	986·6	30	-6	W	3	c
Vestmanna						
Seydisfjord	986·7	28	-13	W	2	c
Thorshavn	991·8	36	-5	W	5	s

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h. Mm.	Rainfall Day. 9h-18h. Mm.	Temperature. Max. F.	Temperature. Min. F	Weather. Forenoon.	Weather. Afternoon.	Sunshine Hr.
Scotland.	Oban	3	10	46	29	cr.	o	0·3
	Banff	3	1	50	38	c.bc	bc.c.or	3·4
	Montrose	2	1	50	37	bc	o	3·1
	Carnoustie	*	*					
	St. Andrews	–	2	50	37	bcp	bcp	4·3
Eng. N.E.	Harrogate	5	–	48	29	o.c	bc.c	2·8
	Skegness	–	Trace	43	27	od.	o.	0·0
Eng. N.W.	Morecambe	5	–	47	33	–	–	3·4
	Southport	4	–	49	32	oc.c	c.bc.c	2·7
Midlands.	Leamington Spa							
	Malvern	–	–	47	32	c	c.	0·0
	Ross-on-Wye	–	–	48	24	o.c	oc.bc	0·2
Wales.	Rhyl	1	–	52	31	bcd	c.bc	3·4
	Colwyn Bay	*	*	53	34	c.	bc.o	3·0
	Llandudno	*	*	51	35	cr.b	b.	3·5
	Aberystwyth	*	*	44	32	or.c	bc.o	2·0
	Tenby							
England. E.	Lowestoft	–	–	43	28	c.op	o	0·6
	Felixstowe	–	–	41	28	bc.om	om	1·1
	Walton-on-Naze	–	1	40	28	bc.c	cd.c	0·9
	Southend-on-Sea	–	–	44	29	o.	o.	0·3
England, S.E.	Margate	–	–	46	29	bc.c	o	2·3
	Ramsgate							
	Hastings	–	Trace	43	29	b.bc	od	3·3
	Eastbourne	–	Trace	45	29	o.bc	oc.d	2·1
	Seaford	*	*	43	29	c	or	2·3
	Brighton	–	–	42	26	c.o	o	2·5
	Worthing	–	1	45	26	b.bc	od	2·7
	Littlehampton	1	–	42	28	b.o	or.	2·6
	Bognor	*	*	43	28	gr	gr	2·5
	Bournemouth	–	–	44	29	b.o	o.	2·3
England. S.W.	Weymouth	*	*	45	29	bc.c.o	om	2·0
	Torquay	–	Trace	51	30	o.	o.c.bc	1·0
	Paignton	*	*					
	Penzance	–	1	52	32	omr	c.om.	0·7
	Newquay	–	1	49	32	d.	d.bfe.	1·2
	Bude	2	Trace	47	38	o	o	0·0
	Ilfracombe	Trace	1	49	35	or.c	bc.c	2·5
	Weston-s-Mare							

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

29th and 30th March. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T
Yarmouth	5·36	11·58	6·19
	5·34	11·58	6·21
Greenwich	5·45	12·5	6·25
	5·43	12·5	6·27
Wick	5·52	12·17	6·42
	5·48	12·17	6·45
Valencia	6·26	12·46	7·6
	6·28	12·46	7·8

NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° in several localities; showers of rain sleet or snow fell generally. There was a marked reduction in the sunshine records, Jersey alone registering as much as five hours.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 89

Friday, 30th March

	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F	Wind. Direc	Wind. Force 0–12.	Weather.	THIS MORNING. 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 ...	972·4	39	NE	5	o	979·3	+1	38	-1	N	6	-	oq	5	17	40	35	or	orsp	oqp	*
	Deerness (Orkney)	974·6	39	N	7	op	981·4	*	39	+6	NW	5	-	bc	5	11	41	33	osr	orp	opq.cbc	0 0
	Stornoway ...	981·1	40	[illegible]E	3	bcph	987·9	+3	36	+1	N	4	-	bc	4	2	43	35	op	o.bcprh	bcp	1·0
	Castlebay (Barra Isd.)	982·0	38	NW	4	r	988·9	+4	38	-2	N	3	-	c	3	6	43	37	csp.c	c.or	or.c	0·8
	Glasgow ...	983·7	36	W	4	c	985·5	+3	34	-1	WNW	1	N	cm	*	7	42	31	oqshp	cqhp	chp.cx	2·9
	Eskdalemuir ...	984·5	35	WSW	5	bv	986·3	+2	33	0	-	0	N	o	*	1	40	31	bc.c.os	chp.bc	b.opc	2·5
	Malin Head ...	984·8	40	WNW	5	bcq	986·5	+3	38	-1	ENE	4	N	cmg	5	6	42	35	cqph	bcq	omr	8·0
	Blacksod Point	989·8	39	WNW	3	bc	990·1	0	38	0	WNW	3	NW	bcqp	3	4	44	35	bcqph	bcqp	bcqph	*
	Valencia ...	993·9	42	WSW	5	c	993·5	+2	40	-2	WNW	3	W	bc	3	2	45	37	bcqph	c.bcph	bl.bcp	6·2
	Roche's Point	992·7	42	W	3	bc	993·1	*	37	-2	W	3	NW	bc	3	0·3	46	34	cpq.ch	cqh.bc	cp.bc	*
	Birr Castle ...	989·9	41	W	2	c	991·0	*	32	...	SW	1	-	b	*	1	45	30	cph	cph	bx	8·4
	Donaghadee ...	986·4	40	W	4	bcqph	985·4	+2	36	+1	WNW	5	-	omps	4	1	45	33	bcqph	bcqph	bcmps	*
	Liverpool (Bidston)	988·8	40	WSW	3	bc	987·7	0	37	-1	WSW	4	W	c	3	-	45	35	b	bc	bc	7·9
	Holyhead ...	988·9	39	WSW	4	bcg	988·6	0	38	-1	W	6	W	bc.	5	2	46	35	b.bc.o	cps. bc	c.bcxc	6·2
	Pembroke (St. Ann's)	992·5	42	W	6	bcq	991·8	+2	40	-2	WNW	4	NW	c	5	1	44	36	cq.bcq	bcqp	bcqph	8·2
	Scilly (St. Mary's)	998·1	41	WNW	5	cpqh	995·3	-1	42	-3	NW	6	NW	cq	6	6	46	38	omr	cpqh	cph.cq	0·8
	Falmouth ...	996·6	41	WSW	3	b	993·4	+2	37	-4	WNW	6	-	o	*	8	44	35	od	od.cph	cqph	0·5
	Jersey (St. Aubin)	998·6	44	WSW	4	oqp	995·4	*	40	-5	WSW	4	-	o	3	12	47	35	oqp	oqp	oqrh	0·0
	Portland Bill ...	995·3	42	WSW	5	cp	992·2	-1	40	-2	W	5	W	c	4	1	43	38	o.c	c	cp.bc	*
	Dungeness ...	994·0	41	SW	5	c	992·1	0	39	-4	WSW	4	SW	bc	4	3	44	38	c	c	bqr.bc	*
	Dover	994·3	41	SW	6	c	992·6	c	38	-4	SW	4	SW	b	2	1	44	35	o	o.c	cpr.b	0·0
	Wick	977·0	40	NNE	4	o	982·4	+6	38	+1	N	5	-	bc	4	7	41	35	ogr mp	omp	bcpmq	*
	Nairn	?979·3	33	-	0	orsg	984·9	*	39	+4	NW	4	-	cw	3	6	45	33	cq	prsv	opqu.hp	3·5
	Aberdeen	978·6	41	WSW	4	c	981·1	+3	39	+1	NW	5	-	oqp	3	6	48	36	bc.c	cqp	oprq	2·8
	Leith	982·0	38	W	4	bc	984·1	+1	35	-2	W	1	NW	c	2	1	44	34	cq.cp.c	ch.cp.c	bc.opc	*
	Tynemouth ...	985·3	40	WSW	3	bcqm	984·2	0	34	-1	W	2	W	cm	2	-	45	34	bcqm	bcqm	cm	*
	Spurn Head ...	989·7	43	W	4	bc	987·1	0	34	-6	WSW	3	-	bcx	4	1	45	33	cq	cq	bcp	4·1
	Yarmouth ...	991·4	42	SW	5	bc	990·0	0	34	-5	WSW	3	-	bc	2	1	50	33	omr.bcm	bcq	bcm	7·0
	Clacton-on-Sea	993·2	42	SSW	5	c	991·1	0	36	-6	W	4	W	bc	3	1	48	35	o.c.bc.c	c.o.c	cp.bc	5·4
	Nottingham ...	989·9	44	W	4	b	988·8	*	32	-7	SW	1	W	bx	*	Trace	49	30	bcps	bc.b	bc	9·7
	Benson (Oxon.) ...	992·7	42	WNW	4	bc	?989·6	+1	34	-6	SW	3	-	bx	*	-	48	32	c	bc	bc.b	*
	Sth Farnborough	993·6	39	SW	3	c	991·4	0	35	-5	WSW	3	W	b	*	0·2	49	32	or.o	op.c	op.b	1·3
	London (Kew Obsy.)	993·5	43	SW	3	c	991·4	+2	36	-7	SW	3	W	bm	*	1	49	34	o.c.orhp	c.orhp.c	c.bcmx	2·2
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö																					
	Christiansund ...																					
	Skudesnaes ...																					
	Færder (Xiania Fjord)																					
	The Scaw (Skagen)	989·7	34	SSE	6	s	988·3	-1	36	+2	SSW	4	-	-o	5	2	?41	28				
	Blaavands Huk	991·9	34	SW	3	c	987·8	0	34	0	S	2	-	f	2	1	36	30				
	Copenhagen ...	996·4	34	SW	3	s	990·3	-2	34	0	SSW	1	-	f	*	2	37	32				
	Bornholm ...	999·4	36	S	7	m	991·8	+3	34	+4	SSW	6	-	s	1	4	36	30				
FRANCE, &c.	The Helder ...	992·6	39	SSW	4	bc	989·3	0	37	0	SSW	3	-	c	2	4	43	37				
	C. Gris Nez ...	995·0	40	SW	6	o	991·8	-1	39	-3	WSW	5	*	c	4	4	43	37				
	La Hève	999·4	42	WSW	5	r	998·4	*	37	-6	WSW	5	*	r	?	14	48	36				
	Brest (St. Mathieu)	1001·6	45	WSW	5	r	998·1	-2	43	-6	W	6	*	o	4	5	52	41				
	Rochefort (Ile d'Aix)	1010·9	48	SW	7	c	1004·6	-2	47	0	WSW	7	*	r	*	11	54	46				
	Biarritz	1018·1	53	SW	2	c	1013·7	-1	53	+8	WSW	3	*	bc	4	-	54	45				
	Paris	1000·2	48	SSW	3	r	998·3	-1	43	+4	SSW	3	-	o	*	3	52	39				
	Belfort	1006·9	39	WSW	6	o	1004·6	*	45	+20	WSW	8	*	o	*	3	45	28				
	Lyons	1014·6	43	S	3	o	1011·5	*	44	+14	S	2	*	o	*	-	47	33				
	Nice	1014·7	45	E	5	b	1015·9	+3	47	+4	SSW	6	*	bc	5	-	55	41				
	Perpignan ...	1017·9	54	-	0	b	1016·8	-2	43	-2	W	2		c	*	-	61	34				
	Sanguinaire ...	*	50	NW	4	o	*	*	49	....	NNE	3	*	m	4	-	54	41				
SOUTHERN STATIONS.	Corunna																					
	Madrid	1019·9	55	W	1	b	1023·1	+2	41	+7	-	o	-	c	*	-	57	34				
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira	1026·0	59	NE	3	o	1025·5	-2	52	-2	NE	2	-	bc	2	-	61	52				
	Gibraltar	1023·7	51	W	5	b	1023·3	*	48	+2	NW	4	*	b	2	-	62	45				
	Malta	*	*	*	*	*	1023·0	+2	54	-1	NW	4	-	b	3	-	64	52				
	Limassol	*	*	*	*	*	1015·4	+1	66	-6	-	0	-	o	?	-	80	54				
	Alexandria ...	1014·7	65	N	4	o	1016·7	+2	64	+2	NE	3	-	o	2	-	79	63				
	Cairo (Helwan) ...	1014·0	73	NNW	3	c	1013·7	+1	72	-8	N	2	NW	o	*	-	95	61				

UPPER AIR.
South Farnborough.
Pilot Balloon Ascent at 7.22

1800 m. W by S, 10 m/s
1500 m. W by S, 10 m/s
1200 m. W , 9 m/s
900 m. W , 10 m/s
600 m. W , 12 m/s
300 m. W by S, 9 m/s
Surface WSW, 5 m/s

GALES
Duration and Extreme Force in British Islands.

Deerness
N 8 : 29th at 24h.
Scilly
Squall, NW 8 :
30th. at 1h.

LONDON OBSERVATIONS.

	Humidity. 15 h. Yesterday. %	Humidity. 9 h. To-day. %	Sunshine for Yesterday. Hours.	24 Hours ended 9 h. To-Day. Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	57	79	3·1	52	34	29	1	o	or.o	c.bc.
CITY (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	55	74	2·7	50	35	31	2	b.opd.c	bc	bc.orh.b
CAMDEN SQ. (British Rainfall) ..	54	73	3·9	50	33	29	1	o	bc	*
HAMPSTEAD (Reservoir)	*	80	3·5	48	31	25	Trace	ep.bc	bcx	bcx
S. KENSINGTON (Museum Grounds)	*	78	2·6	50	35	29	2	o.c	c.o	c.bc
RICHMOND PARK	*	*		*	*	*	*	*	*	*

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

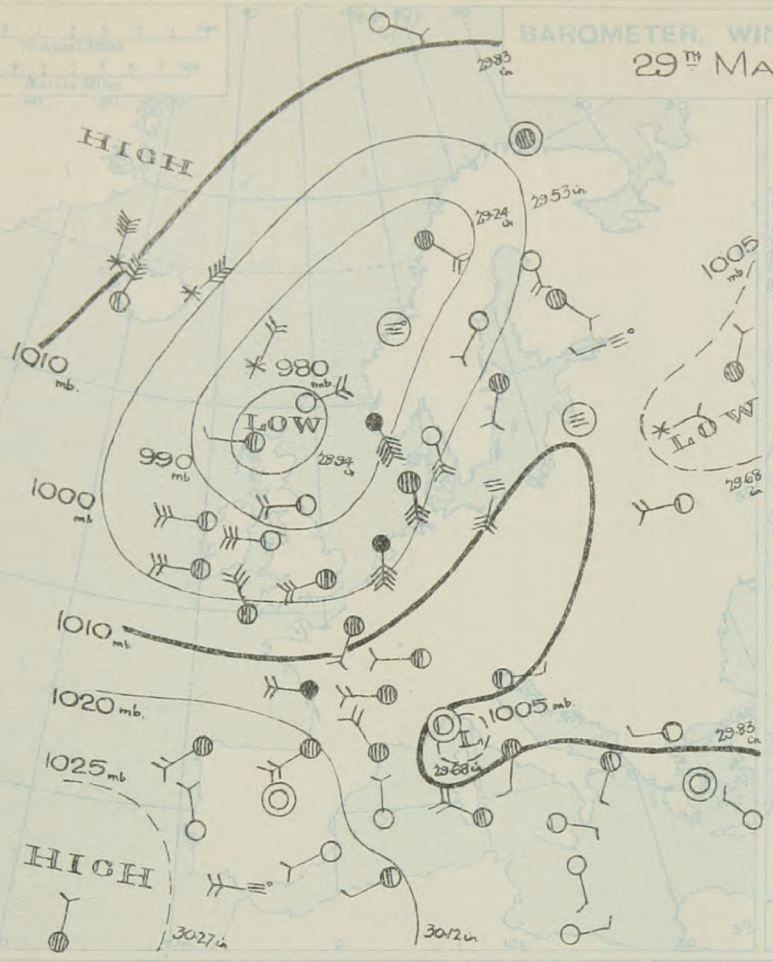
Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
786	17·2	61·5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

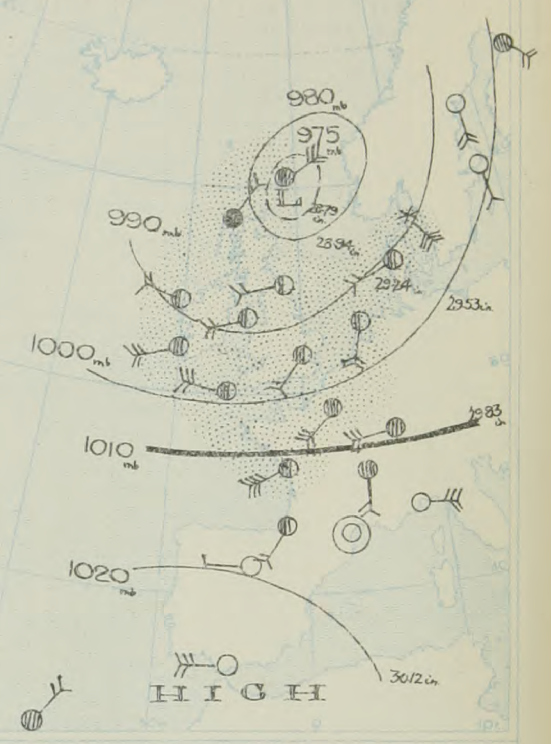
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR

29TH MARCH, 1917.



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 FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

NO WARNINGS ISSUED.

0a, 0b, 1 — North-Westerly to Northerly breeze, moderate or fresh; fair generally, local passing showers; temperature below the normal.

2a, 2b, 3, 4a, 4b, 4c, 5 — Westerly to North-Westerly breeze, light to moderate; fair generally, local passing showers; temperature below the normal.

6a, 6b — Same as Nos. 0 - 1.

7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b — Same as Nos. 2 -5.

Western Channel and Bay 11 — Westerly wind, fresh to strong; sea rather rough; fair, some showers; cold.

FURTHER OUTLOOK.

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

NAPIER SHAW, Director.

SYNOPTIC CHART FOR THE MORNING OF FRIDAY, 30TH MARCH, 1917.

GENERAL INFERENCE.

No indications of any important change.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

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

Barometer LOW
Barometer slowly rising
40° rising
Barometer
50° falling

2894 in.
2909 in.
2923 in.
2938 in.
2953 in.
2968 in.
2983
2997 in.
3012 in.
3027 in.

HIGH

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

Issue No. 20,217

DAILY WEATHER REPORT.

Friday 30th March 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rainfall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...														*	
	Gorki	1014·4	34	—	0	o	1003·4	?	30	0	E	2	h	—	*	28
	Velieki Luki ...	1007·0	23	NW	2	o		*							*	
	Hangö	1008·0	16	—	0	bc	1006·1	0	23	+16	SSW	2	o	—	*	5
	Riga						1009·5	0	10	−13	—	0	f	—	*	7
	Petrograd ...	1009·1	14	NW	1	b	1009·5	0	25	+20	W	1	m	—	25	5
	Moscow	1004·2	36	NE	2	o	1004·6	0	36	+8	NE	2	o	—	*	28
	Kiev	1003·5	36	WNW	3	o	1007·8	+3	30	+2	W	4	b	—	*	20
	Kharkov ...	999·4	37	—	0	f	1006·0	+6	36	−3	W	3	o	8	*	34
	Kishinev ...	1003·7	45	—	0	fo	1009·3	+3	37	−13	E	1	o	2	*	32
	Elisabetgrad ...	1002·3	7	ESE	3	c	1009·5	+3	36	−3	W	2	o	2	*	36
	Nicolaiev ...	1002·7	45	WNW	3	c	1010·9	*	36	−9	N	2	o	3	*	34
	Odessa	1004·0	48	NNE	3	o	1010·9	+3	36	−14	ENE	2	f	4	*	36
	Tarkhankout...	1005·3	46	WNW	4	b	1011·8	*	43		N	1	f	2	*	43
	Soukhoum ...	1007·7	72	ENE	2	o	1007·4	+2	73		ENE	7	o	—	*	70
MEDITERRANEAN.	Venice	1008·3	46	NE	1	c	1010·1	*	43	+2	ENE	1	bc	—	54	41
	Pesaro	1008·3	45	W	1	o	1009·3	*	41	−4	—	0	bc	1	52	37
	Rome	1009·7	46	E	1	o	1009·8	*	46	+5	SSW	1	o	17	52	41
	Viesti	1010·5	50	—	0	bc	1010·6	*	50	−8	NW	2	bc	—	58	46
	Brindisi	1010·9	54	SW	1	b	1012·6	*	50	−2	SW	1	c	—	64	48
	Cagliari	1009·9	57	WSW	5	r	1013·9	*	50	−2	NW	4	c	—	61	48
	Palermo	1013·3	54	S	1	b	1015·0	*	54	−1	ESE	1	b	1	63	43
	Tripoli						1014·6	*	61		E	1	b	—	66	48
	Algiers	1017·2	45	WSW	2	c	1021·0	+1	43	−2	WSW	1	c	6	54	+1
SWEDEN.	Hernösand ...	998·0	30	—	0	c	996·6	*	30	+5	E	2	b	*	*	*
	Stockholm ...	1004·1	30	S	2	o	1003·3	*	30	+7	SSW	2	o	*	*	*
	Wisby	1006·4	28	WSW	?	b	1004·2	*	34	+11	SW	2	o	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...	1014·0	10	−11	N	9	S
Reykjavik	1004·6	19	−11	N	8	bc
Vestmanna						
Seydisfjord	1000·6	21	−7	NE	9	S
Thorshavn	985·6	34	−2	NNE	4	S

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	8	1	44	35	ro	bcp	3·5
	Banff	3	2	44	35	c.bc	me.pr	2·1
	Montrose	1	—	50	35	b.	o.	1·2
	Carnoustie	*	*					
	St. Andrews...							
Eng. N.E.	Harrogate	5	—	43	38	bc.c.b	b.	8·7
	Skegness	Trace	—	48	37	bc.	bc	7·6
Eng. N.W.	Morecambe	5	1	42	38	—	—	8·5
	Southport	Trace	Trace	46	38	bc.c.bc	bc.chc	8·0
Midlands.	Leamington Spa							
	Malvern	4	—	46	37	bc.	bc	6·0
	Ross-on-Wye	1	1	48	37	bcp	b.bcp	7·2
Wales.	Rhyl	6	—	46	38	or. o	bc.c.bc	2·8
	Colwyn Bay...	*	*	46	38	dc	cps	8·0
	Llandudno	*	*	48	38	b.	b.	8·1
	Aberystwyth	*	*	43	38	or.c	c.c.o	6·5
	Tenby							

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F.			Hr.
England. E.	Lowestoft	3	—	50	37	c. bc	c	7·4
	Felixstowe	1	Trace	49	33	bc. cq	bc. cq	4·6
	Walton-on-Naze	Trace	2	48	38	b.bx bc	bc.ber	6·1
	Southend-on-Sea	—	Trace	48	37	o. c	o.c. bcp	3·4
England, S.E.	Margate	—	—	48	38	c.	c.	1·7
	Ramsgate							
	Hastings	2	—	45	40	or. o	o	0·0
	Eastbourne	3	—	45	39	og.	og.	0·0
	Seaford	*	*	43	40	o.	o.	0·0
	Brighton	1	—	43	36	o	o	0·1
	Worthing	Trace	—	44	40	o.	o	0·3
	Littlehampton							
	Bognor	*	*	43	41	g	g	0·5
	Bournemouth	1	—	45	40	o	o	0·0
England. S.W.	Weymouth...	*	*	45	41	c·o	o. bcx.	0·0
	Torquay	2	4	51	42	op.	o.c.be.bp	0·2
	Paignton	*	*					
	Penzance	5	3	46	40	or.c	c	0·3
	Newquay	5	1	45	39	p.	op.b	1·5
	Bude	3	1	47	40	og	bc	2·4
	Ilfracombe	2	—	46	39	og	bc	4·1
	Weston-s-Mare	2	2	46	39	p.bch.	bc.b.bc	4·4

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

30th & 31st March 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·34	11·58	6·21
	5·32	11·57	6·22
Greenwich	5·43	12·5	6·27
	5·40	12·4	6·28
Wick	5·48	12·17	6·45
	5·45	12·16	6·48
Valencia	6·24	12·46	7·8
	6·21	12·45	7·9

NOTES ON YESTERDAY'S WEATHER.

Temperature was below the normal in all districts, and cold showers were general. Sunshine was very variable, from none in some places to 9·7 hours at Nottingham.

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

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‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 90 {Saturday, 31st MARCH.

	STATIONS.	YESTERDAY EVENING					THIS MORNING.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc	Wind. Force 0–12	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	986·5	34	NNE	9	qs	993·0	0	30	-8	N	6	–	qps	6	4	43	30	c.oq	oqrs	oqsp	*
	Deerness (Orkney)	988·1	35	N	7	oq	997·3	*	32	-7	NW	5	W	bcx	4	–	42	31	bc.eqps	oqps	o.c.bcx	4·1
	Stornoway ...	996·8	35	N	7	bcq	1002·3	+4	31	-6	N	5	–	eq	5	–	42	30	bcq	bcq	bc.o.cq	7·0
	Castlebay (Barra Isd.)	997·7	40	N	4	c	1000·9	+1	31	-7	NE	5	–	o	5	1	44	30	c.bc	chp.c	cs	3·6
	Glasgow ...	993·0	40	NNE	2	bc	1000·5	+4	30	-4	ENE	1	W	bc	*	Trace	46	29	c	c.bc	bc.bzx	4·7
	Eskdalemuir ...	992·1	38	N	2	c	1000	+3	28	-5	N	3	W	ox	*	–	45	26	o.c.bc	c	bc.b.c	6.6
	Malin Head ...	993·0	40	NNE	4	bc	999·8	+2	36	-2	ENE	2	NE	bc	3	–	43	34	bcm	bc	bc	6·9
	Blacksod Point	994·5	39	NNW	3	c	1000·3	+4	35	-3	ENE	4	–	omph	3	2	44	34	bc	cp	bc.oph	*
	Valencia ...	994·0	40	NNE	3	c	998·4	+3	32	-8	NE	2	–	bcx	3	6	43	30	bc	bcphs	c.bcx	3·2
	Roche's Point	993·0	42	NW	2	c	997·4	*	35	-2	NW	2	–	b	2	0·1	46	35	cp	c	c.bx	*
	Birr Castle ...	993·8	40	NNW	1	c	998·5	*	34	+2	N	1	–	o	*	0·4	48	30	cph	c	bcx.o	9·1
	Donaghadee ...	992·7	43	NNW	2	bc	999·3	+3	36	0	E	2	–	cm	2	–	46	35	bc	bc	bcm	*
	Liverpool (Bidston)	992·1	37	WSW	3	o	996·8	+2	35	-2	NE	4	–	s	3	1	42	34	cp	cp	os	0·8
	Holyhead ...	992·4	41	W	4	c	996·4	+1	38	0	ENE	5	–	cm	4	1	43	37	bc.c.op	op.cp.c	op.c.o	2·2
	Pembroke (St Ann's)	994·8	42	WSW	4	bc	996·2	+3	35	-5	–	0	N	bcx	2	–	43	32	c.bc	bc	b.bx	9·5
	Scilly (St. Mary's)	996·6	40	W	7	cqph	995·9	+2	40	-2	NNW	5	N	cqph	6	6	47	38	cqph	cqph	cqph	3·6
	Falmouth ...	996·9	41	SW	5	cpqh	994·2	+2	36	-1	WNW	3	–	cph	*	8	47	33	cqph	c.bph.c	cph	4·4
	Jersey (St. Aubin)	999·8	44	WSW	4	bc	997·1	*	42	+2	SW	4	SW	c	3	3	46	36	oqp.bc	bc.c.bc	bc	5·2
	Portland Bill ...	996·0	38	W	3	bcp	993·0	+2	40	0	W	3	W	bc	3	9	43	38	bc	bcp	bcp	*
	Dungeness ...	995·5	41	WSW	4	bc	996·7	-2	40	+1	SW	5	SW	c	4	1	45	38	bcp	bc	cpq.cb	*
	Dover	996·6	40	SW	5	b	997·3	-4	38	0	S	5	SW	r	2	2	40	35	bpsh	ops.bc	rq	6·8
	Wick	990·6	36	N	7	o	998·1	+2	32	-6	N	5	NW	c	5	3	42	30	bcmph	ompqh	ompqc	*
	Nairn	993·4	37	N	5	cgq	1000·0	*	31	*	N	2	–	bc	2	1	43	29	cqph	bcqph	cq.bc	5·0
	Aberdeen	989·9	38	NW	6	bq	998·7	+2	32	-7	WNW	4	W	b	3	0·3	44	31	o.bcqp	bcqp	bcqsp	5·6
	Leith	992·2	42	N	3	o	999·2	+2	33	-2	NNW	2	N	bc	3	–	45	33	c.bc.b	c.b.bc	c.b.bc	*
	Tynemouth ...	990·9	44	N	2	cm	998·4	+2	36	-1	N	2	–	cm	5	1	44	33	omp	cm	cm	*
	Spurn Head ...	992·1	37	N	3	op	996·9	+1	37	+3	NE	1	–	o	3	3	45	33	cq	op	op	0·0
	Yarmouth ...	992·3	42	NNW	2	bc	996·8	+1	33	-1	SW	2	–	bcm	2	1	50	32	bc	bcm	bcm	6·7
	Clacton-on-Sea	993·9	46	W	3	bc	997·1	0	38	+2	SSW	3	–	r	2	–	50	34	bc	bc	bc.og	9·5
	Nottingham ...	992·4	43	W	4	b	996·6	*	36	+4	E	3	E	c	*	0·1	48	32	bc.c	bc	bc.op	5·9
	Benson (Oxon.) ...	994·2	43	WSW	3	b	994·5	-1	34	0	E	1	–	od	*	1	48	30	c.bc	bc	bc.os	*
	Sth Farnborough	994·9	41	WSW	4	c	994·6	-1	33	-2	NE	2	–	osm	*	8	50	32	bc	bc.phc	c.b.osm	8·5
	London (Kew Obsy.)	995·1	43	SW	4	c	995·2	-2	34	-2	E	3	–	oms	*	6	49	33	bm.c.bcv	cv.bc.c	bc.oms	9·6
NORTHERN EUROPE.	Spitsbergen ...	1015·9	-45	S	2	b	1016·8	+3	-45	-4	SSE	3	*	b	*	*	-27	-53				
	Vardö	996·7	30	S	1	o	994·9	0	30	+2	S	1	–		2	*	32	10				
	Bodö	980·3	36	SE	2	c	983·7	-1	32	-7	E	4	–	b	2	–	39	30				
	Christiansund ...	984·3	36	W	3	o	985·9	+2	34	-2	NW	3	–	s	4	1	41	32				
	Skudesnaes ...	978·0	37	SE	6	o	981·0	+4	34	-3	N	4	–	o	4	?	41	32				
	Færder (X'tania Fjord)	987·3	34	SSE	4	m	983·8	0	32	-2	SE	1	–	m	4	3	34	30				
	The Scaw (Skagen)	987·0	36	SSE	3	o	983·4	-3	34	-2	S	4	–	s	4	1	36	34				
	Blaavands Huk	989·1	36	SW	3	b	990·4	+2	36	+2	W	6	–	c	5	Trace	39	34				
	Copenhagen ...	990·6	36	SW	1	m	992·3	+2	36	+2	SW	3	–	o	*	3	36	34				
	Bornholm ...	992·0	34	SW	5	m	994·4	+2	32	-2	SW	6	–	m	1	2	36	30				
FRANCE, &c.	The Helder ...	992·7	39	SW	3	b	998·6	+1	37	0	–	0	–	o	1	1	41	37				
	C. Gris Nez ...	991·9	41	WSW	6	c	997·3	-1	38	-1	S	4	*	o	4	6	43	37				
	La Hève	991·4	37	WSW	5	r	999·3	*	37	0	SW	5	*	o	5	6	39	37				
	Brest (St. Mathieu)	1001·5	44	W	6	bc	998·3	0	43	0	W	6	*	c	5	4	50	41				
	Rochefort (Ile d'Aix)	1007·9	47	WSW	6	c	1006·3	0	47	0	W	5	*	bc	*	9	52	43				
	Biarritz	1011·8	53	N	3	c	1011·1	0	50	-3	W	3	*	o	5	–	59	48				
	Paris	1001·6	43	SW	3	b	1003·1	0	39	-4	SSW	3	–	o	*	1	54	36				
	Belfort	1005·7	40	WSW	7	r	1009·3	*	39	-6	W	4	*	o	*	6	46	36				
	Lyons	1008·6	53	SSW	3	o	1010·1	*	44	0	S	1	*	o	*	1	55	39				
	Nice	1015·4	48	WSW	6	c	1014·4	+1	46	-1	SW	1	*	r	5	–	57	41				
	Perpignan ...	1012·8	52	E	1	c	1011·7	-2	41	-2	W	1	SW	b	*	–	63	37				
	Sanguinaire ...	*					*	*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1017·0	59	W	3	b	1018·3	-1	45	-4	SE	3	–	c	*	–	61	41				
	Lisbon																					
	Azores (Horta) ...	1017·7	*	SE	5	c	1013·0	-1	57	0	SE	5	*	r	3	–	64	59				
	Madeira	1023·8	59	NE	2	o	1021·5	-3	64	+2	N	2	–	bc	2	–	61	54				
	Gibraltar	1023·0	54	NW	5	m	1021·0	*	52	+4	NW	4	*	m	4	–	64	47				
	Malta	*	*	*	*	*	1022·9	+1	54	0	–	0	–	b	0	–	59	50				
	Limassol	*	*	*	*	*	1014·6	0	64	-2	–	0	–	o	3	–	79	55				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

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

GALES
Duration and Extreme Force in British Islands.

Lerwick
NNE 9 : 30th 18h to 31st 2h.

Aberdeen
Gust 23 m/s : 30th at 15h.

NOTE
South Farnborough
30 mm. snow lying at 7h.

LONDON OBSERVATIONS.	Humidity. 15 h. Yesterday.	Humidity. 9 h. To-day.	Sunshine for Yesterday.	24 Hours ended 9 h. To-Day. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	49	97	8·1	52	32	27	1	b	b	o,s,rs
CITY (Bunhill Row)	*	*	7·1	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	51	95	7·7	51	34	30	9	bcs.bc	bc	bc.bos
CAMDEN SQ. (British Rainfall) ...	47	100	8·2	52	33	29	8	b	b	*
HAMPSTEAD (Reservoir)	*	96	7·4	48	31	24	8	bc	bx	osxf
S. KENSINGTON (Museum Grounds)	*	97	6.6	53	?40	28	11	bc	b.bc	bc.ors
RICHMOND PARK	*	*		*	*	*	*	*	*	*

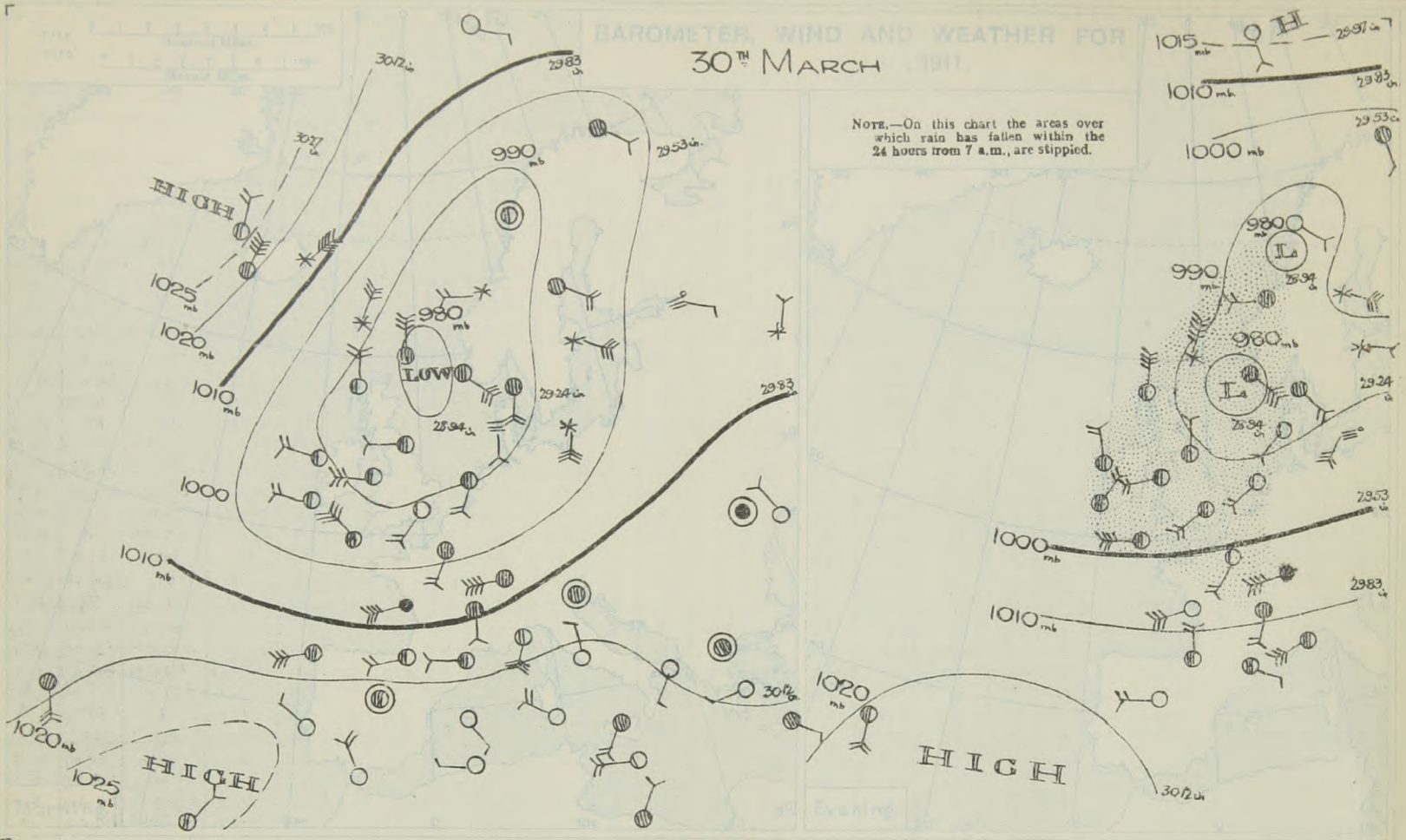
SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
1054	23	76.5

Temperatures at Greenwich and Camden Square are from Glaisher screens.

* 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 FROM 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.		
North Cone.		

NO WARNINGS ISSUED.

Wind between North-East and North-West, light to moderate; changeable, some cold showers; temperature below the normal.

Southerly to Westerly fresh to strong wind, veering Northerly and moderating; some cold showers, fairer later; temperature below the normal

Same as Nos. 0 - 4.

Same as No. 5.

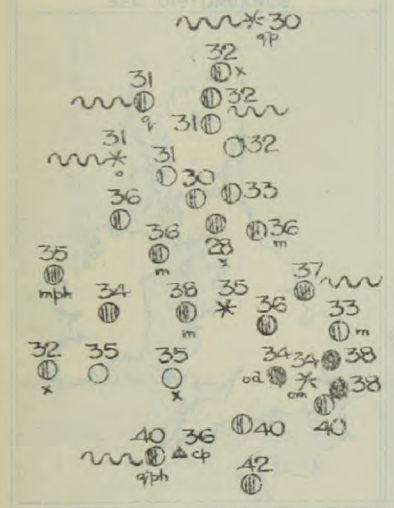
Same as Nos. 0 - 4.

West and North-West wind, strong to moderate; sea rough; changeable, some cold showers.

SYNOPTIC CHART FOR THE MORNING OF SATURDAY, 31ST MARCH, 1917.

GENERAL INFERENCE.

A Northerly ty of conditions is likely to becomgeneral.



EXPLANATION

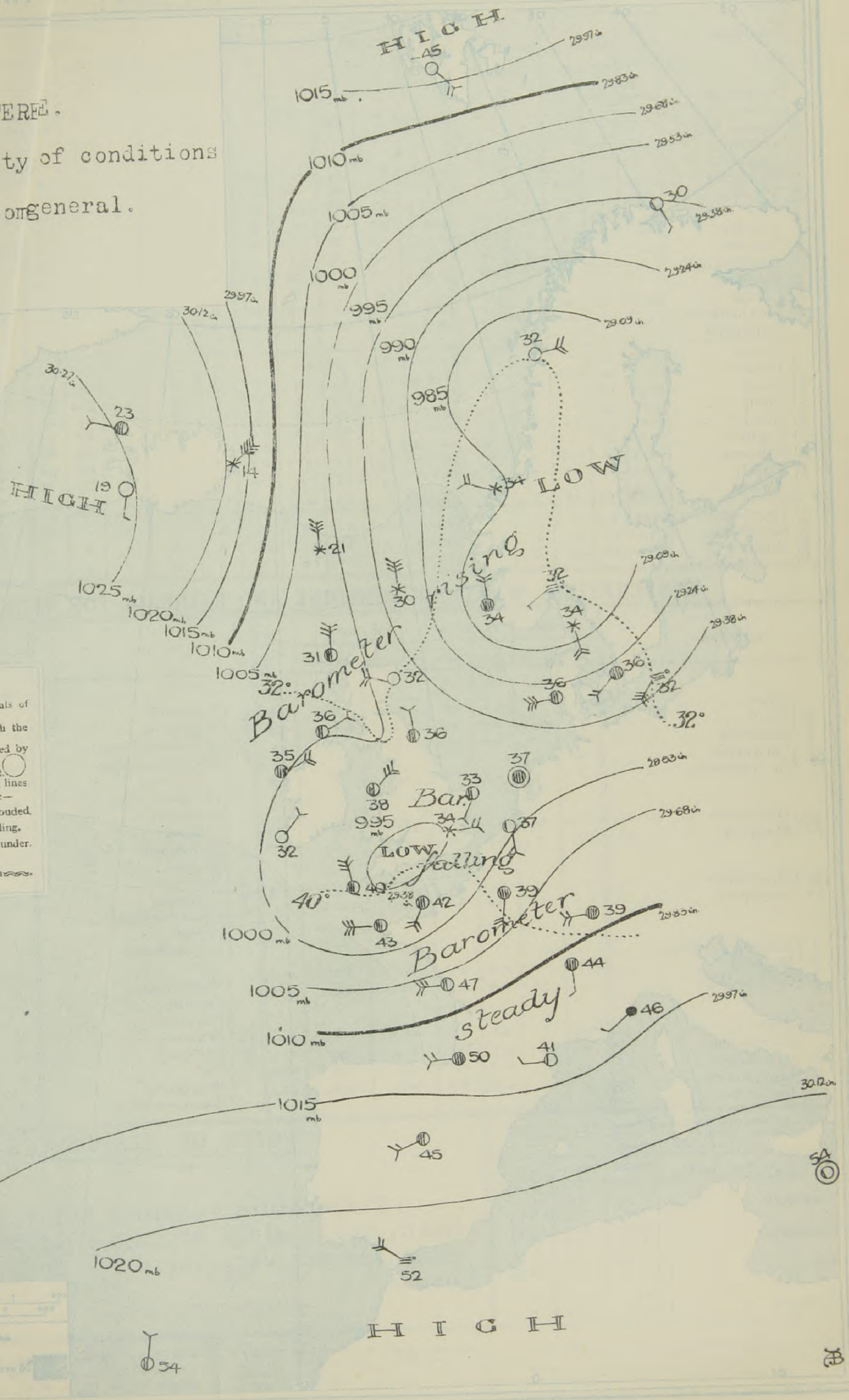
BAROMETER.—Isobars are drawn intervals of five millibars.

WIND.—Direction is shown by arrowing with the wind.
Force, on the scale 0–15 indicated by the number of feathers. Calm ◯

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈



Issue No. 20,218

DAILY WEATHER REPORT.

Saturday, 31st MARCH, 1917.

REPORTS FOR YESTERDAY.

	STATIONS.	Previous Evening. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	Morning. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Past 24 Hours. Rain fall. Millimetres.	Temp. Max.	Min.
			°F.					‡	°F.	°F.					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel ...	1009·0	14	E	2	c									*	
	Gorki						1009·3	?	28	−2	—	0	0	—	*	28
	Velieki Luki ...							*							*	
	Hangö	1005·3	27	—	0	b									*	
	Riga						1006·6	−1	19	+9	SSE	1	0	—	*	10
	Petrograd ...	1009·1	1	SSE	1	0	991·5	0	9	−16	SE	1	m	—	28	1
	Moscow	1007·0	36	N	2	r	1008·6	+2	32	−4	NNE	2	s	3	*	30
	Kiev	1011·9	32	W	3	0	1013·7	+2	30	0	W	2	0	—	*	28
	Kharkov ...	1012·6	34	W	2	0	1013·5	+2	32	−4	W	1	0	—	*	30
	Kishinev ...	1010·7	45	NE	1	0	1014·1	+4	36	−1	—	0	r	2	*	34
	Elisabetgrad ...	1012·7	37	W	2	0	1014·3	+2	32	−4	NNW	1	c	—	*	30
	Nicolaiev ...							*							*	
	Odessa	1012·2	41	ENE	1	½	1014·1	+3	41	+5	NW	2	0	—	*	36
	Tarkhankout ...	1011·5	45	N	2	0	1015·4	*	41	−2	N	h	r	5	*	41
	Soukhoum ...														*	
MEDITERRANEAN.	Venice	1014·1	48	—	0	b	1015·4	*	45	+2	—	0	0	—	52	43
	Pesaro	1015·5	41	WSW	1	b	1017·3	*	50	+4	S	2	bc	—	52	39
	Rome	1017·0	46	—	0	b	1021·9	*	43	−3	N	1	b	4	54	36
	Viesti	1015·5	50	—	0	b	1020·1	*	52	+2	W	1	b	2	55	46
	Brindisi	1015·4	50	SE	1	b	1019·0	*	48	−2	SW	1	b	—	55	46
	Cagliari	1018·1	54	—	0	0	1023·3	*	52	+2	NW	3	b	—	59	48
	Palermo	1017·9	52	SSE	2	0	1023·4	*	55	+1	SSW	3	0	2	63	46
	Tripoli	1015·9	57	N	2	b	1021·1	*	57	−4	NE	2	0	0	79	57
	Algiers	1023·5	48	W	1	b	1023·7	+1	52	+9	W	1	½	—	59	43
SWEDEN.	Hernösand ...	995·8	34	S	4	b	994·1	*	30	0	SE	4	c	*	*	*
	Stockholm ...	997·2	32	S	2	b	994·3	*	32	+2	SE	6	s	*	*	*
	Wisby	1001·3	32	WSW	2	b	993·6	*	34	0	S	2	0	*	*	*

ICELAND.	Morning. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	F			
Isafjord ...	1026·3	12	+2	N	3	bc
Reykjavik	1020·7	14	−5	NNE	9	c
Vestmanna						
Seydisfjord	1014·3	10	−11	NE	9	s
Thorshavn	993·5	30	−4	NNE	6	s

Hours of Observation G.M.T.

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

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

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	F.	F			Hr.
Scotland.	Oban	1	—	48	32	c.	bc	2·9
	Banff	9	Trace	43	35	c.bc	bcp.rq	5·5
	Montrose	—	—	46	35	b	b	1·0
	Carnoustie	*	*					
	St. Andrews	2	—	47	34	b.	c.	2·8
Eng. N.E.	Harrogate	Trace	6	41	32	bc.cro	or.s	2·3
	Skegness	—	—	46	30	bc.	c.	4·4
Eng. N.W.	Morecambe	—	1	43	38	—	—	2·7
	Southport	1	1	42	35	or hco	or.c.bc	1·0
Midlands.	Leamington Spa							
	Malvern	Trace	—	48	32	bc	bc	10·0
	Ross-on-Wye	—	—	49	33	b.	bcd.	7·2
Wales.	Rhyl	Trace	3	42	35	bc.c	c.bc	1·0
	Colwyn Bay	*	*	47	36	c.o	cpr	0·2
	Llandudno	*	*	43	37	cr.	cr	0·5
	Aberystwyth	*	*	43	35	cr.b	b.bc	10·5
	Tenby							

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine
		Mm.	Mm.	°F.	°F.			Hr.
England. E.	Lowestoft	—	Trace	49	33	bc.c	c.op.ds	6·4
	Felixstowe	—	—	49	39	bc	bc	8·8
	Walton-on-Naze							
	Southend-on-Sea	—	—	49	35	b.bc.c	b.bc.c	7·1
England. S.E.	Margate	—	—	44	35	b.bc.c	bc.b	7·9
	Ramsgate							
	Hastings	1	1	47	36	or b	b.bc	7·4
	Eastbourne	Trace	—	46	38	b.bc	b.bc	7·1
	Seaford	*	*	44	39	r.bc	bc	7·1
	Brighton	1	Trace	45	38	c	c	6·1
	Worthing	2	Trace	47	35	bc	ber.bc	6·1
	Littlehampton							
	Bognor	*	*					
	Bournemouth	1	—	49	35	c	c	6·1
England. S.W.	Weymouth	*	*	48	39	bcp	bcp	4·1
	Torquay	1	5	46	36	c.bch	ch.	4·1
	Paignton	*	*					
	Penzance	5	1	47	37	cpr.bc	bc.o	5·1
	Newquay	3	1	45	37	bph	bph	5·1
	Bude	1	3	47	37	bph	bph	6·1
	Ilfracombe	—	—	46	38	bc.c	bc.	7·1
	Weston-s-Mare	2	—	46	37	bc.b	b.	8·1

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

31st March & 1st April 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·32	11·57	6·22
	5·30	11·57	6·24
Greenwich	5·40	12·4	6·28
	5·38	12·4	6·30
Wick	5·45	12·16	6·48
	5·42	12·16	6·50
Valencia	6·21	12·45	7·9
	6·19	12·45	7·11

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below the normal generally. Rain, hail, sleet or snow fell in all districts. Sunshine was very variable, from none to about ten hours.

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

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‡ The barometric change is expressed in half-millibars.

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