METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER 1915.

MAP SHOWING THE POSITIONS OF THE METEOROLOGICAL STATIONS

THE OBSERVATIONS FROM WHICH ARE USED IN THE PREPARATION OF THE DAILY WEATHER REPORT.

The names of the Stations which report by telegraph to the Meteorological Office are printed in capitals.

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
CHRISTIANSUND
HERNÖSAND
Petrograd
Thorshavn
Helsingfors
Hango
STOCKHOLM
Moscow
LERWICK
KARLSTAD
FAERDER
DEERNESS
SKUDESNAES
WISBY
Riga
STORNOWAY
WICK
SKAGEN
Memel
CASTLEBAY
NAIRN
ABERDEEN
Copenhagen
MALIN HEAD
GLASGOW
LEITH
BLAAVAND'S HUK
Neu-Fahrwasser
FESKDALE
TYNEMOUTH
BLACKSOD POINT
DONAGHADEE
Cuxhaven
Swinemünde
Warsaw
Kieff
Kharkoff
HOLYHEAD
SPURN HEAD
Groningen
Berlin
BIRR CASTLE
LIVERPOOL
THE HELDER
YARMOUTH
Breslau
Cracow
Lemberg
Nicolaieff
VALENCIA
NOTTINGHAM
Utrecht
Cassel
PEMBROKE
ROCHES PT.
BATH
KEWS
CLACTON
Flushing
Odessa
S. FARNBORO'
DUNGENESS
DOVER
Brussels
Frankfurt
Prague
PORTLAND BILL
C. GRIS NEZ
SCILLY
FALMOUTH
LA HEVE
Carlsruhe
Munich
Vienna
Buda Pesth
Hermannstadt
JERSEY
PARIS
BREST
Le Mans
BELFORT
Bucharest
Lugano
Trieste
ROCHEFORT
Limoges
LYONS
Turin
Pesaro
Lesina
SANTA CRUZ
Angra
NICE
Leghorn
Florence
HORTA
CORUNNA
Bilbao
BIARRITZ
Toulouse
C. Sicié
PERPIGNAN
ROME
Brindisi
PT DELGADA
OPORTO
Barcelona
SANGUINAIRE
Naples
PATRAS
ATHENS
MADRID
LISBON
Palma
Cagliari
CANDIA
Palermo
Alicante
Cape De Gardo
Algiers
Tunis
MALTA
San Fernando
Malaga
GIBRALTAR
Sétif
Oran
Biskra
Sfax
Nemours
MADEIRA
Laghouat

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

WYMAN & SONS LTD. M.O. PRESS, LONDON, S.W.

DAILY WEATHER REPORT. APPENDIX I.

NORMAL VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE.

THIRD QUARTER, JULY TO SEPTEMBER.

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

	STATIONS.	PRESSURE. 1906-1910.	AIR TEMPERATURE.								RAINFALL. 1876-1910.		BRIGHT SUNSHINE. 1881-1910.	
			Means of				Absolute Extremes.							
			1906-1910.		1876-1910.		1876-1910.							
							Maximum.		Minimum.					
		7 a.m. Observations (reduced to M.S. Level and to Lat. 45°).	Dry Bulb 7 a.m.	Wet Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	Days with Rain.	Total Fall.	Average Duration.	Per Centage of Possible Duration.
		In.	°F	°F	°F	°F	°F		°F			In.	Hr.	%
JULY.	Sumburgh Head	29·862	50·5	49·0	57·0	48·0	70	1897	37	1888	18	2·32	—	—
	Stornoway	29·897	52·5	50·7	60·1	48·9	76	1894	32	1888	20	2·93	144	27
	Castlebay (Barra Isd.)	[29·874]††	[53·9]††	[51·9]††	[58·3]††	[51·3]††	[71]††	[1908]††	[47]††	[1910]††	[19]††	[2·95]††	[161]††	[31]††
	Malin Head	29·903	54·1	53·1	[60·6]‡	[52·4]‡	[75]‡	[1887]‡	[42]‡	[1888, 02]‡	[19]‡	[2·88]‡	—	—
	Blacksod Point	29·955	56·3	54·5	[62·3]‡	[53·4]‡	[80]‡	[1894]‡	[42]‡	[1898]‡	[22]‡	[3·14]‡	—	—
	Valencia	30·012	56·8	54·8	63·9	53·7	80	1878	40	1907	20	3·61	156	32
	Roche's Point	30·014	56·5	54·9	65·2	53·8	84	1876	43	1907	15	2·88	—	—
	Birr Castle	29·983	56·8	52·1	66·2	51·7	89	1876	37	1889	17	2·99	142	28
	Donaghadee	29·953	54·1	52·5	63·3	51·8	81	1876	40	1883, 02	17	2·91	—	—
	Liverpool (Observatory)	29·971	56·1	53·4	65·6	54·2	88	1901	44	1877	15	2·69	[186]††	[37]††
	Holyhead	29·969	56·7	54·9	63·3	53·6	85	1901	43	1888	16	2·71	—	—
	Pembroke (St. Ann's Hd.)	29·993	55·6	54·4	62·3	54·7	80	1878	43	1910	15	2·47	209	42
	Scilly (St. Mary's)	30·146	57·6	55·5	64·7	56·4	75	1886, 01, 02	47	1910	16	2·24	218	45
	Jersey (St. Aubin's)	30·056	59·3	57·0	68·3	56·3	87	1900, 01	44	1907, 09	13	2·01	247	51
	Portland Bill	30·010	57·5	55·8	64·7	55·9	[79]‡	[1901]‡	[49]‡	[1900, 07]‡	11	1·75	—	—
	Dungeness	29·988	58·0	56·0	66·5	55·4	82	1900	40	1890	12	1·88	—	—
	Dover	[29·963]††	[58·0]††	[55·7]††	[64·7]††	[52·8]††	[74]††	[1908]††	[46]††	[1908, 09, 10]††	[15]††	[2·61]††	[180]††	[37]††
	Wick	29·885	52·2	50·3	61·1	48·4	81	1876	30	1886	18	2·66	—	—
	Nairn	29·892	53·0	50·7	64·2	49·4	86	1876	36	1906	17	2·67	[135]••	[26]••
	Aberdeen	29 909	54·5	51·9	63·1	50·3	86	1876	38	1898, 03	17	2·79	160	30
	Leith	29·915	55·4	52·3	66·0	51·3	90	1876	41	1887, 8, 92, 03	17	2·73	—	—
	North Shields	29·931	55·5	52·9	64·2	55·1	85	1876	39	1909	15	2·56	—	—
	Spurn Head	29·944	56·4	54·3	64·9	54·6	[84]•	[1881, 1900]•	[44]•	[1882]•	13	1·82	—	—
	Yarmouth	29·959	57·1	54·6	66·0	54·6	87	1881	42	1890	14	2·44	[177]††	[36]††
	Clacton-on-Sea	29·988	58·0	55·5	67·7	54·6	[82]§	[1905]§	[40]§	[1902]§	10	1·80	[202]¶	[41]¶
	Nottingham	29·974	56·7	54·4	70·1	52·1	92	1876	37	1888	15	2·39	[190]‖	[38]‖
	Bath	30·019	58·5	55·4	69·4	53·4	[91]†	[1876]†	[39]†	[1906]†	13	2·53	204	41
	Oxford	29·987	58·3	54·8	70 0	53·5	90	1876, 00	41	1888	14	2·47	201	41
	LONDON { Westminster	29·990	57·8	55·1	[69·7]¶	[54·8]¶	[83]¶	[1908]¶	[45]¶	[1907]¶	[14]¶	[1·99]¶	179	36
	LONDON { Kew	30·009	57·7	54·8	70·8	54·3	90	1881	43	1882, 84	13	2·30	204	41
AUGUST.	Sumburgh Head	29·786	51·5	49·9	57·2	48·3	82	1910	38	1885, 95, 09	20	3·11	—	—
	Stornoway	29·838	52·9	51·3	60·0	49·0	75	1897, 99	33	1888	22	3·86	132	28
	Castlebay (Barra Isd.)	[29·872]††	[54·2]††	[52·5]††	[58·5]††	[51·5]††	[68]††	[1910]††	[47]††	[1908, 09]††	[20]††	[4·07]††	[139]††	[30]††
	Malin Head	29·856	54·8	54·0	[61·0]‡	[52·9]‡	[80]‡	[1900]‡	[43]‡	[1891]‡	[22]‡	[3·69]‡	—	—
	Blacksod Point	29·907	57·0	55·1	[62·0]‡	[53·5]‡	[78]‡	[1899]‡	[42]‡	[1887, 88]‡	[23]‡	[4·84]‡	—	—
	Valencia	29·976	57·5	56·5	64·2	53·9	81	1899	42	1890	23	5·09	152	34
	Roche's Point	29·985	56·6	55·5	64·9	53·8	80	1880	44	1883, 03, 01	17	4·01	—	—
	Birr Castle	29·949	56·5	54·9	65·6	51·2	82	1893, 99, 00	35	1885, 87	18	3·85	142	32
	Donaghadee	29·912	54·6	53·3	63·1	52·0	78	1899	38	1886	19	3·27	—	—
	Liverpool (Observatory)	29·941	56·7	54·2	65·1	54·0	85	1876, 84, 93, 99	44	1885	17	3·16	[161]††	[36]††
	Holyhead	29·941	57·3	55·7	63·4	54·1	83	1893	45	1888	17	3·39	—	—
	Pembroke (St. Ann's Hd.)	29·971	57·0	55·8	62·8	55·3	78	1899	47	1885, 88	16	3·27	193	43
	Scilly (St. Mary's)	30·126	58·7	56·9	65·0	56·9	75	1893, 99	50	1885. 90. 95	17	2·68	224	51
	Jersey (St. Aubin's)	30·057	61·2	58·5	68·8	57·2	89	1893	45	1890, 09	15	2·43	242	55
	Portland Bill	30·003	59·3	57·5	65·5	56·8	[78]‡	[1901]‡	[49]‡	[1904, 10]‡	13	2·00	—	—
	Dungeness	29·992	59·6	57·6	67·2	56·0	82	1904	39	1890	13	2·13	—	—
	Dover	[29·993]††	[59·3]††	[56·9]††	[66·4]††	[53·8]††	[83]††	[1909]††	[46]††	[1908]††	[15]††	[2·49]††	[220]††	[50]††
	Wick	29·827	52·4	50·9	61·1	48·2	85	1893	30	1886	20	2·75	—	—
	Nairn	29·836	52·7	51·0	63·7	49·1	86	1899	33	1885, 91, 04	19	2·59	[132]••	[28]••
	Aberdeen	29·860	54·5	52·4	62·7	49·9	81	1880, 82, 99, 06	33	1885	18	2·95	152	33
	Leith	29·866	55·4	52·9	65·6	51·1	85	1893, 1906	38	1881, 92	17	2·95	—	—
	North Shields	29·898	55·6	53·4	64·1	51·2	83	1893	39	1892, 02	16	2·84	—	—
	Spurn Head	29·927	57·2	55·3	64·9	54·6	[87]•	[1893]•	[45]•	[1909]•	15	2·13	—	—
	Yarmouth	29·957	58·0	55·6	66·2	54·4	85	1893	41	1902	15	2·51	[206]††	[46]††
	Clacton-on-Sea	29·987	58·9	56·4	67·6	55·0	[84]§	[1909]§	[43]§	[1908]§	13	1·90	[211]¶	[47]¶
	Nottingham	29·957	56·3	54·7	68·7	51·4	94	1876	37	1876, 08	17	2·62	[181]‖	[40]‖
	Bath	30·006	58·0	55·6	68·9	52·5	[92]†	[1876]†	[40]†	[1877, 04]†	14	3·00	196	44
	Oxford	30·008	58·9	55·8	68·9	52·7	90	1876, 06	39	1892	14	2·47	187	42
	LONDON { Westminster	29·991	58·2	56·2	[69·7]¶	[54·7]¶	[91]¶	[1906]¶	[46]¶	[1905, 07]¶	[13]¶	[1·80]¶	172	39
	LONDON { Kew	30·006	57·9	55·5	69·6	53·6	92	1876	41	1890	14	2·36	191	43
SEPTEMBER.	Sumburgh Head	30·000	49·0	47·8	54·8	46·3	69	1898	34	1887, 88	20	3·18	—	—
	Stornoway	30·037	50·7	49·1	57·5	46·2	77	1906	32	1885	21	3·96	115	30
	Castlebay (Barra Isd.)	[30·041]††	[52·4]††	[50·5]††	[56·8]††	[49·9]††	[63]††	[1910]††	[44]††	[1908, 09, 10]††	[16]††	[3·17]††	[129]††	[34]††
	Malin Head	30·059	52·8	52·2	[58·8]‡	[50·7]‡	[84]‡	[1906]‡	[38]‡	[1886]‡	[18]‡	[2·76]‡	—	—
	Blacksod Point	30·090	55·0	53·2	[60·0]‡	[51·2]‡	[78]‡	[1898]‡	[39]‡	[1899]‡	[20]‡	[4·08]‡	—	—
	Valencia	30·114	53·6	51·7	61·8	51·3	79	1898, 06	35	1899	19	4·09	132	35
	Roche's Point	30·127	54·1	53·1	61·8	51·3	74	1880	39	1893	15	3·11	—	—
	Birr Castle	30·114	52·4	51·0	61·9	47·2	80	1906	29	1899	15	2·53	125	33
	Donaghadee	30·107	52·0	51·0	60·2	49·3	75	1906	36	1882, 94, 99, 09	16	2·62	—	—
	Liverpool (Observatory)	30·120	53·0	50·7	61·3	50·8	87	1906	39	1885	15	2·55	[114]††	[30]††
	Holyhead	30·109	54·9	53·1	60·8	51·9	78	1880	42	1903, 07	16	2·80	—	—
	Pembroke (St. Ann's Hd.)	30·109	54·3	53·0	60·6	52·9	74	1895	40	1885	15	2·81	150	40
	Scilly (St. Mary's)	30·223	56·3	54·7	62·3	54·8	73	1899	44	1885, 88	16	2·57	170	46
	Jersey (St. Aubin's)	30·132	57·3	54·9	65·8	54·7	89	1906	41	1891	15	2·67	184	49
	Portland Bill	30·112	56·4	54·9	63·0	53·8	[71]‡	[1906]‡	[43]‡	[1902, 03, 10]‡	14	2·06	—	—
	Dungeness	30·100	55·9	53·8	64·0	52·4	81	1906	32	1885	14	1·79	—	—
	Dover	[30·089]††	[54·7]††	[53·1]††	[62·8]††	[50·4]††	[75]††	[1908]††	[39]††	[1908]††	[13]††	[1·63]††	[173]††	[46]††
	Wick	30·022	49·9	48·3	58·2	45·8	78	1898	29	1885, 87, 07	19	2·52	—	—
	Nairn	30·042	49·1	47·6	60·3	45·3	84	1906	25	1892	17	2·11	[120]••	[32]••
	Aberdeen	30·071	50·6	49·0	59·4	46·6	82	1906	30	1887	17	2·38	125	33
	Leith	30·074	51·4	49·5	62·1	47·6	83	1898	33	1886, 1905	14	1·84	—	—
	North Shields	30·096	51·3	49·6	60·7	47·9	88	1906	34	1885, 89, 93, 07	14	1·75	—	—
	Spurn Head	30·094	53·7	52·0	61·2	51·9	[79]•	[1899]•	[38]•	[1892, 09]•	12	1·61	—	—
	Yarmouth	30·098	54·3	52·4	62·2	51·4	78	1880, 98	33	1885	14	2·13	[138]††	[37]††
	Clacton-on-Sea	30·113	55·0	53·0	63·2	51·4	[79] §	[1906]§	[38] §	[1904]§	10	1·65	[173]¶	[46]¶
	Nottingham	30·120	51·1	49·9	64·0	47·5	94	1906	30	1887	15	1·92	[118]‖	[31]‖
	Bath	30·143	52·5	50·8	64·7	48·3	[88]†	[1906]†	[34]†	[1906]†	12	2·32	138	37
	Oxford	30·150	53·0	50·0	64·4	48·5	92	1906	33	1886	12	1·93	144	38
	LONDON { Westminster	30·120	53·5	51·9	[64·9]¶	[50·4]¶	[91]¶	[1906]¶	[39]¶	[1906]¶	[11]¶	[1·27]¶	118	32
	LONDON { Kew	30·134	52·2	50·5	64·7	49·3	92	1906	33	1887	13	1·97	141	38

• Results for 30 years, 1881-1910.
† " 26 " 1876-1884 and 1899-1910.
‡ " 25 " 1886-1910.
At Birr Castle and Oxford the averages are for 8 a.m.

‡ Results for 11 years, 1900-1910.
§ " 10 " 1901-1910.
‖ " 7 " 1904-1910.

¶ Results for 6 years, 1905-1910.
•• " 4 years, 1907-1910.
†† " 3 " 1908-1910.

METEOROLOGICAL OFFICE,
South Kensington, London, S.W.
August, 1911.

(21004—24.) Wt 40665—7402. 4000. 8/11. D & S.

Malin (Funchal)	10	1	10	11	3	6	1020·8	0	64	-2	N	3	—	6	3	—	72	63	

* 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. No. 182. Thursday 1st July 1915.

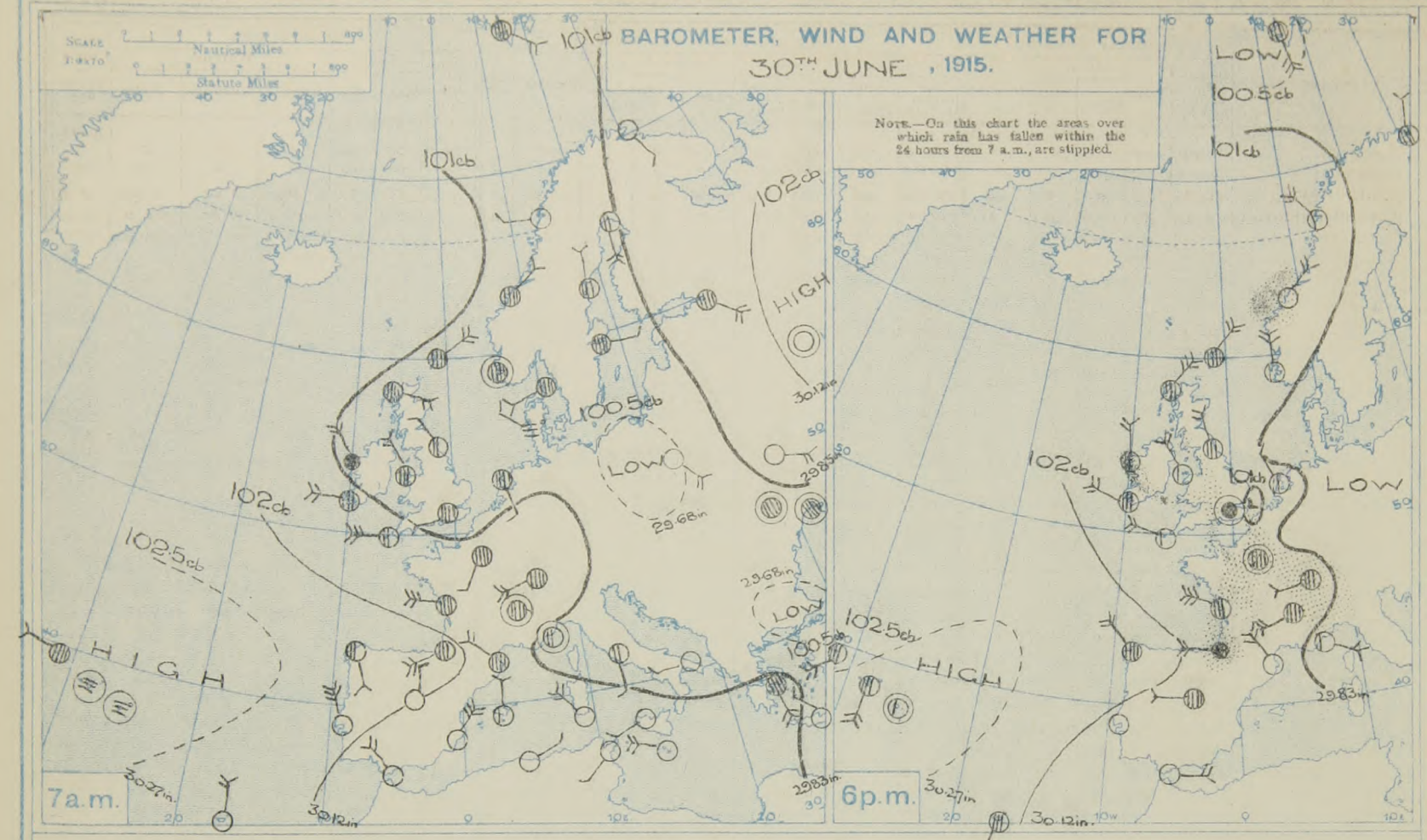
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1014·6	49	NE	4	o	1018·6	+1	48	0	NE	2	-	o	2	-	51	46	om	o	o	*
	Deerness ...	1014·2	50	NE	3	o	1018·3	*	48	0	E	3	-	o	2	-	52	46	o	o	o	0·0
	Stornoway ...	1013·6	55	NE	5	cg	1017·4	+2	52	+1	NNE	4	-	og	3	-	56	51	og	o cg	c.og	8·1
	Castlebay (Barra Isd.)	1012·9	57	NW	4	bc	1018·8	+2	53	-1	W	2	W	o	2	-	59	51	o.c.o	o.bc	bc.o	4·0
	Glasgow ...	1012·5	56	E	2	oc	1018·3	+3	53	0	W	2	-	o	*	1	66	51	o.c.bog	bc. tl.o	poc.om	5·0
	Eskdalemuir ...	1012·3	58	NNE	1	oc	1018·0	+2	54	-1	-	0	W	o	*	19	64	49	om tlr	tlr, oc	oc og	1·3
	Malin Head ...	1013·8	55	NNW	2	om	1018·4	+4	55	-2	NW	4	-	og	3	-	62	53	c.om	cm	og	3·3
	Blacksod Point	1014·9	58	N	3	bog	1020·4	+3	55	+1	SSW	2	SW	bc	2	1	60	51	omp	bog	eg bc	*
	Valencia ...	1017·1	61	WNW	4	c	1022·1	+2	57	0	NW	1	W	bc	4	-	62	52	bc	bc	c o c	12·2
	Roche's Point	1015·9	64	NNW	4	b	1022·3	*	56	-1	NNW	2	NW	bc	2	2	68	53	p. o.c	c.bc b	b.bc	*
	Birr Castle ...	1015·2	63	NW	3	c	1021·1	*	55	-1	NW	2	-	c	*	1	67	50	cp	cp	c	5·2
	Donaghadee ...	1012·4	55	N	3	bcm	1018·6	+4	54	+1	NNE	1	-	ogm	1	-	60	51	bm	bcm	c mogm	*
	Liverpool (Bidston)	1011·8	55	W	2	o	1018·7	+2	55	-3	W	3	W	o	2	-	69	53	b	om	c o	4·3
	Holyhead ...	1012·5	60	NW	3	bg	1019·2	+2	55	0	N	1	-	cm	o	-	62	53	c bc b	bg	b.bc c.o.	9·9
	Pembroke (St. Ann's)	1014·2	58	WNW	2	b	1019·8	+2	55	+1	WNW	3	NW	cgm	3	1	61	53	cp	bc	b	6·8
	Scilly (St. Mary's)	1014·9	60	WNW	4	b	1021·3	+3	57	+1	WNW	3	W	b	4	-	63	54	b	b	b	14·2
	Falmouth ...	1014·5	61	NW	5	bc	1021·0	+4	61	+2	NW	3	-	bcw	2	-	64	55	bcg	bc. bg	bc b	10·3
	Jersey (St. Aubin)	1013·9	60	W	5	b	1019·8	*	60	+1	W	3	-	b	3	1	63	55	b	c. bc	ogpo	12·0
	Portland Bill ...	1011·1	56	NW	4	c	1018·5	+3	60	+3	NNW	1	-	b	2	0·2	60	55	c	cp	c.bc b	*
	Dungeness ...	1009·6	59	SW	4	bc	1017·5	+3	56	-2	NNW	2	-	o	2	-	64	51	bc	bc	bcw f.o	*
	Dover	1011·1	60	SW	2	c	1017·8	+4	55	-6	NNW	3	-	odm	2	1	65	53	bc.c.b	b.bc.cp	c.op.mo	6·4
	Wick	1013·9	50	NE	2	o	1017·9	+2	49	-1	ENE	2	-	o	2	-	52	48	om	om	om	*
	Nairn	1013·3	55	E	2	bc	1017·1	*	54	+1	-	0	-	cg	1	-	58	47	cg	c.bc	bc.c	0·0
	Aberdeen ...	1013·4	56	E	1	o	1017·9	+2	54	0	NE	1	-	o	2	-	58	52	o	o c.o	o.c o	0·0
	Leith	1012·2	58	NE	2	b	1017·7	+2	55	0	WNW	1	-	o	*	-	62	50	o.c	b	b.bc.c	*
	Tynemouth ...	1011·1	57	NNW	3	om	1017·6	+3	55	-2	NNW	1	-	om	2	-	63	52	bcm	bcm	om	*
	Spurn Head ...	1011·9	57	ESE	1	f	1018·3	+3	58	+3	NNE	2	-	om	3	-	61	53	bcm	f	om	2·3
	Yarmouth ...	1010·0	60	E	2	bcm	1017·9	+6	55	-3	WNW	3	-	om	2	-	64	54	om bcm	om bcm	om	5·4
	Clacton-on-Sea	1009·4	63	NW	3	cgg	1017·6	+5	55	-5	NW	2	-	ogm	1	-	69	53	cu. t	cgg	o ogm	4·6
	Nottingham ...	1011·0	59	W	1	c	1018·6	*	56	-1	NE	1	NE	dm	*	3	68	50	c o tlr	r. tl mc	c om	2·1
	Bath	1011·1	58	W	1	o	1018·8	*	58	0	W	1	-	m	*	9	64	49	op	otlr	omc bc	0·5
	Sth Farnborough	1010·0	60	NE	1	c	1018·1	+4	54	-4	NW	2	-	m	*	-	72	49	o c	bcp c	b. bc o	5·2
	London (Kew Obsy.)	1010·1	61	-	0	dcm	1018·5	+3	55	-3	NNW	1	-	om	*	1	70	50	o.bc o bc	c.t. aulm	dm c om	2·0
NORTHERN EUROPE.	Spitsbergen ...	1004·3	36	S	5	o	1008·7	+5	36	-8	-	0	*	o	*	*	36	32				
	Vardö	1009·5	45	NNE	3	c	1013·7	+3	52	+6	SE	2	-	x	3	*	45	36				
	Bodö	1011·9	46	NW	4	b	1015·0	0	46	-3	W	1	-	m	1	-	48	43				
	Christiansund	1013·9	50	NE	2	c	1016·4	+2	48	+2	NE	2	-	o	3	7	50	46				
	Skudesnaes ..	1010·6	55	N	4	b	1014·3	+1	52	-5	N	3	-	o	2	-	59	48				
	Færder (X'ianla Fjord)	1008·2	61	SSW	2	b	1012·3	+3	61	+2	E	1	S	c	1	-	63	57				
	The Scaw (Skagen)	1010·3	57	W	3	bc	1012·7	+3	55	-2	WSW	2	-	o	3	-	63	50				
	Blaavands Huk																					
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1009·9	61	NW	2	bc	1015·0	+3	68	+2	ENE	2	-	c	2	10	63	57				
	C. Gris Nez ...	1010·1	59	SW	5	bc	1017·1	+5	55	-2	NNE	3	*	f	2	1	63	54				
	La Hève	1015·0	60	NW	3	c	1017·7	*	59	0	NW	3	*	f	4	-	64	54				
	Ushant	1018·3	60	NW	3	b	1021·7	*	57	-2	NNW	4	*	b	3	-	64	52				
	Brest (St. Mathieu)	1017·1	63	WNW	4	bc	1022·3	+3	59	-2	NW	3	*	bc	2	-	63	57				
	Rochefort (Ile d'Aix)	1016·4	63	WNW	6	c	1021·0	+4	59	-4	NNW	5	*	bc	*	6	68	55				
	Biarritz	1019·7	64	W	4	x	1021·9	+3	64	+1	N	1	*	bc	3	18	68	59				
	Paris	1012·2	61	ENE	1	o	1017·9	+3	57	0	-	0	-	o	*	23	64	48				
	Belfort	1014·4	57	W	2	c	1016·7	*	59	+4	W	3	*	c	*	4	65	50				
	Lyons	1015·3	59	WSW	3	o	1017·2	*	54	-5	NW	3	*	o	*	10	70	51				
	Nice	1006·6	71	SE	2	b	1007·4	+1	55	-13	-	0	*	x	3	10	?	50				
	Perpignan ...	1015·9	70	NW	4	o	1017·5	+3	66	0	NW	4	N	c	*	-	79	59				
	Sanguinaire ...	?	68	NW	6	m	?	*	64	-3	NW	6	*	m	2	-	75	68				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·5	66	NW	4	o	1024·3	+3	64	+1	NE	5	-	bc	2	1	70	61				
	Madrid (8 a.m.)	1014·9	81	W	2	b	1019·5	+3	66	+2	NNE	1	NW	bc	*	-	84	63				
	Lisbon (9 a.m.)																					
	Gibraltar	1016·2	71	E	3	b	1015·6	*	64	-4	E	3	*	f	2	-	81	62				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1015·4	0	73	0	NW	3	-	b	2	-	81	70				
	Azores (Horta, 8 a.m.)	1026·0	*	S	4	c							*									
	Madeira (Funchal)	1020·3	73	SSW	2	c	1019·9	0	68	0	NE	3	-	b	3	-	75	64				

RAINFALL.

Equivalents of Millimetres in Inches.

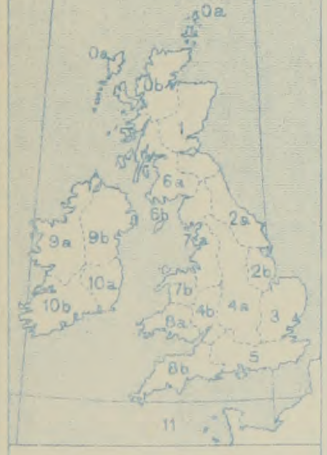
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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



FORECAST FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 (a, b) Light breezes, chiefly North-Easterly; cool,

1 cloudy, misty in places.

2 (a, b), 3, 4 (a, b), 5, 6 (a, b), 7 (a, b) Light North-Westerly breezes; cool, cloudy and misty at first, improving later, temperature rising.

8 (a, b) Light North-Westerly winds; fine generally; becoming warmer.

9 (a, b), 10 (a, b) Light North-Westerly to Westerly winds; fine generally; becoming warmer.

11 Moderate North-Westerly to Westerly winds, and a slight sea; fine generally, but misty in places, becoming warmer.

FURTHER OUTLOOK.

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

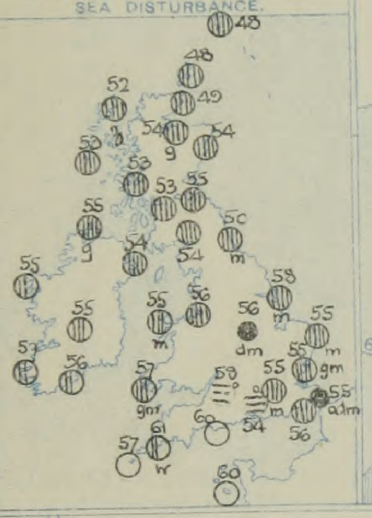
Millibars Inches
1050 31
1040
1030
1020 30
1010
1000
990
980 29
970

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 1ST JULY, 1915.

GENERAL INFERENCE.

The Atlantic high pressure system will continue to extend, and fair weather is therefore likely to prevail over the United Kingdom generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

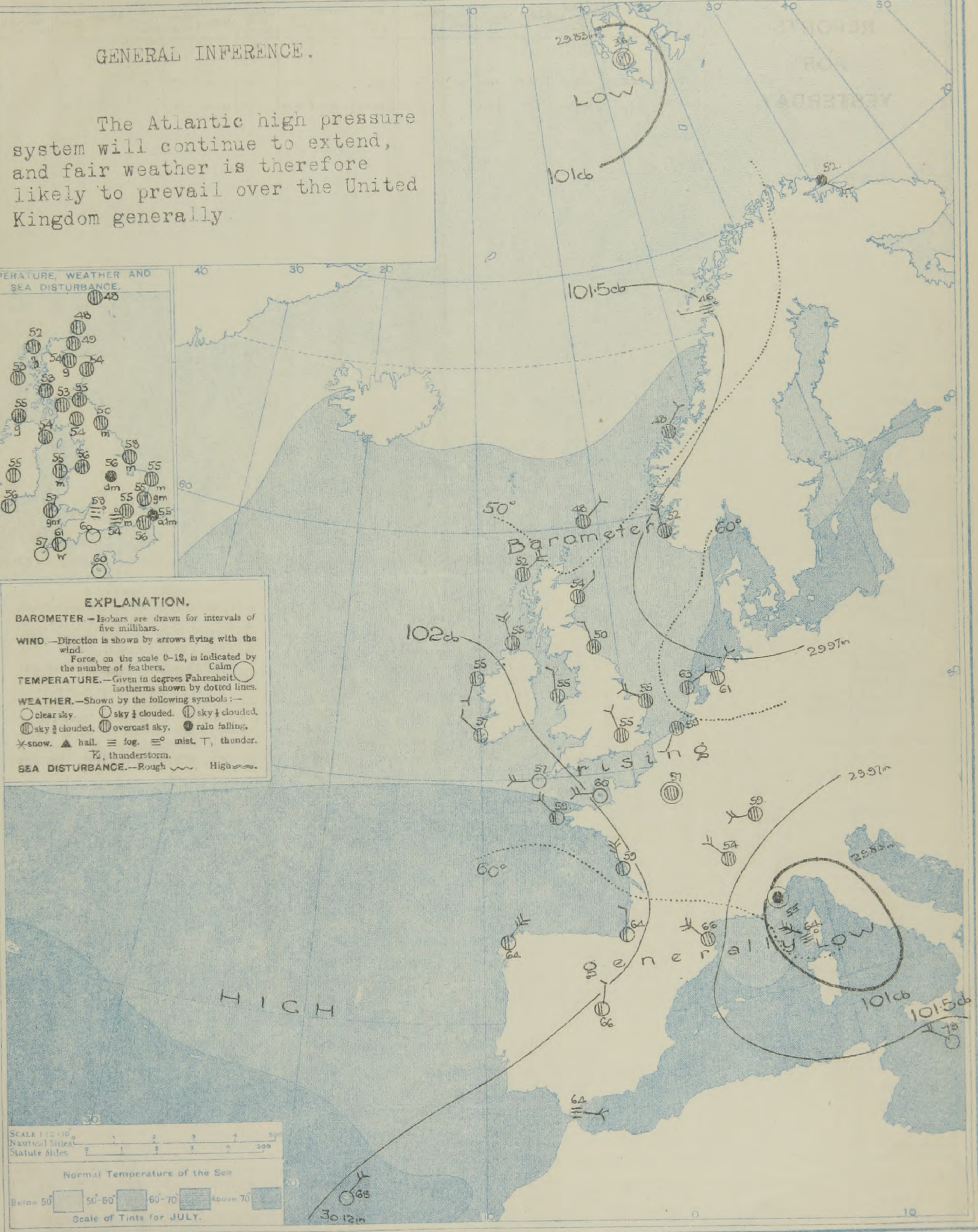
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 ≈≈.

Millibars Inches
1080 — 31
1040
1035
1000 — 30
995
990 — 29
980



DAILY WEATHER REPORT. Thursday, 1st July 1915.

REPORTS FOR YESTERDAY.

30th June

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.						°F.	°F.								
Petrograd	1015·5	63	NW	2	bc	1014·7	-2	59	+5	SE	4	W	0	*	-	68	54
Lisbon	1019·4	73	NNW	5	b	1020·3	+1	64	-2	NNW	6	-	b	5	-	79	63

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0·3	60	50	0 b	bc. c	6·0
	Banff	-	55	51	0 c	bc c	1·7
	Carnoustie	-	61	48	c	b	7·9
	St. Andrews	-	58	46	*	*	7·9
Engl. N.E.	Harrogate	12·0	69	51	cdc	Tbc tkr	4·9
	Skegness	-	62	53	0 bc	bc oz	5·9
Engl. N.W.	Morecambe	-	67	55	bc b	bc	3·3
	Blackpool	20	65	55	cd c	cd c	6·5
	Southport	-	63	55	oc bcb	c o c	5·7
Midlands.	Buxton		61	51	bor	or tkr	0·6
	Leamington Spa	12	67	55	ct bth	c tr c	3·5
	Malvern	13	67	54	bc	bc. c	5·0
	Ross-on-Wye	6	71	50	obcp	bcz	3·6
Wales.	Rhyl	-	57	54	bc	q	3·8
	Colwyn Bay	-	64	54	bc	b	6·6
	Llandudno	-	66	55			4·6
	Aberystwyth	4	63	56	or c	cbc	5·0
	Tenby	26	57	53	bc	b	4·0
Engl. E.	Cromer	2	65	48	f pf	c bem	5·1
	Lowestoft	-	64	56	c oc	coct	2·0
	Felixstowe	0·3	67	55	omtl	om	1·2
	Walton-on-Naze	0·3	65	55	betp	bc	2·2
	Southend-on-Sea	4	72	56	o bc	tbc	3·7
England. S.E.	Tunbridge Wells	7/8	67	52	ocplr	c bd c	3·0
	Margate	6/8	64	54	c, tkr	bc. c	4·4
	Ramsgate	-	69	54	cpt	bcp	7·9
	Hastings	-	65	54	boc	bc	4·3
	Bexhill-on-Sea	-	65	55	c	c	3·0
	Eastbourne	-	63	56	omb	o bc b. o	2·0
	Seaford	0·3	62	56	c	bc	2·5
	Brighton	-	65	56	c	bec	3·0
	Worthing	1	66	54	or	bc	3·7
	Littlehampton	2	?	57	o	bo	3·9
	Bognor	3	65	56	or c	bc	3·4
	Southsea	7	66	57	cr	c	2·2
	Bournemouth	14	63	55	or	or	1·5
England. S.W.	Weymouth	2	67	56	bcc	cpc	3·7
	Torquay	11	64	56	o c	o c bc	2·3
	Paignton						
	Falmouth	-	64	55	bcq	bcbq	9·0
	Penzance	-	65	55	bc b	b	11·5
	Newquay	2	60	55	or. o	o bcbm	3·0
	Ilfracombe	10	60	54	or c	c b c b	2·5
	Weston-super-Mare	31	61	55	o bc	o t r	0·1

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	81	91	0·8	73	52	42	3	o. c	o rtkr	0
City (Bunhill Row)	*	*	2·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	87	2·7	69	51	48	-	ost	ost o pm	0
Camden Sq. (Brit. Rainfall)	88	89	2·3	73	52	48	3	o c	c tkr o	*
Hampstead (Reservoir)	*	89	2·7	69	49	36	3	cp	om	0
Richmond Park	*	*	2·7							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	66	84	2·6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1192 Joules	20·1 Milliwatts.	85 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	2	68	53	51	o c	c b. p	p c b	*
Darwen to 9 p.m.	2	68	53	53	bc ogw	gw	or b t	27
Manchester ,,				*				
Birmingham ,,	1	62	52	38	*	o tkr	o c	0·0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	2	66	58	55	bcp	cp	cp bc	4·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	0·3	71	56	54	c	c o. c	a t p	*

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

1st and 2nd July. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 35 / 3 36	11·56 / 11·57	8·17 / 8·17
Greenwich	3·48 / 3·49	12·3 / 12·4	8·18 / 8·18
Wick	3·11 / 3·12	12·15 / 12·16	9·19 / 9·19
Valencia	4·26 / 4·27	12·44 / 12·45	9·2 / 9·3

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 65° and 70° in many districts, and reached 72° at South Farnborough and Southend-on-Sea. Thunderstorms occurred in several parts of England, and also in the south of Scotland; at Buxton the accompanying rainfall amounted to as much as 66 mm.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 183 { Friday 2nd July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1022·1	49	NE	2	0	1021·3	−1	49	+1	SE	2	-	0	2	-	51	45	0	0	0	*
	Deerness ...	1021·3	50	ESE	3	0	1018·9	*	50	+2	ESE	5	-	0	4	-	51	49	0	0	0	0·0
	Stornoway ...	1020·4	57	SE	2	cg	1014·2	−6	51	−1	SE	3	-	orm	3	3	62	46	cg. c	cg	b. orm	8·0
	Castlebay (Barra Isd.)	1020·8	57	S	3	c	1011·7	−6	55	+2	SSE	5	-	r	5	16	60	52	bc. o. bc	bc	c. or	8·1
	Glasgow ...	1021·2	60	WNW	3	c	1018·4	−4	52	−1	ESE	2	-	orm	*	2	65	50	orn c	c	bc. b. or	5·6
	Eskdalemuir ...	1020·8	62	WNW	1	c	1020·6	−2	52	−2	SSE	4	.	or	*	3	63	48	cg. c	c. cg. c	bc. c or	2·2
	Malin Head ...	1021·4	58	E	1	b	1013·4	−5	58	+3	S	4	.	orn/p	4	13	62	54	bc	bc	orn	6·8
	Blacksod Point	1020·2	59	S	4	bc	1015·7	+3	58	+3	S	6	w	orng	4	6	62	53	bcr	bcr	orng. r. orn	*
	Valencia ...	1023·6	61	SSE	3	0	1019·8	0	61	+4	S	2	-	m	4	6	65	57	cr	or	mkd	5·6
	Roche's Point	1021·9	64	SW	1	b	1022·2	*	60	+4	SW	4	-	r	4	2	67	56	bc	bc. b	b. od	*
	Birr Castle ...	1021·8	64	SW	1	c	1018·9	*	62	+7	WSW	2	-	0	*	7	70	55	c	c	c. or. o	6·4
	Donaghadee ...	1021·7	57	ESE	2	c	1017·0	−2	54	0	S	4	5	ornr	3	11	60	53	ogm	cgm	cg. ornr	*
	Liverpool (Bidston)	1023·1	60	WNW	2	b	1022·7	−2	54	−1	ESE	2	5	ogr	2	-	61	52	bc	bc	b. o	6·7
	Holyhead ...	1023·5	61	SW	3	bg	1020·9	−3	55	0	S	5	.	orf	4	3	65	54	c. o. bcc	c bc. bg	b. bc. or	6·0
	Pembroke (St. Ann's)	1024·7	56	WNW	1	b	1023·9	−1	56	+1	SW	4	.	odm	4	Trace	63	54	cgm	bc	b	12·0
	Scilly (St. Mary's)	1025·4	62	W	2	b	1025·8	−1	58	+1	SW	3	w	orn	4	-	64	54	b	b	bcm	14·3
	Falmouth ...	1024·9	62	WNW	2	b	1026·2	0	59	−2	SW	3	-	ow	1	-	66	52	b. bc	bc. b	b. bcc	13·5
	Jersey (St. Aubin)	1024·3	64	WNW	3	b	1027·4	*	59	−1	W	3	-	bc	2	-	66	54	b	b	b	14·6
	Portland Bill ...	1022·0	60	W	1	b	1025·6	+1	57	−3	WNW	3	-	b	3	-	62	55	bc	bc. b	b	*
	Dungeness ...	1022·6	58	SE	1	0	1025·4	+1	56	0	SE	2	-	fc	2	-	62	54	c. c. o	o. c. o	o. f. fc	*
	Dover	1023·2	57	SSW	1	0	1025·4	+1	55	0	SSW	2	-	orn	3	-	61	52	mo	o	orn	0·0
	Wick	1021·1	50	E	2	0	1018·0	−3	51	+2	SE	3	-	f	3	0·2	?	?	orn	orn	ornfo	*
	Nairn	1020·3	57	-	0	cg	1017·4	*	51	−3	-	0	-	rcg	0	0·3	59	43	cg	cg. bc	bc crn	1·1
	Aberdeen ...	1020·9	55	SE	2	0	1019·0	−2	55	+1	WSW	1	-	orn	1	Trace	57	48	o	og	o. c. orn	0·0
	Leith	1020·0	68	WSW	3	bc	1019·0	+1	54	−1	ESE	1	-	r	*	1	69	52	og. c	c. bc	b. bc	*
	Tynemouth ...	1020·7	57	SE	2	cmpt	1022·0	0	56	+1	W	1	-	ornr	2	1	63	54	c	cmpt	orn	*
	Spurn Head ...	1022·5	60	SSE	3	0	1023·8	?	57	−1	WSW	3	-	bc	3	-	66	51	orn.	orn	orn	2·2
	Yarmouth ...	1022·5	60	NNE	2	orn	1024·8	0	59	+4	SW	2	-	crn	1	-	61	58	orn	orn	c	1·0
	Clacton-on-Sea	1022·0	63	WNW	1	cg	1025·0	0	60	+5	SW	2	-	cg	2	-	64	55	og	og. cg	orn. cg	0·0
	Nottingham ...	1021·8	67	WNW	3	c	1024·5	*	56	0	W	1	SW	crn	*	Trace	70	49	ofm	orne	c. b	5·1
	Bath	1022·1	69	W	1	b	1025·0	*	60	+2	W	1	W	bc	*	-	72	52	mc. bc	bc c. b	b. bc	10·6
	Sth Farnborough	1021·2	68	-	0	b	1024·3	+1	59	+5	W	1	-	bg	*	13	70	49	o. bcg	bc. bg	bg. obg	5·8
	London (Kew Obsy.)	1021·7	69	-	0	bg	1025·0	0	56	+1	WSW	1	-	f	*	Trace	69	54	orn orn	orn bcg bg	bg. orn c	4·7
NORTHERN EUROPE.	Spitsbergen ...	1015·3	37	SE	4	0	1017·1	0	37	+1	NNE	2	*	0	*	*	39	34				
	Vardö	1018·3	43	N	4	0	1021·1	0	45	−7	NNW	5	-	0	4	*	52	43				
	Bodö	1021·6	45	W	2	bc	1023·9	0	46	0	NW	2	-	b	2	-	48	43				
	Christiansund	1021·6	48	NNE	2	c	1021·6	0	48	0	NE	2	-	0	3	-	50	46				
	Skudesnaes ...	1017·9	50	N	7	b	1020·4	+1	50	−2	NNW	6	-	c	2	-	54	50				
	Færder (X'ianiaFjord)	1014·0	61	SW	3	b	1017·7	+2	55	−6	S	1	-	0	1	-	63	54				
	The Scaw (Skagen)	1015·7	55	WSW	3	0	1017·1	0	55	0	SSW	2	-	0	2	-	61	50				
	Blaavands Huk	1019·0	57	NW	3	0	1022·4	+2	54	−3	NW	3	-	0	3	-	61	50				
	Haparanda ...	1013·0	64	-	0	0	1017·0	+1	55	0	N	2	-	0	*	-	66	55				
	Hernösand ...	1014·0	68	-	0	b	1018·4	0	61	+4	N	2	-	b	*	-	70	52				
	Stockholm ...	1013·5	66	S	2	0	1016·6	+1	66	−2	E	2	-	0	*	-	73	55				
	Wisby	1014·0	63	NE	2	c	1016·8	+1	59	0	NNE	2	-	bc	*	-	63	54				
	Karlstad	1013·2	72	-	0	b	1016·8	+1	63	+2	S	2	-	b	*	-	77	52				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1024·3	63	NNW	2	b	1025·0	+1	59	−4	WSW	1	-	0	1	Trace	66	57				
	C. Gris Nez ...	1022·1	59	NNE	1	0	1025·0	0	60	+5	S	3	*	m	2	-	63	54				
	La Hève	1022·9	61	NW	1	0	1025·3	*	59	0	W	2	*	m	2	-	64	52				
	Ushant	1027·5	61	NNW	2	b	1027·5	*	59	+2	SW	2	*	c	3	-	72	50				
	Brest (St. Mathieu)	1027·4	62	NNW	2	b	1028·8	0	60	+1	SW	1	*	b	2	-	68	57				
	Rochefort (I'e d'Aix)	1024·7	64	WNW	6	c	1027·3	0	63	+4	NE	2	*	b	*	-	66	57				
	Biarritz	1021·1	64	NNW	3	b	1027·1	0	63	−1	NE	1	*	b	2	-	70	59				
	Paris	1021·7	66	N	2	b	1026·6	0	57	0	-	0	-	0	*	-	72	52				
	Belfort	1020·3	64	-	0	0	1025·2	*	59	0	WSW	2	*	m	*	-	72	54				
	Lyons	1021·1	61	NNW	2	0	1024·6	*	61	+7	NNW	2	0	bc	*	1	67	54				
	Nice	1011·3	63	-	0	c	1011·9	0	70	+15	-	0	*	b	2	Trace	73	55				
	Perpignan ...	1019·4	68	WNW	5	b	1022·6	−1	68	+2	WNW	5	NW	b	*	-	75	63				
	Sanguinaire ...	?	66	NW	4	m	?	*	68	+4	E	2	*	bc	5	-	70	61				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1025·1	68	NNE	6	b	1024·6	0	68	−1	NE	1	-	b	2	-	72	52				
	Madrid (8 a.m.)	1017·7	81	NE	1	b	1023·7	0	64	−2	NE	2	-	b	*	-	81	54				
	Lisbon (9 a.m.)	1017·5	77	NNW	5	b	1018·1	+2	73	+7	NNE	5	-	b	5	-	79	66				
	Gibraltar	1018·6	67	E	5	f	1019·3	*	71	+7	E	6	*	b	2	-	75	63				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1010·7	0	72	−1	WNW	5	-	r	3	Trace	79	68				
	Azores (Horta, 8 a.m.)	1024·8	*	SSW	4	c	1026·4	+1	62	−5	N	1	*	b	2	-	73	59				
	Madeira (Funchal)	1019·4	77	NE	3	b	1020·2	0	68	0	NE	3	-	bc	3	-	81	66				

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

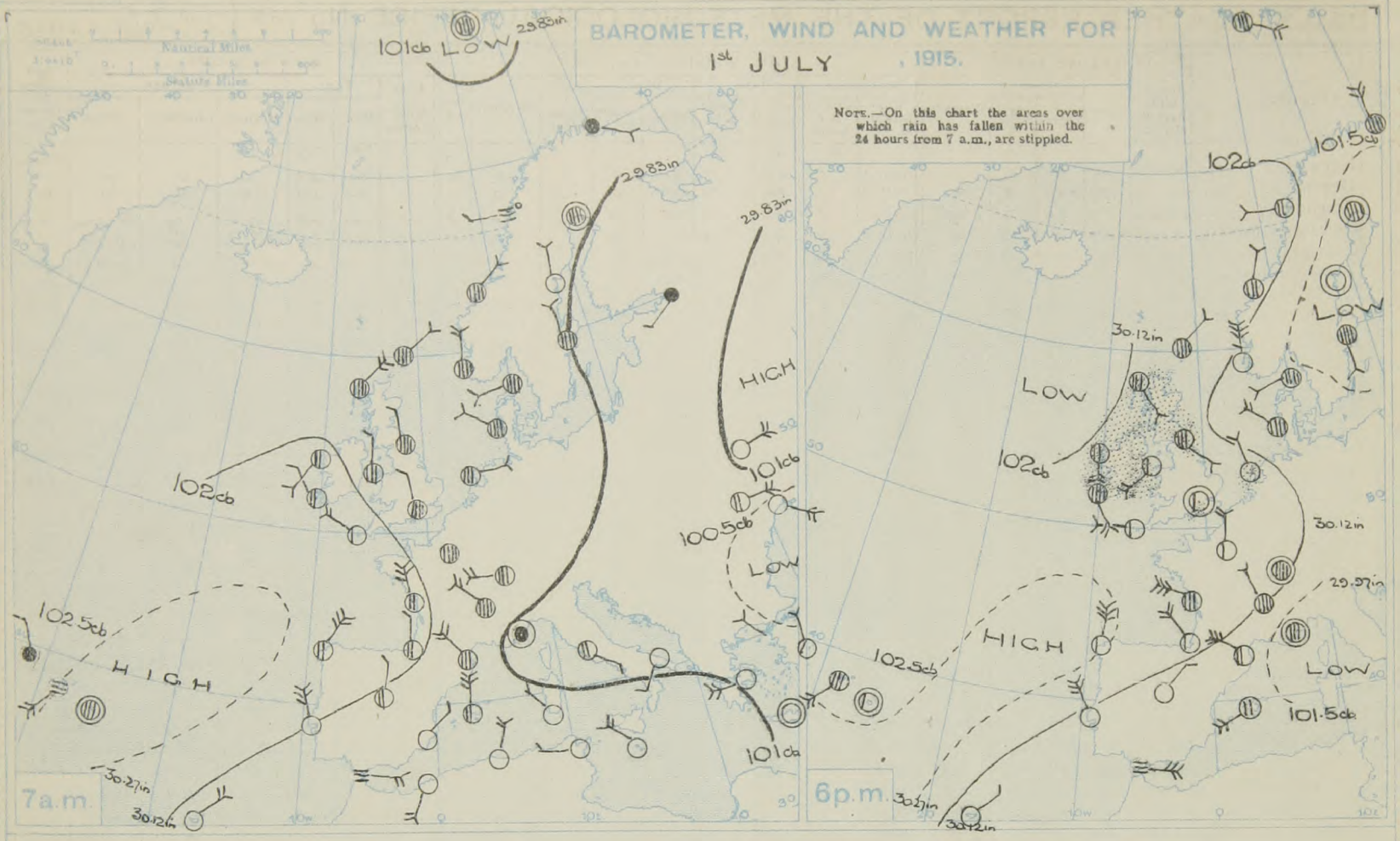
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 1st JULY, 1915.

Nautical Miles

Statute Miles

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 — Moderate or fresh South-Easterly to Southerly winds; dull and rainy at first, improving temporarily later; normal temperature.

2a, 2b — Light South-Westerly winds; changeable, occasional rain, thunder locally; normal temperature.

3, 4a, 4b, 5 — Light to moderate South-Westerly winds; fine at first, showery later, thunder locally; normal temperature.

6a, 6b, 7a, 7b — Moderate or fresh Southerly to South-Westerly winds; dull and rainy at first, improving later, but remaining showery; normal temperature.

8a, 8b, 9a, 9b, 10a, 10b — Moderate or fresh South-Westerly winds; changeable, some showers; normal temperature.

11 Western Channel and Bay — Moderate South-Westerly winds, northern part, with showery weather, and a moderate sea; light variable breezes further south, with fair weather and a slight sea.

FURTHER OUTLOOK.

Millibars / Inches

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

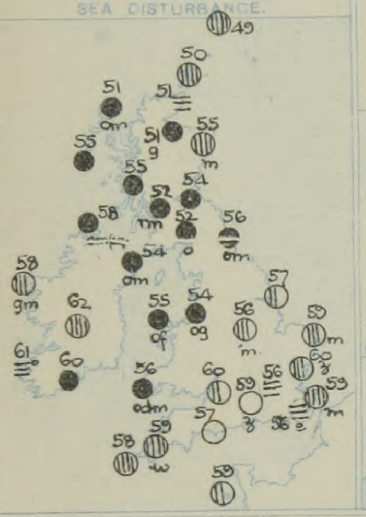
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 2nd JULY, 1915.

GENERAL INFERENCE.

The depression off the west of Scotland will move northwards, but its borders will extend sufficiently far to the eastward to occasion showery weather over our south-eastern districts and the neighbouring parts of the Continent.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

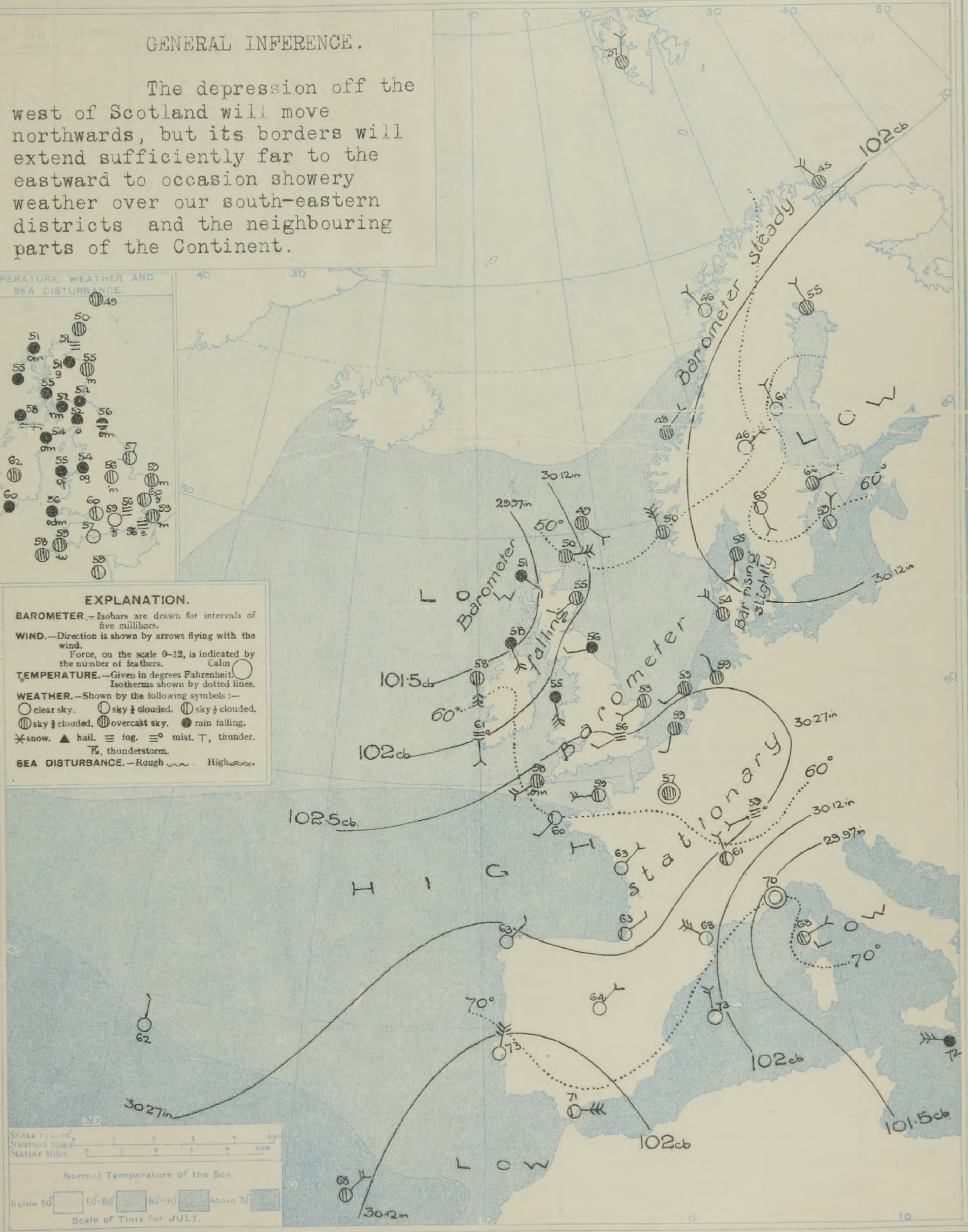
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



DAILY WEATHER REPORT. Friday, 2nd July 1915.

REPORTS FOR YESTERDAY.

1st July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Blaavands	1011·0	61	NW	1	b	1015·5	+2	57	-2	NW	2	-	0	*	-	63	54
Haparanda	1008·6	59	S	4	0	1010·1	+1	55	-2	–	0	-	0	*	.2	66	54
Hernosand	1006·3	55	-	0	bc	1012·2	0	56	+2	W	2	W	b	*	-	59	52
Stockholm	1005·5	68	SE	2	0	1010·0	+3	68	+11	NNW	2	-	0	*	-	78	57
Wisby	1006·7	61	-	0	bc	1010·6	+2	59	+2	–	0	-	c	*	-	68	55
Karlstad	1006·9	68	S.SW	4	b	1011·7	+3	61	0	–	0	-	bc	*	-	73	52
Petrograd	1007·3	73	SE	2	0	1009·1	0	66	+7	SW	1	-	c	*	.12	79	59
Lisbon	1019·1	72	NNW	6	b	1020·0	0	66	+2	NNW	5	-	b	5	-	77	63
Horta						1025·0	0	67	-1	SSW	4	*	f	3	-	72	66

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	59	51	c bc	c	4·0
	Banff	4	57	48	g	r	0·0
	Carnoustie	–	61	61	0	c0	1·8
	St. Andrews	–	62	52	*	*	1·9
Eng. N.E.	Harrogate	5	67	53	0c bc	b	5·5
	Skegness	–	66	53	0bc	bc ou	2·9
Eng. N.W.	Morecambe	–	64	53	0bc	b	6·2
	Blackpool	–	64	54	0·c	bc.c.0	4·6
	Southport	–	61	55	0c bc	c.0c	6·0
Midlands.	Buxton	5	64	51	bc	bc	4·1
	Leamington Spa	–	70	54	0c	bc.c	2·7
	Malvern	2	68	52	bc	bc	5·0
	Ross-on-Wye	–	73	46	bcm	bc.0	7·5
Wales.	Rhyl	–	61	53	bc	0	4·1
	Colwyn Bay	–	61	51	bc	bc	2·5
	Llandudno	*	63	52	.	.	2·3
	Aberystwyth	.	62	51	c.0.c	c.bc	3·7
	Tenby	.	68	57	bc	bc	9·4
England. E.	Cromer	.	62	53	0	bc.c.bc	1·8
	Lowestoft	.	59	54	0·c	c	0·9
	Felixstowe	–	63	53	0m	0m	0·1
	Walton-on-Naze	.	61	52	0g	0g	0·0
	Southend-on-Sea	.	65	53	d.0g	3bc.bg	1·8
England. S.E.	Tunbridge Wells	–	67	46	mo	0g	1·0
	Margate	–	61	53			0·0
	Ramsgate	–	61	53	0	0	0·0
	Hastings	-	63	53	0	0.bc	1·7
	Bexhill-on-Sea	-	64	53	c	b	2·9
	Eastbourne	–	65	55	bbc	0bg	10·4
	Seaford	-	67	52	b	b	11·6
	Brighton	-	69	53	bc.b	bc.b	12·2
	Worthing	-	68	53	b	b	11·2
	Littlehampton	-	?	60	b	b.0	10·2
	Bognor	-	71	53	b	b	11·6
	Southsea	-	72	50	b.c	c.b	9·6
	Bournemouth	5	75	57	b	bc	11·0
England. S.W.	Weymouth	–	71	54	b	b	12·5
	Torquay	–	71	53	b	bcb	12·3
	Paignton						
	Falmouth	-	66	56	6.bc	bc.b	12·6
	Penzance	-	67	57	b	b	12·9
	Newquay	-	63	53	bc	bc.bcb	7·0
	Ilfracombe	-	62	52	bc.f.bc	b	9·0
	Weston-super-Mare	-	66	47	b	.b	12·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	72	73	3·3	68	51	43	-	0	0.c.	c.bc.
City (Bunhill Row)	*	*	2·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	70	87	2·2	67	54	49	-	b	b.bm	b
Camden Sq. (Brit. Rainfall)	80	82	3·4	70	53	50	-	0	0,c	*
Hampstead (Reservoir)	*	93	3·1	65	52	36	-	c.up	em	cm
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	68	88	2·6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1128 Joules	190 Milliwatts.	61 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	65	57	56	0	0	0.c	*
Darwen to 9 p.m.	-	62	50	45	cg.0	0g.w	bc	7·3
Manchester ,,	Trace	64	56	*	0	0mc	c	4·3
Birmingham ,,	-	67	52	46	*	0	c.0	1·2
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	72	54	51	b	b	bc.b	14·1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	68	53	46	0.c.bc.	b.0g	0g.bg	*

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

2nd July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·36 / 3·37	11·57 / 11·57	8·17 / 8·17
Greenwich	3·49 / 3·50	12·4 / 12·4	8·18 / 8·18
Wick	3·12 / 3·14	12·16 / 12·16	9·19 / 9·18
Valencia	4·27 / 4·26	12·45 / 12·46	9·2 / 9·3

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 70° and upwards at several of our southern stations, and reached 75° at Bournemouth. Showers fell in a few isolated places, and thunder was heard at Tynemouth. Between 12 and 14 hours of bright sunshine were recorded on our south and south-west coasts.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 184 { Saturday 3rd July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1016·0	50	SE	5	og	1014·5	+2	49	0	SW	9	.	om	2	9	53	48	o	og	omr	*
	Deerness ...	1012·6	51	SSE	4	f	1013·6	*	56	+6	S	1	.	o	1	3	56	50	om	mpf	f.o	0·0
	Stornoway ...	1012·4	60	WSW	6	og	1014·7	+1	56	+5	SSW	4	.	odp	4	4	63	51	or.opg	or.odpg	odp	0·4
	Castlebay (Barra Isd.)	1014·4	58	SW	4	opm	1015·3	0	58	+3	S	4	.	o	4	1	58	54	r.opm	opm	opmo	0·1
	Glasgow ...	1016·7	61	W	3	c	1019·0	+1	58	+6	SW	1	.	o	*	8	66	52	r.odpg	c.o.c	c.odp.o	2·4
	Eskdalemuir ...	1017·8	58	S	4	omq	1020·2	+1	56	+4	SSW	3	SW	om	*	6	60	51	om	or.of.e	odm	0·0
	Malin Head ...	1015·9	62	WSW	4	bc	1017·0	0	58	0	SW	3	W	bc	3	-	62	55	cg	cgp	bc	3·5
	Blacksod Point	1016·9	59	SSW	4	om	1016·2	0	58	0	SSW	4	SW	cm	3	1	62	56	cmé	om	cm	*
	Valencia ...	1020·1	65	SSW	2	c	1018·5	0	60	-1	S	1	.	m	3	3	66	58			om	1·6
	Roche's Point	1022·4	61	SW	3	o	1021·1	*	58	-2	SW	3	.	r	4	7	62	58	ou	d.o	d.ofr	*
	Birr Castle ...	1019·5	64	W	2	c	1019·5	*	61	-1	S	1	.	o	*	6	67	57	oc	cp	bp	0·8
	Donaghadee ...	1017·1	65	SW	3	omp	1018·7	+1	61	+7	W	3	W	bc	2	3	73	54	cmp	omp	empcg	*
	Liverpool (Bidston)	1020·0	64	WSW	3	o	1021·6	+1	60	+6	-	0	.	cp	1	3	67	54	op.t	op.t	op	0·0
	Holyhead ...	1019·6	57	SW	5	f	1021·0	0	56	+1	SW	4	.	fpd	3	6	58	54	or.of.c	f	fpd	0·0
	Pembroke (St. Ana's)	1023·5	58	WSW	5	c	1023·0	-1	56	0	SW	2	.	c	3	1	59	55	odm	om	cp	0·1
	Scilly (St. Mary's)	1025·5	61	SW	3	c	1023·2	-1	57	-1	SSE	2	SW	cm	5	0·1	65	56	c	bc	bmfcp	5·8
	Falmouth ...	1025·6	64	WSW	3	c	1024·3	0	58	-1	SE	2	.	omd	1	-	66	56	c.o	o.c.bc	o	3·7
	Jersey (St. Aubin)	1026·8	65	W	3	b	1025·1	*	64	+5	W	2	.	b	1	-	67	50	bc.c.b	b	b	14·7
	Portland Bill ...	1025·7	58	WSW	4	c	1024·6	0	55	-2	WSW	1	.	f	1	.	60	53	o c	c	c.bcf	*
	Dungeness ...	1024·1	60	SW	4	bc	1024·3	0	64	+8	SW	1	.	b	1	.	64	55	fc bc	bc	bc	*
	Dover	1024·4	63	S	1	bc	1024·1	0	70	+15	SW	1	.	bcf	2	.	70	51	mo cbc	bc	c.bc.c	6·0
	Wick	1012·4	58	WSW	3	o	1015·9	+2	53	+2	SW	2	SW	c	2	4	62	50	omr	or.om	bcm	*
	Nairn	1012·5	66	WSW	3	bc	1015·5	*	59	+8	W	1	.	c	1	7	70	51	r.bc	g.bc	bo.c	6·5
	Aberdeen ...	1014·1	64	SE	3	bc	1017·8	+1	64	+9	S	2	W	b	1	2	65	50	omr	o.c.bc	c.bc.b	3·0
	Leith	1015·6	67	WSW	2	c	1018·9	+1	62	+8	WSW	2	W	c	*	3	68	54	or.og	c	cp	*
	Tynemouth ...	1018·0	66	SW	3	bcm	1020·1	+2	63	+7	WNW	2	W	bc	3	3	70	56	bcm	bcm	oc	*
	Spurn Head ...	1021·9	64	WSW	4	o	1022·3	0	61	+4	SW	2	-	om	3	1	68	55	bc	oc	omcm	3·1
	Yarmouth ...	1022·5	67	SW	2	cm	1023·5	+2	63	+4	W	2	-	c	1	0·2	67	59	cmom	cm	bc	3·5
	Clacton-on-Sea	1023·2	72	W	2	cg	1023·9	0	64	+4	W	2	NW	cg	1	-	72	59	c.bc.cg	cg	cg.bc.c	6·6
	Nottingham ...	1022·0	68	SW	4	o	1022·1	*	65	+9	W	3	NW	c	*	Trace	69	55	cp.o	o.c	o.c	1·1
	Bath	1024·7	64	WNW	3	o	1023·9	*	61	+1	W	1	W	c	*	-	70	52	bc.c.o	o	o.c.bcb	5·4
	Sth Farnborough	1023·6	72	WSW	2	c	1023·9	0	66	+7	WSW	1	W	bcivo	†	-	76	54	b.bc	c	c.bc	7·8
	London (Kew Obsy.)	1023·7	73	W	2	cir	1024·2	+1	65	+9	SW	2	SW	bo	*	-	75	56	f.o.bcm	o.c. cir	cir.o.bc	9·4
NORTHERN EUROPE.	Spitsbergen ...	1017·9	37	SSW	6	o	1020·8	+1	36	-1	SE	6	*	o	*	*	39	34				
	Vardö	1023·8	45	NNW	6	o	1024·6	0	45	0	N	5	-	o	4	*	45	41				
	Bodö	1022·3	48	N	2	b	1019·3	0	48	-2	N	1	S	b	1	-	39	32				
	Christiansund	1019·9	50	NE	2	c	1017·2	-1	50	+2	NE	2	-	c	3	.	54	45				
	Skudesnaes ..	1019·3	50	WSW	2	o	1016·3	-1	54	+4	E	2	-	f	1	4	54	48				
	Færder (X'iania Fjord)	1016·4	57	S	2	o	1015·3	0	61	+6	SW	4	W	b	3	-	59	55				
	The Scaw (Skagen)	1018·9	54	W	3	bc	1017·9	0	59	+4	W	3	-	m	3	-	59	52				
	Blaavands Huk	1023·5	57	W	2	o	1020·4	0	61	+7	WSW	2	-	f	2	Trace	61	52				
	Haparanda ..														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1023·4	61	SSW	2	bc	1022·6	0	63	+4	WSW	1	-	c	0	-	63	59				
	C. Gris Nez ...	1025·0	61	SSW	4	bc	1024·6	0	60	0	SSW	3	*	o	2	-	?	54				
	La Hève	1026·7	?	NNW	2	b	?1024·2	*	63	+4	-	0	*	b	0	-	68	54				
	Ushant	1027·5	59	SW	1	b	1023·7	*	61	+2	SE	3	*	b	5	-	72	61				
	Brest (St. Mathieu)	1027·7	64	WNW	2	b	1025·2	0	61	+1	E	3	*	b	5	-	72	61				
	Rochefort (Ile d'Aix)	1025·5	68	NW	4	b	1023·0	-1	64	+1	E	3	*	b	*	-	72	59				
	Biarritz	1024·2	69	NNE	3	c	1021·1	-2	64	+1	E	1	*	b	2	-	72	59				
	Paris	1025·1	70	NNE	2	b	1025·6	0	64	+7	NNE	1	-	b	*	-	73	50				
	Belfort	1024·0	?	-	0	m	1025·2	*	59	0	ENE	4	*	m	*	?	?	?				
	Lyons	1023·1	71	N	3	b	1021·3	*	64	+3	N	3	*	b	*	-	74	59				
	Nice	1011·7	76	-	0	b	1014·7	+1	73	+3	-	0	*	b	1	-	82	64				
	Perpignan ...	1019·3	75	NW	5	b	1018·6	0	73	+5	NW	4	-	b	*	-	81	66				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·3	75	N	3	b	1016·8	0	72	+9	SSE	2	-	b	2	-	81	61				
	Madrid (8 a.m.)	1016·7	84	E	2	b	1019·3	0	66	+2	NNE	1	-	b	*	-	86	59				
	Lisbon (9 a.m.)	1015·3	84	?NW	4	b	1015·0	+1	75	+2	N	2	-	b	5	-	91	72				
	Gibraltar	1016·9	69	E	5	b	1016·6	*	70	-1	E	5	*	b	4	-	74	67				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1026·3	*	NE	4	b	1026·3	0	61	-1	-	0	*	bc	1	*	77	59				
	Madeira (Funchal)	1017·5	73	NE	3	o	1018·1	+1	66	-2	N	3	-	b	3	-	75	66				

PILOT BALLOON ASCENT about 7 A.M

	500 m.	2000 m
SOUTH FARNBOROUGH.	SW. 10 m/h	WSW. 14 m/h

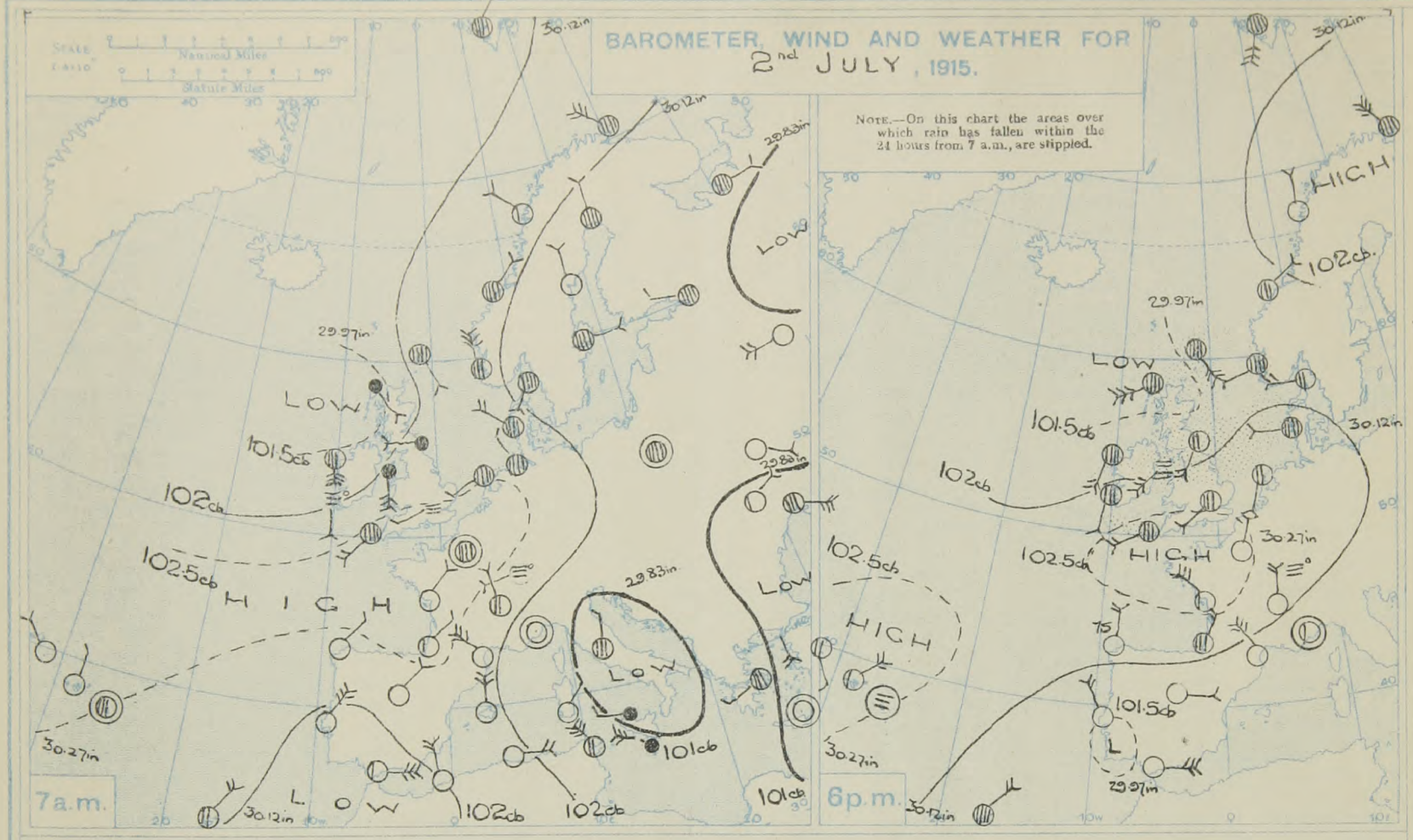
Increasing and Veering at upper level

RAINFALL.

Equivalents of Millimetres in Inches.

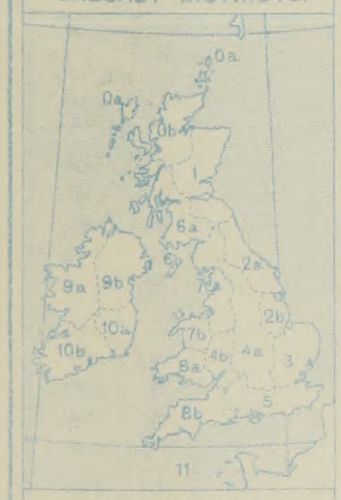
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued

Western Channel and Bay 11

0 a b 1 — Light South-Westerly to moderate Southerly winds; fair at first, showery later; normal temperature.

2 a b 3 4 a b 5 — Light Westerly to South-Westerly winds; mostly fine and warm, mist or fog locally on coast.

6 a b 7 a b — Moderate South-Westerly to Southerly winds; cloudy, showery, mist or fog locally on coast; normal temperature.

8 a b — Light to moderate Southerly winds; mostly fair and warm, but mist or fog locally on coast.

9 a b 10 a b — Light to fresh Southerly winds; cloudy, occasional rain, misty on coast; normal temperature.

11 — Light Easterly and South-Easterly winds, with a moderate sea; mostly fair and warm.

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

FURTHER OUTLOOK.

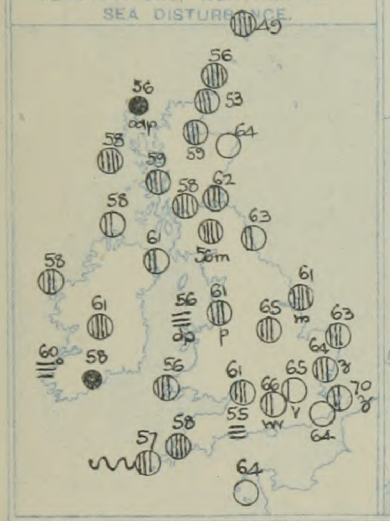
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 3RD JULY, 1915.

GENERAL INFERENCE.

There are some indications of the approach of a new depression towards the Irish coasts, but the influence of this disturbance will probably be confined to our western and northern districts.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

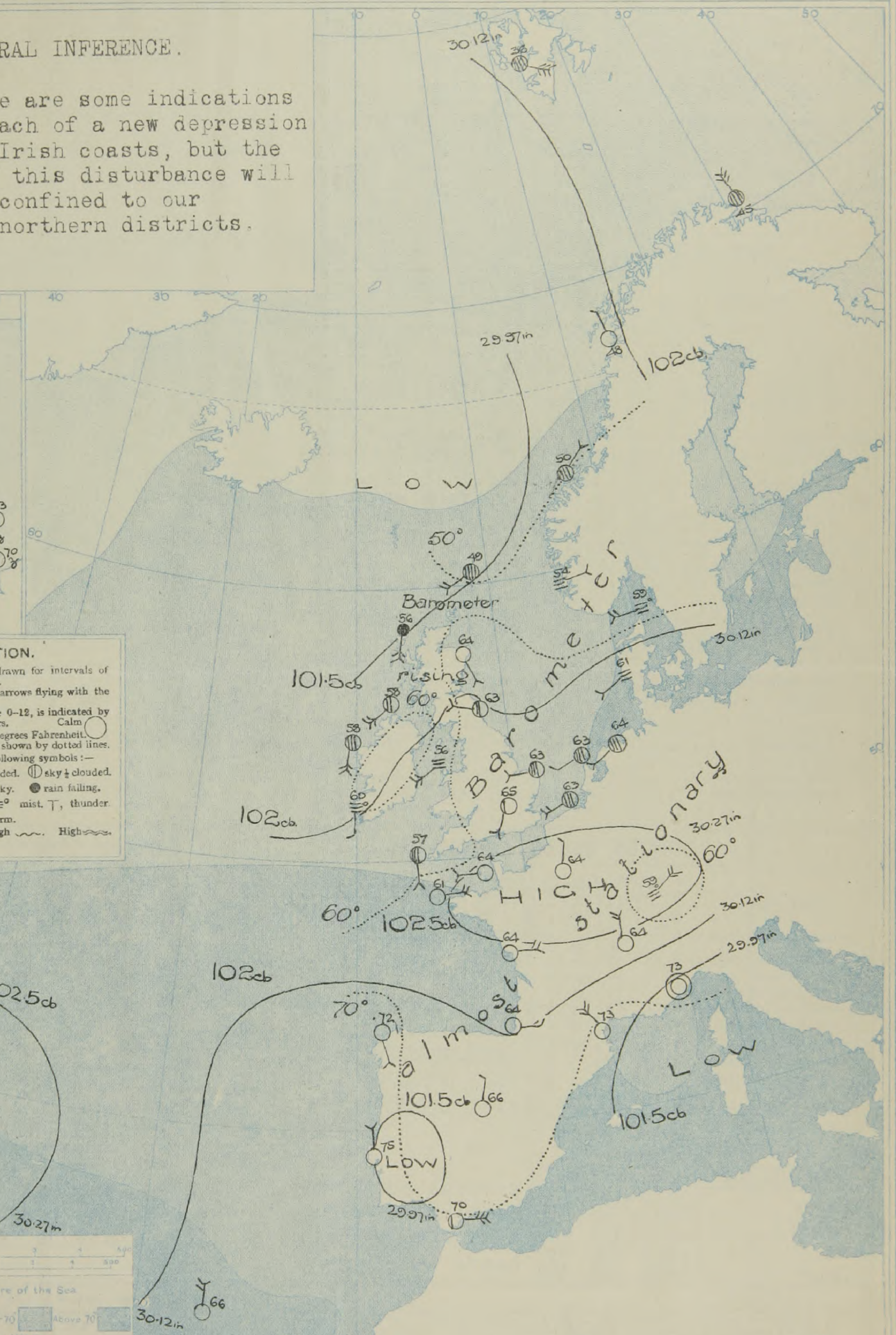
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Saturday 3rd July 1915.

REPORTS FOR YESTERDAY.

2nd July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1012·4	64	WNW	3	0	1014·4	+1	61	−5	WNW	1	–	0	*	–	75	59
Rome	1009·0	63	N	1	b	1008·6	0	63	−9	N	1	–	c	*	–	75	55

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	58	48	r	oc	0·0
	Banff	1	68	51	o	bc.c	1·3
	Carnoustie	4	67	46	ogr	r. bc	1·4
	St. Andrews	1	68	44	*	*	1·5
Eng. N.E.	Harrogate	2	67	48	r.o	c.bc.c.o	1·9
	Skegness	–	72	51	o. bc	bc.o	4·6
Eng. N.W.	Morecambe	7	62	50	d	d	0·0
	Blackpool	12	62	49	or.od	o.or	0·0
	Southport	7	63	49	or	op.o	0·0
Midlands.	Buxton	1	63	45	c.b	c	0·6
	Leamington Spa	–	69	52	c	c	2·9
	Malvern						
	Ross-on-Wye	–	68	49	bo.cm	beg.o	5·2
Wales.	Rhyl	1	68	49	–	–	1·2
	Colwyn Bay	–	69	50	c	c	3·5
	Llandudno	0·3	67	51	–	–	2·0
	Aberystwyth	2	62	52	rac	or.o	0·0
	Tenby	2	60	49	o	o	0·0
England. E.	Cromer	–	72	55	bc.c.om	bc.c.bc	3·7
	Lowestoft	–	66	57	3.bc.c.o	op.c	4·0
	Felixstowe	–	72	55	bcm	c	6·5
	Walton-on-Naze	–	71	55	b3	bo3	6·3
	Southend-on-Sea	–	76	55	3.bc.c	bc.c	4·1
England, S.E.	Tunbridge Wells	–	75	49	b	b. bc	10·5
	Margate	–	74	54	c.bc.b	bc.c	7·5
	Ramsgate	–	70	54	b.bc	bc	6·4
	Hastings	–	66	53	b	b	11·7
	Bexhill-on-Sea	–	67	54	c. f	b	9·2
	Eastbourne	–	67	54	b	b	11·5
	Seaford	–	64	52	f b	b	10·4
	Brighton	8	66	52	c.bc	bc.c	9·6
	Worthing	–	67	53	b	bc.b	9·8
	Littlehampton	–	67	57	b	b	10·2
	Bognor	–	67	52	b	b	11·5
	Southsea	–	70	55	b	bc	11·5
	Bournemouth	–	68	51	bc.b	c. o	8·8
England, S.W.	Weymouth	–	68	53	bc	bc.c	8·4
	Torquay	–	69	51	o.c.bc	c.bc	6·7
	Paignton						
	Falmouth	–	66	53	c.o	o.c.bc	2·5
	Penzance	–	67	53	o3	oc.bc	3·0
	Newquay	–	67	49	bc.o	o	0·9
	Ilfracombe	–	67	54	bc	o.c	3·4
	Weston-super-Mare	–	66	53	b. bc	c.o	4·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	51	52	6·8	80	59	51	–	c.bc	c.bc	bc.b
City (Bunhill Row)	*	*	4·8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)			4·5							
Camden Sq. (Brit. Rainfall)	44	55	4·4	80	59	55	–	bm.bc	c.bc	*
Hampstead (Reservoir)	*	57	?	74	56	44	–	c.o	b	b
Richmond Park	*	*	3·8							
Kew. (See front page.)										

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

Vertical Component of Solar Radiation per square centimetre during Yesterday.

	Total.	Average Rate.	Max. Rate.
S. Kensington (Roof of M.O.)	1639 Joules	27·6 Milliwatts.	89 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	–	66	52	40	*	c	c.o.c	1·6
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	–	71	50	49	b. bc	bc	bc	5·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	76	56	49	b3.b	c.bc.o	bc.c.	*

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

3rd & 4th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·37 / 3·38	11·57 / 11·57	8·17 / 8·16
Greenwich	3·50 / 3·51	12·4 / 12·4	8·18 / 8·17
Wick	3·14 / 3·15	12·16 / 12·16	9·18 / 9·17
Valencia	4·26 / 4·29	12·46 / 12·48	9·2 / 9·1

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 70° and upwards in several parts of the country, and reached 76° at South Kensington and South Farnborough. Rain fell at most of our western and northern stations, and thunder was heard at Liverpool.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 185 {Sunday 4th July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	?	55	SSW	1	c	?	-2	53	+4	SSW	1	-	f	1	1	61	51	om	c	c omp	*
	Deerness ...	1015·9	54	S	1	c	1011·8	*	54	+1	NW	1	-	o	0	-	62	53	o	o c	c o	1·4
	Stornoway ...	1014·7	59	SW	4	o	1012·0	-1	55	-1	S	1	-	oz	1	2	61	55	o dp	c odp	c be dp g	1·1
	Castlebay (Barra Isd.)	1015·0	57	-	0	o	1012·1	-1	55	-3	S	3	-	om	3	Trace	59	55	om	om o	o fm	0·0
	Glasgow ...	1014·6	62	SW	2	o	1014·8	-1	54	-4	SSW	2	-	o	*	2	69	52	o c bc	be dp o	o dp o g	6·3
	Eskdalemuir ...	1019·6	52	SSW	4	o d m	1016·0	-2	51	-5	SSW	1	S W	o	*	6	64	49	o m o d m	o r m	o r m g. c	2·1
	Malin Head ...	1016·5	62	WSW	2	c r m	1013·2	0	58	0	S E	1	S	c v	1	9	68	54	bc	c m	c m r	6·0
	Blacksod Point	1015·2	58	SSW	4	c m p	1012·5	-2	58	0	SSW	4	S W	be g	4	Trace	62	53	c g	c m p	c m be g	*
	Valencia ...	1017·5	59	S S E	1	o	1014·9	0	57	-3	S S E	1	S W	c	4	9	61	55	o m r	o m r	o p c p	0·0
	Roche's Point	1020·0	60	SSW	1	o	1016·3	*	56	-2	N	1	S W	bc	2	8	63	51	r o d	o d m	r o. bc	*
	Birr Castle ...	1018·0	56	SW	1	r	1015·7	*	58	-3	S	1	S	be g	*	19	63	53	o r	o r	o r. bc	0·0
	Donaghadee ...	1017·3	59	SSW	3	o r m	1014·2	-1	57	-4	SW	4	SW	be m p	3	3	66	54	c m p	o r m	o m r c m	*
	Liverpool (Bidston)	1020·4	62	S E	1	r	1016·3	0	55	-5	S E	2	S E	r	2	10	66	54	o r	c o p	o r	0·2
	Holyhead ...	1019·7	59	SSW	5	c m g	1015·0	-3	57	+1	N	3	-	bc	2	16	59	53	f o r c p	o p o p c	o r p c f	0·3
	Pembroke (St. Ann's)	1021·0	59	S E	2	c	1014·9	-1	58	+2	-	0	S W	c	0	2	61	56	c	c f r. c p	c p	2·4
	Scilly (St. Mary's)	1019·5	60	S E	2	c m	1013·8	-2	58	+1	N E	1	S	o	3	-	66	56	bc	c m	c q. o	7·0
	Falmouth ...	1020·1	61	E S E	1	c	1013·3	-2	62	+4	N E	2	-	c	3	Trace	64	57	o r. c	bc	b bc. e	3·7
	Jersey (St. Aubin)	1020·9	77	S	2	b	1014·6	*	70	+6	E	2	-	b	1	-	77	63	b	b	b	14·6
	Portland Bill ...	1021·5	60	E N E	2	bc	1014·8	-3	60	+5	E	3	-	bc	2	-	63	55	bc f	bc	b bc c	*
	Dungeness ...	1022·9	64	W S W	2	bc	1017·0	-3	63	-1	E N E	1	E	c	1	-	66	58	bc	bc	b bc	*
	Dover	1021·9	69	SW	1	b	1016·6	-3	69	-1	S S E	1	-	b	1	0·1	73	60	b	b	b. bz	12·6
	Wick	1015·7	58	WSW	2	bc	1011·9	-2	55	+2	W	1	—	o	1	Trace	62	52	c m o m	bc m	bc o p d	*
	Nairn	1015·2	66	-	0	c	1012·4	*	57	-2	W	1	-	o r	1	3	72	56	c	g bc. c	c p	0·8
	Aberdeen ...	1016·4	63	S	3	c	1012·9	-2	58	-6	S W	3	-	o	2	0·1	71	58	b bc	c bc	c o p	10·1
	Leith	1016·9	62	SW	2	o	1014·8	-1	57	-5	W	1	-	o	*	1	72	55	c	c o p	o g o r	*
	Tynemouth ...	1019·9	62	SW	2	o m	1014·3	-2	55	-8	S S W	2	-	o m r	3	4	69	54	c m	c m	b m r	*
	Spurn Head ...	10214	66	WSW	3	c	1017·8	-2	65	+4	-	0	S	o r m	4	13	69	58	o c m	c m t b r	bc	3·6
	Yarmouth ...	1022·1	68	S	3	bc	1018·1	-3	62	-1	S	4	S	c	2	0·3	75	60	c	c bc	c p	7·8
	Clacton-on-Sea	1021·3	66	S S E	2	b c z	1014·9	-2	63	-1	E	2	S	o	2	-	72	61	c b c z	b c g y	b c q. o	9·0
	Nottingham ...	1021·2	69	W	1	c	1014·5	*	59	-6	N E	1	N E	t t r	*	10	76	58	c. o	o p. c	c o r	5·2
	Bath	1021·2	68	SW	1	o	1015·9	*	64	+3	E	1	S	o	*	Trace	75	59	c b c o	c o p	c o p	4·3
	Sth Farnborough	1020·6	77	S	3	c	1015·7	-3	65	-1	-	0	-	b c z	*	-	80	61	b c o	b c c	c o	9·8
	London (Kew Obsy.)	1020·7	74	SW	1	o	1016·2	-3	68	+3	S	2	S	o	*	Trace	81	62	b v b c	c b c w	o c o p o	8·8
NORTHERN EUROPE.	Spitsbergen ...	1021·6	36	S	5	r	1023·1	+2	36	o	S	7	*	o	*	*	37	34				
	Vardö	1025·2	43	N E	1	o	1027·5	o	45	o	N E	2	-	o	2	*	46	41				
	Bodö	1017·7	52	-	o	b	1019·3	o	50	+2	W	1	-	b	2	-	54	46				
	Christiansund	1018·4	54	N	1	c	1017·3	o	55	+5	-	o	-	c	2	-	57	45				
	Skudesnaes ..	1019·5	55	-	o	m	1017·5	-1	55	+1	E	2	-	m	1	-	57	48				
	Færder (Christiania Fjord)	1014·1	62	WSW	1	m	1016·7	+1	61	o	N	2	-	b	1	-	63	59				
	The Scaw (Skagen)	1017·0	63	WSW	3	m	1017·1	o	63	+4	W	2	W	be	3	-	66	54				
	Blaavands Huk	1020·4	61	SW	1	m	1019·9	o	59	+2	WNW	1	-	f	o	-	66	55				
	Haparanda ...	1018·6	68	E N E	2	b	1026·0	o	55	-2	-	o	-	o	*	-	75	54				
	Hernösand ...	1017·5	55	N N E	2	b c	1018·1	o	61	+4	E N E	2	-	b	*	-	63	50				
	Stockholm ...	1014·4	64	-	o	o	1015·1	+2	63	-1	N N E	2	-	o	*	6	75	55				
	Wisby	1016·4	64	WSW	2	c	1016·2	o	63	+6	W	2	-	b	*	-	63	57				
	Karlstad	1014·1	66	WSW	2	c	1016·4	+1	63	+4	-	o	-	b	*	-	70	52				
	Petrograd (5 a.m. G.M.T.)	1016·2	61	N E	1	o	1016·7	o	61	-2	-	o	-	c	*	-	?	55				
FRANCE, &c.	The Helder ...	1022·1	66	WNW	1	b	1019·3	-2	70	+7	S E	1	S W	b	o	-	70	58				
	C. Gris Nez ...	1021·6	69	SW	1	b	1016·8	-2	72	+12	S E	4	*	bc	1	-	70	63				
	La Hève	1022·3	71	-	o	b	1015·8	*	70	+7	E S E	3	*	m	2	-	79	54				
	Ushant							*					*									
	Brest (St. Mathieu)	1021·3	66	S	3	bc	1013·1	-2	67	+6	E	3	*	o	3	-	86	64				
	Rochefort (Ile d'Aix)	1017·9	69	E	4	b	1013·7	-5	66	+2	E S E	3	*	c	*	3	?73	?61				
	Biarritz	1014·4	81	E	2	b	1014·6	+3	68	+4	W	4	*	c	4	-	84	66				
	Paris	1020·8	77	NNE	2	b	1017·3	-1	70	+6	E	1	W	b	*	-	81	57				
	Belfort	1021·0	72	E N E	5	m	1019·0	*	63	+4	E N E	5	*	m	*	-	75	54				
	Lyons	1017·9	76	N	2	b	1017·0	*	66	+2	-	o	*	b	*	-	79	56				
	Nice	1015·0	76	-	o	b	1015·9	o	76	+3	-	o	*	b	1	-	86	66				
	Perpignan ...	1017·0	81	SW	1	b	1015·4	+1	72	-1	-	o	-	b	*	-	90	66				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1016·7	70	N	3	b	1014·0	+3	66	-6	N E	4	-	b c	3	-	84	64				
	Madrid (8 a.m.)	1013·1	86	S	1	b	1016·0	+1	73	+7	-	o	-	b	*	-	90	?				
	Lisbon (9 a.m.)	1015·7	84	N N W	3	b	1017·3	+1	66	-11	N N W	4	-	b	6	-	88	64				
	Gibraltar							*					*									
	Rome	1012·8	73	S W	2	b	1014·6	+2	73		N	1	—	b	*	-	81	66				
	Malta (8 a.m.) ...	*	*	*	*	*	1014·3	+3	70		N N W	3	-	b	2	-	77	66				
	Azores (Horta, 8 a.m.)	1026·9	*	S S W	3	b c	1026·3	o	64	+3	-	o	*	b	1	-	75	63				
	Madeira (Funchal)	1018·7	73	N	3	b	1019·8	o	68	+2	N E	3	-	o	3	-	73	66				

RAINFALL.

Equivalents of Millimetres in Inches.

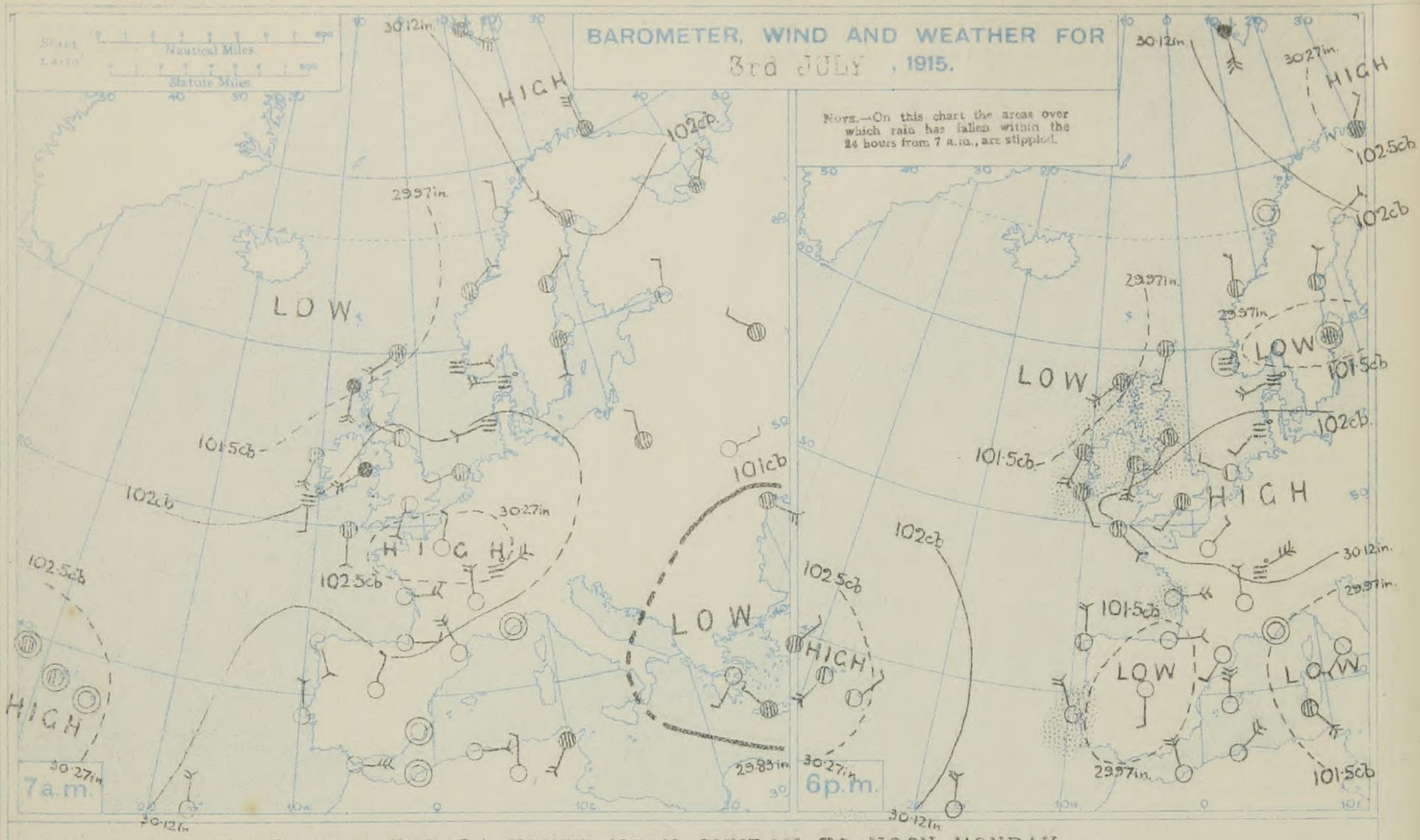
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69
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 3rd JULY, 1915.

Nautical Miles / Statute Miles

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 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	Light Southerly to variable breezes; cool,
1	cloudy, some rain, thunder locally.
2 a, b	Light variable breezes, close unsettled, some rain, thunder locally.
3, 4 a, b, 5	Light breezes, chiefly Easterly; fair at first, thunderstorm tendency developing later; air warm and close.
6 a, b	Same as Nos 0 and 1.
7 a, b	Same as No 2.
8 a, b	Light breezes, chiefly North-Easterly; fair at first, thunder showers later, air warm and close.
9 a, b, 10 a, b	Light breezes, chiefly Southerly; fair generally, becoming warmer.
11 Western Channel and Bay	Light North-Easterly to variable breezes and a slight sea; changeable, local thunderstorms, air warm and close

FURTHER OUTLOOK.

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

W. NAPIER SHAW, Director

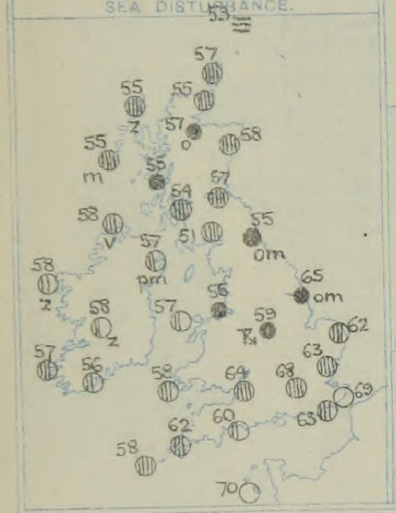
Millibars / inches
1050 — 31
1040
1030
1020 — 30
1010
1000
990
980 — 29
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 4th JULY, 1915.

GENERAL INFERENCE.

The conditions are becoming favourable for the development of local thunderstorm depressions over Great Britain and the neighbouring portions of the Continent.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

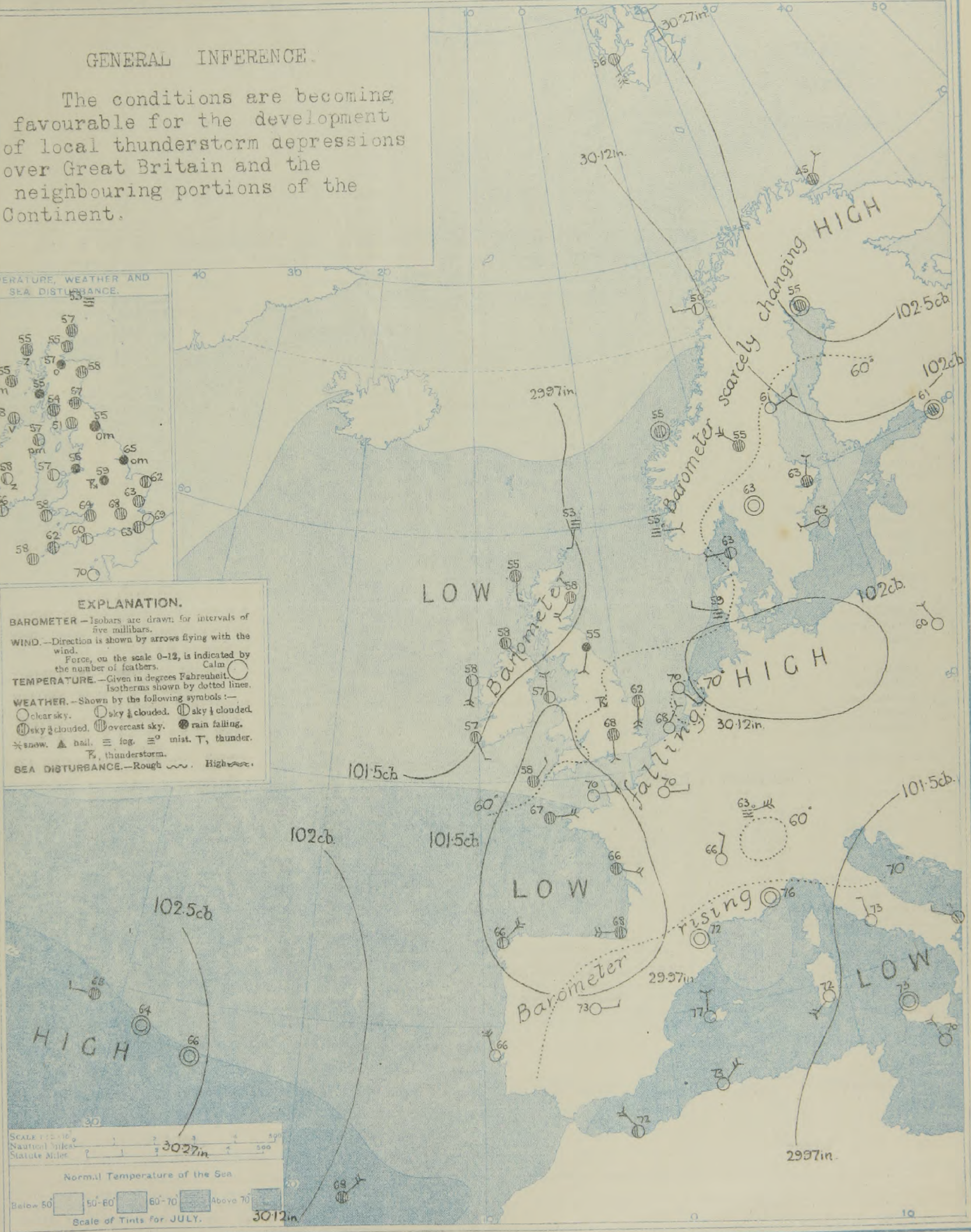
BAROMETER.—Isobars are drawn for intervals of five millibars.

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. T, thunder. T_s, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.



DAILY WEATHER REPORT. Sunday, 4th July, 1915.

REPORTS FOR YESTERDAY.

3rd July 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1019·3	61	N	4	bc	1020·3	0	57	+2	NNW	2	–	o	*	–	66	50
Hernösand	1017·9	59	–	0	bc	1018·0	0	57	–4	NE	2	S	bc	*	1	68	52
Stockholm	1016·8	68	SE	2	0	1016·2	0	64	–2	S	2	–	o	*	–	72	57
Wisby	1017·6	61	–	0	b	1017·9	*	57	–2	WNW	2	–	o	*	–	61	55
Karlstad	1016·9	72	S	4	b	1016·3	0	59	–4	SSW	2	–	c	*	–	75	54
Petrograd	1014·1	66	–	0	b	1015·3	0	63	+2	NNE	1	W	b	*	–	72	59

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	64	52	c.bc	c	2·0
Scotland.	Banff	–	71	50	ep	c.bc.c	5·4
Scotland.	Carnoustie	–	75	52	bc.o	c.bc	8·4
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	71	58	c.bc.er	o.c.bc.c	2·3
Eng. N.E.	Skegness	Trace	75	59	o.bc	bcp.bc	4·6
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	7	62	56	cdm.or	bc.c.or	0·7
Eng. N.W.	Southport	9	62	56	or	or.c	1·0
Midlands.	Buxton	1	69	57	bc	bc	4·6
Midlands.	Leamington Spa	1	73	57	c.bcp	ep	5·4
Midlands.	Malvern						
Midlands.	Ross-on-Wye	1	71	56	c.bc.o	ep	4·3
Wales.	Rhyl	8	66	57	p.o	bc	0·8
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	3	64	52	r.o.c	c.er	2·2
Wales.	Tenby	–	63	56	bc	bc.o	1·6
England, E.	Cromer	–	74	59	c.bc	bc.c.op	5·3
England, E.	Lowestoft						
England, E.	Felixstowe	–	73	60	bc	bcm	8·3
England, E.	Walton-on-Naze	–	71	59	b	b.bc	9·2
England, E.	Southend-on-Sea	–	83	60	z.b.bc	bc	6·3
England, S.E.	Tunbridge Wells	–	80	55	b	b.bc	10·7
England, S.E.	Margate	–	?78	60	bc	bc	?8·5
England, S.E.	Ramsgate	–	73	60	bc	bc	9·6
England, S.E.	Hastings	–	74	56	b	b	11·8
England, S.E.	Bexhill-on-Sea	–	68	56	b	bc	10·8
England, S.E.	Eastbourne	–	75	57	b	b.bc	12·5
England, S.E.	Seaford	–	70	57	b	b	10·7
England, S.E.	Brighton	–	67	56	bc.b	b.bc.c	13·1
England, S.E.	Worthing	–	71	55	b	b.bc	11·6
England, S.E.	Littlehampton	–	*	*	b	bv	10·5
England, S.E.	Bognor	–	67	56	b	b.bcv	11·8
England, S.E.	Southsea						
England, S.E.	Bournemouth	–	74	55	b	b.bcv	9·0
England, S.W.	Weymouth	–	72	55	bc	bc	7·8
England, S.W.	Torquay	–	68	55	b.bc	bc	12·3
England, S.W.	Paignton	–	76	55	b.bc	bc	11·9
England, S.W.	Falmouth	0·3	64	56	or.c	bc	3·5
England, S.W.	Penzance	–	65	57	b	bc.o	5·9
England, S.W.	Newquay	–	69	53	bc.c.b	bv.o	7·5
England, S.W.	Ilfracombe	–	64	58	bc.c	bc.c	7·1
England, S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. Today. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.)	48	56	9·5	86	60	51	–	bc	c	c.qp.o
City (Bunhill Row)	*	*	8·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)			8·8							
Camden Sq. (Brit. Rainfall)	51	67	9·1	84	62	58	–	b.bc	b.o	*
Hampstead (Reservoir)	*	62	8·8	79	61	47	–	bcp	bc	bcm
Richmond Park	*	*	9·5							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.)	45	55	9·2

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
2004 Joules	33·8 Milliwatts.	86 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	2	63	58	56	c.or	rgf.o	p.o	*
Darwen to 9 p.m.	8	63	58	58	ogr	ogr	ogr.bc	1·3
Manchester ,,	4	70	61	*	r.o	or.o	bc	2·5
Birmingham ,,	1	69	55	51	c	c	c	2·7
Oxford to 8 p.m.	*	77	58	51	c.bc	bc.c.op	op	*
Teignmouth to 9 ,,	–	69	55	54	bc	bc	bc	10·4
Plymouth ,,	–	68	56	52	bcv	bc	bc	7·5
S. Kensington (Museum Grounds to 6 p.m.)	–	82	60	54	b.c	c	c.bc.c	*

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

...4th & 5th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.36 / 3.38	11.57 / 11.57	8.16 / 8.16
Greenwich	3.51 / 3.51	12.4 / 12.4	8.17 / 8.17
Wick	3.16 / 3.16	12.16 / 12.16	9.17 / 9.16
Valencia	4.29 / 4.29	12.45 / 12.45	9.1 / 9.1

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 75° and 80° in many parts of England and reached 83° at Southend-on-Sea. Considerable quantities of rain were recorded at several of our western stations and a thunderstorm occurred at Spurn Head.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 186. Monday, 5th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Min. °F.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1009·6	53	SW	2	om	1011·3	0	51	-2	S	2	–	bf	1	2	56	48	fd.	fd om	cm.f	*
	Deerness ...	1011·5	62	NW	1	b	1011·5	*	56	-1	SE	1	SW	bc	0	2	62	51	or 0	o.c.bc.b	b.bc	3·5
	Stornoway ...	1010·5	61	S	4	cq	1010·8	0	56	+1	SSW	3	S	bc	3	1	62	52	bcq	cq	bcp	1·9
	Castlebay (Barra Isd.)	1011·2	58	SW	4	bc	1011·1	0	56	+1	SSW	2	N	c	2	–	60	52	o.bc.om	om.bc	c.bc	6·8
	Glasgow ...	1012·2	67	SW	2	bc	1013·1	+1	56	+2	W	1	–	b	*	–	69	53	o.c	c.bc.b	b.bc.b	7·3
	Eskdalemuir ...	1011·9	66	SSW	3	bc	1012·2	0	52	+1	SSE	1	–	om	*	Trace	68	47	o.c	c.bc	bcq.f	8·0
	Malin Head ...	1013·3	60	NW	2	b	1012·8	0	56	-2	S	3	S	bc	3	2	64	56	bcp	bc	bc	9·5
	Blacksod Point	1013·1	61	WSW	3	bc	1014·2	0	56	-2	SW	4	SW	cp	4	–	63	53	bc	bc	bc	*
	Valencia ...	1015·2	62	W	2	bc	1017·1	+1	57	0	W	2	SW	o	4	–	65	53	c	c	c.bc.o	12·0
	Roche's Point	1014·5	67	NW	2	bc	1017·7	*	58	+2	SSW	1	W	bc	2	3	67	54	cp	p.bc	c.bc	*
	Birr Castle ...	1013·6	65	W	2	bc	1015·9	*	57	-1	SSW	1	–	c	*	–	68	50	bc	bc	c	10·2
	Donaghadee ...	1012·1	62	SW	3	cmp	1013·7	+1	55	-2	WNW	2	–	bcm	1	1	65	52	*	cmp	cp.bcm	*
	Liverpool (Bidston)	1013·2	61	SE	1	bc	1014·6	+2	57	+2	WSW	2	–	b	2	1	63	53	cfp	o.c	bc.b	0·4
	Holyhead ...	1013·2	60	NW	3	cz	1015·1	+2	57	0	N	2	NW	c	1	–	66	52	bc.c.bc	bc.b.bc	c.o.b.bc	10·3
	Pembroke (St. Ann's)	1014·1	57	WNW	2	b	1016·4	+3	55	-3	WSW	2	NW	bf	2	–	68	52	bc.c	c.bc	b	8·0
	Scilly (St. Mary's)	1015·0	60	NW	4	c	1017·9	+1	58	0	WNW	2	W	bc	3	–	66	55	c.bc	bc	c.bc	10·6
	Falmouth ...	1013·3	64	WNW	4	b	1016·6	+2	60	-2	W	3	–	b	3	–	71	55	c.b.bc	b	bc	8·9
	Jersey (St. Aubin)	1011·1	75	W	4	c	1018·2	*	66	-10	W	3	W	b	3	1	81	57	bc.c.b.t	bc.c	cfp.c.b	9·7
	Portland Bill ...	1011·4	63	WNW	1	b	1018·8	+3	60	0	W	1	–	b	2	–	66	56	bc	bc.b	b.bc	*
	Dungeness ...	1011·2	68	SSE	2	bc	1013·4	+4	62	-1	NNW	2	–	o	2	–	73	60	bc	bc	bc.cl.o	*
	Dover	1012·4	75	SE	1	b	1014·3	+3	66	-3	NW	2	NW	o	3	–	82	60	bc.c.b	bc.b	bc.c.o	13·4
	Wick	1012·4	55	–	0	c	1011·4	0	57	+2	WNW	1	–	c	2	6	64	48	om.c	cp	cm.b	*
	Nairn	1010·9	63	–	0	bc	1011·1	*	56	-1	–	0	–	c	0	1	67	51	d.bc	p.c.bc	cq	4·0
	Aberdeen ...	1012·8	58	E	2	cp	1011·8	+1	58	0	NE	1	–	cp	2	1	67	52	o.c	o.cp	cp.op	3·5
	Leith	1012·1	65	–	0	c	1012·0	+2	59	+2	WSW	2	W	b	*	0·2	67	56	c.bc	c.cp	cpt.bc	*
	Tynemouth ...	1013·2	58	SSE	2	c	1011·7	0	59	+4	WNW	2	–	bm	3	1	64	54	bcm	bcm	cm	*
	Spurn Head ...	1013·6	58	ENE	3	thr	1012·3	0	56	-9	NW	4	–	f	4	2b	59	53	othr	thr	thr.f	0·0
	Yarmouth ...	1011·6	63	SE	2	bcm	1013·4	+2	61	-1	WNW	3	–	o	2	1	67	58	c.bcm	bcm	othr	7·2
	Clacton-on-Sea	1011·4	67	ESE	4	bcq	1013·6	+3	60	-3	NW	2	S	c	1	6	70	57	o.c.bcq	c.bcq	c.othr.	7·9
	Nottingham ...	1013·5	58	ENE	2	thr	1013·9	*	58	-1	SW	2	W	c	*	5q	60	53	tr	thr	thr.c	0·0
	Bath	1012·2	64	NW	1	o	1015·5	*	58	-6	W	1	W	c	*	2	74	56	o.c	otc.c	c.cp	2·7
	Sth Farnborough	1010·1	78	S	1	b	1014·2	+3	61	-4	WNW	2	W	bc	*	–	81	56	o.c	bc.b	b.bc	5·7
	London (Kew Obsy.)	1010·2	80	S	3	b	1014·7	+4	62	-6	NW	1	–	o	*	–	84	58	o.c	c.bc	bc.c.bc	5·2
NORTHERN EUROPE.	Spitsbergen ...	1025·9	39	S	2	bc	1025·5	0	37	+1	N	2	*	b	*	*	39	34				
	Vardö	1026·0	41	E	2	o	1026·1	0	43	-2	ESE	3	–	o	2	*	45	41				
	Bodö	1019·8	45	W	2	f	1015·5	-3	?45	-5	E	3	–	b	2	–	50	41				
	Christiansund	1014·1	59	–	0	o	1012·6	0	57	+2	–	0	–	o	1	1	61	57				
	Skudesnaes ..	1015·3	54	S	4	r	1011·1	-3	54	-1	?	1	–	r	1	15	57	54				
	Færder (X'ianiaFjord)	1016·4	61	SW	2	bc	1015·4	0	63	+2	S	2	–	o	1	–	66	59				
	The Scaw (Skagen)	1017·3	64	W	1	bc	1015·0	-1	63	0	SSE	2	–	c	2	–	68	59				
	Blaavands Huk	1017·6	63	SW	1	c	1013·5	+2	61	+2	E	1	–	thr	2	1	68	55				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1013·6	75	E	2	b	1009·1	-2	72	+2	ESE	1	W	b	0	–	77	64				
	C. Gris Nez ...	1010·9	82	SE	2	bc	1013·2	+6	61	-11	NNW	1	*	m	1	–	86	59				
	La Hève	1011·1	77	WSW	2	b	1016·2	*	59	-11	NW	2	*	o	3	–	84	55				
	Ushant	1016·6	61	NNW	3	b	1019·5	*	61		NNW	3	*	b	3	–	73	54				
	Brest (St. Mathieu)	1016·6	61	NNW	4	c	1020·4	+2	61	-6	W	1	*	b	3	–	81	59				
	Rochefort (Ile d'Aix)	1015·3	67	WSW	5	o	1019·7	+3	63	-3	NW	3	*	o	*	–	81	63				
	Biarritz	1019·9	67	W	4	c	1020·2	0	63	-5	S	3	*	o	3	–	68	61				
	Paris	1012·0	81	SE	2	bc	1016·0	+3	64	-6	SSW	2	–	o	*	–	86	64				
	Belfort	1015·5	76	–	0	c	1018·4	*	66	+3	WSW	4	*	m	*	–	81	59				
	Lyons	1013·5	80	S	2	b	1018·6	*	70	+4	N	2	*	b	*	–	86	61				
	Nice	1016·4	73	E	4	b	1018·0	+2	71	-5	–	0	*	b	2	–	84	64				
	Perpignan ...	1015·4	79	NE	1	b	1019·5	+3	73	+1	NW	2	–	b	*	–	84	64				
	Sanguinaire ...	*	71	W	3	b	*	*	72		SE	2	*	m	2	–	82	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·6	66	N	3	b	1021·9	+1	63	-3	NE	3	–	b	3	–	68	59				
	Madrid (8 a.m.)	1011·4	90	NNW	1	b	1017·9	+2	73	0	E	1	–	b	*	–	93	64				
	Lisbon (9 a.m.)	1017·0	72	NNW	5	f	1016·3	+1	66	0	NNW	3	–	b	5	–	77	63				
	Gibraltar	1016·2	71	E	3	b	1015·9	*	67		E	4	*	o	2	–	79	67				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1016·8	0	72	+2	NNE	1	–	b	1	–	77	68				
	Azores (Horta, 8 a.m.)	1026·0	*	SW	4	b	1023·9	-1	66	+2	SSW	4	*	bc	2	–	75	64				
	Madeira (Funchal)	1019·0	73	NE	3	o	1019·8	+1	68	0	NE	3	–	bc	3	–	73	66				

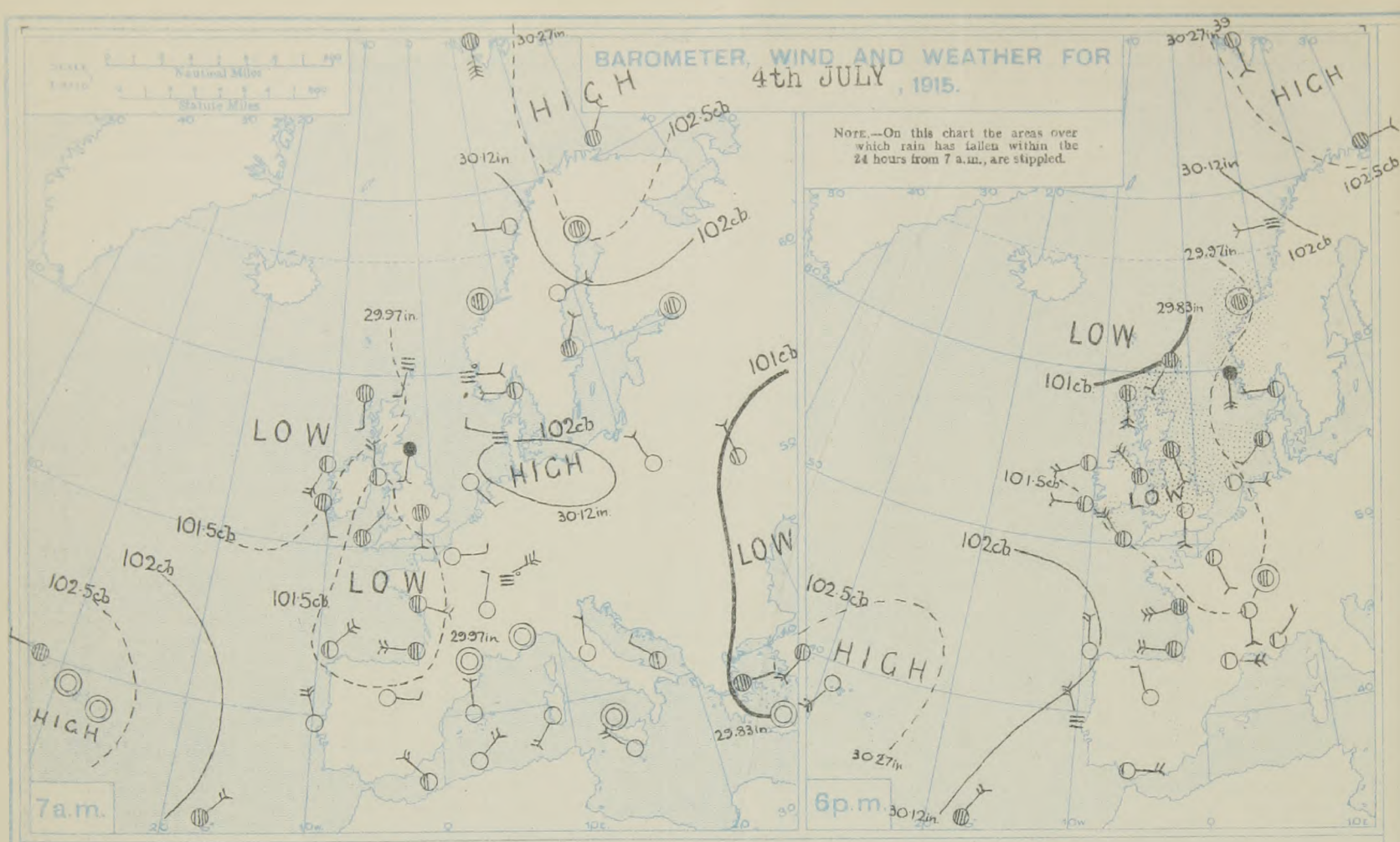
South Farnborough.
Pilot Balloon. 500 metres NNW 11 mph.
2000 metres W 10 mph.

RAINFALL.

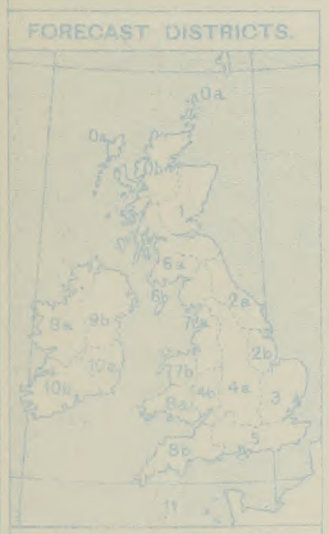
Equivalents of Millimetees. in Inches.

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

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.



STORM WARNINGS.

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

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

No Warnings Issued.

0 {a, b} Light or moderate Southerly winds. Fine at first, some rain later; rather cool.

1 Variable breezes, finally Southerly. Fair at first, some rain later; rather cool

2 {a, b}, 3, 4 {a, b}, 5 Light North-Westerly winds backing later to Westerly or South-Westerly. Fair generally; normal temperature.

6 {a, b} Same as No. 0.

7 {a, b} Light winds backing to South-West or South. Fair to-day, some showers to-morrow; normal temperature.

8 {a, b} Light Westerly to South-Westerly winds; fair generally; normal temperature.

9 {a, b}, 10 {a, b} Light to fresh South-Westerly winds, fair at first, some rain later; normal temperature.

Western Channel and Bay 11 Light Westerly winds, northern part; variable breezes further south. Weather fair generally and sea slight.

FURTHER OUTLOOK.

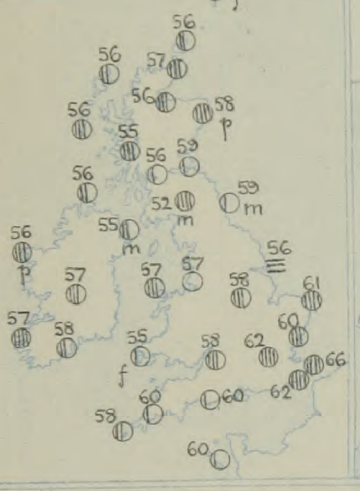
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., MONDAY, 5th JULY, 1915.

GENERAL INFERENCE

A high pressure system will extend temporarily over England from the south-westward. A fresh depression will probably appear shortly off our extreme north-west coasts.

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. ⊤₂ thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

SCALE 1 : 2 : 10°
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

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

Station Date & Hour.		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		South Farnborough		South Farnborough		South Farnborough		South Farnborough		South Farnborough											
		28th.	11.57a.m.	1st July	3.47p.m.	2nd	7.22a.m.	2nd	12.2p.m.	3rd	6.55a.m.										
Heights in Kilometres.	3									+12	0										
	2					+7	0	+7	-5	+5	+2										
	1	+6	+1	+2	0	+3	+3	+3	-1	+8	-1										
	0·5	+6	+4	-1	-1	+6	+2	+6	+3	+4	+3										

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	13	62	52	or.c	bc.b	7·5
	Banff	1	62	56	r.c	bc	3·2
	Carnoustie	2	69	53	o.c	b	7·0
	St. Andrews				*	*	
Eng. N.E.	Harrogate	19	58	54	or	otlr	0·0
	Skegness	μ5	63	58	p.thr	otlr	0·5
Eng. N.W.	Morecambe						
	Blackpool	b	64	54	og.o	o.c.bc	0·8
	Southport	6	62	53	o	op.o	0·2
Midlands.	Buxton	-	57	54	or	otlr	0·0
	Leamington Spa	ε	63	59	c.thr	thp c	0·0
	Malvern	27	64	56	c	thr	0·0
	Ross-on-Wye	11	67	55	othr.o.c	gthr	0·6
Wales.	Rhyl	5	68	53	bc	bc	3·0
	Colwyn Bay	5	68	53	bc	bc	5·2
	Llandudno	3	70	53	c.b	bc	6·0
	Aberystwyth	1	67	57	r.o.c	c.o.c	3·7
	Tenby						
England. E.	Cromer						
	Lowestoft						
	Felixstowe	-	69	62	cm	cm	5·3
	Walton-on-Naze	-	72	61	bc	bc	6·1
	Southend-on-Sea	-	81	62	c.b.bc	bc	7·6
England, S.E.	Tunbridge Wells	-	81	59	bc.bz	bc.bz	9·3
	Margate	-	80	62	b	b	8·7
	Ramsgate	-	75	60	bc	bc	11·5
	Hastings	-	77	61	b	b	11·5
	Bexhill-on-Sea	-	73	60	b	b	10·2
	Eastbourne	-	75	57	b	b	12·0
	Seaford						
	Brighton	-	74	60	bc	bc	10·6
	Worthing	-	73	58	z.b	b	10·1
	Littlehampton	-	71	60	b	b	8·2
	Bognor	-	69	60	o.bc	bc	8·7
	Southsea	-	74	61	b	bc	7·5
	Bournemouth	-	71	55	c.b	b.bc	10·0
England, S.W.	Weymouth	-	72	58	bc.b	b.bcz	10·0
	Torquay	-	71	57	c.bc	bc.c.bc	8·8
	Paignton						
	Falmouth	-	71	58	c.b.bc	b	8·0
	Penzance						
	Newquay	-	66	56	r.c.bc.b	bz	8·0
	Ilfracombe	10	65	59	op.ct	thr.bc	1·0
	Weston-super-Mare ...	36	68	58	o.bc.o	thth.b.	1·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.) ...	41	67	6·4	87	59	51	-	bc	bc	bc.b
City (Bunhill Row)	*	*	6·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)			5·7							
Camden Sq. (Brit. Rainfall)	-	75	5·3	86	59	56	-	-	-	*
Hampstead (Reservoir) ...	*	66	5·2	83	55	45	-	bc	bc	bc
Richmond Park ...	*	*	5·8							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	40	65	5·7							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1600 Joules	27·0 Milliwatts.	62 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	66	53	49	op.b	bc	bc	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	μ1	63	53	54	r	thr.o	thr	0·0
Oxford to 8 p.m.	*	74	59	56	o	cm	c.othr	*
Teignmouth to 9 ,,	-	71	57	56	bc	bc	bct	9·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	84	65	57	c	c	c.bc.b	*

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

5th & 6th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.38 / 3.39	11.57 / 11.58	8.16 / 8.16
Greenwich	3.51 / 3.52	12.4 / 12.5	8.17 / 8.16
Wick	3.16 / 3.18	12.16 / 12.17	9.16 / 9.15
Valencia	4.29 / 4.30	12.45 / 12.46	9.1 / 9.0

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 80° and upwards at several places in the south and east of England and to 84° at Kew. Thunderstorms occurred in many parts of England and Wales and were accompanied locally by extremely heavy rain. At Malvern and Weston-super-Mare there was also a fall of unusually large hail.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 187.

Tuesday, 6th July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1013·0	53	S	2	cmp	1013·1	0	53	+2	S	2	-	f	1	3	58	50	f.bc	cmp	f	*
	Deerness ...	1012·5	56	SE	2	c	1012·2	*	54	-2	SSW	2	-	o	1	-	62	49	bc.c	c	cf.o	7·0
	Stornoway ...	1011·2	58	SSW	6	cg	1011·7	+2	58	+2	SW	3	SW	bc	3	*	63	52	bcg	bcgp	c.cp.bc	8·5
	Castlebay (Barra Isd.)	1011·5	57	SW	4	o	1012·9	+1	56	0	SW	3	SW	b	3	0·3	59	54	c.bc	bc.cp	cmp.c.b	7·1
	Glasgow ...	1014·4	60	SW	3	c	1014·9	0	55	-1	WSW	2	SW	bc	*	-	65	52	c.bc	b.bc.c	bc.b.bc	9·8
	Eskdalemuir ...	1015·1	59	SW	4	bc	1016·5	0	53	+1	SE	2	SW	o	*	-	66	44	cm.c.bc	bc.c	c.bc	8·4
	Malin Head ...	1013·4	60	W	4	bcq	1013·8	0	55	-1	SW	2	-	bc	2	2	61	52	c.bcq	bcq	bc	9·2
	Blacksod Point	1014·7	58	SSW	4	bc	1013·2	-1	55	-1	S	2	SW	cg	2	3	62	52	bcp	bcp	cg.cp	*
	Valencia ...	1017·3	63	SW	2	bc	1009·2	-5	55	-2	NE	4	-	o	4	11	64	54	cp	bc	c.cp	8·0
	Roche's Point	1018·4	62	SW	2	bc	1013·4	*	58	0	SE	3	-	o	3	4	65	54	bcp.c	cp.bc	c.cp	*
	Birr Castle ...	1016·6	62	W	1	bc	1013·8	*	53	-4	E	1	-	o	*	1	66	47	cp	c.bc	c.o	8·7
	Donaghadee ...	1015·0	63	WNW	3	cm	1014·2	-1	58	+3	SW	2	SW	bc	1	-	68	52	cg	cmp	bc.cm	*
	Liverpool (Bidston)	1017·1	62	WNW	2	b	1015·9	-1	59	+2	SE	1	SE	b	1	-	65	51	bm	b	bc	11·9
	Holyhead ...	1016·8	60	SW	4	bcw	1015·5	-1	58	+1	SSW	4	SW	cg	3	-	66	56	cp.bc.b	b.bc.b	bc.c.o	7·6
	Pembroke (St. Ann's)	1019·0	57	W	2	bc	1015·8	-3	57	+2	SE	3	SE	bc	3	-	61	53	f.b	bc	bc	11·0
	Scilly (St. Mary's)	1019·7	64	WNW	1	c	1014·4	-2	59	+1	SSE	4	S	bc	4	-	66	57	bc	bc	c	12·5
	Falmouth ...	1018·6	63	WNW	3	bc	1015·2	-2	60	0	SSE	3	-	bc	3	-	68	55	b.bc	bc	bc	13·2
	Jersey (St. Aubin)	1020·2	64	WNW	3	b	1017·4	*	62	+2	SSW	2	-	b	2	-	66	56	bc	bc.b	b	12·8
	Portland Bill ...	1017·3	59	WSW	4	b	1016·9	-1	60	0	-	0	-	b	2	-	62	57	c.bc	bc.b	bc.b	*
	Dungeness ...	1017·1	61	SW	5	b	1017·3	0	57	-5	SW	3	-	o	2	-	68	55	o.c.bc	bc.b	bo.cf.o	*
	Dover	1017·1	61	SW	4	b	1017·7	0	56	-10	SW	3	-	m	3	-	71	55	o.c.bc.b	b.bc.b	b.bc.cm	8·1
NORTHERN EUROPE.	Wick	1012·7	57	ENE	1	c	1012·5	+2	53	-4	-	0	-	c	1	0·1	59	50	bc.cm	cm	cm.bcp	*
	Nairn	1011·7	66	W	1	bc	1012·5	*	60	+4	W	3	-	bc	2	-	70	49	c.bc	bc	cf.c	10·3
	Aberdeen ...	1012·9	57	SE	1	cu	1013·7	+1	59	+1	SW	1	-	b	1	11	66	48	ondr	bc.cm	cup.b	5·0
	Leith	1013·8	66	WSW	2	b	1015·0	+1	59	0	WSW	2	W	bc	*	-	69	52	b.bc	bc.b	b.bc.b	*
	Tynemouth ...	1013·7	63	WNW	3	bc	1016·3	+1	57	-2	W	1	-	bm	2	-	71	51	bc	bc	bm	*
	Spurn Head ...	1015·8	65	WNW	4	bc	1016·7	+4?	58	+2	WNW	2	-	bc	3	-	?71	54	bcm	bcm	bc	0·0
	Yarmouth ...	1016·6	62	SE	3	bcm	1017·3	+1	62	+1	N	2	-	c	1	-	69	55	o.bcm	bcm	bc	6·6
	Clacton-on-Sea	1016·2	66	S	3	bc	1017·2	0	62	+2	ESE	1	-	cg	0	-	75	56	c.bc.c	c.o.bc	bc.cg	9·8
	Nottingham ...	1016·0	66	W	2	c	1017·0	*	0	0	S	1	S	b	*	-	78	50	c.bc	c	bc.b	8·9
	Bath	1017·3	68	W	2	b	1016·6	*	60	+2	-	0	W	c	*	-	72	54	c.bc	bc.b	b.bc.c.o	11·7
	Sth Farnborough	1016·6	69	WSW	3	bc	1016·2	+1	59	-2	W	1	W	bc	*	-	78	52	bc	bc	bc.b.o.bc	9·2
	London (Kew Obsy.)	1016·5	72	SW	3	bc	1016·9	0	58	-4	WSW	1	SW	o	*	-	77	55	o.bc.c.bc	bc	bc.c.o	8·2
	Spitsbergen ...	1025·6	39	-	0	c	1025·3	0	34	-3	NW	2	*	m	*	*	41	32				
	Vardö	1025·0	39	SE	3	o	1022·9	+4	41	-2	E	2	-	o	2	*	43	39				
	Bodö	1012·7	50	E	2	bc	1013·2	+3	50	+5	SW	4	-	o	2	2	63	?45				
	Christiansund	1013·7	52	W	2	r	1013·5	-1	48	-9	W	2	-	r	2	15	57	48				
	Skudesnaes ..	1012·8	52	NNW	3	o	1014·7	+2	50	-4	WNW	2	-	f	1	13	54	50				
	Færder (X'tania Fjord)	1012·4	63	S	1	o	1010·1	0	59	-4	SSE	2	-	o	1	22	64	59				
	The Scaw (Skagen)	1011·3	59	N	1	o	1010·6	+2	63	0	WNW	2	-	m	3	17	66	57				
	Blaavands Huk	1010·3	66	N	1	fbr	1016·2	+3	55	-6	WNW	3	-	o	3	3	72	54				
	Haparanda ...	1018·7	64	S	2	b	1018·3	0	63	+2	SSW	2	-	bc	*	-	70	52				
	Hernösand ...	1017·9	61	SE	2	bc	1016·7	0	61	0	S	2	-	b	*	-	63	57				
	Stockholm ...	1017·3	68	S	2	b	1015·8	-2	72	+2	SSE	2	-	b	*	-	73	55				
	Wisby	1017·5	66	-	0	b	1015·5	-2	73	+7	S	2	-	b	*	-	75	64				
	Karlstad	1015·3	75	-	0	bc	1012·4	?	63	-1	SE	4	-	o	*	1	79	61				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1016·2	59	W	3	o	1018·1	0	61	-11	S	1	-	c	1	-	72	54				
	C. Gris Nez ...	1018·1	61	S	4	bc	1017·7	+2	58	-3	S	5	*	o	3	-	66	55				
	La Hève	1019·8	64	NNW	3	b	1018·7	*	61	+2	SSE	2	*	b	2	-	77	55				
	Ushant	1020·7	61	NW	2	o	1016·2	*	59	-2	S	2	*	c	3	-	70	52				
	Brest (St. Mathieu)	1023·1	64	W	2	bc	1017·5	-2	59	-2	SSE	3	*	c	2	-	77	57				
	Rochefort (Ile d'Aix)	1020·0	66	WNW	4	c	1017·0	-1	64	+1	WSW	1	*	o	*	-	82	61				
	Biarritz	1019·1	68	NNW	3	o	1015·9	-1	67	+4	NE	1	*	b	2	-	70	63				
	Paris	1018·6	70	N	2	c	1018·7	+1	63	-1	ENE	1	W	o	*	-	79	57				
	Belfort	1019·7	72	WSW	6	c	1019·9	*	65	-1	ENE	4	*	c	*	-	77	58				
	Lyons	1018·7	73	N	2	o	1018·1	*	70	0	NNW	1	*	bc	*	-	82	59				
	Nice	1018·4	70	-	0	b	1019·5	+2	68	-3	-	0	*	b	1	-	77	61				
	Perpignan ...	1017·6	77	E	2	b	1017·5	+1	68	-5	ENE	2	-	c	*	-	86	59				
	Sanguinaire ...	*	71	N	2	bc	*	*	73	+1	E	1	*	m	1	-	82	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·2	68	NNE	6	b	1017·7	0	61	-2	ENE	2	-	b	3	-	68	55				
	Madrid (8 a.m.)	1011·7	90	-	0	b	1015·7	+1	73	0	E	2	-	b	*	-	93	66				
	Lisbon (9 a.m.)	1015·3	73	NW	5	b	1016·3	+2	66	0	NNW	4	-	b	5	-	79	63				
	Gibraltar	1015·6	72	E	5	o	1014·9	*	73	+6	E	5	*	c	2	-	75	67				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1019·9	0	73	+1	NNE	2	-	b	1	-	81	70				
	Azores (Horta, 8 a.m.)	1024·2	*	SW	5	b	1023·9	0	68	+2	S	4	*	o	2	-	75	66				
	Madeira (Funchal)	1019·8	73	NE	3	bc	1020·3	0	68	0	NE	3	-	b	2	-	75	64				

South Farnborough
Pilot Balloon Ascent at about 7 a.m.
Wind at 500 metres WSW 7 mph.
" " 2000 " S 10 mph.

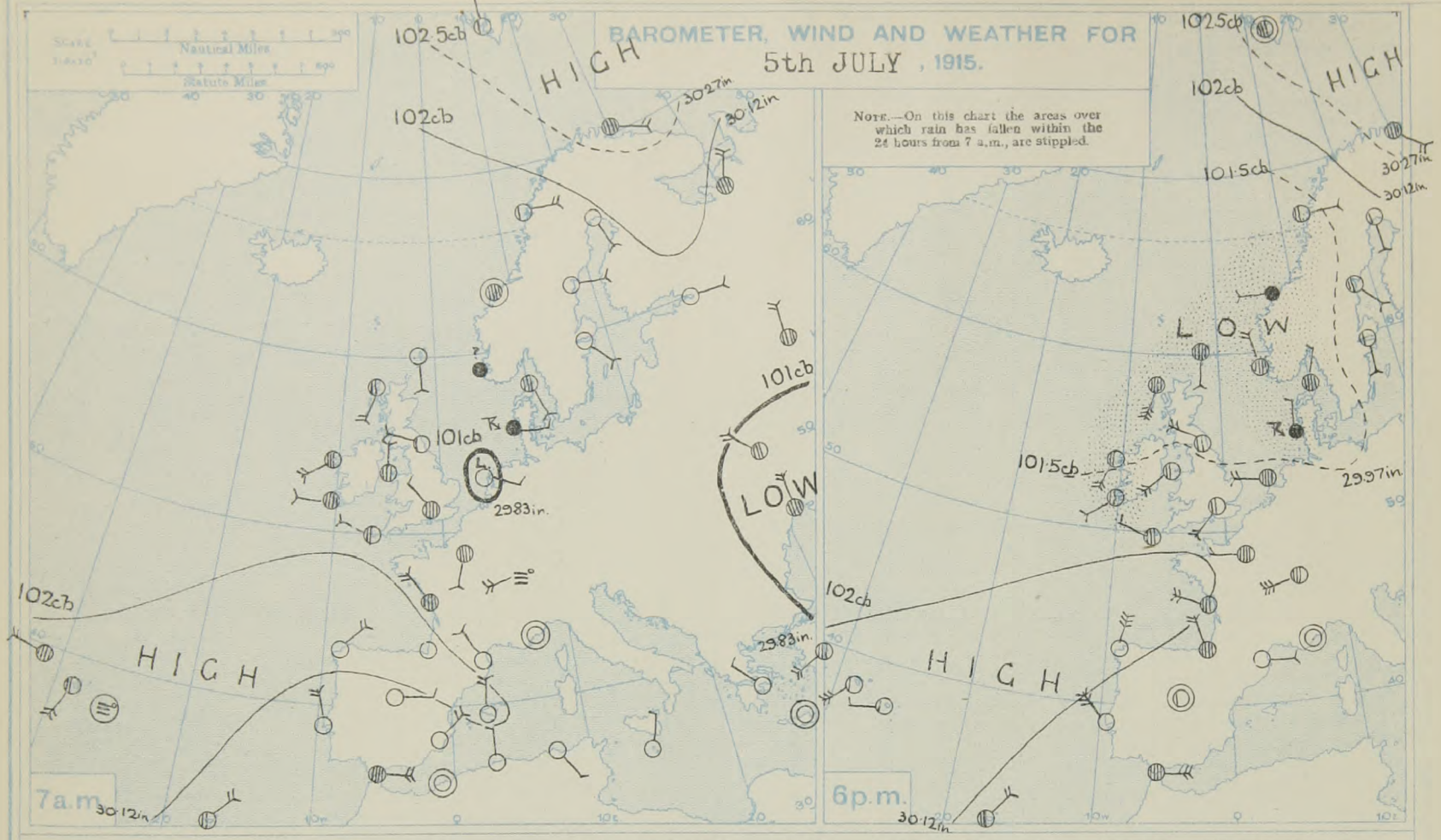
RAINFALL.

Equivalents of Millimetres in Inches.

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

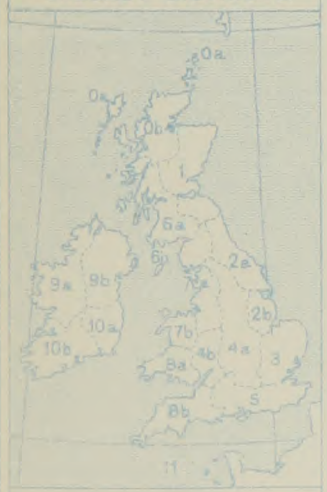
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 5th JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 (a, b), 1 — Light South-Westerly to Southerly winds; fair generally; hazy in places; moderate temperature.

2 (a, b), 3, 4 (a, b), 5 — Light to moderate Southerly and South-Easterly winds; fine to-day, some rain to-morrow, thunder locally; air warm and close.

6 (a, b) — Same as Nos. 0 to 2.

7 (a, b) — Light or moderate South-Easterly winds, fair at first, some rain later, thunder locally; moderate temperature.

8 (a, b) — Moderate or fresh South-Easterly winds, dull, some rain, thunder locally, moderate temperature.

9 (a, b) — Same as No. 7.

10 (a, b) — Moderate Easterly to Northerly winds; dull, some rain; moderate temperature.

11 — Variable breezes, finally South-Westerly, with a moderate sea; cloudy, some rain, thunder locally; moderate temperature.

FURTHER OUTLOOK.

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

W. NAPIER SHAW, Director

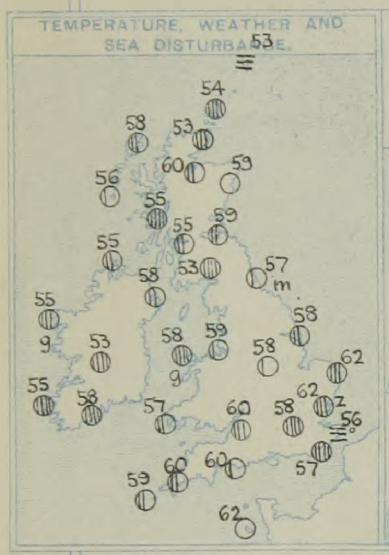
Millibars / inches: 1050—31, 1040, 1030, 1020—30, 1010, 1000, 990, 980, 970—29

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 6th JULY, 1915.

GENERAL INFERENCE

The depression which is approaching our south-west coasts will spread north-eastwards and will occasion rain in most of the English and Irish districts, thunder locally.

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 ≈≈≈

102·5cb. HIGH 30·27in.

102cb. 30·12in.

101·5cb.

50° 60° 70°

Barometer rising

Barometer falling

LOW

101cb.

101·5cb

102cb

HIGH

30·12in.

29·97in.

29·83in.

101·5cb.

Scale 1:12×10⁶
Nautical Miles 0 100 200 300 400 500
Statute Miles 0 100 200 300 400 500

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Tuesday, 6th July 1915.

REPORTS FOR YESTERDAY.

5th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1019·5	63	NNE	2	bc	1019·9	0	61	+6	SSE	2	-	b	%	-	68	50
Hernosand	1018·6	68	-	0	b	1019·4	0	61	0	E	2	-	b	%	-	64	50
Stockholm	1016·0	68	SE	2	0	1017·6	0	70	+7	SE	2	-	b	*	-	72	55
Wisby	1017·0	66	NNE	2	c	1018·3	?	66	+3	S	2	-	b	*	-	70	55
Karlstad	1015·9	73	S	2	b	1016·6	0	64	+1	SE	4	-	bc	*	-	77	54
Petrograd	1017·0	64	NE	1	b	1019·1	+1	59	-2	E	2	-	b	%	-	70	52

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	62	50	c	bc	8·6
	Banff	4	63	50	bc	10 p.c	0·9
	Carnoustie	-	72	48	*	*	10·3
	St. Andrews	-	70	48	*	*	9·9
Eng. N.E.	Harrogate	1	69	51	o.c.bc	bc.b	8·8
	Skegness	1	72	54	o bc	bc.c	7·7
Eng. N.W.	Morecambe	-	65	51	b	b	9·4
	Blackpool	-	64	47	bc.b	b	11·9
	Southport	-	63	51	c.bc.b	b	12·4
Midlands.	Buxton	21	64	51	bc	bc	5·3
	Leamington Spa	12	71	59	c.bc	bc.cp	6·1
	Malvern	2	69	54	bc	bcp.b	7·0
	Ross-on-Wye	1	73	51	bc.c	bc	9·2
Wales.	Rhyl	1	65	48	b	b	10·3
	Colwyn Bay	-	66	51	bc	b	9·0
	Llandudno	-	69	54	b	b	9·5
	Aberystwyth	-	64	54	o.c	c.bc	6·7
	Tenby	-	68	52	b	bc	11·0
England. E.	Cromer	-	69	56	om.c	c.bc.c	4·1
	Lowestoft	9	69	57	c.bc.c	c	8·2
	Felixstowe	3	75	57	bc	bc	7·9
	Walton-on-Naze	1	73	57	c.bc	bc	8·3
	Southend-on-Sea	-	78	59	c.bc	3 bc	4·3
England. S.E.	Tunbridge Wells	-	76	58	bc.b	bc.b	8·0
	Margate	-	72	59	c bc.c	bc.c	4·0
	Ramsgate	-	71	58	bc	cg bc	3·5
	Hastings	-	71	60	o.bc.b	bc	8·3
	Bexhill-on-Sea	-	71	59	c	b	8·0
	Eastbourne	-	70	59	o bc.b	b	9·0
	Seaford	-	74	58	b	b	10·0
	Brighton	-	72	58	c bc	b.bc	10·5
	Worthing	-	72	57	b	b	11·7
	Littlehampton	-	71	62	b	b	10·3
	Bognor	-	70	57	b	b	11·5
	Southsea	-	73	65	bc	bc	10·3
	Bournemouth	-	71	56			11·0
England. S.W.	Weymouth	-	71	56	bc.b	b	12·0
	Torquay	-	70	53	bc	bc.c	8·6
	Paignton						
	Falmouth	-	68	55	b.bc	bc	12·6
	Penzance						
	Newquay	-	63	57	bc.bv	bv	9·8
	Ilfracombe	-	65	57	bc.b	b.bc	11·3
	Weston-super-Mare	-	66	55	b	b	12·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	40	66	9·1	81	52	41	-	bc	bc	bc.c.o
City (Bunhill Row)	*	*	8·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)			9·1							
Camden Sq. (Brit. Rainfall)	39	70	9·1	80	56	52	-	bc	bc	*
Hampstead (Reservoir)	*	71	8·8	76	56	38	-	bc	bc	om
Richmond Park	*	*	9·9							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	45	65	9·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1863 Joules	31·5 Milliwatts.	86 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,								*
Birmingham ,,	1	70	53	42	o.c.o	c	c	5·1
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	70	55	52	bc	bc	bc	6·8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	78	60	56	bc.b	bc.b	bc.b	*

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

6th & 7th July. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·39 / 3·40	11·53 / 11·58	8·16 / 8·15
Greenwich	3·52 / 3·53	12·5 / 12·5	8·16 / 8·16
Wick	3·18 / 3·19	11·17 / 12·17	8·15 / 8·16
Valencia	4·30 / 4·31	12·46 / 12·48	9·0 / 9·0

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 70° and 75° at many of the English stations and reached 78° at South Kensington, South Farnborough and Southend-on-Sea. Showers fell at several of the western and northern stations, and a thunderstorm occurred at Aberdeen.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 188 { Wednesday, 7th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·5	59	SW	1	bc	1013·9	−1	51	−2	ESE	1	–	f	1	–	59	50	f	f.bc	bcf	4·1
	Deerness ...	1013·5	59	SSW	1	c	1011·8	*	55	+1	ENE	2	–	oz	0	–	64	52	o.c	e.bc.c	c.o	4·1
	Stornoway ...	1012·9	55	NE	2	op	1012·2	0	54	−4	NE	4	–	bcq	4	7	61	47	c.op.c	c.op	bcq	4·0
	Castlebay (Barra Isd.)	1012·6	60	WNW	2	c	1010·6	0	55	−1	N	3	–	c	3	–	62	53	bc	c.bc	c.bc	13·8
	Glasgow ...	1012·1	63	NW	1	or	1006·6	−3	55	0	NE	3	E	o	*	3	67	53	c.odp.o	odp.c.o	op.o	3·6
	Eskdalemuir ...	1011·6	63	E	3	cm	1008·1	−6	55	+2	NNE	5	–	oz	*	5	68	51	o.c	cm	cm.cur	8·1
	Malin Head ...	1011·3	58	NE	2	cq	1007·3	−2	55	0	E	6	–	omrq	5	3	60	53	cq	cq	omrq	1·0
	Blacksod Point	1009·4	57	NNE	*	cp	1009·7	+3	56	0	N	5	NE	cm	4	3	62	52	op	cp	omd.cp	*
	Valencia ...	1000·7	58	E	4	o	1009·6	+4	55	0	NNW	3	–	oq	3	18	60	53	or.qp	oqp	or.p	0·0
	Roche's Point	1004·5	56	ESE	5	r	1005·6	*	53	−5	NNW	4	–	r	4	44	58	52	r.o	r	r	*
	Birr Castle ...	1007·6	53	E	1	r	1005·6	*	53	0	NW	1	–	r	*	20	59	51	o	o.or	or	0·0
	Donaghadee ...	1011·3	59	SW	3	omp	1004·2	−3	52	−6	NNE	4	–	omr	4	6	61	52	cm	cm	omr	*
	Liverpool (Bidston)	1008·9	66	ESE	2	o	1001·5	−2	54	−5	–	0	–	r	1	9	71	53	bc	c.oq	or	6·3
	Holyhead ...	1009·7	57	NE	2	omp	1001·7	−1	56	−2	N	1	–	orf	0	3	66	55	o.c.bc.c	c.o.op	odp.r	5·9
	Pembroke (St. Ann's)	1007·8	58	SE	2	c	1001·0	+2	56	−1	NE	3	E	cmdp	3	9	63	54	bc	bc	c	4·8
	Scilly (St. Mary's)	1003·4	57	SSE	6	omqr	1001·6	?+5	57	−2	NW	6	NW	op	7	19	64	55	omr	omr	mqr.cp	3·3
	Falmouth ...	1007·0	57	SSE	4	r	998·3	+3	58	−2	NW	7	NW	c	5	13	64	54	bc	bc.or	rq.p.cq	6·2
	Jersey (St. Aubin)	1010·0	68	SW	2	oq	1007·1	*	60	−2	SW	5	SW	c	3	Trace	73	57	bc	c.oq	oqp.cq	6·1
	Portland Bill ...	1008·3	59	E	4	orc	1002·2	−4	57	−3	SSW	5	SW	c	5	10	64	55	b.bc	bc.c	or.c.bc	*
	Dungeness ...	1012·0	63	ESE	3	or	1006·6	+1	59	+2	SW	6	SW	bc	6	1	66	56	o.bc	bc.c.o	op.bc	*
	Dover	1012·7	63	SE	1	c	1007·7	+1	60	+4	SSW	6	–	b	5	1	70	55	m.c.bc	b.bc.c	cp.r.b.	6·7
	Wick	1013·5	56	NE	1	c	1011·4	−1	53	0	–	0	–	m	1	1	63	51	cp.omq	om.q.c	c.om	*
	Nairn	1012·1	66	–	0	cu	1010·1	*	57	−3	E	2	–	ou	2	0·1	68	53	bc.cq	c.bc.c	d.cu	6·2
	Aberdeen ...	1013·0	61	S	4	bc	1009·2	−3	57	−2	NE	3	E	c	2	3	68	51	bc.omp	c.bc	bc.c	9·2
	Leith	1011·2	64	NE	2	c	1005·9	−3	57	−2	NE	3	–	o	*	0·1	66	56	bc.cp.c	c	o	*
	Tynemouth ...	1013·0	58	SE	3	cm	1001·1	−7	57	0	ENE	3	–	omr	4	8	65	55	bc	bc	omr	*
	Spurn Head ...	1011·5	62	ESE	4	f	1001·1	−2	57	−1	SW	5	–	cqp	4	22	67	53	bc	f	cm	9·5
	Yarmouth ...	1013·3	62	SE	4	c	1004·0	+1	61	−1	SW	6	SW	o	4	9	65	58	cm.bm	bm.c	omtbr.	11·3
	Clacton-on-Sea	1012·3	66	SE	2	bc	1005·5	0	61	−1	SSW	6	SW	bc	4	1	68	59	cz.bc	bc	ogr.bc	8·5
	Nottingham ...	1010·6	66	E	2	o	1001·0	*	59	+1	SW	3	SW	c	*	17	74	55	b.bc	bc.o	ogr	5·7
	Bath	1009·5	67	SE	1	o	1001·6	*	58	−2	SW	1	SW	o	*	11	72	55	c.bc.bo	bc.c.o	r.op	6·8
	Sth Farnborough	1010·2	68	SE	3	o	1003·9	−1	59	0	S	5	–	r	*	18	73	56	bc	bc	or.o.bc	7·7
	London (Kew Obsy.)	1010·9	71	SSE	2	c	1004·5	0	61	+3	SW	5	–	ou	*	27	76	58	o.bc.c.bc	bc.cr.c	c,outbrau	7·8
NORTHERN EUROPE.	Spitsbergen ...	1024·3	36	SW	1	f	1022·7	−1	32	−2	–	0	*	f	*	*	37	30				
	Vardö	1019·3	43	SE	2	o	1016·8	0	54	+13	SSE	1	–	o	1	*	?54	37				
	Bodö	1010·6	59	–	0	r	1015·8	+3	48	−2	SW	1	–	r	1	5	59	46				
	Christiansund	1016·2	52	–	0	c	1015·4	0	54	+6	NNE	2	–	c	1	12	54	48				
	Skudesnaes ..	1016·0	52	WNW	2	f	1013·7	−1	54	+4	–	0	–	f	1	–	55	46				
	Færder (X'ianiaFjord)	1011·7	64	SW	1	bc	1014·9	+1	57	−2	NNE	2	–	f	2	–	64	57				
	The Scaw (Skagen)	1014·9	59	W	5	b	1015·7	0	59	−4	SW	1	–	b	1	..	64	50				
	Blaavands Huk	1018·3	63	WNW	1	b	1012·4	−4	66	+11	SE	4	S	c	2	–	66	48				
	Haparanda ...	1017·3	66	S	2	b	1017·1	0	63	0	–	0	–	o	*	1	70	59				
	Hernösand ...	1014·3	61	SSE	4	b	1014·4	0	59	−2	–	0	–	m	*	6	68	54				
	Stockholm ...	1013·7	63	SE	2	o	1014·9	+1	64	−8	WSW	2	–	c	*	4	75	55				
	Wisby	1013·7	70	S	2	c	1016·3	0	64	−9	WNW	2	–	b	*	–	77	59				
	Karlstad	1012·2	66	S	4	c	1015·4	+3	59	−4	–	0	–	o	*	4	72	54				
	Petrograd (8 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015·1	68	NE	2	bc	1006·1	+1	63	+2	SSW	5	–	b	3	3	70	61				
	C. Gris Nez ...	1011·9	64	ENE	3	o	1007·8	+2	60	+2	SW	6	*	b	5	–	70	58				
	La Hève	?	70	SSW	4	o	?	*	59	−2	SSW	5	*	bc	5	–	79	54				
	Ushant							*					*									
	Brest (St. Mathieu)	1009·1	64	S	5	r	1008·2	+2	59	0	W	6	*	o	5	2	77	57				
	Rochefort (Ile d'Aix)	1013·5	64	NW	4	c	1017·5	+1	64	0	WSW	5	*	c	*	–	72	61				
	Biarritz	1015·1	68	W	3	o	1020·6	+3	63	−4	NW	2	*	f	2	2	77	63				
	Paris	1010·9	77	ESE	1	o	1013·6	+2	68	+5	SW	4	–	c	*	–	81	59				
	Belfort	1014·1	79	W	2	c	1017·3	*	69	+4	W	5	*	c	*	–	85	65				
	Lyons	1013·7	79	S	4	b	1018·6	*	68	−2	S	1	*	c	*	–	83	64				
	Nice	1018·9	70	SW	2	b	1020·3	+2	68	0	–	0	*	bc	0	–	81	61				
	Perpignan ...	1013·7	82	NE	1	b	1019·4	+3	73	+5	–	0	–	b	*	–	86	63				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017·5	72	WSW	5	o	1023·3	+3	63	+2	ENE	2	–	b	3	?	75	57				
	Madrid (8 a.m.)	1010·7	90	WSW	1	b	1016·2	+3	75	+2	E	1	–	b	*	–	93	64				
	Lisbon (9 a.m.)	1016·6	73	NNW	4	b	1017·3	0	64	−2	NNW	5	N	b	2	–	81	64				
	Gibraltar	1015·2	73	E	5	b	1016·2	*	71	−2	SE	2	*	bc	2	–	79	67				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1020·7	0	73	0	NNW	1	–	b	0	–	79	70				
	Azores (Horta, 8 a.m.)	1024·6	*	–	0	0	1025·0	0	68	0	–	0	*	bc	2	1	77	66				
	Madeira (Funchal)	1019·9	73	NE	3	bc	1021·5	+2	68	0	NE	3	–	bc	3	–	75	66				

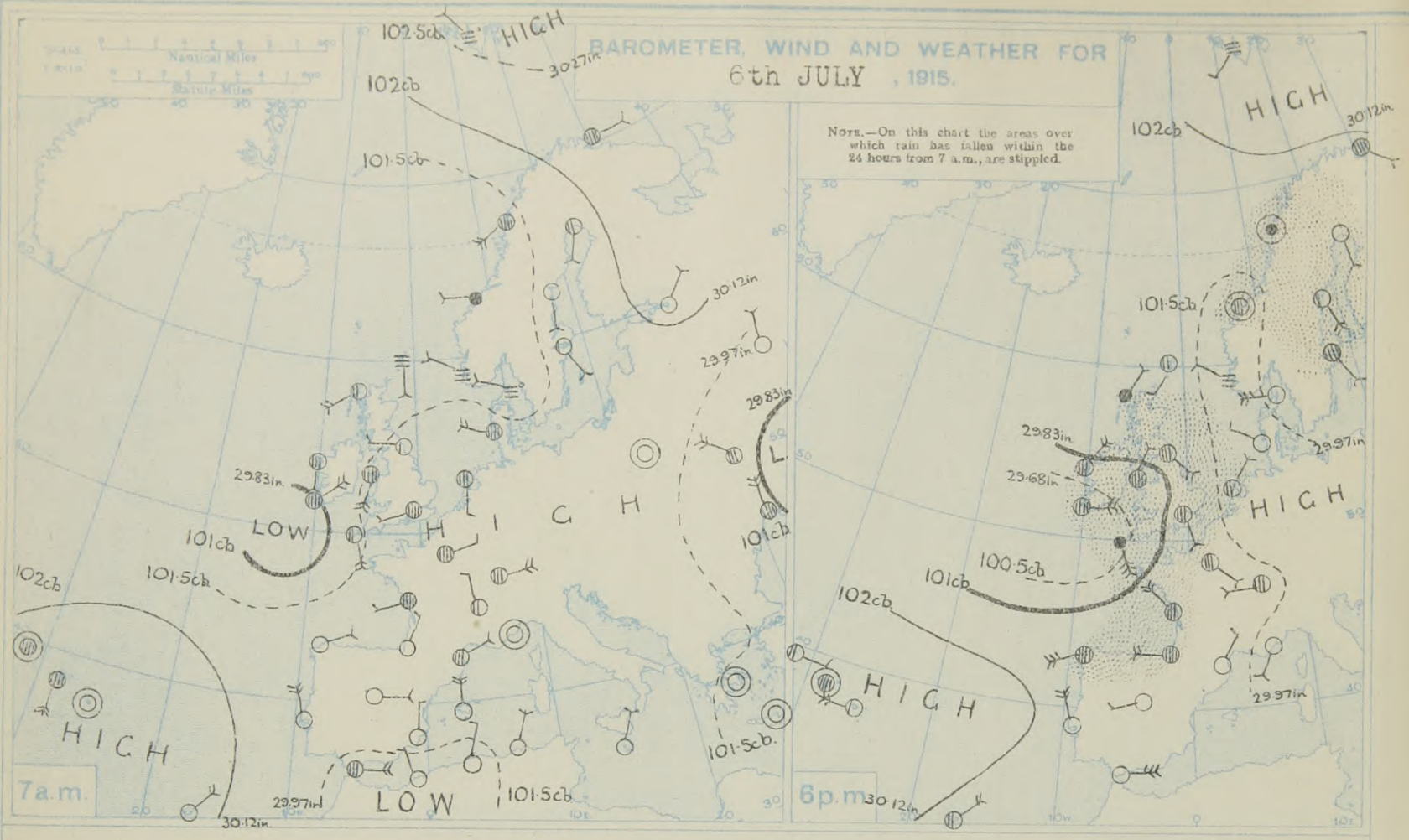
GALES.

Duration and Extreme Force in British Islands.

Scilly.
7th 3a.m.–5a.m. W 8.

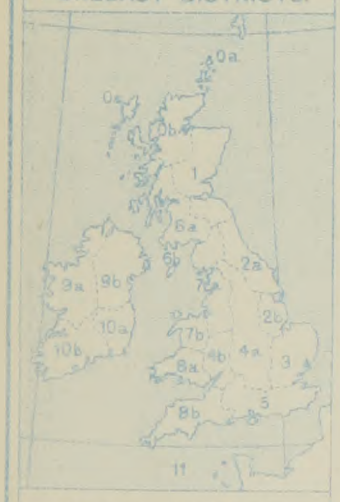
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 6th JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



0 a, 0 b, 1, 2 a, 2 b	Freshening North-Easterly to Northerly winds; cool, changeable, occasional rain.
3, 4 a, 4 b, 5	Fresh or strong South-Westerly to Westerly winds, squally, showery, thunder locally; becoming cooler.
6 a, 6 b	Same as Nos. 0 to 2.
7 a, 7 b	Freshening Northerly winds; cool, changeable, some showers, thunder locally.
8 a, 8 b	Northerly and North-Westerly winds, strong at first, but moderating later; cool, changeable, some showers, thunder locally.
9 a, 9 b	Light or moderate Northerly winds; showery at first,
10 a, 10 b	improving later; cool.
11	Fresh or strong North-Westerly winds and a rough sea; showery at first, improving later, cool.

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

W. NAPIER SHAW, Director

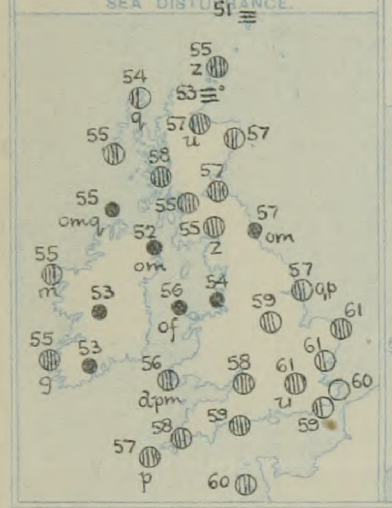
Millibars 1050 1040 1030 1020 1010 1000 990 980 970 — Inches 31 30 29

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 7th JULY, 1915.

GENERAL INFERENCE

The depression over England will move slowly north-east across the North Sea, but changeable showery weather will continue to prevail for the present over the United Kingdom generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

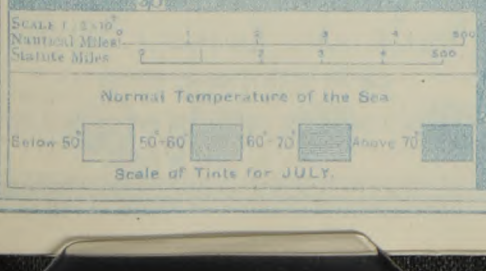
BAROMETER.—Isobars are drawn for intervals of five millibars.

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. ϒ, thunder.
ϒ, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.



HIGH

102cb

30·12in.

Barometer steady

29·97in.

101·5cb

Bar. rising

101cb.

Barometer falling

101cb

100·5cb

LOW

102cb

HIGH

30·12in.

HIGH

102cb.

DAILY WEATHER REPORT. Wednesday, 7th July 1915.

REPORTS FOR YESTERDAY. 6th July	STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
	Petrograd	1019·5	64	NNE	2	b	1021·1	+1	61	+2	NE	2	-	b	*	-	68	54

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	4	64	52	[illegible]	c. bc	2·6
Scotland.	Banff	1	65	46	bc	p. ort	5·7
Scotland.	Carnoustie	-	69	48	bc. o	o. c	9·0
Scotland.	St. Andrews	-	68	49	*	*	8·4
Eng. N.E.	Harrogate	-	69	47	b. bc. c	bc. c. o	8·9
Eng. N.E.	Skegness	-	64	53	bc	bc. om	8·8
Eng. N.W.	Morecambe	-	71	50	b. bc. b	b. bc. o	7·3
Eng. N.W.	Blackpool	-	71	48	c. bc	c. o	6·0
Eng. N.W.	Southport	-	71	48	c. bc	c. o	6·0
Midlands.	Buxton	-	67	42	bc	bc	5·1
Midlands.	Leamington Spa	-	73	54	c. bc	bc. c	9·2
Midlands.	Malvern	-	70	52	bc	bc	7·0
Midlands.	Ross-on-Wye	-	71	48	b. bc	bc. o	5·2
Wales.	Rhyl	-	70	49	bc	bc. op	5·3
Wales.	Colwyn Bay	-	66	53	b	b. bc. o	6·4
Wales.	Llandudno	-	66	52	b	b.	7·1
Wales.	Aberystwyth	-	65	50	o. c	c. bc	6·0
Wales.	Tenby	-	65	49	bc	o	5·2
England. E.	Cromer	1	69	54	o. cmbc	bcm. c	8·1
England. E.	Lowestoft	-	66	55	bc. c	c. om. c	10·0
England. E.	Felixstowe	-	66	55	c	b	8·0
England. E.	Walton-on-Naze	-	68	55	c. b.	b. bc	7·9
England. E.	Southend-on-Sea	-	76	59	b. b. bc. b	b. bc	9·3
England. S.E.	Tunbridge Wells	-	73	53	bc	b. bc. o	6·1
England. S.E.	Margate	-	73	56	bc	bc	6·9
England. S.E.	Ramsgate	-	69	55	o. bc	b. bc	7·4
England. S.E.	Hastings	-	68	55	o. bc. b.	b. bc	7·7
England. S.E.	Bexhill-on-Sea	-	66	56	c	c	8·0
England. S.E.	Eastbourne	-	65	60	o. b	b. o	8·4
England. S.E.	Seaford						
England. S.E.	Brighton	-	66	58	b. bc	bc. c. o	6·5
England. S.E.	Worthing	-	68	54	b	bc. o	7·7
England. S.E.	Littlehampton	-	69	58	b	bc	7·9
England. S.E.	Bognor	-	66	53	bc	bc	7·2
England. S.E.	Southsea	-	68	57	b	o	6·9
England. S.E.	Bournemouth	-	67	53	b. bc	c. bc. o	7·3
England. S.W.	Weymouth	-	71	53	b. bc	c. o	7·4
England. S.W.	Torquay	-	64	54	bc	c. op	7·6
England. S.W.	Paignton	1	64	52	b. bc	bc p.	7·5
England. S.W.	Falmouth	-	64	56	bc	bc or	6·0
England. S.W.	Penzance	4	65	56	bc	bc. or	4·6
England. S.W.	Newquay	2	64	53	b. bc. cv	c. omr	5·0
England. S.W.	Ilfracombe	-	69	55	b. bc. c	c. o	5·7
England. S.W.	Weston-super-Mare	-	71	51	b	b. bc. o	6·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	47	87	7·0	79	56	53	16	bc	bc. c	c. or
City (Bunhill Row)	*	*	5·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	47	91		75	57	55	21	bc	bc	or. ou
Camden Sq. (Brit. Rainfall)	46	85	6·8	79	57	54	20	om. bc	bc	*
Hampstead (Reservoir)	*	89	7·3	74	54	45	20	bc	bc. or	or. o
Richmond Park	*	*	8·2							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	46	86	7·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1760 Joules	29·8 Milliwatts.	78 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	*							*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,	-	71	52	43	o	o. c	c	5·9
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	2	64	53	52	bc. b	b. bc	bc. cr	7·2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	78	58	50	b. bc	bc. b	b. bc. c	*

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

7th & 8th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·40 / 3·41	11·58 / 11·58	8·15 / 8·13
Greenwich	3·53 / 3·54	12·5 / 12·5	8·16 / 8·16
Wick	3·19 / 3·20	12·7 / 12·7	9·44 / 9·43
Valencia	4·31 / 4·32	12·46 / 12·46	9·0 / 8·59

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 70° and 75° at several of the English stations and reached 78° at South Kensington. Rain fell generally, heavily at many places in the west and south and thunderstorms occurred locally in various parts of England and Wales.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 189. { Thursday, 8th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1011·8	52	NE	3	om	1011·1	·0	52	+1	N	4	–	og	4	–	55	49	f.om	om	og	*
	Deerness ...	1010·5	52	NE	4	z	1011·2	*	53	−2	N	5	SE	c	3	–	58	50	of	f o	o c	1·7
	Stornoway ...	1011·9	57	NE	6	oq	1015·9	+2	53	−1	N	5	–	oq	4	–	61	51	bcq	bc.oq	oq	8·4
	Castlebay (Barra Isd.)	1010·6	57	NNW	5	c	1016·3	+3	55	0	N	4	–	op	4	–	60	54	c.o	o.bc	c.op	8·8
	Glasgow ...	1004·8	51	NNE	4	ogd	1012·4	+5	55	0	WNW	2	N	c	*	3	58	52	od	r	d.o.c.bc	0·0
	Eskdalemuir ...	1000·4	53	NNE	6	oq	1010·1	+4	54	−1	N	5	W	bc	*	17	56	50	oq.or	o.rq	oq.orq	0·0
	Malin Head ...	1008·6	55	NE	6	cq	1015·4	+4	54	−1	N	5	N	cq	5	1	57	53	cqp	cq	omqp	3·0
	Blacksod Point	1014·2	56	N	6	bc	1018·6	+4	54	−1	N	6	N	cp	4	1	58	50	cmp	bc	bc cm	*
	Valencia ...	1015·5	58	NW	4	o	1020·5	+3	57	+2	NW	3	NW	c	4	4	61	54	op	op	o.cp.c	0·6
	Roche's Point	1013·7	56	NNW	4	r	1019·0	*	55	+2	NNW	3	–	c	2	2	58	52	r.o	or	r c	*
	Birr Castle ...	1011·7	55	NW	1	r	1017·5	*	53	0	W	1	–	o	*	6	56	51	or	or	o	0·0
	Donaghadee ...	1005·4	54	N	4	omp	1013·1	+3	54	+2	NNW	4	NW	bcm	4	5	56	52	omr	omr om	om bcm	*
	Liverpool (Bidston)	999·8	56	W	6	o	1010·8	+5	57	+3	NW	4	W	o	4	10	57	53	or	orq	oq	0·0
	Holyhead ...	1004·5	56	NW	6	omr	1013·6	+5	55	−1	NW	6	–	om	5	7	57	53	or omp	omr	op.oc.o	0·0
	Pembroke (St. Ann's)	1009·0	55	WNW	4	o	1016·7	+4	55	−1	WNW	4	NW.	cp	4	4	60	54	omdp	omr	omp	3·1
	Scilly (St. Mary's)	1011·9	60	WNW	6	cqp	1018·0	+4	56	−1	NW	4	W	om	5	6	60	54	cqp	cqp	cqp	3·2
	Falmouth ...	1010·3	57	W	6	c	1016·6	+3	55	−3	NW	4	–	r	4	3	62	54	bcq	cqp	or o	5·3
	Jersey (St. Aubin)	1013·0	60	WSW	5	bc	1017·8	*	58	−2	W	4	W	bc	3	–	64	56	bc	b.bc	b.bc	9·5
	Portland Bill ...	1006·7	58	W	6	bcq	1014·2	+3	57	0	W	5	–	od	4	1	60	56	bcrq	bcq	c.op	*
	Dungeness ...	1006·1	60	SW	8	cq	1011·1	+5	60	+1	WSW	6	W	cq	5	1	64	57	bcq	bcq	bcq	*
	Dover	1006·7	58	SW	7	bc	1011·9	+4	59	−1	SW	4	SW	o	4	1	62	56	b.bc.cq	c.bc b	bc.ob.o	3·1
	Wick	1009·8	52	NNE	4	m	1011·6	0	52	−1	NNE	8	–	o	4	–	57	50	m.f	f.mq	ogm	*
	Nairn	1009·1	54	ENE	3	ocd	1012·6	*	54	−3	NNE	4	–	ocq	4	1	61	52	cq	cr.d.	d.cqu	1·1
	Aberdeen ...	1004·9	53	N	5	r	1009·8	+2.	52	−5	NNW	4	–	o	3	27	57	51	or	or	or	0·0
	Leith	1002·4	57	N	3	o	1010·9	+4	57	0	NW	3	NW	c	*	15	57	54	r	r	cqp	*
	Tynemouth ...	996·7	56	ENE	4	c	1007·5	+5	53	−4	N	5	–	om	5	12	60	53	omtl	c	om	*
	Spurn Head ...	997·9	59	WSW	5	c	1005·6	+4	56	−1	WNW	7	–	oq	6	7	62	54	cqp	cq tlr	orq	7·4
	Yarmouth ...	1001·2	63	SSW	6	cptl	1007·2	+5	58	−3	W	5	W	oq	3	7	66	56	o.cqp	cqptl	orq	8·0
	Clacton-on-Sea	1003·5	62	SW	4	cutlr	1010·2	+4	57	−4	WNW	4	NW	oq	4	5	65	56	bc.oqp	oq tlr	c.cqp	5·2
	Nottingham ...	999·3	58	W	5	o	1008·3	*	58	−1	WNW	3	NW	c	*	1	65	56	cp	c.op	or.d	3·8
	Bath	1005·5	60	W	3	o	1013·0	*	57	−1	W	1	W	o	*	6	67	55	op c.bc	bc.c o	ogr	4·4
	Sth Farnborough	1004·8	62	WNW	5	o	1011·8	+5	55	−4	W	3	–	r	*	10	70	55	r c	bcp o	bc or	5·2
	London (Kew Obsy.)	1004·5	65	WSW	4	c	1011·7	+5	58	−3	WSW	3	–	o	*	6	69	57	ocp ocg or ocd bc cq tlr		c.bc.o	6·6
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö														*	*						
	Bodö	1018·0	45	–	0	f	1015·4	−2	50	+2	NNE	1	–	c	1	1	50	45				
	Christiansund	1012·7	55	NE	4	c	1007·8	−1	61	+7	E	2	–	o	2	–	61	54				
	Skudesnaes ..	1007·4	59	NNE	1	o	1010·4	−1	59	+5	NE	2	–	r	1	–	59	54				
	Færder (X'iania Fjord)	1011·4	63	–	0	o	1007·3	−2	61	+4	SSE	2	–	o	1	3	64	57				
	The Scaw (Skagen)	1011·0	61	–	0	r	1006·1	−2	59	0	E	2	–	o	2	7	66	57				
	Blaavands Huk	1009·3	68	S	1	b	1005·2	0	61	−5	SSW	4	–	c	4	4	70	55				
	Haparanda ...	1015·9	68	–	0	b	1015·6	0	64	+1	SSW	4	–	b	*	–	73	54				
	Hernösand ...	1015·3	63	–	0	b	1018·3	−3	63	+4	NNW	2	–	m	*	–	66	52				
	Stockholm ...	1013·6	70	S	2	b	1010·0	−4	61	−3	E	2	–	o	*	–	73	57				
	Wisby	1013·9	66	–	0	b	?1008·3	−6	66	+2	SSE	6	S	b	4	2	68	54				
	Karlstad	1011·8	73	ESE	2	b	1008·4	0	59	0	–	0	–	r	*	1	77	55				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1005·3	64	S	7	bc	1005·0	+2	59	−4	SW	7	–	o	6	2	68	59				
	C. Gris Nez ...	1007·1	61	SW	7	b	1011·7	+4	57	−3	SW	7	*	o	6	–	66	55				
	La Hève	1001·1	64	WSW	5	c	1016·4	*	61	+2	WSW	6	*	o	6	–	72	55				
	Ushant	1017·1	59	NW	6	c	1018·6	*	59	0	NW	5	*	c	3	–	64	54				
	Brest (St. Mathieu)	1016·8	61	WNW	5	bc	1020·4	+2	59	0	WNW	4	*	b	3	–	64	59				
	Rochefort (Ile d'Aix)	1020·2	66	W	5	bc	1021·2	0	63	−1	NW	3	*	c	*	–	70	61				
	Biarritz	1021·9	66	NNW	2	o	1020·8	+1	60	−3	E	1	*	o	4	5	68	57				
	Paris	1014·0	70	WSW	5	b	1018·9	+4	61	−7	WSW	3	–	b	*	–	75	54				
	Belfort	1014·1	74	W	6	c	1013·7	*	65	−4	W	2	*	m	*	–	81	59				
	Lyons	1019·1	75	NW	1	c	1022·3	*	62	−6	N	1	*	o	*	–	84	60				
	Nice	1018·6	70	SW	2	b	1019·0	+3	70	+2	–	0	*	b	0	–	82	63				
	Perpignan ...	1018·9	73	–	0	o	1019·1	+3	73	0	NW	2	SW	o	*	–	86	64				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·4	66	NNE	3	bc	1022·6	+2	63	0	NE	4	–	b	4	–	66	57				
	Madrid (8 a.m.)	1010·7	91	SW	1	b	1013·2	+2	75	0	–	0	–	b	*	–	93	64				
	Lisbon (9 a.m.)																					
	Gibraltar	1016·2	72	E	2	b	1016·6	*	68	−3	–	0	*	b	1	–	81	66				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1018·4	+2	77	+4	W	1	–	b	0	–	82	70				
	Azores (Horta, 8 a.m.)	1025·2	*	SSW	3	bc	1025·0	0	70	+2	SW	1	*	o	1	–	81	68				
	Madeira (Funchal)	1020·4	75	N	3	bc	1021·2	0	68	0	NE	3	–	bc	2	–	75	66				

GALES.

Duration and Extreme Force in British Islands.

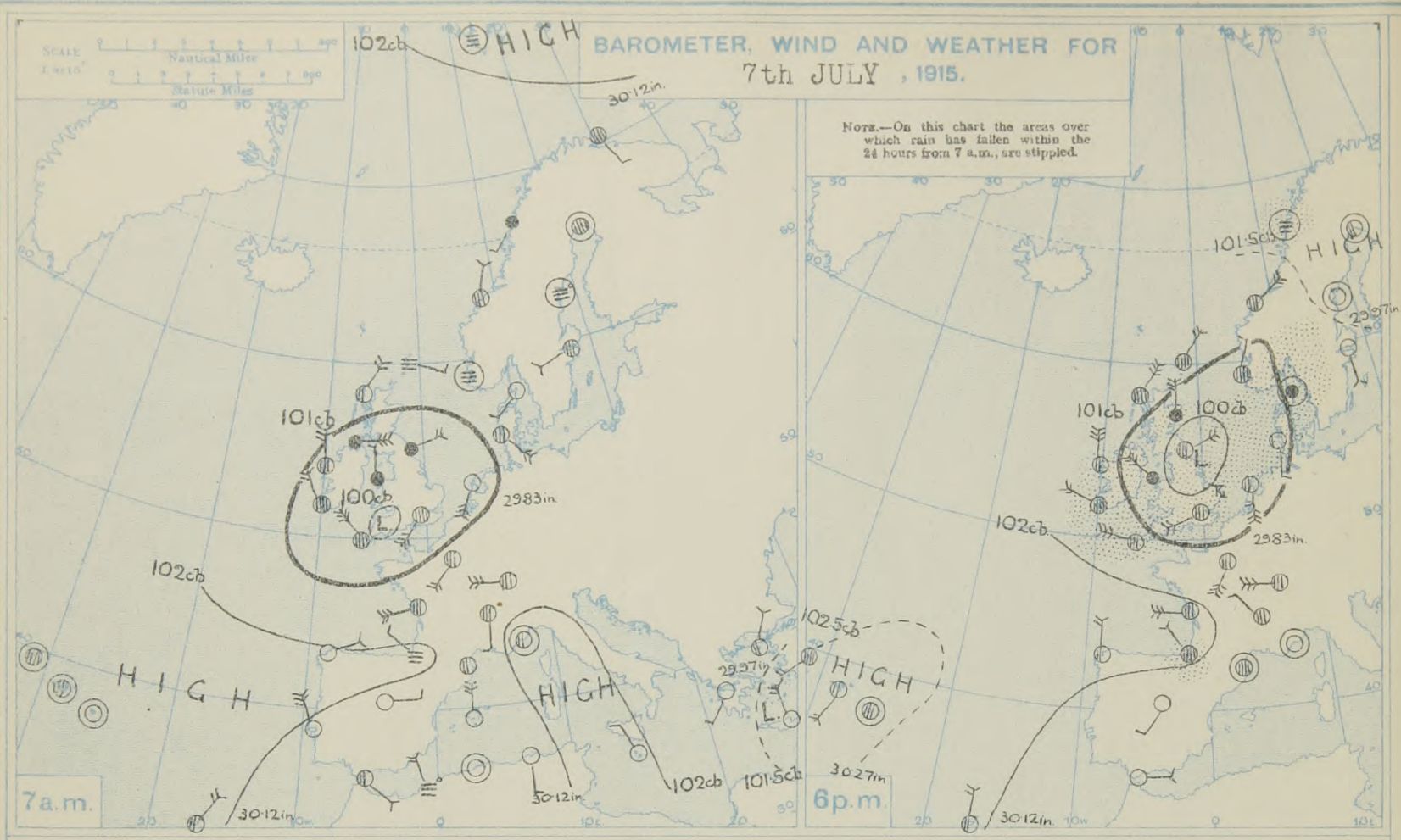
Eskdalemuir
7th 4·15 p.m. Gust NNE 24 mps.

Dungeness
7th Noon – 8th 2 a.m. SW 8
Extreme SW 9 at 3 p.m.

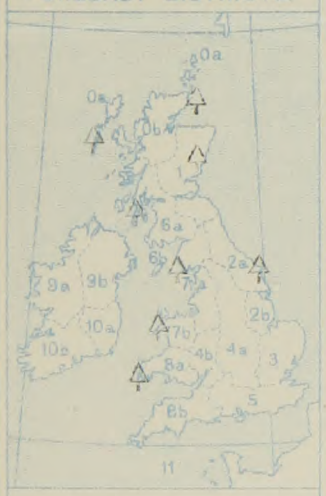
Southport
7th 5 p.m. – 8 p.m. NW 8
Gust 24 mps

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

BAROMETER, WIND AND WEATHER FOR 7th JULY, 1915.



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 at 11.45 a.m. in Districts 0,1,2,6,7&8.

0 (a, b), 1, 2 (a, b) — Moderate Northerly winds, fair generally, but slight local showers; cool.

3, 4 (a, b), 5 — Fresh Westerly winds and cloudy showery weather; followed by moderate North-Westerly winds and fair weather; remaining cool.

6 (a, b), 7 (a, b) — Same as Nos. 0 and 2.

8 (a, b), 9 (a, b), 10 (a, b) — Moderate Northerly and North-Westerly winds; fair; cool.

11 Western Channel and Bay — Moderate North-Westerly winds and a moderate sea, fair; cool.

FURTHER OUTLOOK.

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

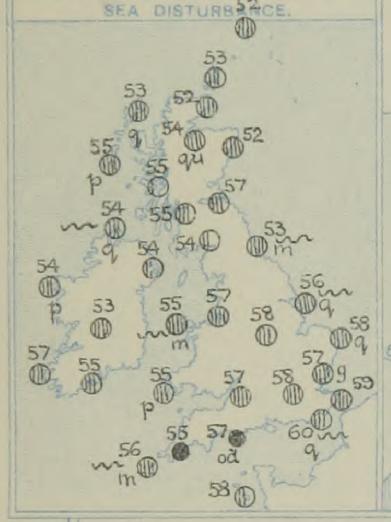
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 8th JULY, 1915.

GENERAL INFERENCE.

The depression over the North Sea will continue to travel away to the eastward and a gradual improvement in the weather will take place over the United Kingdom generally.

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 ⅞ clouded. ● overcast sky. ☂ rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊤≋, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Inches

SCALE 1:12·10⁶
Nautical Miles 0 1 2 3 4 5
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Thursday, 8th July 1915.

REPORTS FOR YESTERDAY.

7th July

STATIONS.	EVENING OBSERVATIONS: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T.: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Oban	1009·0	59	W	6	0	1006·6	*	59	0	W	5	*	c	6	4	64	55
Sanguinaire	?	76	N	3	m	?	*	78	+5	SE	2	*	b	2	-	84	68

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland	Oban	1	66	53	c. bv	c. o	0·8
	Banff	7	58	52	op	r	1·9
	Carnoustie	15	58	51	rc	rc	0·0
	St. Andrews	9	56	52	*	*	0·0
Eng. N.E.	Harrogate	20	61	51	or	op.c	0·9
	Skegness	30	66	55	otr	otr.o	5·0
Eng. N.W.	Morecambe	?	61	55	r	r.o	0·0
	Blackpool	27	60	52	o.or	or.o	0·0
	Southport	25	58	49	or	orq	0·0
Midlands.	Buxton	13	55	51	or	or	0·2
	Leamington Spa	24	66	55	cpt	cp	6·2
	Malvern						
	Ross-on-Wye	10	70	53	bc	bc.cq	6·0
Wales.	Rhyl	12	58	53	r	r	0·0
	Colwyn Bay	20	58	52	r	r	0·0
	Llandudno	7	58	54	r	r	0·0
	Aberystwyth	7	58	55	r.o.c	c.or	2·0
	Tenby	15	64	54	bc.o	r	2·8
England. E.	Cromer	11	66	56	c.bcq.c	or.cq	7·0
	Lowestoft	18	65	57	c.op.c	c.orbl.	7·1
	Felixstowe	4	65	60	cq	o.tbr	5·3
	Walton-on-Naze	7	64	58	bc.op	ctr.bc	5·5
	Southend-on-Sea	13	66	57	klr.cb	c.bor.c	5·7
England. S.E.	Tunbridge Wells	5	65	55	c.or.o	c.bc	3·8
	Margate	-	66	57	b.bc.c	c.bc	7·7
	Ramsgate	18	65	58	bc.op	o.c.bc	8·6
	Hastings	2	63	57	op.c.bc	bc	5·8
	Bexhill-on-Sea	3	65	59	r.o.c.or	r.c	7·1
	Eastbourne	2	63	57	b	bc.b.bcq	8·0
	Seaford	3	65	57	b	b	8·2
	Brighton	15	68	58	or.o	o.c.bc.c	1·5
	Worthing	8	64	57	orc	bc	5·5
	Littlehampton	12	?	58	gp.	b.	3·7
	Bognor	15	64	60	op.c	bc.o	5·5
	Southsea	13	68	57	bc	bc	5·0
	Bournemouth	11	69	56	r0	c.o	3·3
England. S.W.	Weymouth	14	67	56	or.bc	bc.cp.o	4·0
	Torquay	9	66	56	bc	c.o	5·2
	Paignton						
	Falmouth	10	62	55	bcq	cpq	5·3
	Penzance	15	62	54	cp.	bcp.	1·8
	Newquay	9	60	53	cq	opq	1·5
	Ilfracombe	6	64	55	c.bc	bc.c.op	4·2
	Weston-super-Mare	13	64	53	bcp.b	b bc.c	6·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 A.M. To-Day.						
Greenwich (Royal Obsy.)	68	58	4·4	70	56	52	2	c	or	o
City (Bunhill Row)	*	*	5·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	68	83	5·0	69	57	55	3	cup	o.otr	ou
Camden Sq. (Brit. Rainfall)	66	77	4·5	70	56	54	5	b.or	or.bc	*
Hampstead (Reservoir)	*	80	4·4	66	52	45	14	orptl	or	o
Richmond Park	*	*	6·1							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	63	77	5·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1083 Joules	18·4 Milliwatts.	78 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	17	62	54	*	or	or	or.o	0·0
Birmingham ,,	2	64	54	53	r.o	c.cp	c.o	5·1
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	7	67	56	54	o.or.c	bcp	bc.c	4·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	21	69	57	54	c.or c	orq.	oqr.d.o	*

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

8th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·40 / 3·42	11·58 / 11·58	8·16 / 8·14
Greenwich	3·54 / 3·55	12·5 / 12·5	8·16 / 8·15
Wick	3·20 / 3·21	12·17 / 12·17	9·13 / 9·12
Valencia	4·32 / 4·33	12·46 / 12·46	8·59 / 8·59

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 65° and upwards at several of the English stations and reached 70° at South Farnborough and Ross-on-Wye. Considerable quantities of rain fell in many parts of Great Britain (as much as 27 mm. at Aberdeen) and thunderstorms occurred in the east of England.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 190. { Friday, 9th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1012·8	55	N	4	c	1011·0	0	49	−3	NW	4	–	o	3	–	55	45	og	c	o	*
	Deerness ...	1014·9	52	NW	4	o	1015·9	*	50	−3	WNW	4	–	o	2	–	57	47	c.bc	bc.c.o	o	3·0
	Stornoway ...	1019·0	53	NNW	4	odp	1018·8	−1	54	+1	W	3	–	c	3	1	55	49	odpq	odqp	o.c	2·0
	Castlebay (Barra Isd.)	1020·1	54	NW	3	o	1020·9	0	55	0	WNW	3	W	o	3	1	58	51	qp.bc	bc.o	c	4·2
	Glasgow ...	1016·4	59	-	0	c	1020·2	+2	51	−4	WSW	1	SW	bc	*	1	66	49	c.o.c	qp.c.o	c.bc.c	7·4
	Eskdalemuir ...	1016·3	56	NW	1	o	1019·8	+1	53	−1	ENE	1	–	c	*	–	63	46	bc.c	c.oug.o	qp.c.o	5·9
	Malin Head ...	1020·6	55	NNW	4	bcq	1022·0	0	52	−2	NNW	2	NW	cq	2	0·2	57	50	cq	bcq	cq	3·7
	Blacksod Point	1022·9	56	N	4	bcr	1024·3	0	55	+1	NNW	1	NW	bcr	2	–	60	50	bc	bc	bc	*
	Valencia ...	1023·6	61	NW	4	bc	1025·4	+2	56	−1	–	0	N	c	3	3	62	49	c.qp	cr	bcr.bc	7·9
	Roche's Point	1022·7	61	NNW	3	c	1024·8	0	54	−1	N	2	–	b	2	0·2	65	51	c	c	c.b	*
	Birr Castle ...	1020·7	59	NW	1	o	1024·4	*	51	−2	–	0	–	o	*	–	66	47	o	o.c	o	0·7
	Donaghadee ...	1018·4	57	N	4	bcm	1023·3	+1	54	0	NW	4	NW	bcm	3	–	60	49	bcq	bcm	bcm	*
	Liverpool (Bidston)	1017·4	60	WNW	3	b	1020·7	+1	54	−3	W	3	NW	bc	3	–	63	52	o.bc	b	bc	10·7
	Holyhead ...	1019·9	58	NW	3	cr	1021·2	+1	55	0	NW	5	–	b	*	–	62	52	ox.bc.b	b.bc.c	c.bc.b	9·5
	Pembroke (St. Ann's)	1020·6	57	NW	1	c	1023·1	+2	55	0	NNE	1	NW	c	1	–	59	52	cp.c	c	c	2·8
	Scilly (St. Mary's)	1021·8	61	NW	2	bc	1022·3	0	57	+1	–	0	–	bc	3	–	62	54	cm	bc	bc.b	9·9
	Falmouth ...	1021·0	59	NW	4	c	1021·8	+1	61	+6	WNW	1	NW	b	1	Trace	62	51	c	c.bc	bc	3·6
	Jersey (St Aubin)	1020·9	60	W	4	bc	1021·9	*	56	+2	WNW	2	NW	b	1	–	62	53	bc	bc	b	3·2
	Portland Bill ...	1018·1	58	WSW	3	c	1020·7	+2	59	+2	NE	2	SW	bc	2	1	59	54	or	o.c	bc.b	*
	Dungeness ...	1017·9	58	WSW	5	or	1020·8	+2	57	−3	S	1	–	o	1	4	64	52	bc.op	p.or	bc.p.o	*
	Dover	1017·6	56	SW	4	r	1021·0	+3	57	−2	SW	1	–	o	2	2	63	48	o.c	c.op.r	or.bp.o	0·7
	Wick	1015·8	54	NNW	5	o	1017·1	0	56	−2	WNW	3	NW	o	2	–	65	48	omp	om	omg	*
	Nairn	1017·1	54	N	3	cg	1018·7	*	52	−2	NNW	2	–	c	2	1	60	49	cg	bcp.c	p.cg	0·7
	Aberdeen ...	1015·4	55	NW	4	c	1018·5	+1	53	+1	WNW	1	–	o	2	–	59	51	cg.c	o.c	c.o	2·7
	Leith	1014·8	61	NW	2	r	1019·6	+2	54	−3	WNW	2	W	c	*	5	66	53	c	c.bc.or	or.c	*
	Tynemouth ...	1015·3	56	NNE	3	bc	1019·1	+1	55	+2	WNW	1	–	bcm	3	1	59	52	cgm	cg	cp	*
	Spurn Head ...	1017·4	56	N	4	bc	1020·3	+2	54	−2	ENE	3	–	cr	5	–	59	52	cq	bcq	c	1·5
	Yarmouth ...	1016·8	58	NW	2	c													og.qp	c		
	Clacton-on-Sea	1016·7	61	NW	3	o	1020·4	+1	59	+2	SSW	1	NW	ogg	1	–	69	53	og.c	c.o	o.c.ogg	3·4
	Nottingham ...	1016·5	61	WSW	1	c	1020·4	*	54	−4	W	1	W	bcm	*	–	62	47	c.o	cg.o	c.o	0·6
	Bath	1017·6	63	W	1	o	1021·5	*	56	−1	W	1	SW	c	*	1	68	51	ogp.r	p.o	o.c	0·1
	Sth Farnborough	1017·0	61	WSW	2	c	1020·9	+3	56	+1	NW	1	W	o	*	1	62	53	o	p	c.o	0·1
	London (Kew Obsy.)	1017·7	62	NW	1	o	1021·4	+2	58	0	NW	1	SW	c	*	3	63	55	o.od.o	o.or.o	o.or.o.c	0·0
NORTHERN EUROPE.	Spitsbergen ...	1007·8	37	-	0	r	1010·6	+2	36	+1	NE	4	*	f	*	*	37	34				
	Vardö	1015·9	45	-	0	f	1013·3	−1	54	+2	-	0	-	b	1	*	54	48				
	Bodö	1009·9	54	NE	2	b	1001·9	−5	?61	+11	NE	1	–	c	1	–	?61	48				
	Christiansund	1003·9	61	NNE	2	r	1004·6	0	52	−9	W	2	–	r	2	5	68	52				
	Skudesnaes ..	1003·5	54	NNW	6	c	1007·3	+1	52	−7	NW	5	-	f	2	–	64	50				
	Færder (X'tiania Fjord)	1003·3	59	S	2	o	1002·7	+2	63	+2	SW	1	–	o	3	6	63	56				
	The Scaw (Skagen)	1002·1	61	SSE	2	o	1004·4	+2	57	−2	WSW	3	–	o	3	15	64	55				
	Blaavands Huk	1003·8	57	WNW	5	o	1011·8	+3	55	−6	WNW	5	–	o	4	3	61	52				
	Haparanda † ...	1011·9	75	NE	2	bc	1009·0	0	68	+4	SSE	4	SE	bc	*	–	81	63				
	Hernösand † ...	1007·0	59	–	0	r	1003·4	−1	57	−6	ENE	2	–	f	*	2	64	55				
	Stockholm † ...	1007·5	64	NNW	2	o	1003·7	−1	59	−2	S	2	–	o	*	1	72	57				
	Wisby †	1008·6	70	SSW	2	b	1006·9	−2	64	−2	SSW	6	SW	bc	*	-	73	50				
	Karlstad †	1005·2	63	SSE	4	c	1001·9	0	61	+2	WSW	2	-	c	*	5	66	55				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1014·7	59	WSW	5	c	1019·3	+2	57	−2	WNW	3	W	b	2	–	63	57				
	C. Gris Nez ...	1017·6	56	WSW	6	r	1020·7	+2	59	+2	SSW	1	*	m	1	5	61	54				
	La Hève	1020·7	59	WNW	4	o	1021·7	*	58	−3	SW	3	*	o	4	–	70	54				
	Ushant	1029·2	58	NW	2	b	1023·0	*	59	0	NNW	2	*	o	3	–	68	52				
	Brest (St. Mathieu)	1022·9	60	N	3	b	1023·7	0	60	+1	NW	2	*	c	2	–	66	57				
	Rochefort (Ile d'Aix)	1021·7	65	WNW	4	bc	1021·5	0	64	−2	NE	3	*	bc	*	–	70	54				
	Biarritz	1021·3	64	NE	1	o	1019·1	−1	60	0	ENE	2	*	o	2	–	66	59				
	Paris	1018·9	70	W	3	b	1022·4	+1	59	−2	NNE	2	–	b	*	–	78	50				
	Belfort	1020·6	66	W	3	c	1022·1	*	61	−4	-	0	*	c	*	–	75	57				
	Lyons	1021·2	62	NW	2	r	1021·1	*	62	0	N	2	*	bc	*	11	73	57				
	Nice	1017·1	71	-	0	bc	1017·1	0	73	+3	SW	1	*	b	0	–	82	63				
	Perpignan ...	1018·3	70	NW	3	c	1018·3	0	72	−1	W	2	SW	b	*	–	86	64				
	Sanguinaire ...	*	78	E	2	c	*	*	76	0	S	3	*	bc	2	–	82	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022·4	66	NNE	6	bc	1019·4	0	63	0	NE	5	–	o	3	–	68	61				
	Madrid (8 a.m.)	1010·6	88	SW	2	b	1015·5	+2	73	−2	-	0	–	b	*	–	90	63				
	Lisbon (9 a.m.) †	1016·7	72	NNW	5	b	1018·6	+2	61	−2	NNW	3	-	b	2	–	75	59				
	Gibraltar	1015·6	70	-	0	b	1016·2	*	67	−1	-	0	*	b	2	–	81	68				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1018·4	+2	73	−4	N	1	–	b	1	–	82	72				
	Azores (Horta, 8 a.m.)	1024·6	*	SW	3	bc	1023·7	+1	68	−2	–	0	*	b	1	–	82	66				
	Madeira (Funchal)	1020·6	78	NE	3	o	1020·6	0	66	−4	NE	3	-	bc	3	–	75	64				

GALES.

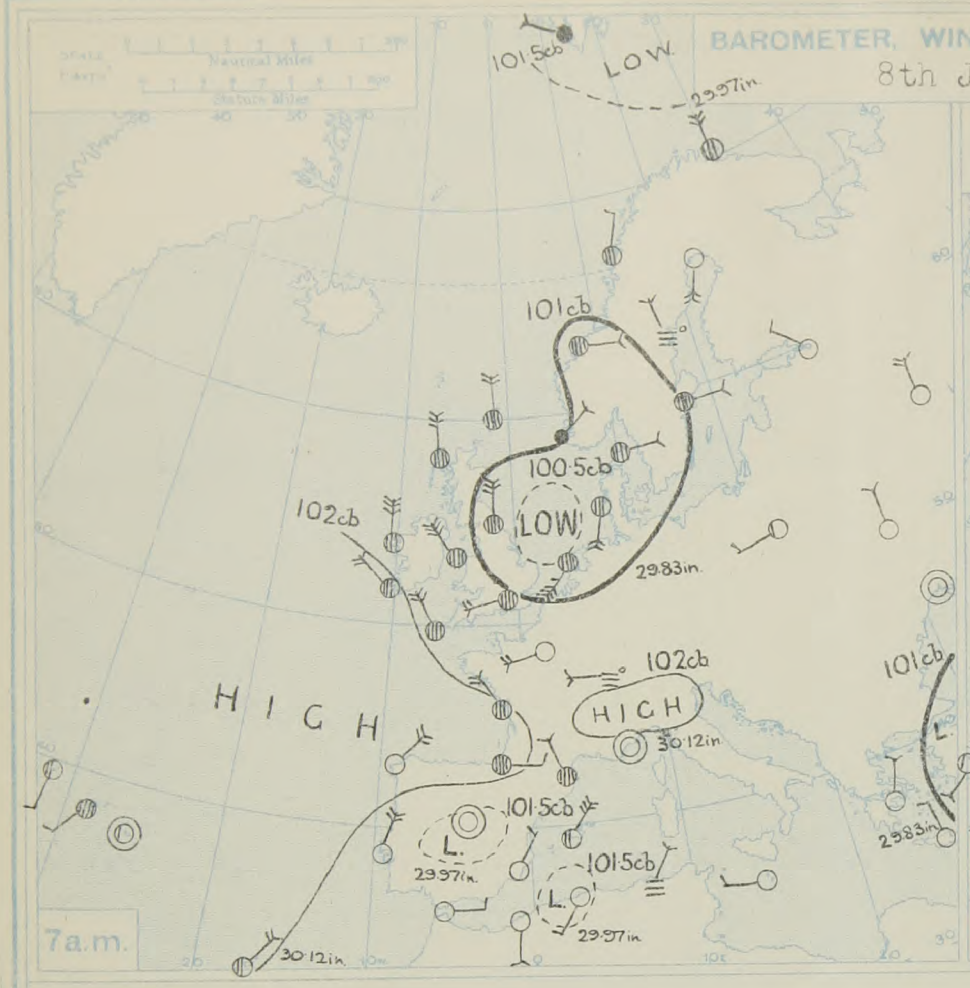
Duration and Extreme Force in British Islands.

Aberdeen.
Str. 16 a.m. Gusts NNW 18 mps.

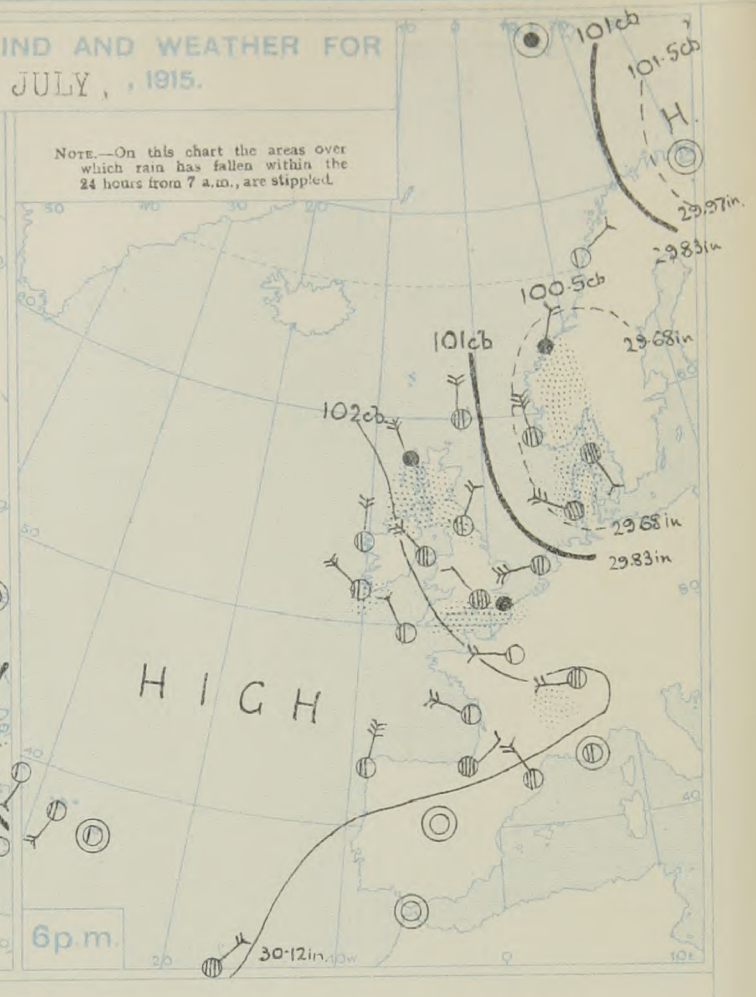
South Farnborough
Pilot Balloon Ascent – wind at 500 metres N 14 mph.
" " 2000 metres WNW 11 mph.

* 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 8th JULY, , 1915.

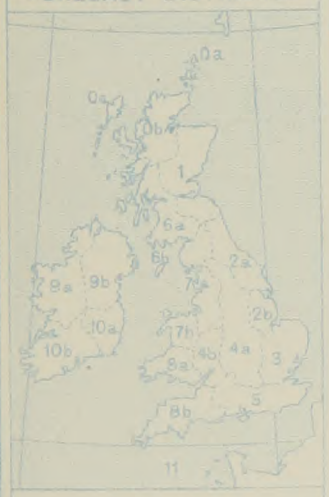


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



0 (a, b) Moderate or fresh Westerly to South-Westerly winds; fair at first, some rain later; cool.

1 Light North-Westerly to Westerly winds; fair to-day, some showers to-morrow; rather cool.

2 (a, b) Light Westerly and North-Westerly winds; fair generally; rather cool.

3, 4 (a, b), 5 Light breezes chiefly from West or North-West; fine generally; becoming warmer.

6 (a, b) Same as No. 1.

7 (a, b) Same as No. 2.

8 (a, b) Light breezes chiefly North-Westerly; fair generally, but misty in places, becoming rather warmer.

9 (a, b), 10 (a, b) Light North-Westerly winds, backing later; fair generally; becoming rather warmer.

11 Light or moderate Northerly to North-Easterly winds and a slight sea; fair generally; becoming rather warmer.

STORM WARNINGS.

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

Signals hoisted yesterda,	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.

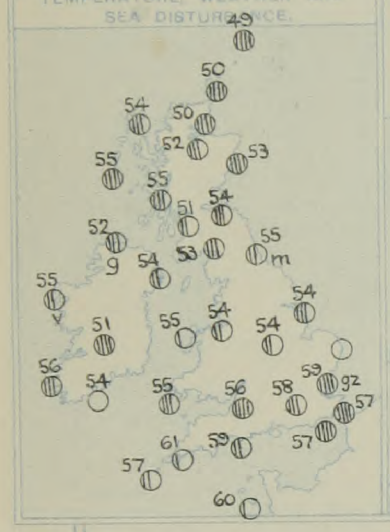
W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 9th JULY, 1915.

GENERAL INFERENCE.

Over the country generally the conditions are likely to remain fair and quiet, but the backing winds in the north of Scotland seem to indicate the approach of a depression towards that region, probably from west or 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 ≈≈.

101cb. 36 HIGH 54 29.83in.
100·5cb Barometer falling 29.68in.
100·5cb 52 LOW
101cb 60°
50° 101·5cb 49 52 57 29.68in.
54 53 55 29.83in.
102cb Barometer 52 55 29.97in.
102·5cb 55 55 57 30·12in.
56 HIGH 58 61 rising 60°
57 60 59
59 61 generally 30·12in.
61 62 70°
60° 63 60 73 76
68 73 LOW 73
70
64 102cb

Scale 1°5 x 10° Nautical Miles / Statute Miles

Normal Temperature of the Sea
Below 50 | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JULY.

DAILY WEATHER REPORT. Friday, 9th July, 1915.

REPORTS FOR YESTERDAY.

9th July 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Spitsbergen	1018·1	37	SE	7	0	1010·1	-3	35		NW	2	-	r	*	?	37	34
Vardö	1015·7	50	SE	2	b	1016·3	0	32		N	4	-	c	3	-	34	29
Petrograd	1017·3	69	N	1	b	1017·0	0	64	+1	NW	1	N	b	*	-	73	55
Sanguinaire	?	78	NW	1	b	?	?	76	-2	S	2	*	m	2	-	84	64
Lisbon	1017·1	72	NNW	5	b	1018·0	+2	63	-1	SE	3	-	b	6	-	75	61

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0·3	66	49	bc.c	b	9·0
	Banff	b	55	51	0	0	0·1
	Carnoustie	5	64	51	bc.c	f.c	6·8
	St. Andrews	-	65	53	*	*	6·3
Eng. N.E.	Harrogate	1	61	53	o.c	mp.c	0·5
	Skegness	4	61	55	o.bc	c.o	2·9
Eng. N.W.	Morecambe	-	64	55	bc	bc	4·4
	Blackpool	-	64	54	o.bc.b	b.bc	7·3
	Southport	-	63	56	o.c.bc.b	b.bc	8·7
Midlands.	Buxton	11	60	51	c	c	1·1
	Leamington Spa	1	64	54	c	c	0·7
	Malvern	-	64	55	c	c	2·1
	Ross-on-Wye	-	69	55	o.bc.c	bc.c	1·9
Wales.	Rhyl	4	62	53	bc	bc	3·0
	Colwyn Bay	3	63	52	c.bc	bc	5·5
	Llandudno	1	65	53	c.b	b	5·1
	Aberystwyth	4	62	55	r.o.c	c.b.o	5·0
	Tenby	1	65	53	bc.o	bc	2·1
England. E.	Cromer	2	62	54	c.r.c	c.o	0·5
	Lowestoft	1	66	56	c.mp.c	c.mp.c	3·1
	Felixstowe	4	67	55	cp	cp	2·9
	Walton-on-Naze	2	68	55	c.bcp	cp.o.u	3·1
	Southend-on-Sea	3	67	56	o.c.bc	bc.r.o	1·6
England. S.E.	Tunbridge Wells	7	61	35	o.c.r.o	o.r	0·0
	Margate	-	62	56	o	c	3·0
	Ramsgate	-	67	55	o	c.o	1·6
	Hastings	11	61	52	c.o	r	0·4
	Bexhill-on-Sea	12	62	56	c.r	r.o	0·3
	Eastbourne	8	63	56	r	r	0·0
	Seaford	5	61	56	o	r	0·0
	Brighton	11	61	55	r	r.o	0·0
	Worthing	11	61	55	r	r.c	0·1
	Littlehampton	5	64	57	c	o	0·2
	Bognor	4	64	56	mp	mp	0·6
	Southsea	14	61	54	cr	cr	0·0
	Bournemouth	1	62	54	o	o	0·2
England. S.W.	Weymouth	1	62	55	ocl.c	c3	0·1
	Torquay	4	63	55	r	p.o.c	0·3
	Paignton	5	63	55	mp	c	† 0·2
	Falmouth	2	62	54	c	c.bc	3·1
	Penzance	4	62	55	bc	b	4·7
	Newquay	8	60	54	c.o	o	0·1
	Ilfracombe	4	61	55	o	c.b.bc	5·0
	Weston-super-Mare	4	65	55	o.bc	bc.b	3·3

† to sunset.

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	66	71	0·0	65	35	32	2	o	mp.o	o.mp.o
City (Bunhill Row)	*	*	0·2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	72	71		65	55	38	1	o	our.bc	o
Camden Sq. (Brit. Rainfall)	70	58	0·4	65	55	55	1	c.o	mp.c	*
Hampstead (Reservoir)	*	64	0·4	62	52	43	0·3	o	c.mp	cp.o
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	71	58	0·2							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
621 Joules	10·7 Milliwatts.	59 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	62	52	51	ogw	ogw.bc	b	3·9
Manchester ,,	-	64	56	*	o	o	o.c.bc	3·5
Birmingham ,,	3	63	52	51	r.o	o.c	c	1·3
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	64	57	55	o	o.mp.o	o	*

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

9th & 10th July. 1915.

	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.42 / 4.43	11.58 / 11.58	8.14 / 8.14
Greenwich	3.55 / 3.56	12.5 / 12.5	8.15 / 8.14
Wick	3.21 / 3.22	12.17 / 12.17	9.12 / 9.11
Valencia	4.33 / 4.34	12.46 / 12.46	8.59 / 8.58

NOTES ON YESTERDAY'S WEATHER.

The maximum temperatures recorded were as a rule below 65° even in the warmest parts of the country; at several coast stations in the west, north and northwest the thermometer failed to reach 60°. Showers were again experienced in most districts.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 191. { Saturday, 10th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1007·8	52	SW	4	ond	1007·3	0	51	+2	WNW	3	–	c	2	8	52	47	omr	omr	o	0·0
	Deerness ...	1009·8	52	W	4	oph	1008·5	*	52	+2	W	3	W	o	2	2	55	46	o	opd	od	0·0
	Stornoway ...	1013·0	57	W	6	odqp	1012·0	o	54	o	WNW	4	–	oq	4	1	58	52	c.oq	c.odqp	oq	1·3
	Castlebay (Barra Isd.)	1015·7	55	W	5	op	1013·6	0	54	–1	W	4	–	o	4	1	59	52	o.c.o	o.c.op	op.o	0·9
	Glasgow ...	1018·4	55	W	4	o	1013·3	0	55	+4	W	3	N	c	*	0·1	59	51	cv.o	o	od.o	3·0
	Eskdalemuir ...	1018·0	55	WSW	4	o	1013·3	–1	56	+3	SW	4	N	c	*	0·2	61	50	c.bc.o	o.c.o	op.o.or	5·6
	Malin Head ...	1020·6	57	WNW	5	cq	1016·3	–1	56	+4	NW	6	–	omrq	5	3	59	52	bcq	cq	omrq	4·1
	Blacksod Point	1023·9	57	WNW	4	cv	1020·7	o	54	–1	WNW	5	NW	cmp	4	1	60	53	cv	cv	om.cmp	*
	Valencia ...	1026·3	60	NW	3	b	1024·2	–1	56	o	W	3	NW	c	3	–	62	55	c.o	bc	c.o	8·1
	Roche's Point	1025·2	62	NNW	3	c	1023·8	*	57	+3	W	3	–	q.	2	–	65	53	b.o	o.c	o.bc.o	*
	Birr Castle ...	1023·9	60	W	1	c	1020·6	*	57	+6	W	3	–	o	*	–	61	50	c	c	o	0·7
	Donaghadee ...	1020·5	60	NW	3	cqm	1015·8	–2	56	+2	WNW	4	–	ogmp	3	–	60	53	bc	bc	cqm.om	*
	Liverpool (Bidston)	1021·1	59	W	4	b	1017·4	–2	54	o	W	4	W	o	3	–	60	54	o.c	b	og	7·4
	Holyhead ...	1022·3	58	SW	4	bc	1018·7	–1	56	+1	W	5	–	og	4	c	62	54	b.bc.o	c.b.bc.o	c.bc.b.o	11·0
	Pembroke (St. Ann's)	1024·1	56	WNW	1	b	1023·0	–1	55	o	W	3	NW	bcq	3	–	61	53	c	bv	bv	10·4
	Scilly (St. Mary's)	1023·9	60	N	3	b	1023·7	o	57	o	NW	2	–	b	2	–	63	53	bc	b	b	13·5
	Falmouth ...	1023·3	62	NNW	2	b	1023·1	o	57	–4	WNW	4	–	bc	3	–	66	51	c.og	c.b	bc	8·4
	Jersey (St. Aubin)	1022·0	63	WNW	3	b	1022·6	*	60	o	NW	3	–	b	2	–	65	52	b	bc.b	b	11·0
	Portland Bill ...	1021·7	60	W	3	bc	1021·7	o	59	o	WNW	2	NW	bc	2	–	64	57	bc	bc	b.bc	*
	Dungeness ...	1020·3	60	SSW	2	o	1019·7	o	57	o	SW	2	SW	c	2	–	62	51	of	o.bc.o	o.bc.c	*
	Dover	1020·9	57	SW	1	c	1019·2	o	59	+2	NW	3	NW	b	2	2	65	49	op.r.c	c	o.c.bc.b	0·8
	Wick	1010·9	57	W	3	o	1009·5	o	52	+2	NW	4	NW	o	3	1	57	49	ogm	ogm	omgp	*
	Nairn	? 1014·5	58	W	3	cgq	1010·8	*	56	+4	W	3	–	bcq	2	–	61	51	o.c	bcq	uq.bc	1·5
	Aberdeen ...	1014·2	58	WSW	2	o	1010·5	o	57	+4	WNW	2	NW	c	2	–	61	52	o	o	o.c	0·5
	Leith	1016·7	59	W	2	o	1012·1	–1	58	+4	WSW	3	W	c	*	–	62	54	c	c.o	bc.b	*
	Tynemouth ...	1017·1	63	NNW	2	bc	1013·1	–2	59	+4	NW	4	W	bc	3	–	64	53	bc	bc	bc	*
	Spurn Head ...	1019·7	57	SSE	4	c	1016·3	–4	56	+2	WSW	5	–	bcq	4	0·1	62	52	bc	bcp	bc	3·1
	Yarmouth ...																					
	Clacton-on-Sea	1019·6	65	SSW	2	bc	1018·9	o	56	–3	WNW	2	NW	bc	1	9	67	48	ogr.bc	bc	bc	8·0
	Nottingham ...	1019·9	60	W	4	b	1017·3	*	55	+1	W	3	W	c	*	–	65	47	bcm.c	c.bc	b.	8·3
	Bath	1020·9	67	W	2	bc	1020·5	*	59	+3	W	2	W	bc	*	–	68	51	o.c	o.c	c.bc.b	7·0
	Sth Farnborough	1020·2	66	NW	3	bc	1019·6	o	57	+1	W	2	N	bv	*	–	68	46	bc	o.bc	c.b	5·1
	London (Kew Obsy.)	1020·4	67	W	2	b	1019·9	o	56	–2	W	2	W	c	*	–	67	51	c.bc	bc.sq.bv	bv.b.bc.c	7·9
NORTHERN EUROPE.	Spitsbergen ...	1014·0	37	N	5	o	1014·9	o	39	+3	SE	1	*	o	*	*	39	34				
	Vardö	1011·3	48	NNE	3	b	1010·7	o	52	–2	SE	4	–	b	? 2	*	55	43				
	Bodö	999·9	59	E	2	bc	1000·4	o	50	–11	–	o	–	r	1	2	68	48				
	Christiansund	1007·0	50	W	4	o	1006·7	o	50	–2	W	2	–	c	2	9	52	48				
	Skudesnaes ..	1010·9	52	NW	3	o	1006·6	o	54	+2	–	o	NE	o	2	3	54	50				
	Færder (X'lania Fjord)	1002·1	63	SSW	2	c	1005·9	+3	55	–8	NW	4	–	o	3	4	63	55				
	The Scaw (Skagen)	1005·3	57	WSW	6	bc	1008·3	·0	57	o	W	6	W	bc	5	–	61	54				
	Blaavands Huk	1015·5	55	WNW	5	o	1013·6	–1	55	o	WSW	2	–	o	3	Trace	59	52				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1019·9	59	WSW	1	c	1015·3	–2	59	+2	W	3	–	c	2	–	63	48				
	C. Gris Nez ...	1019·8	63	SW	1	bc	1019·8	o	59	o	NW	2	*	c	2	–	70	55				
	La Hève	1020·6	64	N	1	bc	1021·1	*	61	+3	NW	3	*	b	3	–	68	55				
	Ushant	1023·5	60	N	2	b	1023·8	*	57	–2	NE	3	*	b	2	–	75	52				
	Brest (St. Mathieu)	1023·5	64	NNW	3	b	1024·4	o	55	–5	NE	2	*	b	2	–	64	54				
	Rochefort (Ile d'Aix)	1019·7	66	NW	4	c	1020·7	+2	63	+2	NE	3	*	bc	*	–	73	57				
	Biarritz	1018·7	65	N	2	o	1019·5	o	62	+2	W	2	*	o	2	1	68	60				
	Paris	1019·8	68	NNE	1	o	1020·4	o	61	+2	N	1	–	b	*	–	73	52				
	Belfort	1019·5	68	WSW	2	c	1019·1	*	63	+2	–	o	*	m	*	–	75	55				
	Lyons	1018·9	69	WNW	2	o	1019·0	*	61	–1	W	1	*	o	*	8	75	59				
	Nice	1017·0	73	–	o	b	1016·8	o	71	–2	–	o	o	b	o	–	84	64				
	Perpignan ...	1016·3	73	W	2	bc	1017·1	+2	75	+3	SW	1	–	o	*	–	82	63				
	Sanguinaire ...	*	79	N	3	b	*	*	75	–1	E	1	*	b	?	–	?	?				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·8	64	NE	6	o	1022·4	+1	61	–2	NE	5	–	o	3	–	68	61				
	Madrid (8 a.m.)	1011·3	86	WSW	2	b	1016·3	+2	68	–2	–	o	–	b	*	–	90	57				
	Lisbon (9 a.m.)																					
	Gibraltar	1019·3	70	W	1	c	1017·3	*	67	o	W	1	*	b	1	–	80	63				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1018·4	+1	79	+6	–	o	–	b	o	–	79	70				
	Azores (Horta, 8 a.m.)	1024·2	*	ENE	5	b	1025·3	+1	68	o	NNE	4	*	o	2	–	77	66				
	Madeira (Funchal)	1020·0	72	NE	3	o	1021·3	+1	64	o	NE	3	–	b	3	–	75	64				

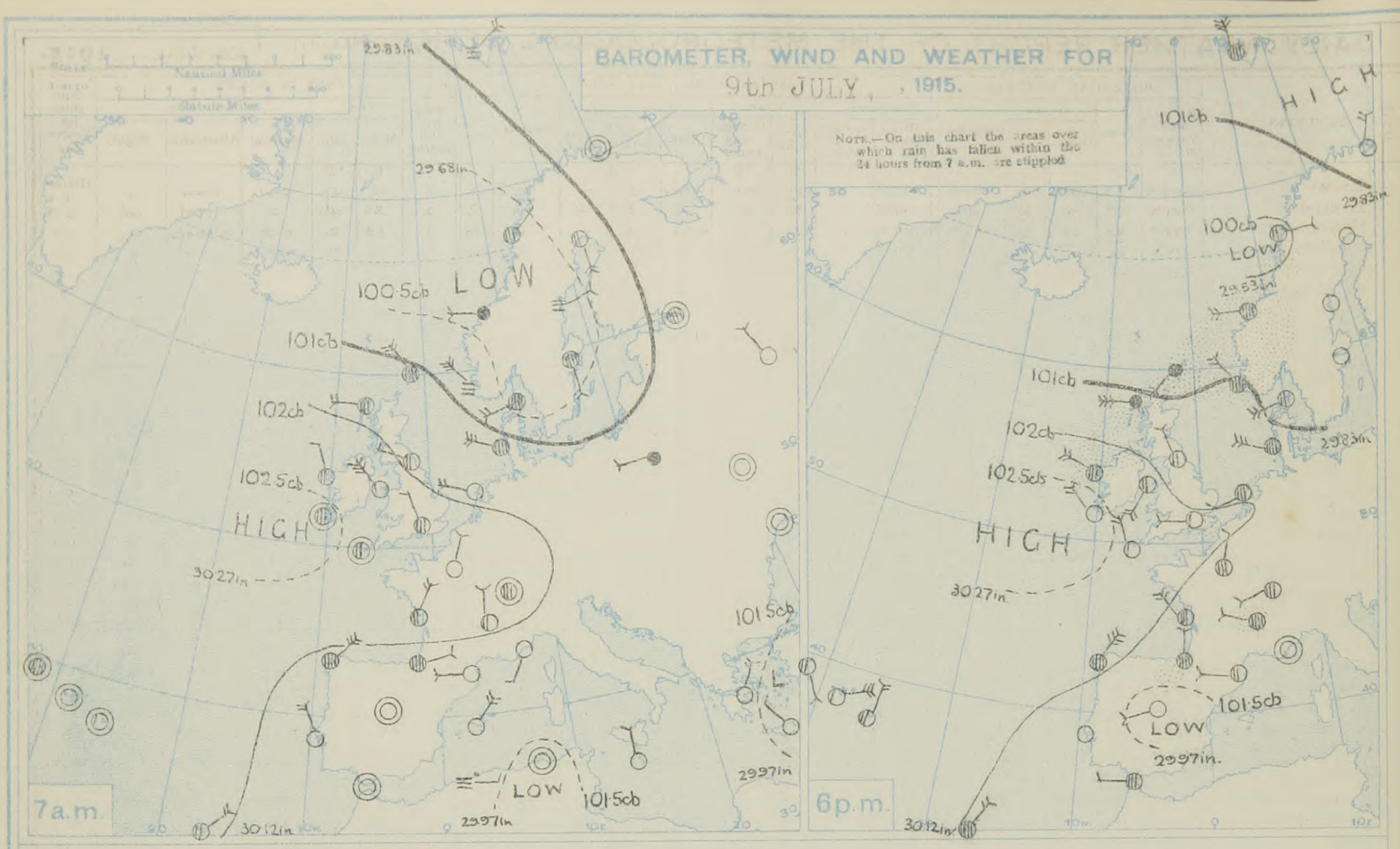
South Farnborough
Pilot Balloon Ascent at about 7a.m.
wind at 600 metres WNW 14 mph.
wind at 2000 metres WNW 22 mph.

RAINFALL.
Equivalents of Millimetres. in Inches.

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

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

BAROMETER, WIND AND WEATHER FOR 9th JULY, , 1915.



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

FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

0 a, b, 1 — Light or moderate North-Westerly to Westerly winds, mostly fair, but some local showers; cool.

2 a, b, 3, 4 a, b, 5 — Moderate Westerly and North-Westerly winds; cool, cloudy, some showers, thunder locally.

6 a, b — Same as Nos. 0 and 1.

7 a, b — Same as Nos. 2 to 5.

8 a, b — Light or moderate Westerly and North-Westerly winds; mostly fair, but slight showers locally, cool.

9 a, b — Fresh Westerly and North-Westerly winds; cool, changeable, some showers.

10 a, b — Same as No. 8.

11 — Light North-Westerly to North-Easterly winds and a slight sea; mostly fair, but slight showers locally; cool.

FURTHER OUTLOOK.

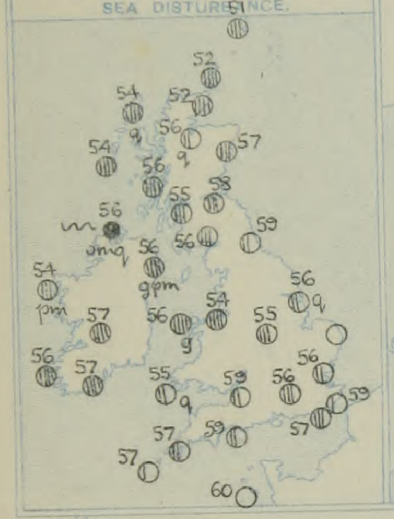
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 10th JULY, 1915.

GENERAL INFERENCE.

The depression in the north will continue to move eastwards. Small secondary disturbances will pass across the United Kingdom and occasion showers in many districts.

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 ≈≈≈.

101cb
50°
29·83in
100·5cb
L O W
Steady
29·68in
100·5cb
101cb.
Barometer
101·5cb
29·83in.
Barometer
102cb
falling
29·97in
Bar. steady
60°
102·5cb
H I G H
Barometer
rising
70°
30·27in.
30·12in

Scale 1 : 12 × 10⁶
Nautical Miles 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Statute Miles 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69

Normal Temperature of the Sea.
Below 50° | 50°–60° | 60°–70° | Above 70°
Scale of Tints for JULY.

DAILY WEATHER REPORT. Saturday 10th July 1915.

REPORTS FOR YESTERDAY.

9th July

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp. °F.	Evening Observations: Wind. Direc.	Evening Observations: Wind. Force 0–12.	Evening Observations: Weather.	7 a.m., G.M.T.: Barometer. Millibars at M.S.L.	7 a.m., G.M.T.: Barometer. Change in 3 hours.	7 a.m., G.M.T.: Temp. Dry Bulb. °F.	7 a.m., G.M.T.: Temp. Change in 24 hours. °F.	7 a.m., G.M.T.: Wind. Direc.	7 a.m., G.M.T.: Wind. Force 0–12.	7 a.m., G.M.T.: Direc. of Upper Cloud.	7 a.m., G.M.T.: Weather.	7 a.m., G.M.T.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1014·7	70	ENE	2	b	1013·2	-1	64	0	SE	1	-	0	*	-	75	57

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	59	49	bc	bc.c	4·6
Scotland.	Banff	-	59	51	c.o	o.g	1·4
Scotland.	Carnoustie	-	64	48	bc o c	c.o g	3·2
Scotland.	St. Andrews	-	63	47	*	*	3·6
Eng. N.E.	Harrogate	2	63	51	c.bc	b	7·3
Eng. N.E.	Skegness	-	62	54	o. c	c. o u	6·1
Eng. N.W.	Morecambe	-	63	53	b	b	12·0
Eng. N.W.	Blackpool	-	63	54	bc	b	11·9
Eng. N.W.	Southport	-	60	54	c.bc.o	o.bc.b	7·5
Midlands.	Buxton	0·3	60	48	bc	bc	6·1
Midlands.	Leamington Spa	1	64	47	c. er	c.bc	11·1
Midlands.	Malvern	-	65	51	bc	bc	10·9
Midlands.	Ross-on-Wye	1	70	50	bc	bc.c	10·2
Wales.	Rhyl	-	60	52	bc	bc	7·5
Wales.	Colwyn Bay	-	62	50	bc	bc	8·3
Wales.	Llandudno	-	64	51	c	bc	7·6
Wales.	Aberystwyth	-	61	53	c.bc	b.bc	10·0
Wales.	Tenby	-	66	52	c	b	8·6
England. E.	Cromer	-	64	52	c.o.c	c.bm	6·3
England. E.	Lowestoft	-	69	52	bc.c.bc	bc	7·4
England. E.	Felixstowe	3	67	53	cp	bc	5·5
England. E.	Walton-on-Naze	11	66	53	o m.o c	b. c	5·8
England. E.	Southend-on-Sea	4	73	55	r.o.c.bc	bc	7·0
England. S.E.	Tunbridge Wells	-	69	54	o.c	c.bc	3·0
England. S.E.	Margate	2	65	53	c	c	0·5
England. S.E.	Ramsgate	4	63	59	o	o	0·6
England. S.E.	Hastings	1	63	53	o p	o.bc	1·7
England. S.E.	Bexhill-on-Sea	1	62	53	o c	r.o c	1·9
England. S.E.	Eastbourne	0·3	66	53	o.bc	bc	4·0
England. S.E.	Seaford	7	68	51	o.bc	b	5·4
England. S.E.	Brighton	-	69	54	c.bc	bc.c	5·1
England. S.E.	Worthing	-	69	53	c	bc	6·0
England. S.E.	Littlehampton	-	67	61	o	bc	5·0
England. S.E.	Bognor	-	67	55	o.bc	o.bc.c	6·5
England. S.E.	Southsea	-	70	56	bc	bc	5·6
England. S.E.	Bournemouth	-	68	49	bc	bc	7·5
England. S.W.	Weymouth	-	71	51	b.bc	bc	10·0
England. S.W.	Torquay	-	65	49	c.bc	c	5·8
England. S.W.	Paignton						
England. S.W.	Falmouth	-	66	52	c.o g	c.b	6·3
England. S.W.	Penzance						
England. S.W.	Newquay						
England. S.W.	Ilfracombe	-	62	51	bc.b	b	9·0
England. S.W.	Weston-super-Mare	-	66	53	b.bc.b	bc.b	6·8

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	53	59	6·9	71	51	41	-	c	c.bc	bc.b.
City (Bunhill Row)	*	*	8·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	54	71		70	50	45	-	b.bc	bc	bc
Camden Sq. (Brit. Rainfall)	49	58	8·2	72	49	47	-	c.bc	bc	*
Hampstead (Reservoir)	*	63	9·0	70	47	34	-	bc	bc	bc
Richmond Park	*	*	9·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	51	59	9·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1860 Joules	31·6 Milliwatts.	81 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,								
Birmingham ,,	-	64	48	41	c	c	c.b	11·0
Oxford to 8 p.m.	*	67	52	50	o.r.c.b	b.bc	bc.b.	*
Teignmouth to 9 ,,	0·3	61	51	48	bcp.bc	bc	bc	7·3
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	69	55	54	o.c	c	c.bc.b	*

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

10th & 11th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·43 / 3·44	11·58 / 11·58	8·14 / 8·13
Greenwich	3·56 / 3·57	12·5 / 12·5	8·14 / 8·13
Wick	3·22 / 3·23	12·17 / 12·17	9·11 / 9·10
Valencia	4·34 / 4·35	12·46 / 12·46	8·58 / 8·58

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to between 65° and 70° in several parts of England and reached 73° at Southend-on-Sea. Considerable amounts of bright sunshine were recorded in Wales and the west of England, but showers fell in a few isolated parts of Great Britain.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 192 { Sunday 11th July 1915.

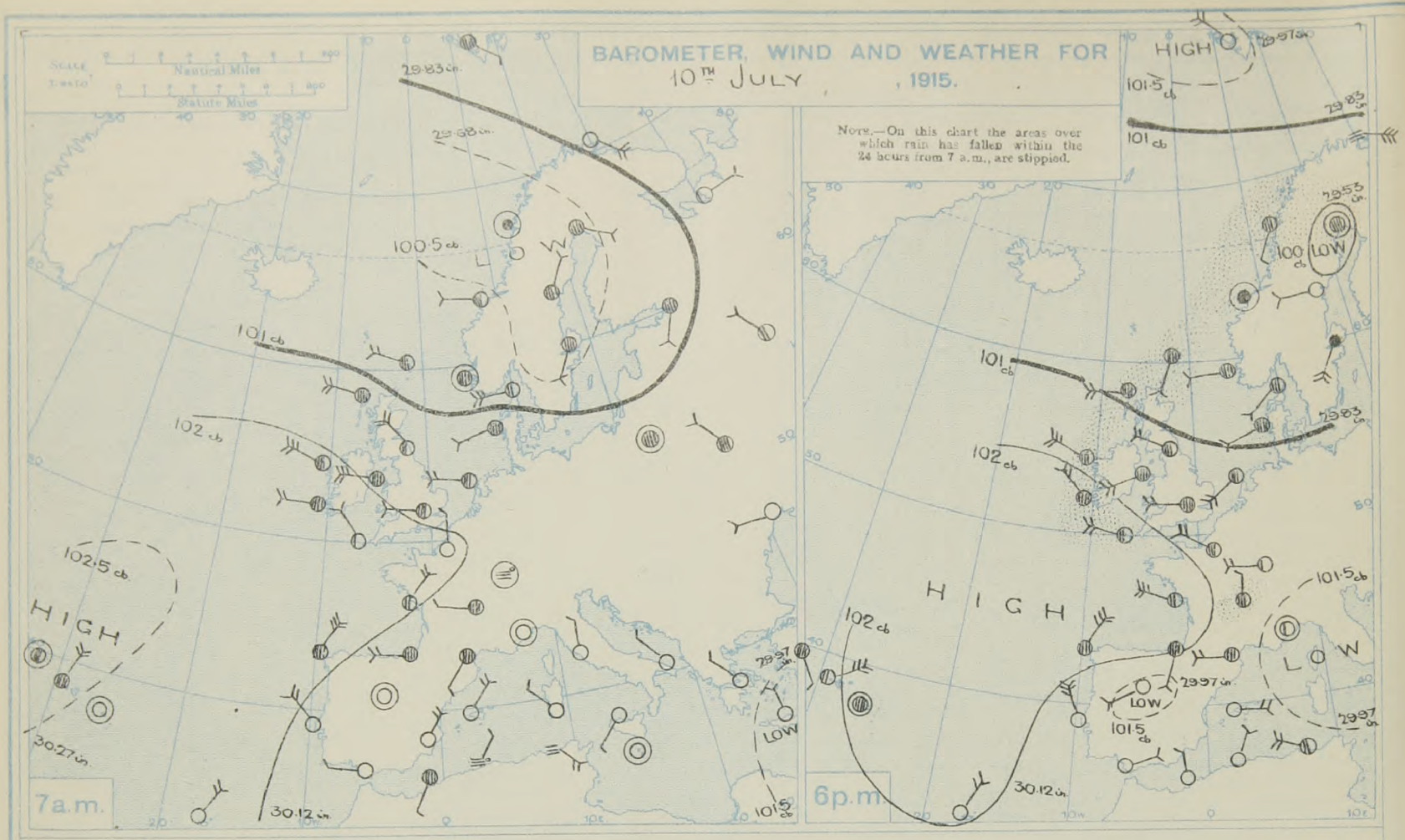
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1005.2	55	SSW	2	0	1000.6	-1	51	0	WNW	1	-	c	1	1	55	48	0	0	om.cp	*
	Deerness ...	1005.6	56	W	4	0	1001.5	*	51	-1	W	3	W	ou	0	1	56	48	o.c	c.od	m	1.7
	Stornoway ...	1008.8	54	W	4	opq	1004.2	-2	52	-2	W	4	-	oq	4	1	57	51	odpq	copq	odpq	0.2
	Castlebay (Barra Isd.)	1011.1	55	W	4	op	1006.7	-2	54	0	WNW	4	W	o	4	1	57	51	opm	opm	op.o	0.1
	Glasgow ...	1011.9	56	WNW	3	0	1006.5	-3	54	-1	W	3	NW	c	*	1	62	51	c	o	odp.o	3.1
	Eskdalemuir ...	1011.2	55	W	4	0	1007.3	-2	51	-5	W	4	-	o	*	1	63	49	c.o	o	ogp.o	3.1
	Malin Head ...	1014.5	54	W	6	omqc	1009.1	-2	55	-1	WNW	6	W	cq	6	2	58	53	cmqp	omqc	cq	0.5
	Blacksod Point	1014.1	55	WNW	5	cmp	1014.2	-2	55	+1	WNW	5	NW	cmp	4	1	61	52	cm	cmp	cmdm	*
	Valencia ...	1022.6	58	NW	3	0	1018.1	-2	56	0	NNW	3	-	cm	3	1	60	55	o	odp	o.od	0.0
	Roche's Point	1021.6	59	NNW	3	0	1017.3	*	57	0	WNW	3	-	o	2	0.4	63	55	op	o.cp.o	o	*
	Birr Castle ...	1018.9	59	W	3	0	1014.5	*	56	-1	W	3	-	c	*	-	64	54	c	c	c	1.7
	Donaghadee ...	1013.8	58	WNW	4	0	1009.7	-1	54	-2	WNW	4	NW	cgm	3	-	61	54	cg.qm	ogm	ggmqc	*
	Liverpool (Bidston)	1015.1	59	W	4	0	1010.5	-1	55	+1	W	5	W	o.gq	4	-	61	53	o	oq	oq	0.2
	Holyhead ...	1016.1	60	WSW	4	oq	1012.3	-1	56	0	W	5	W	c	4	-	64	54	o.c.bc	o.c.o	o.c.o.c	1.7
	Pembroke (St. Ann's)	1019.0	56	W	4	c	1015.0	-2	55	0	W	4	W	c	4	-	58	54	bcq	cq	c	1.0
	Scilly (St. Mary's)	1022.5	59	WNW	4	bc	1018.2	-1	56	-1	WNW	4	W	cqp	5	0.1	63	55	b.bc	c.cq.p	c.oq.p	7.8
	Falmouth ...	1021.2	61	WNW	3	bc	1017.3	-2	56	-1	WSW	2	-	o	1	Trace	64	55	b.bc.o	o.bc	bc.cp.o	6.2
	Jersey (St. Aubin)	1021.9	61	WNW	4	b	1017.2	*	59	-1	W	4	-	o	*	-	64	55	bc.b	b	o	11.5
	Portland Bill ...	1019.8	59	W	4	c	1015.1	-2	58	-1	W	5	-	q	4	0.2	64	56	bc	bc.c	c.o.cp	*
	Dungeness ...	1017.2	60	SW	4	bc	1013.8	-2	59	+2	SW	4	SW	o	4	-	65	56	bc	c.bc	bc.o	*
	Dover	1016.7	62	SW	4	b.c	1012.3	-2	59	0	WSW	4	W	o	3	-	67	57	bc.b.bc	b.bc	bc.c.o	8.0
	Wick	1008.3	54	WNW	4	bc	1002.8	-2	51	-1	WNW	2	-	o	2	1	58	49	omq	ompd	ompd	*
	Nairn	1009.2	58	N	4	oq	1003.9	*	53	-3	WNW	2	-	c	2	1	65	50	q.bc	q.bcq	u.p.c	2.8
	Aberdeen ...	1008.0	58	SE	2	0	1003.4	-1	55	-2	WNW	4	SW	c	2	Trace	65	53	c.o	c.o	op.c	2.4
	Leith	1009.3	59	WSW	3	0	1005.3	-2	55	-3	WSW	3	W	c	*	-	67	53	c	c.o	o	*
	Tynemouth ...	1010.2	61	WNW	3	cm	1006.6	-4	57	-2	WNW	2	W	b	2	-	66	53	o	c	b	*
	Spurn Head ...	1012.6	59	W	5	0	1009.4	-2	57	+1	W	6	-	cq	5	-	63	54	c.oq	oq	oq	1.2
	Yarmouth ...																					
	Clacton-on-Sea	1015.9	66	W	3	0	1011.6	-2	59	+3	W	3	W	o	2	-	68	55	bc.c	c	c.o	7.8
	Nottingham ...	1014.9	61	WNW	4	0	1010.3	*	55	0	WSW	3	W	o	*	-	63	55	c.o	o	o	2.0
	Bath	1018.5	60	WSW	2	0	1014.9	*	57	-2	W	1	W	o	*	-	65	56	bc.c.o	o.c	c	6.2
	Sth Farnborough	1017.2	63	WNW	3	0	1012.5	-1	58	+1	W	3	-	o	*	-	69	55	bc	o	o	6.1
	London (Kew Obsy.)	1016.9	64	W	3	0	1012.4	-2	59	+3	WSW	3	-	o	*	-	67	56	c.bc.c	c.o	o	6.7
NORTHERN EUROPE.	Spitsbergen ...	1013.9	59	-	0	b	1016.0	+2	41	+2	NW	4	*	b	*	*	241	36				
	Vardö	1008.6	45	ESE	6	b	1008.6	0	45	-7	E	2	-	fbc	2	*	52	45				
	Bodö	1003.1	48	SW	1	c	1002.4	0	50	0	-	0			0	1	52	45				
	Christiansund	1003.1	54	-	0	x	1000.4	-1	54	+4	NE	2	-	c	2	5	57	50				
	Skudesnaes ..	1004.2	54	W	2	0	1000.4	-3	54	0	-	0	-	o	2	-	57	48				
	Færder (X'tania Fjord)	1009.7	59	SW	6	b	1000.6	-2	57	+2	SW	4	SW	b	2	.	61	55				
	The Scaw (Skagen)	1006.7	59	WSW	1	c	1002.0	-2	55	-2	SW	2	-	o	2	.	63	52				
	Blaavands Huk	1009.3	57	WSW	2	0	1004.7	-3	55	0	WNW	1	-	o	2	5	61	52				
	Haparanda ...	999.9	57	-	0	0	1000.7	0	57	-4	S	2	-	x	*	6	63	54				
	Hernösand ...	1001.7	61	W	2	b	1002.4	0	59	+2	-	0	-	b	*	-	66	46				
	Stockholm ...	1003.9	59	SW	4	x	1003.8	-1	63	+6	SW	2	-	c	*	Trace	64	54				
	Wisby	1008.0	63	WSW	4	bc	1005.7	-2	61	+4	SSW	2	S	bc	*	-	64	54				
	Karlstad	1005.2	61	WSW	2	0	1002.4	-3	59	+2	SW	4	-	c	*	-	64	50				
	Petrograd (5 a.m. G.M.T.)	1009.5	61	SW	4	c	1008.8	+1	59	-2	SW	3	W	b	*	-	68	54				
FRANCE, &c.	The Helder ...	1018.9	61	SW	4	c	1008.3	-2	59	0	WSW	3	-	x	3	Trace	63	59				
	C. Gris Nez ...	1016.8	59	SW	6	c	1012.3	-1	58	-1	WSW	6	*	o	5	-	63	59				
	La Hève	1020.3	61	NW	4	bc	1015.0	*	59	-2	WSW	5	*	o	5	-	66	54				
	Ushant	1025.1	59	NNW	4	0	1019.9	*	59	+2	SSW	3	*	o	3	-	72	52				
	Brest (St. Mathieu)	1024.7	61	NNW	2	b	1020.6	-1	59	+4	NW	3	*	o	2	-	68	52				
	Rochefort (Ile d'Aix)	1020.6	67	WNW	5	bc	1020.7	0	60	-3	ENE	3	*	b	*	-	73	54				
	Biarritz	1020.7	64	SW	2	0	1020.3	-1	64	+2	SE	1	*	o	1	-	66	62				
	Paris	1019.4	68	NW	3	bc	1017.9	-1	57	-4	SSW	2	-	o	*	-	75	43				
	Belfort	1019.0	66	W	3	b	1018.4	*	63	0	W	2	*	c	*	2	73	53				
	Lyons	1019.8	68	N	1	c	1019.7	*	61	0	ESE	1	*	b	*	6	70	56				
	Nice	1013.2	73	-	0	b	1012.6	+1	73	+2	-	0	*	b	0	-	84	64				
	Perpignan ...	1016.2	81	W	3	c	1018.1	-1	75	0	N	2	-	b	*	-	90	63				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022.3	63	NE	5	0	1021.7	-1	61	0	NNE	4	-	o	3	?	64	59				
	Madrid (8 a.m.)	1014.1	82	WSW	2	b	1017.9	+2	70	+2	SE	1	-	b	*	-	86	57				
	Lisbon (9 a.m.)	1019.9	70	NNW	5	b	1019.4	0	63	0	NW	1	-	o	2	-	73	61				
	Gibraltar							*					*									
	Rome																					
	Malta (8 a.m.) ...	*	*	*	*	*	1016.0	+1	79	0	NW	3	-	b	1	-	86	72				
	Azores (Horta, 8 a.m.)	1013.9	*	NE	5	bc	1030.7	+2	66	-2	NNE	3	*	b	2	-	77	62				
	Madeira (Funchal)	1021.0	73	NE	3	b	1021.7	0	66	+2	N	2	-	bc	3	-	73	64				

RAINFALL.

Equivalents of Millimetres in Inches.

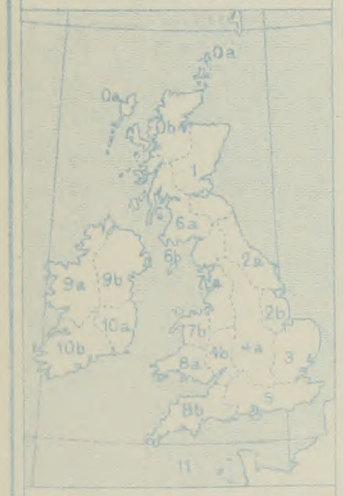
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

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

Westerly and North-Westerly winds, fresh and gusty in places; cool, cloudy, slight showers locally.

Moderate or fresh North-Westerly to Northerly winds, and a rather rough sea; fair; cool.

FURTHER OUTLOOK.

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

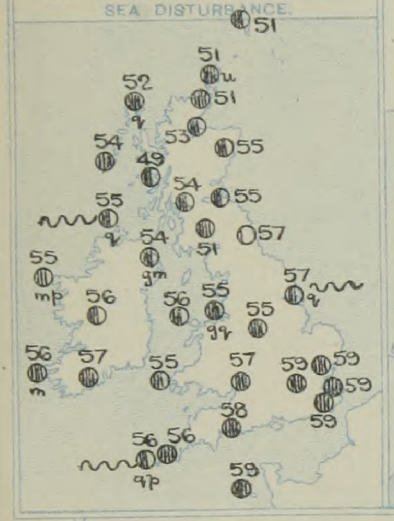
Millibars.
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 11TH JULY, 1915.

GENERAL INFERENCE.

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

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

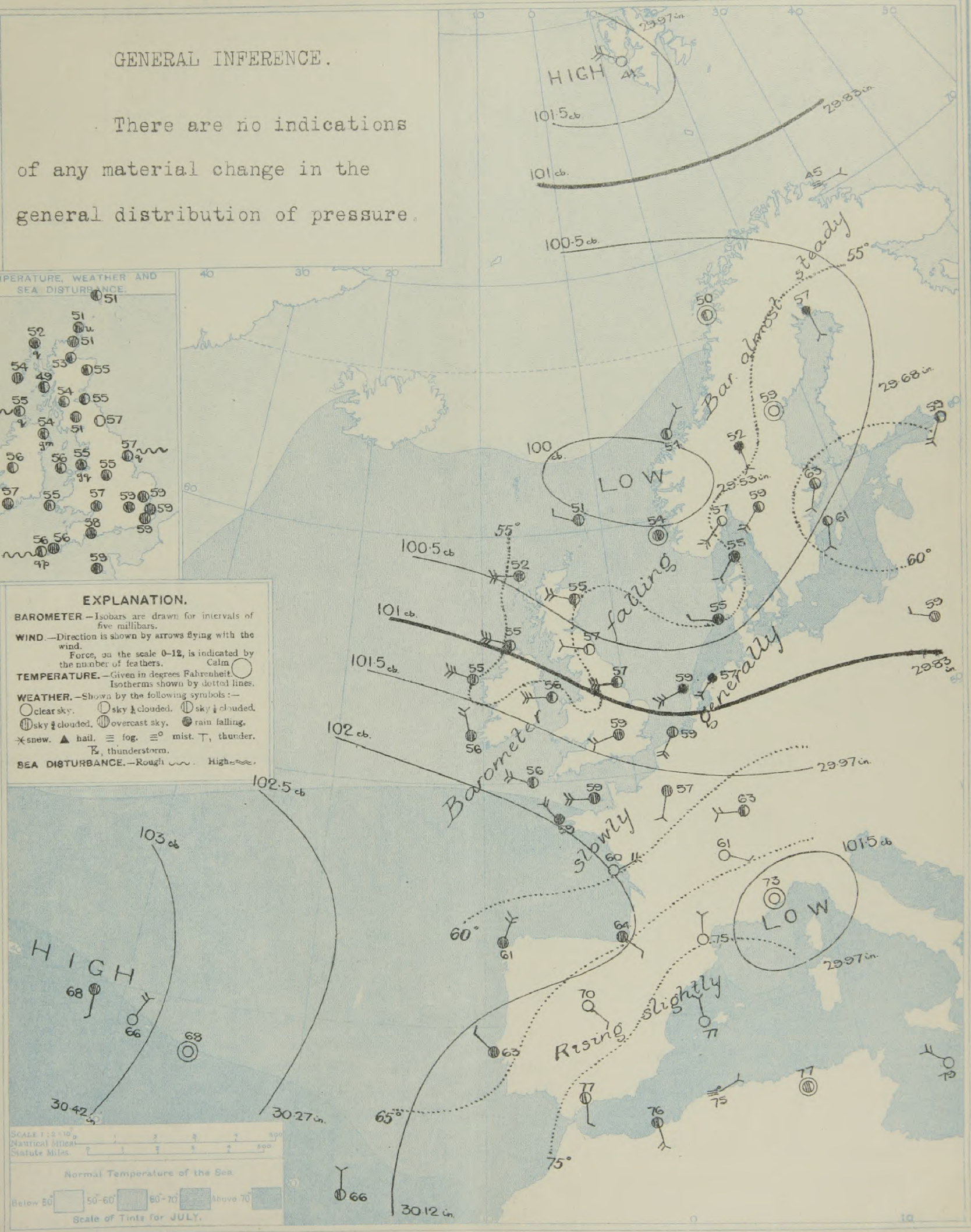
BAROMETER.—Isobars are drawn for intervals of five millibars.

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 ≈≈.



DAILY WEATHER REPORT. Sunday, 11th July 1915.

REPORTS FOR YESTERDAY.

10th July, 1915.

STATIONS.	Evening Observations: Baron. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0–12.	Weather.	Observations at 7 A.M., G.M.T.: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1004.7	63	E	4	c	1001.5	-1	61	-7	SE	2	–	o	*	5	73	57
Hernosand	1000.7	57	–	0	c	1001.1	0	57	0	NE	2	–	o	*	–	63	55
Stockholm	1002.9	59	W	4	o	1002.7	0	57	-2	SW	2	–	o	*	5	66	55
Wisby	1004.0	64	WSW	4	b	1008.0	+2	57	-7	WNW	6	–	o	*	–	68	55
Karlstad	1002.1	59	SSW	2	o	1004.6	+3	57	-4	WNW	4	–	o	*	13	66	54
Petrograd	1004.7	70	E	1	o	1009.0	0	61	-3	SW	1	–	o	*	7	79	55
Lisbon	1005.0	68	NNW	4	b	1013.9	+1	63	+2	NW	3	–	b	2	–	72	61
Rome	1016.8	75	–	o	b	1016.8	o	75	–	–	o	–	b	*	5	40	46

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	62	52	cr	a	0.5
Scotland.	Banff	–	71?	48	bc.o.c	c.o.g	7.8
Scotland.	Carnoustie						
Scotland.	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	65	50	b	b.bc.c	8.7
Eng. N.E.	Skegness	–	66	47	c.o	c.o	7.6
Eng. N.W.	Morecambe						
Eng. N.W.	Blackpool	–	63	55	c.o	c.o	1.0
Eng. N.W.	Southport	–	61	54	o	o	0.3
Midlands.	Buxton	1	57	48	bcr	bc	0.2
Midlands.	Leamington Spa	–	65	49	bc.c	c	5.8
Midlands.	Malvern						
Midlands.	Ross-on-Wye	–	67	48	o.bc	bc.cod	4.0
Wales.	Rhyl	–	61	53	c	bc	0.6
Wales.	Colwyn Bay						
Wales.	Llandudno						
Wales.	Aberystwyth	–	60	55	cm.o	c.o	0.0
Wales.	Tenby	–	66	50	o.bc	o	0.9
England. E.	Cromer	–	67	52	bc.c	c.bc.c	6.4
England. E.	Lowestoft						
England. E.	Felixstowe	–	69	49	bc	bc	9.9
England. E.	Walton-on-Naze	0.3	64	48	bc.c	bc.cu	7.8
England. E.	Southend-on-Sea	–	69	50	b.bc	bc.c	6.2
England. S.E.	Tunbridge Wells	–	69	48	b.bc	bc.o	7.9
England. S.E.	Margate	–	69	55	bc	bc	9.4
England. S.E.	Ramsgate	–	67	48	bc	c	8.4
England. S.E.	Hastings	–	65	52	oc.bc	o.bc.b	6.3
England. S.E.	Bexhill-on-Sea	–	62	53	c	c.oc	3.7
England. S.E.	Eastbourne	–	63	52	b.bc	bc	7.5
England. S.E.	Seaford	–	64	50	b	bc.c	7.6
England. S.E.	Brighton	–	65	52	c.bc	bc.c.o	6.8
England. S.E.	Worthing	–	66	53	bc	c.o	8.2
England. S.E.	Littlehampton						9.0
England. S.E.	Bognor	–	68	51	bc	bc	7.7
England. S.E.	Southsea						
England. S.E.	Bournemouth	–	68	48	bc	bc.o	9.0
England. S.W.	Weymouth	–	67	50	b.bcb	bc	7.0
England. S.W.	Torquay	–	64	50	o.c.bc	c.o	4.9
England. S.W.	Paignton	–	66	48	bc	o	4.6
England. S.W.	Falmouth	–	64	51	b.bc.o	o.bc	5.3
England. S.W.	Penzance	–	67	54	b	bc	8.3
England. S.W.	Newquay	–	61	56	bc.o	o.bc	4.5
England. S.W.	Ilfracombe	–	61	56	bc.c	c.o	4.0
England. S.W.	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.§	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
Greenwich (Royal Obsy.)	55	80	8.9	71	57	53	–	c	o	o
City (Bunhill Row)	*	*	6.4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	65	85	7.5	70	62	56	–	bc.o	o	o.bc
Camden Sq. (Brit. Rainfall)	50	70	5.5	71	57	56	–	bc.c	c.o	*
Hampstead (Reservoir)	*	75	5.5	66	54	46	–	bc.o	o	o
Richmond Park	*	*	6.7							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.)	52	59	6.7

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1658 Joules	28.3 Milliwatts.	95 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	–	64	54	50	c.o	o.c	c.b	
Darwen to 9 p.m.	2.1	58	51	48	bc.o.gr	o.g	o.g	0.4
Manchester ,,								
Birmingham ,,	–	63	50	41	*	c	c.o	4.7
Oxford to 8 p.m.	*	67	50	44	b.o.c	c	c.o	*
Teignmouth to 9 ,,	–	65	52	49	bc	bc	c	4.5
Plymouth ,,	–	65	50	43	cw	bcw	bcw	2.8
S. Kensington (Museum Grounds to 6 p.m.)	–	70	52	46	b	c.o	o	*

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

11th and 12th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3.44 / 3.45	11.56 / 11.58	8.13 / 8.12
Greenwich	3.57 / 3.58	12.5 / 12.5	8.13 / 8.12
Wick	3.23 / 3.25	12.17 / 12.17	9.10 / 9.9
Valencia	4.35 / 4.36	12.46 / 12.46	8.58 / 8.57

NOTES ON YESTERDAY'S WEATHER.

The thermometer rose to 65° and upwards in most parts of Great Britain, and reached 70° at Westminster and South Kensington. The amount of bright sunshine was, as a rule, somewhat small, and showers fell locally in many of the western and northern districts.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 193. Monday, 12th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	999·1	51	WNW	2	om	999·7	—	49	−2	N	2	—	0	2	1	54	44	0	om	0	*
	Deerness ...	999·3	51	WNW	3	op	1001·0	*	49	−2	NW	3	NW	op	0	2	54	47	odp	op	op	0·9
	Stornoway ...	1003·2	51	NW	5	opq	1004·3	+1	60	−2	NNW	3	—	0	3	2	56	48	ocpq	copq	copq	1·9
	Castlebay (Barra Isd.)	1004·7	54	WNW	3	0	1005·2	0	51	−3	NW	3	W	op	3	2	57	49	0	op	ocdop	1·6
	Glasgow ...	1004·2	55	W	4	c	1004·4	+1	53	−1	WNW	3	W	bc	*	—	62	48	cpc.bc	bc.c	c.bc.b	4·8
	Eskdalemuir ...	1004·5	56	W	4	c	1004·3	0	53	+2	WSW	4	—	c	*	Trace	61	47	ocq	bc.c	cpq.c	5·6
	Malin Head ...	1006·4	55	NW	5	cqp	1005·5	0	52	−3	NW	3	NW	cp	3	8	57	50	cq	cqp	cp	1·7
	Blacksod Point	1010·1	55	WNW	5	cmd	1009·1	0	52	−3	WNW	5	NW	cq	4	1	62	51	cmp	cmp	cm	*
	Valencia ...	1014·5	59	W	3	0	1012·9	0	57	+1	W	3	W	0	4	0·3	61	55	0	0	o.c.o	0·7
	Roche's Point	1014·2	61	WNW	3	0	1013·3	*	57	0	WNW	2	NW	c	2	—	63	53	0	0	obc.c	*
	Birr Castle ...	1010·2	58	W	4	c	1010·0	*	55	−1	W	2	—	0	*	1	61	50	c	c	cp o	1·9
	Donaghadee ...	1006·4	57	SE	3	cm	1005·9	0	54	0	WNW	2	W	cgm	2	0·2	63	52	cm	cm	cm.cgm	*
	Liverpool (Bidston)	1007·4	59	W	4	bc	1006·9	0	55	0	W	4	W	o	3	—	62	54	o.bcq	bc.o	oq	4·1
	Holyhead ...	1009·8	56	SW	3	cg	1007·8	0	55	−1	W	5	NW	og	4	4	62	54	ocp.o	o.c.op.c	cp.opc	0·3
	Pembroke (St. Ann's)	1011·8	57	W	5	c	1011·0	+1	55	0	WSW	3	NW	C	3	—	61	54	c	c	c	0·2
	Scilly (St. Mary's)	1014·9	60	W	5	cq	1013·7	0	56	0	WNW	4	W	c	5	1	63	55	c.o	o.cq	cmp	5·7
	Falmouth ...	1014·2	61	WNW	3	c	1012·9	+1	59	+3	WNW	3	—	o	2	—	64	56	o.bc.o	c.bo.cb	c.o	4·1
	Jersey (St. Aubin)	1015·7	60	WSW	5	o	1014·1	*	60	+1	WSW	5	SW	c	3	0·3	63	56	o c.o	o c.o	ogp.c	0·7
	Portland Bill ...	1012·2	58	WSW	4	c	1010·8	+1	59	+1	WNW	4	W	bc	4	—	60	56	c	c	c.b.c	*
	Dungeness ...	1010·3	60	SW	5	0	1009·6	+1	61	+2	SW	5	SW	bc	5	—	64	57	o	o	o.bc	*
	Dover	1010·0	60	SW	4	0	1008·6	0	62	+3	W	3	W	b	4	—	65	54	oc	c.o	o.c.bc.b	0·3
	Wick	1000·5	51	NW	4	0	1001·5	+2	50	−1	NW	3	NW	0	2	4	56	47	omp	omp	omp	*
	Nairn	1001·5	55	WNW	3	0	1003·0	*	52	−1	—	0	—	og	1	—	63	48	qgc	gcu	uc	2·7
	Aberdeen ...	1001·1	55	NW	3	cp	1002·5	+1	50	−5	WNW	3	—	op	2	1	63	47	c.o	op.c	c.bc.op	3·8
	Leith	1002·5	63	W	4	bc	1003·7	+2	53	−2	WNW	2	NW	c	*	—	64	49	c	c.bc	bc.c	*
	Tynemouth ...	1004·0	62	WNW	2	bc	1003·6	0	55	−2	NW	2	N	bc	2	—	66	50	c	bcp	bc	*
	Spurn Head ...	1006·1	60	WNW	6	bc	1006·1	0	51	−6	WNW	6	—	bcq	5	—	64	53	cq	bcq	beq	3·2
	Yarmouth ...																					
	Clacton-on-Sea	1009·2	63	W	4	o	1007·8	0	58	−1	W	4	NW	o	3	—	66	55	o.c	c.o	o.c.o	0·6
	Nottingham ...	1007·7	60	W	3	o	1006·7	*	56	+1	W	3	W	bcm	*	2	65	53	o.c	c.o	op	3·6
	Bath	1012·2	59	W	3	o	1009·8	*	58	+1	W	2	W	c	*	0·3	63	53	og	og	og.c	0·0
	Sth Farnborough	1010·3	60	W	3	o	1009·0	+1	58	0	W	3	W	bcv	*	—	65	55	0	o	o bc	0·9
	London (Kew Obsy.)	1010·0	61	WSW	3	o	1008·9	+2	58	−1	WNW	3	—	ou	*	—	64	55	o	o	o.bc.ou	0·0
NORTHERN EUROPE.	Spitsbergen ...	1017·6	50	S	2	b	1016·8	+1	46	+5	—	0	*	b	*	*	50	41				
	Vardö	1008·7	46	NE	3	b	1007·4	0	46	+1	ENE	1	—	0	2	*	46	41				
	Bodö	1002·6	50	ENE	2	b	1000·3	0	52	+2	NNE	1	—	b	1	—	52	46				
	Christiansund	999·3	54	E	2	c	997·1	0	54	0	WNW	1		0	2	1	57	50				
	Skudesnaes ..																					
	Færder (X'ianiaFjord)	997·7	57	SSW	3	0	996·2	0	55	−2	SSE	2	—	0	1	1	59	54				
	The Scaw (Skagen)	998·1	57	WSW	1	0	997·2	0	57	+2	SW	2	SW	0	3	2	61	52				
	Blaavands Huk	1001·6	57	WNW	2	c	1000·3	0	55	0	WNW	2	NW	bc	3	4	61	52				
	Haparanda ...	1002·0	63	S	2	b	1000·7	—	61	+4	S	2	—	0	*	1	66	52				
	Hernösand ...	1001·2	63	S	2	b	999·9	0	61	+2	NE	2	—	b	*	—	64	52				
	Stockholm ...	999·9	61	S	2	0	997·1	0	59	−4	S	2	—	0	*	1	68	55				
	Wisby	1002·1	61	S	2	b	998·4	−2	61	0	W	2	—	b	*	—	66	55				
	Karlstad	999·1	61	SW	2	c	997·0	−1	57	−2	—	0	—	0	*	—	64	62				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1006·9	61	WSW	4	c	1004·4	0	55	−4	WSW	4	—	r	2	Trace	63	55				
	C. Gris Nez ...	1010·6	57	WSW	5	o	1007·0	+3	59	+1	WSW	4	*	b	4	—	61	57				
	La Hève	1013·6	59	W	5	o	1011·5	*	58	0	WNW	5	*	o	5	2	63	54				
	Ushant	1017·1	59	NW	4	o	1015·7	*	59	0	NW	3	*	c	3	—	64	54				
	Brest (St. Mathieu)	1018·0	62	NW	4	o	1016·7	0	59	0	W	3	*	c	2	—	68	57				
	Rochefort (Ile d'Aix)	1018·7	65	WNW	5	bc	1017·6	0	63	+3	NW	3	*	o	*	—	70	59				
	Biarritz	1018·6	68	N	2	o	1017·7	0	63	−1	E	2	*	o	1	—	72	61				
	Paris	1014·4	64	WSW	3	0	1013·9	+1	59	+2	WSW	3	—	o	*	—	68	55				
	Belfort	1013·5	68	WSW	6	c	1016·6	*	57	−6	W	6	*	c	*	—	74	49				
	Lyons	1015·3	74	NW	2	b	1016·8	*	64	+3	—	0	*	b	*	—	78	55				
	Nice	1011·8	73	—	0	b	1012·4	+1	73	0	S	1	*	b	0	—	82	61				
	Perpignan ...	1015·1	81	NW	2	b	1016·2	+1	75	0	WNW	2	—	b	*	—	93	63				
	Sanguinaire ...	*	82	W	3	m	*	*	74		E	3	*	m	4	—	84	68				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019·8	64	NE	6	c	1016·6	−2	63	+2	NE	5	—	0	3	—	66	59				
	Madrid (8 a.m.)	1012·3	66	SW	1	b	1011·4	−2	75	+5	NE	1	W	bc	*	—	88	66				
	Lisbon (9 a.m.)	1015·1	70	NNW	4	b	1012·2	−1	61	+2	SW	3	—	b	2	—	75	54				
	Gibraltar	1013·5	75	E	3	c	1014·2	*	73		E	4	*	bc	2	—	82	65				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1015·7	+1	75	−4	NW	3	—	b	1	—	90	72				
	Azores (Horta, 8 a.m.)	1031·8	*	E	1	b	1030·9	0	64	−2	—	0	*	bc	1	—	77	63				
	Madeira (Funchal)	1019·3	73	N	3	bc	1020·3	0	66	0	N	3	—	0	3	—	73	64				

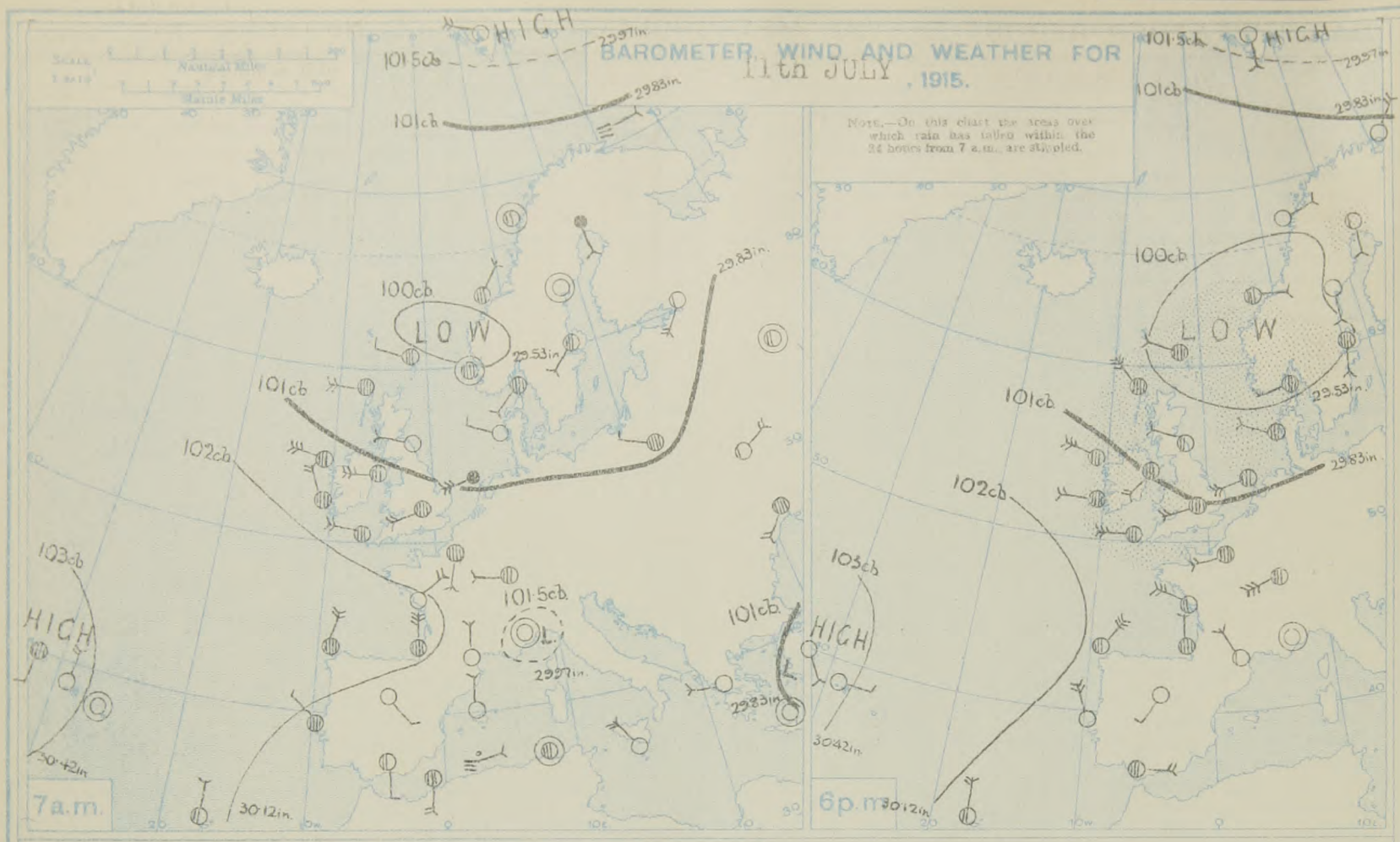
RAINFALL.

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 JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 (a, b), 1 — Light to moderate North-Westerly winds; cool, cloudy, local showers.

2 (a, b), 3, 4 (a, b), 5 — Moderate Westerly winds; fair generally, remaining rather cool.

6 (a, b) — Same as Nos 0 to 2.

7 (a, b) — Moderate or fresh North-Westerly winds; fair generally, but slight showers locally, rather cool.

8 (a, b) — Same as Nos 3 to 5.

9 (a, b) — Same as No 7.

10 (a, b) — Same as Nos 3 to 5.

Western Channel and Bay 11 — Moderate North-Westerly winds northern part, but Northerly or North-Easterly winds further south; sea moderate; fair, but cool.

FURTHER OUTLOOK.

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

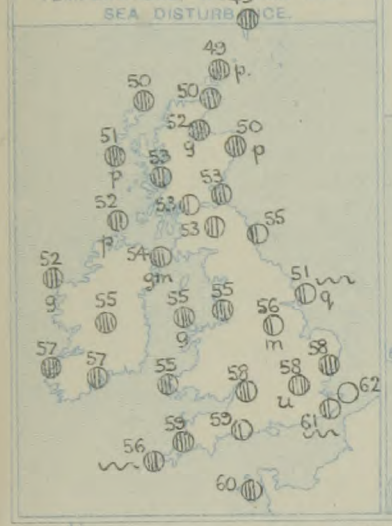
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970

SYNOPTIC CHART FOR 7 a.m., MONDAY, 12th JULY, 1915.

GENERAL INFERENCE.

There are no indications of any material change in the general conditions. The Westerly to North-Westerly type of weather is likely to continue.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High

HIGH ◎ 101·5cb 29·97in. 101cb. 29·83in. 100·5cb 29·68in. 100cb 29·53in. 100cb 100·5cb 101cb 101·5cb 102cb 102·5cb 103cb HIGH ◎ 30·42in. 30·27in. 30·12in. 29·97in. 29·97in. 29·97in. 29·97in. 29·97in. 29·68in. 29·83in. 29·97in. 101·5cb

Steady LOW

Barometer falling places

50° 60° 70°

Scale 1 : 2 × 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 3 4 500

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Monday, 12th July 1915.

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

Station Date & Hour		Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Farnborough 5h	7h.18m.	S. Farnborough 5h	11h.50m.	S. Farnborough 6h	7h.18m.	S. Farnborough 6h	2h.1m.	S. Farnborough 9h.	7h.6m.	S. Farnborough 9h	11h43m.	S. Farnborough 10h	6h.59m.	Benson 9h	12h 1m				
Heights in Kilometres.	3			+7	+5	+5	+5	+3	+8					+10	-8						
	2	+5	0	+8	+1	0	+3	0	+4	+4	-2	+5	-2	+8	-5						
	1	+1	-2	+8	+2	-1	+3	-2	+9	+2	-4	+5	-3	+8	-3	+6	-2				
	0.5	+2	-5	+6	+1	+1	+2	0	+7	+1	-6	+4	-2	+5	-3	+5	-2				
	0																				

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	58	50	od.	bc.c	2.0
	Banff	1	60	52	c	bc.pc	1.7
	Carnoustie	-	66	51	bc.o	b.	7.6
	St. Andrews				*	*	
Eng. N.E.	Harrogate	2	61	52	bc.c.o	c.bc.b	4.5
	Skegness	-	64	55	c. bc	bc.c	3.8
Eng. N.W.	Morecambe						
	Blackpool	-	63	55	c	c	2.4
	Southport	-	61	54	oc	c	2.6
Midlands.	Buxton	1	58	50	bcd	bc	1.4
	Leamington Spa	-	66	46	c.bc	bc.c	5.0
	Malvern	-	63	55	c	c	1.5
	Ross-on-Wye	-	64	55	bc.cd	bc.c	0.1
Wales.	Rhyl	-	63	53	bc	op	1.4
	Colwyn Bay	-	61	53	bc	bc.o	0.4
	Llandudno	-	63	55	c.o	c	2.0
	Aberystwyth	0.3	60	56	no.c	c.o	0.2
	Tenby						
England. E.	Cromer	-	66	55	o.c	o c	1.8
	Lowestoft	-	67	57	o.c	c.o cu	2.8
	Felixstowe	-	66	57	c	c	1.0
	Walton-on-Naze	-	64	57	o.c	bc.oc	0.9
	Southend-on-Sea	-	65	58	o	o	0.0
England, S.E.	Tunbridge Wells	-	64	55	o	o	0.1
	Margate	-	64	57	o	o	0.0
	Ramsgate	-	64	55	o	o	0.0
	Hastings	-	64	56	o	c.o	0.0
	Bexhill-on-Sea	-	64	51	c	c.o	2.3
	Eastbourne	-	63	59	o	o	0.0
	Seaford						
	Brighton	-	64	58	o.c	o.c.o	0.1
	Worthing	-	65	53	c	c.o	0.2
	Littlehampton	-	68	54	o	o	0.3
	Bognor	-	65	59	o.bc.o	o	0.7
	Southsea	-	64	57	o	o	0.0
	Bournemouth	-	64	56	o	o	0.2
England, S.W.	Weymouth	-	64	57	o	o	0.0
	Torquay	-	64	57	o	q.o	0.2
	Paignton	1	64	56	o	op.o	
	Falmouth	-	64	55	o bc.o	c bc.o.bc	3.9
	Penzance						
	Newquay	-	62	56	c.o	o	1.5
	Ilfracombe	0.3	60	56	o	cp. c	0.1
	Weston-super-Mare	0.3	61	55	bc.c	c	0.3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	63	68	0.0	65	54	47	-	o.c	c	c
City (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	79	0.0	64	55	51	-	bc.o	o	o.bc
Camden Sq. (Brit. Rainfall)	*	60	0.2	67	54	51	-	*	*	*
Hampstead (Reservoir)	*	70	0.0	62	56	41	-	o	o	o.bc
Richmond Park	*	*	0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	64	70	0.0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
741 Joules	12.7 Milliwatts.	32 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	62	55	53	o.c	c	pc	*
Darwen to 9 p.m.								
Manchester ,,								
Birmingham ,,	0.3	64	53	50	*	c	c	4.2
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	64	54	56	o	o.c	c	6.2
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	65	58	56	o	o	o	*

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

12th-13th July. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3. 45	11. 58	8. 12
	3. 46	11. 58	8. 11
Greenwich	3. 58	12. 5	8. 12
	3. 59	12. 5	8. 12
Wick	3. 25	12. 17	9. 9
	3. 27	12. 17	9. 8
Valencia	4. 36	12. 46	8. 57
	4. 37	12. 48	8. 56

NOTES ON YESTERDAY'S WEATHER.

Over the greater part of the United Kingdom the thermometer failed to reach 65°, and at several places in the west and north of Scotland it did not touch 60°. Local showers were experienced in most districts.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 194. Tuesday, 13th July, 1915.

DATE.	STATIONS	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1003·9	49	NNW	4	o	1005·8	0	51	+2	–	0	–	bc	0	–	53	41	0	0	bc	*
	Deerness ...	1005·7	50	WNW	6	c	1006·8	*	54	+5	S	3	S	b	1	–	55	47	ofbq	o.c	o.c.bc.b	0·7
	Stornoway ...	1007·3	52	ESE	3	c	1006·0	-2	53	+3	SSW	3	–	o	3	0·3	57	43	o.c	c	bc.b.o	2·4
	Castlebay (Barra Isd.)	1008·1	54	W	3	bc	1005·8	-1	54	+3	WSW	3	SW	c	3	2	57	48	op.cf	bc	bc.bo.c	8·0
	Glasgow ...	1006·7	59	WNW	3	bc	1008·4	?	51	-2	W	2	–	c	*	?	61	36	c o.c	cp.c	bc.b.o	9·3
	Eskdalemuir ...	1006·9	59	WNW	3	cw	1009·1	0	50	-3	SE	2	–	b	*	–	61	35	c	c	cw.bc	9·3
	Malin Head ...	1009·0	55	W	3	bcgr	1007·7	-2	51	-1	SW	3	W	cm	3	8	57	50	bc	bcpr	cmp	6·6
	Blacksod Point	1011·7	55	WNW	5	bcp	1009·8	-4	51	-1	WSW	3	W	cgp	2	2	59	49	bc	bcp	bcp.cm	*
	Valencia ...	1014·4	59	WNW	4	c	1012·5	-1	55	-2	S	1	NW	o	4	1	61	53	ofp	c	c op.o	5·4
	Roche's Point	1013·7	61	NNW	4	bc	1014·0	*	55	-2	WNW	1	–	o	1	–	64	51	c	c.bc	bc.c.o	*
	Birr Castle ...	1011·7	58	W	3	c	1011·1	*	55	-0	SW	1	SW	c	*	0·2	63	50	cp	c	cp	5·8
	Donaghadee ...	1008·7	56	N	3	bc	1009·0	0	52	-2	SW	3	SW	cm	2	2	58	46	bcp	bcp	bcp.cm	*
	Liverpool (Bidston)	1009·1	60	W	4	b	1010·2	0	54	-1	W	1	W	og	2	1	62	51	o.bcp	bc	o	6·3
	Holyhead ...	1009·8	61	SW	3	bc	1010·7	0	55	0	W	2	–	c	1	–	62	51	cg	bc	bc	4·9
	Pembroke (St. Ann's)	1011·8	57	W	4	b	1012·2	-1	53	-2	NW	2	NW	c	2	–	59	53	c	bc	bc.b	7·0
	Scilly (St. Mary's)	1014·4	61	WNW	2	b	1012·2	-2	57	+1	NNW	1	W	c	2	–	64	52	c	bc.b	b.bc	9·3
	Falmouth ...	1013·4	62	WNW	3	b	1011·7	-2	58	-1	NNW	2	–	bc	2	–	66	50	o.bc	b	b.bc	11·5
	Jersey (St. Aubin)	1014·9	62	WNW	4	b	1012·1	*	58	-2	N	2	–	o	1	–	65	50	c.b	b	b.o	11·3
	Portland Bill ...	1012·5	59	WSW	4	b	1011·6	-2	56	-3	N	1	S	c	2	–	61	54	bc	bc	b.bc	*
	Dungeness ...	1010·3	62	SW	5	c	1012·0	0	58	-3	NW	2	W	b	1	–	65	48	bc	bc	bc.bw	*
	Dover	1010·5	62	SW	4	bc	1011·3	-1	59	-3	SE	0	–	bc	2	–	67	48	bc.c.bc	bc o.bc	bc b.bc	8·2
	Wick	1006·1	51	NW	3	c	1007·1	-1	52	+2	W	3	–	bc	1	1	52	44	omp	omp.cq	c.bc	*
	Nairn	1006·4	52	–	0	cdg	1007·0	*	53	+1	WSW	2	–	bc	2	3	57	41	cp.cd	cpq.r	cg	9·6
	Aberdeen ...	1006·4	54	NW	3	c	1007·8	o	53	+3	SSW	1	–	c	2	2	57	42	o/o	oc	bc.b	1·0
	Leith	1005·5	58	NW	2	r	1008·2	+1	54	+1	W	2	–	b	*	3	64	47	c	c.op	cp	*
	Tynemouth ...	1005·9	54	ESE	2	c	1008·3	+1	52	+3	WNW	2	–	bc	2	2	59	47	bc	bc	bcp	*
	Spurn Head ...	1008·3	58	WNW	6	c	1010·6	+1	55	+4	WNW	4	–	bcm	4	2	62	50	p.cq	cqr	cq/cp	4·7
	Yarmouth ...																					
	Clacton-on-Sea	1009·4	65	W	3	c	1011·5	o	57	-1	WNW	2	–	bc	0	–	68	48	o.c	c.bc	bc	4·7
	Nottingham ...	1008·7	60	W	4	b	1010·9	*	53	-3	SW	1	SW	c	*	0·3	64	47	c.op	cp.b	b	6·4
	Bath	1011·5	63	W	3	c	1011·2	*	57	-1	W	1	SW	bc	*	–	66	46	c.o	c.o	oc.bc.bc	9·6
	Sth Farnborough	1010·4	64	W	3	bc	1011·3	+1	55	-3	WSW	1	W	bcw	*	–	67	44	c.bc	bc	b.bc	9·3
	London (Kew Obsy.)	1010·1	64	WNW	2	c	1011·8	-1	55	-3	WSW	1	W	bm	*	–	67	47	ou.c	c	c.bc.b.bm	8·0
NORTHERN EUROPE.	Spitsbergen ...	1013·5	45	N	1	bc	1012·0	o	48	+2	–	o	*	bc	*	*	48	39				
	Vardö	1006·4	43	ENE	2	f	1003·9	o	45	-1	ENE	4	–	f	1	*	48	43				
	Bodö	998·6	54	N	2	b	997·2	o	52	o	–	o	–	c	o	–	51	48				
	Christiansund	998·6	52	SW	2	f	1001·1	+1	52	-2	W	2	–	r	2	Trace	55	50				
	Skudesnaes ..	998·4	55	NW	3	c	1003·1	+3	54	–	NW	4	–	c	2	–	57	32				
	Færder (X'iania Fjord)	995·9	61	SW	2	bc	997·1	+2	59	+4	N	2	–	c	1	–	63	55				
	The Scaw (Skagen)	998·6	57	WSW	3	bc	998·3	+1	59	+2	W	3	W	bc	3	–	61	50				
	Blaavands Huk	1002·6	55	WNW	3	o	1005·0	+1	55	0	WNW	4	–	c	5	Trace	59	52				
	Haparanda ...	998·3	59	NE	2	o	996·4	o	59	-2	–	o	–	c	*	1	64	50				
	Hernösand ...	997·5	59	SW	2	bc	997·1	o	57	-4	N	2	–	o	*	–	63	52				
	Stockholm ...	996·7	61	S	2	c	996·6	o	59	0	W	2	–	o	*	·7	64	52				
	Wisby	998·3	63	WSW	4	b	999·3	o	61	0	SW	4	SW	b	*	–	66	57				
	Karlstad	995·9	61	WSW	4	c	996·3	o	55	-2	W	2	–	r	*	6	66	50				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·5	59	SW	4	bc	1010·6	0	59	+4	W	2	–	b	2	4	63	55				
	C. Gris Nez ...	1010·7	60	WSW	6	bc	1011·8	-1	62	+3	SW	1	*	bc	1	–	63	62				
	La Hève	?	59	W	4	b	?	*	59	0	–	0	*	m	1	–	66	54				
	Ushant	1015·5	59	N	2	b	1012·4	*	56	-3	NNW	2	*	o	2	–	64	50				
	Brest (St. Mathieu)	1016·0	66	NW	2	b	1012·3	-3	57	-2	NNE	2	*	o	2	–	68	55				
	Rochefort (Ile d'Aix)	1015·1	66	NW	3	b	1005·5	-3	62	-1	ENE	4	*	tlr	*	Trace	72	61				
	Biarritz	1011·0	77	E	3	c	1008·2	o	67	+4	W	4	*	o	3	–	79	63				
	Paris	1013·5	68	W	3	b	1012·3	+2	61	+2	ENE	2	–	c	*	–	73	54				
	Belfort	1015·4	65	W	6	b	1014·9	*	59	+2	ENE	4	*	c	*	–	71	49				
	Lyons	1013·5	80	ESE	1	b	1014·3	*	59	-5	W	1	*	o	*	–	82	58				
	Nice	1011·0	75	–	o	b	1012·3	o	73	o	–	o	*	b	1	–	84	64				
	Perpignan ...	1012·3	77	NE	1	o	1010·6	o	73	-2	E	2	o	o	*	Trace	88	68				
	Sanguinaire ...	*	81	N	3	m	*	*	75	+1	N	2	*	m	3	–	86	69				
SOUTHERN EUROPE.	Corunna (7 a.m.)																					
	Madrid (8 a.m.)	1009·9	79	W	2	tlr	1014·3	+3	63	-12	WSW	3	–	c	*	1	90	57				
	Lisbon (9 a.m.)	1012·3	66	SSW	5	c	1015·7	+3	64	+3	WNW	3	–	b	5	4	70	68				
	Gibraltar	1016·2	70	W	5	o	1017·3	*	66	-7	W	3	*	b	2	–	82	64				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1014·4	+1	79	+4	NNW	2	–	b	1	–	88	73				
	Azores (Horta, 8 a.m.)	1030·1	*	NE	4	b							*									
	Madeira (Funchal)	1020·6	72	N	3	bc	1020·6	o	66	o	ENE	3	–	c	3	–	73	66				

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

Wind at 500 metres very light

Wind at 2000 metres WNW 10 m.p.h.

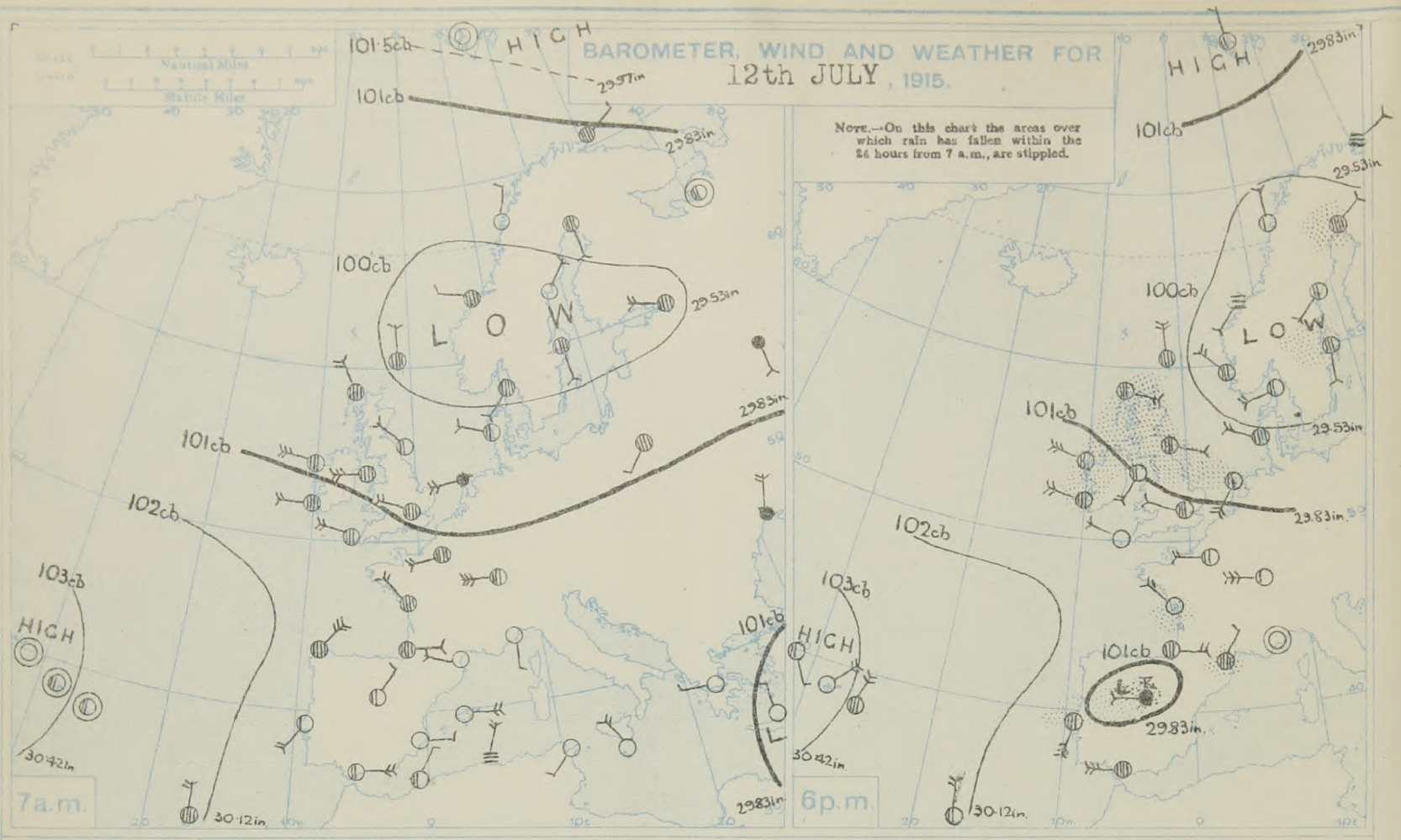
RAINFALL.

Equivalents of Millimetres in Inches.

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

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

BAROMETER, WIND AND WEATHER FOR 12th JULY, 1915.



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 to Southerly winds, light or moderate; cloudy to overcast, some rain; rather cool.
2 (a, b), 3, 4 (a, b), 5	Wind backing to the South-Westward, light to moderate; fair or fine to cloudy; moderate warmth.
6 (a, b)	Same as Nos 0 and 1.
7 (a, b), 8 (a, b)	Wind backing to South-West or South, light to moderate; cloudy to dull, some rain later; moderate temperature.
9 (a, b), 10 (a, b)	South-Westerly or Southerly winds, light to fresh; cloudy or overcast, some rain; rather cool.
Western Channel and Bay 11	North-Westerly to Westerly or South-Westerly winds, light or moderate; sea smooth or slight; cloudy, some fog later.

FURTHER OUTLOOK.

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

W. NAPIER SHAW, Director

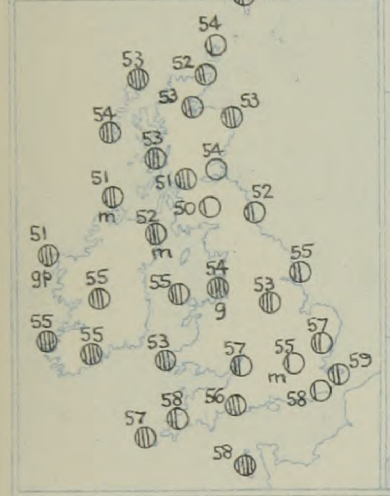
Millibars
1050
1040
1030
1020
1010
1000
990
980
970

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 13th JULY, 1915.

GENERAL INFERENCE.

The new depression causing the fall of the barometer in the west and northwest appears to be of considerable size, but there is at present no indication as to its depth.

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 ≈≈.

HIGH 29.83in 101cb 29.68in 100·5cb 29.53in 45 55° 100cb 52 59 57 LOW Barometer 100·5cb 52 57 59 60° 55 61 54 29.53in 29.68in 51 L O W 53 100·5cb 53 51 Barometer 52 55 59 29.83in 55° Barometer L O W 55 59 57 58 61 59 60° falling 101cb 60° 62 59 70° 100·5cb LOW 29.68in 29.83in 73 67 73 75 101·5cb rising 102cb Barometer 63 64 79 29.97in 66 HIGH 66 30·12in

SCALE 1:12·48
Nautical Miles 0 1 2 3 4 5°
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea

Below 50° | 50-60° | 60-70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Tuesday, 13th July, 1915.

REPORTS FOR YESTERDAY.

12th July.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1005·2	59	SE	2	r	999·4	+1	55	-4	WNW	3	–	0	*	13	68	54

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	0·3	60	48	bc	c.b	4·5
	Banff	3	54	49	gp.o	o.c.bc	0·2
	Carnoustie	12	60	48	c.or	r.ph.	1·5
	St. Andrews	2	62	49	*	*	4·8
Eng. N.E.	Harrogate	2	59	46	bc.cp	or.cbc.b	4·6
	Skegness	6	64	49	o.bcp	otr. bc	9·1
Eng. N.W.	Morecambe	4	61	54	c.bcr	bc.b	6·1
	Blackpool	1	63	55	op.c	b	8·0
	Southport	–	61	54	op.c.bc	b	6·8
Midlands.	Buxton	11	57	50	bcr	bcr	3·8
	Leamington Spa	0·2	65	52	c	c	6·2
	Malvern	–	63	53	bc.c	bc.c.	4·0
	Ross-on-Wye	–	69	53	bc.cv	bc.cg	5·7
Wales.	Rhyl	6	64	54	cp.c	bc	6·5
	Colwyn Bay	1	61	52	c	bc.b.	4·3
	Llandudno	2	64	53	c	bc.	5·6
	Aberystwyth	–	61	55	o.c.o	cb.o	2·5
	Tenby	–	64?	52	bc	b	7·9
England. E.	Cromer	3	64	51	bcp.o.c	cptl c	6·0
	Lowestoft	5	65	54	bc.c.o.c	c.op	7·0
	Felixstowe	–	67	55	bc	bc	3·5
	Walton-on-Naze	1	67	54	bc	bc	5·9
	Southend-on-Sea	–	68	55	o.c.bc	bc.b.bc	4·5
England, S.E.	Tunbridge Wells	–	67	52	o.bc	bc	7·7
	Margate	–	69	53	c	bc	6·4
	Ramsgate	–	68	52	c	bc	6·9
	Hastings	0·3	67	56	op.bc	bc	10·9
	Bexhill-on-Sea	–	65	51	c	c	10·2
	Eastbourne	–	64	58	b	b	10·8
	Seaford	–	63	58	o.b	b	9·7
	Brighton	–	65	58	c.bc	bc	8·3
	Worthing	–	65	56	c.b	b.bc	8·3
	Littlehampton	–	69	61	b	bc	8·4
	Bognor	–	66	56	bc	bc	9·0
	Southsea	–	67	56	bc	bc	8·6
	Bournemouth	–	67	53	c	c	7·0
England, S.W.	Weymouth	–	70	56	b.bc	b.bc	10·9
	Torquay	–	68	55	c.bc	bc	10·3
	Paignton						
	Falmouth	–	66	56	o.bc	b	9·6
	Penzance	–	67	56	b.bc	bc	10·7
	Newquay	–	62	57	bc.b	b	9·0
	Ilfracombe	–	61	56	c.bc.b	b	7·6
	Weston-super-Mare	–	64	55	bc.b	b.bc.b	9·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	47	69	9·2	70	45	33	–	bc	bc	bc.b
City (Bunhill Row)	*	*	8·8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	46	58	8·2	68	48	43	–	bc	bc	bcm.
Camden Sq. (Brit. Rainfall)	45	70	7·9	71	48	45	–	c.bc	bc	*
Hampstead (Reservoir)	*	70	8·5	66	47	32	–	bc	bc	bc
Richmond Park	*	*	7·6							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	43	61	7·5							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1559 Joules	26·7 Milliwatts.	84 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,								
Birmingham ,,	4	62	51	48	*	c	c	7·1
Oxford to 8 p.m.	*	66	52	47	c	c	c.bc	*
Teignmouth to 9 ,,	2	68	54	50	cp	bc	bc	11·4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	68	55	50	o.bc	o.c.o	c	*

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

13th & 14th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 46 3 47	11 58 11 59	8 11 8 10
Greenwich	3 59 4 0	12 5 12 6	8 12 8 11
Wick	3 27 3 29	12 17 12 18	9 8 9 6
Valencia	4 37 4 38	12 46 12 47	8 56 8 55

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 70° in nearly all parts of the United Kingdom, but most localities recorded several hours of bright sunshine, and as a rule the weather was dry. Local thunderstorms occurred, however, on the East coast of England.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 195. Wednesday, 14th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1006·2	58	NNE	1	bc	1004·9	-1	52	+1	SE	1	–	c	1	–	59	47	bc	bc	bc. c	
	Deerness ...	1004·7	63	SE	2	0	1002·4	*	51	-3	SE	2	–	r	1	16	56	50	b. bc	bc. c. o	or	10·5
	Stornoway ...	1002·8	55	S	4	cg	1001·6	0	52	-1	SSW	1	–	o	1	–	58	48	cg	cg	bc. o	3·5
	Castlebay (Barra Isd.)	1003·5	53	SW	3	ofp	1002·1	0	53	-1	S	2	–	o	2	2	56	51	c. o	o. c. ofp	ofp. o	3·2
	Glasgow ...	1005·1	53	WSW	3	og	1003·7	-2	51	0	WSW	2	–	od	*	1	59	48	c. o	ofp	c. B. C. oa	2·2
	Eskdalemuir ...	1006·2	51	WSW	3	or	1004·6	0	50	0	SW	4	–	o	*	2	58	41	bc. or	o. ofp	or. c. bc	4·6
	Malin Head ...	1006·4	55	W	4	bc	1003·1	-2	52	+1	W	3	W	cfp	3	9	58	49	bcp	bc	cqpp	5·2
	Blacksod Point	1008·0	55	WSW	3	bcp	1005·4	0	51	0	WNW	3	W	cgp	2	4	59	48	bcp	bcp	cp. bcp	
	Valencia ...	1010·5	58	NW	3	c	1009·1	0	56	+1	W	3	W	o	4	0·2	60	44	ofp	c	c. ofp. c	4·5
	Roche's Point	1011·6	58	WSW	2	0	1010·1	*	51	-½	–	0	W	bc	1	0·3	62	47	c. o	ofp	o. bc	*
	Birr Castle ...	1008·5	55	W	2	c	1007·3	*	52	-3	SW	2	SW	c	*	1	62	47	cfp	cfp	c	4·4
	Donaghadee ...	1006·1	55	NW	4	cm	1004·4	-1	51	-1	SW	4	SW	cgm	3	2	57	50	cmfp	cmfg	bc. ogm	*
	Liverpool (Bidston)	1007·5	60	WNW	2	b	1007·2	0	55	+1	WSW	2	–	b	2	–	61	51	0	o. bc	bc. b	3·4
	Holyhead ...	1009·2	57	SW	5	cg	1007·4	0	55	0	WSW	4	–	b	3	1	61	52	o. c.	c. bc. c	cfc. b	3·1
	Pembroke (St. Ann's)	1009·9	55	WSW	3	bc	1009·5	0	55	+2	SW	1	NW	bc	1	–	55	53	bc. c	bc	bc	7·3
	Scilly (St. Mary's)	1011·7	61	WNW	3	cw	1009·0	-1	56	-1	SE	1	–	fc	2	–	63	54	cw	cw	cw. ow f	2·2
	Falmouth ...	1010·7	59	WNW	3	bc	1009·6	-1	55	-3	SW	1	–	od	2	–	63	54	bo. c	c. bc	bc. o	5·3
	Jersey (St. Aubin)	1009·9	59	WNW	3	c	1012·8	*	59	+1	SW	3	–	o	2	–	60	55	og	ogC	bc. bo	0·0
	Portland Bill ...	1008·8	58	W	4	c	1010·4	0	57	+1	WSW	3	W	c	3	–	62	55	bc. c	C	b. bc. c	*
	Dungeness ...	1007·2	60	NNE	1	o	1010·4	+3	58	0	W	3	W	b	2	–	63	49	b. bc. o	o. c. o	o. bc. b	*
	Dover	1006·7	59	NE	1	o	1011·8	+2	61	+2	W	2	–	b	2	–	64	51	bc. c	c. o	oc. bc. b	5·9
	Wick	1004·2	53	SE	3	o	1002·6	0	52	0	–	0	–	o	1	1	56	49	bc	bc. om	om	*
	Nairn	1003·6	56	W	1	cfm	1002·3	*	54	+1	W	1	–	bc	1	10	62	46	bc. cg	cfm	urc	5·6
	Aberdeen ...	1004·8	53	S	3	r	1002·5	0	53	0	–	0	SW	b	2	4	60	48	bc	c. or	or. cb	4·5
	Leith	1004·4	55	SW	2	o	1003·7	-1	53	-1	SW	2	SW	ofp	*	4	62	48	bc. c	c. or	c. bc. b	*
	Tynemouth ...	1005·9	58	WNW	2	c	1006·0	0	54	+2	WSW	2	W	cm	3	–	61	49	cg	cg	cm	
	Spurn Head ...	1007·1	58	SE	4	o	1007·4	+4	53	-2	W	4	–	bc	3	–	63	50	om	cm	bc	5·5
	Yarmouth ...																					
	Clacton-on-Sea	1007·7	61	SSW	1	o	1009·2	+4	56	-1	WNW	2	NW	c	1	–	63	52	bc. c. o	o	oge	6·5
	Nottingham ...	1006·4	63	SSW	1	c	1008·1	*	53	0	WSW	1	W	bm	*	–	66	46	c. o	o	C O	2·3
	Bath	1008·2	62	W	2	o	1009·6	*	57	0	SW	1	SW	o	*	–	67	49	b. bc. b	bc. c. o	ac. bc. b	8·3
	Sth Farnborough	1006·9	64	SW	2	o	1010·1	+2	57	+2	WSW	3	W	ow	*	–	67	44	bc. o	o	abc. b. o	3·6
	London (Kew Obsy.)	1007·2	65	SW	2	o	1010·2	+3	57	+2	SW	2	W	c	*	–	69	50	cm bc o	o	o. ow bc. c	4·5
NORTHERN EUROPE.	Spitsbergen ...	1010·9	39	NW	2	b	1011·1	0	37	-11	N	2	*	o	*	*	46	36				
	Vardö	1002·0	45	ENE	2	f	999·5	-2	46	+1	N	2	–	f	2	*	46	41				
	Bodö	9989	48	SW	4	c	999·0	0	52	0	–	0	–	o	0	–	52	46				
	Christiansund	1004·4	52	N	2	o	1004·2	0	52	0	N	2	–	o	2	Trace	52	50				
	Skudesnaes ..	1004·2	54	NW	4	o	1002·9	0	54	0	WNW	3	–	o	2	–	55	52				
	Færder (X'iania Fjord)	1000·0	63	WSW	1	b	1001·2	0	57	-2	NE	1	–	o	2	–	63	57				
	The Scaw (Skagen)	1002·3	59	WSW	5	bc	1003·0	0	55	-4	WSW	3	W	c	3	–	63	52				
	Blaavands Huk	1008·2	57	WNW	3	b	1006·1	0	57	+2	–	0	–	o	0	Trace	59	52				
	Haparanda ...	999·5	61	S	2	bc	999·5	0	61	+2	NW	4	–	bc	*	Trace	64	50				
	Hernösand ...	997·7	59	SSW	2	b	1001·2	0	59	+2	NW	2	–	b	*	–	63	52				
	Stockholm ...	998·3	64	W	2	bc	1002·0	–	57	+2	W	2	–	o	*	–	66	54				
	Wisby	1001·1	63	W	4	bc	1004·4	0	59	-2	WSW	4	–	b	*	–	69	55				
	Karlstad	999·0	64	NW	2	b	1003·1	+4	54	-1	WNW	2	–	o	*	3	66	50				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·5	61	NNW	1	o	1007·0	+2	61	+2	W	1	–	bc	1	–	64	57				
	C. Gris Nez ...	1001·3	59	NE	1	o	1010·3	+3	57	+5	W	4	*	bc	4	–	68	55				
	La Hève	1006·9	59	N	3	o	1013·5	*	59	0	WNW	5	*	c	5	–	64	54				
	Ushant							*					*									
	Brest (St. Mathieu)	1013·5	59	N	2	c	1012·4	-2	59	+2	WSW	5	*	o	4	–	68	55				
	Rochefort (Ile d'Aix)	?	60	NW	6	o	1017·3	+3	61	-1	W	1	*	bc	*	–	82	59				
	Biarritz	1014·1	65	WNW	4	c	1019·5	+3	64	-3	SW	3	*	bc	4	2	70	61				
	Paris	1003·8	55	N	4	r	1016·3	+4	59	-2	WSW	2	W	b	*	26	68	50				
	Belfort	1003·9	61	–	0	r	1015·7	*	54	-5	W	6	*	o	*	12	70	48				
	Lyons	1010·1	64	W	3	o	1018·6	*	56	-3	–	o	*	c	*	7	70	56				
	Nice	1009·0	72	–	0	c	1006·9	0	71	-2	WSW	4	*	b	5	Trace	82	64				
	Perpignan ...	1008·8	75	NW	3	bc	1017·6	+5	68	-5	NW	3	NW	b	*	8	84	59				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018·7	64	WNW	3	b	1020·4	0	59	+2	SE	3	–	b		–	66	52				
	Madrid (8 a.m.)	1012·4	73	W	3	c	1018·1	+2	68	+5	NNE	1	–	b	*	–	75	55				
	Lisbon (9 a.m.)																					
	Gibraltar	1015·2	73	NW	5	b	1014·9	*	66	0	W	1	*	b	1	–	83	65				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1027·0	*	WSW	5	b	1026·1	0	67	+3	–	0	*	bc	1	–	81	64				
	Madeira (Funchal)	1019·9	72	NNE	3	c	1020·6	0	68	+2	NNE	3	N	bc	3	—	72	64				

South Farnborough:-
Pilot Balloon Ascent at about 7 a.m.
Wind at 500 metres WSW 18 m.p.h.
Wind at 2,000 metres W 28 m.p.h.

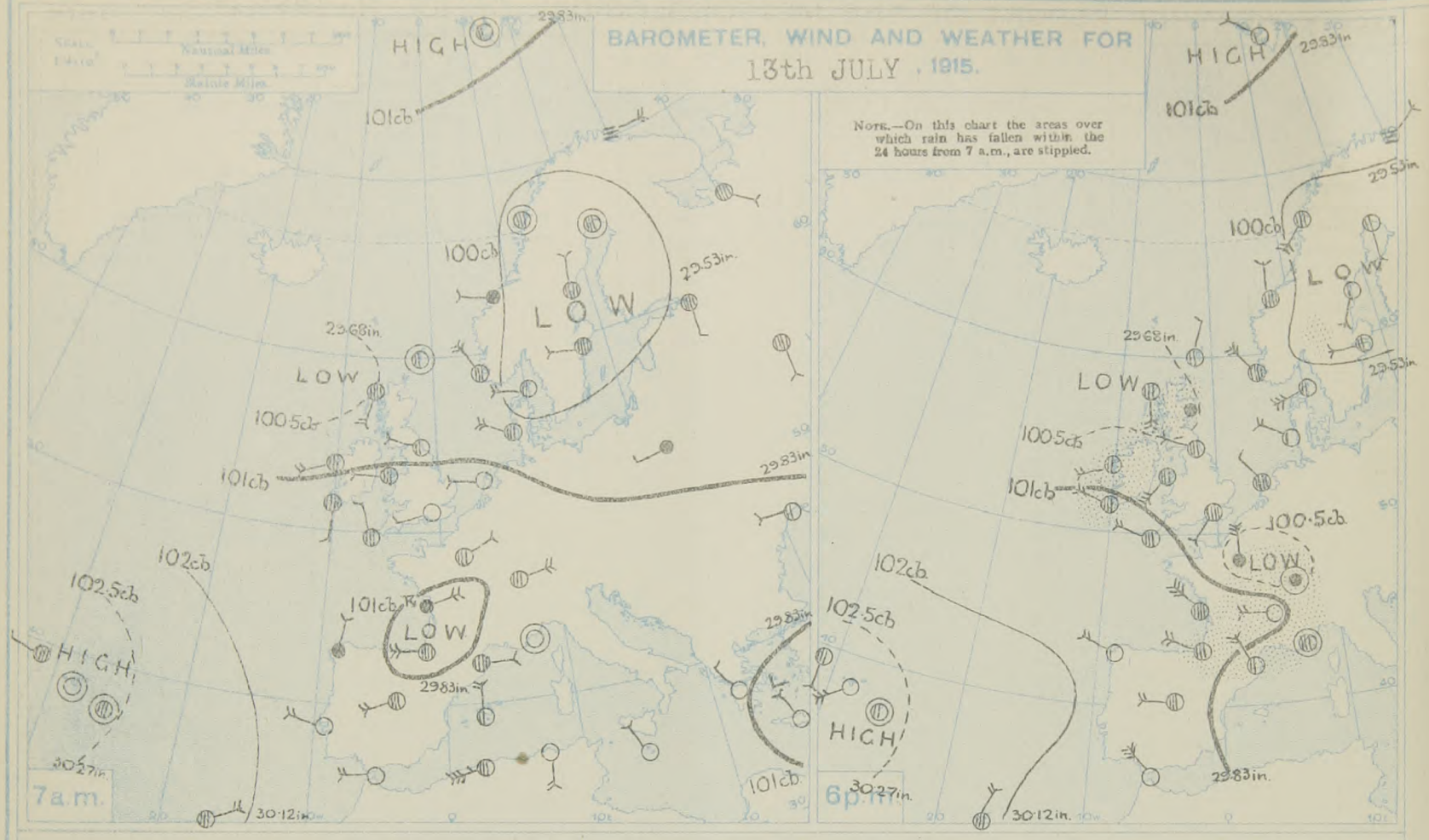
RAINFALL.

Equivalents of Millimetres in Inches.

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

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

BAROMETER, WIND AND WEATHER FOR 13th JULY, 1915.



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

FORECAST FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

0 (a, b) Southerly or South-Easterly winds, light or moderate; changeable, some showers; cool.

1, 2 (a, b) Wind light, mainly South-Westerly; sky variable, some showers locally; rather cool.

3, 4 (a, b), 5 Westerly to South-Westerly or Southerly winds, light or moderate; fair, then some rain or showers; moderate temperature.

6 (a, b), 7 (a, b) Same as Nos 1 and 2.

8 (a, b) Wind between South and West, light to fresh, changeable, some rain, fog locally on coast; moderate temperature.

9 (a, b) Same as Nos 1 and 2.

10 (a, b) Variable to South-Westerly or Westerly winds, light or moderate; some showers, fog locally; rather cool.

11 Wind between South-West and West, moderate to fresh or strong; some showers; fog at times.

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

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

FURTHER OUTLOOK.

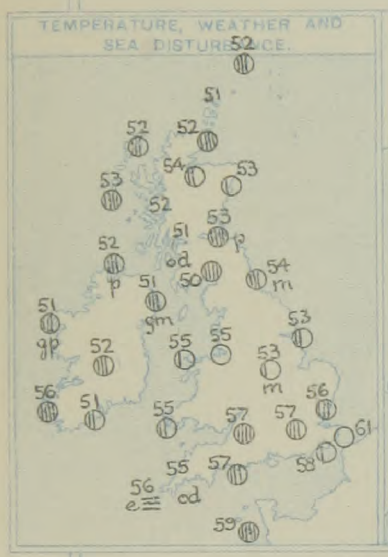
R. G. K. LEMPFERT, Superintendant, Forecast Division. W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 14th JULY, 1915.

GENERAL INFERENCE.

A small depression off the Scilly Isles may be expected to move eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

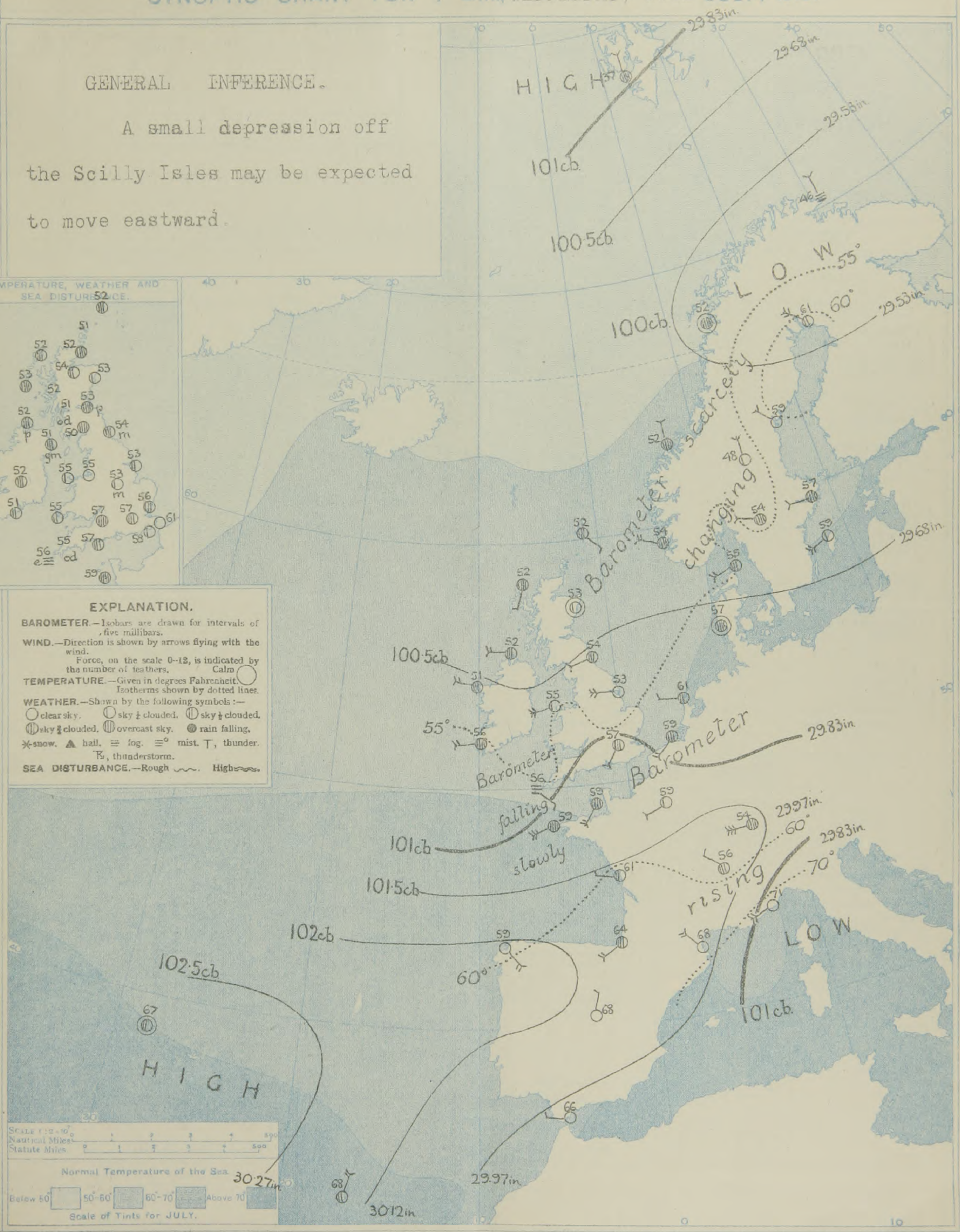
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.



DAILY WEATHER REPORT. Wednesday, 14th July, 1915.

REPORTS FOR YESTERDAY.

13th July, 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd.	1002·0	61	S	1	c	1000·2	−2	59	+4	S	1	–	o	*	–	63	55
Corunna.	1010·9	61	NE	6	tbr	1014·7	+4	57	−6	NNE	2	–	r	4	8	68	57
Azores (Horta).						1024·9	0	64	0	–	o	*	b	o	–	73	63

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	60	44	c	c.bc	1·8
	Banff	1	61	38	bc	cptl	5·5
	Carnoustie	14	60	46	bc.oq	tbr	5·4
	St. Andrews	6	61	46	c	outhr	4·3
Eng. N.E.	Harrogate	–	60	43	c.bc	c.bc	2·5
	Skegness	–	64	45	bc.c	c.ou	6·8
Eng. N.W.	Morecambe	–	62	53	bc.b	bc.b	5·4
	Blackpool	–	62	51	b.bc	bc.b	6·8
	Southport	–	61	53	o.c	bc.o.b	4·3
Midlands.	Buxton	–	59	47	bc	bc	1·9
	Leamington Spa	–	67	40	c.bc	bc.c	5·8
	Malvern	–	65	50	c	c	5·8
	Ross-on-Wye	–	68	43	bcw	bc.cu	6·2
Wales.	Rhyl	–	63	53	o.c	bc.b	3·3
	Colwyn Bay	–	61	51	bc	b	3·0
	Llandudno	–	64	54	c	c	1·1
	Aberystwyth	–	60	53	o.c.b	bc.c	8·0
	Tenby	–	63	47	bc	b	7·8
England. E.	Cromer	2	65	49	b.bc.c	bc.c.o	7·8
	Lowestoft	–	65	48	bc.c	c.o	8·3
	Felixstowe	–	64	49	bc	c	6·2
	Walton-on-Naze	–	65	48	bc	c.o.c	6·2
	Southend-on-Sea	–	67	50	b.bc.c	c.o.	4·8

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, S.E.	Tunbridge Wells	–	64	45	o.bc	o	3·3
	Margate	–	65	51	bc.o	o	5·9
	Ramsgate	7	63	48	bc	o	4·0
	Hastings	–	64	49	b.bc.o	o	4·5
	Bexhill-on-Sea	–	63	53	c	c	1·1
	Eastbourne	–	63	49	c	o	0·0
	Seaford	–	65	46	bc	c	3·5
	Brighton	–	63	50	c.bc.c	o	2·2
	Worthing	–	63	46	c.bc	c	2·8
	Littlehampton	–	63	?47	b	o	3·0
	Bognor	–	62	47	o	o	3·9
	Southsea	–	64	49	c	o	0·0
	Bournemouth	–	65	45	c.o	c.o	2·8
England, S.W.	Weymouth	–	68	50	c.bc	bc.cg	3·9
	Torquay	–	61	50	o	o.c	2·1
	Paignton						
	Falmouth	–	63	51	bc.c	c.bc	5·3
	Penzance	–	66	52	bc	bc.c	4·0
	Newquay	–	61	53	bc	bc	7·5
	Ilfracombe	–	60	52	b	b	12·0
	Weston-super-Mare	–	64	50	b.bc.b	b.bc.b	8·8

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
	24 Hours ended 9 a.m. To-Day.									
Greenwich (Royal Obsy.)	63	65	3·4	69	50	40	–	o	o	ab.c
City (Bunhill Row)	*	*	2·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	59	64	3·7	66	50	?	–	ou	ou	bcw
Camden Sq. (Brit. Rainfall)	63	63	1·1	65	49	46	–	o	o	*
Hampstead (Reservoir)	*	69	4·4	63	46	32	–	bc.o	o	o.bc
Richmond Park	*	*								
Kew. (See front page.)										

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

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1092 Joules	18·7 Milliwatts.	54 Milliwatts.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. Today.	Sunshine for Yesterday.
S. Kensington (Roof of M.O.)	52	64	4·3

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	Trace	63	52	49	c	c/o	cb	*
Darwen to 9 p.m.								
Manchester ,,	–	61	50	*	c.o	o.c.bc	bc.bg	2·2
Birmingham ,,	–	66	48	39	*	c	c	4·8
Oxford to 8 p.m.	*	68	49	41	b.ob.c	c	c.bc	*
Teignmouth to 9 ,,	–	63	50	47	b.bc.c	c	c.bc	4·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	60	50	42	c.b	c.og	o	*

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

14th & 15th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·47 / 3·48	11·59 / 11·59	8·10 / 8·9
Greenwich	4·0 / 4·2	12·6 / 12·6	8·11 / 8·10
Wick	3·29 / 3·31	12·18 / 12·18	9·6 / 9·4
Valencia	4·38 / 4·39	12·47 / 12·47	8·55 / 8·54

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° over the greater part of the Kingdom. Rain fell in Ireland and Scotland, and thunderstorms occurred locally in the latter country. Bright sunshine was more abundant at Deerness and Ilfracombe than elsewhere.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 196. Thursday, 15th July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1004·7	50	–	0	o	1003·3	-1	50	-2	NE	2	–	o	2	12	57	48	b c p	o m p	o	8·1
	Deerness ...	1002·4	53	E	3	b c	1002·7		52	+1	NE	2	NE	c	1	Trace	55	48	o r c	c b c	b c. c	
	Stornoway ...	1002·0	56	S E	2	c	1002·9	+2	52	0	NE	3	–	c	3	3	58	47	c p	c	b c. c	1·4
	Castlebay (Barra Isd.)	1001·4	58	W N W	3	b c	1002·5	+1	54	+1	N	2	N	o	2	1	58	50	o b c	b c	b c. o	8·5
	Glasgow ...	1002·1	57	W	2	c u	1001·7	0	52	+1	W	2	–	o d	*	1	60	48	o p. c. o p	c r. o	b c. b p. c	2·4
	Eskdalemuir ...	1003·1	52	S W	4	o r	1001·4	0	53	+3	W	3	W	c	*	5	55	40	o. c	o p	o r. o	0·8
	Malin Head ...	1002·6	53	W	4	b c q p	1002·0	0	53	+1	N W	3	N W	b c	3	9	61	50	c. p	b c q p	b c p	7·0
	Blacksod Point	1005·6	57	W	4	b c p	1005·5	+1	53	+2	W N W	4	N W	b c	4	2	59	49	c p	b c p	b c p c z	
	Valencia ...	1008·0	56	W	4	o	1008·7	+1	56	0	W	2	N W	c	3	3	61	52	c p	c p	c p	8·1
	Roche's Point	1007·6	58	N W	2	c	1008·4	*	54	+3	W N W	3	N W	b	2	1	62	49	b c. c p	c q p. c	c. b	
	Birr Castle ...	1005·4	57	W	2	c	1006·7	*	55	+3	W	2	–	c	*	3	63	45	c p	c p	c	6·9
	Donaghadee ...	1003·0	53	S E	3	c m	1002·1	0	52	+1	W	2	W	c g m	1	9	60	47	o m p	e m p	c m p	
	Liverpool (Bidston)	1004·4	59	W	2	o	1003·2	0	54	-1	W	4	–	b c	3	–	64	53	b. o	o. c	b c	4·2
	Holyhead ...	1005·2	56	S W	4	o g	1004·0	0	54	-1	W	4	–	b	3	1	60	52	b c. c b c	b c. q p. o	c o p. b c	6·7
	Pembroke (St. Ann's)	1007·7	56	W S W	3	b c	1006·9	+1	55	0	N W	2	N W	b c	3	–	58	54	b c	b c	b c	9·2
	Scilly (St. Mary's)	1008·5	59	N W	4	c	1008·7	0	56	0	W N W	4	W	b c	4	2	60	54	o w r	o. b c	c v b c w	2·3
	Falmouth ...	1007·3	57	N N W	3	c	1007·8	+2	55	0	W S W	4	W	b c	3	4	60	51	d. o r	o. c	b c	1·0
	Jersey (St. Aubin)	1007·2	61	S W	3	o p	1009·1	*	58	-1	W	4	–	b	3	1 6	61	56	o p. o r	o r. o p	o g. b	0·2
	Portland Bill ...	1005·4	57	S S W	3	o r	1006·0	+1	56	-1	W S W	5	W	c	4	?	59	53	o d	o r. c	c p. b c	
	Dungeness ...	1007·2	56	S	3	r	1004·1	+2	58	0	S W	4	S W	b	4	12	64	53	b c. o	b c	o r. b c	
	Dover	1007·9	55	S S W	3	o r	1003·8	+2	58	-3	W N W	3	–	b	3	10	64	53	b. b c	b c. c. o r	o r. b a. b	6·4
	Wick	1002·2	53	E	1	b c	1002·4	0	51	-1	NE	2	–	C	2	–	55	50	o m b e m	b e m	b e m. c	
	Nairn	1001·1	56	–	0	o v	1002·0	*	48	-6	–	0	–	r u	1	41	63	47	b c g p	d g c	c u p r	4·2
	Aberdeen ...	1001·6	55	S	1	o	1000·8	0	54	+1	N W	3	W	c	2	Trace	61	50	b c	c o p	c. o p. c c	3·4
	Leith	1001·1	58	W N W	2	o	1001·1	-1	53	0	W	2	W	c	*	1	61	49	o b c	c. o p	o. c	
	Tynemouth ...	1003·3	60	W N W	2	c m g	1002·1	-1	53	-1	N W	2	W	c m	2	1	62	50	e m	c m	c m	
	Spurn Head ...	1004·7	60	S S E	2	b c	1002·2	-1	56	+3	N N W	5	–	c	4	–	68	52	b c	b c	c	8·4
	Yarmouth ...																					
	Clacton-on-Sea	1007·5	59	S S W	4	o	1002·9	+2	53	-3	W N W	3	N W	o	2	13	67	53	c. b c. c	c o g p	o g r. o g	6·5
	Nottingham ...	1004·6	63	S W	2	c	1002·9	*	55	+2	W	3	W	c	*	–	69	49	b c	b c. c	c. o	9·1
	Bath	1005·5	58	S E	1	o	1005·5	*	57	0	W	1	W	b c	*	3	62	47	o r	o r g	o p. c b c	0·9
	Sth Farnborough	1005·5	55	S E	3	r	1004·7	+1	55	-2	W N W	2	W	b	*	8	65	47	b c. o p	o r	o r. b c. c	4·1
	London (Kew Obsy.)	1006·3	56	S	2	o r	1004·7	+2	55	-2	W	2	W	b	*	15	68	52	c. o p. o	o. o r. o d. o r	o r. o w r. b c	3·9
NORTHERN EUROPE.	Spitsbergen ...	1010·4	39	N N W	2	c	1009·1	0	39	+2	N N W	1	*	c	*	*	41	36				
	Vardö	1001·3	48	S E	2	b	1003·5	+3	?	+?	S	1	–	b	2	*	50	46				
	Bodö	1002·3	48	S W	2	b	1003·0	0	52	0	S W	1	–	b	1	1	52	46				
	Christiansund	1002·9	52	N N E	2	o	1002·9	0	50	-2	N N E	1	–	p	2	8	54	48				
	Skudesnaes ..	1003·0	55	–	0	c	1001·9	+1	55	+1	E S E	2	–	c	2	–	55	54				
	Færder (X'ianiaFjord)	1001·1	61	W S W	6	b	1002·0	0	59	+2	S W	6	–	b	3	–	63	55				
	The Scaw (Skagen)																					
	Blaavands Huk	1007·0	59	W S W	2	o	1002·9	-3	57	0	E S E	2	–	O	1	Trace	63	48				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1008·9	59	S S W	3	c	9962	-5	59	-2	S S W	4	S W	b c	3	16	64	52				
	C. Gris Nez ...	1006·6	56	S	4	r	1010·3	+2	56	-1	W	5	*	b c	4	8	63	55				
	La Hève	1007·1	61	S	3	o r	1006·0	*	58	-1	W N W	5	*	o	5	3	64	52				
	Ushant	1009·6	59	N N W	4	o	1009·5	*	57		N N W	4	*	e	3	3	61	52				
	Brest (St. Mathieu)	1009·5	59	N W	4	o	1010·7	0	58	-1	W S W	3	*	o	3	4	64	55				
	Rochefort (Ile d'Aix)	1018·1	66	S W	5	c	1011·4	+2	61	0	W	3	*	o	*	6	68	61				
	Biarritz												*									
	Paris	1011·1	67	S S W	3	o	1007·8	+2	57	-2	W	2	–	r	*	9	72	57				
	Belfort	1016·2	61	W	6	b	1012·7	*	57	+3	W S W	3	*	o	*	–	67	48				
	Lyons	1016·3	66	–	0	b	1017·7	*	57	+1	–	0	*	b	*	–	71	50				
	Nice	1008·6	71	E	1	b	1010·9	+1	71	0	–	0	*	b	2	–	86	64				
	Perpignan ...	1015·0	77	S W	1	b c	1013·7	0	73	+5	S W	1	W	c	*	–	82	55				
	Sanguinaire ...	*	82	N W	3	b c	*	*	75		E	2	*	b c	4	–	88	65				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019·3	66	N W	4	b	1016·7	0	66	+7	S W	3	–	o	2	–	72	57				
	Madrid (8 a.m.)	1013·0	81	W	2	b	1016·0	+2	70	+2	–	0	–	b	*	–	84	63				
	Lisbon (9 a.m.)																					
	Gibraltar	1015·9	74	E	3	b	1016·6	*	66	0	E	2	*	b	1	–	85	65				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1025·9	*	E S E	3	b							*									
	Madeira (Funchal)	1020·0	73	N E	3	c	1021·6	+1	64	-4	N E	3	N E	b c	3	–	75	64				

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

Wind at 1500 feet WNW 18 m.p.h.

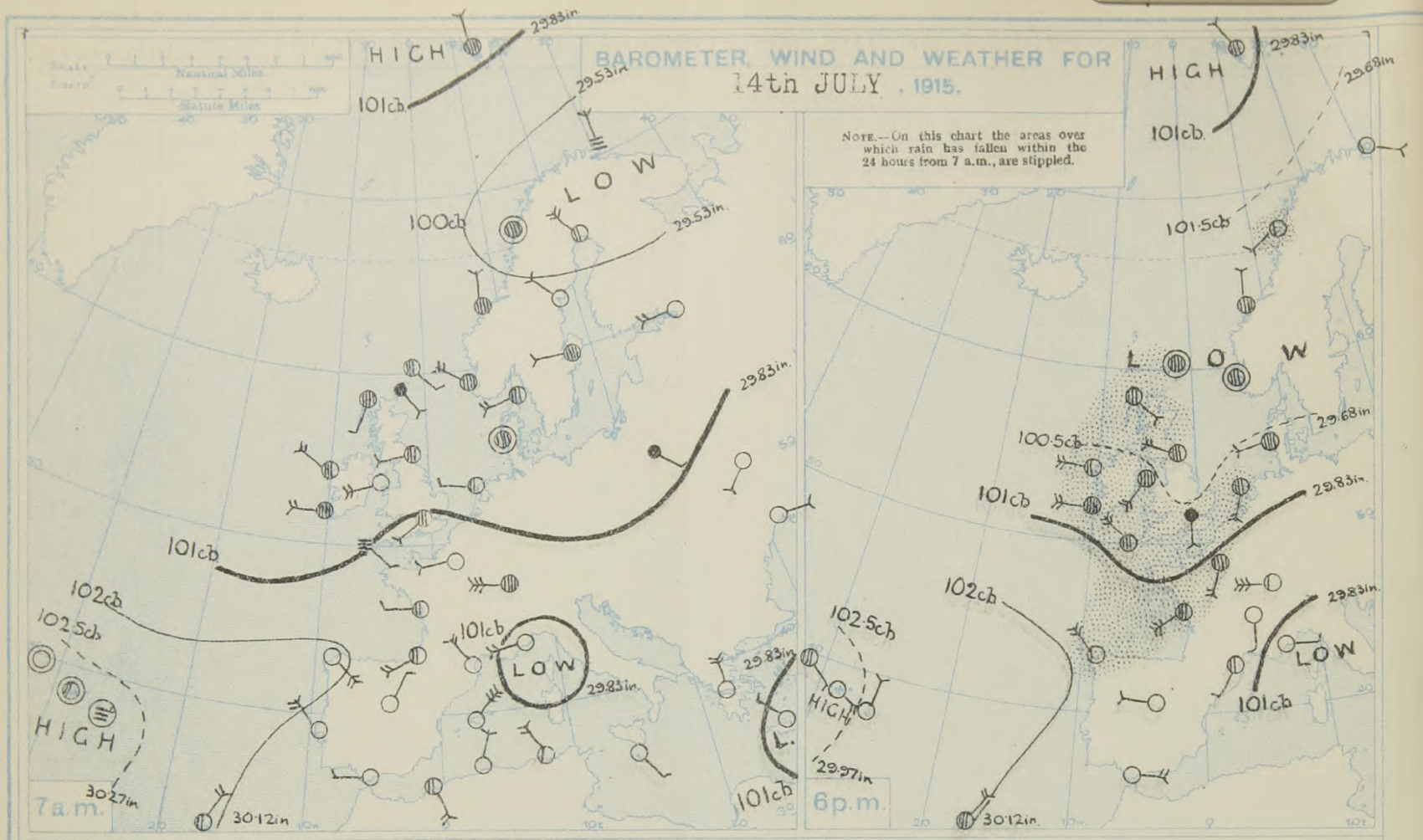
RAINFALL.

Equivalents of Millimetres in Inches.

mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·30
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 14th JULY, 1915.



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} North-Easterly to North-Westerly winds, light; much cloud, occasional rain; cool.

1 2 {a b} Northerly and North-Westerly winds, light or moderate; much cloud, some showers; cool.

3 4 {a b} 5 South-Westerly and Westerly winds, moderate or light, fresh at times; variable sky; some showers; cool.

6 {a b} Northerly and North-Westerly winds, light; some showers; cool.

7 {a b} 8 {a b} 9 {a b} 10 {a b} Wind mainly Westerly, moderate or light; fair generally, some local showers; cool

11 Westerly winds, moderate; sea moderate or slight, mostly fair.

Millibars
1050
1040
1030
1020
1010
1000
990
980
970

FURTHER OUTLOOK.

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

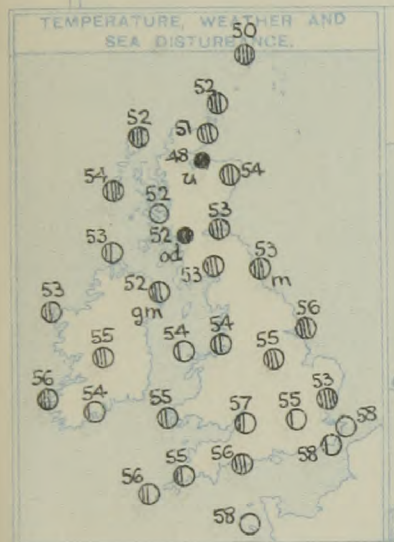
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 15th JULY, 1915.

GENERAL INFERENCE.

The depression over the North Sea will probably continue to move away 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. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

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

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

29·68in.
H I G H
100·5cb
Barometer rising
100cb.
Barometer falling
LOW
29·53in.
29·68in.
101cb
Barometer
29·83in.
29·97in.
rising
HIGH
101·5cb
101·5cb
102cb
H I G H
29·97in.
30·12in.

DAILY WEATHER REPORT. Thursday, 15th July, 1915.

REPORTS FOR YESTERDAY.

14th July, 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1000·4	63	W	1	bc	1003·4	+3	61	+2	W	3	SW	b	*	5	64	55
Lisbon	1017·6	70	NNW	4	b	1018·3	+1	63	-1	NNW	3	–	b	2	–	73	59
Malta	*	*	*	*	*	1014·1	+2	82	+3	SSE	1	–	b	0	–	86	73

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	3	58	48	cr c	c bc	4·0
	Banff	1	60	47	bcr	c.bcr	5·2
	Carnoustie	10	59	43	o.cp	tstr	4·8
	St. Andrews	14	63	42	c	cutlr	4·6
Eng. N.E.	Harrogate	–	61	45	c.bc.b	bc.c.o	3·9
	Skegness	–	67	51	c.o	o.c.o	7·6
Eng. N.W.	Morecambe	–	62	54	bc	bc	8·3
	Blackpool	–	64	51	bc.b	bc	11·8
	Southport	–	63	54	bc.b	b.bc.o	11·5
Midlands.	Buxton	–	61	44	bc	bc	7·7
	Leamington Spa	2	69	45	bc.c	bcr	8·1
	Malvern	–	65	50	bc	c	5·5
	Ross-on-Wye	–	64	46	bcr	bc.c.o	5·2
Wales.	Rhyl	3	63	49	op.c	bc	5·0
	Colwyn Bay	1	63	50	bc	bc	6·8
	Llandudno	–	64	51	c.b	bc	7·0
	Aberystwyth	–	62	55	c.bc	b.bc	12·7
	Tenby		64	50	b.bc	b	7·5
England. E.	Cromer	–	68	54	bc.c.o.c	bc.c.o	4·6
	Lowestoft	–	68	55	bc.c	c	6·1
	Felixstowe	–	65	55	bc	or	5·7
	Walton-on-Naze	–	62	52	bc	c.og	6·1
	Southend-on-Sea	0·3	68	50	b.bc.c	c.or	4·3

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, S.E.	Tunbridge Wells	2	64	46	b.o	p.or	3·1
	Margate	–	63	54	bc.b.bc	cp	4·8
	Ramsgate	–	67	49	bc.o	or	5·9
	Hastings	3	64	48	b.bc	or	6·1
	Bexhill-on-Sea	1	62	49	c	c.or.o	0·0
	Eastbourne	3	62	51	b.o.b	or	5·8
	Seaford	0·4	62	50	bc	r	4·5
	Brighton	3	63	50	o.c.o	or.o	4·6
	Worthing	2	64	46	c	r	2·6
	Littlehampton	2	64	55	bc.o	o	2·
	Bognor	2	62	47	o	or.o	2·1
	Southsea	–	63	56	c	o	0·0
	Bournemouth	3	62	48	o	or.o	0·0
England, S.W.	Weymouth	7	61	52	od.r	d.or.	0·0
	Torquay	3	63	53	d.op	p.op.	0·0
	Paignton	4	58	52	o	o	0·0
	Falmouth	14	60	54	d.r.o	o.c	0·0
	Penzance	7	61	55	or	c.bc	0·3
	Newquay	5	58	54	ofm	o.c	0·5
	Ilfracombe	0·4	60	55	d.o	o.c.o	0·5
	Weston-super-Mare	10	60	50	bcr.c	cr.c	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	54	72		69	51	48	6	c	o.or	or.c bc
City (Bunhill Row)	*	*	4·4	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	67	70	4·8	66	51	49	15	one	me	our.bc
Camden Sq. (Brit. Rainfall)	61	69	3·1	69	50	49	19	o.c	o.or	*
Hampstead (Reservoir)	*	70	4·7	64	47	37	24	bc	bc.or	or.bc
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	61	65	4·7							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1381 Joules	23·4 Milliwatts.	84 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	0·4	63	50	*	b.c.op	o.c.bc	bc.c.o	3·4
Birmingham ,,	–	66	47	39	*	c.bc.b	c	10·0
Oxford to 8 p.m.	*	66	48	41	o.o.c	c.o	or	*
Teignmouth to 9 ,,	6	59	53	51	bc.cp	our	or o	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	2	67	50	45	o.b.bc	bc.o	o or	*

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

15th & 16th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·48 / 3·49	11·59 / 11·59	8·9 / 8·8
Greenwich	4·2 / 4·3	12·6 / 12·6	8·10 / 8·9
Wick	3·31 / 3·33	12·18 / 12·18	9·4 / 9·2
Valencia	4·39 / 4·40	12·47 / 12·47	8·54 / 8·53

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 60° at some northern and western stations and below 65° over an extensive area. Very little bright sunshine was recorded in the southwest and south and rain fell very generally; 15 mm. at Kew, 16 mm. at Jersey, and 41 mm. at 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; x. hoar frost; z. dust-haze, or smoke.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 197. Friday. 16th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1004·0	52	–	0	c	1003·3	0	52	+2	WSW	1	–	c	1	–	54	46	bc	bc	bc	10·3
	Deerness ...	1004·3	53	N	2	bc	1003·7	*	54	+2	SE	1	NW	bv	1	–	48	44	c bc	bc	bc.b	
	Stornoway ...	1005·1	54	NNE	5	bc	1003·6	-1	55	+3	NE	3	–	bc	3	–	61	46	c	c.bc	bc.cbc	8·5
	Castlebay (Barra Isd.)	1005·2	59	NNW	3	bc	1002·5	-1	54	0	ENE	4	W	bc	4	1	60	48	bc.ocp	cp.bc	bc	8·5
	Glasgow ...	1004·1	53	W	1	0	1003·7	-2	51	-1	E	1	–	0	*	10	63	47	op.cpt	cp.oc	c.om	4·3
	Eskdalemuir ...	1003·7	55	W	2	0	1004·3	-1	48	-5	–	0	–	om	*	4	57	38	c.ogp	op	cq.bc o	3·4
	Malin Head ...	1005·5	57	NW	3	bc	1001·3	-4	53	0	E	3	NE	cv	2	–	58	49	bc	bc	cv	12·7
	Blacksod Point	1011·6	57	WNW	3	bc	997·0	-9	50	-3	SSW	5	SE	ovcst	4	3	59	49	bc	bc	bc.omr	*
	Valencia ...	1009·0	58	SW	1	0	995·0	0	59	+3	WSW	3	W	0	4	16	62	55	bc	bcv	ov.o	9·6
	Roche's Point	1009·3	63	NW	2	c	996·7	*	59	+5	SW	3	SW	0	4	15	67	54	bcp	bc.c	c.ov.c	*
	Birr Castle ...	1007·5	60	W	2	c	996·9	*	53	-2	SE	3	–	r	*	6	63	50	cp	cp	c.ot	7·2
	Donaghadee ...	1004·8	57	NNE	2	bc	1002·3	-3	53	+1	SE	3	–	c	1	2	59	49	bcm	bc	bcmog	*
	Liverpool (Bidston)	1005·7	60	WNW	5	b	1004·0	-2	54	0	SSW	1	S	c	1	–	62	51	b	b	bc.c	11·9
	Holyhead ...	1006·0	59	SW	4	c	1003·0	-4	55	+1	S	5	SW	ovg	4	–	62	52	b.bc.co	c.bc.cp	c bc.b.o	8·5
	Pembroke (St. Ann's)	1008·8	57	WSW	4	bc	1002·5	-6	53	-2	SSW	5	–	ogrm	5	6	59	52	c.bc	bc	bc	11·0
	Scilly (St. Mary's)	1011·1	61	WNW	2	bc	1000·5	-9	58	+2	SSW	6	–	ovr	6	6	65	54	bc	bc	bc.ovr	12·1
	Falmouth ...	1010·6	61	W	3	b	1003·1	-8	55	0	SSW	5	–	r	5	6	65	51	bc	b	b ocrq	12·2
	Jersey (St. Aubin)	1011·5	62	W	3	b	1010·0	*	57	-1	S	4	–	0	3	0·3	63	52	bc.b	b	bop	11·0
	Portland Bill ...	1008·1	58	WSW	4	bc	1007·0	-2	57	+1	SSW	4	SW	c	3	1	59	54	bc.p	bc	b.bc.c	*
	Dungeness ...	1006·5	57	WSW	5	cqp	1008·4	+1	59	0	WSW	2	W	c	3	6	64	50	bc.tr	bcp	b.bc	*
	Dover	1007·4	59	?WSW	5	0	1008·8	+2	57	-1	SW	3	W	c	3	2	66	48	bopr.b	bpr.o	b.bc.c	9·0
	Wick	1004·7	52	–	0	c	1004·4	-1	51	0	S	2	–	b	1	–	54	41	bc	bc	bc.c b	*
	Nairn	1004·5	56	ENE	1	bc	1003·8	*	54	+6	–	0	–	c	0	4	59	46	m.o bc	bc	cv.bc	5·7
	Aberdeen ...	1003·8	54	ENE	3	b	1004·4	0	56	+2	NE	1	–	b	1	3	59	43	c.o	op c.b	b w	4·0
	Leith	1003·4	56	NE	2	c	1003·8	-1	53	0	E	2	SE	c	*	0·1	61	47	c	ofc	bcb	*
	Tynemouth ...	1003·2	56	NNE	2	bc	1005·3	0	55	+2	NW	1	NW	bcm	2	1	61	48	bc	bcp	bcm	*
	Spurn Head ...	1004·7	57	–	0	c	1006·2	0	55	-1	WNW	3	–	0	4	1	65	50	m.o	cp	c bp	5·1
	Yarmouth ...																					
	Clacton-on-Sea	1005·6	65	WNW	3	bc	1008·0	+1	55	+2	WNW	2	NW	c	2	–	67	51	ogc bc	bc	bcc	8·1
	Nottingham ...	1005·2	60	W	5	c	1006·0	*	51	-4	SW	1	SW	bc	*	1	64	47	cp	cp	cb	7·7
	Bath	1007·8	61	W	3	bc	1007·3	*	54	-3	S	?	SW	r	*	–	65	50	bc.c.o	c.bc.b	bcb o	11·3
	Sth Farnborough	1006·9	62	W	3	bc	1007·7	0	55	0	SW	2	W	ow	*	1	67	46	bcp	bcp	b.bc.o	10·7
	London (Kew Obsy.)	1006·9	64	WSW	2	bc	1008·3	0	56	+1	SW	2	W	0	*	Trace	67	49	b.bc.cp.bc	bc.cp.bc	bc.b.bco	11·1
NORTHERN EUROPE.	Spitsbergen ...	1008·3	39	NNE	4	c	1008·7	+2	39	0	–	0	*	c	*	*	41	34				
	Vardö	1006·3	46	N	1	b	1008·2	+1	54	–	NNE	1	–	b	0	*	57	45				
	Bodö	1003·4	54	N	2	b	1005·1	+1	52	0	N	1	–	b	1	–	54	48				
	Christiansund	1003·5	54	NE	1	b	1002·0	-1	54	+4	NNE	1	–	b	2	Trace	54	48				
	Skudesnaes ..	1001·7	54	NW	1	c	998·6	0	55	0	NNW	6	–	b	2	–	61	48				
	Færder (X'tania Fjord)	1001·1	59	–	0	0	995·1	+3	55	-4	NE	6	–	0	2	4	59	55				
	The Scaw (Skagen)	1000·2	55	E	2	0	993·3	-2	57	-2	ESE	2	–	0	3	28	61	55				
	Blaavands Huk	996·6	52	NE	2	r	10002	+2	59	+2	WNW	5	–	bc	4	4	59	50				
	Haparanda ...	1004·8	73	S	2	bc	1007·5	+1	63	+2	–	0	–	bc	*	–	66	52				
	Hernösand ...	1003·3	61	SSW	2	bc	1006·9	–	61	+2	S	2	S	b	*	–	70	50				
	Stockholm ...	1004·8	61	S	2	0	1004·2	0	59	0	SE	4	–	0	*	–	68	54				
	Wisby	1006·0	61	SW	2	c	997·2	-4	54	-7	E	6	–	r	*	19	66	52				
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1003·3	59	W	4	c	1005·6	+1	59	0	WSW	3	–	c	2	1	59	55				
	C. Gris Nez ...	1007·4	58	W	5	0	1009·0	+2	58	+2	WSW	3	*	bc	3	3	63	55				
	La Hève	1008·2	61	W	3	b	1010·6	*	59	+1	WSW	3	*	c	3	–	66	54				
	Ushant	1013·0	59	NW	2	c	1007·8	*	57	0	SW	6	*	0	3	–	68	52				
	Brest (St. Mathieu)	1013·1	63	WSW	2	b	1009·1	-5	55	-3	SSW	5	*	0	4	–	68	54				
	Rochefort (Ile d'Aix)	1012·6	61	NE	1	r	1012·6	+3	60	-1	ENE	2	*	0	*	8	66	59				
	Biarritz	1014·7	71	W	2	0	1015·1	+3	66		W	4	*	0	4	–	72	63				
	Paris	1010·4	64	WNW	3	b	1012·2	+1	59	+2	S	1	–	b	*	1	72	48				
	Belfort	1012·8	55	WSW	4	r	1015·4	*	57	0	–	0	*	c	*	8	62	52				
	Lyons	1013·6	61	SSW	1	0	1014·4	*	59	+2	–	0	*	0	*	1	8	57				
	Nice	1008·0	76	W	6	c	1009·5	+2	71	0	E	3	*	bc	2	–	81	64				
	Perpignan ...	1013·5	75	WNW	2	0	1014·6	+2	75	+2	–	0	W	b	*	–	84	61				
	Sanguinaire ...	*	84	W	2	c	*	*	75	0	S	2	*	c	4	2	82	66				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017·6	68	WSW	5	r	1017·3	-1	68	+2	SW	3	–	0	3	2	72	63				
	Madrid (8 a.m.)	1011·5	86	WNW	1	b	1015·9	+2	73	+3	ENE	1	–	b	*	–	88	61				
	Lisbon (9 a.m.)	1018·9	72	NNW	5	1	1017·5	+1	68	+4	NNW	4	–	b	2	–	77	64				
	Gibraltar	1015·2	73	NW	5	b	1014·5	*	69	+3	NNE	2	*	b	1	–	82	65				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1013·5	+3	75	-4	NNW	5	–	b	3	–	84	73				
	Azores (Horta, 8 a.m.)	1026·3	*	WSW	5	b	1025·0	+1	69	+1	–	0	*	bc	1	–	79	66				
	Madeira (Funchal)	1021·1	73	NE	3	b	1021·3	0	66	+2	NE	3	–	b	3	–	75	64				

South Farnborough
Pilot Balloon Ascent at about 7 a.m.
Wind at 500 metres SW 20 m.p.h.

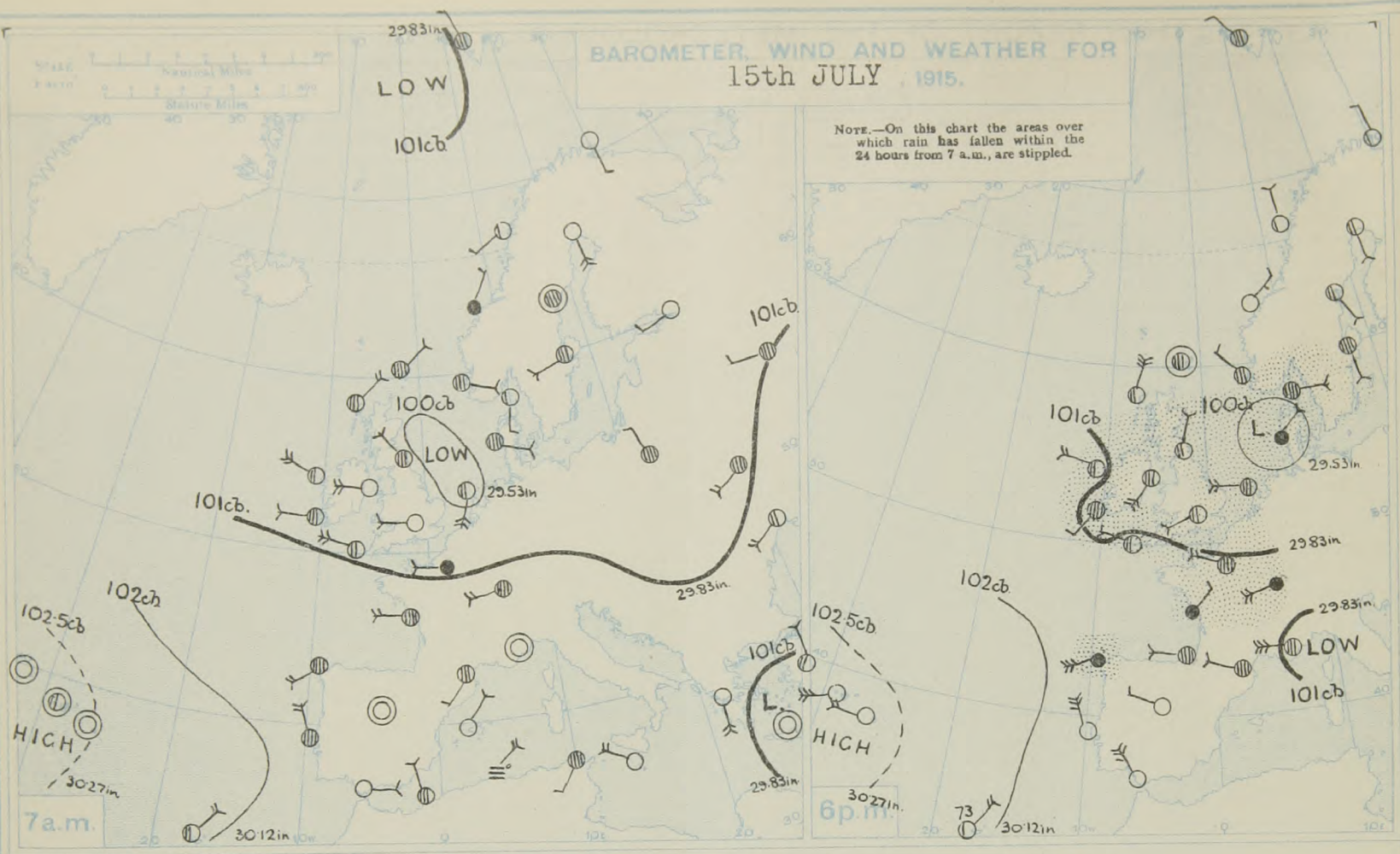
RAINFALL.

Equivalents of Millimetees. 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

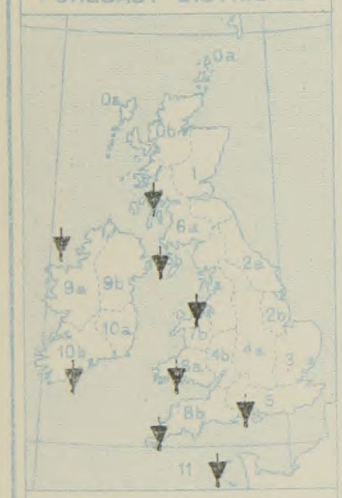
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 15th JULY 1915.



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.

Cones Hoisted at 8 a.m.

Western Channel and Bay

0 (a, b) 1 — Wind imcreasing from East or South-East; becoming rainy; cool.

2 (a, b) 3 — Wind increasing in force from South or South-West;

4 (a, b) 5 — much cloud, rainy; cool.

6 (a, b) — Same as Nos 0 and 1.

7 (a, b) 8 (a, b) 9 (a, b) 10 (a, b) — Southerly and South-Westerly to Westerly winds, fresh or strong, a gale locally; rainy or showery, then fair, fog locally on coast; cool.

11 — Southerly to Westerly winds, fresh or strong to a gale; sea rough; rainy or showery, some fog, then fair.

FURTHER OUTLOOK.

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

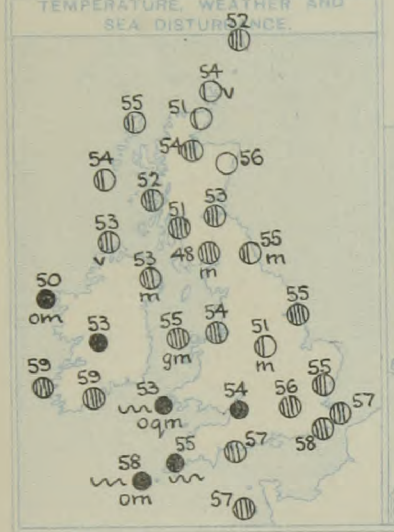
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 16th JULY, 1915.

GENERAL INFERENCE.

The low pressure encroaching on our western districts will extend over the whole Kingdom, and cause rain very generally, with an increase of wind.

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 Tints for JULY.

Normal Temperature of the
Below 50° | 50°-60° | 60°-70° | Above 70°

SCALE 1 : 2 × 10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

HIGH
100·5cb
29·68in
Barometer changing
55°
60°
100cb.
scarcely
29·53in
99·5cb
Bar.
falling
LOW
29·38in
Barometer
50°
55°
falling
LOW
Fall
ceased
99·5cb.
100cb.
100·5cb
101cb
briskly
Barometer
29·83in.
HIGH
29·97in.
101·5cb.
rising
60°
101cb
LOW
101·5cb
102cb
102·5cb
HIGH
30·27in.
30·12in.
29·97in.

DAILY WEATHER REPORT. Friday, 16th July, 1915.

REPORTS FOR YESTERDAY.

15th July 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Skagen	1005·1	57	WSW	3	b	1004·2	0	59	+4	SSW	1	–	b	2	–	63	50
Haparanda	1001·7	59	S	4	0	1003·4	0	61	0	S	4	S	b	*	–	64	56
Härnösand	1001·9	61	S	4	b	1003·0	0	59	0	–	0	–	0	*	–	70	54
Stockholm	1002·6	64	WSW	2	0	1004·0	0	59	+2	WSW	2	–	c	*	–	70	54
Wisby	1005·1	59	SW	2	0	1006·6	+2	61	+2	WNW	2	–	b	*	–	63	54
Karlstad	1002·9	63	SW	2	c	1003·8	0	59	+5	WSW	4	–	bc	*	–	64	52
Petrograd	1006·6	63	NW	1	b	1008·2	+1	61	0	–	0	W	b	*	–	66	54
Lisbon	1017·0	72	NNW	5	b	1009·4	+2	64	+1	NNW	3	–	0	2	–	77	63
Malta	*	*	*	*	*	1013·1	0	79	-3	WNW	3	–	b	2	–	88	73
Horta						1025·6	0	68	+1	–	0	*	bc	1	–	79	66

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	5	63	49	r.c	bc.b	6·5
	Banff	3	57	49	c.bc	bc	6·7
	Carnoustie	6	61	46	r.og	bc.o.c	2·7
	St. Andrews	1	60	46	*	*	6·3
Eng. N.E.	Harrogate	4	62	50	cp	c.bc.c	6·1
	Skegness	0·3	64	51	cor.c	c.ouc	6·8
Eng. N.W.	Morecambe	4	65	51	r.bc	bcb	6·3
	Blackpool	1	62	54	c	bc.b	8·3
	Southport	–	61	54	c.bc.o.c	c.bc.b.	11·0
Midlands.	Buxton	3	62	47	bc	bc	6·2
	Leamington Spa	1	64	49	bc	bcp	11·6
	Malvern	–	63	51	bc	bc	7·4
	Ross-on-Wye	–	69	46	bcv.c	bc.	7·1
Wales.	Rhyl	8	63	53	bc	bcp bc	8·0
	Colwyn Bay	–	61	50	bc	b	7·0
	Llandudno	–	62	52	c.bc	bc	6·0
	Aberystwyth	–	62	54	o.c.b	b.bc	10·5
	Tenby	–	64	52	b	b	?11·2
England. E.	Cromer	11	63	49	c bc.c.o	b r h	5·5
	Lowestoft	27	65	53	bc.c.op.	c.opbl	6·3
	Felixstowe	13	66	53	bc.c	bc.c	6·8
	Walton-on-Naze	12	66	53	c bc.c.o	bc	7·4
	Southend-on-Sea	5	68	53	b.bc	bc	11·1
England, S.E.	Tunbridge Wells	14	64	51	bc.cp.c	opt.b	8·1
	Margate	4	66	55	bc	bc	8·2
	Ramsgate	19	68	53	bc.o	Tbc	7·2
	Hastings	16	64	52	b.bc	tbrbc	7·9
	Bexhill-on-Sea	20	64	53	bc.or	or.o.c	5·0
	Eastbourne	11	64	53	b	bcp	9·2
	Seaford	11	62	54	bc	r.bc	9·2
	Brighton	7	65	52	bc.thr	or.c.bc	8·0
	Worthing	3	66	49	bc.ct	r.bc.c	8·7
	Littlehampton	1	69	57	bc	bc	7·2
	Bognor	1	64	50	bc	bcp	7·5
	Southsea	0·3	64	52	bc	r.b	7·1
	Bournemouth	11	63	49	or	or.b	4·0
England, S.W.	Weymouth	1	66	50	bc	b	7·8
	Torquay	1	68	50	p.o.c.bc	bc.b.	6·8
	Paignton						
	Falmouth	–	65	52	bc	b	10·5
	Penzance	0·3	66	54	bc	b	10·5
	Newquay	1	61	53	bc.bv	bv	9·5
	Ilfracombe	–	61	55	bc.b	b	10·7
	Weston-super-Mare	–	63	54	b	b	12·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	49	78	7·9	69	48	39	–	bc	bc	b c
City (Bunhill Row)	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	51	79	11·6	69	49	46	–	bcu	bc	bc
Camden Sq. (Brit. Rainfall)	43	74	9·9	71	49	47	0·3	bc.cp	bc	*
Hampstead (Reservoir)	*	77	10·8	68	47	35	–	bcp	bc	0
Richmond Park	*	*	8·7							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	43	71	11·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1789 Joules	30·8 Milliwatts.	83 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	3	61	51	50	c.op	op bc	bc	7·3
Manchester ,,	1	63	51	*	op	o.c.bc	bc	6·7
Birmingham ,,	3	62	48	43	*	c	c	8·4
Oxford to 8 p.m.	*	66	47	42	or.o.c	c	c.bc	*
Teignmouth to 9 ,,								
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	12	69	51	48	r.c	c	bc	*

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

16th & 17th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·49 / 3·50	11·59 / 11·59	8·8 / 8·7
Greenwich	4·3 / 4·4	12·6 / 12·6	8·9 / 8·8
Wick	3·33 / 3·34	12·16 / 12·18	9·2 / 9·1
Valencia	4·40 / 4·41	12·47 / 12·47	8·53 / 8·52

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 70° in the United Kingdom, but many districts recorded a considerable amount of sunshine. Rain fell in several localities, the quantity being slight generally but rather large in Ireland.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 198. Saturday, 17th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rain-fall. Milli-metres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yester-day. Hours.
BRITISH ISLANDS.	Lerwick ...	1003·1	55	SW	2	bc	1004·6	+1	52	0	NW	1	–	bc	1	–	57	48	bc	bc	bc	*
	Deerness ...	1002·4	53	SSE	3	bc	1005·4	*	52	-2	NW	3	w	c	1	–	56	47	b.bc	bc	bc.c	14·1
	Stornoway ...	1002·7	55	NE	5	c	1007·7	+4	50	-5	NE	4	–	o	4	–	61	45	bc	b.c	c b o	11·5
	Castlebay (Barra Isd.)	1000·7	57	N	4	o	1008·2	+5	53	-1	N	3	N	op	3	–	59	49	bc.o	o	a bc. op	5·5
	Glasgow ...	999·7	52	E	3	or	1004·2	+6	52	+1	NNE	3	w	bc	*	8	62	48	o.cm.o	rdl.or	orm.b	1·9
	Eskdalemuir ...	998·9	51	NE	5	or	1000·9	+4	51	+3	NNE	6	–	c	*	6	60	47	o	op	or	0·1
	Malin Head ...	996·5	53	NE	6	omqr	1006·0	+7	53	0	N	5	N	cq	6	12	55	51	omqr	omqr	cq	0·0
	Blacksod Point	991·7	52	ESE	8	omr	1009·8	+7	53	+3	N	4	NE	bcq	3	33	53	48	omr	om. or	omr.cm	*
	Valencia ...	991·0	57	WNW	4	o	1010·6	+10	57	-2	N	6	N	b	5	5	64	55	qp	cp	bo. c	1·0
	Roche's Point	993·0	60	SW	3	o	?1006·6	*	56	-3	NNE	5	NE	bc	4	–	64	55	c	c o	c. bc	*
	Birr Castle ...	990·3	64	SW	1	c	1007·2	*	54	+1	N	4	–	c	*	3	68	52	or.cp	cp	qbc	3·7
	Donaghadee ...	994·1	52	SE	5	omr	1003·1	+7	53	0	N	4	N	bcm	4	9	56	51	omp	omr	omr.bc	*
	Liverpool (Bidston)	996·8	56	SE	4	o	996·8	+7	54	0	NNW	4	–	rq	3	13	61	53	op	o	or	0·3
	Holyhead ...	992·5	59	S	4	omq	1000·6	+7	56	+1	N	T	N	om	5	14	63	54	op.om	op.om	c or om	1·0
	Pembroke (St. Ann's)	993·3	57	NW	2	r	1000·2	+7	55	+2	NNW	4	N	opq	5	29	66	52	orf	c	c orf	2·8
	Scilly (St. Mary's)	993·8	60	W	4	cq	1002·2	+12	56	-2	NW	6	NW	omq	6	19	60	55	omr	omr.bc	c.omqp	2·4
	Falmouth ...	992·9	60	WSW	7	r	1000·4	+10	57	+2	NW	6	–	o	4	40	62	54	rq	rq	c o p q	0·5
	Jersey (St. Aubin)	1001·4	61	S	4	omr	1000·1	*	56	-1	WSW	5	–	gqmr	4	20	61	56	op or	orm	oqrm	0·0
	Portland Bill ...	996·1	58	S	5	or	996·4	+4	58	+1	W	4	W	bc	4	26	59	54	c.or	or	orc.bc	*
	Dungeness ...	1003·1	58	WSW	5	or	994·5	0	58	·0	SW	6	–	qr	5	20	59	57	bc.op	or	orq	*
	Dover	1001·7	57	SSE	5	r	994·5	0	?58	?+1	SW	4	w	or	6	19	59	56	cc	or	or.o	2·4
	Wick	1002·9	53	SE	2	b	1005·4	+2	51	0	N	1	–	c	1	–	56	40	bc	bc.b	bc.c	*
	Nairn	1000·5	60	ENE	1	bc	1005·7	*	53	-1	NE	2	–	cq	2	1	63	41	b.opdc	bcq	uc	5·2
	Aberdeen ...	1002·3	55	ESE	3	bc	1004·3	+4	54	-2	NNE	4	–	bc	3	–	61	48	b.bc	bc	bc.b	12·3
	Leith	999·4	56	E	2	r	1003·2	+6	55	+2	NNE	3	NE	c	*	3	66	52	c	c opp	op	*
	Tynemouth ...	999·5	56	SE	3	o	997·0	+3	55	0	NE	4	–	om	4	3	60	53	bc	bc	omp	*
	Spurn Head ...	1001·3	58	S	6	o	986·1	-1	57	+2	ESE	5	–	or	5	21	64	53	bc	opp	opr	2·9
	Yarmouth ...																					
	Clacton-on-Sea	1002·4	58	SSE	6	r	992·1	0	60	+5	WSW	5	SW	bc	4	6	62	53	c.op	op	or.c.bc	0·5
	Nottingham ...	996·9	56	SE	4	o	989·1	*	54	+3	NW	5	NW	r	*	52	60	51	c.op	o	or	0·6
	Bath	994·8	61	S	2	r	995·8	*	60	+6	W	2	W	o	*	20	62	54	rq	rq	r.op	0·1
	Sth Farnborough	997·8	59	SSW	4	r	993·6	+2	60	+5	WNW	4	W	c	*	18	60	54	bc.o	op	ro.bc	0·0
	London (Kew Obsy.)	998·2	58	S	3	or	993·4	+2	59	+3	WSW	4	W	c	*	14	62	56	op.omr	omr.or	or. c	0·0
NORTHERN EUROPE.	Spitsbergen ...	1012·0	39	NE	2	o	1015·5	0	41	+2	–	0	*	b	*	*	41	36				
	Vardö	1012·4	54	–	0	bc	1014·4	0	52	-2	NE	1	–	bc	2	*	55	45				
	Bodö	1006·1	57	NNE	2	b	1006·1	0	61	+9	NE	1	–	bc	1	–	57	50				
	Christiansund	999·1	57	–	0	o	1000·0	+2	55	+1	SW	2	–	o	2	1	59	52				
	Skudesnaes ..	1000·6	54	NNW	6	c	1002·4	0	55	0	N	4	–	c	2	–	57	52				
	Færder (X'tania Fjord)	996·2	59	SSW	2	o	1001·9	+4	59	+4	SW	5	W	b	3	–	61	55				
	The Scaw (Skagen)	998·9	57	WSW	3	o	1004·0	+3	57	0	SSW	2	–	b	2	4	61	50				
	Blaavands Huk	1005·3	59	W	2	b	1000·6	-3	54	-5	SE	2	–	r	3	2	61	54				
	Haparanda ...	1010·7	64	S	2	b	1012·2	0	68	+5	SE	2	S	bc	*	–	68	52				
	Hernösand ...	1007·0	59	SE	2	c	10069	0	57	-4	SSE	4	–	c	*	2	64	57				
	Stockholm ...	1003·0	59	SE	4	o	1006·5	+3	61	+2	SW	2	–	b	*	2	64	54				
	Wisby	1005·0	59	SW	4	c	1008·7	+1	63	+9	WSW	2	SW	b	*	2	64	55				
	Karlstad	996·0	59	SE	4	o	1004·2	+8	55	–	SW	6	–	o	*	21	64	52				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1006·3	61	SSW	3	o	9937	0	61	+2	SSW	4	–	c	3	15	63	55				
	C. Gris Nez ...	1002·0	59	S	5	r	994·3	0	59	+1	SW	6	*	o	6	14	64	57				
	La Hève	1000·2	61	S	6	o	799 5·0	*	60	+1	SW	6	*	r	6	3	63	52				
	Ushant	998·4	61	WSW	6	o	1001·5	*	57	-2	WNW	6	*	r	7	15	61	52				
	Brest (St. Mathieu)	1000·0	59	SW	6	o	1002·5	+2	59	+4	W	7	*	r	7	1	66	57				
	Rochefort (Ile d'Aix)	1010·6	65	SW	6	c	1009·3	+2	62	+2	W	6	*	o	*	3	70	61				
	Biarritz	1011·8	71	NE	3	o	1014·6	+4	64	+1	WNW	4	*	o	2	–	77	64				
	Paris	1006·6	68	S	3	o	1001·9	0	63	+4	SSW	5	–	o	*	Trace	73	59				
	Belfort	1012·0	66	–	0	c	1008·7	*	66	+9	WSW	6	*	o	*	?	?	?				
	Lyons	1012·2	75	SE	2	o	1010·7	*	66	+7	–	0	*	o	*	–	78	62				
	Nice	1011·7	72	–	0	b	1013·1	0	66	-5	–	0	*	o	2	–	81	63				
	Perpignan ...	1013·1	79	SSW	3	b	1011·8	+3	72	-3	–	0	–	bc	*	–	90	61				
	Sanguinaire ...	*	80	W	1	bc	*	*	76	+1	E	2	*	b	3	–	84	68				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1015·3	72	SW	5	o	1019·3	+4	68	0	W	3	–	o	3	1	73	63				
	Madrid (8 a.m.)	1010·6	88	W	1	b	1014·1	+2	?73	?0	–	0	–	b	*	–	90	64				
	Lisbon (9 a.m.)																					
	Gibraltar	1013·2	74	W	4	b	1014·2	*	69	0	NW	2	*	b	1	–	82	66				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1015·7	+3	77	+2	E	2	*	b	1	–	81	73				
	Azores (Horta, 8 a.m.)	10255	*	WSW	4	bc	1027·1	0	71	+2	–	0	*	b	1	–	82	70				
	Madeira (Funchal)	1020·8	73	NE	3	bc	1021·6	+1	70	+4	NNE	3	–	bc	3	–	75	66				

GALES.

Duration and Extreme Force in British Islands.

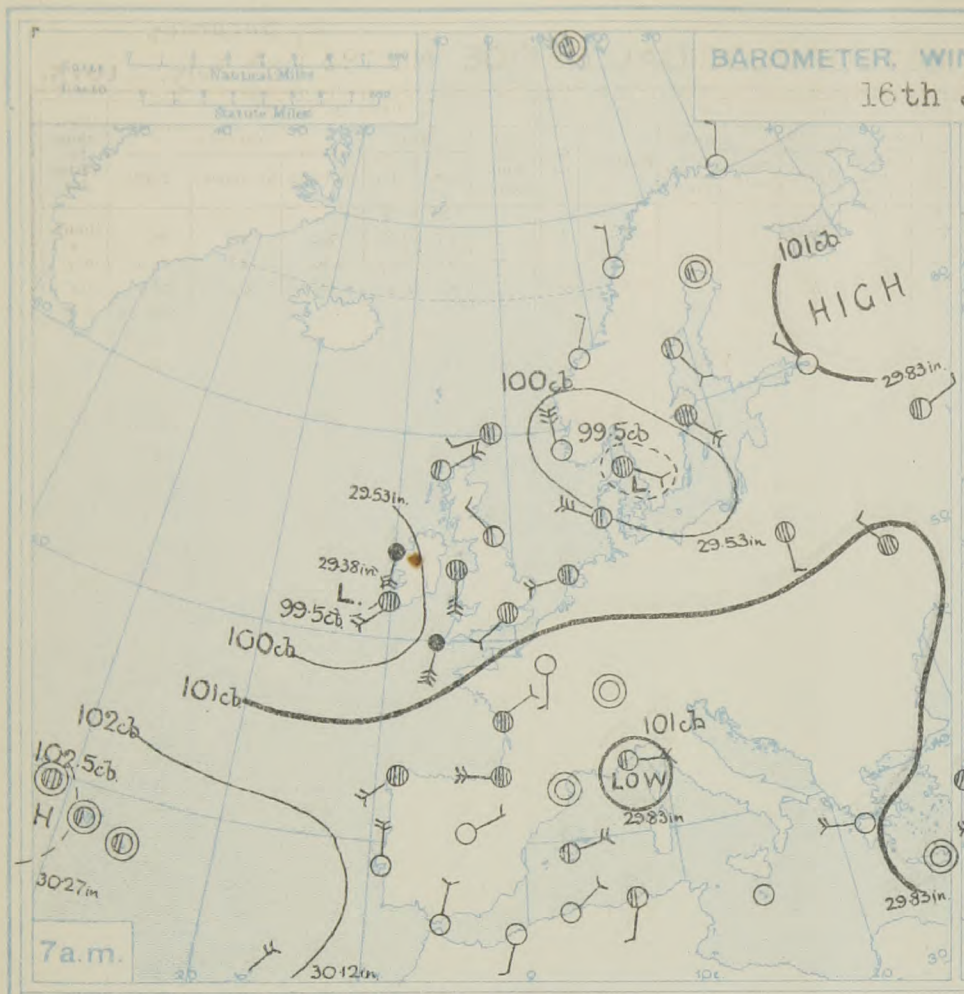
Blacksod ESE + NNE 8
11 a.m – 4 a.m.

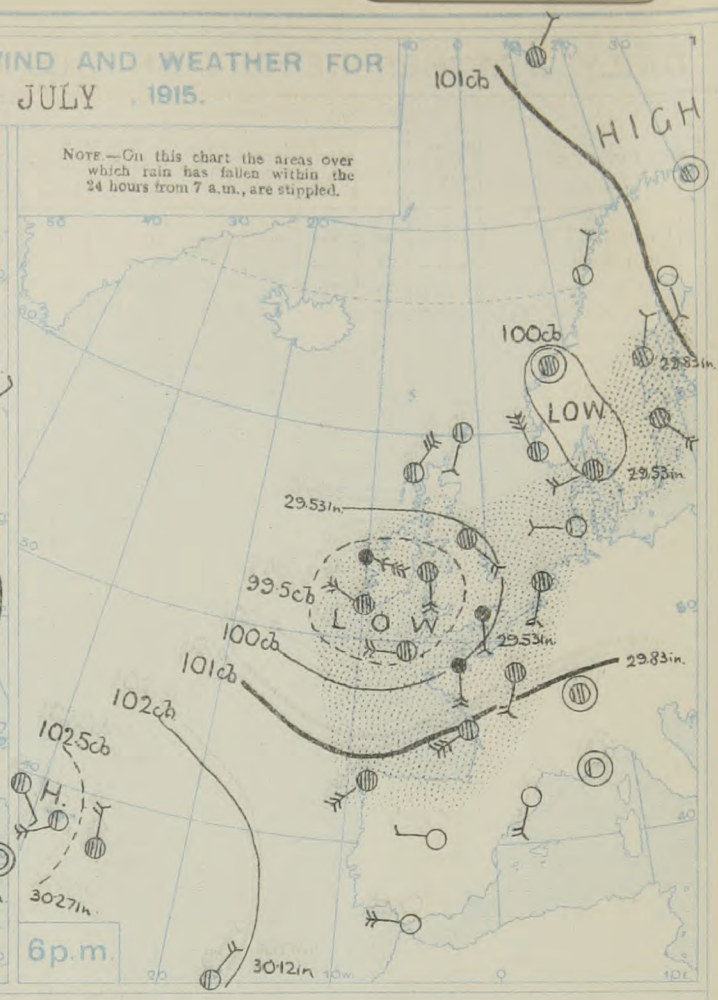
South Farnborough
Pilot Balloon Ascent at about 7 a.m.
Wind at 500 metres WNW 22 m.p.h.
Wind at 1700 metres WNW 34 m.p.h.

* 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 16th JULY 1915.

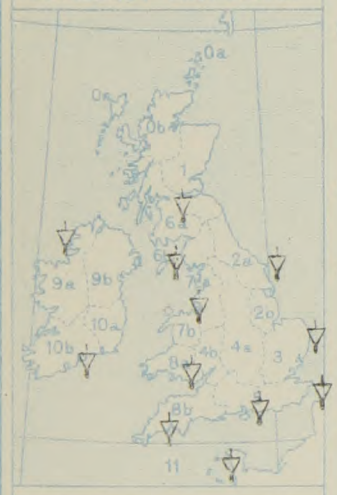
NOTE.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



0 (a, b) } Northerly winds, moderate to strong; changeable, some showers; cool.
1 }

2 (a, b) } Northerly winds, moderate or strong; changeable, some showers; cooler.

3 } Same as No 5.

4 (a, b) } Same as No 2.

5 } Wind veering to North-West or North, moderate to strong; squally, changeable, some showers; becoming cooler.

6 (a, b) } Same as Nos 0 and 1.

7 (a, b) } Northerly winds, moderate to strong; changeable,
8 (a, b) } some squalls and showers, then fairer; cooler.

9 (a, b) } Northerly to North-Westerly winds, fresh to light;
10 (a, b) } some showers, but mostly fair; cool.

11 Western Channel and Bay } North-Westerly and Northerly winds, strong to moderate; sea rather rough; some squalls and showers.

STORM WARNINGS.

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

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

Cones hoisted Yesterday.

FURTHER OUTLOOK.

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

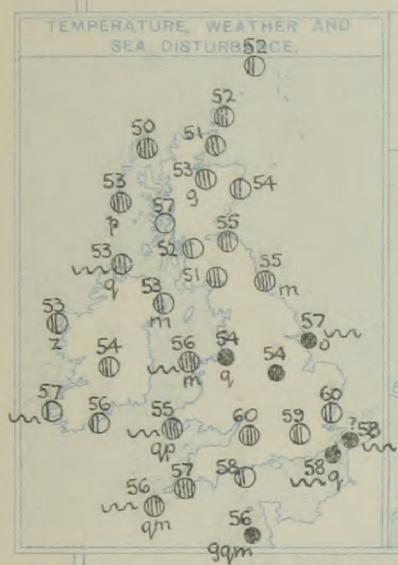
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970
Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 17th JULY, 1915.

GENERAL INFERENCE

The depression seems likely to move north-eastward or eastward over the North Sea.

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 ≈≈≈.

101·5cb. 41 H I G H 29·37in.

101cb 52 60°

100·5cb 61 68 Barometer steady 29·83in.

100cb 55 L O W 29·53in. 55 57 54

1005cb 52 55 Barometer rising 61 55 63 57 29·68in.

50 54 100cb 101cb 53 Barometer 99·5cb 55 99cb Barometer falling 57 LOW 61 55° 57 56 59 61 60° rising 29·38in. 29·53in. 29·68in. 56 63 57 66 29·83in. 60° 62 Generally 66 70°

101·5cb. 102cb. 68 67 72 76 73 77 71 H I G H 102·5cb 30·27in. 69 29·97in. 70° 70 30·12in.

Scale 1 : 2·10 Nautical Miles 0 1 2 3 4 500 Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Saturday, 17th July, 1915.

REPORTS FOR YESTERDAY.

16th July 1915.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1007·8	64	NW	2	0	1010·0	+2	63	+2	NW	1	–	b	*	· ·	70	57

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	–	63	44	c.b	bc.c	1·6
	Banff	–	59	42	bc.bc	bc	6·7
	Carnoustie	–	59	44	bc.c	b	6·4
	St. Andrews	–	60	41	*	*	6·4
Eng. N.E.	Harrogate	–	60	46	bc.c.o	o	2·5
	Skegness	1	62	45	b	b.op	?
Eng. N.W.	Morecambe	2	62	50	o	or.o	0·1
	Blackpool	2	61	49	d	o	0·1
	Southport	1	60	50	o.c.o	op.o	0·5
Midlands.	Buxton	Trace	56	46	bc	bc.ro	0·4
	Leamington Spa	2	59	48	or	or	0·2
	Malvern						
	Ross-on-Wye	2	60	51	org	op	0·0
Wales.	Rhyl	13	62	46	o bc	f.op.bc	3·0
	Colwyn Bay	–	65	49	c bc	bc	2·8
	Llandudno	0·4	68	50	b.bc	b	3·8
	Aberystwyth	5	68	52	r.o.c	c.o	4·3
	Tenby	22	63	53	r	bcr	0·2
England, E.	Cromer	2	65	49	bc c o	p.or.om	3·3
	Lowestoft	†	64	49	c.op	op	4·3
	Felixstowe	0·3	61	51	bc c	op	1·7
	Walton-on-Naze	2	61	50	cp	ogr	1·4
	Southend-on-Sea	3	63	51	bc.cp	or	1·0

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, S.E.	Tunbridge Wells	8	59	54	bc.op.o	op.or	0·3
	Margate	11	62	50	o	or	1·8
	Ramsgate	?	60	47	c.o	or	1·3
	Hastings	8	59	49	bc.o	or	0·7
	Bexhill-on-Sea	10	61	49	o	or	0·0
	Eastbourne	10	59	53	bc.o	or	0·6
	Seaford						
	Brighton	11	59	51	o	or	0·2
	Worthing	11	59	47	or	r	0·0
	Littlehampton	11	59	?	o	p	0·3
	Bognor	4	59	49	op	or	0·0
	Southsea	13	59	53	or	or	0·0
	Bournemouth	22	59	49	or	or	0·0
England, S.W.	Weymouth	25	59	53	or	r	0·0
	Torquay	17	61	52	r.or	r.or	0·0
	Paignton	23	61	50	or	or	2·0
	Falmouth	40	62	52	fog	fog	0·0
	Penzance	38	63	54	or	or.c	0·0
	Newquay	35	63	51	ond.or	or.orf.	0·0
	Ilfracombe	26	63	54	ol	d.or	0·0
	Weston-super-Mare	15	62	50	r.c	r	0·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	87	72	0·2	63	55	52	16	o.op	op	or
City (Bunhill Row)	*	*	0·5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	75	0·3	63	56	54	14	or	o.op	or
Camden Sq. (Brit. Rainfall)	88	69	0·0	64	56	53	16	o.or	or	*
Hampstead (Reservoir)	*	72	0·6	60	53	42	19	or	or	or.o
Richmond Park	*	*	0·1							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.)	85	67	0·4

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
621 Joules	107 Milliwatts.	47 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								
Darwen, to 9 p.m.	1	59	47	44	bcw	ebr	ore	1·1
Manchester ,,								
Birmingham ,,								
Oxford to 8 p.m.	*	59	50	43	bc.o	o.or	or	*
Teignmouth to 9 ,,	22	62	53	49	b.c.or	or	or	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	6	65	50	44	bc.b	o.c.or	or.oe.or	*

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

17th & 18th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 50 / 3 51	11 59 / 11 59	8 7 / 8 6
Greenwich	4 44 / 4 43	12 6 / 12 6	8 8 / 8 7
Wick	3 34 / 3 35	12 18 / 12 18	9 1 / 9 0
Valencia	4 41 / 4 42	12 47 / 12 47	8 52 / 8 51

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° over the greater part of the United Kingdom, below 60° in several localities. Large quantities of rain fell except in the extreme north; more than 25 mm. at several stations, 40 mm. at Falmouth, and 52 mm. 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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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 199. Sunday, 18th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1009.4	52	NNW	3	o	1012.9	+1	53	+1	NW	3	NW	bc	2	1	55	48	cp	c	bc	*
	Deerness ...	1011.2	53	NW	4	bc	1015.2	*	54	+2	W	4	NW	bc	1	1	58	47	cp.c	c.bc	bc	4.7
	Stornoway ...	1014.7	56	NW	4	bcq	1016.9	+1	55	+5	W	4	–	cq	4	2	58	49	ordp	o.cdqp	bc.cqp	3.4
	Castlebay (Barra Isd.)	1015.5	55	NW	3	c	1018.7	0	55	+2	SW	3	–	o	3	–	58	53	op.c	c.bc	c.o	10.2
	Glasgow ...	1012.0	62	WNW	2	c	1020.0	+3	52	0	WNW	2	–	b	*	0.2	66	44	b.bc.c	o.c.op.c	cp.bc.b	8.6
	Eskdalemuir ...	1011.7	57	NE	2	cv	1020.0	+4	54	+3	W	3	NW	b	*	1	60	48	c.o	o c	cp.bc.b	4.6
	Malin Head ...	1015.8	55	NNW	4	bcq	1020.0	0	55	+2	SW	2	–	bc	2	–	57	50	bcq	cqp	bc	9.1.7
	Blacksod Point	1019.1	56	NNW	3	bc	1020.0	−2	55	+2	S	3	SW	bc	2	–	59	50	bc	bc	bc	*
	Valencia ...	1021.3	60	NW	3	bc	1022.2	0	56	−1	S	3	–	d	3	0.1	62	49	c	c	bc c.o	7.0
	Roche's Point	1019.3	61	NNW	4	bc	1021.2	*	53	−3	–	0	–	o	1	0.1	65	49	bc.c	bc	bc.bc.o	*
	Birr Castle ...	1017.7	59	NW	3	c	1022.6	*	54	0	SW	1	W	bc	*	–	62	47	c	c	bc	3.2
	Donaghadee ...	1014.3	55	NNW	4	bcm	1020.7	+2	53	0	NW	2	–	b	2	–	58	47	bcm	bcm	bcm.b	*
	Liverpool (Bidston)	1015.6	58	WNW	4	c	1021.0	+3	54	0	WNW	3	N	o	3	–	63	53	oq	bcq	bc.o	5.1
	Holyhead ...	1014.4	57	NW	5	bcq	1022.8	+3	59	+3	NW	4	–	bc	3	–	61	52	o.c.bc.b	b.bc.o.c	b.bc.b	10.1
	Pembroke (St. Ann's)	1016.1	59	N	3	bc	1023.4	+3	56	+1	NW	2	NW	bc	2	–	62	53	qp	bcq	bc	6.0
	Scilly (St. Mary's)	1018.5	60	NW	4	bc	1024.4	+2	56	o	NW	1	NW	c	5	–	62	53	bcm	bc	bc.c	7.4
	Falmouth ...	1017.1	62	NW	4	b	1023.7	+3	59	+2	NW	2	–	b	3	Trace	63	52	cq	b	bc	8.7
	Jersey (St. Aubin)	1013.0	62	WNW	4	b	1023.8	*	60	+4	NW	3	NW	bc	3	0.4	64	54	r.o.bc	bc.b	b.bc	8.5
	Portland Bill ...	1012.1	61	WNW	5	bc	1022.4	+6	57	−1	NNW	3	NW	bc	3	–	64	53	bc.c	bc	bc.b	*
	Dungeness ...	1006.8	56	NW	5	oq	1020.5	+5	56	−2	NW	3	NW	bc	2	2	65	45	bc.orq	orq.o	o.c.b.bc	*
	Dover	1006.9	55	NW	6	o	1021.1	+5	60	+2	NW	4	NW	b	2	0.2	66	49	o.c.bc	op.nq	o.c.bc	2.6
	Wick	1011.8	53	NNW	4	o	1015.8	+2	53	+2	WNW	3	–	c	2	0.4	56	45	c.o	ogp	og.op	*
	Nairn	1012.5	58	NNE	4	cgq	1017.4	*	55	+2	NNW	3	–	bc	3	1	60	46	cpd	gp.bc	g.c.bc	3.4
	Aberdeen ...	1011.8	64	NNW	4	o	1017.2	+2	56	+2	WNW	3	–	b	2	–	61	46	bc.c	c.o	c.bc.b	7.8
	Leith	1011.2	58	ENE	2	c	1019.2	+4	53	−2	W	3	–	b	*	0.3	60	48	c	bc.cp	bc.c	*
	Tynemouth ...	1010.0	56	NNW	4	b	1019.1	+3	55	0	NW	2	–	b	4	–	57	49	cgp	cg	b	*
	Spurn Head ...	1007.0	56	N	8	c	1017.7	+4	55	−2	N	6	–	bcq	7	1	65	53	or	cq	cq	2.3
	Yarmouth ...	1002.6	55	WNW	7	r	1018.7	+6	55		WNW	3	–	bc	4	?	?	?	or	or	orq.bc	0.2
	Clacton-on-Sea	1003.7	55	WNW	6	r	1020.2	+5	55	−5	NW	3	NW	bc	2	4	63	47	bc.ogd	ogd	ogd.bc	2.9
	Nottingham ...	1009.6	60	NNW	5	b	1020.1	*	55	+1	WNW	1	NW	c	*	9	60	52	r	o.b	bm.c	3.2
	Bath	1012.1	64	NW	1	c	1022.3	*	57	−3	WNW	1	W	bc	*	0.2	67	48	p.o.c.bc	bc.c	c.bc	5.8
	Sth Farnborough	1009.4	60	NW	2	c	1021.4	+5	55	−5	NW	2	NW	bcw	*	–	63	45	op	o c	c.b	2.1
	London (Kew Obsy.)	1009.8	59	NNW	4	bc	1021.7	+5	53	−6	WSW	2	NW	bc	*	1	61	50	c.o.od	od o.bc	bc.b.bc	2.0
NORTHERN EUROPE.	Spitsbergen ...	1016.7	41	NNW	4	b	1015.3	−1	46	+5	SE	1	*	b	*	*	46	37				
	Vardö	1015.9	52	SE	1	b	1017.3	o	52	o	ESE	4	–	bc	1	*	55	46				
	Bodö	1005.9	61	E	4	c	1012.3	+3	52	−9	–	o	–	o	o	–	63	48				
	Christiansund	1008.3	54	SW	1	c	1009.5	+2	54	−1	NE	1	–	o	2	Trace	55	52				
	Skudesnaes ..	1004.4	55	NW	6	c	1007.4	+3	54	−1	NNW	6	–	b	2	–	59	46				
	Færder (X'iania Fjord)	1005.1	57	NE	2	r	1001.1	−2	55	−4	NE	6	–	r	3	20	61	54				
	The Scaw (Skagen)	1002.3	59	E	3	r	1000.2	+2	59	+2	E	2	–	m	3	9	61	55				
	Blaavands Huk	997.5	63	SW	2	b	1001.6	+3	55	+1	NW	5	–	r	5	13	63	54				
	Haparanda ...	1010.6	73	SW	2	b	1012.3	o	68	o	–	o	–	b	*	–	73	57				
	Hernösand ...	1009.3	61	S	2	b	1011.8	o	59	+2	N	2	E	bc	*	–	68	50				
	Stockholm ...	1007.9	61	S	2	o	1007.8	o	55	−6	SE	2	–	r	*	F	68	54				
	Wisby	1008.7	64	S	2	b	1004.8	?	61	−2	ESE	4	–	o	*	3	64	56				
	Karlstad	1006.3	64	NNE	2	c	1003.1	−3	56	o	E	6	–	r	*	16	66	55				
	Petrograd (5 a.m. G.M.T.)	1006.9	70	ENE	1	o	1007.1	o	64	−2	NNE	1	–	o	*	–	73	61				
FRANCE, &c.	The Helder ...	997.2	59	S	1	c	1013.0	+8	57	−4	NW	7	–	bc	6	4	64	55				
	C. Gris Nez ...	1005.3	57	WNW	7	o	1019.7	+6	55	−4	NW	3	*	o	3	8	61	55				
	La Hève	1011.0	64	NW	4	b	1021.9	*	60	o	NNW	3	*	bc	4	5	64	54				
	Ushant	1021.2	59	NNW	5	c	1025.3	*	57	o	NW	2	*	b	3	–	63	54				
	Brest (St. Mathieu)	1019.3	59	NW	5	b	1026.0	+2	57	−2	NW	2	*	b	3	–	66	55				
	Rochefort (Ile d'Aix)	1017.6	63	WNW	6	o	1024.8	+4	59	−3	NNW	4	*	bc	*	–	68	57				
	Biarritz	1021.2	66	WNW	4	o	1023.9	o	65	−2	N	2	*	c	4	–	70	63				
	Paris	1009.1	64	W	4	c	1021.7	+5	59	−4	NNW	2	–	b	*	Trace	70	48				
	Belfort	1010.0	65	WSW	6	c	1020.0	*	54	−12	W	6	*	o	*	8	69	46				
	Lyons	1012.8	72	WNW	3	b	1022.3	*	59	−7	NNW	2	*	o	*	–	73	57				
	Nice	1010.3	67	SW	5	o	1011.0	+4	72	+6	–	o	*	b	3	Trace	81	61				
	Perpignan ...	1015.0	72	SW	5	o	1024.6	+2	68	−4	NW	4	NW	b	*	–	75	61				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023.9	66	NNE	5	b	1026.0	+2	63	−5	NE	4	–	b	3	?	68	57				
	Madrid (8 a.m.)	1011.1	88	WNW	1	b	1020.8	+3	66	−7	N	1	–	b	*	–	90	59				
	Lisbon (9 a.m.)	1017.3	73	NNW	5	b	1016.4	+1	68	0	N	2	–	b	5	–	79	64				
	Gibraltar							*					*									
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1013.2	o	78	−2	N	1	–	b	1	–	82	72				
	Azores (Horta, 8 a.m.)	1028.6	*	SW	4	b	1028.2	o	68	−3	–	o	*	b	1	–	82	68				
	Madeira (Funchal)	1020.2	73	NE	3	bc	~~1018.6~~	o	68	−2	NNE	4	–	b	4	–	75	68				

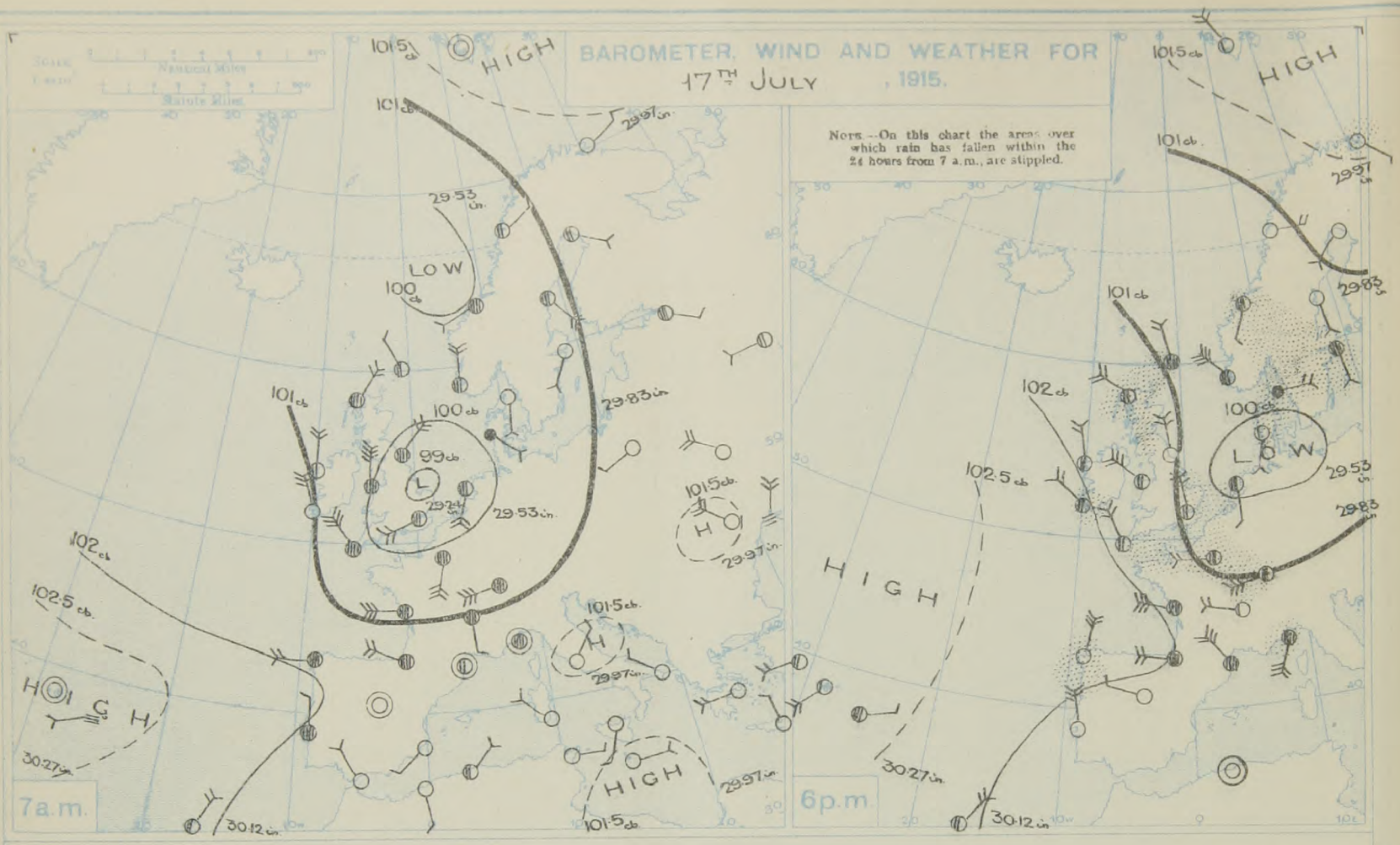
GALES.

Duration and Extreme Force in British Islands.

Spurn Head
17th 1pm to 9p.m. N 8.

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

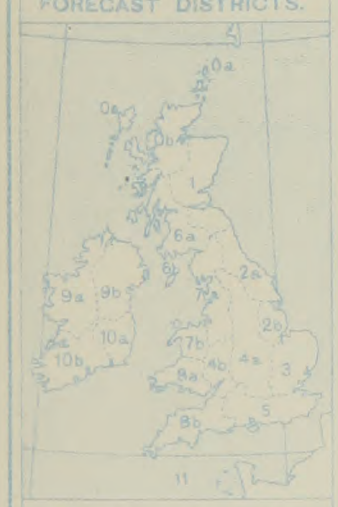
BAROMETER, WIND AND WEATHER FOR 17TH JULY, 1915.



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 SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



0a, 0b, 1	Wind backing to South-West or South, light or moderate; fair, then dull and some rain; rather cool.
2a, 2b, 3, 4a, 4b, 5	Wind North-Westerly, backing gradually to West or South-West, light or moderate; mostly fair, then some rain; rather cool.
6a, 6b	Same as Nos. 0 and 1.
7a, 7b, 8a, 8b	Wind backing to South-West or South, light or moderate, then freshening; becoming overcast and some rain; rather cool.
9a, 9b, 10a, 10b	Wind between South and West, increasing in force; mostly cloudy or overcast; rain at times; rather cool
11	North-Westerly to South-Westerly or Southerly winds; sea slight to moderate; weather becoming overcast, with some rain.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay

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

FURTHER OUTLOOK.

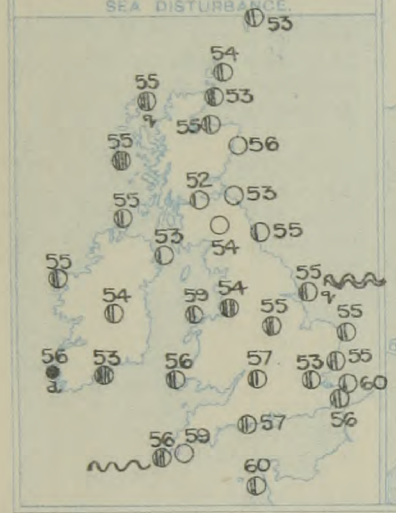
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 18TH JULY, 1915.

GENERAL INFERENCE.

The fall of the barometer which has begun in Ireland is likely to extend to the whole kingdom within the ensuing twenty-four hours, and cause the wind to back to South-West or South very generally, with rain in most places

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

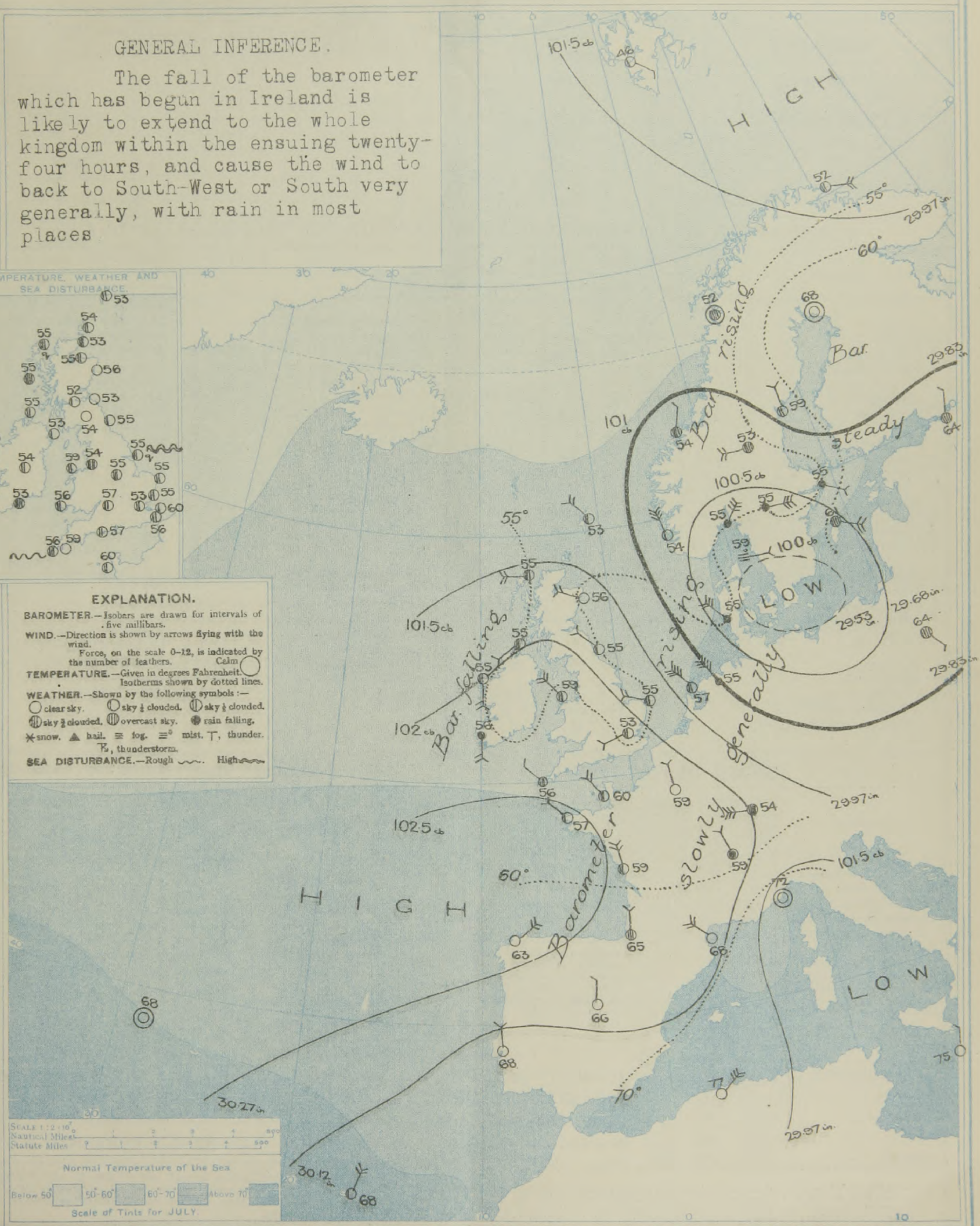
BAROMETER.—Isobars are drawn for intervals of five millibars.

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈



DAILY WEATHER REPORT. Sunday, 18th July 1915.

REPORTS FOR YESTERDAY.

17th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1011·3	70	E	1	bc	1017	0	66	+3	ESE	1	S	C	*	-	73	59
Lisbon	1016·3	73	NNW	5	b	1018·0	+1	68	0	N	1	-	0	2	40	79	64
Rome	1014·6	77	-	0	b	1015·3	+1	75		NE	1	-	b	*	-	86	66

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

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
Scotland.	Oban	-	62	44	b	bc	6·5
	Banff	?	58	40	c.bc	bc.p.c	7·4
	Carnoustie	1	61	48	bc.o.c	c.o.p.g	7·7
	St. Andrews				*	*	
Eng., N.E.	Harrogate	31	59	50	o	o.c.bc.b	3·2
	Skegness	19	61	53	o	o.r.g	0·9
Eng., N.W.	Morecambe						
	Blackpool	8	64	53	o.c	bc	8·0
	Southport	8	63	52	o.c.bc	c.bc.c	5·5
Midlands.	Buxton	15	58	50	r	b	1·8
	Leamington Spa	18	63	53	r	o.c.bc	2·2
	Malvern						
	Ross-on-Wye	22	66	53	o.bc.c.g	bc.v	5·0
Wales.	Rhyl	8	61	44	c	bc	1·7
	Colwyn Bay						
	Llandudno						
	Aberystwyth	8	62	54	r.o.c	c.bc	7·0
	Tenby	6	65	53	b	bc	7·8
England, E.	Cromer	24	58	58	o.d.g.r	o.g.d	0·0
	Lowestoft						
	Felixstowe	23	63	56	o.g.r	o.g.r	2·2
	Walton-on-Naze	9	58	54	bc.o.d.g	o.d.g	3·1
	Southend-on-Sea	7	63	54	b.bc.r	o	2·5

	STATIONS.	Rainfall. mm.§	Temperature. Max. °F.	Temperature. Min. °F.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m. Hr.
England, S.E.	Tunbridge Wells	20	66	53	c.bc.o	o.r.o	2·5
	Margate	13	65	56	c.g	o.g.p	1·6
	Ramsgate	21	65	55	c.o.r	o–d	2·2
	Hastings						
	Bexhill-on-Sea	16	65	57	o	o.r.o	0·0
	Eastbourne	15	65	57	o.b.bc.p	o.g	3·6
	Seaford	10	66	57	bc.c	o.c	4·0
	Brighton	11	66	57	c.o.p.o	c.o.c	6·3
	Worthing	11	66	57	pc.bc	bc	5·2
	Littlehampton	7	?	59	bc	bc	4·7
	Bognor	4	66	58	o	o.bc	6·5
	Southsea						
	Bournemouth	4	67	53	c	c.bc.b	7·5
England, S.W.	Weymouth	6	67	56	bc	b.g	9·0
	Torquay	7	65	55	o.c.bc	bc.b	12·2
	Paignton	6	66	54	o.bc	bc	12·3
	Falmouth	7	63	56	c.g	b	6·9
	Penzance	1	64	56	bc	b	7·0
	Newquay	1	61	56	o.b	b.v	6·5
	Ilfracombe	22	63	56	o.c.bc	bc.b	7·0
	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday. %	Humidity. 9 a.m. To-day. %	Sunshine for Yesterday. Hr.	Temperature. In Screen. Max. °F. (24 hours ended 9 a.m. To-day.)	Temperature. In Screen. Min. °F. (24 hours ended 9 a.m. To-day.)	Temperature. Min. on Grass. °F. (24 hours ended 9 a.m. To-day.)	Rainfall. mm.§ (24 hours ended 9 a.m. To-day.)	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
Greenwich (Royal Obsy.)	91	77	2·6	63	49	40	1	o	o	c.o
City (Bunhill Row)	*	*	3·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	97	75	2·9	68	48	-	0·1	od.r	r.4d	bc.o
Camden Sq. (Brit. Rainfall)	92	78	1·8	64	48	45	1	o.or	or.c	*
Hampstead (Reservoir)	*	57	2·3	60	46	31	2	bc.op	o	c.o
Richmond Park	*	*	1·5							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	72	2·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
687 Joules	119 Milliwatts.	49 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall. mm.§	Temperature. In Screen. Max. °F.	Temperature. In Screen. Min. °F.	Temperature. Night Min. on Grass. °F.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday. Hr.
Dublin to 4 p.m.	24	63	52	51	r.b.o	c.b	bc	*
Darwen to 9 p.m.	22	60	50	50	or	or.b	bc	3·6
Manchester ,,	25	64	53	*	or	or.o.c.d	o.c.o	2·5
Birmingham ,,	? 40	63	52	50	*	r.o	c	3·4
Oxford to 8 p.m.	*	62	55	49	or.o	or	or.c	*
Teignmouth to 9 ,,	1	66	56	53	c.p.bc	bc	bc.b	13·5
Plymouth ,,	3	63	56	51	bc.v	o.g	c.b.g	8·4
S. Kensington (Museum Grounds to 6 p.m.)	7	62	56	53	or.o	o.c.r	o.p.o	*

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

18th–19th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·51 / 3·52	11·59 / 11·59	8·6 / 8·5
Greenwich	4·5 / 4·7	12·6 / 12·6	8·7 / 8·6
Wick	3·35 / 3·37	12·18 / 12·19	9·0 / 8·59
Valencia	4·42 / 4·44	12·47 / 12·47	8·51 / 8·50

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° over the greater part of the United Kingdom, and in some places failed to touch 60°. Rain, mostly slight, was experienced in all districts, and the records of bright sunshine were small except in the south-west and at some northern stations.

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

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 200. { Monday 19th July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1015·9	57	W	2	bc	1009·8	-3	55	+2	SE	4	-	c	3	-	857	50	bc	bc	c	*
	Deerness ...	1013·9	57	W	3	c	1006·1	*	51	-3	SSE	5	-	d	4	2	60	50	bc	bc.c	c.oc	5·3
	Stornoway ...	1014·9	58	SW	5	cg	1002·9	-1	57	+2	SSW	5	-	cg	4	5	63	52	cpg	cg	or.opg	2·6
	Castlebay (Barra Isd.)	1014·7	55	SE	4	r	1004·7	-2	58	+3	S	4	-	op	5	17	59	53	o.bc	bc.or	r.op	7·5
	Glasgow ...	1018·3	60	WSW	2	c	1009·1	-2	59	+7	SW	4	-	od	*	15	68	52	b.bc.c	c.bc.c	c.org	10·4
	Eskdalemuir ...	1019·2	56	SSW	4	cv	1011·6	-2	56	+2	SSW	5	-	orm	*	13	62	50	b.bc	bc.c	c.or.dm	4·9
	Malin Head ...	1014·0	56	S	4	cmp	1007·2	-1	59	+4	SSW	3	SW	bcm	9	3	64	54	bc	cmp	bcm	0·0
	Blacksod Point	1013·0	59	SSW	7	omd	1007·0	-3	57	+2	SSW	7	SW	bcm	5	2	63	52	cmd	omd	om.omd	*
	Valencia ...	1018·8	61	SW	3	o	1012·3	-3	61	+5	SSW	5	-	opg	4	8	62	55	dm	d.o	od.org	0·0
	Roche's Point	1021·3	58	SW	3	m	1016·5	*	58	+5	SW	4	-	r	4	2	60	53	od	df	df	*
	Birr Castle ...	1017·9	60	S	2	o	1011·8	*	62	+8	S	3	-	o	*	1	64	53	bc.cp	od.o	o	3·2
	Donaghadee ...	1017·8	58	SSW	4	omr	1010·2	-2	60	+7	SSW	3	-	ogm	3	1	68	52	cg	cg	omr.gp	*
	Liverpool (Bidston)	1021·7	58	WNW	1	o	1015·4	-1	63	+9	SSW	2	SW	cv	2	-	64	54	bc	bc.o	c.b	3·1
	Holyhead ...	1021·1	57	SSW	5	cg	1014·7	-2	57	-2	SW	6	-	fe	5	1	62	58	b.bc.b	b.bc.op	od.fe	8·5
	Pembroke (St. Ann's)	1023·5	56	SW	3	c	1018·5	-2	58	+2	SW	5	-	fd	5	Trace	60	53	bc	bc	cp.dm	6·2
	Scilly (St. Mary's)	1024·2	59	SSW	3	o	1021·1	-2	58	+2	SW	4	SW	ome	5	-	63	55	c.	c.o	ome	5·1
	Falmouth ...	1024·5	59	SW	3	c	1020·9	-1	59	0	SW	5	-	o	4	1	66	56	bc	bc.c	c.od.o	8·5
	Jersey (St. Aubin)	1025·8	64	WNW	3	b	1024·5	*	60	0	SW	3	SW	c	2	*	63	55	b	b	bc	13·7
	Portland Bill ...	1024·3	58	WSW	5	b	1022·4	-2	57	0	SW	5	-	o	3	-	61	55	bc	bc	bc.c.o	*
	Dungeness ...	1023·4	61	SW	3	b	1023·4	-1	59	+3	SW	4	W	o	4	-	64	55	bc.c.bc	bc.b	bc.o	*
	Dover	1023·4	59	SW	2	bc	1022·3	0	58	-2	SW	3	SW	c	4	-	61	50	bc.b	bc.b.bc	bc.c	9·6
	Wick	1016·6	54	SW	2	o	1005·8	-5	58	0	SSE	4	-	c	4	3	59	51	cp.omr	omr	op.cg	*
	Nairn	1015·7	61	W	2	bc	1005·5	*	57	+2	-	0	-	cu	0	3	65	51	cg.bc	c.bc	v.cp	3·5
	Aberdeen ...	1017·1	58	ESE	2	c	1009·0	-3	54	-2	S	3	-	o	2	10	66	52	bc.c.o	o.c	bc.or	7·8
	Leith	1018·0	65	WSW	2	bc	1009·3	-3	62	+9	SW	3	-	r	*	6	66	53	b.bc	bc	bc.c	*
	Tynemouth ...	1019·1	58	SE	2	bc	1012·7	-4	61	+6	SSW	2	W	cm	3	-	64	54	bc	bc	cm	*
	Spurn Head ...	1021·7	60	SW	4	o	1017·6	-2	58	+3	SW	4	-	cg	5	-	64	52	bc	bc.o	o.bc	8·2
	Yarmouth ...	1023·0	59	SSE	2	bc	1020·3	-2	60	+5	WSW	2	W	bc	3	-	64	54	bc	b.bc	bc	*
	Clacton-on-Sea	1022·9	62	SSW	2	bc	1020·2	-2	59	+4	SSW	4	SW	c	3	-	66	54	bc.c	c.bc	bc.coc	10·4
	Nottingham ...	1021·4	62	WSW	2	bc	1017·5	*	61	+6	SW	4	SW	c	*	-	67	54	c.bc	bc	bc.c	7·2
	Bath	1023·3	63	W	1	bc	1020·7	*	62	+5	W	2	W	o	*	-	67	56	b.bc.o	b.bc.c	bc.co	9·7
	Sth Farnborough	1022·9	66	WNW	1	bc	1021·2	-1	58		SW	3	-	o	*	-	68	54	bc	c.bc	bc.o	10·3
	London (Kew Obsy.)	1023·3	66	WSW	1	bcv	1021·3	-1	60	+7	SW	3	-	o	*	-	68	53	bc.o.bc	bc.bw	bw.bc.o	5·5
NORTHERN EUROPE.	Spitsbergen ...	1011·9	45	N	2	o	1013·5	+4	43	-3	-	0	*	o	*	*	50	41				
	Vardö	1017·6	50	SE	6	c	1017·5	?	48	-4	ESE	2	-	f	2	*	52	46				
	Bodö	1011·0	55	NNE	1	bc	1012·8	+1	52	0	-	0	-	r	0	2	55	48				
	Christiansund	1018·3	52	NW	2	o	1014·0	0	54	0	NE	2	-	c	2	1	54	52				
	Skudesnaes ..	1012·4	55	NNW	7	b	1013·5	0	54	0	NNW	2	-	o	2	-	55	45				
	Færder (X'iania Fjord)	1004·4	57	NNW	5	o	1008·8	+3	57	+2	NNE	5	-	o	2	6	61	55				
	The Scaw (Skagen)	1004·6	57	NW	4	o	1008·7	+2	55	-4	WNW	4	-	o	4	*	63	55				
	Blaavands Huk	1012·6	56	NNW	7	o	1017·3	+2	57	+2	NW	3	-	c	4	10	57	54				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1021·5	57	WNW	5	c	1020·3	-1	61	+4	SSW	3	-	c	-2	Trace	61	55				
	C. Gris Nez ...	1023·4	60	SW	4	c	1022·9	0	60	+5	SW	5	*	b	4	-	63	55				
	La Hève	1025·3	?	NNW	3	b	?1025·6	*	57	-3	SSW	2	*	o	2	-	66	50				
	Ushant	1027·0	59	W	2	c	1024·3	*	58	+1	SW	2	*	b	3	-	66	54				
	Brest (St. Mathieu)	1027·4	64	WNW	2	b	1024·3	-1	59	+2	SE	3	*	bc	3	-	72	57				
	Rochefort (Ile d'Aix)	1025·5	63	NW	4	b	1024·8	-1	61	+2	E	3	*	b	*	-	68	56				
	Biarritz	1026·2	68	NNE	3	b	1022·9	-2	60	-5	E	2	*	b	4	-	72	55				
	Paris	1024·4	64	NNE	2	b	1025·7	0	57	-2	-	0	-	b	*	-	70	46				
	Belfort	1025·2	59	W	3	c	1027·3	*	54	0	-	0	*	m	*	-	66	43				
	Lyons	1023·7	64	N	2	b	1025·1	*	57	-2	N	3	*	b	*	-	69	51				
	Nice	1011·8	76	SW	2	b	1016·8	+2	73	+1	-	0	*	b	2	-	82	63				
	Perpignan ...	1021·2	73	NW	3	b	1022·0	+1	70	+2	N	2	-	b	*	-	81	59				
	Sanguinaire ...	*	77	NW	4	m	*	*	75		SE	2	*	m	4	-	84	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·7	68	NE	6	b	1018·7	0	63	0	S	1	-	b	2	-	68	55				
	Madrid (8 a.m.)	1014·9	88	W	6	b	1019·3	+1	72	+6	E	1	-	b	*	-	90	64				
	Lisbon (9 a.m.)	1012·7	90	NNW	4	b	1013·9	+2	75	+7	-	0	-	b	5	-	93	68				
	Gibraltar	1016·6	75	E	6	o	1016·9	*	74		E	7	*	c	4	-	83	70				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1013·6	+2	73	-2	W	5	-	b	3	-	89	72				
	Azores (Horta, 8 a.m.)	1027·5	*	SW	3	c	1026·6	0	69	+1	-	0	*	b	1	-	81	66				
	Madeira (Funchal)	1015·9	73	NNE	4	o	1015·1	0	70	+2	N	3	-	o	3	-	75	68				

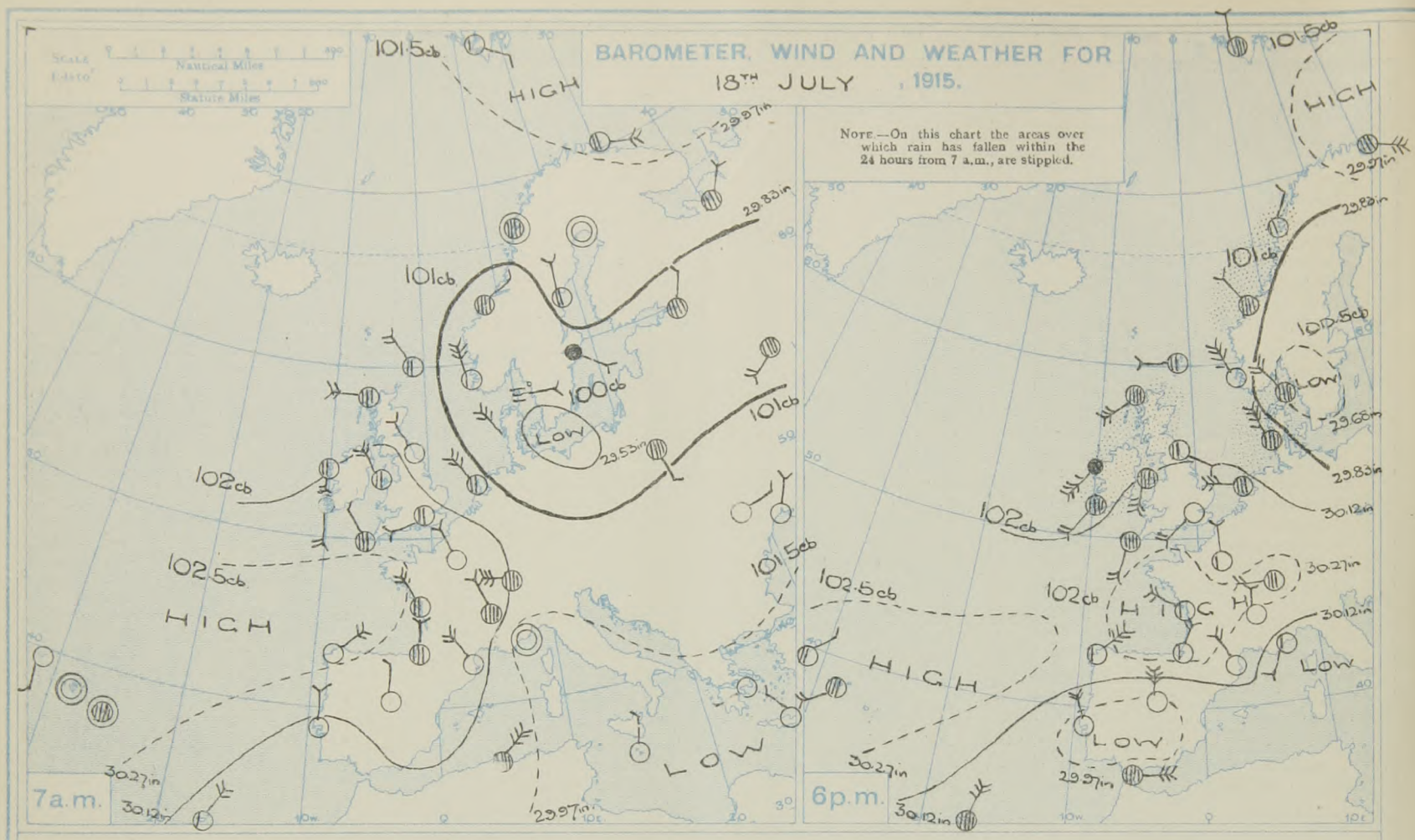
GALES.

Duration and Extreme Force in British Islands.

Blacksod Point

19th at 1 a.m. S.S.W. 8.

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



FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

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 To-day at 8.50a.m in Disks 6 to 10

Western Channel and Bay

0 a b, 1 — Southerly and South-Westerly winds, light to fresh; much cloud, occasional rain; moderate temperature.

2 a b, 3, 4 a b, 5 — Wind between South-West and South, light or moderate, fresh at times; much cloud, some rain later; moderate temperature.

6 a b — Southerly and South-Westerly winds, moderate to strong; rainy; moderate temperature.

7 a b, 8 a b, 9 a b, 10 a b — Wind between South-West and South, moderate to strong or high; rainy or showery, some fog on coast, then fairer; moderate temperature.

11 — South-Westerly to Westerly winds, moderate to high; sea rather rough or rough; some rain and fog.

FURTHER OUTLOOK.

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

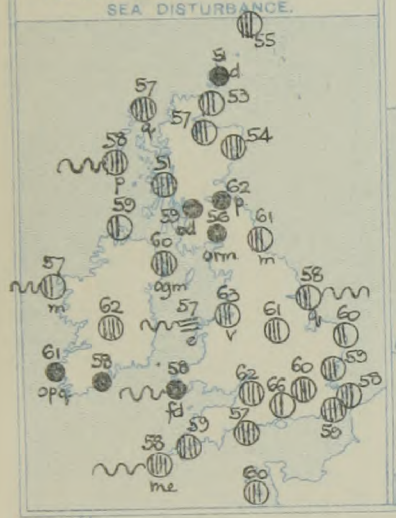
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., MONDAY, 19TH JULY, 1915.

GENERAL INFERENCE.

The depres-ion off our north-west coasts will cause an increase of wind in many parts of the Kingdom.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

HIGH

29.97in

101.5cb

101cb

29.83in

29.68in

LOW Barometer

Barometer rising

100.5cb

60°

30.12in

101cb

101.5cb

30.27in

Generally HIGH

102.5cb

102cb

102cb

Barometer rising

70°

101.5cb

LOW

29.97in

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

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Heights in Kilometres.	Station Date & Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Farnborough 13th 7am.		Eskdalemuir 13th 7am.		S. Farnborough 14th 7.20am		Benson 15th Noon		Benson 16th. 3.33am.		Benson 16th. 4.30am.		Benson 16th 5.30am		Benson 16th 6.32am		Benson 16th 7.30am		S. Farnborough 17th 7.5am	
5		+15	+14													+14	+3				
4		+11	+1													+13	+5	+5	+4		
3		+10	-1											+14	0	+6	+4	+7	+4		
2		+3	-2	+6	-2	+13	0	+13	-4	(15) 10	0	+7	0	+6	+2	+6	+2	+7	+6		
1		+1	0	+13	0	+8	+2	+7	-5	+9	0	+7	0	+6	+2	+6	+2	+7	+5	+16	-7
.5		-1	a	+7	+3	+7	+3	+9	-1	+8	-1	+9	-1	+3	+1	+7	+5	+5	+6	+10	-3
0		-	-	-1	+2	-	-	+4	+4	0	0	+1	+3	+1	+2	0	+5	+1	+4	-	-

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	61	43	b	beq	1·0
	Banff	-	62	49	b	bc c	5·7
	Carnoustie	-	69	44	b	bc c	10·8
	St. Andrews				*	*	
Eng. N.E.	Harrogate	-	65	47	bc c	c.bc.b	9·9
	Skegness	-	64	44	bc	bc.o.c	9·8
Eng. N.W.	Morecambe						
	Blackpool	-	64	53	c	b	7·5
	Southport	-	61	54	b.bc	b.bc	8·0
Midlands.	Buxton	1	61	50	bc	bc	6·4
	Leamington Spa	-	67	49	bc	bc	7·3
	Malvern	-	66	48	b.bc	bc	6·5
	Ross-on-Wye	-	70	45	bav	bc.c	9·7
Wales.	Rhyl	-	61	53	bc	bc.o	10·1
	Colwyn Bay	-	63	50	b	bc	9·6
	Llandudno	-	66	51	b.	bc	9·5
	Aberystwyth	-	63	55	c.b	bc.o	10·5
	Tenby						
England. E.	Cromer						
	Lowestoft						
	Felixstowe	0·3	67	48	bc	bc	10·0
	Walton-on-Naze	-	66	47	bc	bc	11·4
	Southend-on-Sea	-	69	47	bc	bc b.bc	8·0
England, S.E.	Tunbridge Wells	-	66	53	b	b	9·8
	Margate	-	66	53	b bc b	b.bc c	9·8
	Ramsgate	-	65	50	bc	bc	11·8
	Hastings	-	64	47	b.bc	b	10·2
	Bexhill-on-Sea	-	67	?	bc	c.bc	9·3
	Eastbourne	-	62	51	b	b	11·6
	Seaford						
	Brighton	-	66	51	c.bc.b	b	12·7
	Worthing	-	67	48	c.bc.b	b	12·7
	Littlehampton	-	66	?	b	b	10·8
	Bognor	-	67	48	bc	bc	11·0
	Southsea	-	67	50	bc	b	10·2
	Bournemouth	-	67	49	bc	bc.b	12·0
England, S.W.	Weymouth	-	68	52	c.b	b3	11·0
	Torquay	-	69	50	c.bc	bc	10·9
	Paignton						
	Falmouth	-	66	52	bc	bc.c	8·5
	Penzance						
	Newquay	-	63	56	b	b.o	7·5
	Ilfracombe	-	63	56	b	b.bc.c	10·0
	Weston-super-Mare	-	65	52	b	b.bc	12·3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	56	83	5·4	69	33	40	-	0	0 c	c.o.
City (Bunhill Row)	*	*	6·1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	62	90		68	57	-	-	bc	bc.	bcu.o
Camden Sq. (Brit. Rainfall)	-	80	5·8	71	56	52	-	-	-	*
Hampstead (Reservoir)	*	87	6·0	67	53	39	-	bc.o	0	0
Richmond Park	*	*	7·0							
Kew. (See front page.)				Vertical Component of Solar Radiation per square centimetre during Yesterday.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.	Average Rate.	Max. Rate.				
S. Kensington (Roof of M.O.)	-	81	6·4	1510 Joules	262 Milliwatts.	77 Milliwatts.				

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	-	65	48	45	c.b	bc	c	*
Darwen to 9 p.m.								
Manchester ,,								
Birmingham ,,	-	66	50	45	*	c	c	8·0
Oxford to 8 p.m.	*	67	47	39	c.b.o	o.c.o	o.c.bc	*
Teignmouth to 9 ,,	-	69	50	47	bc	bc	bc c	10·9
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	68	50	49	bq.b	bc.c.o	c.bc	*

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

19th & 20th July. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	3 52 / 3 54	11 59 / 11 59	8 6 / 8 4
Greenwich	4 7 / 4 8	12 6 / 12 6	8 6 / 8 5
Wick	3 37 / 3 39	12 18 / 12 18	8 59 / 8 57
Valencia	4 44 / 4 46	12 47 / 12 47	8 50 / 8 49

NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 70° over the Kingdom generally. Rain fell in Ireland and Scotland, the amount being considerable in the west of the latter country. Many hours of bright sunshine were recorded, especially in the south and south-west of England.

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

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§ 1 mm. is approximately ⅓ hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 201

Tuesday 20th July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1004·6	54	S	3	f	998·5	0	57	+2	SSE	1	.	bc	1	2	57	51	c fff	f	0. bc	0·0
	Deerness ...	1000·9	56	SSE	4	om	996·6	*	55	+4	SSE	4	SW	b	3	1.	60	50	d. c bc	bc. c o	or c bc. b	3·8
	Stornoway ...	997·4	57	S	6	opg	991·1	+1	56	-1	S	3	-	c	3	3	59	52	odpg	copg	bc. cpg	0·5
	Castlebay (Barra Isd.)	998·5	57	SW	5	0	998·9	+1	56	-2	WSW	5	-	0	5	8	58	53	op. o	o c. o	op. o	0·6
	Glasgow ...	1008·7	60	SW	4	or	1000·8	-3	51	-8	SW	5	-	orl	*	17	68	51	p. dc op	op. c. op	opg orl	2·2
	Eskdalemuir ...	1005·7	57	SSW	5	om	1004·4	-1	51	-5	SSW	6	-	o	*	22	57	50	ocm	ocm	om o. c	0·0
	Malin Head ...	1002·0	58	W	6	bcq	998·3	+1	55	-4	W	8	-	omqr	7	7	62	52	omp	bcq	omqr	3·2
	Blacksod Point	1006·4	57	WSW	6	bcm	1008·2	+2	53	-4	W	6	W	cmp	5	1	59	50	omp	bcm	omp	*
	Valencia ...	1013·4	66	WSW	4	bc	1015·0	+2	56	-5	WNW	4	NW	c	4	1	63	54	op	cp	o. o. cp	3·3
	Roche's Point	1014·0	61	WSW	4	o	1015·5	*	56	-2	W	3	-	o	3	3	63	52	df. om	o. c. of	o	*
	Birr Castle ...	1010·2	59	W	2	c	1010·6	*	55	-7	SW	3	-	c	*	5	65	52	or c	cp	c	2·6
	Donaghadee ...	1005·0	62	WSW	5	c	1003·3	-3	53	-7	SW	5	SW	cmq	4	5	67	52	cmp	cg cmp	bcmpq	*
	Liverpool (Bidston)	1010·7	63	W	4	o	1010·8	0	56	-7	WSW	3	-	b	3	2	68	51	bc. o	op. o	bc	2·0
	Holyhead ...	999·8	59	SW	6	bcfq	1010·2	0	55	-2	WSW	5	-	b	4	1	60	54	fff f	fff. fc	c. o. bc. b	0·7
	Pembroke (St. Ann's)	1014·5	58	WSW	5	?	1014·8	+1	56	-2	WSW	4	W	bcq	5	5	59	55	fd	ogbm	cgfo	1·0
	Scilly (St. Mary's)	1017·7	59	SW	4	om	1017·7	+1	57	-1	W	4	W	c	5	1	63	55	ome	c om	ompc	2·2
	Falmouth ...	1017·8	61	SW	6	c	1016·4	+1	58	-1	WSW	3	-	b	3	4	67	58	cq	bcq	cr. b	6·7
	Jersey (St. Aubin)	1020·6	69	NW	3	b	1017·9	*	59	-1	W	6	-	o	2	Trace	71	55	c. b	bc. b	b. op	10·2
	Portland Bill ...	1018·7	60	SW	5	bc	1015·5	-2	58	+1	W	4	-	b	3	1	61	55	c o	bc	bc. bon	*
	Dungeness ...	1020·9	61	SW	4	cu	?1015·0	-1	59	0	S	3	S	o	3	-	63	57	o. bc c	o bc	bc o	*
	Dover	1019·7	60	SW	4	bc	1015·2	-1	59	+1	SW	3	-	o	3	-	62	56	o. bc	bc. b bw	bc c a	5·4
	Wick	1000·8	56	S	3	c	996·8	0	54	+1	S	4	S	c	3	-	62	49	gm	cm	bm	9
	Nairn	1000·3	66	WSW	2	bc	998·8	*	56	-1	WSW	4	-	cgq	3	0·2	72	51	c. bcq. a	cpg	gc. c	4·1
	Aberdeen ...	1002·9	59	S	3	r	999·8	-1	56	+2	S	4	-	c	2	6	65	52	op	obr	or. bc	0·7
	Leith	1002·9	63	SW	3	c	1001·6	-2	56	-6	SW	4	SW	c	*	4	69	54	or. c	cp. c	cp. o	0
	Tynemouth ...	1007·7	65	WSW	4	ogmp	1006·3	0	58	-3	SW	2	W	c	2	1	68	56	cmpq	cmop	c	*
	Spurn Head ...	1013·8	63	WSW	5	r	1011·4	-2	60	+2	WSW	5	-	bcq	5	1	73	57	bgm	or	bq. p	6·1
	Yarmouth ...	1016·9	67	WSW	2	o	1013·3	-1	56	-4	SW	3	-	o	3	3	69	56	bc o	o	or. o	?
	Clacton-on-Sea	1018·2	63	SSW	4	o	1014·4	0	58	-1	W	3	SW	o	3	1	66	57	c o	o	o. bc. op	1·4
	Nottingham ...	1013·6	?66	SW	4	r	1011·1	*	59	-2	W	4	W	c	*	5	71	56	cp. o	c or	r. oc	0·8
	Bath	1017·0	67	SW	3	c	1014·4	*	59	-3	W	3	W	o	*	9	70	57	ogq	o c	c. ogr. o	2·3
	Sth Farnborough	1016·0	66	SW	3	b	1014·2	0	59	+1	SW	3	-	c	*	1	69	56	o. c b	bc. o	cp. c	3·6
	London (Kew Obsy.)	1017·9	70	SW	3	bc	1014·3	-1	60	0	SW	3	-	orc	*	1	70	57	o	o. c. bw	d. b. c. r. c	2·5
NORTHERN EUROPE.	Spitsbergen ...	1015·5	41	NW	2	o	1007·7	0	41	-2	SE	6	*	fc	*	*	43	36				
	Vardö	1015·8	46	ESE	1	f	1012·7	-1	43	-5	SE	1	-	b	2	*	50	45				
	Bodö	1012·6	52	ESE	1	f	1011·8	0	52	0	SW	1	SW	c	1	13	52	48				
	Christiansund	1011·0	55	NNE	2	c	1005·0	-3	57	+3	NE	2	-	b	2	-	57	52				
	Skudesnaes ..	1010·6	55	SE	3	o	1004·7	0	54	0	E	3	-	f	2	9	59	45				
	Færder (Christiania Fjord)	1012·3	61	SW	2	b	1011·4	-1	57	0	WSW	4	-	o	2	Trace	61	55				
	The Scaw (Skagen)	1018·9	59	WSW	3	b	1011·7	0	59	+4	S	3	-	m	3	2	61	54				
	Blaavands Huk	1016·4	59	NW	3	o	1012·7	-1	61	+4	SSW	3	-	o	3	1	63	55				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1017·9	61	SSW	4	bc	1014·0	0	63	+2	SSW	5	-	c	2	-	64	61				
	C. Gris Nez ...	1019·9	60	SW	4	c	1015·9	-1	60	0	SW	4	*	o	2	-	64	57				
	La Hêve	1020·8	64	NNW	1	bc	1017·6	*	63	+6	NW	2	*	b	2	-	75	55				
	Ushant	1021·1	58	SW	2	b	1018·3	*	59	+1	SW	3	*	c	3	-	66	55				
	Brest (St. Mathieu)	1021·9	66	SW	1	b	1020·3	+2	60	+1	NW	2	*	c	3	-	73	59				
	Rochefort (Ile d'Aix)	1019·7	73	NW	2	b	1018·0	+2	63	+2	NE	2	*	b	*	-	86	57				
	Biarritz	1018·9	79	E	2	b	1018·3	+3	67	+7	WSW	4	*	c	3	-	81	60				
	Paris	1020·8	70	SSW	1	b	1017·9	0	61	+4	SE	1	W	b	*	-	75	54				
	Belfort	1023·3	66	ENE	2	b	1021·0	*	59	+5	ENE	4	*	bc	*	-	71	48				
	Lyons												*		*							
	Nice	1018·6	72	-	0	b	1019·4	+1	70	-3	-	0	*	b	2	-	82	63				
	Perpignan ...	1018·9	75	-	0	b	1018·7	+1	68	-2	-	0	-	b	*	-	84	52				
	Sanguinaire ...	*	78	NW	2	bc	*	*	75	0	E	2	*	f	3	-	82	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1016·3	68	NW	4	b	1021·7	+3	64	+1	-	0	-	b	1	-	72	61				
	Madrid (8 a.m.)	1012·8	70	SW	1	b	1016·8	+2	75	+3	E	1	-	b	*	-	91	68				
	Lisbon (8 a.m.)	1013·9	84	NW	3	b	1017·0	+3	72	-3	-	0	-	b	2	-	64	68				
	Gibraltar	1017·3	74	E	6	0	1017·6	*	73	-1	E	6	*	c	3	-	78	72				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1017·1	+8	75	+2	N	3	-	b	2	-	81	73				
	Azores (Horta, 8 a.m.)	1025·9	*	SW	4	b	1027·0	0	70	+1	NNE	1	*	c	1	-	84	68				
	Madeira (Funchal)																					

GALES.

Duration and Extreme Force in British Islands.

Malin Head

20th 2 am. to 7 am. SW. 8
Extreme SW. 9 at 4 am.

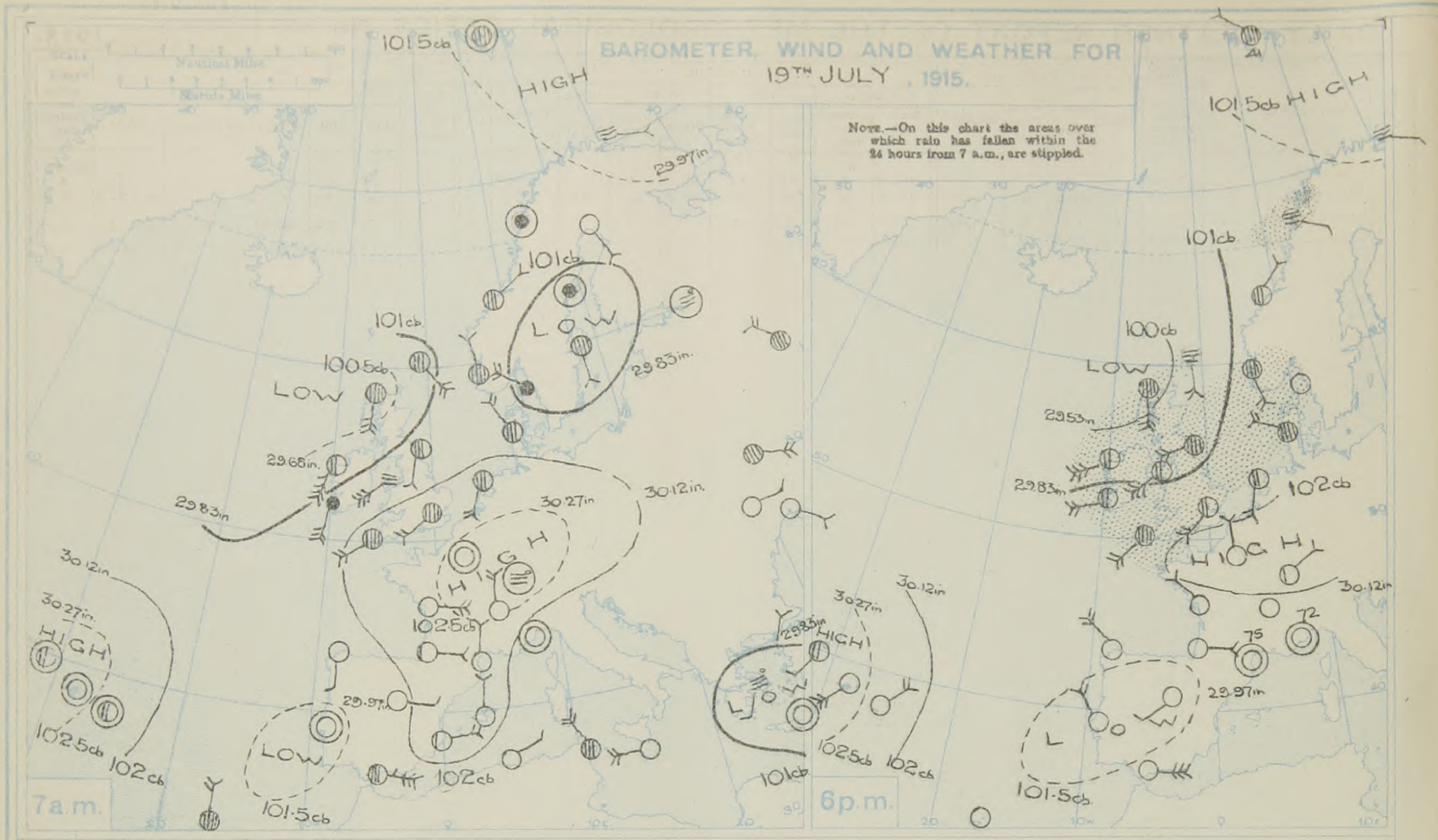
Holyhead

19th 3 pm. Gust 55 W. 21 mps.

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

BAROMETER, WIND AND WEATHER FOR 19TH JULY, 1915.

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.

STORM WARNINGS.

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

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

South Cone hoisted yesterday at 8.50a.m. in Districts 6 to 10.

Western Channel and Bay 11

0a, 0b, 1 — Southerly to South-Westerly winds, light or moderate, fresh or strong at times; changeable, some rain or showers; moderate temperature.

2a, 2b, 3, 4a, 4b, 5 — Wind mainly Westerly, light or moderate, fresh at times; sky variable, some local showers; moderate temperature.

6a, 6b — South-Westerly and Westerly winds, strong to moderate; changeable, some rain; moderate temperature.

7a, 7b, 8a, 8b — Wind from some Westerly point, fresh to light; changeable, some showers; moderate temperature.

9a, 9b — Wind Westerly, decreasing in force; changeable, some rain; rather cool.

10a, 10b — Same as Nos. 7 and 8.

11 — Westerly winds, moderate or light, sea moderate; fair generally.

FURTHER OUTLOOK.

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

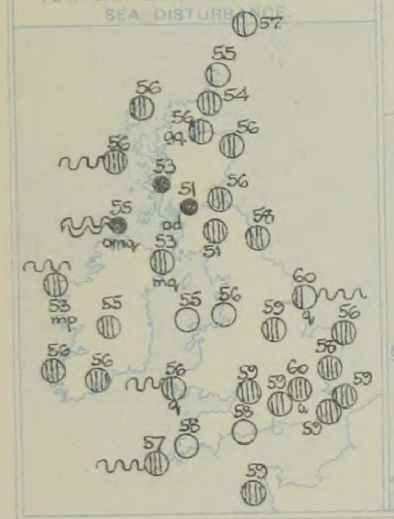
Millibars: 1050, 1040, 1030, 1020, 1010, 1000, 990, 980, 970 — Inches: 31, 30, 29

SYNOPTIC CHART FOR 7 a.m., TUESDAY, 20TH JULY, 1915.

GENERAL INFERENCE.

The wind is likely to become more Westerly over the Kingdom generally, and to decrease in force in the 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 ≈≈.

29·83in
29·68in
29·53in
29·38in
29·97in
30·12in
30·27in
99·5cb
100cb
100·5cb
101cb
101·5cb
102cb
102·5cb
55°
60°
70°
LOW
HIGH
HIGH
Barometer falling
Barometer falling
Barometer falling
Barometer rising
Barometer rising

Scale 1 : 2·10⁷
Nautical Miles 0 1 2 3 4 5 6 7 8 9 10
Statute Miles 0 1 2 3 4 5 6 7 8 9 10 11 12

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Tuesday, 20th July, 1915.

REPORTS FOR YESTERDAY. 19th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1012·0	43	–	0	b	1012·4	0	44	+2	SSE	2	–	b	*	–	52	39
Hernösand	1011·3	61	–	0	c	1009·9	-1	57	-2	–	0	–	r	*	8	63	55
Stockholm	1007·4	59	E	2	r	1007·6	0	59	+4	S	2	–	o	*	13	59	55
Wisby	1005·7	64	S	2	bc	1009·0	+1	63	+2	–	0	–	o	*	1	66	57
Karlstad	1005·2	59	E	4	o	1007·9	+3	55	0	N	2	–	r	*	26	63	52
Petrograd	1010·0	72	–	0	bc	1012·9	+1	68	+4	–	0	–	m	*	–	82	63

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	26	66	49	oc bc c	gr	1·0
	Banff	4	69	51	ap bc o	bqcp o	0·7
	Carnoustie	18	66	52	r c bcp	bgr	1·0
	St. Andrews	10	70	53	*	*	1·2
Eng. N.E.	Harrogate	2	69	52	c bc	c bc	1·9
	Skegness	–	70	53	o	o c o	2·7
Eng. N.W.	Morecambe	5	64	54	od	od	0·0
	Blackpool	10	67	56	ogc o		0·5
	Southport	3	69	56	o c o	or o	1·0
Midlands.	Buxton	1	66	51	bc	bcr	2·5
	Leamington Spa	0·4	68	56	c	car	0·5
	Malvern						
	Ross-on-Wye	1	65	56	ocq bc	orq	0·2
Wales.	Rhyl	2	67	56	bc c	o bc	5·0
	Colwyn Bay	1	68	53	bc	p	3·0
	Llandudno	2	67	57	c	cr	0·8
	Aberystwyth	6	63	58	o c o	or +	0·0
	Tenby	15	62	59	+	r	0·0
England. E.	Cromer	–	70	53	c o	o c	2·2
	Lowestoft	–	68	53	bc c o	o	1·6
	Felixstowe	–	66	54	bc	bc	0·9
	Walton-on-Naze	–	64	53	c bc	c bc c	1·9
	Southend-on-Sea	–	68	53	o c bc	c o c bc	2·5
England. S.E.	Tunbridge Wells	–	66	51	o	b bc	2·6
	Margate	–	69	53	c	bc b	3·2
	Ramsgate	–	64	50	o	o c bc	2·7
	Hastings	–	63	53	o	bc c	1·1
	Bexhill-on-Sea	–	65	57	o	o	0·0
	Eastbourne	–	64	57	o	o bc ov	2·4
	Seaford	–	64	57	c	c	1·1
	Brighton	–	64	56	o	o c	0·8
	Worthing	–	65	54	o bc	bc	0·9
	Littlehampton	–	64	58	o	bc	0·1
	Bognor	–	63	55	o	o	1·3
	Southsea	–	67	57	o b	c	2·0
	Bournemouth	–	67	56	c bc	c b	4·0
England. S.W.	Weymouth	–	66	57	3·0 c bc	bc 3	2·4
	Torquay	–	67	57	o c bc	bc c o	3·8
	Paignton						
	Falmouth	1	67	57	cq	bcq	6·6
	Penzance	1	66	59	o m c	bc o	7
	Newquay	1	68	57	o	bc o	1·2
	Ilfracombe	7	64	55	o m r	r o m	0·0
	Weston-super-Mare	–	68	56	o bc	c	0·1

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	77	79	3·6	73	56	52	1	o	o c	bc r bc
City (Bunhill Row)	*	*	2·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	65	2·5	68	56	53	2	o	o	bc r bc
Camden Sq. (Brit. Rainfall)	69	66	1·7	71	56	54	2	o c	c	*
Hampstead (Reservoir)	*	75	1·4	66	52	43		c o	o c	bc
Richmond Park	*	*	1·9							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	66	62	1·5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
940 Joules	163 Milliwatts.	52 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	8	67	53	52	bc ou	ou b	c ou	0·2
Manchester ,,	2	70	56	*	o	o	or o c	0·4
Birmingham ,,	9	68	54	51	*	c	r o c	1·4
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	–	69	57	57	bc	c bc	b bc	4·6
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	68	52	49	bc o	o	c bc	*

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

20th/21st July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	2 54 / 3 06	11 29 / 11 30	8 4 / 8 2
Greenwich	4 18 / 4 9	12 6 / 12 6	8 6 / 8 3
Wick	3 39 / 3 41	12 18 / 12 18	8 57 / 8 55
Valencia	4 46 / 4 47	12 47 / 12 47	8 48 / 8 48

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 70° at some English stations, and also at St. Andrews. Rain fell very generally, – heavily at Eskdalemuir, but in small quantities elsewhere. The records of bright sunshine were slight.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 202 — Wednesday, 21st July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	998·8	66	SSE	3	c	999·3	0	53	−4	NNE	3	–	0	2	10	58	51	bc	bc	ogm c	
	Deerness ...						1001·3		54	−1	W	3	–	opd	1	–	57	53			bc c o	8·0
	Stornoway ...	1000·5	57	NW	4	bc	1003·9	+1	55	−1	WNW	5	–	og	4	1	63	51	c	bc	bc odpg	5·5
	Castlebay (Barra Isd.)	1003·6	55	W	5	op	1001·2	+1	56	0	W	4	W	o	4	1	58	53	o.c. oc	p.op	opm.o	0·7
	Glasgow ...	1003·2	53	WSW	5	opg	1008·8	+2	51	0	WSW	4	–	og	4	2	55	50	opg	opg	op	0·0
	Eskdalemuir ...	1005·6	52	WSW	6	o	1010·2	+1	49	−2	WSW	5	–	o	3	5	56	48	o.oc.o	oc ou	om.ou	9·3
	Malin Head ...	1008·0	54	WNW	8	omgp	1009·9	0	54	−1	NW	5	W	bcg	6	2	55	50	omg	omgp	cg	0·1
	Blacksod Point	1014·6	57	W	5	bc	1011·7	−3	55	+2	S	3	SW	ogc	3	1	62	51	bcp	bc	bc.cg	
	Valencia ...	1018·9	68	W	4	c	1015·7	−2	58	+2	SW	2	SW	o	2	0·1	62	54	c	bov	c.o.c op	6·5
	Roche's Point	1017·7	62	WNW	3	a	1017·7		57	+1	SW	2	–	o	2	–	63	53	c.o	c	c.o	
	Birr Castle ...	1015·2	58	W	3	c	1014·6		54	−1	WSW	1	–	r		0·4	62	51	cp	c	c.od	6·2
	Donaghadee ...	1008·7	55	W	7	omg	1011·2	0	56	+3	W	4	W	omg	3	1	59	51	omgp	omgp	bc omg	
	Liverpool (Bidston)	1011·4	58	WSW	5	o	1014·1	+1·2	55	−1	W	4	W	o	4	–	60	53	bc	og	o	3·5
	Holyhead ...	1011·7	58	W	5	c	1014·0	0	56	+1	WSW	4	W	bc	3	–	62	54	b.bc.c.o	o.c.bc c	bc.b.bc	4·5
	Pembroke (St. Ann's)	1016·6	56	WNW	4	b	1017·6	0	56	b	W	3	W	bc	3	–	59	54	bcg	bcg	bcg	10·7
	Scilly (St. Mary's)	1019·7	59	WNW	4	c	1019·6	0	56	−1	W	3	W	c	4	–	62	54	c	c	bc c	5·2
	Falmouth ...	1018·7	60	W	4	bc	1019·2	+2	57	−1	WSW	2	–	c	3	–	64	51	bc	c.bcg	bc.c	9·7
	Jersey (St. Aubin)	1019·9	62	WNW	3	o	1020·3		58	−1	WNW	3	W	b	2	–	64	57	c o bc	bc.c o	c o b	5·4
	Portland Bill ...	1017·3	60	W	4	bc	1018·4	+1	57	−1	W	4	W	bc	3	–	62	56	bc	bc	c.bc	
	Dungeness ...	1014·3	61	SW	5	c	1017·2	+2	61	+2	WSW	3	W	b	3	–	64	54	o bc	bc	bc.c.ob	
	Dover	1015·5	61	WSW	4	bc	1017·5	0	56	−3	W	3	–	b	2	–	?	52	o c.bc	b bc	bc b	10·0
	Wick	996·4	59	WNW	3	o	1002·1	+3	55	+1	W	3	NW	o	2	1	59	50	omp	omp	omp	
	Nairn	998·0	59	WSW	5	cg	1003·5		56	0	W	3	–	ogc	3	1	65	52	g gcp	gcg	cg d	0·9
	Aberdeen ...	997·9	61	WSW	3	o	1004·2	+2	59	+2	SW	2	–	c	2	4	63	48	c.or.o	op o	o c	2·9
	Leith	1001·9	58	WSW	4	o	1007·1	+2	54	−2	WSW	4	W	o		–	62	52	c.op cg	cg c.o	o c	
	Tynemouth ...	1004·9	59	WNW	4	cg	1008·9	+2	55	−3	WNW	3	W	bcm	3	–	63	52	cmp	cmg	bcg	
	Spurn Head ...	1010·3	56	WSW	5	bc	1012·5	+1	56	−4	W	6	–	bcg	5	–	66	53	bcg	bcg	bcg	6·3
	Yarmouth ...	1012·7	64	WSW	2	bc	1013·2	+1	56	0	W	3	–	b	3	–	70	63	c.bc	bc	bc.b	?
	Clacton-on-Sea	1013·7	67	W	4	bc	1016·3	+2	59	+1	W	3	NW	bc	2	0·3	69	54	ogpc	c.bc	bc.c bc	8·9
	Nottingham ...	1012·4	59	W	4	c	1015·0		58	−1	W	2	W	c		–	66	51	c.bc	bc c	c	6·8
	Bath	1015·9	61	W	4	bc	1017·4		58	−1	W	3	W	b		–	66	53	o c.bc	bc c	bc.c o b	10·1
	Sth Farnborough	1014·7	65	WNW	3	b	1017·8	+2	57	−2	W	3	W	b		–	69	52	c.bc	bc	b bc	10·1
	London (Kew Obsy.)	1014·7	66	WSW	3	c	1017·1	+2	58	−2	WSW	3	W	bc	2	–	68	55	ou c bc	bc c	c.bc	11·8
NORTHERN EUROPE.	Spitsbergen ...	1007·4	43	W	2	o	1009·5	+1	39	−2	S	7		o			45	37				
	Vardö	1011·5	59	N	2	c	1013·2	0	48	+5	NNW	1		o	3		61	45				
	Bodö	1010·0	55	–	0	b	1007·4	−3	64	+12	E	1	–	b	1	?	?64	50				
	Christiansund	1005·1	64	NE	2	c	1009·8	+2	57	0	SW	2	–	c	2	Trace	68	55				
	Skudesnaes ..	1004·6	55	SE	2	o	1002·9	0	55	+1	ESE	6	–	o	4	3	59	52				
	Færder (X'lania Fjord)	1009·5	59	SSW	4	m	1007·7	0	52	−5	SSW	2	–	o	2	7	59	57				
	The Scaw (Skagen)	1010·0	59	S	2	r	1008·3	0	57	−2	SW	1	–	bc	1	2·0	63	55				
	Blaavands Huk	1011·1	57	SW	3	o	1009·3	0	59	−2	SW	2	–	o	2	3	64	55				
	Haparanda ...	1011·1	63	SW	2	o	1010·4	0	64	−2	SW	2	W	bc		3	66	57				
	Hernösand ...	1012·0	59	SW	2	b	1012·0	0	59	−2	SE	2	–	c		–	59	55				
	Stockholm ...	1012·6	66	SSW	2	bc	1011·4	0	63	+2	SE	2	–	o		–	68	57				
	Wisby	1014·4	64	SW	2	b	1011·7	−3	64	+3	S	2	–	o		–	68	55				
	Karlstad	1011·8	61	SE	2	o	1008·3	−1	59	+2	S	2	–	r		12	64	57				
	Petrograd (5 a.m. G.M.T.)																					
FRANCE, &c.	The Helder ...	1012·4	61	SW	3	c	1013·5	+2	59	−4	W	4	W	bc	3	3	63	57				
	C. Gris Nez ...	1015·4	59	SW	6	c	1017·3	+2	59	−1	W	4		b	4	1	63	55				
	La Hève	1018·6	61	NW	4	c	1019·0		59	−4	NW	4		bc	3	–	73	54				
	Ushant †	1022·1	59	NW	3	o	1021·6		59	0	NW	3		c	3	–	68	54				
	Brest (St. Mathieu)	1022·7	62	WNW	3	o	1022·4	0	59	−1	WNW	2		c	2	–	68	57				
	Rochefort (Ile d'Aix)	1020·0	65	NW	5	bc	1021·5	+2	62	−1	NNE	3		bc		–	73	57				
	Biarritz																					
	Paris	1017·5	68	NW	3	o	1019·9	+1	61	0	SW	2	–	b		–	79	54				
	Belfort	1017·1	72	W	5	c	1019·5		62	+3	W	4		o		?	?	?				
	Lyons	1016·7	77	ESE	1	c	1019·9		65	−14	NNW	1		o		–	83	61				
	Nice	1016·8	71	–	0	b	1016·2	0	70	0	–	0		b	2	–	84	61				
	Perpignan ...	1018·0	73	E	1	bc	1018·3	0	75	+7	WNW	2	–	b		–	79	64				
	Sanguinaire ...	*	85	NW	2	b	1011·4		75	+5	S	2		m	2	–	84	64				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1023·4	66	NNE	5	b	1023·3	0	61	−3	NNE	1	–	b	2	–	68	57				
	Madrid (8 a.m.)																					
	Lisbon (9 a.m.)	1016·8	84	NNW	5	b	1016·8	+2	75	+3	N	1	–	b	5	–	90	72				
	Gibraltar	1017·6	73	E	4	b	1017·6		71	−2	E	4		m	2	–	81	69				
	Rome																					
	Malta (8 a.m.) ...	*	*	*	*	*	1017·1	+1	77	+2	ENE	1	–	b	1	–	81	70				
	Azores (Horta, 8 a.m.)	1027·3		NE	4	b	1027·8	+1	72	+2	–	0		c	1	–	82	70				
	Madeira (Funchal)	1015·5	73	N	3	bc	1016·4	+1	68	0	E	2	–	b	2	–	75	66				

GALES.

Duration and Extreme Force in British Islands.

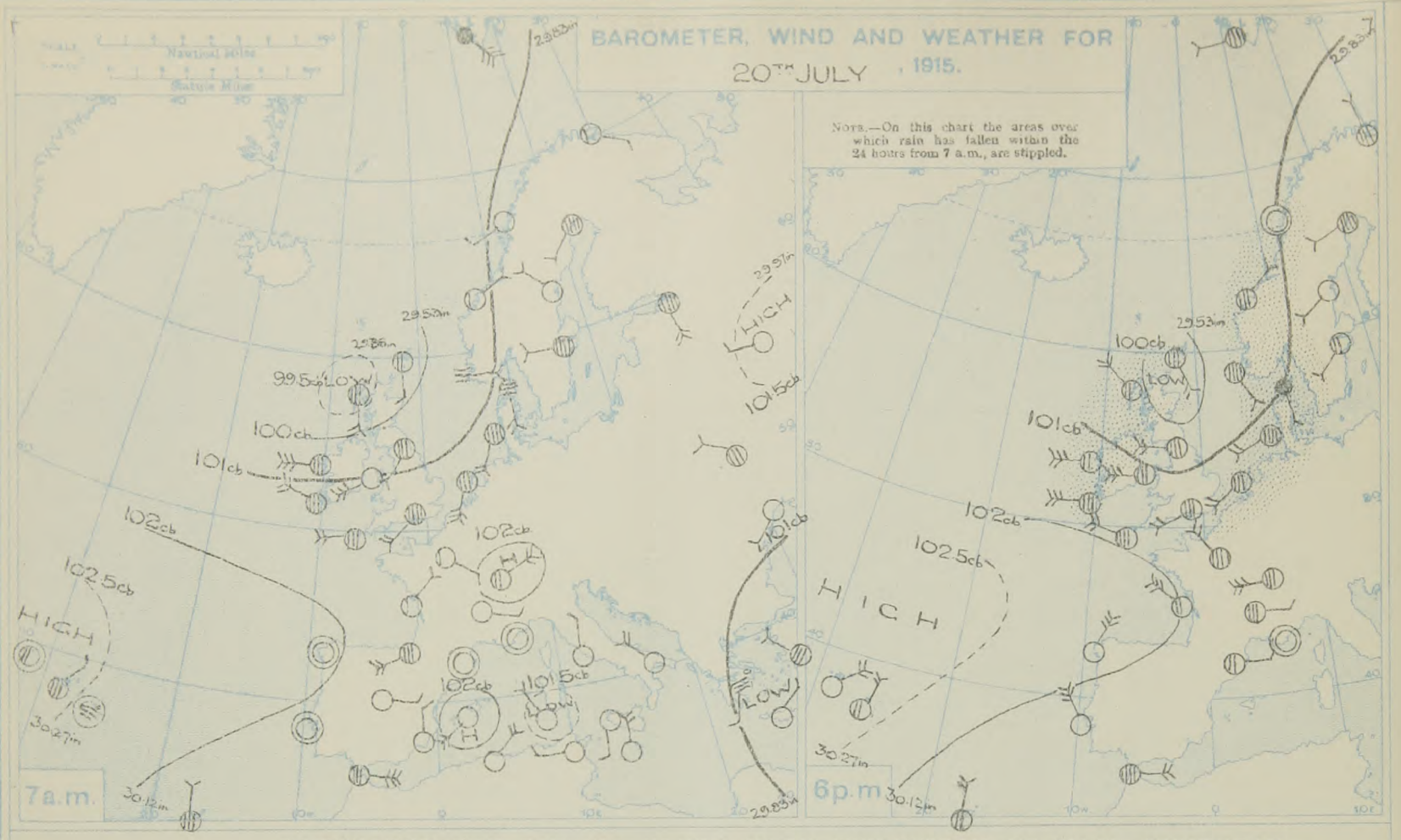
Malin Head

7 am 20th – 2 am 21st
WNW 8.

South Farnborough.
Pilot Balloon Ascent at about 7 am
Wind at 500 metres WNW 13 m.p.h.
Wind at 2000 metres WNW 22 m.p.h.

* 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 20TH JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 {a b} 1 — Moderate Westerly winds, backing later and freshening; fair at first, then some rain; little change of temperature.

2 {a b} — Moderate or fresh Westerly winds, backing South-Westerly by to-morrow; fair to-day, less settled to-morrow; little change of temperature.

3 4 {a b} 5 — Moderate or light Westerly winds; fine to-day, less settled to-morrow; temperature unchanged.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} — Moderate Westerly winds, backing to South-West or South and freshening; fair at first, some rain later; little change of temperature.

8 {a b} — Light Westerly winds, backing to South-West or South and freshening; fair at first, some rain later; little change of temperature.

9 {a b} — Increasing South-Westerly or Southerly winds; dull, some rain; little change of temperature.

10 {a b} 11 — Light Westerly breezes over mouth of Channel, with a moderate sea; fair weather; wind backing, weather less settled later Northerly breezes; fair weather on Bay.

FURTHER OUTLOOK.

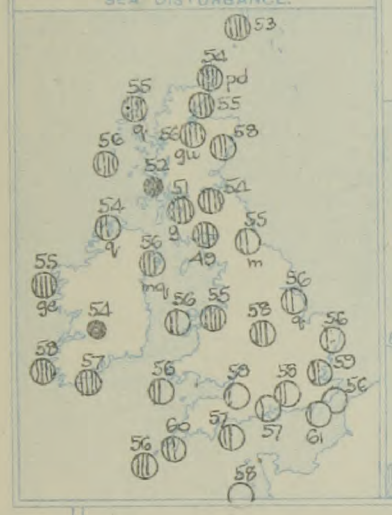
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m. WEDNESDAY, 21ST JULY, 1915.

GENERAL INFERENCE.

A new depression, now causing a fall of the barometer in Ireland, will affect our western and northern districts during the day. It is unlikely to influence conditions in the south-east before to-morrow.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

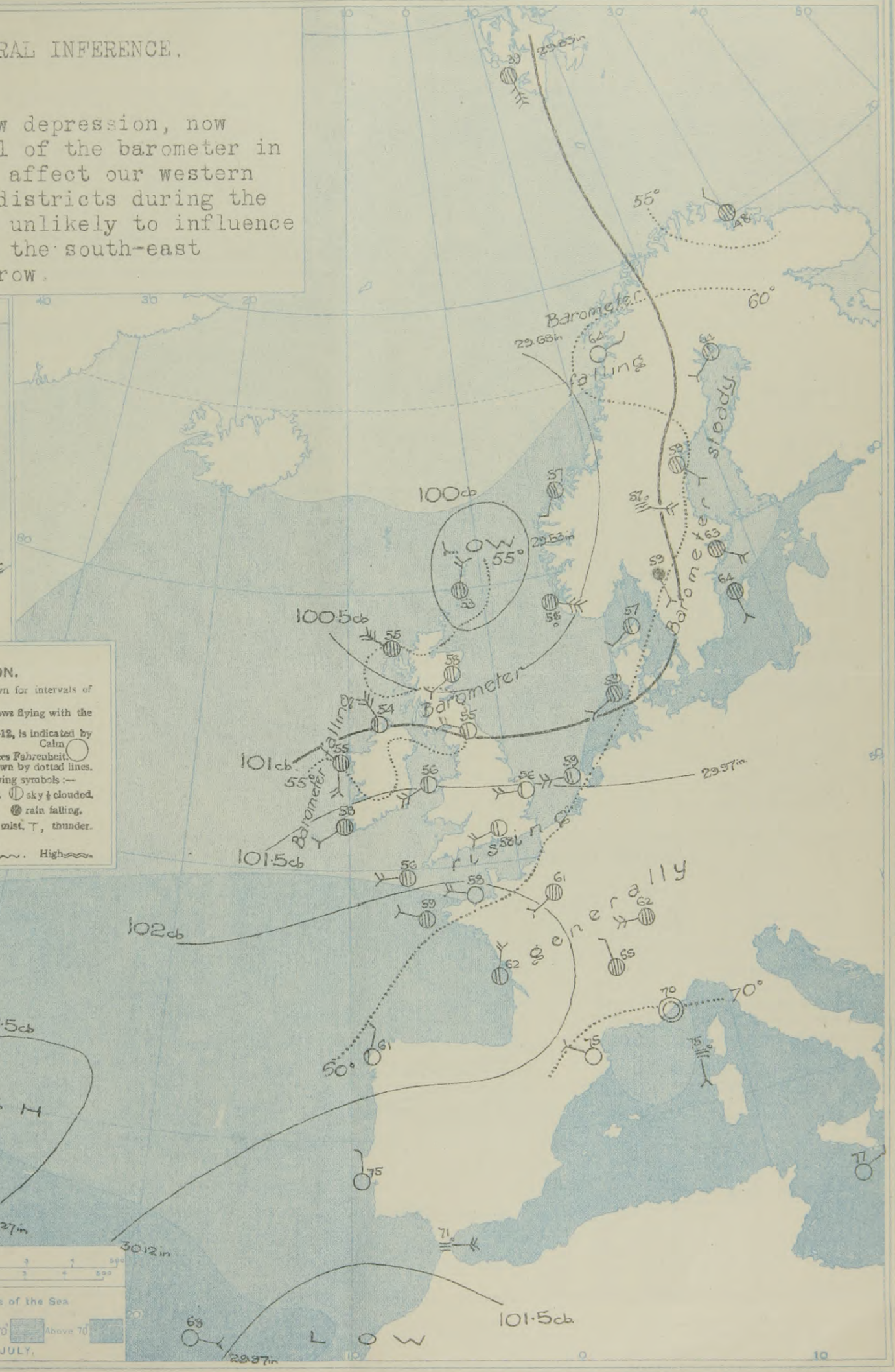
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shewn 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 ≈≈.



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

Normal Temperature of the Sea
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JULY.

DAILY WEATHER REPORT. 21st July 1915.

REPORTS FOR YESTERDAY.

20th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1011·1	72	S	2	0	1011·8	0	62	−10	SW	2	–	0	*	1	81	63
Hernösand	1011·5	63	WNW	2	b	1012·7	0	61	+4	NW	2	–	b	*	1	64	50
Stockholm	1010·4	64	S	2	b	1012·2	+2	61	+2	W	2	–	0	*	Trace	70	54
Wisby	1013·4	63	W	2	b	1014·7	+2	61	−2	W	2	–	c	*	c	66	57
Karlstad	1011·4	54	NNW	2	0	1013·1	0	57	+2	SW	2	–	bc	*	1	61	54
Petrograd	1013·1	75	E	3	b	1012·4	0	72	+4	SSE	4	S	0	*	–	79	66
Lyons	1021·1	70	NNW	2	b	1019·8	–	79	+14	–	0	*	b	*	–	73	50
Rome	1016·8	70	–	0	b	1018·9	+2	68	–	N	1	–	b	*	–	82	63
Funchal	1014·7	72	–	0	0	1015·1	0	68	−2	N	2	–	c	2	–	73	68

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	14	58	50	or	qr	0·1
	Banff	8	65	48	bc p g	bc p bc	3·5
	Carnoustie	2	62	51	p bc o g	p. o. c	2·6
	St. Andrews	8	67	52	*	*	5·4
Eng. N.E.	Harrogate	0·4	60	53	c p. bc	bc c p	4·6
	Skegness	3	67	56	bc	bc	9·1
Eng. N.W.	Morecambe	1	60	55	bc p	bc o	1·5
	Blackpool	—	60	55	o. c	oc	2·6
	Southport	1	61	56	o. c. o	c	4·0
Midlands.	Buxton	6	60	51	bc	bc r	4·0
	Leamington Spa	3	66	55	bc	bc. c	8·0
	Malvern	2	65	55	bc	c	6·7
	Ross-on-Wye	5	66	55	o·bc	bc c o	4·8
Wales.	Rhyl	?	62	53	bc cp	c bc. o	5·6
	Colwyn Bay	—	62	53	c bc	oug	5·4
	Llandudno	-	61	54	gc	ag	4·0
	Aberystwyth	2	60	55	r. o. c	c. b. o	4·2
	Tenby	1	62	54		-	1·0
England. E.	Cromer	7	68	55	o. c. bc. c	c. bc. co	6·8
	Lowestoft	6	70	58	o. c. bc	bc. c bc	7·9
	Felixstowe	1	69	57	bc	bc	8·8
	Walton-on-Naze	2	69	56	cp. bc	bc	8·3
	Southend-on-Sea	-	71	56	c. bc	bc	7·5
England. S.E.	Tunbridge Wells	-	69	55	op. bc	bc. c. bc	6·8
	Margate	1	70	58	c. bc. b	bc. b. c	5·4
	Ramsgate	5	71	55	c	c	5·4
	Hastings	–	65	57	o bc b	b bc	7·0
	Bexhill-on-Sea	–	67	68	bc. b	bc	5·7
	Eastbourne	—	64	58	o. b	b z	8·4
	Seaford	Trace	63	58	bc	bc	8·1
	Brighton	-	65	59	o. c. bc	bc	7·2
	Worthing	–	66	58	c	bc	9·2
	Littlehampton	Trace	66	61	bc	b	7·1
	Bognor	0·1	66	58	b	b	9·1
	Southsea	-	67	57	b	bc	8·0
	Bournemouth	2	68	56	bc	bc	11·0
England. S.W.	Weymouth	2	68	56	c. bc	c cz	9·0
	Torquay	1	67	56	o c bc	bc c	8·6
	Paignton						
	Falmouth	4	64	53	bc	c bc q	8·7
	Penzance	3	60	54	c. bc	bc	7·0
	Newquay	4	61	56	cp. b	bc	6·0
	Ilfracombe	9	61	57	c. bc	bc	7·0
	Weston-super-Mare	4	63	57	bc. b	b. bc	8·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	50	59	10·6	71	53	49	.	bc. c	bc. c	o c
City (Bunhill Row)	*	*	11·3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	52	63	11·0	70	55	51	-	bc	bc	bc
Camden Sq. (Brit. Rainfall)	49	58	9·8	71	54	52	.	c. bc	bc	*
Hampstead (Reservoir)	*	63	9·2	63	51	39	-	bc	bc	bc
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	45	56	11·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
? 2095 Joules	? 36·3 Milliwatts.	94 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	0·3	63	53	50	bq. c	cq p	cq	*
Darwen to 9 p.m.	2	60	52	49	o u. pc	bc oc	o. u p	1·4
Manchester ,,	6	61	54	*	c. op. c	c. oc	r. o. c. o	2·5
Birmingham ,,	-	63	54	50	*	c	c	5·4
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	3	66	56	54	bc	bc cp	bc	9·4
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	1	69	56	52	bc. c. o	bc. c	bc	*

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

21st & 22nd July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3 56 / 3 58	11 59 / 11 59	8 2 / 8 0
Greenwich	4 9 / 4 10	12 6 / 12 6	8 3 / 8 2
Wick	3 41 / 3 43	12 18 / 12 18	8 55 / 8 53
Valencia	4 47 / 4 48	12 47 / 12 47	8 48 / 8 46

NOTES ON YESTERDAY'S WEATHER.

Unsettled weather prevailed in the North-West. Over 10 hours of bright sunshine was experienced in the south. Temperature touched 70° in the south-east 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.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 203 { Thursday 22nd July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	999·8	53	SW	4	cm	999·6	-1	54	+1	SSE	2	-	0	2	4	61	51	c	bc cm	cm	
	Deerness ...	1002·0	53	WSW	5	0	996·6	*	53	-1	SSE	3	-	3	1	1	56	50	10 p d	0 p 0	0	1·1
	Stornoway ...	1003·2	56	WSW	4	8 q	995·0	-1	55	0	S	3	-	0	3	6	57	52	c 0 d p q	0 c 0 q	c 0 d p	0·5
	Castlebay (Barra Isd.)	1002·3	54	SE	3	r	995·8	-1	56	-1	SW	4	-	0	4	4	56	52	0 p	0 c	n d p m o	0·6
	Glasgow ...	1006·6	55	SSW	3	0 p m	992·2	-2	55	+4	SW	2	-	0	*	5	59	51	0 d p o c	c m p	m p m	0·7
	Eskdalemuir ...	1008·0	53	SSW	5	8 m	1000·0	-1	55	+6	SSW	3	-	0	*	12	59	49	0 c	c 0 m	0 m	2·0
	Malin Head ...	1002·7	60	SW	4	c	998·3	-2	54	0	SW	8	SW	c m	3	2	60	53	m p	m p	m d	0·5
	Blacksod Point	1004·7	57	SSW	3	c m	996·5	-5	56	+1	SSW	5	SW	m p	5	4	59	52	m p	f c	m 0 c	*
	Valencia ...	1008·2	59	WSW	4	m	1001·4	-3	58	0	SW	3	W	p	3	2	61	56	m m	8 m	9	0·0
	Roche's Point	1011·1	57	SSW	4	r	1004·2	*	57	0	SW	3	-	0	4	4	61	54	0	0 d	2 f 0	*
	Birr Castle ...	1007·1	59	SW	1	0	1000·7	*	57	+3	SW	1	-	0	*	1	63	54	c 0 p	c p 0	0	0·4
	Donaghadee ...	1006·2	57	SSW	3	8 m p	999·5	-3	56	0	SW	3	SW	c g m	2	0·4	60	54	c g m	c g m p	c g m p c	*
	Liverpool (Bidston)	1011·0	60	SW	3	0	1002·6	-3	59	+4	S	1	S	0 p	2	5	62	54	c 0	0	0 c	0·3
	Holyhead ...	1010·4	58	SW	6	c g m	1002·0	-2	56	0	SW	4	-	c f	3	5	59	55	0 p d 8	c g m	0 r f c	0·7
	Pembroke (St. Ann's)	1013·6	57	SW	6	c	1005·2	-1	56	0	WSW	3	SW	c g	4	2	60	56	8 c	c g	c g p	2·4
	Scilly (St. Mary's)	1016·1	59	SW	4	c m	1006·6	-3	59	+3	SW	4	-	f d	6	1	62	56	c	c m	c m f e r	1·9
	Falmouth ...	1016·6	58	SSW	3	0	1006·8	-4	59	+2	SW	6	-	r g	5	6	62	56	c g	c r 0	0 f r g	1·1
	Jersey (St. Aubin)	1019·3	62	W	4	c	1014·0	*	59	+1	SSW	3	-	0 g	3	-	64	58	8 8 c	8 c c	0 g	12·2
	Portland Bill ...	1017·0	58	WSW	4	c	1006·5	-3	57	0	SW	5	-	c	4	1	59	55	c	c	c	*
	Dungeness ...	1016·5	60	SW	4	c	1012·4	-1	59	-2	SW	5	-	r	5	-	65	57	8 8 c c	c 8 c c	c 0	*
	Dover	1017·2	59	SW	5	c	1011·9	-2	58	+2	SW	5	SW	0	6	-	64	56	8	8 c c	c 8 c 0	7·9
	Wick	1002·9	58	W	3	0	996·9	-3	53	-2	S	3	-	0	2	1	63	50	o m p g	o m g	0 g p	*
	Nairn	1003·7	59	W	2	c	996·4	*	58	+2	-	0	-	8 c	0	2	64	51	c g 8 g	c g	n d. o p	4·2
	Aberdeen ...	1004·6	61	W	1	0	998·2	-1	58	0	S	2	S	c	2	2	65	54	c o p	c 0	8 c o r c	2·8
	Leith	1006·1	60	SW	3	0	998·9	-2	60	+6	W	1	-	0	*	0·3	63	54	0 c	c 0	0 p	*
	Tynemouth ...	1009·2	58	SW	2	o m p	1001·9	-4	58	+3	S	2	-	o g m	3	-	65	55	8 c g	o m p	o g m	*
	Spurn Head ...	1012·7	61	WSW	4	c	1007·6	-4	56	0	SW	6	-	c u	5	2	65	54	c g	c	0	6·2
	Yarmouth ...	1014·3	64	W	1	0	1010·1	-1	58	+2	SSW	1	-	0	3	1	67	56	8 c	8 c c	o p	9·8
	Clacton-on-Sea	1014·6	63	SSW	5	8 c	1010·9	-2	60	+1	SSW	5	SW	c	4	0·4	69	57	8 c c	c 8 c	8 c c o p	10·4
	Nottingham ...	1012·6	62	WSW	2	0	1005·2	*	59	+1	SW	3	SW	0	*	4	66	55	8 c 0	0 c	o p	7·4
	Bath	1015·2	61	W	1	0	1007·9	*	61	+3	SW	4	SW	0	*	-	67	58	8 8 c c 0	8 c c 0	o p	5·6
	Sth Farnborough	1015·3	63	SW	4	0	1009·6	-3	59	+2	SSW	4	-	0	*	-	69	56	8 c 8 c	0 .	p 0	6·9
	London (Kew Obsy.)	1015·2	64	WSW	3	o p	1010·2	-3	60	+2	SSW	3	-	o p o	*	-	67	57	8 c c	c o c o u o p	o p 0 o p	7·5
NORTHERN EUROPE.	Spitsbergen ...	1014·3	41	WNW	3	0	1017·2	0	34	-5	NNW	6	*	0	*	*	41	32				
	Vardö	1012·2	46	N	3	f	1013·2	0	50	+2	N	1	-	0	3	*	50	46				
	Bodö	1006·6	68	-	0	8	1004·6	0	66	+2	SSE	4	-	8	2	-	68	61				
	Christiansund	1001·7	63	NE	2	c	1004·3	0	57	0	-	0	-	8	2	-	63	55				
	Skudesnaes ..	1005·3	55	SE	1	c	1005·8	0	57	+2	SE	2	.	c	3	4	59	52				
	Færder (X'iania Fjord)	1007·1	59	SSW	4	0	1007·4	+1	59	+7	SW	6	-	8	3	-	61	52				
	The Scaw (Skagen)	1008·4	57	SW	1	0	1009·5	+1	57	0	SW	2	-	c	2	4	63	52				
	Blaavands Huk	1011·8	57	W	3	0	1011·3	0	61	+2	SW	2	W	c	2	Trace	59	55				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1014·6	61	SSW	3	8	1011·7	0	59	0	SW	3	-	0	2	1	63	59				
	C. Gris Nez ...	1016·2	59	W	4	0	1013·0	-2	60	+1	SW	5	*	0	4	-	63	55				
	La Hève	1018·0	61	WNW	3	c	1015·1	*	59	0	SW	4	*	0	4	-	68	50				
	Ushant	1018·3	59	WSW	4	0	1011·8	*	60	+1	SW	5	*	0	3	-	68	55				
	Brest (St. Mathieu)	1020·4	64	SW	3	8	1013·0	-3	59	0	SSW	4	*	0	3	1	68	57				
	Rochefort (Ile d'Aix)	1020·4	64	NW	4	c	1018·6	0	61	-1	E	2	*	c	*	-	70	57				
	Biarritz	1020·8	67	NE	2	0	1019·4	-2	64		ESE	2	*	8	*	-	70	59				
	Paris	1018·0	66	W	1	8 c	1017·2	0	59	-2	SSE	2	W	8	*	-	73	50				
	Belfort	1018·6	66	W	4	c	1019·7	*	60	-2	-	0	*	m	*	-	74	51				
	Lyons	1017·6	74	NNE	1	8 c	1018·6	*	64	-1	N	1	*	8	*	-	79	59				
	Nice	1015·8	78	-	0	c	1017·0	+2	70	0	S	1	*	c	2	-	79	63				
	Perpignan ...	1016·5	79	WNW	3	c	1017·3	+1	72	-3	W	1	SW	0	*	-	91	64				
	Sanguinaire ...	*	80	W	1	8 c	*	*	74	-1	E	2	*	8	2	-	82	66				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·6	66	NNE	5	8	1019·4	0	57	-4	SSE	1	-	m	3	-	68	54				
	Madrid (8 a.m.)	1011·8	91	WNW	3	8	1016·0	+1	72	0	-	0	-	8	*	-	95	64				
	Lisbon (9 a.m.)	1016·3	82	NNW	5	8	1017·1	0	68	-7	N	5	-	8	2	-	88	66				
	Gibraltar	1016·2	76	E	3	8	1015·6	*	71	0	-	0	*	m	1	-	84	70				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*																
	Azores (Horta, 8 a.m.)	1027·5	*	NE	4	c	1027·0	0	71	-1	NNE	4	*	c	2	1	81	70				
	Madeira (Funchal)	1015·8	75	E	2	8	1017·2	0	68	0	E	2	-	8	2	-	78	68				

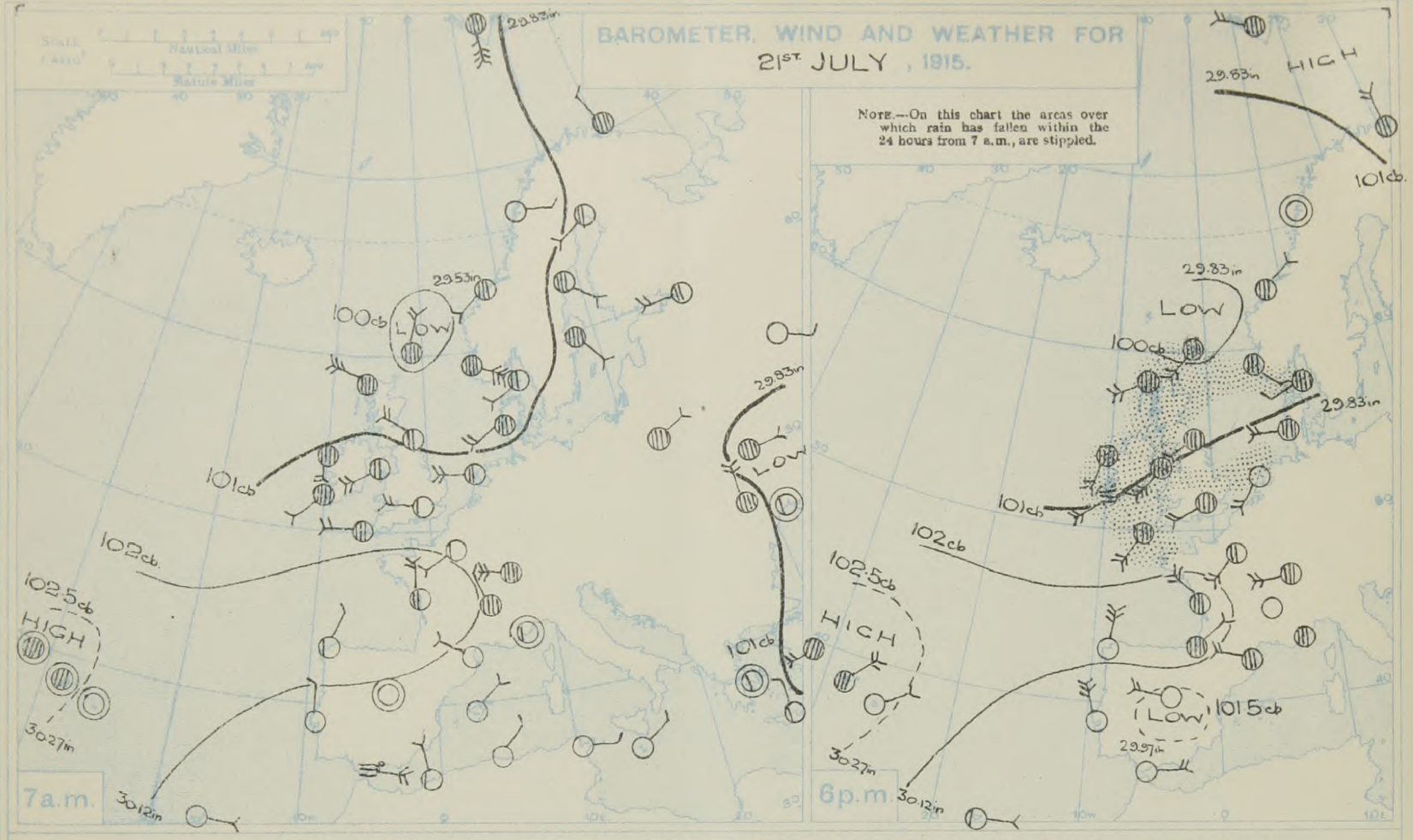
RAINFALL.

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.

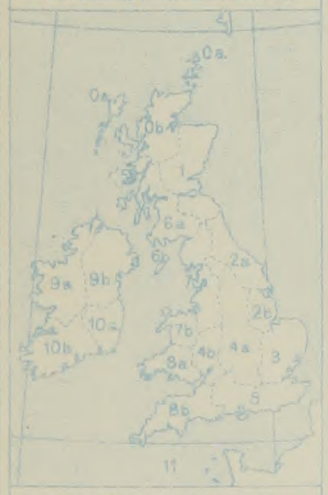
BAROMETER, WIND AND WEATHER FOR 21ST JULY, 1915.



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.

FORECAST DISTRICTS.



0 {a b} 1 — Southerly and South-Westerly, light or moderate, fresh locally; much cloud, some rain; moderate temperature.

2 {a b} 3 — Wind mainly South-Westerly, veering later;

4 {a b} 5 — moderate to fine, much cloud, some rain; rather cool.

6 {a b} — Same as Nos. 0 and 1.

7 {a b} 8 {a b} — South-Westerly to Westerly winds, moderate to fresh or strong; much cloud, some rain, mist or fog locally on coast; cool.

9 {a b} 10 {a b} — South-Westerly to Westerly winds, light to fresh; changeable, some rain; rather cool.

11 — South-Westerly to Westerly winds, moderate to strong; sea rather rough; some showers and mist.

STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

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

W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 22ND JULY, 1915.

GENERAL INFERENCE.

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

EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~. High ≈.

HIGH
29.97in
101.5cb
29.83in
101cb
29.68in
60°
Barometer steady
29.53in
55°
LOW
99.5cb
Barometer
falling
100cb
100.5cb
101cb
101.5cb
generally
29.97in
29.83in
60°
Barometer rising slightly
70°
102cb
102.5cb
HIGH
30.27in
30.12in

Scale 1 : 21 000 000
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea
Below 50° 50°-60° 60°-70° Above 70°
Scale of Tints for JULY.

DAILY WEATHER REPORT. 22nd July, 1915.

REPORTS FOR YESTERDAY. 21st July.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1013·7	68	WNW	2	0	1015·3	+1	66	−6	W	3	SW	bc	*	1	82	63
Madrid	1011·8	90	WSW	2	b	1016·8	+2	72	−3	–	0	–	b	*	–	95	66

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	7	57	51	muc	or	0·8
	Banff	1	64	50	bc c	c o g c	5·6
	Carnoustie	–	65	49	bc c	c o	7·2
	St. Andrews	–	66	51	*	*	8·8
Eng. N.E.	Harrogate	1	59	50	bc c	c o	3·1
	Skegness	–	66	51	c bc	bc o	8·4
Eng. N.W.	Morecambe	1	61	54	bc	bc c o d	4·3
	Blackpool	–	62	54	c	o c c	1·5
	Southport	–	61	54	c o	c	1·6
Midlands.	Buxton	2	61	48	bc	bc	2·9
	Leamington Spa	–	66	51	c bc	bc c	6·2
	Malvern	–	?	42	bc	b bc	3·2
	Ross-on-Wye	–	67	50	bc q	c bc q o	5·2
Wales.	Rhyl	–	62	53	c	bc c	0·7
	Colwyn Bay	–	62	52	c b o	o u g	0·5
	Llandudno	–	63	53	c	c	0·0
	Aberystwyth	–	62	56	o c o	c o	1·5
	Tenby	–	64	49	b	bc	2·5
England. E.	Cromer	–	64	52	b bc c	c o	7·1
	Lowestoft	–	69	53	bc c	c o	8·6
	Felixstowe	–	68	54	bc	bc q	7·8
	Walton-on-Naze	–	68	52	bc	bc	8·8
	Southend-on-Sea	–	70	53	b bc b	b bc c	9·1

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England. S.E.	Tunbridge Wells	–	67	51	b bc b	bc c o	7·3
	Margate	–	69	54	b bc	bc bc	9·7
	Ramsgate	–	70	51	c	bc	9·1
	Hastings	–	65	52	b	b bc	9·0
	Bexhill-on-Sea	–	67	58	o c o	o c	5·3
	Eastbourne	–	64	55	b	b bc o	10·0
	Seaford						
	Brighton	–	65	54	bc c	c o	7·6
	Worthing	–	66	52	bc	c o	7·8
	Littlehampton	–	65	59	b	bc o	8·0
	Bognor	–	68	53	b bc	o	7·8
	Southsea	–	66	54	b	c o	6·7
	Bournemouth	–	68	51	bc	o	5·5
England. S.W.	Weymouth	–	66	54	bc c	c o r	3·7
	Torquay	1	64	52	o	pc o	3·0
	Paignton	1	65	51	o bc	o p	3·3
	Falmouth	2	62	52	c q	c r o	1·1
	Penzance	1	63	52	bc c	c o r c	0·6
	Newquay	0·3	62	55	c	o p	0·5
	Ilfracombe	1	62	56	o q p c	c bc c	1·8
	Weston-super-Mare	–	64	54	b bc c	c bc c	3·0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	56	87	9·6	72	57	54	.	bc c	c o	o, r o
City (Bunhill Row)	*	*	8·9	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	88	8·6	68	58	55	.	bc	bc	bc e o
Camden Sq. (Brit. Rainfall)	48	80	7·2	71	57	55	.	bc	bc, c	*
Hampstead (Reservoir)	*	83	7·3	66	54	44	0·3	bc o p	o	o e
Richmond Park	*	*	7·6							
Kew. (See front page.) (Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	52	80	8·1							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1675 Joules	29·3 Milliwatts.	83 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	0·4	61	51	49	c o p	o p. b	b c p o	2·3
Manchester ,,	0·1	62	53	*	o, r o	o c o	o c o	3·8
Birmingham ,,	–	64	50	45	*	c	c o	5·2
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	1	66	52	47	bc	c	c, o e	2·5
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	69	54	50	c o	o c o	c o	*

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

22nd & 23rd July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	3·58 / 4·0	11·59 / 11·59	8·0 / 7·58
Greenwich	3·10 / 4·12	12·6 / 12·6	8·2 / 8·0
Wick	3·42 / 3·46	12·18 / 12·18	8·53 / 8·51
Valencia	4·48 / 4·50	12·47 / 12·47	8·46 / 8·46

NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 70° at a few English stations, but remained below 65° over a considerable portion of the Kingdom. Slight rain fell in many localities, and except at some eastern and southern stations, there was little bright 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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§ 1 mm. is approximately 4 hundredths of an inch.

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 204. Friday 23rd July 1915.

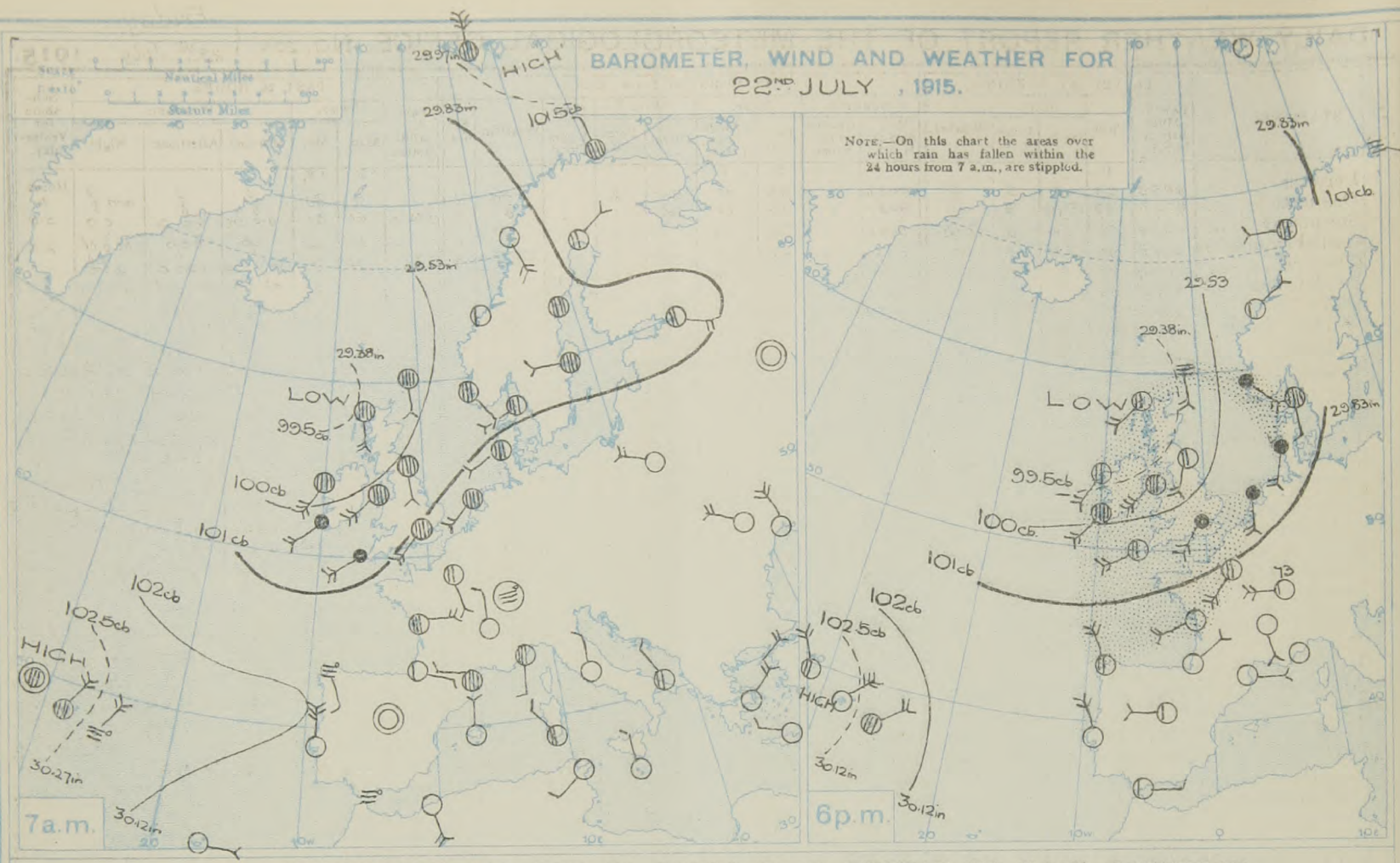
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	995·5	55	S	3	f c	993·6	0	53	-1	SW	2	.	m	1	1	56	50	f	f	om f	*
	Deerness ...	993·5	57	NNW	3	c	993·5	+	54	+1	W	1	.	0	1	Trace	61	51	o c. bc	bc. c	c o	5·8
	Stornoway ...	993·2	59	SW	3	bcp	993·6	+1	53	-2	.	0	.	f	0	1	61	46	cp	bcp	bc b of	4·2
	Castlebay (Barra Isd.)	992·6	56	SE	2	0	995·1	+2	55	0	NW	3	.	bc	3	0·2	58	52	oc. bm c	om o	o. bc	1·7
	Glasgow ...	994·9	58	S	2	ou	995·2	+1	53	-2	W	1	SW	om	*	7	63	50	op. c oc	c. op. ot	bc po	2·5
	Eskdalemuir ...	996·0	55	S	4	0	995·5	+1	54	-1	SSW	2	.	0	*	6	58	50	opq o	op. o	o. c. bcm	0·3
	Malin Head ...	994·2	59	W	2	bc	995·6	+2	55	+1	NW	2	W	bc	2	4	61	53	omp	bc	bc	8·1
	Blacksod Point	994·4	58	SSW	3	bcp	997·8	+4	55	-1	NNW	2	.	b	3	2	61	50	cp	bcp	bcg. bc	*
	Valencia ...	996·3	59	SW	4	c	999·0	+4	57	-1	WNW	3	NW	c	4	3	64	54	bcp	bcw	c. o. cp	6·1
	Roche's Point	999·4	60	SW	3	c	998·6	*	56	-1	NW	3	NW	c	2	1	63	53	d. o. c	co. c. bc	cp. c	*
	Birr Castle ...	995·9	61	W	1	c	997·5	*	55	-2	W	1	.	0	*	12	65	53	cp	cp	c. o	6·4
	Donaghadee ...	995·1	56	SSE	2	om	995·2	+2	53	-3	NNW	2	NW	om	1	3·1	64	51	omp	omr. te	cgmp	*
	Liverpool (Bidston)	998·1	63	SW	4	b	996·3	0	57	-2	SSE	1	SE	c	2	2	67	54	p. og	bc. g	bc	5·8
	Holyhead ...	997·4	58	SW	5	qpf	995·5	0	56	0	SW	3	.	omp	2	0·3	60	56	of cf	of c. bc	c. bc. op	2·3
	Pembroke (St. Ann's)	1000·3	58	SW	5	bc	?	+1	56	0	W	3	W	c	4	4	62	56	cg	bcg	bc gm	4·9
	Scilly (St. Mary's)	1003·1	60	WSW	4	bcm	999·7	+1	56	-3	W	6	W	cgp	6	8	62	55	omp	om bcm	cg omp	3·6
	Falmouth ...	1002·8	60	SW	6	c	999·9	+1	56	-3	SW	5	.	bc	4	1·5	61	55	rg	cgm	cr. bc	0·4
	Jersey (St. Aubin)	1008·2	60	SSW	3	ogmr	1004·3	*	60	+1	SW	4	SW	c	3	1·8	64	58	op. og	ogmr	op o. c	0·0
	Portland Bill ...	1004·5	56	WSW	4	or	1000·4	-1	58	+1	SW	5	SW	cp	5	2·6	59	55	or	or	or. cr	*
	Dungeness ...	1006·9	59	S	5	r	1002·3	+1	60	+1	S	5	S	c	5	1·5	62	58	o. c. or	or	or. bc	*
	Dover	? 1007·6	57	SSW	5	r	1002·3	?	59	+1	SW	5	SW	bc	6	1·9	59	56	c	opd	c. o. cbc	0·1
	Wick	993·9	57	N	3	c	994·1	+1	55	+2	.	0	.	c	2	1·9	60	48	o. bcm	bc. c	omp com	*
	Nairn	993·2	64	W	1	bc	993·3	*	56	-2	WSW	1	.	bc	1	0·3	66	50	bc. c	bc. c. bc	cdg	4·9
	Aberdeen ...	994·4	60	S	2	bc	994·1	+1	57	-1	.	0	SW	b	2	.	65	50	c. bc	c. o bc	c bc b	4·8
	Leith	995·2	62	SW	3	0	994·7	+2	56	-4	W	1	.	bc	*	1	66	50	o. c	cp. o	o. c	*
	Tynemouth ...	996·6	63	SSW	3	bcm	996·4	0	57	-1	SW	2	W	om	2	.	68	54	bc	bc	bcm	*
	Spurn Head ...	1001·1	61	SW	5	0	998·1	0	57	+1	SW	4	-	bc	5	2	63	53	dg	dgp	dg	0·0
	Yarmouth ...	1004·2	59	SSW	3	o	1000·7	-1	58	0	WSW	2	.	o	3	9	63	56	or	or	or. o	0·0
	Clacton-on-Sea																					
	Nottingham ...	999·5	62	SW	2	0	997·8	*	58	-1	SW	2	SW	c	*	2	63	54	or	r. o	o. c	0·1
	Bath	1002·9	57	SW	1	0	999·0	*	59	-2	W	3	W	o	*	1·1	63	55	or	r. o	o. c. bc	0·0
	Sth Farnborough	1003·7	60	SSW	4	r	1000·0	-1	59	0	SSW	3	.	o	*	1·4	60	54	or	r	r. o. bc	0·0
	London (Kew Obsy.)	1003·8	60	SSW	3	or	1000·5	0	60	0	SW	4	.	c	*	1·6	62	56	op. od. o m	or	or. o. c	0·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	1013·9	50	SE	2	f	1007·7	-2	55	+5	SE	3	5	c	2	*	52	45				
	Bodö	1006·9	57	W	2	c	1003·3	0	52	-14	SW	1	-	o	1	-	66	50				
	Christiansund	1001·7	63	NE	2	b	998·0	-2	63	+6	E	2	-	c	2	-	63	55				
	Skudesnaes ..	1001·6	55	ESE	8	r	997·7	0	55	-2	E	2	-	f	2	11	57	55				
	Færder (X'ianiaFjord)																					
	The Scaw (Skagen)	1008·8	59	E	1	0	1004·0	-2	59	+2	S	4	.	r	4	4	63	57				
	Blaavands Huk	1008·8	60	SSW	3	r	1003·4	-1	59	-2	SSW	4	-	r	3	8	63	55				
	Haparanda ...														*							
	Hernösand ...														*							
	Stockholm ...														*							
	Wisby														*							
	Karlstad														*							
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·7	57	S	4	r	1002·0	0	59	0	S	3	.	o	2	1·1	63	57				
	C. Gris Nez ...	1007·4	59	SSW	5	0	1002·7	+1	59	+1	?	6	*	b	5	1·8	64	55				
	La Hève	1009·0	59	SSW	4	r	1003·3	*	59	0	SW	5	*	c	5	7	66	50				
	Ushant	1006·3	59	W	5	0	1005·2	*	59	-1	W	6	*	c	4	7	61	55				
	Brest (St. Mathieu)	1007·8	59	SW	3	0	1006·6	+1	60	+1	W	6	*	c	4	-	64	59				
	Rochefort (Ile d'Aix)	1013·5	67	WSW	3	b	1011·7	+3	64	+3	W	4	*	c	*	3	72	7				
	Biarritz	1013·2	70	NE	2	b	1014·9	+2	67	+3	WSW	3	*	o	2	-	77	64				
	Paris	1009·6	72	SSW	3	bc	1007·8	0	61	+2	SSW	3	.	o	*	6	77	57				
	Belfort	1013·6	73	W	3	b	? 1012·3	*	69	+9	W	2	*	c	*	-	78	60				
	Lyons	1011·9	80	SSE	2	b	1012·3	*	72	+8	E	3	*	o	*	-	82	55				
	Nice	1016·4	70	.	0	b	1017·2	+1	70	0	-	0	*	b	0	-	81	68				
	Perpignan ...	1014·0	79	E	2	b	1013·6	0	72	0	-	0	N	0	*	-	86	63				
	Sanguinaire ...	*	80	NW	2	m	*	*	76	+2	SE	2	*	m	2	-	84	70				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1017·0	68	NW	4	bc	1018·1	+2	66	+9	SW	4	.	o	2	1	72	57				
	Madrid (8 a.m.)	1010·6	91	W	2	b	1013·7	+1	73	+1	W	1	W	o	*	-	96	66				
	Lisbon (9 a.m.)	1015·0	86	NNW	4	b	1019·4	+2	66	-2	N	2		o	2	-	88	64				
	Gibraltar	1015·2	74	E	1	b	1018·9	*	74	+3	W	3	*	b	1	-	86	69				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1018·7	+2	77	+2	N	1	-	b	0	-	81	72				
	Azores (Horta, 8 a.m.)	? 1026·4	*	NE	5	b	1027·9	0	69	-2	NNE	1	*	c	1	-	79	66				
	Madeira (Funchal)																					

RAINFALL.

Equivalents of Millimetres in Inches.

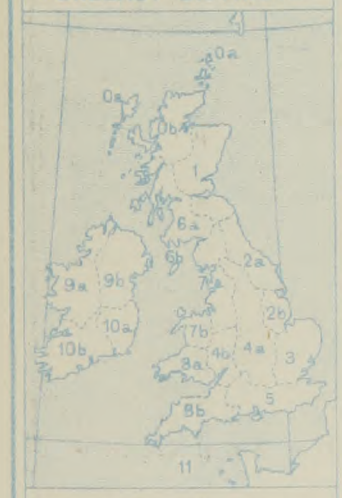
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 a, b 1 2 a, b	Wind veering to the North-Westward, light or moderate; changeable, some showers; rather cool.
3 4 a, b 5	Wind veering to West or North-West, light to moderate, fresh locally; variable weather, some showers, then fairer; air cool.
6 a, b 7 a, b	Wind veering to North-West or North, light to moderate or fresh; some showers; cool.
8 a, b	Westerly or North-Westerly winds, fresh to moderate; some showers; cool.
9 a, b 10 a, b	Same as Nos. 6 and 7.
Western Channel and Bay 11	Westerly and North-Westerly winds, strong to moderate; sea rather rough; showery to fair.

FURTHER OUTLOOK.

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

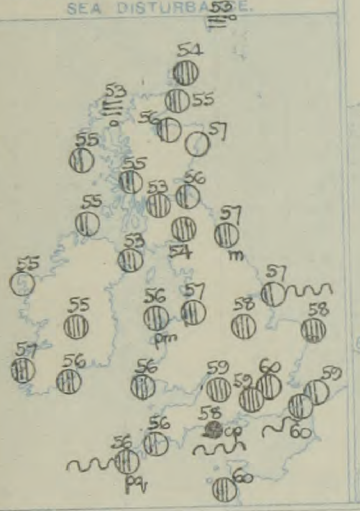
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 23RD JULY, 1915.

GENERAL INFERENCE.

The low pressure system over these Islands will probably move in an easterly direction, and the wind in its rear will veer generally.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

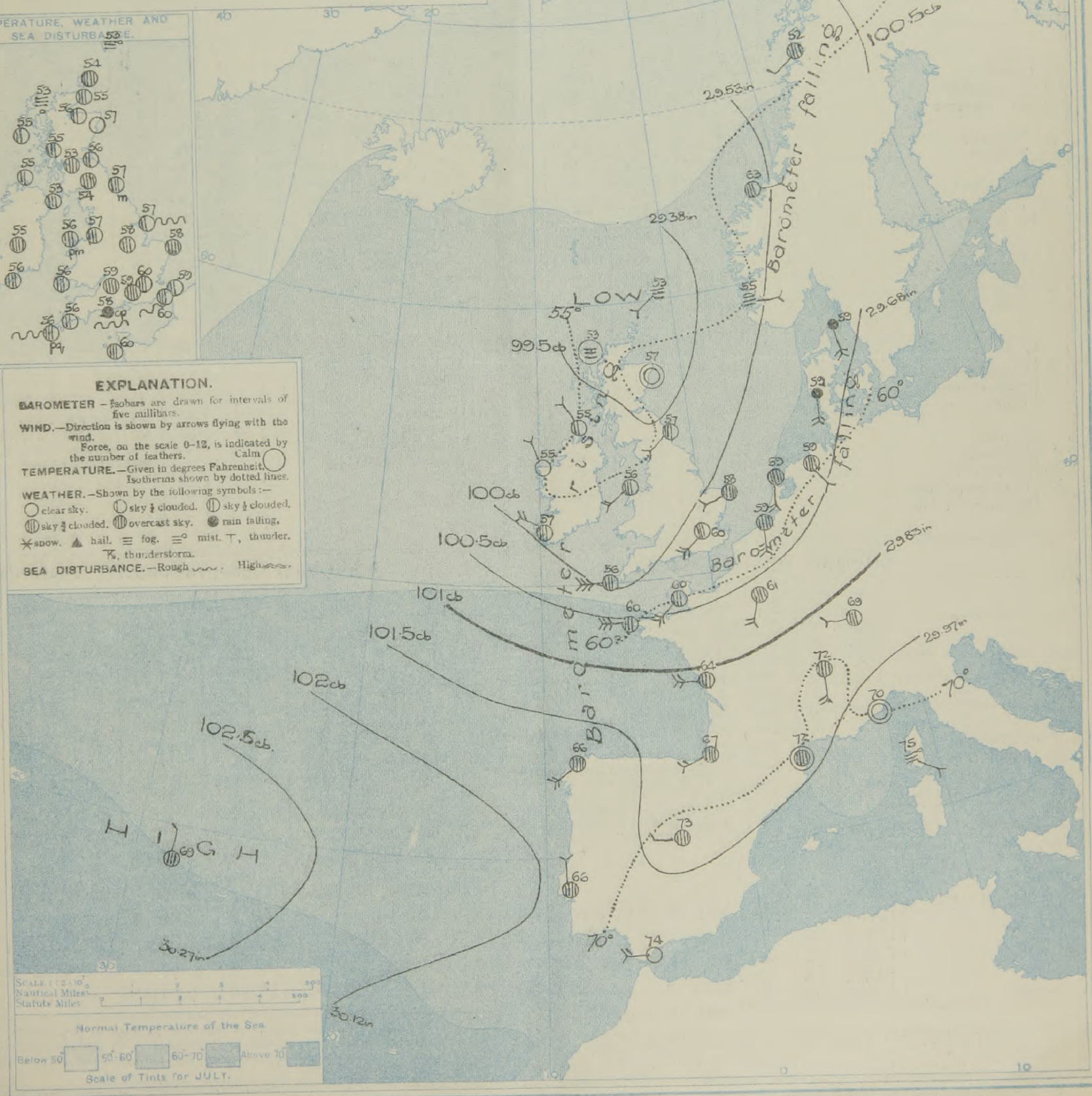
BAROMETER – Isobars are drawn for intervals of five millibars.

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 ≈≈.



DAILY WEATHER REPORT. Friday, 23rd July, 1915.

REPORTS FOR YESTERDAY.

22nd July

STATIONS.	Evening Observations: Barom. Millibars at M.S.L.	Evening Observations: Temp. °F.	Evening Observations: Wind. Direc.	Evening Observations: Wind. Force 0–12.	Evening Observations: Weather.	7 a.m., G.M.T.: Barometer. Millibars at M.S.L.	7 a.m., G.M.T.: Barometer. Change in 3 hours.	7 a.m., G.M.T.: Temp. Dry Bulb. °F.	7 a.m., G.M.T.: Temp. Change in 24 hours. °F.	7 a.m., G.M.T.: Wind. Direc.	7 a.m., G.M.T.: Wind. Force 0–12.	7 a.m., G.M.T.: Direc. of Upper Cloud.	7 a.m., G.M.T.: Weather.	7 a.m., G.M.T.: Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Haparanda	1011·9	64	S	2	b	1010·9	-1	66	+2	NE	2	S	bc	*	-	70	55
Hernosand	1010·3	59	S	2	c	1007·8	-1	59	0	-	0	-	0	*	-	66	57
Stockholm	1009·5	61	S	2	0	1007·8	+1	61	-2	W	2	-	0	*	Trace	68	57
Wisby	1009·6	61	S	2	m	1010·0	+1	61	-3	WSW	2	-	C	*	1	70	55
Karlstad	1007·7	63	S	2	bc	1008·8	+1	59	0	WSW	2	-	bc	*	7	64	54
Petrograd	1012·8	72	E	3	b	1009·1	-2	73	+7	SE	3	S	bc	*	—	75	64
Rome	1016·7	73	SW	1	b	1017·3	+2	70	-	N	1	=	b	*	-	84	61
Malta	*	*	*	*	*	1018·0	+2	75	-2	N	1	=	b	1	—	84	70

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	19	60	52	ov	bc.c	1·6
	Banff	2	67	53	bc.c	ctp	1·9
	Carnoustie	6	65	53	bc.op	r.c.og	2·2
	St. Andrews	5	66	54	*	*	1·8
Eng. N.E.	Harrogate	1	65	54	op	o.c.bc	2·2
	Skegness	20	62	55	r.o	rg	0·0
Eng. N.W.	Morecambe	3	65	55	od	o,bc	2·4
	Blackpool	3	67	55	cg	bc	2·0
	Southport	6	65	55	or.c	c.op.c.b	2·7
Midlands.	Buxton	14	63	47	r.bc	bc	1·0
	Leamington Spa	1	71	52	or	or	0·0
	Malvern	3	68	44	od	oc	0·0
	Ross-on-Wye	4	62	56	or	o.bc.c	0·1
Wales.	Rhyl	31	65	55	r.o.c	p.bc	3·5
	Colwyn Bay	4	66	55	bcp	bcp	4·5
	Llandudno	2	66	56	c	c	2·4
	Aberystwyth	5	63	57	r.oc	c bc	4·2
	Tenby	4	61	54	bc	bc	2·9
England. E.	Cromer	9	60	54	o.or	or	0·0
	Lowestoft	8	62	53	or	or	0·0
	Felixstowe	7	63	57	bcq	or	0·3
	Walton-on-Naze	10	61	57	o.c.oqr	oqr	0·2
	Southend-on-Sea	7	61	57	c or	or	0·0
England. S.E.	Tunbridge Wells	12	60	51	o.oc	oc	0·0
	Margate	4	63	54	c.p.o	or	0·0
	Ramsgate	2	65	55	or	or	0·0
	Hastings	7	60	54	o	or	0·0
	Bexhill-on-Sea	5	65	49	or	r	0·0
	Eastbourne	9	60	58	or	rq	0·0
	Seaford	8	60	57	r	r	0·0
	Brighton	13	59	59	oc	r	0·0
	Worthing	15	60	58	r	r	0·0
	Littlehampton	13	61	57	oc	r	0·0
	Bognor	5	61	58	oc	oc	0·0
	Southsea	8	60	56	rg	rg	0·0
	Bournemouth	14	59	54	r	r	0·0
England. S.W.	Weymouth	19	59	55	or	or	0·0
	Torquay	17	61	54	or	or	0·0
	Paignton						
	Falmouth	15	61	56	rq	cqrm	0·2
	Penzance	7	63	59	owr c	c	1·8
	Newquay	7	62	58	or.o	o bcb	1·5
	Ilfracombe	9	62	57	r.o	o.c.bc	0·5
	Weston-super-Mare						

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	97	94	0·0	62	55	52	16	0.or	or	or.o
City (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	100	96	0·0	62	57	54	20	r	r	r
Camden Sq. (Brit. Rainfall)	93	92	0·0	63	56	54	18	0.or	or	*
Hampstead (Reservoir)	*	94	0·0	59	53	43	25	or	or	or
Richmond Park	*	*	0·0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	95	91	0·0							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
404 Joules‡	7·1 Milliwatts.	23 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	5	66	56	55	c	cgp	gbp.cb	*
Darwen to 9 p.m.	12	63	53	51	ocu	ocu	bcp	4·2
Manchester ,,	12	66	55	*	or	o	op.c.o	1·0
Birmingham ,,	4	61	54	52	*	0.p	p. c	0·1
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	10	66	52	52	c.or	r	r.o.c	0·0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	12	65	57	55	09.p	09.or	or	*

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

22nd & 23rd July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·0 / 4·2	11·59 / 11·59	7·58 / 7·56
Greenwich	4·12 / 4·13	12·6 / 12·6	8·0 / 7·59
Wick	3·45 / 3·47	12·18 / 12·18	8·51 / 8·49
Valencia	4·50 / 4·52	12·47 / 12·47	8·44 / 8·42

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° in nearly all parts of the United Kingdom - below 60° in several places. Rain fell very generally, heavily in places; as much as 31 mm. at Donaghadee, 26 mm. at Portland Bill, and 25 mm. at Hampstead. 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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§ 1 mm. is approximately 4 hundredths of an inch. ‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 205 { Saturday 24th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Baxom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Min. °F.	Weather. Morning.	Afternoon.	Night	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	9965	56	NNE	2	bc	1001·2	+2	51	-2	NNE	2	N	c	1	-	61	50	bc	bc	c	1·2
	Deerness ...	9966	55	SE	1	c	1001·3	*	51	-3	N	2	-	fr	1	6	61	50	or	mcc	c.or	1·2
	Stornoway ...	9987	53	NNW	4	o	1002·0	+1	56	+3	W	3	-	bc	3	.4	56	49	qf mo	op o	bo.bo.bc	0·2
	Castlebay (Barra Isd.)	9997	58	WNW	3	o	1008·1	+2	52	-3	NW	3	SW	c	3	3	59	50	bc o	o bc o	op c	4·7
	Glasgow ...	9975	61	WNW	5	bc	1003·3	+3	53	0	W	1	-	c	*	-	66	48	cmc bc	bc c	bc.b oc	11·0
	Eskdalemuir ...	9972	60	WNW	4	bc	1002·9	+2	53	-1	WNW	3	W	c	*	2	63	43	o bc op	or c bc	3c c 3c	6·3
	Malin Head ...	1000·2	56	NNW	3	bc	1004·0	+2	53	-2	NW	3	W	bc	3	8	60	50	bc	c	cp	8·5
	Blacksod Point	1003·2	56	NW	3	bc	10067	+2	53	-2	W	3	W	cg	2	1	59	50	bc	bcg	cm up	*
	Valencia ...	1005·0	60	W	4	bc	1009·2	+3	56	-1	NNW	3	W	c	3	1	62	54	cp	br	c.op c	7·3
	Roche's Point	1005·3	63	NW	4	bc	1008·1	*	55	-1	NW	2	NW	c	2	2	65	55	cp	cp bc	bc b	*
	Birr Castle ...	1001·8	62	NNW	1	c	10070	*	54	-1	NW	1	-	o	*	4	64	53	cp	cp	c o	4·8
	Donaghadee ...	9995	56	N	3	cmp	1004·2	+2	55	-2	W	2	W	cgm	2	2	59	52	cmp	cmp	cmpcg	*
	Liverpool (Bidston)	9995	60	W	4	b	1005·1	+3	56	-1	W	3	SW	o	3	-	62	54	c bc	bc	o	3·6
	Holyhead ...	10001	60	SW	3	b	1005·3	+2	56	0	WNW	4	-	o	3	-	63	54	c oc bc	bc c bc	bc c o	8·4
	Pembroke (St Ann's)	1003·3	58	WNW	4	b	10067	+2	56	0	NNW	1	NW	c	1	trace	60	55	c	bcg	bg	9·3
	Scilly (St. Mary's)	1006·3	58	W	4	cgp	1007·6	0	56	0	WNW	2	NW	bc	5	3	63	54	c bc	cgp	cp	10·7
	Falmouth ...	10056	60	SW	5	bc	1006·9	+1	57	+1	W	3	-	bc	3	1	63	53	cg	op bcg	bc	9·1
	Jersey (St. Aubin)	1008·1	62	WSW	5	b	1008·9	*	60	0	SW	3	SW	c	2	trace	64	57	cp b	b.	bc	11·8
	Portland Bill ...	1003·7	57	WSW	6	bcg	10063	0	56	-2	WSW	4	SW	bc	5	1	60	55	or	bcg	bc	*
	Dungeness ...	1003·9	60	SW	7	cg	10068	+1	59	-1	SW	4	SW	cgp	4	3	64	57	bcg	bcg	bc.b.cp	*
	Dover	1003·9	59	SSW	6	bc	1007·4	0	57	-2	SW	3	SW	c	4	1	62	55	bc.c.bc	bc.c.bc	bc.cp.c	10·6
	Wick	9967	55	NE	2	o	1001·8	+4	52	-3	NNW	1	N	c	2	2	57	48	c.bc	bc.cm b	cmgcm	*
	Nairn	9964	57	W	1	cd	1002·0	*	53	-3	-	0	-	bc	1	9	67	50	c.bc	bc.m c.b	m m o	7·6
	Aberdeen ...	9961	60	ESE	1	bc	1002·0	+3	55	-2	NW	3	-	cp	2	0·2	66	53	bc c m 7	cp.g.bc	bc.cp	4·2
	Leith	9956	66	WNW	3	bc	10026	+3	52	-4	WSW	2	-	o	*	trace	69	50	bc.c.oc	c bc	bc.b	*
	Tynemouth ...	9963	63	WSW	1	bc	1003·1	+3	55	-2	WNW	2	-	b	2	8	64	50	cmrtl	bcp tl	bc	*
	Spurn Head ...	9982	56	WSW	3	o	1004·7	+4	57	0	W	1	-	cm	3	7	65	55	cltr	cg tlr	cp cmc	5·1
	Yarmouth ...	1000·2	62	SW	2	bc	10064	+3	56	-2	SW	2	SW	bc	3	8	66	53	cp tlr	bcp	bcp	5·7
	Clacton-on-Sea	1001·5	60	SSW	5	bc	10066	+2	57		W	3	W	bc	2	14	65	55	cg p tl	cg p c	c bc	7·2
	Nottingham ...	999·2	59	W	2	c	10052	*	53	-5	SW	1	SW	cm	*	4	63	48	cp	cp tl	bc bm	1·7
	Bath	1002·7	61	W	4	bc	10059	*	57	-2	W	1	W	o	*	7	65	50	p bl rk	bc c	bc.b o	6·4
	Sth Farnborough	1001·8	62	WSW	3	c	1006·3	+1	58	-1	WSW	2	W	cw	*	15	65	51	p	p c	b bc.b bc	6·5
	London (Kew Obsy.)	1002·1	64	SW	4	b	1006·9	+1	58	-2	SW	2	-	c	*	9	64	53	c or o c	cm sp cm	b bc c	5·4
NORTHERN EUROPE.	Spitsbergen ...	1004·4	41	NW	1	fr	996·2	-4	41	+2	-	0	*	o	*	*	41	36				
	Vardö	1007·9	59	S	1	b	1011·5	0	59	+4	SSE	3	W	b	2	*	59	48				
	Bodö	1001·6	66	ESE	1	c	10026	+1	63	+11	E	2	N	b	2	-	66	50				
	Christiansund	997·5	68	NW	1	b	996·7	0	59	-4	NE	1	-	b	2	1	70	55				
	Skudesnaes ..	997·6	57	-	0	f	9999	+3	57	+2	SE	3	-	m	3	-	57	55				
	Færder (X'tiania Fjord)	1002·4	59	S	4	o	1003·9	+3	59	0	S	6	-	bc	3	6	59	57				
	The Scaw (Skagen)	1002·6	61	SSE	3	o	10044	0	59	0	SSW	2	S	bc	3	6	61	57				
	Blaavands Huk	1002·6	63	SW	4	b	1004·4	0	61	+2	SW	3	SW	c	2	2	64	58				
	Haparanda ...	1011·3	61	SSW	6	b	1014·9	0	63		S	4	-	o	*	-	64	59				
	Hernösand ...	1009·5	59	S	2	fr	1008·3	-1	57		SE	2	-	fr	*	9	66	55				
	Stockholm ...	1010·1	64	S	2	o	1007·8	0	61		SSW	2	-	o	*	1	70	59				
	Wisby	1010·3	70	SSE	4	bc	10080	+1	66		WSW	2	SE	bc	*	-	78	63				
	Karlstad	1005·1	61	SE	2	o	1006·1	0	61		S	4	-	o	*	7	63	57				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1001·9	61	SSW	6	b	10060	+3	61	+2	WSW	3	-	c	2	2	64	59				
	C. Gris Nez ...	1004·7	60	WSW	6	bc	10064	+2	59	0	-	0	*	o	4	-	64	57				
	La Hève	1009·5	77	W	5	c	1009·3	*	56	-3	WSW	5	*	o	5	2	?	?				
	Ushant	1010·4	59	W	5	bc	1008·2	*	59	0	WSW	2	*	o	5	2	63	54				
	Brest (St. Mathieu)	1011·0	61	W	3	c	1010·0	0	58	-2	SW	2	*	c	3	-	66	57				
	Rochefort (Ile d'Aix)	1014·9	66	W	5	c	1012·7	-2	61	+3	WSW	3	*	fr	*	2	72	61				
	Biarritz	1017·3	66	WSW	2	c	1015·4	-2	64	-3	WSW	1	*	c	4	2	67	61				
	Paris	1009·5	66	W	3	c	1011·8	0	63	+2	SSW	2	-	bc	*	-	75	54				
	Belfort	1014·7	57	W	2	fr	1015·4	*	57	-12	W	3	*	c	*	10	76	53				
	Lyons							*					*		*							
	Nice	1014·1	69	S	2	c	1009·0	-2	73	+3	S	2	*	b	3	-	82	63				
	Perpignan ...	1014·0	73	W	2	o	1016·0	0	66	-6	NW	1	SW	o	*	Trace	82	61				
	Sanguinaire ...	*	80	NW	1	m	*	*	76	0	SE	1	*	c	2	-	86	72				
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019·5	68	WSW	4	o	1016·0	+1	66	0	SW	3	-	fr	5	1	70	64				
	Madrid (8 a.m.)	1010·1	88	W	2	bc	1018·3	+3	68	-5	WNW	4	-	b	*	-	90	64				
	Lisbon (9 a.m.)																					
	Gibraltar	1018·3	82	W	6	b	1019·3	*	76	+2	W	5	*	b,	4	-	95	73				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1016·4	+1	75	-2	NW	2	-	b	1	-	91	70				
	Azores (Horta, 8 a.m.)	1028·3	*	ENE	4	o									*							
	Madeira (Funchal)	1022·1	73	NE	2	c	1023·9	+2	70	0	E	2	-	b	2	-	75	66				

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

Wind at 500 metres S.W. 15 m.p.h.

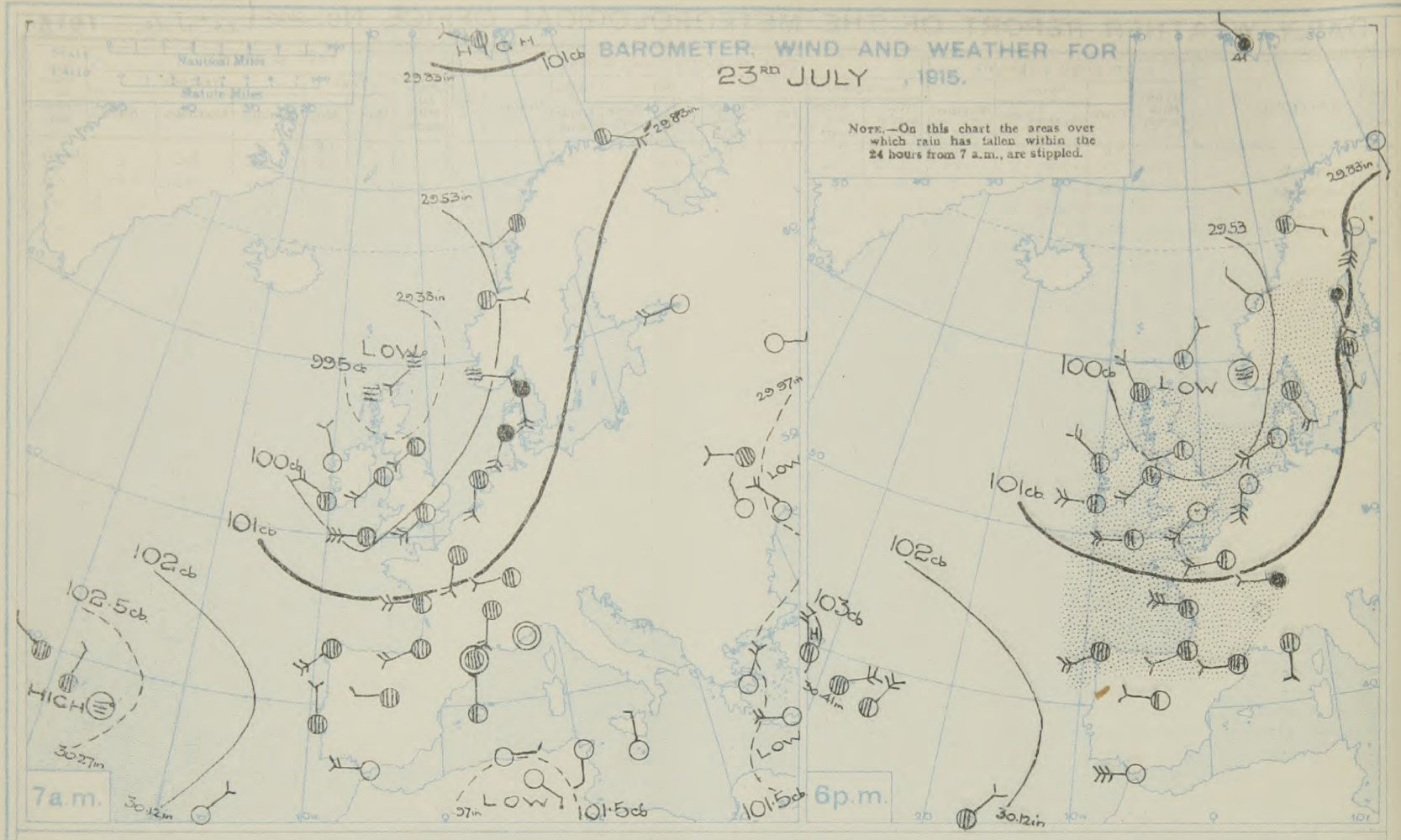
RAINFALL.

Equivalents of Millimetres in Inches.

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

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

BAROMETER, WIND AND WEATHER FOR 23RD JULY, 1915.



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

FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

No Warnings Issued.

0 (a, b) Wind light to moderate between North and North-West, backing later; mostly fair, some showers; cool.

1, 2 (a, b) Wind North-Westerly to Westerly, light; fair generally, but some local showers; no great change of temperature.

3, 4 (a, b), 5 Wind between West and South-West, light; fair generally, but some local showers; temperature changing little.

6 (a, b) Westerly to South-Westerly winds, light to moderate; fair, then some rain; cool.

7 (a, b), 8 (a, b) North-Westerly to Westerly winds, light to moderate; fair generally; rather cool.

9 (a, b), 10 (a, b) Wind backing towards South later, light to moderate; fair, then becoming showery or rainy; cool.

Western Channel and Bay 11 North-Westerly to South-Westerly winds, light to moderate; sea moderate generally; fair to dull.

FURTHER OUTLOOK.

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

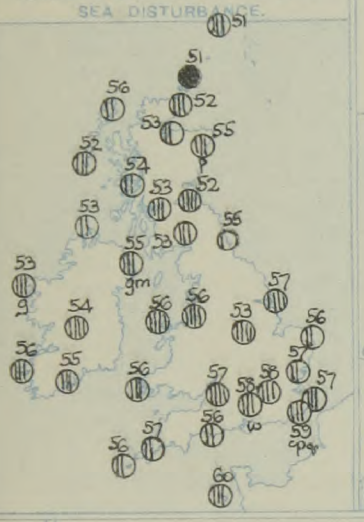
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 24TH JULY, 1915.

GENERAL INFERENCE.

The backing wind at Blacksod Point is probably the first indication of the approach of another depression to these Islands.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

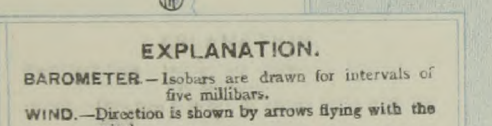
BAROMETER.—Isobars are drawn for intervals of five millibars.

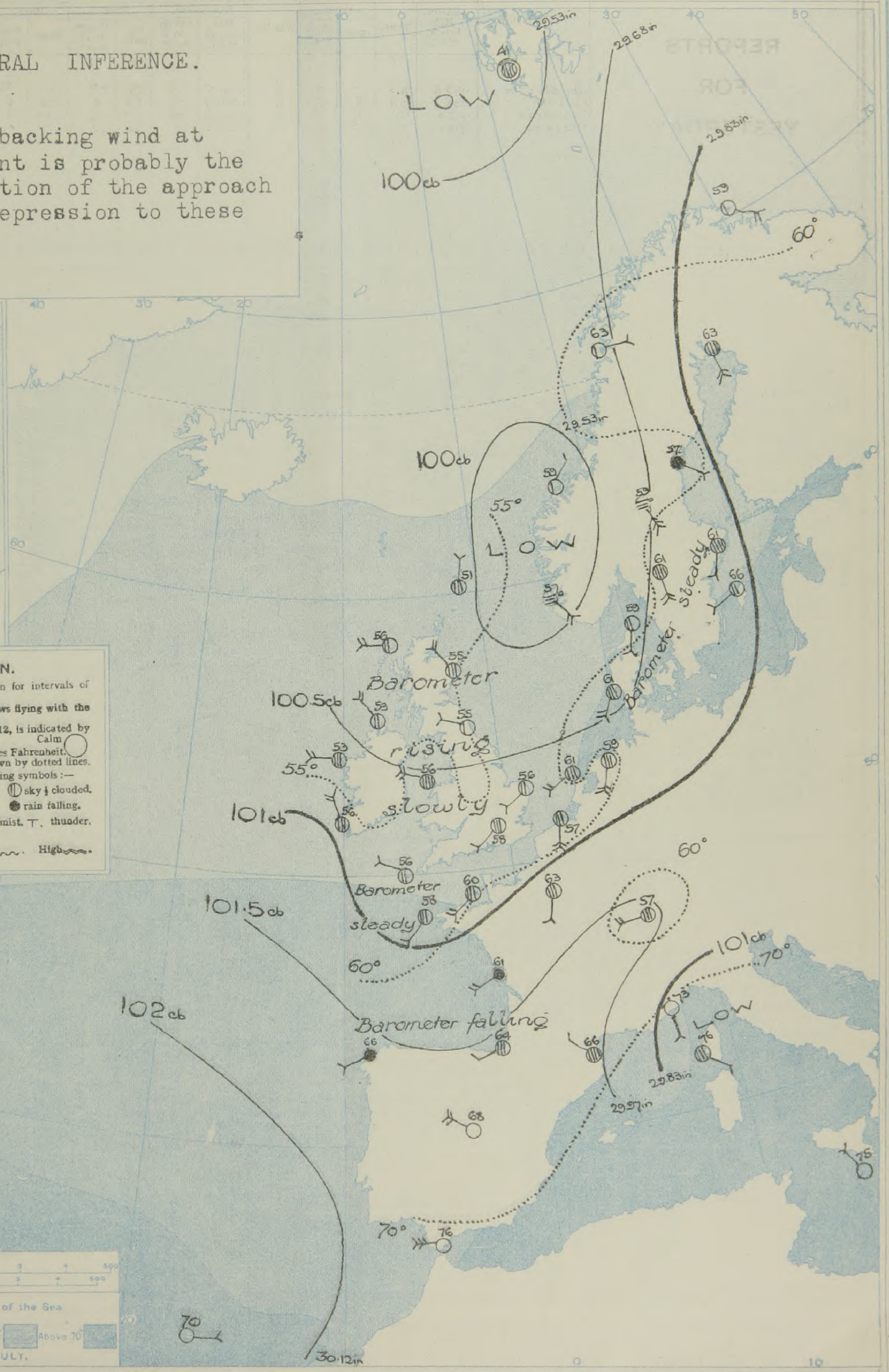
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

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 ≈≈.





DAILY WEATHER REPORT. Saturday, 24th July, 1915.

REPORTS FOR YESTERDAY.

23rd July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Spitsbergen	1015·4	43	–	0	b	1011·5	-3	39	+5	S	2	*	0	*	*	43	34
Faerdar	1008·2	59	S	5	0	1003·9	-2	59	0	SSE	6	–	r	3	3	61	57
Petrograd	1012·8	66	W	2	0	1017·9	+3	63	-10	WSW	3	–	b	*	1	79	59
Madeira	1016·6	73	E	3	bc	1019·5	+1	70	+2	NE	2	–	b	2	–	77	68

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	2	63	49	bc. c	b	5·5
	Banff	3	61	52	bc	c b. bc	6·6
	Carnoustie	1	68	49	bc o c	c o bc	7·6
	St. Andrews	7	68	52	*	*	5·2
Engd. N.E.	Harrogate	1	64	51	c o r	c b. bc	2·0
	Skegness	4	65	54	o. b	o. b. o	6·5
Engd. N.W.	Morecambe	2	65	53	bc. p. bc	bc. b	9·0
	Blackpool	-	66	51	c	bc	9·5
	Southport	0·3	62	53	c bc	c. bc b	10·5
Midlands.	Buxton	10	60	52	bc. r	bc. r	1·3
	Leamington Spa	1·2	65	54	c. bc	bc. c. b. r	6·7
	Malvern	1·4	63	53	c bc	bc	6·0
	Ross-on-Wye	7	66	54	bc. o. r	bc. c. o. r	4·4
Wales.	Rhyl	1	62	52	o. p. c	c. p. bc	6·8
	Colwyn Bay	-	62	54	c. bc	bc	3·3
	Llandudno	1	67	51	c. p	d. c	3·2
	Aberystwyth	3	61	55	r. o. c	bc. c	6·0
	Tenby	4	64	54	bc	bc	?
England. E.	Cromer	5	66	54	c. bc. c. c	b. p. bc	5·5
	Lowestoft						
	Felixstowe	8	64	56	bc	bc. p	6·4
	Walton-on-Naze	3·4	64	55	bc. p. d	c. p. bc	7·7
	Southend-on-Sea	1·4	65	57	bc. r. bc	r. o. r. bc	7·1

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
England, S.E.	Tunbridge Wells	1·2	65	55	c. o. p. bc	bc. p. bc	6·2
	Margate	6	66	57	bc. p	bc. b	8·0
	Ramsgate	7	64	54	bc. o. r	bc. p	8·7
	Hastings	1·1	63	56	bc	bc	7·2
	Bexhill-on-Sea	5	63	57	c. bc	c	2·7
	Eastbourne	1·1	64	57	p. bq	bq	10·4
	Seaford	8	62	57	b. o. r	b	10·5
	Brighton	1·1	63	57	o. c. bc	bc	7·9
	Worthing	-	64	56	c. bc	bc	8·5
	Littlehampton	6	64	50	bc	bc	9·2
	Bognor	5	63	57	v c	bc	8·2
	Southsea	8	64	56	r. bc	bc	6·5
	Bournemouth	4-	64	54	r o c	c	6·0
England, S.W.	Weymouth	2	64	55	bc	bc. q	9·0
	Torquay	4	64	55	c. p. bc	bc. c	6·8
	Paignton						
	Falmouth	5	63	55	c. q	c. p. bc. q	6·8
	Penzance	3	65	55	bc	b	11·3
	Newquay	8	62	54	c. p. bc	bc. p	8·0
	Ilfracombe	1·0	61	54	d. p. c. bc	bc. q	7·0
	Weston-super-Mare	4	63	53	o. r. bc	b	6·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	89	73	6·2	66	51	46	9	o. r. p	o. c	bc. c. o. c
City (Bunhill Row)	*	*	4·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	88	83	4·6	64	53	50	8	o. r	o. r	bc. u. b
Camden Sq. (Brit. Rainfall)	69	71	5·0	66	52	50	3	b. r. o. p	c. t. bc	*
Hampstead (Reservoir)	*	81	5·1	61	50	37	9	c. o. z	bc	c
Richmond Park	*	*	6·1							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	78	73	4·0							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1071 Joules	18·8 Milliwatts.	74 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	3	63	55	53	c	c. p	all. b	*
Darwen to 9 p.m.	5	64	52	48	o. r. bc	c. bc	bc	6·5
Manchester ,,	3	66	55	*	o. r	r. o	o. c. bc	3·3
Birmingham ,,	11	61	52	51	*	o. r. c	r. c. th	3·1
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	4	66	55	52	c. p. c	c. r. bc	bc. p	8·7
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	13	66	56	51	o. r. o	o. r. bc	o. p. o. c	*

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

24th & 25th July. 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4·42 / 4·43	11·59 / 11·59	7·56 / 7·54
Greenwich	4·18 / 4·14	12·6 / 12·6	7·59 / 7·58
Wick	3·47 / 3·49	12·18 / 12·18	8·49 / 8·47
Valencia	4·52 / 4·54	12·47 / 12·47	8·42 / 8·41

NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 65° over the greater part of the Kingdom. Showers fell very generally, accompanied by thunder and lightning in several English localities. Most places experienced several hours of intermittent sunshine.

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

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 206 { Sunday 25th July 1915.

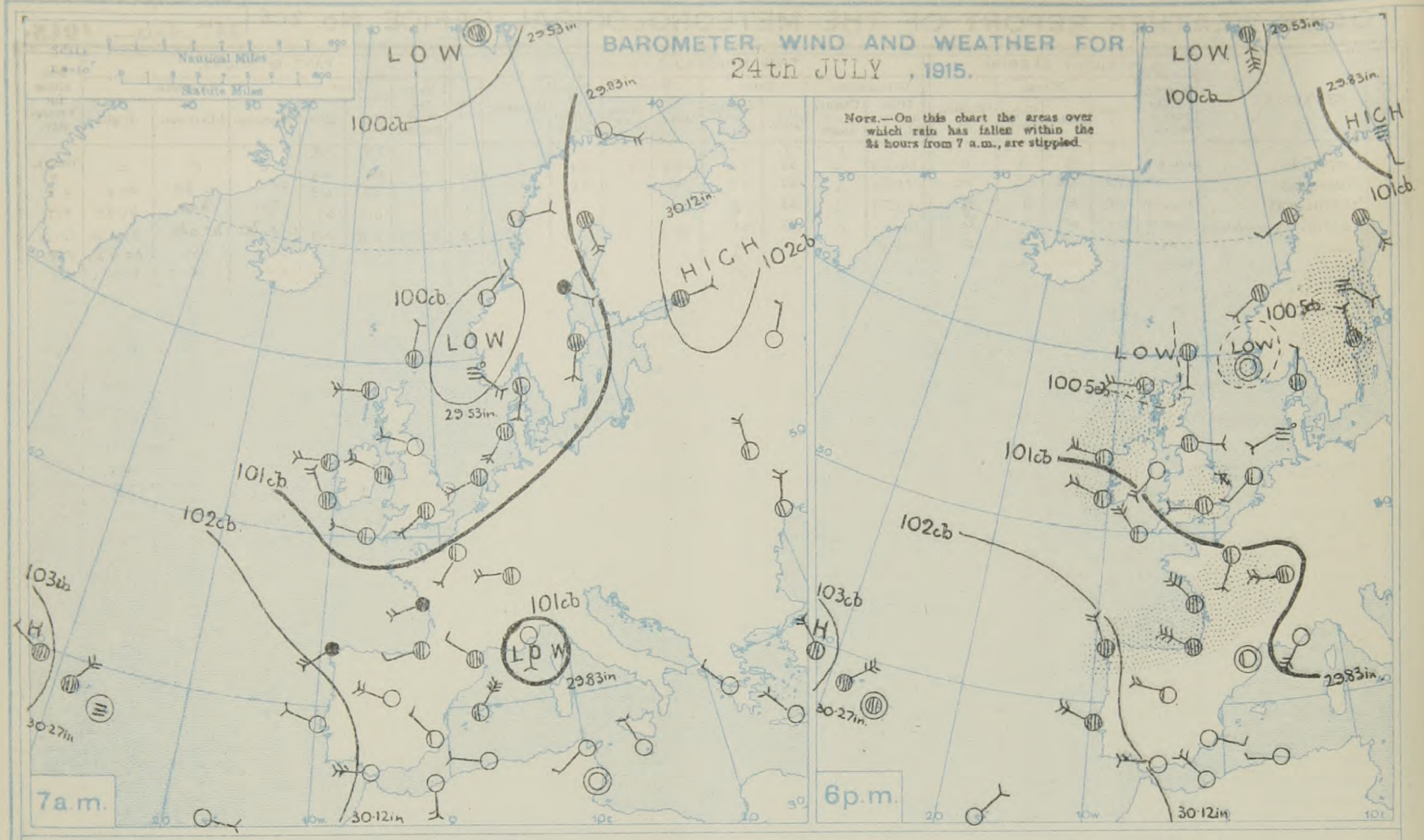
DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–8.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max. °F.	Min. °F.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday. Hours.
BRITISH ISLANDS.	Lerwick ...	1005·2	55	S	2	c	1006·5	0	53	+2	ENE	2	NE	c	2	-	61	49	c	c	c	11
	Deerness ...	†	53	SSE	2	bc	1005·4	*	52	+1	N	1	SE	c	1	-	56	48	or.c	c.bc	bc.c	2·3
	Stornoway ...	1004·8	58	W	3	bf	1005·9	0	52	-4	W	1	*	bc	1	1	61	47	bc	bcp	bc dp	7·7
	Castlebay (Barra Isd.)	1005·7	57	W	3	bc	1006·1	0	53	+1	WSW	2	-	bc	2	Trace	58	48	c.o.bc	bc.o.bc	bc o.bc	10·2
	Glasgow ...	1005·5	58	W	3	c	1006·6	0	51	-2	W	2	-	c	*	1	63	46	cop	cp.c	bc.b.bc	8·9
	Eskdalemuir ...	1005·5	59	W	4	b	1007·3	0	50	-3	S	1	W	c	*	-	64	37	c.o.c	c.bc.b	b.bc.c	8·2
	Malin Head ...	1006·6	56	NW	3	bc	1007·2	0	54	+1	S	2	SW	b	1	1	58	51	bcp	bc	bc	9·3
	Blacksod Point	1009·8	56	WNW	3	bc	1007·1	-3	53	0	SSW	2	S	bc	2	0·3	60	49	bcp	bc	bc bcm	*
	Valencia ...	1011·8	60	WNW	3	bc	1009·4	-2	55	+1	S	2	W	c	4	1	62	49	c	bcv	cp.c	10·6
	Roche's Point	1011·4	62	NW	3	c	1011·2	*	53	-2	S	1	W	c	2	1	64	47	bc.c	c	bc.cp	*
	Birr Castle ...	1009·4	58	W	1	c	1009·2	*	51	-3	W	1	-	bc	*	1	63	45	cp	cp	c.bc	6·2
	Donaghadee ...	1007·0	55	ENE	2	bcp	1007·6	+1	51	-4	NW	3	-	bcq	2	2	62	48	bcmqp	bcp	cmp.bc	*
	Liverpool (Bidston)	1007·7	60	W	2	b	1008·9	0	55	-1	W	3	-	b	2	-	63	51	o.b	b	b	8·1
	Holyhead ...	1008·3	61	SW	3	b	1008·2	0	55	-1	NW	3	-	b	2	-	64	52	ac.bc	c.bc.b	c.bc	7·7
	Pembroke (St. Ann's)	1010·1	57	W	3	bc	1010·5	0	55	-1	WNW	1	W	c	2	-	61	53	c	bc	bc	5·7
	Scilly (St. Mary's)	1012·1	60	NW	4	bc	1011·7	-1	57	+1	W	3	W	cp	4	-	63	53	bc	bc	bc.c	11·5
	Falmouth ...	1010·8	60	NNW	4	b	1011·8	0	53	-4	SW	3	-	bw	3	-	64	50	bcq	b.bcq	bw	9·2
	Jersey (St. Aubin)	1010·6	61	WNW	3	b	1013·6	*	60	0	W	3	W	bc	3	-	64	56	cog	b	b.bc	7·3
	Portland Bill ...	1008·3	60	W	3	bc	1011·3	+1	57	+1	WNW	4	W	b	4	-	62	55	bc	bc	bc	*
	Dungeness ...	1007·9	60	WSW	4	bc	1009·9	+2	56	-3	NW	3	-	o	2	1	65	54	bc	bc	bc.cpo	*
	Dover	1007·8	62	NW	5	b	1010·1	+1	59	+2	NW	4	NW	bc	2	-	62	53	c.bc.c	c.bc.b	b.bc	8·2
	Wick	1004·8	53	-	0	c	1005·5	0	51	-1	WNW	2	-	o	1	6	56	50	cm.cmp	cmp.c	cr? cm	*
	Nairn	1006·8	58	-	0	or	1005·6	*	51	-2	-	0	-	ou	1	4	63	49	bc.cg	cg.o	rd cm	2·3
	Aberdeen ...	1005·2	55	SE	3	c	1005·2	0	54	-1	NW	3	SW	c	2	1	62	49	c.o	o.pc	c	1·5
	Leith	1004·0	57	SW	1	bc	1006·1	0	52	0	WSW	3	W	bc	*	1	61	47	cp	cp	b	*
	Tynemouth ...	1005·3	56	E	2	cmg	1006·4	0	52	-3	WSW	1	-	c	2	-	60	47	cm	cm	cm	*
	Spurn Head ...	1007·1	62	SW	2	bc	1008·5	+1	57	0	WNW	4	-	bc	4	2	67	53	or.c	bc	bc	6·8
	Yarmouth ...	1007·7	56	NNE	1	tlr	1009·0	+1	53	-3	W	1	-	b	2	15	68	53	bc	bc tlr	or dc	7·3
	Clacton-on-Sea	1007·0	56	WNW	2	r	1009·4	+3	55	-2	WNW	2	NW	c	1	2	66	52	bc.c	c or	ogc	5·3
	Nottingham ...	1006·6	60	SE	1	o	1009·2	*	51	-2	W	1	W	bm	*	0·2	65	48	op.c	bc.c o	o.c.b	2·5
	Bath	1008·1	60	W	1	o	1011·2	*	56	-1	W	1	W	b	*	2 0	64	47	obl r h	op	tlr.bc	1·1
	Sth Farnborough	1007·2	62	W	3	c	1010·4	+2	54	-4	WSW	1	W	bw	*	2	67	49	c r o	c	c. h	3·0
	London (Kew Obsy.)	1007·4	60	W	2	c	1007·2	+3	55	-3	WSW	1	W	b	*	2	68	53	c	cmg tlr o c	c.op.a bc	5·4
NORTHERN EUROPE.	Spitsbergen ...	999·5	39	S	8	o	1004·2	+1	39	-2	SSW	6	*	c	*	*	45	37				
	Vardö	1013·3	64	S	1	f	1013·5	0	63	+4	S	3	-	b	1	*	66	55				
	Bodö	1004·6	55	SW	1	c	1010·3	+1	55	-8	SW	1	*	c	1	-	68	52				
	Christiansund	1005·6	55	SW	2	c	1007·1	-1	58	-4	NE	2	-	o	2	-	59	55				
	Skudesnaes ..	1004·7	61	-	0	b	1004·3	0	59	+2	-	0	-	c	2	8	63	54				
	Færder (X'lania Fjord)	1006·3	61	-	0	bc	1005·0	-1	59	0	SE	1	-	m	1	-	63	57				
	The Scaw (Skagen)	1006·0	59	N	1	c	1004·8	0	57	-2	W	1	-	f	0	-	62	54				
	Blaavands Huk	1006·4	61	SW	2	m	1006·1	0	61	0	W	1	-	bc	0	-	64	55				
	Haparanda ...	1013·0	66	SSE	4	o	1013·7	0	66	+3	SSE	4	-	b	*	-	72	63				
	Hernösand ...	1009·3	59	SE	2	f	1006·6	-1	63	+6	-	0	-	bc	*	9	68	52				
	Stockholm ...	1007·1	65	N	2	o	1001·2	-1	64	+3	S	2	-	o	*	13	68	57				
	Wisby	1005·5	59	NNW	4	r	1003·4	0	57	-9	NW	4	-	o	*	14	68	57				
	Karlstad	1007·1	64	SE	2	c	1004·7	-1	57	-4	-	0	-	r	*	3	66	54				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·0	61	SW	1	bc	1006·9	+1	59	-2	NW	1	-	c	1	-	63	48				
	C. Gris Nez ...	1007·5	60	SW	4	bc	1009·9	+3	57	-2	W	4	*	o	2	-	63	55				
	La Hève	1009·6	64	NW	3	bc	1011·0	*	59	+3	WNW	3	*	r	5	-	66	54				
	Ushant	1010·4	59	NNW	4	b	1014·6	*	57	-2	W	3	*	o	3	-	64	54				
	Brest (St. Mathieu)	1013·5	62	WNW	4	bc	1015·4	0	58	0	WNW	2	*	c	3	-	64	55				
	Rochefort (Ile d'Aix)	1012·8	63	NW	5	c	1017·1	+3	61	0	NW	3	*	o	*	10	68	59				
	Biarritz	1015·9	66	WNW	6	o	1018·5	+1	62	-2	SW	3	*	c	3	2	70	59				
	Paris	1009·1	64	SW	3	c	1013·1	+3	59	-4	W	2	-	o	*	Trace	72	55				
	Belfort	1011·7	61	-	0	c	1013·6	*	55	-2	W	4	*	o	*	11	64	54				
	Lyons	1010·9	65	S	1	o	1016·4	*	59	-	WNW	3	*	o	*	2	73	55				
	Nice	1004·8	75	SW	5	b	1007·0	+2	70	-3	-	0	*	b	3	-	86	63				
	Perpignan ...	1012·0	77	-	0	b	1016·2	+4	69	+3	NW	2	SW	bc	*	-	86	61				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·4	66	NNW	3	o	1019·9	0	61	-5	S	3	-	b	3	1	70	55				
	Madrid (8 a.m.)	1014·4	84	WNW	3	b	1017·7	+2	70	+2	W	1	-	b	*	-	86	63				
	Lisbon (9 a.m.)	1023·5	72	WNW	4	o	1021·2	0	68	+2	NW	1	-	o	5	-	77	66				
	Gibraltar							*					*									
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1014·7	0	77	+2	NW	4	-	c	2	-	86	72				
	Azores (Horta, 8 a.m.)	1028·2	*	NE	5	b	1025·6	+1	70	-3	-	0	*	b	2	-	79	70				
	Madeira (Funchal)	1023·4	76	NE	2	b	1022·7	0	68	-2	NE	2		bc	2	-	75	66				

RAINFALL.

Equivalents of Millimetres in Inches.

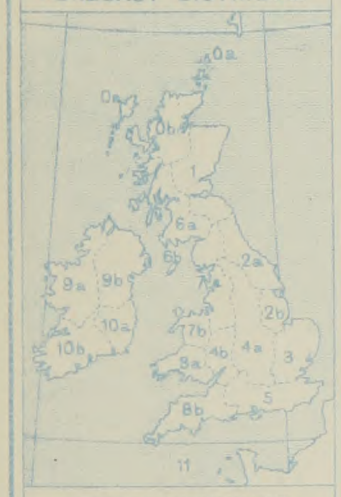
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

0 {a b} 1 — Wind backing to South-West or South, light; fair generally, then some rain or showers; moderate temperature.

2 {a b} 3 / 4 {a b} 5 — Wind light, backing to South-West or South by night or morning; fair or bright to-day; becoming unsettled again to-morrow; moderate temperature.

6 {a b} — Same as Nos 0 and 1.

7 {a b} 8 {a b} — Wind backing to Southward, light to moderate; fair then some rain or showers; cool.

9 {a b} 10 {a b} — Southerly and South-Westerly winds, light or moderate; fair, then much cloud and some rain; cool.

Western Channel and Bay 11 — South-Westerly and Southerly winds, light or moderate; sea moderate or slight; fair to rainy or showery.

FURTHER OUTLOOK.

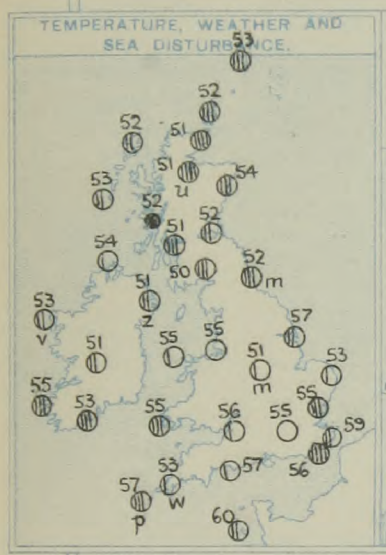
R. G. K. LEMPFERT, Superintendant, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SUNDAY, 25th JULY, 1915.

GENERAL INFERENCE.

The fall of the barometer in the west and south-west will probably extend to the northward and eastward.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

LOW

1005cb

101cb.

HIGH

29.68in.

29.83in.

55°

60°

Barometer falling

101.5cb

102cb

102.5cb

30.27in.

30.12in.

Normal Temperature of the Sea

Below 50° | 50-60° | 60-70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Sunday 25th July, 1915.

REPORTS FOR YESTERDAY.

24th July 1915

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1019.4	66	NW	2	b	1020.8	0	66	+3	E	2	SW	o	*	–	72	61
Lisbon	1021.3	73	NNW	4	b	1022.5	+2	66	0	WNW	2	–	b	2	–	79	64
Horta	*	*	*	*	*	1028.3	0	78	+4	NNE	4	*	o	2	1	77	69

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	14	62	49	bc r	bc	6.0
	Banff	1	61	52	b	b.o	7.5
	Carnoustie	5	60	50	o.ep	bc.ep	1.1
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	64	50	c.bc	bc.c	2.9
	Skegness	0.2	64	49	bep	tp.o	4.4
Eng. N.W.	Morecambe						
	Blackpool						
	Southport	–	62	55	bc.o.bc	bc.b.bc	8.5
Midlands.	Buxton	2	62	54	bc	bc	5.1
	Leamington Spa	9	64	51	o.cr	o.cr	2.4
	Malvern						
	Ross-on-Wye	21	67	53	c.bc	c.br	1.3
Wales.	Rhyl	–	63	53	bc.c	bc.b	7.4
	Colwyn Bay						
	Llandudno						
	Aberystwyth	1	61	57	r.c	b.bc	8.7
	Tenby	–	65	53	o.bc	bc	4.6
England. E.	Cromer	5	65	53	c.bc.c.o	c.o.tr.g	3.4
	Lowestoft						
	Felixstowe	3	64	54	bc	op	5.4
	Walton-on-Naze	2	64	53	bc	bc.c.op	6.1
	Southend-on-Sea	5	70	54	b.bc.b	b.tr.c	7.4
England. S.E.	Tunbridge Wells	1	65	53	bc.p.c	tp.c	4.3
	Margate	5	66	53	b.bc.r	c.bc.c	5.2
	Ramsgate	–	64	56	b.bc	b	9.0
	Hastings						
	Bexhill-on-Sea	–	63	57	c.b	bc	10.6
	Eastbourne	0.3	64	57	b	b	9.6
	Seaford	1	63	57	or.bc	bc	9.3
	Brighton	1	65	58	c.bc	bc	8.6
	Worthing	0.3	66	57	bc	bc r.bc	9.2
	Littlehampton	–	65	59	bc	b.bc	9.0
	Bognor	0.4	64	56	bc.b	bc.o.bc	8.0
	Southsea						
	Bournemouth	12	66	54	cr	c	7.0
England. S.W.	Weymouth	–	67	55	o.bc	bc.c	8.5
	Torquay	2	64	55	o.cp	p.c.bc	3.9
	Paignton	7	64	54	bcp	bc	†4.8
	Falmouth	–	64	53	bcq	b.bcq	7.9
	Penzance	–	68	55	c	bc.b	8.0
	Newquay	2	62	55	c.b	b r	9.0
	Ilfracombe	–	62	57	c.bc.b	b.bc	8.2
	Weston-super-Mare						

† to sunset

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	89	74	7.6	74	53	49	2	c	str.p.op	op.c
City (Bunhill Row)	*	*	8.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	88	80	7.4	69	53	51	1	o.d	r.o.c	c.bc
Camden Sq. (Brit. Rainfall)	56 (1 p.m.)	68	5.6	72	53	52	1	b	bc.c	*
Hampstead (Reservoir)	*	51	5.7	68	50	37	1	c.o	c.slp.bc	c
Richmond Park	*	*	5.6							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	84	66	6.6							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1453 Joules	25.6 Milliwatts.	83 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	1	63	51	48	c.b.o	op.c	cp.b	*
Darwen to 9 p.m.	0.2	64	52	50	c.ow	c.b	bc	5.9
Manchester ,,	–	66	52	*	bc.o	o.c	c.bc	7.1
Birmingham ,,	2	63	49	45	*	cr	o	0.5
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	18	64	66	51	bc.c	cr.c.r	cr.c	3.2
Plymouth ,,	3	68	54	52	bcw	bcp	c.b	6.5
S. Kensington (Museum Grounds to 6 p.m.)	2	69	53	46	bc.c	c.o	str.o.pc	*

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

25th & 26th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.3 / 4.4	11.59 / 11.59	7.54 / 7.53
Greenwich	4.14 / 4.16	12.6 / 12.6	7.55 / 7.56
Wick	3.49 / 3.51	12.18 / 12.18	8.47 / 8.46
Valencia	4.54 / 4.55	12.47 / 12.47	8.41 / 8.40

NOTES ON YESTERDAY'S WEATHER.

The maximum temperature was again low for the time of year; below 65° in most places. Rain fell at most stations; 15 mm. at Great Yarmouth and 20 mm. at Bath, and sharp thunderstorms occurred locally. Bright sunshine varied considerably in the different districts.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 207. Monday, 26th July, 1915.

DATE	STATIONS.	YESTERDAY EVENING. Baron. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.				‡		°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1005·7	51	NNE	4	cm	1004·8	0	51	-2	S	2	-	m	2	?	54	49	c	cm. or	or. bcg	Hours. *
	Deerness ...	1004·7	51	N	3	or	1004·7	*	53	+1	WNW	3	NW	o	1	7	58	50	c.o	or	r o	0·5
	Stornoway ...	1005·2	55	SE	2	cp	1005·6	+1	58	+3	NE	1	-	bc	1	2	60	48	bcp	bc. cp	b.bc	5·1
	Castlebay (Barra Isd.)	1004·6	56	SE	3	c	1004·4	0	54	+1	ESE	3	-	o	3	Trace	58	50	bc	c	c cp. o	*
	Glasgow ...	1005·0	58	W	2	c	1006·6	+2	51	0	SE	2	SW	c	*	0·1	61	42	c.o cdp	cdp	bc.b.bc	8·2
	Eskdalemuir ...	1005·8	54	S	4	c	1007·6	+1	46	-4	-	o	-	o	*	3	58	36	cp	cgp	c.bc	7·7
	Malin Head ...	1004·6	53	SE	2	cp	1004·5	+1	53	-1	S	3	S	bc	2	5	59	49	bcp	bcp	bc	5·0
	Blacksod Point	1004·6	57	WSW	3	bc	1003·0	-1	53	0	SE	2	-	bc	2	1	60	50	bcr	bc	bcp bc	*
	Valencia ...	1006·9	59	WSW	3	c	1003·5	-3	53	-2	S	3	SW	p	3	5	62	52	cp.c	c	c bcp	10·1
	Roche's Point	1007·6	57	WSW	4	c	1007·2	*	56	+3	S	2	SW	bc	3	2	61	50	cp	cgtp.c	cgp.bc	*
	Birr Castle ...	1005·9	58	WSW	1	c	1006·2	*	52	+1	WSW	1	-	b	*	2	63	47	cp	cp	bc.b	9·2
	Donaghadee ...	1005·0	58	SSW	4	bcg	1005·6	+2	52	+1	SSW	2	S	cm	2	-	61	50	*	bcg	cm.p.cm	*
	Liverpool (Bidston)	1007·0	61	WNW	1	b	1007·6	+1	54	-1	SSW	1	S	bc	1	-	63	52	b	b	bc	14·2
	Holyhead ...	1007·0	58	SW	4	cgr	1007·3	+2	56	+1	SW	3	-	bg	2	-	61	53	b.bc.c	bc.c	cp.o.bc	12·6
	Pembroke (St. Ann's)	1009·5	57	WSW	3	c	1008·4	0	57	+2	W	2	ME	bc	2	1	60	48	c	b.c	c	7·3
	Scilly (St. Mary's)	1009·0	56	-	0	bc	1009·8	+1	57	0	W	2	W	bc	3	5	63	53	c.bc	bc cp	bcp.oc	9·0
	Falmouth ...	1008·6	61	SW	3	bc	1010·2	+2	57	+4	SW	1	-	bw	2	-	65	51	bc	bcp	bw	11·6
	Jersey (St. Aubin)	1012·0	57	WSW	3	o	1012·3	*	59	-1	WSW	3	W	bc	3	1·0	64	55	c o	cp o	p.or.bc	3·7
	Portland Bill ...	1009·2	58	SW	4	c	1010·0	+1	57	0	W	3	-	b	3	0·2	60	54	bc	c	bc.b	*
	Dungeness ...	1009·8	60	SW	4	b	1010·5	+2	57	+1	SW	3	SW	c	3	9	64	53	c.c.bc	bc.b	bc org.	*
	Dover	1009·2	60	SW	5	b	1010·9	0	59	0	SW	3	W	bc	2	15	63	51	b bc.c	cpt.b	b bc.bc	9·2
	Wick	1005·0	52	N	1	o	1005·5	+2	54	+3	WNW	1	-	bc	1	3	56	48	cm	cmp	cmp bc	*
	Nairn	1004·6	59	-	0	c	1005·9	*	51	*	-	0	-	bc	0	3	60	48	r.p.bc	bcg.c	u cg	3·7
	Aberdeen ...	1004·9	52	WNW	2	r	1006·4	+2	52	-2	-	0	-	bm	1	10	60	44	c ou tp	cbr	o.c.r mw	3·8
	Leith	1004·3	60	WNW	3	bc	1006·3	+1	54	+2	ESE	2	-	bc	*	-	64	42	bc.c	c bc	bc	*
	Tynemouth ...	1005·3	62	NW	2	bcm	1007·4	0	50	-2	W	1	-	bcm	2	-	65	46	bcm	bcm	bcm	*
	Spurn Head ...	1007·4	61	W	3	c	1007·4	0	56	-1	W	3	-	cm	3	-	69	53	bc	bc	c	9·6
	Yarmouth ...	1008·8	61	SSW	2	cp	1009·8	+1	55	+2	W	2	-	c	3	2	65	53	bcp	bcp	p c	8·4
	Clacton-on-Sea	1009·2	60	WNW	2	c	1009·8	+1	57	+2	W	2	W	bc	2	*	67	55	c.bc	bc.c	c.bc cp	8·4
	Nottingham ...	1007·4	57	S	1	c	1009·9	*	52	+1	SW	1	-	bm	*	6	67	47	bcpt.c	cp	cm	7·5
	Bath	1009·5	57	SW	1	o	1009·7	*	56	-1	W	1	-	b	*	*	66	48	b.bcp.o	c mp	o.c.bc.b	4·0
	Sth Farnborough	1008·5	58	SW	2	c	1010·3	+3	55	+1	WSW	2	W	bc	*	4	68	48	b.bc	cptl.	c bc.b	7·9
	London (Kew Obsy.)	1009·2	60	SW	2	bcu	1010·5	+4	54	-1	WNW	1	W	bcm	*	7	66	51	b.bcr.cpcm	cmcgtlr.bcm	bcm.mc.bc	6·7
NORTHERN EUROPE.	Spitsbergen ...	1009·1	41	W	2	b	1011·9	0	39	0	NW	2	*	b	*	*	41	32				
	Vardö	1011·1	61	-	0	b	1013·5	0	61	-2	SE	2	-	b	1	*	66	57				
	Bodö	1005·1	59	-	0	b	1004·4	+5	54	-1	SW	2	-	c	2	1	59	54				
	Christiansund	1005·2	55	NE	2	o	1007·4	+1	57	+2	NE	2	-	c	2	Trace	59	55				
	Skudesnaes ...	1005·1	61	-	0	b	1008·6	+3	61	+2	S	3	-	b	2	-	63	55				
	Færder (X'tania Fjord)	1005·0	61	SW	4	bc	1007·0	+1	59	0	SSW	2	-	o	2	-	63	57				
	The Scaw (Skagen)	1006·4	63	W	1	c	1008·0	+2	59	+2	W	1	W	bc	1	-	66	52				
	Blaavands Huk	1007·7	63	WNW	2	b	1009·5	0	61	0	-	0	-	b	0	-	63	54				
	Haparanda ...	1010·6	77	SE	2	b	1009·3	-1	73	+7	SE	4	-	o	*	-	82	61				
	Hernösand ...	1008·6	64	SE	2	bc	1005·6	+1	59	-4	-	0	-	f	*	-	70	57				
	Stockholm ...	1004·3	64	W	2	c	1005·6	0	61	-3	NNW	2	-	o	*	5	68	54				
	Wisby	1006·6	61	W	2	bc	1005·7	+1	59	+2	NNE	2	-	r	*	3	63	57				
	Karlstad	1004·6	64	S	2	b	1008·0	+1	57	0	W	2	-	o	*	Trace	68	50				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1008·8	63	W	1	bc	1009·3	+1	59	0	SW	2	-	c	1	-	63	50				
	C. Gris Nez ...	1010·3	60	WSW	4	b	1010·6	+2	54	-3	SW	4	*	bc	2	11	63	52				
	La Hève	1011·0	61	-	0	o	1012·3	*	55	-4	WSW	4	*	o	4	5	66	52				
	Ushant	1010·6	56	W	4	c	1011·9	*	58	+1	WNW	3	*	b	3	-	61	52				
	Brest (St. Mathieu)	1013·1	58	SSW	3	r	1013·5	+2	59	+1	W	1	*	b	2	-	63	57				
	Rochefort (Ile d'Aix)	1014·0	63	WSW	3	r	1013·0	+1	60	-1	SE	3	*	r	*	4	70	59				
	Biarritz	1014·3	68	NNE	3	o	1014·9	+1	68	+6	WSW	5	*	o	3	-	75	62				
	Paris	1012·3	64	N	1	o	1013·2	+2	63	+4	SSW	2	-	c	*	-	72	54				
	Belfort	1015·2	59	WSW	4	c	1016·4	*	54	-1	WSW	2	*	o	*	1	65	53				
	Lyons	1014·7	66	NNE	2	c	1015·7	*	62	+3	E	1	*	o	*	-	72	58				
	Nice	1008·0	72	SW	3	b	1016·6	o	69	-1	W	2	o	b	3	-	84	63				
	Perpignan ...	1014·6	70	-	0	o	1014·9	+5	72	+3	-	0	-	b	*	-	82	57				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1014·9	70	SW	6	o	1016·6	+1	64	+3	W	3	-	o	3	3	73	61				
	Madrid (8 a.m.)	1012·4	84	W	2	b	1017·1	+1	70	0	SW	1	-	b	*	-	86	63				
	Lisbon (9 a.m.)	1020·0	73	NNW	4	b	1018·7	0	64	-4	N	1	-	o	3	-	77	64				
	Gibraltar	1017·3	78	W	6	b	1015·9	*	70		NW	4	*	b	3	-	84	70				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1015·7	+2	73	+2	NNW	2	-	b	1	-	84	73				
	Azores (Horta, 8 a.m.)	1024·6	*	NNE	4	b	1017·9	-3	72	+2	WSW	5	*	o	3	-	82	70				
	Madeira (Funchal)	1020·3	75	NE	3	bc	1018·9	0	70	+2	E	2	-	b	3	-	75	66				

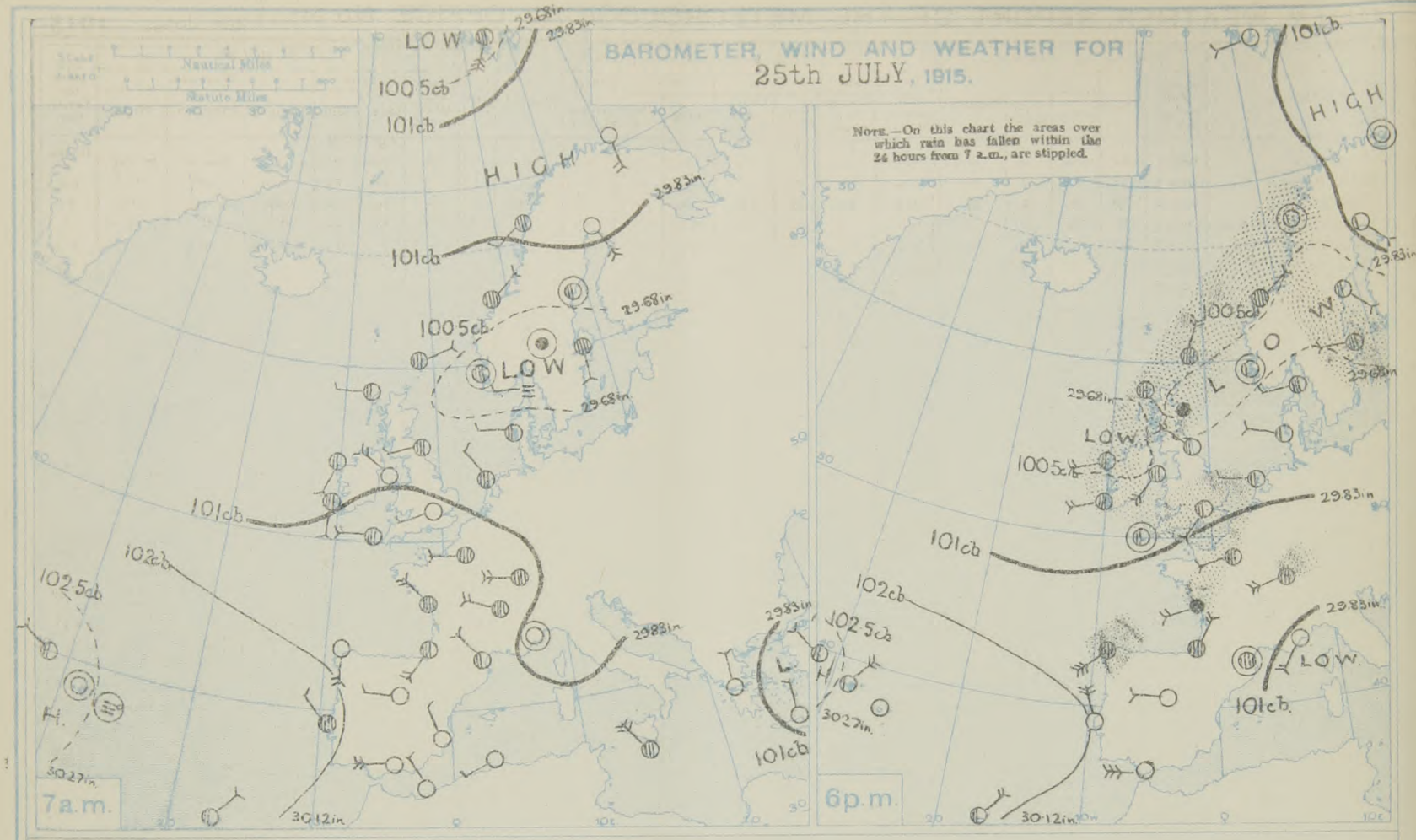
RAINFALL.

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 25th JULY, 1915.



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 Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued

0	a, b	Light variable to Southerly and Easterly winds;
1		then some showers or steady rain; cool.
2	a, b	Wind Westerly backing to South-West or South,
3		light or moderate; fair, then some showers, thunder
4	a, b	locally; moderately cool.
5		
6	a, b	Wind between South and East, light to moderate;
		showery or rainy; cool.
7	a, b	Wind between South and South-West, light to
8	a, b	moderate; fair, then showery or rainy, thunder locally;
		rather cool.
9	a, b	Southerly and South-Westerly winds, light to
10	a, b	moderate, fresh locally; changeable, some showers or
		steady rain; rather cool.
Western Channel and Bay	11	South-Westerly and Southerly winds, light to moderate; sea slight; fair to showery or rainy; some fog.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m., MONDAY, 26th JULY, 1915.

GENERAL INFERENCE.

Further depressions will appear over these Islands from the Atlantic.

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 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea
Below 50° | 50°–60° | 60°–70° | Above 70°
Scale of Tints for JULY.

101cb
100·5cb
100·5cb
101·5cb
101cb
101·5cb
1005cb
101·5cb
29·83in.
29·68in
29·68in
29·68in
29·97in
29·97in
29·97in.
HIGH
LOW
Barometer
LOW
rising
LOW
Bar. falling
55°
generally
HIGH
Bar falling
H I G H

PILOT BALLOON ASCENTS for the PAST WEEK.

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

Heights in Kilometres	Station Date & Hour	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		Beveon 20th	12h.	S. Farnborough 21st	7h-10m	S. Farnborough 21st	12h.	S. Farnborough 24th	11h-30m.												
3								+6	−1												
2		+15	−1	+9	−3			+3	+2												
1		+18	+4	+10	−4	+12	+2	+4	+4												
0·5		+16	+2	+6	−2	+7	+1	+2	+2												
0		+7	+3																		

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	5	60	46	b.p.bc	b.	7·2
	Banff	M	54	50	r	p.o.c	0·0
	Carnoustie	5	62	44	bc.t	bc	5·3
	St. Andrews				*	*	
Eng. N.E.	Harrogate	–	63	48	bc.b	b	11·7
	Skegness	2	65	49	o.bcp	p.o	7·2
Eng. N.W.	Morecambe						
	Blackpool	–	62	54	c.	b	10·2
	Southport	–	61	54	b.bc.b	b.bc.b	12·9
Midlands.	Buxton						
	Leamington Spa	2	66	48	bcp	cp	7·6
	Malvern	16	64	51	bcq	cq	6·0
	Ross-on-Wye						
Wales.	Rhyl	–	61	49	b	bc	11·5
	Colwyn Bay	–	62	52	b	bc	10·5
	Llandudno						
	Aberystwyth	2	61	55	r.o.c	c.bc	9·5
	Tenby						
England. E.	Cromer						
	Lowestoft	1	67	53	c.bc.c	cp	8·1
	Felixstowe	1	66	53	b	bc	7·7
	Walton-on-Naze	4	64	52	bc	cp.bc	6·7
	Southend-on-Sea	1	71	54	b	bc.t.c	9·6
England. S.E.	Tunbridge Wells	2	67	51	b.c.p.t.r	b.bc	10·2
	Margate	·01	66	56	bc	bc	8·0
	Ramsgate	–	68	53	bc	o.t.p.bc	7·1
	Hastings	5	65	55	bc.b	b	11·4
	Bexhill-on-Sea	–	64	53	bc.b	bc	9·3
	Eastbourne	–	64	56	b	b	11·6
	Seaford						
	Brighton	–	65	55	bc	bc	12·1
	Worthing	–	66	54	b.bc	b.bc	12·1
	Littlehampton	–	63	54	b	b	12·0
	Bognor	–	63	52	bc	bc	12·3
	Southsea	–	66	51	b	b	12·0
	Bournemouth	–	64	48	c	c	11·0
	Weymouth						
	Torquay	0·3	65	51	c.bc	p.c.bc	9·7
	Paignton						
	Falmouth	–	65	51	bc	bq	11·1
	Penzance						
	Newquay	1	62	54	r.c.p.t	b	10·5
	Ilfracombe	3	62	55	b.c.p.bc	bc	9·0
	Weston-super-Mare	3	64	53	b.bc.b	c.r.b	6·5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 a.m. To-day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	94	73	7·3	71	50	44	3	b.bc	bc.cp	cp.bc
City (Bunhill Row)	*	*	6·6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	94	82	6·6	68	52	?	4	bcp	ou	cp.bc
Camden Sq. (Brit. Rainfall)	–	74	5·5	70	52	51	2	–	–	*
Hampstead (Reservoir)	*	81	6·9	65	49	38	6	bc.or	bc	bc
Richmond Park	*	*	7·1							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	–	82	6·4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1559 Joules	27·5 Milliwatts.	86 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	7	61	47	44	bc.	ou	gpt	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	1	66	51	47	b.bc	c.bc.or	cp.c	8·1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	3	67	58	49	bc.o.bc	bc.b.c	t.cp	*

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

26th 27th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4 44 / 4 43	11 59 / 12 0	7 53 / 7 52
Greenwich	4 46 / 4 47	12 0 / 12 0	7 56 / 7 55
Wick	3 51 / 3 53	12 18 / 12 18	8 45 / 8 43
Valencia	4 55 / 4 56	12 47 / 12 47	8 40 / 8 39

NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 65° over the greater part of the Kingdom, but touched 71° at Southend-on-Sea. Showers fell very generally, accompanied by thunder and lightning in several localities. Bright sunshine was abundant in most districts.

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 208 { Tuesday, 27th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1007·3	54	S	3	bc	1009·0	0	55	+4	SSE	2	3	bc	2	3	57	50	f bc	bc	bcw	1
	Deerness ...	1007·1	55	S	3	bc	1007·4	»	55	+2	ESE	3	3	b	2	Trace	60	51	o bc	bc. b bc	bcw. b	10·1
	Stornoway ...	1006·8	58	ENE	3	bc	1006·8	0	55	0	NE	4	-	c	4	-	63	48	bc. b	b	bc. c	12·7
	Castlebay (Barra Isd.)	1005·1	58	E	3	bc	1005·5	0	55	+1	NE	3	-	o	3	1	60	51	o. bc	bc	bc. o	13·6
	Glasgow ...	1006·5	57	E	1	6pm	1006·2	0	50	-1	E	2	S	o	*	14	61	48	c. cpt. c	cfp. ot	thr. ow	2·4
	Eskdalemuir ...	1007·3	57	SSW	4	bc	1006·4	*	49	+3	-	0	-	o	*	8	62	44	o. c	bc	c. c. or	8·2
	Malin Head ...	1003·4	54	ESE	3	cp	1003·7	0	57	+4	NNE	2	-	bc	2	5	60	46	cp	c thr	bc	8·2
	Blacksod Point	1000·3	54	SE	4	bc	1003·4	+3	50	-3	NNE	3	NE	bc	3	0·3	58	46	cp	bcp	bc	*
	Valencia ...	1003·4	58	SW	3	c	1004·1	+3	56	+3	NW	3	NW	bc	4	14	61	50	c. b	bcrp	pr. cp	7·5
	Roche's Point	1005·7	58	SW	3	bc	1003·9	*	53	-3	SW	4	W	c	4	6	59	50	ogr. c	c. bc	b. bc. cp	*
	Birr Castle ...	1003·7	56	SE	2	c	1004·8	*	51	-1	SE	1	-	c	*	5	62	46	cp	cpt	c	5·6
	Donaghadee ...	1004·6	56	SSW	4	6pm	1003·9	+1	52	0	WBW	2	-	fe	2	0·1	63	50	bcg	bcm. otp	cg. bcw	*
	Liverpool (Bidston)	1007·4	59	-	0	0	1006·0	-1	55	+1	SE	1	S	cg	2	4	67	50	b	bc. otc	or	7·5
	Holyhead ...	1006·2	58	SW	5	og	1004·4	-1	56	0	SW	3	S	c	2	1	62	52	bc	cgp	cgp. bm	9·2
	Pembroke (St. Ann's)	1007·1	55	SSW	6	r	1005·3	-3	56	-1	SW	4	W	bc	4	7	60	56	b	cgp	qr	7·8
	Scilly (St. Mary's)	1007·8	57	WSW	4	cgp	1007·3	0	55	-2	W	4	W	b	5	3	63	52	bc	cq. p	bcq. b	6·6
	Falmouth ...	1009·0	60	SSW	3	c	1007·6	0	57	0	SW	3	-	cp	3	1	64	50	bc. c	c. bc	cp	10·0
	Jersey (St. Aubin)	1012·1	61	S	3	c	1010·1	*	60	+1	SW	3	SW	c	3	1	65	57	bc	c. cp. c	bc. cp. c	9·8
	Portland Bill ...	1011·2	59	SW	4	bc	1008·3	-1	57	0	SW	4	SW	c	4	14	62	55	b. bc	bc	bc. cr	*
	Dungeness ...	1012·1	60	SW	3	bc	1010·3	0	62	+5	-	0	-	bc	0	-	64	56	c. bc	bc	bc	*
	Dover	1012·2	58	SSW	3	bc	1009·5	?	61	+2	SSE	1	-	bc	2	-	65	52	bc. c	c. bc	bc. b. bc	11·3
	Wick	1007·5	55	-	0	c	1006·7	0	54	0	SE	1	-	bc	2	0·2	57	48	bc	bcm	bcmw	*
	Nairn	1006·4	54	SSE	1	cru	1006·6	*	52	+1	-	0	-	bm	0	6	62	42	bc. cg	c thr	p. cgw	9·1
	Aberdeen ...	1007·7	58	SSE	4	b	1006·8	0	52	0	-	0	-	cfp	2	0·1	63	47	b	b	b. bc. of	13·5
	Leith	1006·6	58	ENE	1	r	1006·2	0	53	-1	ESE	2	-	o	*	8	60	51	c	cp	c	*
	Tynemouth ...	1006·9	59	SSE	3	cmq	1006·9	-1	54	+4	ESE	1	-	cmp	2	1	63	50	bc	cmp	cmp	*
	Spurn Head ...	1009·4	60	SSW	2	bc	1008·4	0	57	+1	SW	4	-	c	4	1	66	53	bc	bc. pl	cblp	9·9
	Yarmouth ...	1011·1	64	SSW	3	bc	1010·0	-1	57	+2	SW	2	SW	bc	2	Trace	69	52	bc	bcp	c. bc	8·8
	Clacton-on-Sea	1010·8	64	SSW	3	bc	1009·2	-2	60	+3	SSE	2	-	c	2	-	65	57	bc	bc	bc. c	11·0
	Nottingham ...	1008·5	63	SW	1	b	1007·5	*	54	+2	SSW	1	SW	o	*	1	69	52	bc. c	c b	bc c	11·1
	Bath	1009·7	64	SW	3	bc	1007·8	*	57	+2	SW	1	SW	o	*	3	68	54	b. bc. cp	c. bc	bc. or. o	11·2
	Sth Farnborough	1010·1	63	SW	4	bc	1008·1	-2	55	0	SSE	2	-	oz	*	1	67	50	b	bc	bc. o. c	11·6
	London (Kew Obsy.)	1011·1	67	SW	3	bc	1008·6	-1	57	+3	SSW	1	-	o	*	0·4	68	50	bcmbc	c. bc. c. bc	bc. b. bc. or. o	11·2
NORTHERN EUROPE.	Spitsbergen ...	1009·5	36	NW	2	r	1008·8	+2	41	+2	S	4	*	bc	*	*	43	36				
	Vardö	1013·5	61	ESE	1	b	1016·4	+3	59	-2	N	3	-	b	2	*	63	55				
	Bodö	1013·5	52	WNW	2	o	1003·1	-1	55	+1	-	0	-	c	1	2	54	48				
	Christiansund	1010·0	59	N	2	c	1009·6	+1	54	-3	NE	2	-	o	2	-	64	54				
	Skudesnaes ..	1006·3	61	-	0	6	1009·6	0	59	-2	N	2	-	b	1	-	61	48				
	Færder (X'ianiaFjord)	1007·1	61	SW	2	o	1005·7	0	59	0	N	1	E	c	2	-	63	57				
	The Scaw (Skagen)	1009·0	59	W	3	bc	1008·0	0	61	+2	W	4	-	b	4	-	64	56				
	Blaavands Huk	1011·3	63	WNW	1	b	1011·4	0	59	-2	WNW	2	W	bc	1	1	64	54				
	Haparanda ...	1008·3	81	-	0	bc	1010·7	0	73	0	E	4	S	bc	*	-	86	63				
	Hernösand ...	1006·2	63	N	2	c	1002·7	0	64	+5	NE	2	SE	bc	*	7	66	59				
	Stockholm ...	1003·0	59	NW	2	o	1001·0	+2	57	-4	W	4	-	o	*	17	62	54				
	Wisby	1004·8	59	NW	6	r	1005·2	+2	59	0	WSW	6	E	b	5	13	59	57				
	Karlstad	1006·7	63	-	0	0	1004·8	0	59	+2	-	0	-	o	*	-	66	54				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1011·9	61	WSW	1	bc	1010·6	-2	61	+2	SE	1	-	c	1	3	63	48				
	C. Gris Nez ...	1012·3	61	SSW	3	bc	1009·2	-2	60	+6	S	2	*	bc	0	1	63	52				
	La Hève	1013·2	62	-	0	c	1009·6	*	59	+4	WSW	3	*	o	3	-	68	52				
	Ushant	1011·9	59	SW	4	o	1009·9	*	59	+1	WNW	4	*	b	3	-	64	54				
	Brest (St. Mathieu)	1012·7	59	SSW	4	o	1011·3	+1	59	0	NW	3	*	b	3	1	68	57				
	Rochefort (Ile d'Aix)	1014·1	64	WSW	3	o	1012·8	+2	60	0	WSW	3	*	o	*	6	72	59				
	Biarritz	1013·3	66	N	3	o	1013·9	+3	66	-2	WNW	3	*	c	2	-	75	64				
	Paris	1013·0	68	S	1	o	1011·1	*	61	-2	SSW	1	-	o	*	1	73	57				
	Belfort	1016·2	66	-	0	c	1013·5	*	64	+10	-	0	*	c	*	-	72	54				
	Lyons	1014·3	70	-	0	bc	1012·0	*	63	+1	E	1	*	c	*	1	78	59				
	Nice	1012·4	70	-	0	b	1017·5	+2	69	0	-	0	*	b	3	-	88	61				
	Perpignan ...	1014·4	75	-	0	bc	1012·4	0	75	+3	N	2	SW	b	*	-	86	59				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1015·3	59	NNE	1	r	1016·2	+2	61	-3	WSW	1	-	o	3	23	64	57				
	Madrid (8 a.m.)	1011·4	86	WSW	2	b	1014·1	+1	73	+3	-	0	-	b	*	-	90	64				
	Lisbon (9 a.m.)	1016·1	75	NW	3	b	1014·4	+2	68	+4	NNW	1	-	o	5	-	81	64				
	Gibraltar	1013·5	74	E	1	b	1012·5	*	72	+2	E	5	*	b	1	-	85	69				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1016·6	+4	79	0	NE	3	E	b	2	-	84	73				
	Azores (Horta, 8 a.m.)	1017·0	*	NE	7	c	1023·9	+2	68	-4	NE	5	*	b	3	5	79	68				
	Madeira (Funchal)	1015·9	73	E	2	b	1014·1	+1	68	-2	N	2	-	o	2	-	77	68				

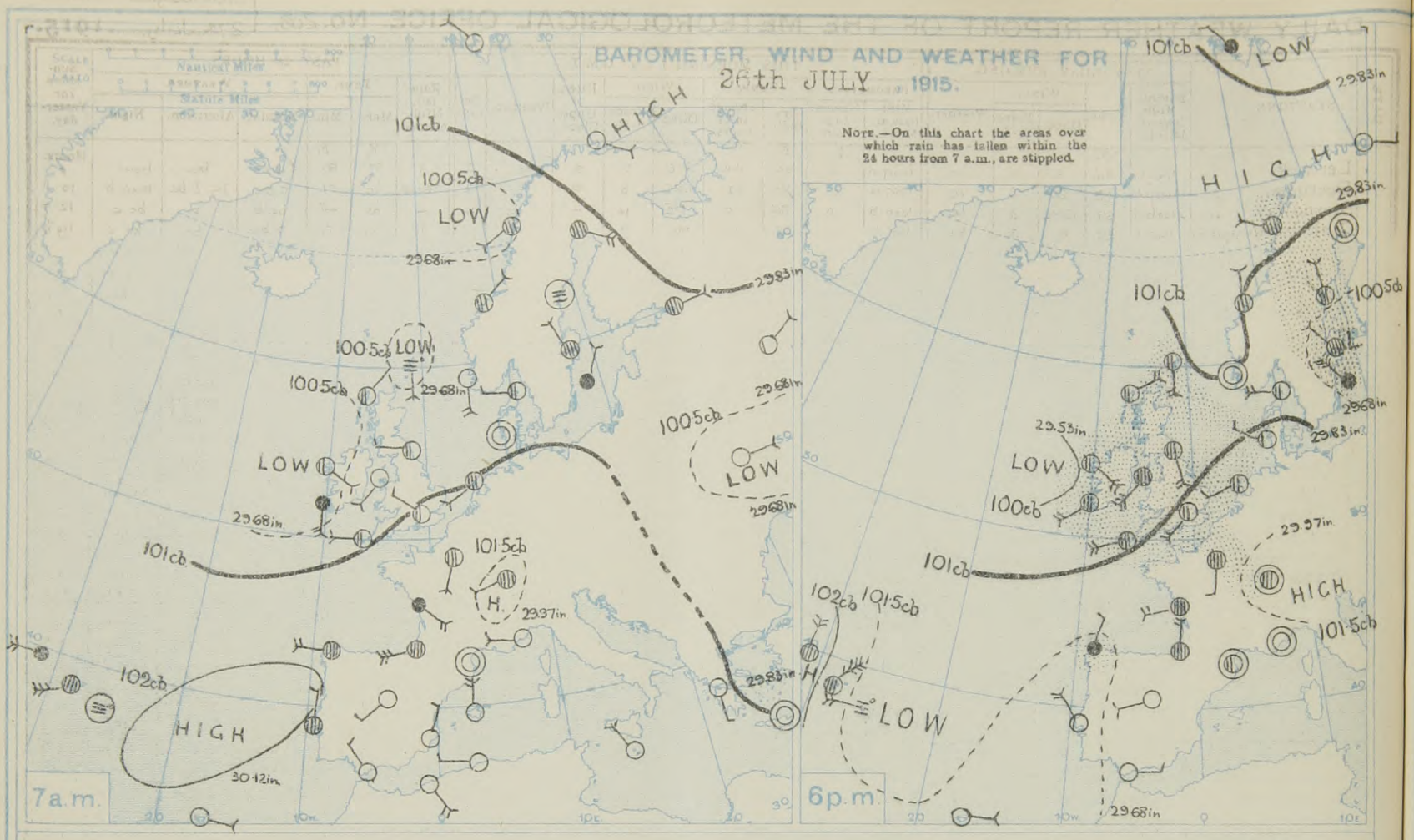
South Farnborough
Pilot Balloon Ascent at about 7 a.m.
1500 feet S 20 mph.

RAINFALL.

Equivalents of Millimetres. In Inches.

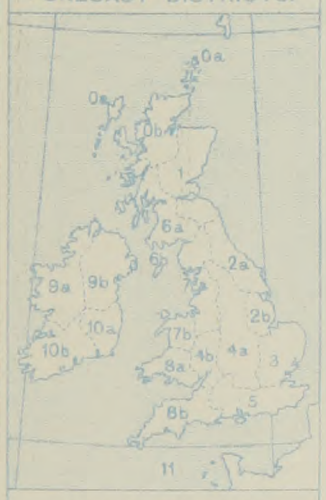
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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



FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

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

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

No Warnings Issued.

Western Channel and Bay 11

0 a, b; 1 — Light to moderate breezes between East and North; fair to dull, some rain, local thunder; moderate temperature.

2 a, b; 3; 4 a, b; 5 — Light to moderate Southerly to South-Westerly breezes, fair to dull, some rain, local thunder and mist; moderate temperature.

6 a, b — Same as Nos. 0 and 1.

7 a, b; 8 a, b — Same as Nos. 2 to 5.

9 a, b; 10 a, b — Light to moderate breezes between West and North; fair generally, some showers; moderate temperature.

11 — Light to moderate Westerly breezes; sea slight to moderate; mostly fair to fine, local showers and mist; moderate temperature.

FURTHER OUTLOOK.

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

SYNOPTIC CHART FOR 7 a.m. TUESDAY 27th JULY, 1915.

GENERAL INFERENCE.

The depression over central Ireland is spreading and moving slowly eastward, and it is likely to maintain the changeable 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. ⊤ₛ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

101cb 101·5cb. HIGH 29.97in. 100·5cb 70° 29.83in. 29·68in. 50° Barometer LOW rising 100·5cb. steady 29.68in. 29.83in. Bar. LOW rising Barometer 101cb. falling Barometer 29.97in 101·5cb. 102cb HIGH 101·5cb 60° rising 70° HIGH 30·12in. 29.97in.

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

Normal Temperature of the Sea
Below 50° 50°-60° 60°-70° Above 70°
Scale of Tints for JULY.

DAILY WEATHER REPORT. Tuesday, 27th July 1915.

REPORTS FOR YESTERDAY.

26th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall, Millimetres.	Temp. Max.	Temp. Min.
Sanguinaire	*	76	E	4	m	*	*	74	-	E	1	*	b	8	-	82	55
Petrograd	1009.1	72	E	2	o	1008.4	0	72		E	3	-	bc	*	91	84	70

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	18	61	43	f.t	b.t.b	3.0
	Banff	10	59	46	b.o.b.c.b	b.t.l.r	6.0
	Carnoustie	1	62	42	b	bc.c	11.2
	St. Andrews	1	64	40	*	*	9.2
Eng. N.E.	Harrogate	-	64	44	c.b.c	c.o.t	6.0
	Skegness	1	67	53	b	b.o	10.7
Eng. N.W.	Morecambe	1	64	46	p.bc.b	b.bc	8.1
	Blackpool	1	66	47	o.t.c.b	b.bc.c.o	8.1
	Southport	-	64	48	c.b.c	c.o.t.c.o	6.6
Midlands.	Buxton	6	63	41	b.v	b.c.r	8.1
	Leamington Spa	-	68	47	bc	bc	10.9
	Malvern	8	66	50	bc	b.c.c	6.0
	Ross-on-Wye	7	68	42	b.c.c	b.c.l.r	8.7
Wales.	Rhyl	10	62	47	bc	bc.o.c.p	8.2
	Colwyn Bay	-	65	52	bc	bc.o	6.4
	Llandudno	.	68	50	b	b.c.	6.2
	Aberystwyth	.	65	52	c.b.c	c.o	8.0
	Tenby	4	64	47	bc	bc.o.r	4.0
England. E.	Cromer	1	65	52	bc.o.bc	c.o.p.bc	6.3
	Lowestoft	-	67	52	bc.c	c.u	8.1
	Felixstowe	-	66	54	b.c	b.c	11.0
	Walton-on-Naze	3	65	53	bc	bc	11.1
	Southend-on-Sea	1	70	54	bc.b.bc	bc	10.2
England. S.E.	Tunbridge Wells	5	67	50	bc	bc	9.4
	Margate	3	67	52	bc	bc	9.8
	Ramsgate	6	64	52	b.c.o	b.c	10.0
	Hastings	4	64	52	bc.b	b	10.5
	Bexhill-on-Sea	4	62	54	c	c	10.0
	Eastbourne	5	64	53	b	b	11.8
	Seaford	4	64	55	b	b	10.6
	Brighton	9	64	55	c.bc	bc.c	11.1
	Worthing	5	66	53	b.bc	b.bc	12.2
	Littlehampton	4	63	52	b	b	11.0
	Bognor	1	62	53	b	b	11.5
	Southsea	.	66	54	b	b.	11.0
	Bournemouth	.	65	50	o.b.c	b.c	12.0
England. S.W.	Weymouth	-	66	53	b	b.b.c.3	10.7
	Torquay	-	66	51	bc.b	bc.	11.6
	Paignton						
	Falmouth	-	64	51	bc.c	c.bc	9.9
	Penzance	1	64	51	p.b	b.bc.c	10.7
	Newquay	-	64	50	bc	b.o.	10.2
	Ilfracombe	10	64	53	b.c.b	b.c.p.c	9.0
	Weston-super-Mare	4	65	50	b.p	p.bc.b	9.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	58	97	10.9	72	50	44	1	bc	bc.c	c.o.or
City (Bunhill Row)	*	*	10.8	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	63	91	10.3	69	53	?	4	bc	bc.b	bc.or
Camden Sq. (Brit. Rainfall)	48	94	9.6	72	51	50	2	b.bc	bc	*
Hampstead (Reservoir)	*	93	10.8	67	51	35	5	bc	bc.op	op.or
Richmond Park	*	*	11.5							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	52	89	10.6							

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1912 Joules	33.9 Milliwatts.	85 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.	Traca.	63	49	52	bc	bcp	or	*
Darwen to 9 p.m.								
Manchester ,,				*				
Birmingham ,,								
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	68	50	47	c.bc	bc	bc	12.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	69	53	47	c.bc	bc.c	c.bc	*

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

27th–28th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.5 / 4.46	11.59 / 11.59	7.52 / 7.51
Greenwich	4.17 / 4.18	12.6 / 12.6	7.55 / 7.54
Wick	3.53 / 3.53	12.18 / 12.18	8.43 / 8.41
Valencia	4.56 / 4.57	12.47 / 12.47	8.39 / 8.38

NOTES ON YESTERDAY'S WEATHER.

Low afternoon temperatures were genera., below 65° in many places. Rain fell nearly everywhere, 14 mm. at Glasgow and Valencia. Thunderstorms occurred in several districts. Sunshine ranged from 2½ hours at Glasgow to 13½ hours at Aberdeen.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 209

Wednesday, 28th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
								‡														Hours.
BRITISH ISLANDS.	Lerwick ...	1008·5	57	SE	3	bc	1008·2	0	55	0	NE	2	–	bc	4	–	60	51	bc	bc	bcw	3·9
	Deerness ...	1006·4	53	E	3	cma	1006·8	*	52	-3	–	0	–	or	0	5	58	51	b bc cm	mr 0	cmr	3·9
	Stornoway ...	1006·3	57	NNE	5	cq	1008·1	+1	51	-4	N	4	–	or	4	14	61	51	c	cq	cpl. or	4·8
	Castlebay (Barra Isd.)	1006·1	56	N	3	0	1009·7	+2	55	0	NW	3	–	c	3	0·4	59	52	0.c.0	0.c.0p.0	cp.c	0·7
	Glasgow ...	1004·6	56	ESE	1	c	1008·1	+3	53	+3	WNW	3	M	c	*	0·1	62	46	cp cbl	ct.0.cq	bc.bm.c	3·9
	Eskdalemuir ...	1004·3	55	NE	4	bc	1008·2	+2	51	+2	W	3	–	0	*	3	62	39	0.ctq	q ctp	bc.c.0	3·8
	Malin Head ...	1006·0	58	NNE	3	bc	1010·7	+3	54	-3	WNW	5	NW	c	4	–	60	53	bc	bc	cq	12·7
	Blacksod Point	1008·2	56	NW	4	cp	1014·2	+2	54	-4	W	3	NW	cz	3	0·4	59	49	bc	bcp	bc.bcp	*
	Valencia ...	1010·7	59	NW	5	bc	1018·3	+4	57	+1	W	2	W	c	4	2	61	54	bcp	bw	bcp cp	10·6
	Roche's Point	1008·3	60	NW	5	bc	1017·9	*	54	+1	WNW	2	W	c	2	0·2	61	52	c	c.bc	bc.b.bc	*
	Birr Castle ...	1007·3	56	NNW	1	c	1015·3	*	51	0	W	1	–	c	*	2	62	48	cp	cp	c	5·4
	Donaghadee ...	1004·6	57	N	2	bcz	1010·6	+5	53	+1	NW	4	NW	bcz	3	–	61	51	bcz	bcz	bcw	*
	Liverpool (Bidston)	1004·2	55	WSW	1	0	1011·1	+5	55	0	W	4	W	bc	3	8	63	50	bcpt	bcpt	ovtl	4·8
	Holyhead ...	1005·7	57	N	3	ogp	1012·3	+4	55	-1	WNW	6	NW	bc	4	3	61	51	op.c.0p	r.op.c.0	o.cl.bc	3·1
	Pembroke (St. Ann's)	1005·0	57	W	6	†	1015·6	+4	55	-1	WNW	3	NW	cq	3	3	59	53	bc	cqp	bcq	9·5
	Scilly (St. Mary's)	1009·7	57	W	5	c	1018·4	+6	56	+1	WNW	4	W	c	5	4	61	53	cqp	cqp	cqp c	10·9
	Falmouth ...	1008·8	60	W	3	c	1018·0	+5	58	+1	W	3	–	b	3	1	63	52	bcqp	bcq	bw	12·5
	Jersey (St. Aubin)	1012·0	62	W	5	b	1019·3	*	59	-1	W	4	W	b	3	–	65	57	bc.b	b	b	10·6
	Portland Bill ...	1007·9	59	WSW	6	b	1015·8	+4	58	+1	W	5	–	b	4	–	61	55	bc	bc	c.bc	*
	Dungeness ...	1009·4	60	SW	4	bc	1013·9	+5	58	-4	SW	6	W	bc	5	–	63	56	bc.cp	bc	bc	*
	Dover	1009·1	59	WSW	5	b	1014·4	+3	57	-4	WSW	5	W	b	3	0·3	62	52	bc.c.bc	c.bc.b	b	10·0
	Wick	1007·0	52	NE	2	r	1006·1	+2	54	0	NE	2	–	m	2	9	57	51	bcm	omthr	or.om	*
	Nairn	1005·0	56	E	1	cm	1006·2	*	53	+1	N	1	–	ogum	1	7	57	49	d.cm	bcm.c	gmpr	0·1
	Aberdeen ...	1005·3	55	SSE	1	c	1006·1	+1	52	0	WNW	3	W	c	1	4	56	45	ogr.tr	otp.c	br.b.bc	0·0
	Leith	1004·2	60	NE	2	c	1007·5	+1	54	+1	W	3	–	b	*	1	61	49	op.c	cp	bc.c	*
	Tynemouth ...	1005·1	53	NNW	1	omthr	1007·6	+2	52	-2	WNW	2	–	b	3	4	60	48	bm	mthr	bm	3
	Spurn Head ...	1004·9	59	S	5	bc	1008·1	+4	56	-1	NW	?	–	omqp	5	1	64	54	bctl	bc	bcqp	3·2
	Yarmouth ...	1007·2	62	S	3	b	1009·7	+4	53	-4	WSW	3	W	o	4	14	64	51	bc.or	bc	othr.o	4·4
	Clacton-on-Sea	1007·2	65	SSW	4	bc	1011·5	+5	?55	-5	W	4	W	bc	4	5	66	53	c.or	o.c.bc	bc	8·5
	Nottingham ...	1005·7	53	W	3	c	1010·3	*	53	-1	W	4	W	mcl	*	2	66	50	o.c	ctlp	cp.bc	5·2
	Bath	1006·6	61	W	2	o	1014·6	*	57	0	W	2	–	b	*	4	66	50	o.bc tr	tr.o.c	c.op.bc	6·5
	Sth Farnborough	1007·2	63	SW	4	bc	?1014·3	+6	55	0	W	3	W	b	*	7	67	50	c.bc	bc	bcp.b	7·1
	London (Kew Obsy.)	1007·4	63	SW	4	bcu	1013·5	+6	56	-1	WSW	4	–	b	*	6	67	52	o.or ct.c	ct.bc b.bcu	bcu sub b	6·4
NORTHERN EUROPE.	Spitsbergen ...	1018·9	41	SSE	2	o	1021·2	+1	37	-4	N	4	*	o	*	*	45	36				
	Vardö	1019·3	54	N	1	b	1019·0	0	61	+2	–	0	–	b	1	*	61	54				
	Bodö	1005·7	72	E	4	bc	1006·7	+5	52	-3	W	4	–	o	2	–	72	50				
	Christiansund	1008·3	52	SW	2	0	1009·3	+2	54	0	–	0	–	bc	2	7	54	52				
	Skudesnaes ..	1007·4	59	WNW	4	b	1005·6	0	57	-2	SE	1	–	c	1	–	63	48				
	Færder (X'ianiaFjord)	1005·9	61	SW	5	b	1008·4	+2	59	0	SSE	1	–	o	2	–	63	57				
	The Scaw (Skagen)	1008·4	59	WSW	2	bc	1007·0	-1	61	0	ESE	2	–	o	2	–	64	52				
	Blaavands Huk	1009·7	63	SSW	1	0	1006·9	0	61	+2	SW	3	–	bc	2	1	66	54				
	Haparanda ...	1009·9	82	SE	2	b	1012·6	0	75	+2	SE	2	–	b	*	–	88	68				
	Hernösand ...	1002·7	63	–	0	0	1007·8	+5	57	-7	W	2	–	c	*	3	70	57				
	Stockholm ...	1005·7	64	WSW	2	0	1009·7	+1	61	+4	WNW	2	–	c	*	–	66	50				
	Wisby	1008·4	66	WSW	4	b	1011·1	0	66	+7	SW	2	S	b	2	–	68	55				
	Karlstad	1006·3	66	W	2	b	1009·9	+1	59	0	–	0	–	bc	*	–	70	56				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1007·5	59	S	3	c	1008·2	0	57	-4	SW	4	–	r	2	6	66	55				
	C. Gris Nez ...	1009·7	61	WSW	5	b	1013·1	+4	58	-2	W	7	*	b	6	3	64	55				
	La Hève	1010·6	64	W	3	bc	1017·7	*	?57	-2	WSW	5	*	o	5	17	66	52				
	Ushant	1014·4	59	NW	5	bc	1020·4	*	59	0	WNW	4	*	b	4	–	64	54				
	Brest (St. Mathieu)	1015·8	67	WNW	4	bc	1021·1	+3	68	-1	WNW	3	*	bc	3	–	68	57				
	Rochefort (Ile d'Aix)	1016·4	64	WNW	5	c	1022·1	+3	63	+3	W	3	*	c	*	1	66	59				
	Biarritz	1018·9	60	NW	2	r	1024·4	+1	63	-3	ESE	2	*	bc	3	17	68	59				
	Paris	1013·0	59	SSW	2	0	1020·3	+4	57	-4	SW	3	–	o	*	2	72	50				
	Belfort	1014·4	64	WSW	5	r	1023·1	*	57	-7	W	6	*	c	*	31	79	54				
	Lyons	1015·0	69	S	3	r	1024·4	*	60	-3	NNW	2	*	b	*	7	82	58				
	Nice	1016·9	71	–	0	b	1016·8	0	67	-2	W	1	*	c	2	Trace	82	63				
	Perpignan ...	1015·1	72	NE	2	0	1021·9	+1	66	-9	NW	2	–	o	*	10	86	61				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1020·8	66	N	4	b	1023·9	0	59	-2	NE	1	–	b	3	–	66	52				
	Madrid (8 a.m.)	1006·6	90	W	1	b	1017·6	+2	70	-3	NE	3	–	c	*	–	93	64				
	Lisbon (9 a.m.)	1015·1	73	NNW	6	bc	1015·1	+1	68	0	N	4	–	o	2	–	79	64				
	Gibraltar	1012·8	86	E	5	0	1013·2	*	74	+2	E	3	*	c	1	–	88	72				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1017·9	+1	80	+1	NNW	1	–	b	1	–	82	73				
	Azores (Horta, 8 a.m.)	1024·7	*	NE	4	bc	1023·5	0	68	0	W	4	*	o	2	–	75	64				
	Madeira (Funchal)	1015·8	73	N	2	bc	1015·9	+2	68	0	N	3	N	bc	3	1	75	68				

South Farnborough.
Pilot Balloon Ascent at about 7 a.m.
500 m. W 20 mph.

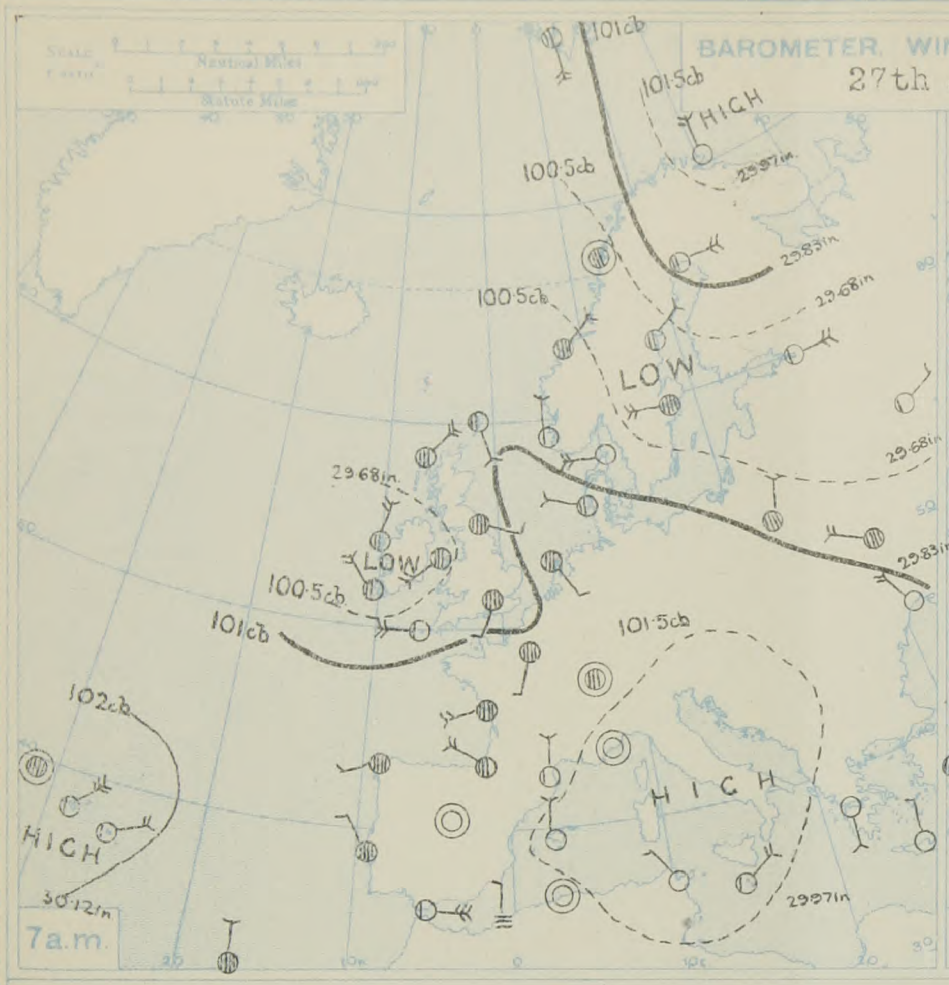
RAINFALL.

Equivalents of Millimetres, in Inches.

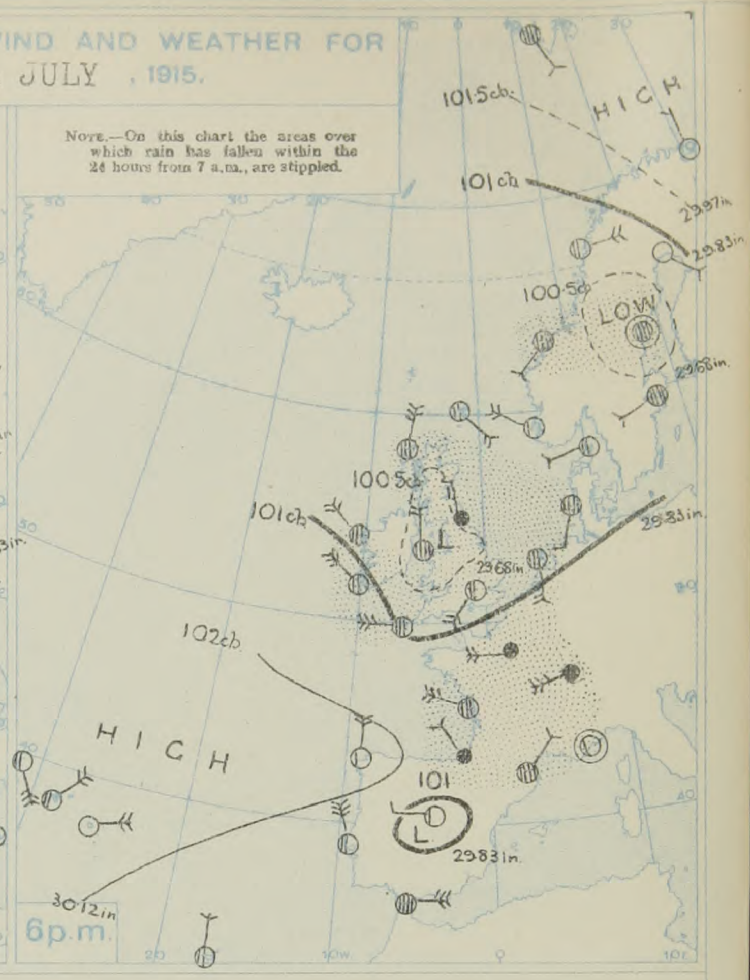
mm.	Inches.	mm.	Inches.
1	0·04	26	1·02
2	0·08	27	1·06
3	0·12	28	1·10
4	0·16	29	1·14
5	0·20	30	1·18
6	0·24	31	1·22
7	0·28	32	1·26
8	0·32	33	1·30
9	0·35	34	1·34
10	0·39	35	1·38
11	0·43	36	1·42
12	0·47	37	1·46
13	0·51	38	1·50
14	0·55	39	1·54
15	0·59	40	1·58
16	0·63	41	1·61
17	0·67	42	1·65
18	0·71	43	1·69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

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

BAROMETER, WIND AND WEATHER FOR 27th JULY, 1915.

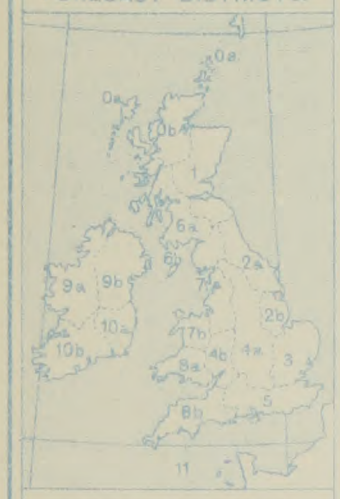


Note.—On this chart the areas over which rain has fallen within the 24 hours from 7 a.m., are stippled.



FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



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

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.

Wind in North-West quarter, fresh and gusty at times; some local showers, but generally fair to fine; cool.

Western Channel and Bay 11

Moderate Westerly breeze in north, light Easterly in south; sea slight to moderate; cloudy to fine; cool.

FURTHER OUTLOOK.

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

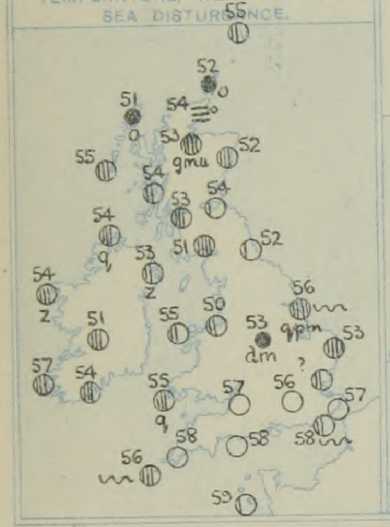
W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 28th JULY, 1915.

GENERAL INFERENCE.

An increase of pressure over the whole country will be accompanied by a general improvement in the weather, but with the day temperature continuing below the normal.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

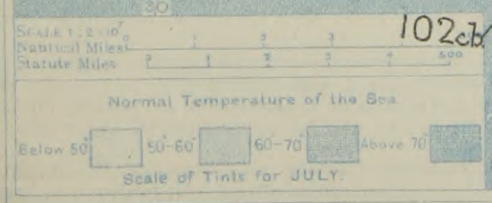
BAROMETER.—Isobars are drawn for intervals of five millibars.

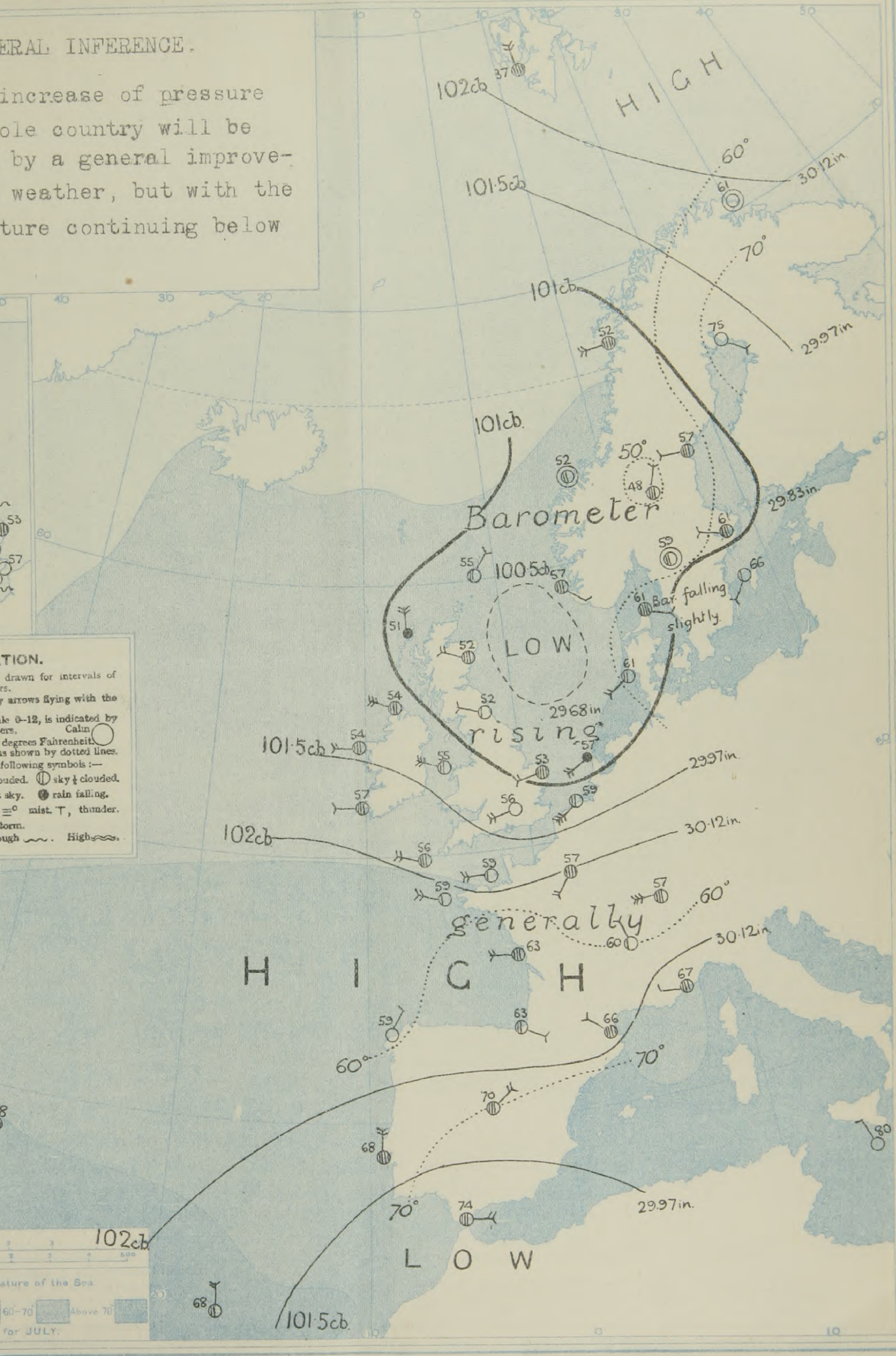
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

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 ≈≈≈.





DAILY WEATHER REPORT.

Wednesday, 28th July 1915.

REPORTS FOR YESTERDAY.

27th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Sanguinaire	×	84	W	2	b	×	×	75	+1	E	2	×	b	2	12	88	68

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	7	64	45	cv.	bc.c	5.5
	Banff	8	56	48	ovtr	thr.cr	0.0
	Carnoustie	3	62	47	o.cg	bc	5.4
	St. Andrews	8	61	47	*	*	3.3
Eng. N.E.	Harrogate	6	64	50	c.bc	bc.tlp	5.7
	Skegness	2	64	53	or	o.clr.c	4.7
Eng. N.W.	Morecambe	5	63	50	b.bcp	bcp.bc	7.1
	Blackpool	5	62	?	clr.o.c	c.our.c	
	Southport	13	62	49	c.o.clr	o.thr.c	6.2
Midlands.	Buxton	12	61	49			7.2
	Leamington Spa	2	66	53	c.bc	bc.c.tlp	6.7
	Malvern	13	65	52	bc.	p.bc	7.0
	Ross-on-Wye	8	66	52	b.o.br	bc.cp	8.2
Wales.	Rhyl	6	63	47	or.bc	r.c.bc	5.5
	Colwyn Bay	10	64	51	bcp	bcp	5.2
	Llandudno	4	63	48	r.c.	bp	4.7
	Aberystwyth	3	61	50	r.o.c	c. o	3.0
	Tenby	8	62	52	bc.op	bcp.	6.7
England, E.	Cromer	12	64	50	c.or	r.c.bc.oth	4.0
	Lowestoft	4	64	54	c.opt.c	c.opth	4.0
	Felixstowe	5	66	54	bcv. p.	bcv.	8.3
	Walton-on-Naze	17	64	55	bcp.or	bc.b	8.5
	Southend-on-Sea	5	67	54	b.bc.r.o	b.thr.b	7.8
England, S.E.	Tunbridge Wells	2	64	50	cp.op.	bc.b.	6.6
	Margate	2	68	54	bc.cp	c.bc.b	6.0
	Ramsgate	5	65	54	bc.o	p.bc	6.3
	Hastings	2	64	55	op.b.bc	bc	7.7
	Bexhill-on-Sea	2	63	57	bc	bc	8.3
	Eastbourne	2	63	55	cp	o.r.bc	8.1
	Seaford	2	63	55	or	b	7.3
	Brighton	3	65	58	or.o.c	c.bc.c	6.8
	Worthing	3	65	57	r.bc	bc	6.7
	Littlehampton	7	69	58	o.bc	b.bc	7.5
	Bognor	2	63	56	r.b	b.bc	7.5
	Southsea	7	65	55	r.bc	bc	9.0
	Bournemouth	5	63	53	r.bc.	bc	10.0
England, S.W.	Weymouth	8	66	55	b	b.bcz	10.2
	Torquay	5	65	54	bc.	bc. c.o	10.6
	Paignton						
	Falmouth	2	63	51	bcqp	bcq	11.2
	Penzance	1	66	52	bc	bc.b.	12.2
	Newquay	2	63	49	b	b.op.bc	10.3
	Ilfracombe	13	63	55	b	b.p.bc	12.5
	Weston-super-Mare	2	66	52	b.bc.b	b.pt.bc	9.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-Day.						
Greenwich (Royal Obsy.)	60	74	6.5	70	51	47	6	o.or.o	bc	bc.b.bc
City (Bunhill Row)	*	*	6.5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	54	66	6.9	68	52	?	6	r.bc	bc.r.b	bc
Camden Sq. (Brit. Rainfall)	54	62	6.1	70	51	48	6	or.c	r.c.bc	*
Hampstead (Reservoir)	*	68	5.1	65	48	35	10	or.bc	bc	bc.c
Richmond Park	*	*	7.5							
Kew. (See front page.)										

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

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1469 Joules	26.1 Milliwatts.	83 Milliwatts.

S. Kensington (Roof of M.O.)	49	92	7.0

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester ,,	16	63	52	*	or.o.c	c.or	op	5.7
Birmingham ,,					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	6	65	54	50	bc.or.bc	bc	bc.p	10.1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	10	69	54	47	c.bc	or.o.c	bc.b	*

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

28th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.6 / 4.7	11.59 / 11.59	7.51 / 7.50
Greenwich	4.18 / 4.30	12.4 / 12.6	7.54 / 7.52
Wick	3.55 / 3.57	12.18 / 12.18	8.41 / 8.39
Valencia	4.27 / 4.38	12.47 / 12.47	8.38 / 8.37

NOTES ON YESTERDAY'S WEATHER.

Very changeable weather was general, fine and sunny to dull, with thunderstorms in many localities, and rain nearly everywhere, 14 mm. at Stornoway and Yarmouth. Temperature remained below 65° at most stations.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 210

Thursday, 29th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·9	56	NNE	1	bc	1014·6	+1	53	-2	N	2	NW	bc	2	–	59	50	bc	bc	bc	*
	Deerness ...	1011·5	55	ENE	2	c	1016·6	*	54	+2	NW	3	W	c	1	–	60	50	or.o.c	c	c	2·7
	Stornoway ...	1013·8	56	NW	5	o	1018·1	+1	53	+2	SW	1	–	bc	1	5	56	45	or.dq	o	bc	0·3
	Castlebay (Barra Isd.)	1015·2	58	WNW	3	b	1018·4	0	55	0	SE	3	–	bc	3	–	59	48	c.bc	bc b	bc	11·3
	Glasgow ...	1013·9	55	W	4	c	1019·2	+3	51	-2	WSW	1	NW	bc	*	1	60	45	o.c	cp	c bc.bm	5·3
	Eskdalemuir ...	1013·9	56	WNW	4	bc	1019·1	+2	52	+1	W	3	NW	b	*	1	59	43	o	cp bc	bcq.b	5·9
	Malin Head ...	1016·0	59	W	2	bc	1018·5	+1	55	+1	W	2	N	bc	2	1	60	51	bcq	bc	bcp	11·8
	Blacksod Point	1017·3	58	WSW	3	bc	1018·3	0	56	+2	SW	2	SW	bcw	2	–	60	53	bc	bc	bc	*
	Valencia ...	1019·9	61	SW	4	bc	1020·7	0	58	+1	SW	2	SW	c	3	–	63	56	bc	bcr	bc.c.o	7·5
	Roche's Point	1020·4	62	SW	3	bc	1021·0	*	55	+1	S	1	–	o	2	4	66	53	bc	cp.bc	b.o	*
	Birr Castle ...	1019·0	58	W	2	c	1019·8	*	56	+5	SW	1	–	c	*	2	65	50	cp	cp	c	7·4
	Donaghadee ...	1015·9	55	NE	3	cmp	1019·1	+2	54	+1	W	2	–	bc	1	5	63	49	bcmp	cmr	cp.bcm	*
	Liverpool (Bidston)	1016·9	58	W	4	bc	1020·1	+2	56	+1	W	2	W	o	3	0·4	62	54	b	b.ob	bc.o	10·2
	Holyhead ...	1017·8	58	SW	4	c	1020·0	+1	57	+2	WSW	3	–	c	2	1	62	54	c.bc.cp	cp.cp.o	cp.o.c	7·4
	Pembroke (St. Ann's)	1020·4	58	W	3	c	? 1021·0	+1	[illegible]	+2	SSW	3	W	c	2	–	59	56	cq	bc	c	11·2
	Scilly (St. Mary's)	1022·0	60	W	2	bc	1022·8	0	56	0	WNW	2	W	bc	3	–	64	53	bc	b bc	bc	12·5
	Falmouth ...	1021·9	63	W	2	bc	1022·6	0	56	-3	W	2	SW	bc	3	–	66	50	b	bc	bcw	13·3
	Jersey (St. Aubin)	1022·7	62	WNW	3	c	1023·6	*	60	+1	NW	2	NW	bc	1	–	65	52	b	bc.c	b.bc	11·5
	Portland Bill ...	1019·8	59	WSW	5	bc	1022·4	+1	58	0	WNW	3	W	c	3	–	61	55	b	bc	b.bc	*
	Dungeness ...	1019·9	60	SW	6	bcq	1021·5	+1	58	0	NW	2	W	b	2	–	65	48	bcq	bcq	bc.o	*
	Dover	?	60	SW	6	bc	1021·7	0	62	+5	W	2	–	b	2	–	67	50	b	b	b	12·9
	Wick	1011·2	53	NE	1	m	1017·0	+2	54	*	WNW	2	–	o	2	0·2	55	49	cmp	cmr	cmr	*
	Nairn	1012·1	54	W	1	ogum	1018·1	*	50	-3	WSW	1	–	cu	1	22	54	49	cmr	gmr	p.cg.c	0·0
	Aberdeen ...	1011·2	58	WNW	3	cp	1017·0	+3	56	+3	WNW	4	NW	bc	2	9	61	51	bc.or	c.or	cp.c.bc	1·9
	Leith	1012·4	60	W	3	c	1018·8	+2	52	-2	WSW	2	–	bc	*	1	62	49	c	o.c	or.c	*
	Tynemouth ...	1012·9	56	WNW	2	cmtr	1017·4	+2	52	0	WNW	2	–	bm	2	2	63	47	cmp	cmr	bcm	*
	Spurn Head ...	1016·3	60	NW	6	bc	1019·1	+1	56	0	WNW	5	–	bcmq	5	–	62	52	bcfq	bcq	bcq	9·2
	Yarmouth ...	1017·4	59	WSW	2	bc	1020·6	+1	54	+1	W	2	W	b	2	4	68	49	c.bcf	bcp	o.bc	8·7
	Clacton-on-Sea	1017·9	62	WNW	3	c	1021·0	+1	56	0	WNW	2	–	b	1	–	69	50	bc	bc.c	cu.bc.b	9·6
	Nottingham ...	1016·8	60	W	3	bc	1020·2	*	54	+1	W	2	W	bc	*	0·3	64	47	o.bcp	cp.bc	bc	7·2
	Bath	1019·4	62	W	4	b	1021·5	*	58	+1	W	2	W	bc	*	–	66	49	b.bc	bc.b	b.bc	13·5
	Sth Farnborough	1018·7	63	W	3	bc	1021·5	+1	54	-1	W	1	W	b	*	–	70	45	b	bc	b.bc.b	13·5
	London (Kew Obsy.)	1019·0	61	WNW	2	c	1022·0	+1	55	-1	W	2	W	bm	*	–	68	49	b bc.c.b1	b c.c	b.bc.b bm	11·4
NORTHERN EUROPE.	Spitsbergen ...	1021·2	41	S	1	f	1020·7	+1	30	+13	–	0	*	o	*	*	50	34				
	Vardö															*						
	Bodö	1015·7	52	–	0	c	1013·2	0	55	+3	–	0	–	b	0	26	55	48				
	Christiansund	1009·3	55	NE	2	c	1010·1	0	52	-2	NE	2	–	o	2	Trace	59	52				
	Skudesnaes ..	1007·7	57	W	1	o	1007·7	0	57	0	NNW	4	–	o	2	–	63	48				
	Færder (X'tania Fjord)	1007·1	55	W.SW	2	o	1004·3	-1	55	-4	NNW	4	–	r	1	12	59	54				
	The Scaw (Skagen)	1007·1	57	NNE	1	c	1005·5	0	55	-6	W	1	–	o	2	8	61	54				
	Blaavands Huk	1009·9	63	W	2	c	1010·4	0	55	-6	W	5	–	c	4	1	64	54				
	Haparanda ...	1011·1	81	SE	2	b	1011·5	0	72	-3	NE	2	–	b	*	–	86	61				
	Hernösand ...	1011·3	61	–	0	bc	1007·4	-3	57	0	–	0	–	r	*	Trace	66	54				
	Stockholm ...	1006·9	59	E	2	o	1004·2	0	55	-6	SW	2	–	o	*	6	68	52				
	Wisby	1004·8	61	SW	2	m	1007·8	+1	57	-9	SW	6	–	b	4	3	70	55				
	Karlstad	1007·5	55	–	0	r	1002·7	+3	64	+5	–	0	–	r	*	26	68	50				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1015·5	59	SW	4	c	1017·9	0	59	+2	W	5	–	bc	4	4	63	57				
	C. Gris Nez ...	1019·7	59	W	6	c	1021·6	+1	58	0	W	3	*	b	2	–	63	55				
	La Hève	1022·1	59	NW	3	b	1021·6	*	57	0	W	3	*	o	3	–	68	52				
	Ushant	1023·7	59	WNW	3	c	1023·6	*	57	-2	WNW	1	*	b	3	–	66	52				
	Brest (St. Mathieu)	1024·3	63	W	1	c	1025·0	0	58	0	E	1	*	b	2	–	70	55				
	Rochefort (Ile d'Aix)	1022·6	68	NW	3	b	1021·6	0	60	-3	NE	3	*	c	*	4	70	55				
	Biarritz	1020·3	69	E	2	o	1018·3	+1	64	+1	ENE	1	*	o	2	–	72	61				
	Paris	1021·7	66	W	2	bc	1023·1	0	59	+2	NNE	2	–	bc	*	–	73	52				
	Belfort	1024·4	63	W	4	bc	1024·3	*	54	-3	–	0	*	o	*	–	68	46				
	Lyons	1023·1	66	NNE	1	c	1022·1	*	57	-3	–	0	*	o	*	–	72	55				
	Nice	1016·3	74	–	0	bc	1016·9	0	70	+3	–	0	*	o	2	Trace	86	66				
	Perpignan ...	1020·3	70	W	1	o	1019·7	+2	66	0	W	2	SW	o	*	–	79	61				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021·0	66	NNE	6	b	1021·6	+2	64	+5	NE	5	–	o	3	–	68	61				
	Madrid (8 a.m.)	1012·6	81	ESE	6	o	1018·0	+1	72	+2	–	0	–	c	*	3	88	63				
	Lisbon (9 a.m.)	1014·0	79	NNW	4	c	1016·9	+2	64	-4	NNW	3	NW	b	5*	–	84	63				
	Gibraltar	1016·9	78	E	6	o	1016·9	*	76	+2	E	6	*	m	*	–	84	74				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1016·0	+3	79	-1	NNW	2	–	b	1	–	84	75				
	Azores (Horta, 8 a.m.)	1022·9	*	W	5	m	1023·6	+1	70	+2	WSW	1	*	o	2	–	77	68				
	Madeira (Funchal)	1016·3	75	N	3	b	1018·3	+2	70	+2	N	3	–	bc	3	–	75	68				

South Farnborough 7 a.m

Pilot Balloon Ascent 500 m. NW 17 mph.
2000 m. WNW 13 mph

Aberdeen 8 a.m

Pilot Balloon Ascent 500 m. NW 24 mph.
1000 m. NNW 22 mph.
2000 m. NW 13 mph
3000 m. NW 18 mph

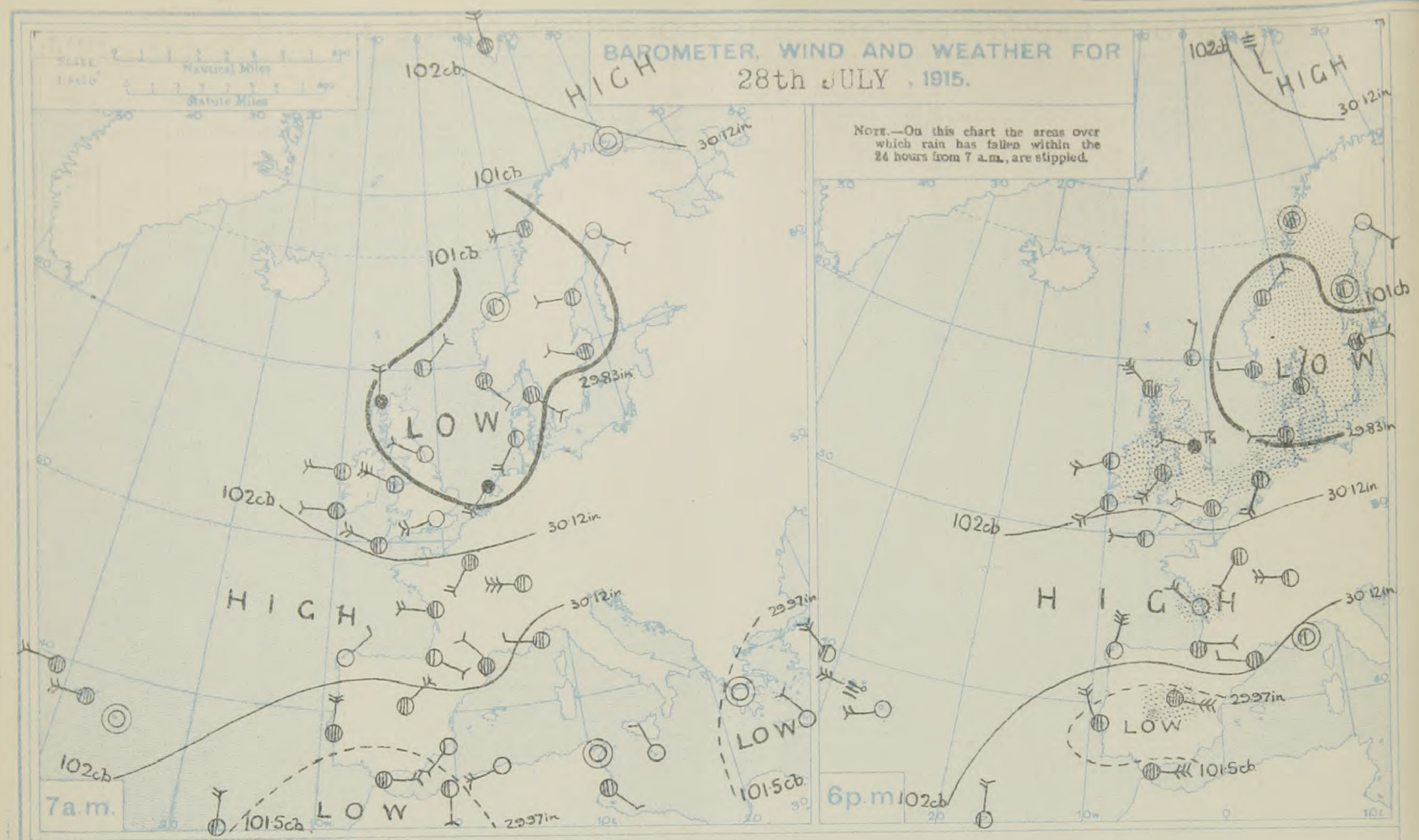
RAINFALL.

Equivalents of Millimetres in Inches.

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

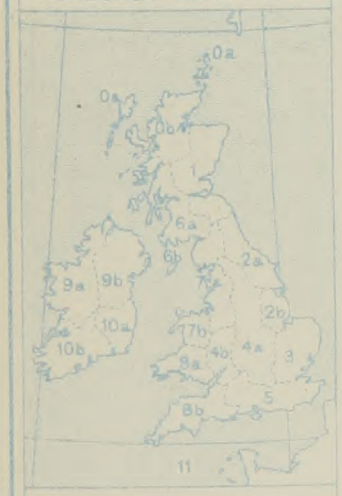
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 28th JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



0 {a b} 1 2 {a b} 3 — Moderate to light North-Westerly to Westerly breezes; generally fair to fine, but some local coast showers; cool.

4 {a b} 5 6 {a b} 7 {a b} 8 {a b} 9 {a b} 10 {a b} — Light breezes between South-West and North-West; fair to fine; cool.

STORM WARNINGS.

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

Signals hoisted yesterda,	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11 — Light Easterly breeze; sea slight; cloudy to fine; cool.

FURTHER OUTLOOK.

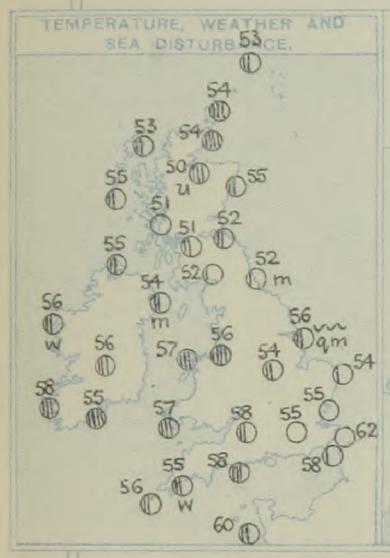
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director

SYNOPTIC CHART FOR 7 a.m., THURSDAY, 29th JULY, 1915.

GENERAL INFERENCE.

The conditions over the country generally will be under the influence of the anticyclone now centred near the Channel.

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 ◯

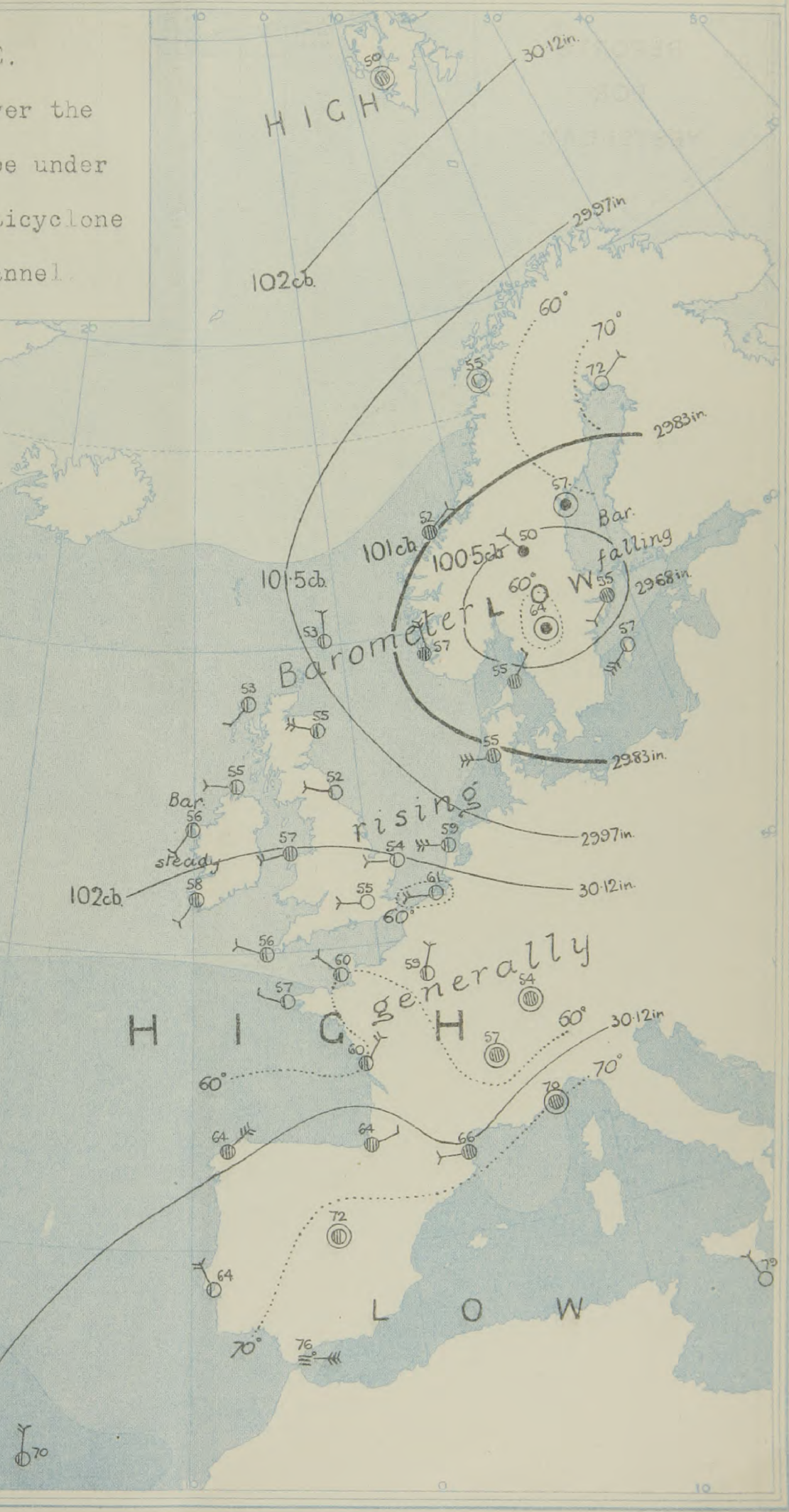
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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 70°
Nautical Miles 0 100 200 300 400 500
Statute Miles 0 100 200 300 400 500

Normal Temperature of the Sea.
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for JULY.



DAILY WEATHER REPORT. Thursday 29th July 1915.

REPORTS FOR YESTERDAY.

28th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Sanguinaire	×	77	N	2	8	×	×	81	+6	E	1	–	8	2	–	91	70

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	1	63	51	8c	c	5.5
	Banff	2	60	49	8c3	8c.c	7.3
	Carnoustie	–	65	46	o c	8c.c	8.5
	St. Andrews	–	63	46	*	*	7.4
England, N.E.	Harrogate	1	62	49	b.bc	b	10.1
	Skegness	1	66	51	8c	8c.8 8c	10.3
England, N.W.	Morecambe	8	63	54	8c8	8	11.0
	Blackpool	1	63	53	bc.b	b	11.2
	Southport	13	61	51	c.o8c8	8.8c	10.7
Midlands.	Buxton	8	58	48	8c	8c	6.2
	Leamington Spa	1	65	50	8cp	8c	10.2
	Malvern						
	Ross-on-Wye	–	69	50	88ov	8c.8	9.8
Wales.	Rhyl	2.2	63	53	p8c.c	8c c8c	7.0
	Colwyn Bay	2	63	58	8c	8c	6.5
	Llandudno	4	65	52	p.c	8c	5.6
	Aberystwyth	7	61	54	n.o c	8c.o	6.5
	Tenby		64	48	8	8	12.4
England, E.	Cromer	3	62	50	c.8c.op	c.8c.c	9.0
	Lowestoft	1	69	52	c8c.c	c8c c	8.2
	Felixstowe	0.3	66	53	8ov	8ov p	8.3
	Walton-on-Naze	–	68	52	bc	bc.cu	9.1
	Southend-on-Sea	–	68	56	8c.b	b.bc.c	10.6
England, S.E.	Tunbridge Wells	–	69	51	b.bc.b	b.bcpc	12.0
	Margate	–	69	52	b	b	11.8
	Ramsgate	–	69	50	8c	8c	11.2
	Hastings	–	65	54	b	b	12.6
	Bexhill-on-Sea	Trace	65	55	bc.b	bc	9.6
	Eastbourne	1	64	55	8	8.	12.4
	Seaford	–	63	56	b	b	12.1
	Brighton	–	65	55	bc	bc.c bc	11.0
	Worthing	–	66	54	8c	8c	11.2
	Littlehampton	–	65	›	b8	b	10.7
	Bognor	–	65	54	8	8cp.c	10.9
	Southsea	0.3	66	54	8c	8cp	10.2
	Bournemouth	1	65	51	8.8cc	c	9.0
England, S.W.	Weymouth	–	68	55	8c.8	8.8cg	12.0
	Torquay	0.3	70	52	c.8c	8.8c	12.5
	Paignton						
	Falmouth	–	66	53	b	bc	11.8
	Penzance	1	66	54	b.ibc	bc	11.6
	Newquay	–	63	56	b	b	12.3
	Ilfracombe	–	62	55	bc.b	b.bc	12.4
	Weston-super-Mare	–	64	51	b	b	12.3

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	24 Hours ended 9 A.M. To-Day. °F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	49	70	11.8	71	49	41	–	bc	bc	bc.o c.bc
City (Bunhill Row)	*	*	11.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	52	74	11.4	70	49	?	–	bc	bc o	c.bc
Camden Sq. (Brit. Rainfall)	50	73	8.6	72	48	46	–	b.bc	bc	*
Hampstead (Reservoir)	*	76	11.6	67	47	33	–	bc	bc	c
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	48	67	11.5							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1924 Joules	34.3 Milliwatts.	81 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	14	60	50	48	or.bc	bc.p	bc	9.5
Manchester ,,	17	63	51	*	ort	o.c	c.bc.c	9.0
Birmingham ,,	14	64	48	45	b.bc.c	c	c	11.0
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	–	68	53	46	bc	c.bc	b.bc	12.8
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	–	70	52	46	b.bc	bc	bc.op.c	*

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

28th & 29th July, 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.7 / 4.8	11.59 / 11.59	7.50 / 7.49
Greenwich	4.20 / 4.21	12.6 / 12.6	7.52 / 7.51
Wick	3.17 / 3.59	12.18 / 12.18	8.39 / 8.37
Valencia	4.58 / 4.59	12.47 / 12.47	8.37 / 8.36

NOTES ON YESTERDAY'S WEATHER.

Low afternoon temperatures ruled, 54° to 60° in the north and west. Generally there was little or no rain, but Nairn had 22 mm. Most districts had good sunshine records, up to 13½ hours at Bath and South Farnborough.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 211.

Friday, 30th July, 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1017·8	56	NW	4	bc	1017·1	-1	52	-1	NW	3	-	c	2	-	59	50	bc	bc	bc.c	*
	Deerness ...	1019·3	58	NW	3	b	1018·3	*	53	-1	NW	2	W	c	1	-	60	50	c.bc	bc.b	b.bc.c	11·8
	Stornoway ...	1019·4	60	W	3	bc	1019·9	-1	56	+3	W	1	-	c	1	1	60	51	c	c.bc	c.bc.c	5·8
	Castlebay (Barra Isd.)	1020·4	59	WNW	3	bc	1020·6	0	56	+1	SW	3	-	o	3	-	61	51	bc.b	bc.b	bc.b.c	11·2
	Glasgow ...	1019·9	61	WNW	2	bc	1020·5	-1	52	+1	WSW	1	-	b	*	-	66	47	b.bc	bc	bc.bm	14·0
	Eskdalemuir ...	1019·6	59	SSW	4	bc	1020·7	0	48	-4	-	0	-	bcw	*	-	63	36	b.bc	bc	bc.b.	12·5
	Malin Head ...	1020·8	60	NE	2	b	1021·7	0	55	0	SW	2	SW	bcw	2	-	63	52	b	b	btw	13·6
	Blacksod Point	1021·6	58	WNW	3	bc	1021·7	-2	56	0	WSW	2	NW	cz	2	0·1	62	52	bc	bc	bc.cnw	*
	Valencia ...	1023·3	60	W	3	bc	1023·4	0	58	0	-	0	NW	b	3	-	64	54	c	bc	bc.c.bc	11·7
	Roche's Point	1021·3	60	NW	2	c	1023·7	*	54	-1	W	1	-	b	2	16	62	51	org.c	cp.c	bc.b	*
	Birr Castle ...	1020·5	62	W	2	c	1023·1	*	55	-1	W	1	-	b	*	2	66	51	cp	cp	b	6·2
	Donaghadee ...	1020·0	62	S	2	bcz	1020·9	+1	55	+1	WNW	1	-	bz	1	0·1	63	51	bcz	bcz	cg.bcm	*
	Liverpool (Bidston)	1021·3	61	WNW	2	b	1021·3	0	56	0	-	0	-	o	1	-	63	53	bc	b	bc.o	11·5
	Holyhead ...	1021·0	60	SW	3	c	1021·1	0	57	0	WSW	2	-	of	0	-	64	55	c.bc.b	b	b.bc.bf	10·0
	Pembroke (St. Ann's)	1020·2	58	WNW	2	bc	1022·7	0	56	-1	NW	3	N	c	2	-	60	56	c	c	bc	10·5
	Scilly (St. Mary's)	1023·7	63	W	2	b	1023·5	0	56	0	WNW	1	NW	bw	3	0·2	65	53	bc.b	bc	b	12·7
	Falmouth ...	1022·9	63	NNW	3	b	1023·1	+1	57	+2	WNW	1	NW	cw	2	1S	66	50	bc.cg	cg.r.bc	bc.cw	7·6
	Jersey (St. Aubin)	1023·3	63	WNW	3	b	1023·4	*	60	0	WNW	2	-	b	1	-	66	51	b	b	bw.b	11·1
	Portland Bill ...	1022·9	59	WSW	2	bc	1023·1	0	59	+1	WNW	1	-	b	2	-	61	56	b.bc	bc	bc.b	*
	Dungeness ...	1021·7	61	SW	3	o	1021·1	0	57	-1	NW	2	-	b	2	0·3	66	48	bc.c	c.cp.o	o.c.bc.b	*
	Dover	1022·2	57	NW	4	o	1020·8	0	60	-2	NW	2	-	b	2	17	66	49	b.bc.c	c.vblo	cg.bc.b	8·2
	Wick	1019·6	55	-	0	c	1018·0	-1	56	+2	NW	2	NW	c	2	-	60	47	cm.bc	bc c	cm.cm	*
	Nairn	1019·1	60	E	1	c	1019·7	*	54	+4	-	0	-	c	0	1	65	48	c.bc	b.bcw	cp	7·0
	Aberdeen ...	1020·1	57	SE	1	bc	1019·3	-1	56	0	WNW	3	NW	c	2	0·4	63	46	bc.c.o	bc.cp	b.bcp	7·0
	Leith	1018·7	66	WNW	3	b	1020·0	0	54	+2	W	2	-	b	*	-	68	50	b	bc.b	b	*
	Tynemouth ...	1019·1	58	E	2	bc	1020·1	0	55	+3	NW	1	-	b	2	-	61	50	bc	bc	b	*
	Spurn Head ...	1020·8	60	ESE	3	bc	1020·8	0	57	+1	NNW	3	-	bcm	*	-	?	?	bc	bc	bc.o	9·0
	Yarmouth ...																					
	Clacton-on-Sea	1021·6	60	WSW	3	c	1021·1	0	56	+1	WNW	2	-	bc	1	5	67	51	b.bc.c	cp	c.cw	10·2
	Nottingham ...	1020·6	62	W	2	c	1021·2	*	50	-4	WSW	1	-	bm	*	Trace	67	47	bc.c	cp	bc.b	4·7
	Bath	1021·5	65	W	2	m	1022·1	*	55	-3	W	1	-	m	*	-	69	50	bc.c.o	bc.cbr	b.bc.cw	12·1
	Sth Farnborough	1021·3	58	NW	2	r	1021·6	0	53	-1	W	1	NW	bw	*	6	71	47	b.thr.c	c.thr	thr.c.b	7·2
	London (Kew Obsy.)	1022·0	61	SSW	3	cu	1021·9	+1	53	-2	SW	1	-	b	*	Trace	70	50	bm.c.bc	b.o.mtl.ouckcm.bcf.fw		8·0
NORTHERN EUROPE.	Spitsbergen ...	1023·0	45	N	4	b	1023·4	0	39	-11	N	5	*	b	*	*	50	37				
	Vardö	1020·8	50	NE	2	f	1022·0	0	54		NE	1	-	f	2	*	52	48				
	Bodö	1010·9	61	-	0	b	1009·2	0	?	-?	E	2	-	b	1	-	70	54				
	Christiansund	1011·0	55	NE	2	o	1009·5	-1	52	0	-	0	-	f	2	2	57	52				
	Skudesnaes ..	1008·7	55	NNW	7	o	1008·4	0	56	-2	NNW	7	-	r	4	1	57	54				
	Færder (X'tania Fjord)	1003·8	57	W3W	1	o	1004·3	-1	59	+4	N	1	NE	c	1	4	57	55				
	The Scaw (Skagen)	1005·1	59	WSW	2	bc	1003·1	0	57	+2	NNE	2	-	c	2	6	61	54				
	Blaavands Huk	1012·7	57	NW	5	c	1012·0	0	59	+4	NW	6	-	c	6	Trace	61	54				
	Haparanda ...	1008·0	79	NE	2	b	1009·7	+1	64	-8	NNE	6	-	c	*	-	84	61				
	Hernösand ...	1005·2	63	-	0	bc	1008·0	+1	64	+7	N	6	NE	bc	*	6	66	55				
	Stockholm ...	1005·0	63	WSW	2	o	1002·7	0	61	+6	W	2	-	o	*	-	66	52				
	Wisby	1006·9	61	SW	2	b	1003·5	-3	59	+2	WSW	2	-	bc	2	-	64	52				
	Karlstad	1004·7	61	-	0	b	1003·6	-1	54	-10	W	2	-	f	*	1	64	46				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1019·9	59	WNW	3	b	1020·0	0	59	0	NW	3	-	c	3	-	61	57				
	C. Gris Nez ...	1022·7	57	SW	2	c	1020·8	0	60	+2	W	2	*	b	0	-	64	54				
	La Hève	1022·4	61	WNW	2	bc	1022·3	*	59	+2	NW	1	*	bc	1	-	66	54				
	Ushant	1023·5	60	N	2	b	1024·8	*	59	+2	NW	1	*	b	3	-	75	52				
	Brest (St. Mathieu)	1025·1	59	N	2	b	1026·0	0	56	-2	N	1	*	b	1	-	70	54				
	Rochefort (Ile d'Aix)	1020·3	66	NW	5	c	1022·3	+3	59	-1	NE	3	*	c	*	-	73	58				
	Biarritz	1019·3	68	NNE	3	o	1022·0	+1	64	0	E	2	*	c	2	-	73	61				
	Paris	1020·8	66	NNE	2	b	1022·6	+1	59	0	N	2	-	b	*	-	72	48				
	Belfort	1020·0	66	E	2	c	1020·8	*	57	+3	-	0	*	m	*	-	73	51				
	Lyons	1019·0	68	N	1	o	1020·0	*	60	+3	N	3	*	o	*	-	73	58				
	Nice	1013·9	71	-	0	o	1013·1	-2	69	-1	-	0	*	b	2	-	77	64				
	Perpignan ...	1017·6	68	-	0	fbr	1018·7	+3	66	0	W	2	W	o	*	16	81	63				
	Sanguinaire ...							*					*									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1022·9	66	SW	5	o	1023·4	0	63	-1	NE	5	-	b	2	-	66	59				
	Madrid (8 a.m.)	1012·3	86	W	3	o	1016·6	0	68	-4	ENE	1	-	b	*	?	90	63				
	Lisbon (9 a.m.)	1016·8	73	NNW	5	b	1017·7	-1	63	-1	NNW	4	-	b	5	-	82	63				
	Gibraltar	1016·9	76	E	4	c	1016·2	*	73	-3	E	3	*	o	2	-	81	70				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1014·9	0	84	+5	WNW	1	-	b	0	-	86	73				
	Azores (Horta, 8 a.m.)	1025·1	*	SSW	4	b	1026·3	0	69	-1	SW	2	*	bc	2	-	84	66				
	Madeira (Funchal)	1019·7	73	N	3	bc	1020·6	0	66	-4	NE	4	-	b	3	-	75	66				

South Farnborough
Pilot Balloon Ascent at about 7 a.m.
500 m. NW by N 7 mph.
2000 m. NW 13 mph.

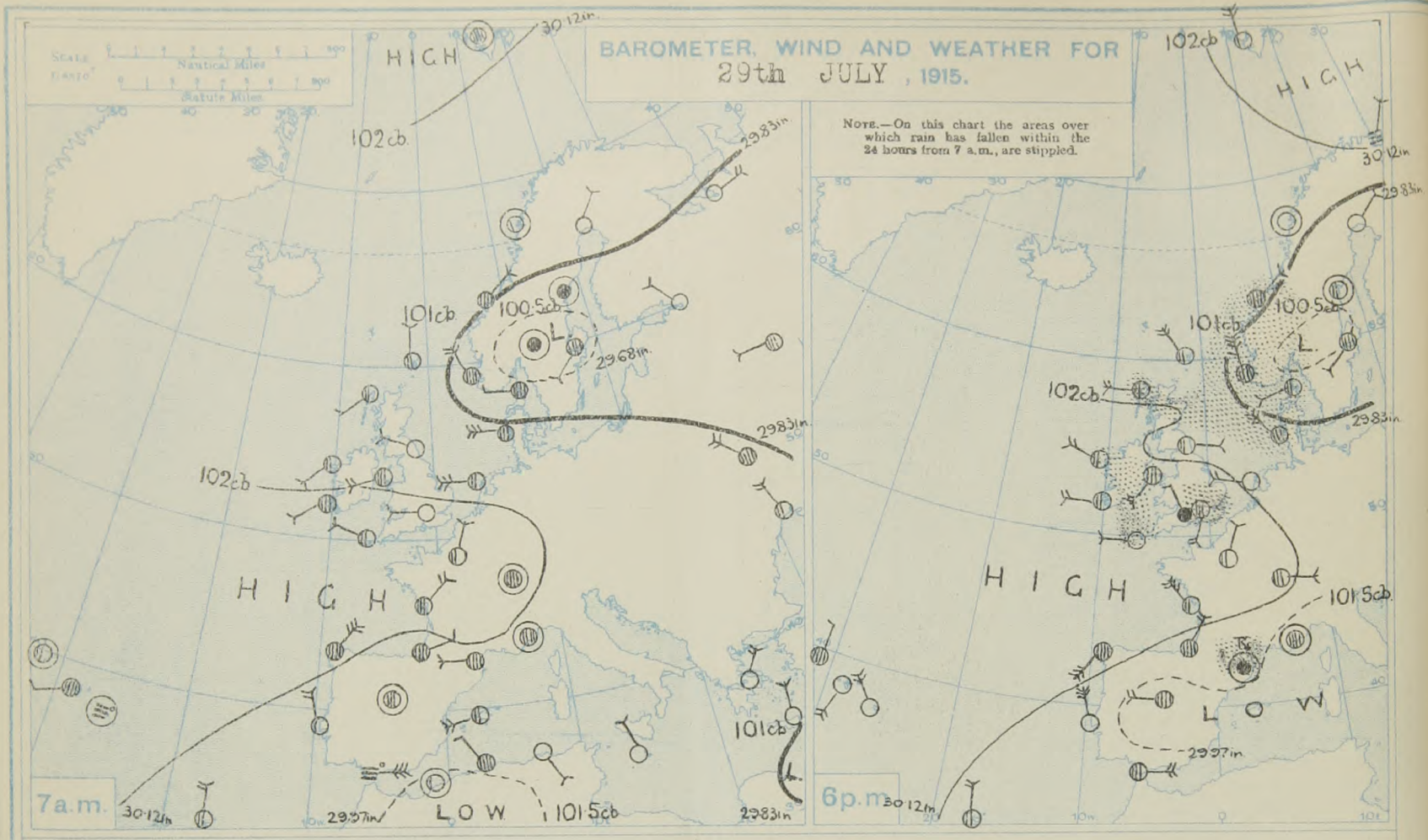
Aberdeen
Pilot Balloon Ascent at 8 a.m.
500 m. NW 31 mph.
1000 m. NW 27 mph.
2000 m. NW 20 mph.
3000 m. NW 27 mph.

RAINFALL.
Equivalents of Millimetres. In Inches.

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

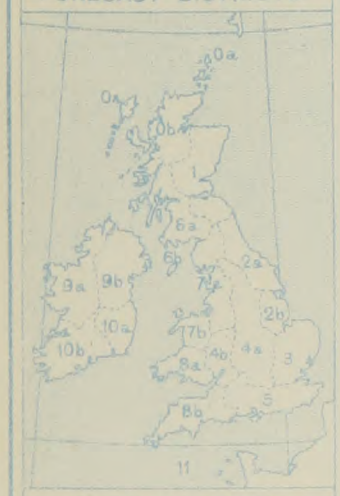
* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

BAROMETER, WIND AND WEATHER FOR 29th JULY, 1915.



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, 2a, 2b, 3, 4a, 4b, 5, 6a, 6b, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b	Light North-Westerly to Westerly breezes; generally fair to fine, morning mist; cool.
Western Channel and Bay 11	Light North-Westerly breezes in north, moderate Easterly in south; sea slight to moderate; fair to fine, local mist; cool.

FURTHER OUTLOOK.

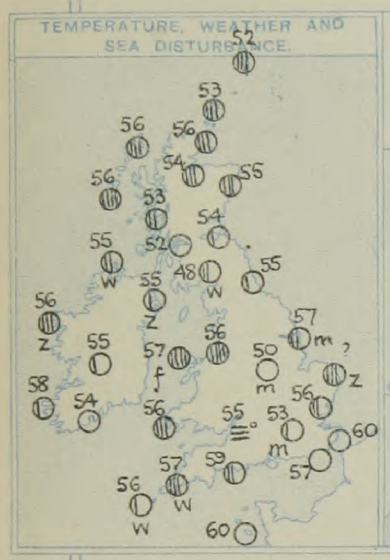
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., FRIDAY, 30th JULY, 1915.

GENERAL INFERENCE.

No important change in the situation is indicated

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



EXPLANATION.

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

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

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

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

SEA DISTURBANCE.—Rough ~~ High ≈≈.

102cb
30·12in.
60°
29·97in.
101·5cb
101cb
29·83in.
29·68in.
1005cb.
L O W
Bar falling
102cb
Bar falling slightly
Barometer steady
50°
29·68in.
29·83in.
29·97in.
H I G H
60°
Barometer rising
101·5cb.
L O W
29·97in.
70°
102·5cb
H I G H
30·27in.
30·12in.

Normal Temperature of the Sea

Below 50° | 50°–60° | 60°–70° | Above 70°

Scale of Tints for JULY.

DAILY WEATHER REPORT. Thursday 30th July 1915.

REPORTS FOR YESTERDAY.

29th July

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
Petrograd	1009.5	70	NW	3	b	1005.5	-4	68	-	NW	2	-	b	x	10	79	64
Sanguinaire	x	77	N	3	bc	x	x	77	-7	E	1	-	0	3	-	93	72

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	65	42	bbc	b	11.5
	Banff	Trace	59	53	c.bc	bc.bd	7.9
	Carnoustie	-	68	49	od.c	b	5.5
	St. Andrews	-	64	49	x	x	7.9
Eng. N.E.	Harrogate	-	66	47	b	bbc.c	8.6
	Skegness	1	66	46	bc	u.bc.c	6.9
Eng. N.W.	Morecambe	-	63	49	b	b	12.0
	Blackpool	-	64	54	c.bc.b	b	12.7
	Southport	-	62	56	o.c.bc	bc.b	10.5
Midlands.	Buxton	1	64	49	bc	bc	8.9
	Leamington Spa	1	65	47	bc.cp	bc.c	4.4
	Malvern	1	67	43	b	br.f	0.0
	Ross-on-Wye	0.3	70	47	bcwp	c.bc.b	8.7
Wales.	Rhyl	-	64	49	bc	bc.b	10.5
	Colwyn Bay	1	62	54	c.bc	b.bc	6.8
	Llandudno	2	65	55	ep.b	b	6.1
	Aberystwyth	1	63	57	m.c.c	c.bc	8.0
	Tenby	-	65	51	bc	b	7.9
England. E.	Cromer	-	65	49	bcm	c.om	9.6
	Lowestoft	2	67	49	bc.c	c.ep.c	8.3
	Felixstowe	0.2	68	50	bc	bcop	9.2
	Walton-on-Naze	1	67	50	bc	bcp.brd	8.9
	Southend-on-Sea	0.3	72	51	b.bc	br	8.7
England. S.E.	Tunbridge Wells	1	69	45	b	cp.to	9.5
	Margate	3	67	51	b	bc.etr	8.6
	Ramsgate	1	66	48	bc	otp.c	9.4
	Hastings	1	66	48	b	b.op.bc	9.9
	Bexhill-on-Sea	-	66	48	bc	c.	9.6
	Eastbourne	-	66	52	b	b bg	12.5
	Seaford	-	66	50	b	b	11.7
	Brighton	-	67	50	b	b bc.c	12.1
	Worthing	1	63	47	bc	bc	11.6
	Littlehampton	1	64	47	b	b	13.0
	Bognor	0.2	67	48	b	b	12.7
	Southsea	r	68	50	bc	bc	11.0
	Bournemouth	-	68	47	bc	bc	11.0
England. S.W.	Weymouth	-	68	51	b	b bcg	11.5
	Torquay	8	66	50	c.bc	bc.bc	7.0
	Paignton						
	Falmouth	15	66	51	bc.cg	cgr.bc	6.2
	Penzance	-	68	51	b	b	12.0
	Newquay	-	64	49	b	b	11.0
	Ilfracombe	-	63	57	bc.b	b.bc	9.4
	Weston-super-Mare	-	66	54	bbc.b	b.bc.b	10.0

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
	%	%	Hr.	°F.	°F.	°F.	mm.§			
				24 Hours ended 9 a.m. To-day.						
Greenwich (Royal Obsy.)	64	71	9.9	73	50	43	3	bc	c.or.o	o.c.bc
City (Bunhill Row)	x	x	7.6	x	x	x	x	x	x	x
Westminster (St. James's Pk.)	63	78	8.7	69	49	47	b	bc	or bc oth	m.b
Camden Sq. (Brit. Rainfall)	71	75	5.2	71	49	48	9	c	oth.or.ep	x
Hampstead (Reservoir)	x	78	7.3	67	48	32	7	cbc	bcopbk	bc
Richmond Park	x	x	8.1							
Kew. (See front page.)										

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

S. Kensington (Roof of M.O.) 52 73 9.1

Vertical Component of Solar Radiation per square Centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1641 Joules	29.3 Milliwatts.	82 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								x
Darwen to 9 p.m.								
Manchester ,,				x				
Birmingham ,,	!	64	49	43	x	c.o	c.o	2.9
Oxford to 8 p.m.	x							x
Teignmouth to 9 ,,	9	66	48	45	b	b.bc.ob	or.bc.b	8.0
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	7	70	50	44	b.bc.c	bc.o	oth.o.c	x

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

30th July 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.8 / 4.10	11.59 / 11.59	7.49 / 7.47
Greenwich	4.31 / 4.33	12.6 / 12.6	7.51 / 7.49
Wick	2.59 / 3.1	12.18 / 12.18	8.37 / 8.35
Valencia	4.59 / 5.1	12.47 / 12.47	8.36 / 8.33

NOTES ON YESTERDAY'S WEATHER.

In most places temperature remained below 65°. Rain fell in various districts, 16 mm. at Roche's Point, 15 mm. at Falmouth. Thunderstorms occurred at several stations in southern England. There many good sunshine records, 14 hours at Glasgow.

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

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

‡ The barometric change is expressed in half-millibars.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 212. Saturday, 31st July 1915.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–6.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for Yesterday.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1013·9	53	NNW	4	o	1009·9	−1	51	−1	NNW	3	–	0m	3	2	58	49	o	o	cgm	5 hours.
	Deerness ...	1015·6	55	NNW	4	b	1011·8	*	52	−1	NW	4	–	o	2	–	58	49	c	c.bc.b	b.bc.c.c	3·7
	Stornoway ...	1018·0	57	NNW	3	o	1014·7	−1	51	−5	NE	2	–	bc	2	–	62	46	c	c.o	o.bc	4·2
	Castlebay (Barra Isd.)	1017·3	59	WNW	3	c	1013·2	−1	55	−1	ENE	4	S	c	4	–	63	53	o.c	c.bc	c.c.c	7·6
	Glasgow ...	1016·2	63	WNW	2	b	1013·6	−1	52	0	E	1	SW	o	*	–	67	50	b.bc	bc.b	bm.bm	14·1
	Eskdalemuir ...	1016·3	61	ENE	1	bc	1013·8	−1	49	+1	NW	1	–	om	*	–	66	46	w.bc	cg.b	b.bc.c	9·6
	Malin Head ...	1017·6	59	NW	2	bcm	1012·2	−4	56	+1	ENE	4	–	bcm	3	–	63	52	cg	bcm	bcm	3·6
	Blacksod Point	1018·5	58	SW	2	cg	1006·9	−6	55	−1	ESE	6	SE	cp	5	4	62	54	bc	bc	cour cp	0
	Valencia ...	1017·4	59	ESE	2	r	1003·0	−5	57	−1	SE	5	–	r	7	16	63	56	c	cr	r	11·2
	Roche's Point	1022·0	59	SW	4	o	1009·6	*	55	+1	SSE	5	–	r	5	10	62	53	bc.c	o	cr	0
	Birr Castle ...	1017·1	64	SW	1	o	1009·6	*	55	0	SE	2	–	r	0	3	68	55	bc.c	c.o	o.cr	7·5
	Donaghadee ...	1017·0	59	NW	1	cgm	1011·9	−2	52	−3	SW	1	–	fo	1	Trace	63	49	bz	c.bm	bm.fo	4·5
	Liverpool (Bidston)	1018·1	60	WNW	1	b	1013·5	−3	52	−4	SE	1	–	m	1	–	64	52	c.c	b	cm	9·5
	Holyhead ...	1018·2	61	WSW	2	bz	1013·1	−2	57	0	SSW	4	SW	cmg	3	–	62	52	cf cf	cf bc.b	bf.bc.o	7·0
	Pembroke (St. Ann's)	1019·8	57	WSW	2	c	1013·3	−3	56	0	S	2	S	c	2	–	59	55	c	bc	c	6·2
	Scilly (St. Mary's)	1020·2	59	–	0	o	1012·0	−4	57	+1	SSE	4	SW	or	3	1	64	55	b	bc.c.o	bc.or	3·2
	Falmouth ...	1019·6	61	WNW	3	o	1012·9	−3	58	+1	S	1	–	o	2	–	67	54	bc.b	b.bc.o	o	9·1
	Jersey (St. Aubin)	1020·9	62	WNW	3	o	1015·7	*	59	−1	S	2	S	o	1	–	66	52	b	bc	o.bc.o	11·7
	Portland Bill ...	1019·4	59	SW	3	bc	1015·4	−2	58	−1	SW	2	SW	c	2	–	62	55	b.bcf	f bc.	bc.c	*
	Dungeness ...	1018·3	62	SW	3	c	1015·3	−1	59	+2	WSW	3	W	c	3	–	66	56	b.bc	bc.c	bc	*
	Dover	1018·0	61	SSW	3	c	1015·3	?	58	−2	SW	3	E	bc	2	6	67	51	b.bc.c.o	obr.c	c.bc	b.o
	Wick	1016·2	55	N	2	o	?1012·7	−1	51	−5	NW	3	–	o	2	0·4	61	43	cmp.bm	bm	bc.o	0
	Nairn	1016·3	58	NW	1	cg	1013·8	*	54	0	–	0	–	bc	0	10	61	49	cpr bc	cpr.c	cg	1·3
	Aberdeen ...	1016·0	58	SW	2	r	1013·3	−1	53	−2	NW	3	–	b	2	7	63	47	c.op	c.bfp	opf.c.b	3·6
	Leith	1015·1	64	W	2	bc	1013·2	−2	54	0	–	0	–	oz	*	–	68	50	bc.c	c.bc	b.bc	0
	Tynemouth ...	1016·9	59	E	2	bcm	1013·9	−1	54	−1	NW	1	N	cm	3	1	61	50	bcmp	bcmp	cm	*
	Spurn Head ...	1017·8	61	ESE	3	bcm	1014·7	−1	56	−1	W	2	–	bcm	4	–	66	53	bcm	bcm	cm	9·4
	Yarmouth ...	1017·2	61	S	2	bcm	1014·1	−5	55		NW	1	NW	bcm	2	12	66	52	obr	bcm	o.bcm	8·5
	Clacton-on-Sea	1017·9	63	S	2	c	1015·0	0	58	+2	W	2	–	m	1	2	70	54	bc	bc.cpt	c.o.bcm	8·9
	Nottingham ...	1017·4	64	WNW	3	o	1014·4	*	49	−1	SW	1	–	b	*	Trace	71	47	bc	cp.o	o.c.b	6·7
	Bath	1018·5	64	W	2	b	1014·9	*	57	+2	SSW	1	W	o	*	–	70	55	m.b.bc.c	bc.bz	z.bc.c.o	12·0
	Sth Farnborough	1017·6	67	SW	3	b	1014·8	−1	55	+2	–	0	W	omw	*	–	72	51	b.bc.	bc.b	b.bm	11·6
	London (Kew Obsy.)	1017·9	69	SW	2	b	1015·2	−2	57	+4	SW	2	–	om	*	–	71	53	bm.bz	bc.c.b	b.bcm	10·7
NORTHERN EUROPE.	Spitsbergen ...	1022·3	43	N	2	c	1023·1	0	36	−3	N	4	*	f	*	*	45	34				
	Vardö	1020·4	48	E	2	f	1020·4	0	48	−6	NE	2	–	o	2	*	54	48				
	Bodö	1008·6	70	E	2	b	1008·7	0	66	−4	E	1	–	b	1	–	75	57				
	Christiansund	1006·3	54	–	0	o	1005·9	0	52	+2	–	0	–	f	2	2	57	52				
	Skudesnaes ..	1009·2	54	NW	6	o	1005·6	0	55	0	N	3	–	o	3	1	55	52				
	Færder (X'iania Fjord)	1000·7	59	SW	1	r	1001·2	0	55	−4	N	4	–	o	1	2	63	57				
	The Scaw (Skagen)	1002·0	61	WSW	2	bc	1000·7	+1	61	+4	WNW	2	–	o	2	1	63	55				
	Blaavands Huk	1010·7	57	NW	7	bc	1007·7	0	55	−4	NW	6	–	r	6	Trace	59	53				
	Haparanda ...	1006·9	72	NNE	4	c	1008·0	+1	57	−7	NE	6	–	o	*	–	77	57				
	Hernösand ...	1003·8	59	NE	8	c	1002·3	+1	57	−7	NNE	6	–	o	8	11	66	57				
	Stockholm ...	1000·6	61	SW	2	o	999·9	0	61	0	S	2	–	bc	*	–	68	50				
	Wisby	1000·6	61	WSW	4	bc	1000·4	0	63	+4	WSW	2	–	bc	3	–	64	55				
	Karlstad	1000·6	61	–	0	o	999·9	0	57	+3	–	0	–	r	*	1	68	54				
	Petrograd (5 a.m. G.M.T.)														*							
FRANCE, &c.	The Helder ...	1017·2	61	W	1	b	1014·6	0	59	0	W	1	–	b	1	–	63	57				
	C. Gris Nez ...	1019·0	62	WSW	4	c	1016·2	0	58	−2	SW	4	*	o	3	–	66	55				
	La Hève	1020·7	63	NW	2	b	1016·2	*	59	0	–	0	*	m	1	–	66	54				
	Ushant	1020·8	59	WNW	1	o	1013·5	*	57	−2	SW	2	*	c	3	–	73	54				
	Brest (St. Mathieu)	1022·0	66	NW	1	b	1015·1	−3	59	+3	SSE	3	*	c	2	–	73	57				
	Rochefort (Ile d'Aix)	1020·4	66	NW	4	b	1015·8	−2	61	+2	SE	3	*	b	*	–	72	54				
	Biarritz	1019·1	69	NNW	2	b	1013·9	−2	62	−2	ESE	3	*	b	2	–	75	56				
	Paris	1019·1	68	N	3	bc	1017·2	−1	59	0	–	0	–	bc	*	–	75	50				
	Belfort	1017·2	64	–	0	c	1019·1	*	55	−2	W	2	*	m	*	1	69	48				
	Lyons	1018·1	67	N	3	b	1018·6	*	59	−1	–	0	*	b	*	–	73	52				
	Nice												*									
	Perpignan ...														*							
	Sanguinaire ...							*					o									
SOUTHERN EUROPE.	Corunna (7 a.m.)	1018·6	70	NNE	5	b	1016·7	+1	63	0	S	3	–	o	1	–	70	57				
	Madrid (8 a.m.)	1012·8	82	NNE	1	b	1014·4	0	73	+5	E	2	–	bc	*	–	84	66				
	Lisbon (9 a.m.)	1016·0	72	NNW	5	b	1016·4	0	63	0	NNW	3	NW	b	3	–	81	61				
	Gibraltar	1014·9	74	SE	2	b	1014·9	*	74	+1	E	4	*	o	2	–	85	68				
	Rome														*							
	Malta (8 a.m.) ...	*	*	*	*	*	1014·1	+3	79		WNW	3	–	b	1	–	90	75				
	Azores (Horta, 8 a.m.)	1027·8	*	SW	4	bc	1024·8	0	70	+1	WNW	2	*	b	1	–	81	69				
	Madeira (Funchal)	1019·8	75	NE	3	b	1019·8	0	66	0	N	3	–	b	3	–	77	66				

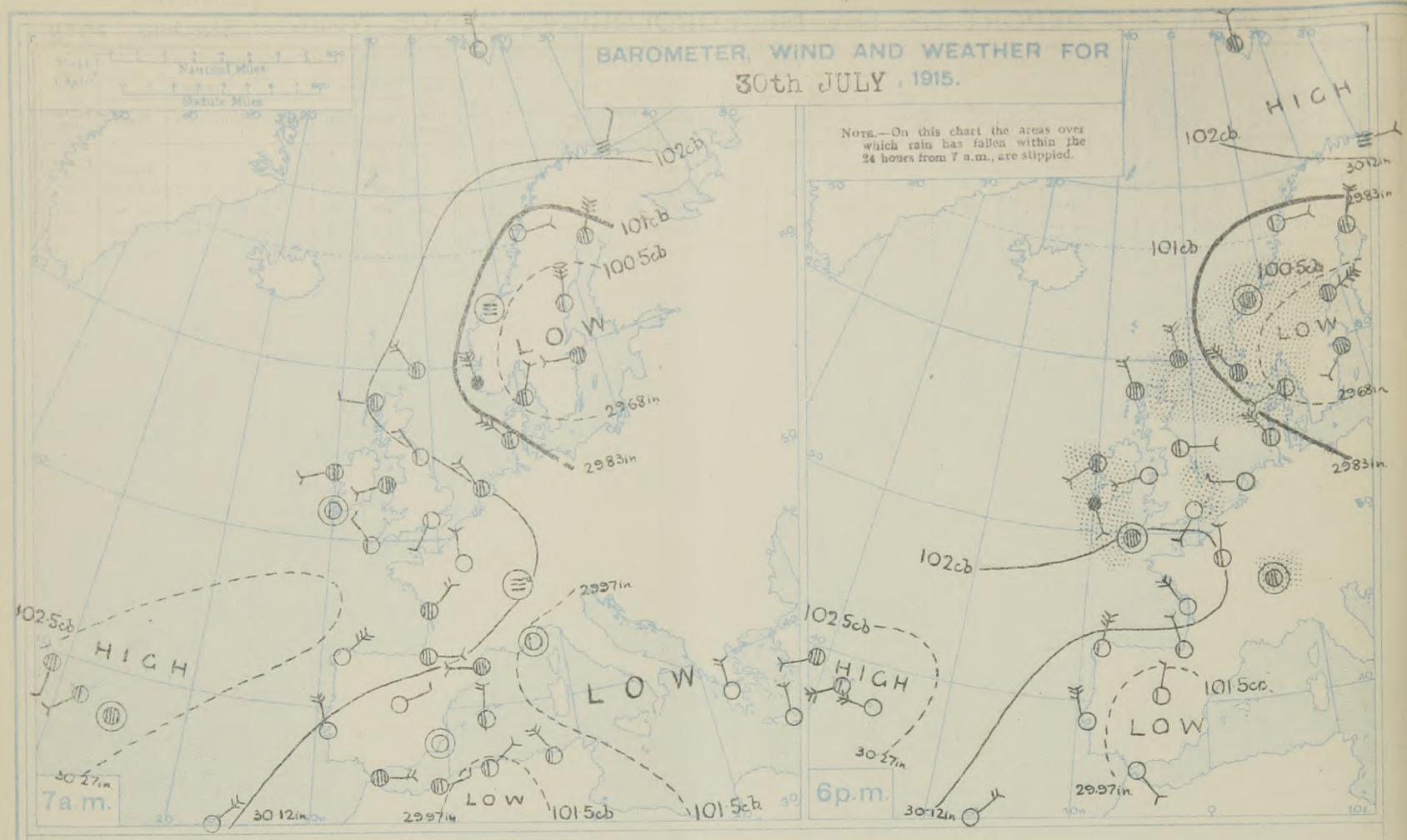
RAINFALL.

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 30th JULY, 1915.



FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.

STORM WARNINGS.

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

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

Cones hoisted at 2 a.m.

Western Channel and Bay 11

0 a b — North-Westerly breeze backing South-Westerly or Southerly and freshening somewhat; fair to dull and misty, some rain later; cool.

1

2 a b

3

4 a b — Westerly to Southerly and South-Easterly breezes, freshening later; cloudy to dull, some rain and mist; cool.

5

6 a b — Wind between South and East, becoming strong and squally, a gale locally; some rain, coast mist or fog; cool.

7 a b

8 a b

9 a b

10 a b

11 — Wind between South-West and South-East, strong and squally at times; sea rough; fair to dull, some rain, mist or fog; cool.

FURTHER OUTLOOK.

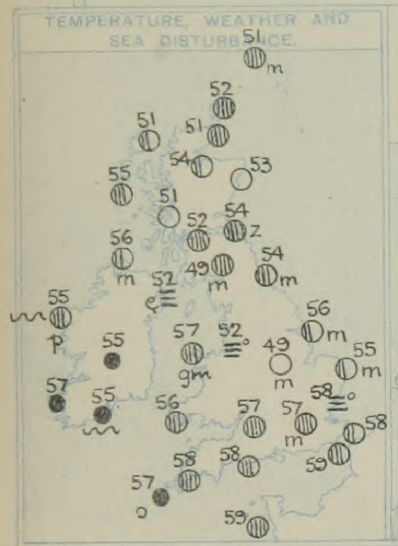
R. G. K. LEMPFERT, Superintendent, Forecast Division. W. NAPIER SHAW, Director.

SYNOPTIC CHART FOR 7 a.m., SATURDAY, 31st JULY, 1915.

GENERAL INFERENCE.

The depression in the west will occasion a less settled type of conditions over the country generally.

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.

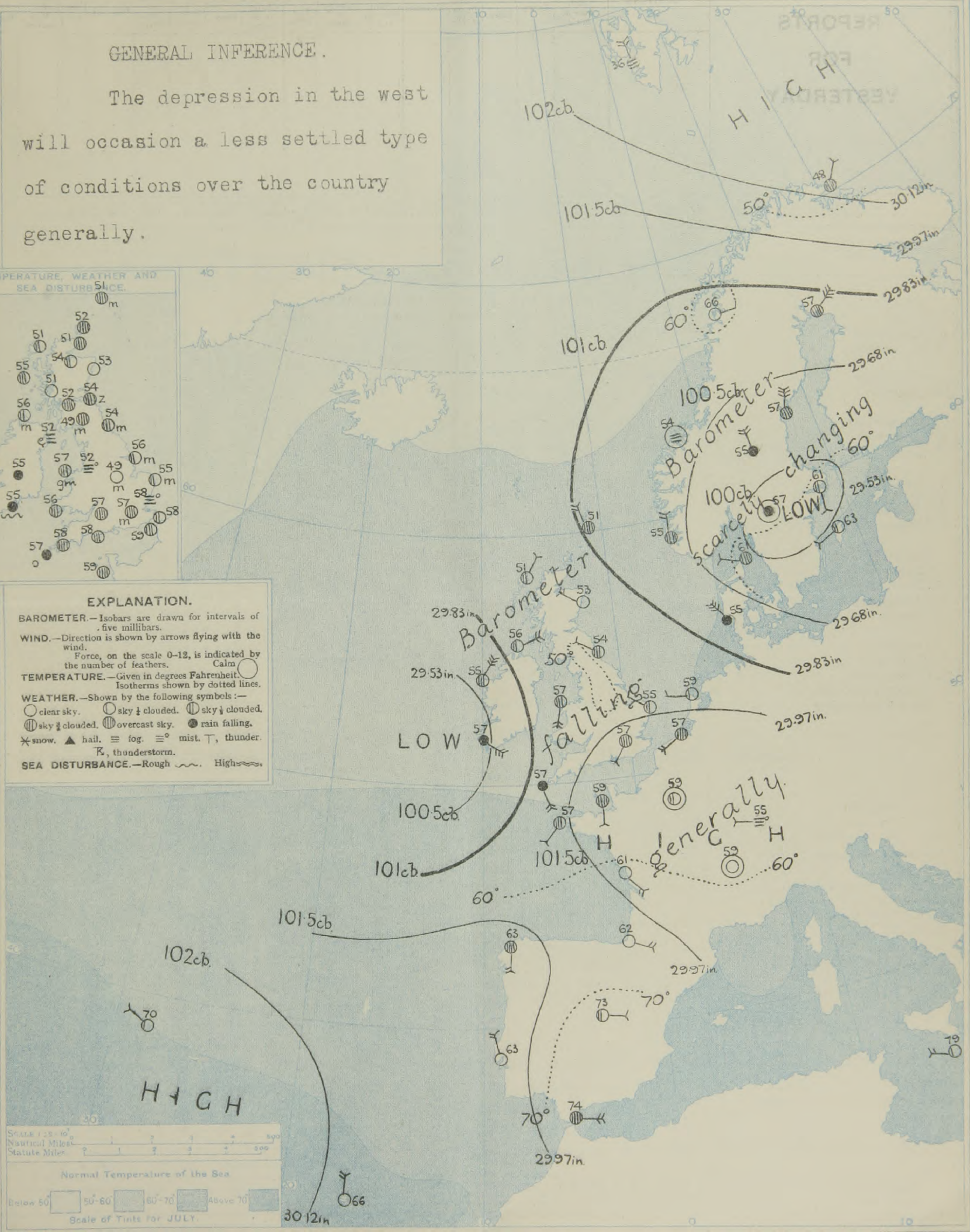
SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

Scale 1:28·10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 300

Normal Temperature of the Sea

Below 50° | 50°-60° | 60°-70° | Above 70°

Scale of Tints for JULY.



DAILY WEATHER REPORT.

Saturday, 31st July 1915.

REPORTS FOR YESTERDAY.

STATIONS.	EVENING OBSERVATIONS. Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	OBSERVATIONS AT 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.

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

	STATIONS.	Rainfall.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine to 6 p.m.
		mm.§	°F.	°F.			Hr.
Scotland.	Oban	-	60	43	b.bc	b	7.5
	Banff	0.3	60	48	c.bc	bc.c	3.4
	Carnoustie	8	64	46	b.cr	bc/p	5.0
	St. Andrews	1	66	46	*	*	7.6
Eng. N.E.	Harrogate	-	67	46	bc.b	bc bc	9.8
	Skegness	-	68	48	bc	c.o	9.5
Eng. N.W.	Morecambe	-	63	48	bc.b	b	8.2
	Blackpool	-	65	50	c	b	9.3
	Southport	-	63	52	o.c.bc.b	b	8.5
Midlands.	Buxton	-	65	50	bc	bc	4.6
	Leamington Spa	-	68	47	bc.c	bc.c	8.8
	Malvern	2	68	52	c.bc	bc	8.5
	Ross-on-Wye	1	70	43	bo.bc	cor7	8.0
Wales.	Rhyl	-	63	46	c.bc	b	8.0
	Colwyn Bay	-	63	50	c.bc	b	6.8
	Llandudno	-	70	50	b	b	7.7
	Aberystwyth	-	61	55	c.bc	c.o	6.0
	Tenby	-	67	50	bc	bc	3.2
England. E.	Cromer	-	65	53	w.bcm	bc.cm	8.4
	Lowestoft	1	64	51	bc.op7	c	9.0
	Felixstowe	3	70	52	bcm	or.tl	8.1
	Walton-on-Naze	38	68	51	bc	obr.c	7.4
	Southend-on-Sea	0.3	72	52	b.bc	bc.b.bc	7.7
England. S.E.	Tunbridge Wells	-	71	47	bc.b	bc	10.9
	Margate	-	69	52	b	c	8.9
	Ramsgate	-	67	49	bc	w	8.0
	Hastings	-	67	53	bc	o.bc.b	10.7
	Bexhill-on-Sea	trace	64	51	b	b	10.5
	Eastbourne	-	66	54	b	b	13.0
	Seaford	-	65	50	b	b	12.7
	Brighton	-	67	54	c.bc.b	bc.b	11.6
	Worthing	-	69	51	b	b	12.8
	Littlehampton	-	65	?	b	b	12.9
	Bognor	-	67	50	b	b	11.9
	Southsea	-	68	52	b	b	12.0
	Bournemouth	-	67	50	b	b	12.0
England. S.W.	Weymouth	-	67	52	b	b.bc	11.0
	Torquay	1	66	50	b.bc	p.c.o	6.3
	Paignton						
	Falmouth	-	67	50	bc.b	b.bc.o	9.1
	Penzance	-	68	52	bc	bc	9.8
	Newquay	-	62	54	b	br.c.	8.0
	Ilfracombe	-	62	54	bc.b	b.bc.	7.7
	Weston-super-Mare	-	66	50	bc.b	b.bc	9.5

LONDON OBSERVATIONS.

STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m. To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Forenoon.	Weather. Afternoon.	Weather. Night.
				24 Hours ended 9 A.M. To-Day.						
	%	%	Hr.	°F.	°F.	°F.	mm.§			
Greenwich (Royal Obsy.)	50	78	10.5	73	53	47	-	bc	bc	bc.o
City (Bunhill Row)	*	*	10.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	60	87	10.2	71	54	50	-	bc	o.bc	bc.o
Camden Sq. (Brit. Rainfall)	52	75	9.6	75	53	50	-	b	b.bc	*
Hampstead (Reservoir)	*	92	12.0	70	50	57	-	bc	bc	o
Richmond Park	*	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	95	78	10.4							

Vertical Component of Solar Radiation per square centimetre during Yesterday.

Total.	Average Rate.	Max. Rate.
1792 Joules	32.1 Milliwatts.	79 Milliwatts.

Additional Observations for Yesterday.

STATIONS.	Rainfall.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Night Min. on Grass.	Weather. Night.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for Yesterday.
	mm.§	°F.	°F.	°F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.	-	69	49	45	bc.ouw	c.b	bc	8.2
Manchester ,,	-	69	50	*	o	o.c.b	b3	5.2
Birmingham ,,	2	68	49	36	o.c	b.bc.c	cr.c	8.5
Oxford to 8 p.m.	*							*
Teignmouth to 9 ,,	-	67	47	45	b	b.bc	c	7.1
Plymouth ,,								
S. Kensington (Museum Grounds to 6 p.m.)	-	70	54	50	b	b3.bc	c.bc.b	*

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

31st July & 1st Aug., 1915.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	4.10 / 4.13	11.59 / 11.59	7.47 / 7.48
Greenwich	4.22 / 4.26	12.1 / 12.2	7.40 / 7.38
Wick	4.1 / 4.3	12.19 / 12.18	8.35 / 8.33
Valencia	5.1 / 5.3	12.47 / 12.47	8.33 / 8.32

NOTES ON YESTERDAY'S WEATHER.

Temperature was a little higher than of late, a few stations exceeding 70°. Thunderstorms occurred in various parts of England, and rain fell in scattered localities, 16 mm. at Valencia. Sunshine records were considerable, more than 14 hours at Glasgow

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

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

ADDITIONS AND CORRECTIONS

TO THE

DAILY WEATHER REPORT.

JULY, 1915.

Corrections and additions for the month of July are given on this sheet for stations in the British Isles, Scandinavia, Holland, France and "Southern Europe." The data for stations in Iceland will be issued in due course in the form of a separate sheet. Completed maps will eventually be published in the Weekly Weather Report of the Meteorological Office.

Reports which arrived within 24 hours of the date to which they referred were inserted on Page 4 of the Daily Weather Report of the following day.

ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.								PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind.		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp.		Weather.			
				Direc.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
3.	Sanguineire	1010·6	72	NW	3	bc	1013·2	"	70	+2	WSW	2	"	m	4	–	78	63	.	.	.	.
	Rome	1010·0	68	N	2	o	1010·6	"	70	+7	N	3	"	bc	"	–	77	61	.	.	.	.
	Malta	"	"	"	"	"	1012·6	"	70	−2	NW	4	"	c	3	–	75	68	.	.	.	.
4.	Ushant	1017·9	64	E	1	c	1012·7	"	64	+3	SSE	2	"	o	3	–	72	54	.	.	.	.
5.	Rome	1015·9	73	SW	1	b	1018·0	"	73	0	NW	1	"	b	"	–	84	64	.	.	.	.
6.	Rome	1021·6	79	–	0	o	1019·0	"	75	+2	–	0	"	b	"	–	86	66	.	.	.	.
7.	Petrograd	1019·8	63	NE	1	b	1020·0	"	64	+3	NW	2	"	b	"	–	68	54	.	.	.	.
	Rome	1019·3	75	–	0	b	1020·0	"	75	0	–	0	"	b	"	–	75	57	.	.	.	.
8.	Rome	1019·0	75	SW	1	b	1018·9	"	72	−3	NW	1	"	b	"	–	84	64	.	.	.	.
9.	Rome	1018·6	75	–	0	b	1018·0	"	73	+3	–	0	"	b	"	–	88	68	.	.	.	.
10.	Lisbon	1019·9	63	NNW	4	b	1019·9	+1	68	+7	NNW	4	"	b	2	–	73	61	.	.	.	.
	Rome	1016·8	75	–	0	b	1016·8	"	75	0	–	0	"	b	"	–	90	66	.	.	.	.
11	Rome	1016·6	75	–	0	b	1015·8	"	77	+2	–	0	"	b	"	–	88	64	.	.	.	.
12	Skudesnaes	997·9	54	W	2	o	997·1	"	54	0	WNW	1	"	o	2	1	57	50	.	.	.	.
	Rome	1013·9	75	SW	1	b	1014·0	"	77	0	–	0	"	b	"	–	88	70	.	.	.	.
13	Rome	1014·3	75	SW	1	b	1014·7	"	73	−4	N	1	"	b	"	–	86	66	.	.	.	.
14	Ushant	1012·8	59	W	2	bc	1013·0	"	59	+3	WSW	5	"	o	3	1	64	54	.	.	.	.
	Rome	1014·4	77	SE	1	b	1011·4	"	81	+8	S	1	"	b	"	–	90	73	.	.	.	.
15.	Biarritz	1016·0	68	NE	2	b	1015·8	"	66	+2	W	2	"	c	2	–	73	61	.	.	.	.
	Rome	1011·7	73	S	1	b	1012·6	"	73	−8	–	0	"	o	"	–	86	66	.	.	.	.
16.	Karlstad	1002·6	61	SSE	4	c	997·2	−4	54	−7	E	6	"	r	"	19	66	52	.	.	.	.
	Rome	1012·4	73	SW	1	b	1012·4	"	77	+4	S	1	"	bc	"	–	82	68	.	.	.	.
18.	Rome	1013·7	75	S	1	b	1011·4	"	77	+2	S	1	"	o	"	–	84	72	.	.	.	.
19	Rome	1011·8	73	SW	1	b	1013·5	"	72	−5	N	2	"	b	"	–	82	64	.	.	.	.
20	Haparanda	1011·8	72	S	2	o	1011·8	"	64	−8	SW	2	"	o	"	1	81	63	.	.	.	.
	Hernösand	1011·5	63	WNW	2	b	1012·7	"	61	+4	NW	2	"	b	"	1	64	50	.	.	.	.
	Stockholm	1011·8	64	S	2	b	1012·2	"	61	+2	W	2	"	o	"	–	70	54	.	.	.	.
	Wisby	1013·7	63	W	2	b	1014·7	"	61	−2	W	2	"	c	"	Trace	66	57	.	.	.	.
	Karlstad	1011·7	59	NNW	2	o	1013·1	"	57	+2	SW	2	"	bc	"	1	61	54	.	.	.	.
21	Petrograd	1013·7	69	WNW	2	o	1015·3	"	67	−5	W	3	"	bc	"	1	82	63	.	.	.	.
	Biarritz	1021·9	69	WSW	2	b	1021·9	"	66	−1	E	2	"	bc	2	–	72	63	.	.	.	.
	Rome	1017·9	72	NW	1	b	1017·9	"	70	+2	N	1	"	b	"	–	81	61	.	.	.	.
23	Haparanda	1002·7	68	ENE	4	r	1006·9	"	61	−5	S	6	"	o	"	3	73	59	.	.	.	.
	Hernösand	1005·8	61	S	2	bc	1007·7	"	63	+4	S	2	"	b	"	–	63	55	.	.	.	.
	Stockholm	1008·4	64	WSW	2	o	1011·8	"	64	+3	SSW	2	"	c	"	Trace	68	52	.	.	.	.
	Wisby	1011·8	63	SW	4	b	1013·6	"	64	+3	S	4	"	b	4	Trace	66	52	.	.	.	.
	Karlstad	1008·7	63	SW	4	c	1008·4	"	61	+2	SSE	4	"	o	"	?	?	?	.	.	.	.
	Rome	1017·3	73	SW	1	b	1018·1	"	70	0	NW	1	"	f	"	–	84	64	.	.	.	.
24	Lyons	1015·4	61	–	0	r	1015·7	"	60	−12	–	0	"	o	"	11	77	55	.	.	.	.
	Rome	1016·7	75	NNW	1	b	1013·7	"	75	+5	–	0	"	b	"	–	86	66	.	.	.	.
25	Petrograd	1016·0	72	ENE	3	b	1013·1	"	73	+7	E	3	"	b	"	10	79	64	.	.	.	.
	Rome	1010·0	77	S	1	bc	1009·5	"	77	+2	SW	1	"	b	"	–	86	72	.	.	.	.
26	Rome	1012·7	73	SW	1	b	1013·5	"	72	−5	NE	1	"	b	"	–	84	64	.	.	.	.
27	Petrograd	1005·0	51	ESE	3	bc	1004·3	"	73	+1	E	4	"	b	"	–	84	70	.	.	.	.
	Rome	1016·0	73	SW	1	b	1016·2	"	73	+1	N	1	"	b	"	–	84	64	.	.	.	.
28	Petrograd	1007·3	76	E	4	bc	1010·9	"	72	−1	NE	1	"	bc	"	–	86	70	.	.	.	.
	Rome	1017·9	75	SW	1	b	1018·6	"	82	+9	NW	1	"	b	"	–	86	70	.	.	.	.
29	Vardö	1019·0	55	E	1	b	1019·8	"	52	−9	ENE	1	"	f	2	"	"	"	.	.	.	.
	Rome	1018·7	77	W	1	b	1017·5	"	75	−7	NW	1	"	b	"	–	84	64	.	.	.	.
30	Petrograd	1001·9	66	W	4	bc	999·8	"	66	−2	W	3	"	bc	"	–	75	64	.	.	.	.
	Rome	1015·5	77	S	1	10	1015·5	"	72	−3	N	1	"	o	"	–	90	68	.	.	.	.
31.	Perpignan	1017·1	73	W	4	b	1017·0	"	66	0	–	0	"	b	"	–	81	54	.	.	.	.
	Sanguineire	"	79	NW	3	f	"	"	75	.	E	2	"	m	5	–	82	68	.	.	.	.
	Rome	1013·0	75	SW	1	o	1012·7	"	75	+3	NW	1	–	b	"	Trace	82	66	.	.	.	.

REPORTS FOR JULY, 1915.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.									PAST 24 HOURS.						Sunshine for Yesterday.
		Barom. Millibars at M.S.L.	Temp.	Wind		Weather.	Barometer.		Temp.		Wind.		Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp.		Weather			
				Direc.	Force 0–12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb	Change in 24 hours.	Direc.	Force 0–12.					Max.	Min.	Morning.	Afternoon.	Night.	
			°F.					,	°F.	°F.							°F.	°F.				Hours.
1.	Spitsbergen																					
	Vardö																39					
	Bodö																52					
3.	Bodö																49					
	Ushant																?					
	Brest																	59				
4	Lerwick	1017·2					1012·9											60				
	C. Gris Nez																	49				
	Brest																	60				
	Biarritz																	61				
	Horta																	64				
5.	Spurn Head																	61				
	Nottingham																65					
	Christiansund															49						
6	Roche's Point		63															55				
	Nairn																				c.bc	
	Nottingham								58	0												
9.	Donegladee						1021·3															
10.	Aberdeen											3										
11.	Glasgow	1011·7																				
	Jersey						1017·7															
12	Christiansund.						997·7				–	0		c				52				
13	Glasgow							0										46				
	La Hève	1013·7					1012·2															
14	Spitsbergen																48					
	Rochefort																73					
	Coruña														3							
15.	Portland.															2						
	Vardö								57	+11												
16.	Deerness																58					
	Christiansund.										NE											
	Wisby						1001·2	4	63	+2	S	4	–	c	8	1	66	55				
17.	Roche's Point	993·1					1006·6															
	Pembroke																61					
	Dover								58	+1												
	Cleton-on-Sea															17						
	South Farnborough			SSE																		
	Madrid								73	0												
	Horta																	69				
18.	Malin Head																					7·0
19.	Jersey																65					
	Yarmouth																					13·3
	The Scaw													r								
	La Hève						1025·6															
20.	Dungeness						1015·0															
	South Farnborough																		o	c.b	bc.bp.c	
21	Nairn														2							
22	Lerwick															0·4						
	South Farnborough															0·3						
	Blaavands Huk.																61					
23	Roche's Point																			c.bc		
	Pembroke						997·5															
	Vardö																55					
	Belfort						1012·3															
24	Roche's Point																				bc.b.c	
25.	Lerwick																56					
	Deerness	1005·1																				
	Glasgow																		crph			
26	Lerwick															43						
	Castlebay																					? 12·0
	Roche's Point																			ogtp.c		–
	Pembroke															5		55				
27.	Lerwick															0·3						

CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	THIS MORNING 7 A.M., G.M.T. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	PAST 24 HOURS. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for Yesterday.
			°F.						°F.	°F.							°F.	°F.				Hours.
	South Farnborough	1010·5																	c		bc. op	
28	Roche's Point										W											
	Leith						1007·0															
	Clacton-on-Sea								55													
29	Pembroke						1021·8															
30	Roche's Point	1022·3																				
	Pembroke	1020·2																				
	Spurn Head														3		63	55				
	Bodö								70	+15												
31	Roche's Point	1020·0																				
	Wick						1012·7															
	Brest																	56				

LONDON OBSERVATIONS.

	STATIONS.	Humidity. 3 p.m. Yesterday.	Humidity. 9 a.m To-day.	Sunshine for Yesterday.	Temperature. In Screen. Max.	Temperature. In Screen. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Fore-noon.	Weather. After-noon.	Weather. Night.
					24 Hours ended 9 A.M. To-Day.						
		%	%	Hr.	°F.	°F.	°F.	mm.§			
2	Richmond Park			4·2					b	b	b
3	Westminster	52	61		75	60	54	–	bc	bc	bc
4	Westminster	57	61		81	64	59	–	bc	bc	bc
5	Westminster	48	73		83	60	56	–	bc	bc	bc
6	Westminster	42	67		77	56	51	–	bc	bc	bc
7	Westminster			7·0							
9	Westminster			0·2							
11	Westminster					58					
15	Greenwich			4·7							
	Hampstead							29			
	Richmond Park			5·0							
16	Greenwich			11·9							
	City			11·8							
19	Westminster			7·0							
21	Richmond Park			11·3							
29	Richmond Park			11·9							
31	Richmond Park			11·0							

GALES

Duration and Extreme Force in British Islands

Date.	ADDITIONS.	Date.	CORRECTIONS.
		17	Blacksod Point. 16h 11a.m – 17h 4a.m ESE 8 NNE 8.
		19	Blacksod Point 18h Midt. – 19h 3a.m SSW 8.