

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER, 1902.

DAILY WEATHER REPORT.

July to December 1902.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE

(CONTINUED).

OCTOBER.

NOVEMBER.

DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871-1900.	TEMPERATURE OF AIR. 1871-1900.								RAINFALL.		BRIGHT SUNSHINE.	
		Means of				Absolute Extremes.				Means for		Means, 1881-1900.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Date.	Minimum.	Date.	Days with Rain.	Total Fall.	Average Duration.	Per cent. of possible.
Sumburgh Head	(Inches.) 29.721	45.9	44.3	49.8	41.6	61	1898	26	1875	24	4.43	(Hours.) —	—
Stornoway	29.752	45.4	44.4	51.1	40.3	70	1898	26	1880	24	5.31	87.0	28
Malin Head	29.803	48.4	46.3	52.6	45.6	[69]*	[1898]	[32]*	[1892]	[21]*	[2.99]*	—	—
Blacksod Point	29.851	49.5	46.6	54.1	45.9	[70]*	[1898]	[33]*	[1892]	[23]*	[5.20]*	—	—
Valencia	29.885	51.0	48.9	56.4	46.3	69	1898	28	1892	23	5.61	104.4	32
Roche's Point	29.886	50.1	48.3	55.8	46.0	65	1880, 84, 86	32	1881	16	4.21	—	—
Parsonstown	29.883	45.5	44.0	54.7	40.5	69	1898	22	1880	18	3.06	99.9	31
Donaghadee	29.843	47.8	46.5	53.7	43.5	66	1898	21	1892	18	3.14	—	—
Liverpool	29.872	47.7	45.6	53.8	44.5	72	1886	27	1885	18	3.52	—	—
Holyhead	29.863	50.2	48.1	54.7	46.9	71	1886	32	1892	20	4.33	—	—
Pembroke	29.880	51.2	49.2	54.9	47.9	66	1872, 1886	33	1895	20	4.14	104.9	32
Scilly	29.897	53.8	51.7	56.9	50.1	69	1895	28	1895, 96	21	3.73	—	—
Jersey	29.926	53.7	50.9	58.6	48.9	73	1876, 1898, 1900	33	1887	19	4.47	130.0	40
Portland Bill†	[30.029]	[53.4]	[51.3]	[58.5]	[49.2]	—	—	—	—	[12]	[1.72]	—	—
Dungeness	29.908	50.4	48.6	56.6	46.2	70	1886	23	1890	16	3.23	—	—
Wick	29.755	46.2	44.6	51.8	40.4	73	1898	22	1885	21	3.11	—	—
Nairn	29.773	44.6	42.8	52.2	39.8	72	1898	19	1896	18	2.43	—	—
Aberdeen	29.791	45.7	43.6	52.5	41.2	74	1883	25	1880	20	3.00	98.9	31
Leith	29.814	46.4	44.6	54.6	41.5	70	1898	25	1894	16	2.09	—	—
North Shields	29.836	46.9	45.2	53.4	42.2	68	1898	27	1890, 92, 95	17	2.75	—	—
Spurn Head	29.857	48.9	47.4	53.6	45.6	[70]*	[1900]	[33]*	[1887, 95]	16	2.34	—	—
Yarmouth	29.884	49.2	47.6	54.4	44.6	74	1900	27	1895	18	2.98	—	—
Loughborough	29.897	45.4	44.2	55.8	40.8	[77]*	[1886]	[20]*	[1890]	17	2.76	—	—
Oxford	29.916	46.1	44.8	55.6	42.1	76	1886	22	1873	15	2.76	102.7	32
LONDON	29.918	47.6	46.0	56.8	42.9	80	1886	24	1890	16	2.70	70.6†	22†
Sumburgh Head	29.710	42.6	41.0	46.1	38.5	55	1890	21	1875	24	4.12	—	—
Stornoway	29.720	42.5	41.5	46.8	37.4	58	1897	20	1880	23	5.28	40.6	16
Malin Head	29.773	44.3	42.5	48.3	41.2	[50]*	[1894, 99]	[31]*	[1889]	[20]*	[3.08]*	—	—
Blacksod Point	29.819	45.7	43.7	49.7	41.7	[60]*	[1897, 99]	[26]*	[1890]	[24]*	[5.22]*	—	—
Valencia	29.883	47.6	45.6	52.4	43.0	63	1881	27	1890, 96	22	5.67	65.8	26
Roche's Point	29.888	46.5	45.0	51.4	42.3	61	1875	27	1890	19	4.65	—	—
Parsonstown	29.869	42.0	40.6	49.4	37.2	63	1872	20	1890	19	2.97	63.8	25
Donaghadee	29.838	43.9	42.7	48.8	39.7	60	1894	27	1878, 83	19	3.12	—	—
Liverpool	29.883	43.0	41.2	48.3	40.0	63	1872	23	1880	17	2.71	—	—
Holyhead	29.865	46.2	44.4	50.0	43.0	62	1881	29	1880	20	3.96	—	—
Pembroke	29.890	47.4	45.7	50.6	43.9	58	1884, 95, 97, 99	28	1890	20	3.94	60.9	24
Scilly	29.911	50.3	48.3	53.0	46.6	61	1898	29	1890	21	3.65	—	—
Jersey	29.953	48.2	46.1	52.6	44.4	66	1899	16	1890	19	4.07	73.5	27
Portland Bill†	[29.969]	[49.9]	[47.7]	[53.3]	[45.3]	—	—	—	—	[14]	[3.65]	—	—
Dungeness	29.923	45.0	43.6	50.1	41.1	63	1899	17	1890	17	2.57	—	—
Wick	29.743	42.0	40.6	46.7	36.8	62	1900	15	1884	20	2.89	—	—
Nairn	29.761	40.5	38.9	46.3	35.6	61	1885, 94	18	1880, 98	17	2.13	—	—
Aberdeen	29.792	41.1	39.3	46.6	37.1	62	1872, 89	15	1880, 84	20	3.06	52.7	22
Leith	29.817	42.3	40.5	48.5	37.5	64	1872	18	1885	16	2.07	—	—
North Shields	29.844	42.8	41.2	48.0	38.4	62	1881, 94	20	1880	17	2.33	—	—
Spurn Head	29.874	43.8	42.5	47.5	40.7	[61]*	[1894, 95]	[28]*	[1884]	17	2.19	—	—
Yarmouth	29.898	43.7	42.5	48.0	39.5	60	1895, 98, 99	23	1890	19	2.78	—	—
Loughborough	29.910	40.9	39.7	48.6	37.0	[64]*	[1900]	[19]*	[1887, 93]	17	2.14	—	—
Oxford	29.928	41.0	40.4	48.8	37.9	68	1881	19	1871, 87	15	2.39	56.4	22
LONDON	29.931	42.8	41.3	49.8	38.5	65	1894	19	1879	16	2.29	27.7†	11†
Sumburgh Head	29.647	40.1	38.6	43.2	35.9	53	1890	19	1877	26	4.46	—	—
Stornoway	29.671	40.0	39.0	43.7	34.6	55	1893	15	1880	28	5.68	23.9	12
Malin Head	29.748	41.6	40.1	45.4	38.3	[55]*	[1900]	[31]*	[1886, 87, 91, 92, 94, 96, 99]	[24]*	[3.36]*	—	—
Blacksod Point	29.803	43.2	41.3	47.2	39.2	[59]*	[1899]	[26]*	[1896]	[27]*	[6.12]*	—	—
Valencia	29.880	45.4	43.2	50.1	40.6	57	1884, 88, 99, 1900	24	1886	25	6.34	42.6	18
Roche's Point	29.894	44.0	42.8	48.5	39.9	58	1873	25	1882	20	5.47	—	—
Parsonstown	29.872	38.8	37.6	45.5	34.0	58	1877, 1900	8	1878	29	3.17	44.7	20
Donaghadee	29.823	40.8	40.0	46.1	36.6	56	1885, 88, 94	20	1879	21	2.96	—	—
Liverpool	29.881	39.4	37.7	44.2	36.1	59	1891, 98, 1900	13	1878	18	2.64	—	—
Holyhead	29.864	43.2	41.6	46.8	39.5	56	1872, 88	25	1874	20	3.94	—	—
Pembroke	29.903	44.4	43.0	47.4	40.9	57	1898	19	1890	21	4.17	44.0	19
Scilly	29.936	47.7	45.8	50.3	43.8	58	1899, 1900	30	1890	22	4.19	—	—
Jersey	29.992	44.0	42.2	48.1	40.1	61	1876	19	1871	20	3.88	62.3	25
Portland Bill†	[29.911]	[45.2]	[43.9]	[48.9]	[39.8]	—	—	—	—	[21]	[3.50]	—	—
Dungeness	29.952	40.8	39.5	45.2	36.3	56	1880, 97, 98, 1900	12	1890	17	2.11	—	—
Wick	29.684	38.7	37.5	42.9	33.4	56	[1898]	10	1880	22	3.18	—	—
Nairn	29.713	37.5	36.0	42.6	32.4	58	1900	10	1882	18	2.16	—	—
Aberdeen	29.747	37.5	35.8	42.4	33.3	58	1873	6	1882	20	3.23	38.2	19
Leith	29.782	39.1	37.6	44.5	34.1	60	1896	0	1882	15	1.95	—	—
North Shields	29.825	38.9	37.5	43.6	34.3	59	1873, 98	10	1878, 79	16	2.34	—	—
Spurn Head	29.864	39.4	38.2	43.1	35.8	[56]*	[1898]	[19]*	[1891]	17	2.07	—	—
Yarmouth	29.911	38.6	37.5	42.7	34.2	56	1873	15	1879	17	2.47	—	—
Loughborough	29.914	36.9	35.9	43.5	32.8	[59]*	[1888, 1900]	[7]*	[1890]	15	2.35	—	—
Oxford	29.950	37.6	36.5	43.7	34.0	58	1888, 97	6	1878	16	2.18	41.6	18
LONDON	29.953	38.5	37.3	44.7	34.4	58	1873, 88, 91, 98	11	1878	15	2.15	13.1†	5†

* These values are from observations made during the following periods:—Spurn Head and Loughborough, 20 years, 1881-1900; Malin Head and Blacksod Point (Belmullet), 15 years, 1886-1900.
† The Sunshine values are for Westminster.

‡ The values for Portland Bill are for two years only, 1899-1900.

SUPPLEMENT TO THE DAILY WEATHER REPORT.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE SIX MONTHS, JULY TO DECEMBER.

JULY.

AUGUST.

SEPTEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871-1900.	TEMPERATURE OF AIR. 1871-1900.								RAINFALL.		BRIGHT SUNSHINE.	
		Means of				Absolute Extremes.				Means for		Means, 1881-1900.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Date.	Minimum.	Date.	Days with Rain.	Total Fall.	Average Duration.	Per cent. of possible.
Sumburgh Head	29.806	53.4	51.7	57.6	48.3	70	1897	37	1888	17	2.33	—	—
Stornoway	29.822	55.5	53.7	60.3	49.1	76	1894	32	1888	21	2.97	140.8	28
Malin Head	29.873	56.1	54.0	61.0	53.6	[75]*	[1887]	[42]*	[1888]	[19]*	[2.87]*	—	—
Blackod Point	29.914	57.8	55.2	62.4	53.8	[80]*	[1894]	[42]*	[1898]	[21]*	[2.94]*	—	—
Valencia	29.960	59.2	56.6	64.0	53.8	80	1878	42	1898	20	3.95	154.4	31
Roche's Point	29.957	59.0	56.1	65.8	53.7	84	1876	45	1888	15	3.60	—	—
Parsonstown	29.937	58.1	55.0	66.4	51.7	89	1876	37	1889	17	2.25	139.2	28
Donaghadee	29.904	57.4	55.5	63.5	52.1	81	1876	40	1883	18	2.85	—	—
Liverpool	29.927	59.5	56.6	66.0	54.3	89	1873	41	1877	16	2.77	—	—
Holyhead	29.932	58.3	56.0	63.8	54.1	83	1894	43	1888	10	2.46	—	—
Pembroke	29.956	58.2	56.2	62.7	54.9	80	1878	45	1888	14	2.42	205.3	42
Scilly	29.987	60.5	58.3	64.9	56.5	75	1886	48	1875	16	2.30	—	—
Jersey	30.015	62.5	59.1	68.6	56.5	90	1873	46	1877, 97	13	2.30	244.2	51
Portland Bill	[30.071]	[61.7]	[59.3]	[67.0]	[55.4]	—	—	—	—	[6]	[0.94]	—	—
Dungeness	29.965	61.9	58.6	67.0	56.1	82	1900	40	1890	12	1.62	—	—
Wick	29.835	56.0	53.7	61.8	48.9	81	1876	30	1886	18	2.54	—	—
Nairn	29.838	56.9	53.7	64.5	50.3	86	1876	37	1886, 97, 98	17	2.68	—	—
Aberdeen	29.852	57.8	53.8	63.7	50.7	86	1876	38	1898	18	2.82	165.0	32
Leith	29.867	58.6	55.0	66.6	51.4	90	1876	41	1887, 88, 92	16	2.76	—	—
North Shields	29.887	58.2	55.1	64.3	51.9	85	1876	40	1885	15	2.55	—	—
Spurn Head	29.914	59.6	56.9	65.1	55.0	[84]*	[1881, 1900]	[44]*	[1888]	13	1.70	—	—
Yarmouth	29.938	60.8	57.6	66.3	54.9	87	1881	42	1872, 90	15	2.69	—	—
Loughborough	29.947	60.9	57.2	71.4	52.6	[90]*	[1881]	[39]*	[1888]	15	2.24	—	—
Oxford	29.963	60.2	56.6	70.1	53.5	90	1876, 1900	41	1888	14	2.49	200.7	41
LONDON	29.971	62.2	57.7	72.7	54.2	95	1881	41	1877	13	2.27	174.7	36
Sumburgh Head	29.782	53.5	51.9	57.7	48.5	69	1880	38	1885, 95	18	3.25	—	—
Stornoway	29.794	55.1	53.5	60.2	49.1	75	1897, 99	33	1888	21	5.60	131.3	28
Malin Head	29.830	56.4	54.3	61.8	54.1	[80]*	[1900]	[40]*	[1891]	[21]*	[3.25]*	—	—
Blackod Point	29.878	58.1	55.5	62.7	54.1	[78]*	[1899]	[42]*	[1887-88]	[22]*	[3.08]*	—	—
Valencia	29.929	59.8	57.1	64.7	54.3	81	1899	42	1890	22	4.90	152.7	34
Roche's Point	29.932	59.1	56.6	65.7	54.2	80	1880	44	1883	16	3.94	—	—
Parsonstown	29.917	57.4	55.2	65.9	51.6	82	1893, 99, 1900	35	1885, 87	16	3.87	139.5	31
Donaghadee	29.881	57.1	55.3	62.8	52.5	78	1899	38	1886	19	3.30	—	—
Liverpool	29.908	58.8	55.3	65.8	54.3	85	1876, 84, 93, 99	44	1886	17	2.96	—	—
Holyhead	29.909	58.6	56.5	64.0	54.8	83	1893	45	1888	16	3.02	—	—
Pembroke	29.902	58.9	56.8	63.3	55.8	78	1874, 99	47	1885, 98	16	2.91	193.8	43
Scilly	29.932	61.2	59.0	65.3	57.1	75	1893, 99	50	1885, 90, 95	17	2.49	—	—
Jersey	29.905	63.2	59.8	69.1	57.4	89	1893	45	1890	14	2.48	244.8	56
Portland Bill	[30.042]	[62.2]	[59.7]	[68.5]	[55.7]	—	—	—	—	[11]	[1.57]	—	—
Dungeness	29.953	62.1	58.9	67.5	56.6	80	1887, 94	39	1890	13	1.81	—	—
Wick	29.813	55.5	53.5	61.4	48.6	85	1893	30	1898	18	2.61	—	—
Nairn	29.817	56.0	53.2	63.9	49.9	88	1899	33	1885, 91	18	2.88	—	—
Aberdeen	29.835	56.7	53.5	63.1	50.2	81	1880, 82, 99	33	1885	18	3.03	153.3	33
Leith	29.848	57.7	54.6	66.0	51.4	85	1893	37	1874	16	2.72	—	—
North Shields	29.871	57.3	54.7	64.0	51.8	83	1893	39	1892	16	2.83	—	—
Spurn Head	29.904	59.4	56.8	64.7	55.0	[87]*	[1893]	[46]*	[1887, 90, 1900]	15	1.87	—	—
Yarmouth	29.929	60.6	57.6	66.3	54.8	85	1893	42	1876, 85	14	2.26	—	—
Loughborough	29.935	60.1	56.2	70.4	52.0	[91]*	[1893]	[38]*	[1885, 87, 88]	14	2.46	—	—
Oxford	29.954	60.9	56.0	69.4	53.0	90	1876	39	1892	13	2.38	185.7	42
LONDON	29.961	61.0	57.4	71.9	53.7	96	1876	39	1887, 90	13	2.30	165.9	37
Sumburgh Head	29.783	50.8	49.1	54.9	46.2	69	1898	34	1887, 88	20	3.48	—	—
Stornoway	29.800	51.5	50.2	56.7	45.7	72	1898	32	1871, 75, 85	21	4.17	107.4	28
Malin Head	29.834	53.7	51.4	58.5	51.1	[78]*	[1898]	[38]*	[1886]	[21]*	[3.11]*	—	—
Blackod Point	29.865	55.3	52.9	59.8	51.6	[78]*	[1898]	[39]*	[1890]	[21]*	[3.09]*	—	—
Valencia	29.903	56.6	54.2	61.9	51.4	79	1898	35	1899	19	4.34	133.4	36
Roche's Point	29.906	55.8	53.7	61.9	51.3	74	1880	39	1893	14	3.62	—	—
Parsonstown	29.947	52.9	51.0	61.9	47.3	79	1890, 98	29	1890	17	2.92	139.2	35
Donaghadee	29.913	53.7	52.4	60.1	49.3	74	1898	36	1882, 94, 99	17	2.80	—	—
Liverpool	29.944	54.8	52.1	61.5	50.9	82	1880	39	1885	16	3.12	—	—
Holyhead	29.939	55.9	53.7	60.8	52.3	78	1880	43	1873, 85, 97	16	3.04	—	—
Pembroke	29.962	56.4	54.2	60.4	53.2	74	1895	40	1885	16	3.24	148.3	44
Scilly	29.983	58.8	56.6	62.4	54.9	73	1899	44	1885, 88	17	3.15	—	—
Jersey	30.008	60.4	57.2	66.0	55.0	86	1895	41	1891	15	3.04	184.9	50
Portland Bill	[30.038]	[59.0]	[57.0]	[64.7]	[54.0]	—	—	—	—	[9]	[1.53]	—	—
Dungeness	29.981	58.0	55.5	64.0	53.0	78	1898, 99	32	1885	14	2.53	—	—
Wick	29.822	52.1	50.3	58.0	45.7	78	1898	29	1885, 87	19	2.70	—	—
Nairn	29.835	53.6	49.4	59.7	45.9	83	1898	25	1892	17	2.54	—	—
Aberdeen	29.850	52.5	49.9	59.4	46.6	81	1898	30	1887	17	2.87	124.0	33
Leith	29.880	53.5	50.9	62.1	47.5	83	1898	33	1886	15	2.19	—	—
North Shields	29.905	53.2	51.1	60.4	48.3	81	1898	34	1885, 82, 93	14	2.20	—	—
Spurn Head	29.941	55.7	53.8	60.9	52.4	[79]*	[1899]	[38]*	[1892]	14	1.80	—	—
Yarmouth	29.956	56.5	54.3	62.4	51.3	78	1899, 98	33	1885	15	2.57	—	—
Loughborough	29.975	58.5	51.7	65.5	47.5	[90]*	[1898]	[32]*	[1898]	14	2.44	—	—
Oxford	29.985	59.0	52.1	64.0	48.8	90	1898	33	1885	15	2.39	144.2	39
LONDON	29.991	59.8	53.4	66.8	49.7	91	1898	30	1877	13	2.21	116.0	31

* These values are from observations made during the following periods:—Spurn Head and Loughborough, 20 years, 1880-1900; Malin Head and Blackod Point (Belmullet), 15 years, 1885-1900.
† The Sunshine values are for Westminster.
‡ The values for Portland Bill are for two years only, 1890-1900.

DAILY WEATHER REPORT

for 8 a.m. on Monday 1st December

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.			
		At 32° and M.S.L.	Ins.	Dry Bulb.	Dirac.		Force (0 to 12.)	Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.			Dirac.	Force (0 to 12.)			Weather.	Max.	Min.
SCANDINAVIA.	Haparanda ...	30.25	-2	N	2	b	30.34	+21	-5	-6	-6	NW	4	b	*	-	14	-8	*	-		
	Hernösand ...	30.17	16	N	2	b	30.27	+26	14	12	-9	N	4	o	*	-	23	14	*	-		
	Stockholm ...	30.02	23	NW	4	s	30.09	+17	20	19	-1	N	4	o	*	-	27	16	*	0.04		
	Wisby ...	30.17	27	N	8	o	29.99	+09	24	23	-6	NE	6	s	*	-	32	23	*	0.08		
	Karlstad...	30.20	16	NNW	2	b	30.22	+15	13	13	0	NNW	2	b	*	-	*	*	*	-		
	Færder (X'iania Fjord)	30.19	25	NNE	2	b	30.21	+11	26	23	+3	NE	2	b	1	-	26	23	*	-		
	Bodö ...	30.17	31	E	2	o	30.27	+18	25	22	-4	E	2	b	1	-	31	23	*	-		
	Christiansund ...	30.08	27	ESE	2	b	30.14	+01	29	27	+1	ESE	2	b	3	-	29	27	*	-		
Skudesnaes ...	30.12	27	E	2	b	30.12	00	32	31	+6	ESE	2	b	3	b	32	25	*	*			
BRITISH ISLANDS.	Sumburgh Head ...	29.96	40	ESE	4	o	29.81	-10	40	38	-1	SE	6	o	6	o	42	37	*	-		
	Stornoway ...	29.70	46	SE	4	b	29.47	-20	43	39	-5	SE	6	b	6	bc,b	51	40	2.7	-		
	Malin Head ...	29.59	43	SE	6	b	29.25	-36	45	44	+1	SE	7	op	4	c,b	46	43	*	0.01		
	Blacksod Pt. ...	29.50	46	SE	5	bm	29.08	-47	48	46	+7	SSE	8	rgm	6	c,bm	48	41	*	0.72		
	Valencia...	29.50	47	SE	5	o	29.16	-39	47	46	+16	S	1	bc	4	c,o,t	52	31	3.2	1.03		
	Roche's Point ...	29.54	50	SE	3	o	29.18	-34	52	52	+10	S	6	o	7	cd,o,t	52	40	*	0.54		
	Parsonstown ...	29.56	44	SE	1	b	29.20	-36	47	46	+9	SE	7	otg	*	b	47	36	3.2	0.21		
	Donaghadee ...	29.65	46	ESE	5	c	29.47	-17	46	45	-2	ESE	5	o	5	-	48	44	*	0.01		
Liverpool Obsy. ...	29.65	43	E	4	o	29.57	-03	42	41	-3	ESE	3	o	2	omr	45	41	*	0.05			
Holyhead ...	29.60	44	E	4	o	29.49	-10	44	43	-1	ESE	4	cm	3	o	45	42	*	-			
Pembroke (St. Ann's) ...	29.56	47	NE	2	o	29.43	-06	49	47	+5	SE	7	rgu	6	o,gg	50	43	0.3	0.07			
GERMANY, &c.	Scilly (St. Mary's)...	29.57	50	WNW	1	op	29.37	-10	49	48	+1	S	7	+	5	o,op	53	44	2.5	0.22		
	Jersey (St. Aubins)...	29.57	49	WNW	2	cg	29.68	+28	49	46	+4	SSW	5	og	4	om,f,gg	51	45	0.0	0.01		
	Portland Bill ...	29.54	49	NNW	2	o	29.62	+18	48	46	+2	SSW	2	c	2	om,o	49	44	*	0.04		
	Dungeness ...	29.52	50	ESE	2	+	29.63	+18	46	45	-4	N	1	f	1	+	50	45	*	0.45		
	Wick ...	29.84	44	SE	6	o	29.65	-14	42	40	-4	SE	7	ou	6	-	47	38	*	0.03		
	Nairn ...	29.80	40	ESE	2	b	29.57	-19	40	39	-4	E	3	c	2	-	47	35	*	-		
	Aberdeen ...	29.88	40	SE	5	og	29.72	-09	41	38	-3	SE	6	ogq	7	og	45	39	0.0	-		
	Leith ...	29.78	43	E	3	o	29.59	-15	43	41	-3	ESE	4	o	*	-	46	39	*	-		
North Shields ...	29.73	44	ESE	5	o	29.65	-08	44	42	-3	SE	5	o	4	-	47	42	*	-			
FRANCE.	Spurn Head ...	29.65	43	E	6	+	29.63	+03	42	41	-3	E	6	og	4	-	46	41	*	0.21		
	Yarmouth ...	29.57	44	E	6	rg	29.63	+10	44	43	0	E	5	ogd	5	r,rg	46	41	*	0.76		
	Loughborough ...	29.63	43	ENE	3	+	29.64	+09	41	41	-2	ESE	2	ogm	*	gmp	44	41	*	0.08		
	Oxford ...	29.61	44	NE	3	ot	29.63	+16	43	43	-2	S	1	f	*	ot	47	42	*	0.08		
	London (Brixton) ...	29.54	47	E	1	o	29.63	+15	45	45	-1	Z	0	ogf.	*	odg,ogm	48	44	0.0	0.27		
	The Scaw (Skagen) ...	30.12	30	NE	3	b	30.15	+08	26	26	-1	E	3	b	1	-	32	25	*	-		
	Fanö ...	30.06	24	NE	4	b	30.07	+06	26	22	+2	ENE	6	b	*	-	30	23	*	-		
	Cuxhaven ...	29.96	30	E	5	b	29.96	+04	28	27	-3	E	5	b	*	-	32	28	*	-		
SPAN. PEN.	The Helder ...	29.72	34	E	4	o	29.72	-02	32	32	-3	E	5	o	5	-	36	32	*	-		
	Brussels...	*	*	*	*	*	29.65	+10	45	45	+2	WSW	3	+	*	-	46	42	*	0.39		
	Berlin ...	29.99	26	E	3	b	29.99	+04	21	21	-4	SE	2	b	*	-	34	21	*	-		
	Frankfurt ...	29.78	40	E	2	o	29.78	+07	40	36	+1	E	2	+	*	-	45	37	*	-		
	Munich ...	29.74	32	E	3	c	29.80	+13	31	30	-1	E	3	o	*	-	39	30	*	-		
	C. Gris Nez ...	29.60	48	SE	1	+	29.67	+28	47	47	+1	WNW	4	o	3	-	50	45	*	0.83		
	Brest ...	29.63	51	WNW	2	o	29.59	+14	54	52	+4	S	4	o	4	-	54	50	*	-		
	Lorient ...	29.53	53	NW	3	bc	29.68	+23	53	50	+7	SSW	5	o	4	-	?	?	*	-		
Rochefort ...	29.68	50	N	1	bc	29.86	+62	47	47	+1	SSE	3	bc	*	-	50	45	*	0.04			
Biarritz ...	29.76	55	NW	3	c	29.88	+40	47	45	-3	S	3	b	5	-	55	45	*	0.16			
SPAN. PEN.	Paris ...	29.58	48	S	3	+	29.77	+32	40	40	-9	SW	3	bc	+	-	51	40	*	0.35		
	Belfort ...	29.67	37	ENE	3	m	29.78	+21	42	42	+3	WSW	4	+	*	-	42	36	*	0.08		
	Lyons ...	29.65	47	NNE	1	o	29.91	+48	43	43	-2	WSW	1	o	*	-	51	42	*	0.39		
	Nice ...	29.65	57	E	5	c	29.73	+21	51	45	-4	Z	0	b	4	-	59	48	*	-		
	Perpignan ...																					
Corunna ...																						
Lisbon ...																						
Azores (P. Delgada) ...	29.84	68	W	5	m	30.05	+22	56	51	-8	NNW	3	c	3	-	68	55	*	0.04			

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR *Monday, 1st December, 1902.*

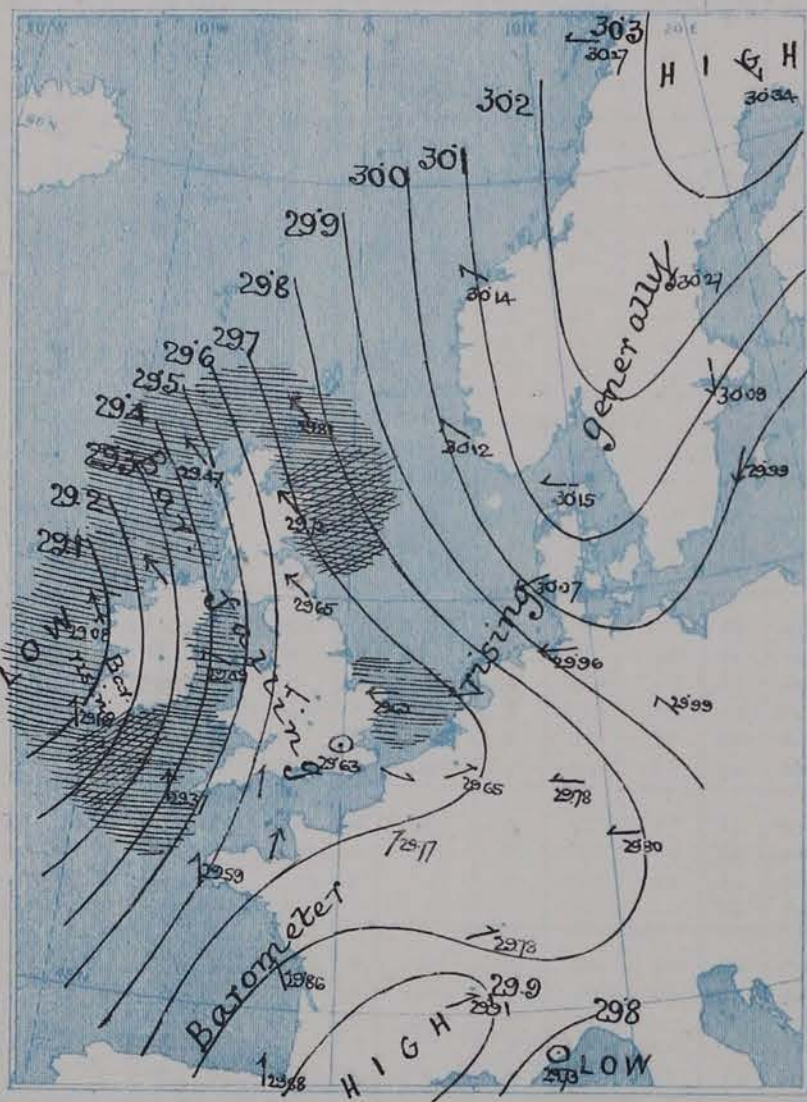
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 → }

W.A.—Rough High



II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus — 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average N^o of Hourly daily 0.8
(for Stornaway) { Total Possible 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period

NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometrical pressure is highest, 30.3 ins. and upwards, in the north of Sweden, but is high, 30.0 ins. and upwards, in an anticyclone lying over the whole of Scandinavia, Denmark and North Germany. The lowest pressures, 29.1 ins. and less, are found in a rather deep cyclonic disturbance, the centre of which lies off the west of Ireland. Under the influence of this system the barometer is falling on most parts of our western and northern coasts, but at Valencia it is beginning to rise again. A gradual increase of pressure is reported at most of the Continental stations.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is strong to a gale from the S.E. on our western and northern coasts, and from the E. over all the more southern parts of the North Sea. Over the Channel and Bay of Biscay it is light to fresh from the S., while in Central France it is moderate from S.W. N.W. breezes are general in Sweden. Temperature has risen in the south-west of our Islands, but has fallen in most other parts of our area. On our western and southern coasts the readings are above 45°, but in the northern and eastern parts of Great Britain they are below that point, the lowest reading reported being 40° at Lumburgh Head and Nairn. Frost prevails in Scandinavia, Denmark and Germany; in Sweden the thermometer is below 20° and at Haparanda it is 5° below zero F. The weather is cloudy over North-western Europe as a whole, but is fine in Norway and Denmark and also in the south of France; fog prevails in the south of England, and rain in the north of Ireland; snow is reported at Wisby. The sea is high at Aberdeen and Roche's Point, and is rough, or rather so, excepting in the eastern parts of the Channel.

During yesterday the thermometer rose to 50° or slightly above it on several parts of our western coasts; at Loughborough it did not exceed 44°. Over the greater part of England there was a complete absence of sunshine, but at Parsonstown and Valencia there was a little over 3 hours. Rain has fallen in most parts of our Islands and France, the amount measured this morning at Valencia being as much as 1.0 inch.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The cyclonic disturbance in the west is moving northwards. Secondary systems are, however, likely to appear shortly off our south-west coasts and to advance over England, so that rain is probable in most districts. The wind is likely to increase to a gale from the S.E. on all our north and east coasts.

FORECASTS *

For the 24 hours ending at NOON on 2nd. December, 1902

DISTRICTS.

FORECASTS.

0 $\overline{\text{N}}$ SCOTLAND NORTH

S.E. winds, strong to a gale; dull, squally, rain at times.

1 $\overline{\text{N}}$ SCOTLAND EAST

2 $\overline{\text{N}}$ ENGLAND N.E.

E. and S.E. winds, strong, perhaps a gale; dull, unsettled, some rain.

3 $\overline{\text{N}}$ ENGLAND EAST

4 { MIDLAND COUNTIES

S. and S.E. winds, freshening; dull and misty at first, with some rain, improving temporarily later.

5 { ENGLAND SOUTH

DISTRICTS.

FORECASTS.

6 $\overline{\text{N}}$ SCOTLAND WEST

S.E. to S. winds, strong to a gale; dull, squally, some rain.

7 $\overline{\text{N}}$ ENGLAND N.W.

8 $\overline{\text{N}}$ ENGLAND S.W.

S. gales, veering later and moderating; rainy at first, then fair.

9 $\overline{\text{N}}$ IRELAND NORTH

Same as Nos. 6 and 7.

10 $\overline{\text{N}}$ IRELAND SOUTH

S. to S.E. winds, strong; unsettled, rain at times.

At 7.15 p.m. yesterday to districts 0 to 2, 6, 9 and 10, and at 9.40 a.m. to-day to district 7, Hoist South Cone.

The signals are also flying in districts 3 and 8.

WARNINGS

Note.—The South Cone, point downwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

1531 106 ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	*	46	44	0.0	0.61
Newton Reigny (Penrith)	29.69	42	E 4	0	29.56		41	40		ESE 4	0	*	og	43	39	0.0	-
Bath	29.54	47	E 1	0	29.61	+16	43	43	-2	E 1	0		-	48	42	0.0	0.08

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	44	41	07	0.0	0.08	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	43	41	+	0.0	0.35	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	*	*	*	0.0	*	Rhyl	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	46	42	0	0.0	0.01
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	*	*	*	0.0	*
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	43	39	ogu	0.0	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
30. XI. 02 Information not yet recd.				Ins.	Algiers				Ins.
Madeira (Funchal)					Tunis				
Madrid					Vienna				
Corsica (I. Sanguinaires) ...					St. Petersburg				
Rome					29. XI. 02	1 p.m.		1 p.m.	Measured 7 a.m.
Florence					Lugano	43	—	r	—
Trieste					Davos	41	—	o	—
Naples					Lucerne	46	—	bc	—
Palermo					Lausanne	46	—	bc	0.08
Malta									

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

1. Dec. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	7.42	11.42	3.43
Greenwich	7.45	11.49	3.54
Wick	8.38	12.1	3.25
Valencia	8.28	12.30	4.32

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 2nd December 1902
 Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall Ins.		
				Dirac.	Force (0 to 12.)		At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Max.	Min.				
																				At 32° and M.S.L.	Dry Bulb.
SCANDINAVIA.	Haparanda ...	30.45	-10	Z	0	b	30.52	+18	-18	-19	-13	N	2	b	*	-	16	?	*	-	
	Hernösand ...	30.35	15	N	4	o	30.34	+07	14	13	0	NNE	6	o	*	-	19	14	*	-	
	Stockholm ...	30.19	18	NW	2	S	30.18	+09	16	16	-4	NE	6	S	*	-	23	4	*	-	
	Wisby ...	30.10	22	NE	2	S	30.06	+07	20	19	-4	E	4	bc	*	-	30	18	*	0.12	
	Karlstad ...	30.26	16	NE	2	o	30.20	-02	20	17	+7	NE	4	o	*	-	*	*	*	-	
	Färder (X'ania Fjord) ...	30.24	22	NNE	5	b	30.16	-05	22	21	-4	NE	6	o	2	-	26	19	*	-	
	Bodö ...	30.30	19	E	4	b	30.30	+03	21	18	-4	E	4	b	1	-	25	19	*	-	
	Christiansund ...	30.13	28	ESE	2	b	30.03	-11	28	26	-1	ESE	3	b	3	-	30	27	*	-	
BRITISH ISLANDS.	Skudesnaes ...	30.06	31	SE	6	b	29.98	-14	27	23	-5	ESE	6	b	4	b	36	27	*	-	
	Sumburgh Head ...	29.72	41	SE	7	o	29.71	-10	37	34	-3	SE	7	o	7	o	42	35	*	-	
	Stornoway ...	29.32	44	SE	6	+	29.37	-10	41	40	-2	ESE	7	+	7	o, +	52	41	0.0	0.55	
	Malin Head ...	29.14	44	SE	7	org	29.35	+10	48	45	+3	WNW	5	c	5	ctg, p	48	43	*	0.33	
	Blacksod Pt. ...	29.18	47	WNW	3	bcn	29.45	+37	46	43	-2	W	4	b	3	c, bcn	50	43	*	0.03	
	Valencia ...	29.24	46	NE	1	+	29.55	+39	45	45	+1	WSW	4	op	6	+	52	44	0.6	0.85	
	Roche's Point ...	29.22	48	W	3	c	29.57	+39	44	43	-8	W	3	bc	3	p, c	53	42	*	0.05	
	Parsonstown ...	29.20	45	SSE	1	p	29.52	+32	38	38	-9	SSW	1	c	*	op	51	37	0.3	0.16	
GERMANY, &c.	Donaghadee ...	29.20	46	SE	8	tg	29.39	-08	46	45	0	NNW	2	rg	2	-	49	42	*	0.90	
	Liverpool Obsy. ...	29.25	44	SE	6	+	29.42	-15	45	43	+3	W	5	c	5	omr	46	41	*	0.49	
	Holyhead ...	29.15	47	SE	6	ogmp	29.46	-03	47	45	+3	WNW	7	cq	5	t, ogmp	49	43	*	0.42	
	Pembroke (St. Ann's) ...	29.24	52	SW	5	b	29.55	+12	50	46	+1	W	6	bc	5	b, thp, l	53	45	0.0	0.72	
	Scilly (St. Mary's) ...	29.31	53	WSW	5	cl	29.65	+28	51	47	+2	W	6	c	5	c, cl	55	46	2.0	0.51	
	Jersey (St. Aubins) ...	29.48	50	S	5	og	29.69	+01	51	45	+2	WNW	7	bcn	6	omr, og, h	51	46	0.0	0.71	
	Portland Bill ...	29.36	53	SSW	6	tg	29.55	-07	48	46	0	NW	9	+	7	tg	53	48	*	0.58	
	Dungeness ...	29.53	49	SSW	6	tu	29.44	-19	46	46	0	WNW	5	o	3	o, tu, q	52	45	*	0.65	
FRANCE.	Wick ...	29.52	40	SE	8	o	29.53	-12	38	38	-4	SE	8	ou	8	-	45	38	*	0.20	
	Nairn ...	29.41	42	SE	4	o	29.44	-13	40	38	0	E	2	o	2	-	43	38	*	-	
	Aberdeen ...	29.55	40	SE	9	otgq	29.50	-22	38	37	-3	SE	7	otgq	8	o, otgq	42	37	0.0	0.47	
	Leith ...	29.39	43	ESE	3	+	29.36	-23	42	40	-1	ESE	3	o	*	-	45	40	*	0.13	
	North Shields ...	29.43	44	ESE	6	tg	29.32	-33	43	43	-1	ESE	5	d	6	t, tg	45	42	*	0.90	
	Spurn Head ...	29.45	43	ESE	7	+	29.35	-28	44	44	+2	WSW	2	f	4	t, tg	45	42	*	0.42	
	Yarmouth ...	29.53	45	SE	5	o	29.34	-29	46	45	+2	WNW	4	of	5	o	46	40	*	0.34	
	Loughborough ...	29.39	45	SE	3	+	29.42	-22	41	41	0	W	3	c	*	gm, r, bf	46	35	*	0.65	
SPAN. PEN.	Oxford ...	29.32	48	S	2	ot	29.49	-14	45	43	+2	W	2	o	*	o, ot	49	43	*	0.19	
	London (Brixton) ...	29.43	47	SSE	3	ot	29.46	-17	46	44	+1	WNW	3	o	*	og, tg	50	44	0.0	0.12	
	The Scaw (Skagen) ...	30.17	26	E	4	c	30.06	-09	24	24	-2	E	5	o	1	-	27	23	*	-	
	Fanö ...	30.06	23	ENE	8	b	29.82	-25	27	25	+1	ENE	8	o	*	-	28	25	*	-	
	Cuxhaven ...	29.93	30	E	5	b	29.68	-28	28	26	0	E	6	o	*	-	32	27	*	-	
	The Helder ...	*	*	*	*	*	29.38	-27	44	44	-1	WSW	4	+	*	-	47	43	*	0.28	
	Brussels ...	*	*	*	*	*	29.81	-18	21	19	0	SE	4	o	*	-	28	19	*	-	
	Berlin ...	29.97	27	E	2	b	29.56	-22	43	42	+3	SW	3	+	*	-	43	39	*	0.35	
SPAN. PEN.	Frankfurt ...	29.75	40	SW	2	+	29.69	-11	37	37	+6	SW	3	+	*	-	39	30	*	0.20	
	Munich ...	29.84	38	SW	4	o	29.69	-11	37	37	+6	SW	3	+	*	-	39	30	*	0.20	
	C. Gris Nez ...	29.56	46	SSW	4	+	29.43	-24	48	47	+1	W	6	+	7	-	52	32	*	0.51	
	Brest ...	29.47	54	WNW	4	o	29.78	+19	52	49	-2	WNW	5	c	6	-	55	49	*	0.35	
	Lorient ...	29.53	54	WSW	5	f	29.80	+12	52	52	-1	W	6	c	7	-	50	?	*	0.67	
	Rochefort ...	29.71	50	SSW	4	+	29.90	+04	54	52	+7	W	5	c	*	o, t	54	41	*	0.28	
	Biarritz ...	29.87	58	Z	0	o	30.08	+20	56	55	+9	W	4	b	4	-	61	47	*	-	
	Paris ...	29.72	46	S	3	o	29.58	-19	48	45	+8	WSW	5	o	*	-	48	40	*	0.08	
SPAN. PEN.	Belfort ...	29.84	41	WSW	2	f	29.68	-10	44	42	+2	SW	8	o	*	-	45	38	*	0.20	
	Lyons ...	29.88	44	NNE	1	b	29.92	+01	42	41	-1	S	1	bc	*	-	50	41	*	0.08	
	Nice ...	29.65	51	ENE	1	b	29.69	-04	47	45	-4	Z	0	bc	2	-	61	46	*	-	
	Perpignan ...	29.85	48	Z	0	b	29.96	-04	54	48	-	NW	4	b	*	-	60	43	*	-	
SPAN. PEN.	Corunna ...														*	-			*	-	
	Lisbon ...														*	-			*	-	
SPAN. PEN.	Azores (P. Delgada) ...	30.24	55	NW	3	b	30.26	+21	53	49	-3	N	3	bc	4	-	63	52	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR *Tuesday, 2nd December, 1902.*

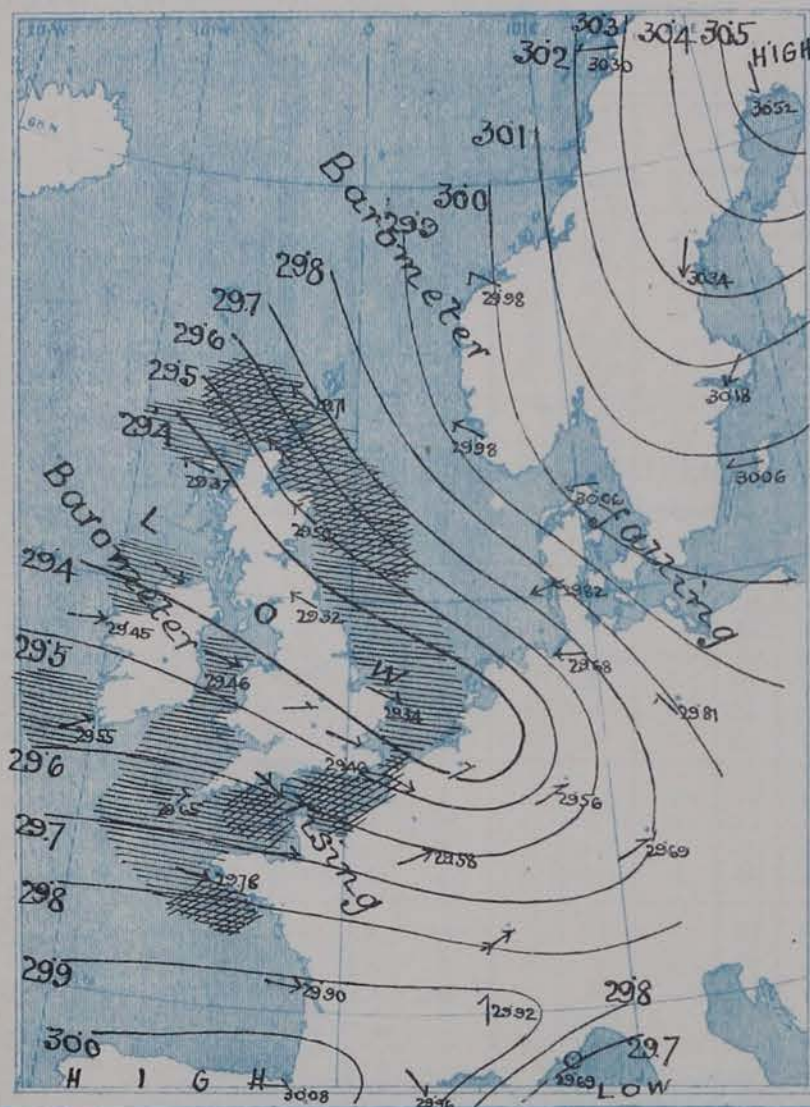
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 → }

SEA.—Rough High



II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

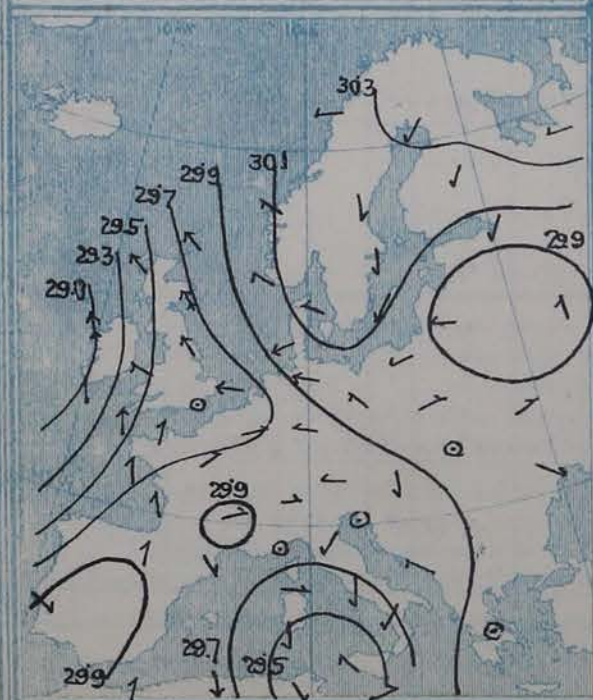
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus —0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average N^o of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period

NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometrical pressure remains highest, 30.5 in. and upwards, in the north of Sweden, but has become somewhat high, 30.0 in. and upwards, in the South of France. The lowest pressures, 29.4 in. and less, are found in a trough which stretches from north-west to south-east across the west and south of Scotland and the north and east of England, the barometrical gradients being rather steep over the North Sea and also over France. The mercury is at present rising in most parts of these Islands and France, but is falling at the Scandinavian, Danish and German stations.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind has shifted to the W^d or N.W^d over the greater part of Ireland, England and France, and blows strongly at many places in the west and south, with a gale at Portland Bill. In Scotland the wind is strong to a gale from the S.E.^d, and on the eastern shores of the North Sea from the E.^d, while in Sweden it is moderate to strong from N.E. Temperature has fallen in Ireland and Scotland, and also in Scandinavia. Over the greater part of the United Kingdom the thermometer is still above the average, the readings being above 45° at many of our western and southern stations, and as high as 51° at Scilly and Jersey; over central Ireland and the north and north-east coasts of Scotland the readings are below 40°. Frost prevails over the whole of Scandinavia, Denmark and North Germany, and is severe in Sweden; at Haparanda the thermometer stands 18° below zero F. Rain is still falling at several of our own northern stations, and showers in the south; fog prevails on the east coasts of England. Rain is also falling in Germany, but in France and in Norway the weather is at present fair. The sea is very high off the north and east of Scotland and rough, or rather so, on nearly all parts of our coasts.

Rain fell yesterday over Western Europe generally and heavily in many places, the largest amounts reported this morning being 0.9 in. at Shields, Donaghadee and Valencia. Thunder and lightning occurred last night at Scilly, and lightning at Pembroke.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is rising in the extreme west, but the wind at Valencia is apparently backing to the S.W^d. It seems probable that fresh disturbances will shortly approach our western coasts, and that the temporary improvement in the weather now reported over England will be followed tomorrow by a renewal of unsettled conditions.

FORECASTS *

For the 24 hours ending at NOON on 3rd December, 1902

DISTRICTS.

FORECASTS.

0 $\overline{\pi}$ { SCOTLAND NORTH	S.E. th gales and strong winds; dull, squally, rain at times.
1 $\overline{\pi}$ { SCOTLAND EAST	
2 $\overline{\pi}$ { ENGLAND N.E.	W th or S.W. th winds, light; cloudy, some fog or mist.
3 $\overline{\pi}$ { ENGLAND EAST	W th to S.W. th winds, strong in places; squally, some showers. Rather cooler.
4 { MIDLAND COUNTIES	
5 $\overline{\pi}$ { ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6 $\overline{\pi}$ { SCOTLAND WEST	Variable or light S.E. th breezes; dull, some rain.
7 $\overline{\pi}$ { ENGLAND N.W.	
8 { ENGLAND S.W.	W th to S.W. th winds, strong; squally, showery.
9 $\overline{\pi}$ { IRELAND NORTH	
10 $\overline{\pi}$ { IRELAND SOUTH	At 7 p.m. yesterday to district 3, 'Hoist South Cone'. The signals are now flying in all districts excepting No. 8.
WARNINGS	

Note.—The South Cone, point downwards ($\overline{\pi}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards (π), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.				
	Bar.	Temp.	Wind.	Weather.	Barometer.	Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun-	Rainfall
	Ins.	°			Ins. Change.	Dry.	Wet.	Change.					Max.	Min.	shine.	Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	bc	*	ot	48	43	0.0	0.18
Newton Reigny (Penrith)	29.33	41	SE 4	†	29.30 -26	40	40	-1	2 0	m	*	ogrin	42	39	0.0	0.42
Bath	29.31	51	N 4	0	29.55 -06	45	43	+2	W 1	0	*	-	53	42	0.0	0.25

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	42	39	om†	0.0	0.37	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	46	40	6	0.0	0.57	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	45	42	0	0.0	0.55	Rhyl	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	46	40	6	0.0	0.34
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	48	41	†, 0	0.0	0.41
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	42	38	†	0.0	0.79

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
1. XII. 02									
Madeira (Funchal)				Ins.	Algiers	63	57	6, 0	Ins.
Madrid					Tunis	63	45	0 0	
Corsica (I. Sanguinaires) ...	55	45	f 2	-	Vienna	34	30	0 m.	-
Rome	61	46	6 0	-	St. Petersburg,	12	0	5 8	-
Florence	59	42	6 0	-	30. XI. 02	Observations not yet recd			
Trieste	55	46	0 0	-	Lugano				Measured 7 a.m.
Naples	60	52	0 0	0.04	Davos				
Palermo	66	55	0 r	0.87	Lucerne				
Malta	66	51	? c	0.43	Lausanne				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

2. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.43	11.42	3.42
Greenwich	7.46	11.49	3.53
Wick	8.39	12.1	3.24
Valencia	8.29	12.30	4.32

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & Sons' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

Wednesday 3rd December.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.														
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.												
				Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.														
																				At 32° and M.S.L.	Dry Bulb.	Ins.	°	°	°	°	Ins.				
																				Ins.	Ins.	°	°	°	°	°	°	°	°	°	°
SCANDINAVIA.	Haparanda ...	30.10	-21	NNE	4	b	30.50	-0.2	-22	-23	-4	N	2	c	*	-	12	-22	*	-											
	Hernösand ...	30.45	14	N	4	o	30.56	+2.2	11	11	-3	N	4	o	*	-	19	11	*	-											
	Stockholm ...	30.29	12	NE	2	b	30.43	+2.5	14	13	-2	NNE	4	o	*	-	18	10	*	-											
	Wisby ...	30.17	21	NE	4	bc	30.29	+2.3	19	18	-1	E	2	S	*	-	30	12	*	0.04											
	Karlstad ...	30.32	17	NNE	2	b	30.48	+2.8	17	16	-3	NNE	2	o	*	-	*	*	*	-											
	Færder (X'iania Fjord) ...	30.23	23	NE	4	c	30.43	+2.7	21	18	-1	NE	6	o	2	-	23	21	*	-											
	Bodö ...	30.38	18	E	4	b	30.49	+1.9	17	15	-4	E	4	b	1	-	21	14	*	-											
	Christiansund ...	30.16	27	ESE	4	b	30.39	+3.6	27	24	-1	E	3	b	3	-	28	25	*	-											
Skudesnaes ...	30.16	26	ESE	6	b	30.33	+3.5	23	19	-4	E	6	b	3	b	28	23	*	*												
BRITISH ISLANDS.	Sumburgh Head ...	29.88	34	SE	6	o	30.23	+5.2	35	32	-2	SE	4	o	7	7.0	37	32	*	0.08											
	Stornoway ...	29.58	43	SSE	3	o	30.00	+6.3	43	41	+2	SE	3	o	3	0	48	39	0.0	0.11											
	Malin Head ...	29.59	45	W	4	b	30.01	+6.6	40	39	-8	S	4	bc	3	b	48	39	*	0.02											
	Blacksod Pt. ...	29.61	39	WNW	2	bm	30.01	+5.6	40	39	-6	W	1	bm	2	b, bm	50	36	*	-											
	Valencia ...	29.55	46	ESE	3	+	30.06	+5.1	36	35	-12	E	1	o	4	0.1	51	35	1.8	0.32											
	Roche's Point ...	29.55	51	SSE	2	o	30.04	+4.7	41	40	-3	NW	2	b	1	b, o, l	52	38	*	0.03											
	Parsonstown ...	29.61	41	SE	1	c	30.05	+5.3	32	32	-6	S	1	f	*	b, c	47	29	5.6	0.01											
	Donaghadee ...	29.59	41	W	2	bc	30.00	+6.1	41	40	-5	E	3	bc	2	-	49	38	*	-											
Liverpool Obsy. ...	29.62	42	W	3	bc	29.96	+5.4	38	37	-7	ENE	3	m	?	p, bc	48	38	*	0.09												
Holyhead ...	29.61	46	W	2	cp	29.95	+4.9	44	42	-3	N	5	c	4	c, cp	49	42	*	0.03												
Pembroke (St. Ann's) ...	29.62	51	SW	5	c	29.96	+4.1	47	45	-3	NNW	4	c	4	c, p	52	42	4.6	0.06												
GERMANY, &c.	Scilly (St. Mary's) ...	29.59	51	S	4	+	29.93	+2.8	51	48	0	N	5	c	7	c, +	53	46	3.7	0.09											
	Jersey (St. Aubins) ...	29.78	49	WSW	4	cgp	29.86	+1.7	49	48	-2	NNW	3	cm	3	bc, p, gp	55	45	3.3	0.32											
	Portland Bill ...	29.71	50	W	4	bc	29.89	+3.4	42	41	-6	NNE	2	bcw	3	bc	52	40	*	0.16											
	Dungeness ...	29.70	47	NW	3	b	29.83	+3.9	37	36	-9	N	2	cmw	1	bc, b	50	33	*	-											
	Wick ...	29.73	38	SE	8	+	30.12	+5.9	39	38	+1	SE	8	o	6	rsp, +	41	38	*	0.10											
	Nairn ...	29.67	38	ESE	4	o	30.08	+6.4	38	37	-2	E	1	c	1	-	40	36	*	0.01											
	Aberdeen ...	29.74	38	SE	7	otgq	30.14	+6.4	37	35	-1	SE	4	cq	6	otgq	39	35	0.0	0.41											
	Leith ...	29.57	43	E	2	+	30.08	+7.2	38	36	-4	E	2	c	*	-	43	35	*	0.05											
North Shields ...	29.56	43	ESE	5	+	30.04	+7.2	44	42	+1	SE	4	o	6	+	45	38	*	0.32												
FRANCE.	Spurn Head ...	29.57	43	WNW	4	+	29.96	+6.1	36	35	-8	ESE	6	+	5	-	47	35	*	0.18											
	Yarmouth ...	29.56	47	W	4	bc	29.89	+5.5	36	35	-10	ENE	6	ogq	5	c, bc	47	35	*	0.16											
	Loughborough ...	29.63	41	W	2	b	29.93	+5.1	36	36	-5	ENE	3	ogmd	*	bc, b, fd	50	28	*	0.01											
	Oxford ...	29.70	41	W	2	b	29.92	+4.3	33	32	-12	NW	1	cm	*	b	50	31	*	-											
	London (Brixton) ...	29.67	44	W	2	b	29.89	+4.3	36	36	-10	Z	0	fg	*	bm, b	50	32	3.5	-											
	The Scaw (Skagen) ...	30.14	23	E	5	c	30.33	+2.7	23	23	-1	E	5	c	1	-	27	21	*	-											
	Fanö ...	29.95	27	ENE	6	c	30.16	+3.4	25	23	-2	ENE	6	c	*	-	30	24	*	-											
	Cuxhaven ...	29.71	28	E	6	o	30.07	+3.9	22	21	-6	E	4	b	*	-	28	21	*	-											
SPAN. PEN.	The Helder ...	*	*	*	*	*	29.86	+4.8	30	30	-14	NE	2	f	*	-	47	29	*	0.20											
	Brussels ...	*	*	*	*	*	29.99	+1.8	11	11	-10	NNE	4	b	*	-	25	10	*	0.04											
	Berlin ...	29.70	18	E	4	S	29.81	+2.5	34	33	-9	NE	4	o	*	-	46	34	*	0.39											
	Frankfurt ...	29.62	44	W	3	+	29.83	+1.4	37	36	0	W	6	b	*	-	46	37	*	-											
	Munich ...	29.66	42	W	8	o	*	*	*	*	*	*	*	*	*	-	*	*	*	-											
	C. Gris Nez ...	29.70	48	W	6	b	29.81	+3.8	45	44	-3	N	4	m	4	-	50	41	*	-											
	Brest ...	29.75	53	SW	4	o	29.83	+0.5	49	48	-3	N	3	bc	6	-	54	40	*	0.20											
	Lorient ...	29.89	54	W	6	+	29.75	-0.5	51	51	-1	N	4	c	5	-	54	48	*	0.75											
Rochefort ...	29.96	52	SSE	3	bc	29.76	-1.4	50	49	-4	WNW	3	o	*	o, bc	54	46	*	0.51												
Biarritz ...	30.13	56	W	5	c	30.03	-0.5	50	50	-6	SW	6	+	5	c, b, t	56	46	*	0.12												
SPAN. PEN.	Paris ...	29.84	45	WSW	3	b	29.82	+2.4	41	40	-7	SSE	2	o	*	-	50	37	*	0.04											
	Belfort ...	29.76	47	SW	8	+	29.86	+1.8	40	39	-4	WSW	4	o	*	-	47	39	*	0.08											
	Lyons ...	30.00	46	? W	1	b	29.93	+0.1	37	35	-5	SSE	1	c	*	-	53	35	*	-											
	Nice ...	29.74	51	SW	1	b	29.78	+0.9	48	37	+1	NE	2	c	3	-	59	43	*	-											
	Perpignan ...	30.06	50	N	2	b	29.96	0.0	41	39	-13	SW	2	bc	*	-	59	40	*	-											
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	-											
	Lisbon ...	30.32	54	NNW	2	b	30.34	+1.1	54	53	-1	W	2	b	*	-	59	52	*	-											
	Azores (P. Delgada) ...	30.19	63	SSE	1	o	30.10	-1.6	64	63	+11	SE	5	o	4	-	64	54	*	-											

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

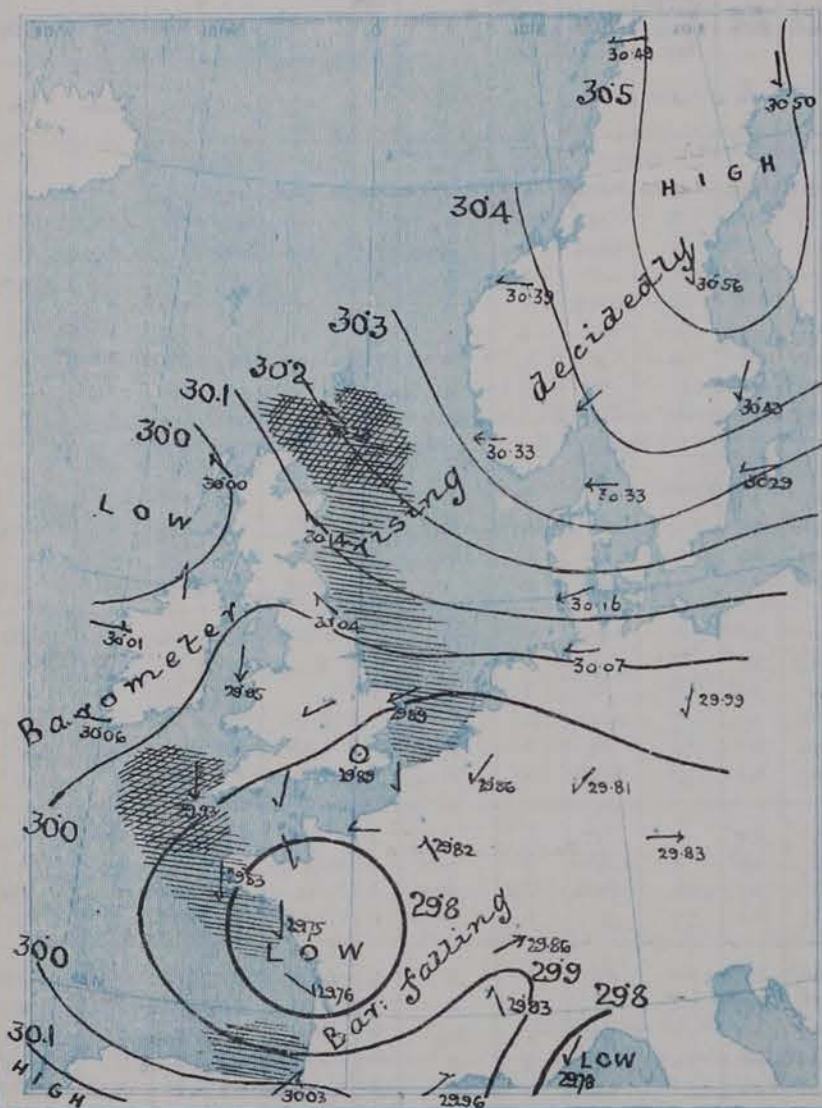
+ Observations received too late for insertion in Charts on next page.

FOR Wednesday, 3rd December, 1902.

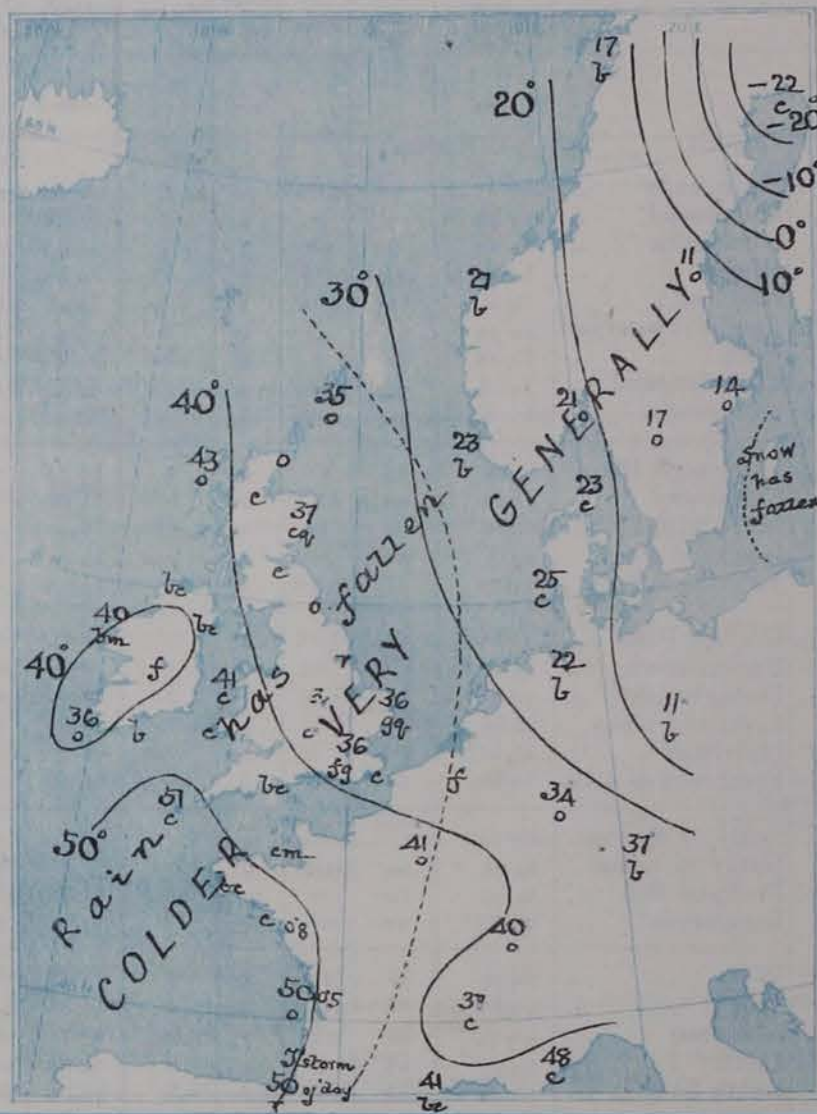
Wednesday, 3rd December,

1902.

Burke 5 to 7 ————
Burke 1 to 4 ————

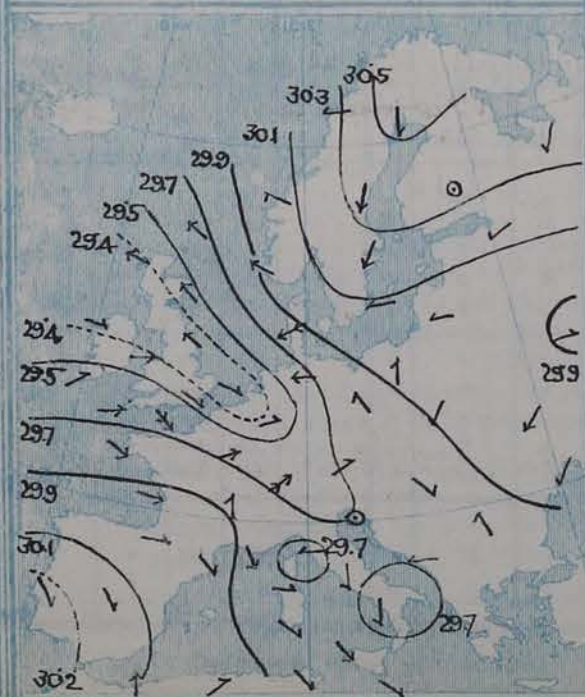


WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)



III BAROMETER AND WIND

Yesterday morning.



**IV. Means of Daily Recorded BRIGHT
SUNSHINE (1881-1900), together
with Means of Possible Duration,
for DECEMBER.**

Specimen.	Average N. of	0.8
(for Stornaway)	Hourly daily	
	Total Possible	6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period

NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

A small cyclonic system which appeared last evening off our south west coasts is now moving over France in a south easterly direction, the readings of the barometer in the western parts of that country being below 29.8 ins. The highest pressures, 30.5 ins. and upwards are still found over the north of Sweden, but the anticyclone over Scandinavia is apparently extending westwards and ~~the~~ south westward and the mercury is at present rising at all but the French stations.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is Easterly over the North Sea and the east of England, and South Easterly in Scotland :- Strong in force in many places, with a gale at Wick. In Ireland the wind is variable, but in Wales and the south west of England it is fresh from the northward, while in France there is a cyclonic circulation of light breezes round the small depression noticed above.

Temperature has fallen generally, the readings in our Islands being now below the average at all but a few of the south western stations. Over central Ireland and the eastern and central parts of Great Britain the thermometer is below 40°. The lowest readings reported being 32° at Parsonstown and 33° at Oxford. Hard frost prevails in Scandinavia, Denmark, and North Germany; at Hernösand and Berlin the thermometer is as low as 11° while at Haparanda it stands at -22° Fahr.

The state of the sky varies greatly in different localities, but the weather over Western Europe as a whole is cloudy or dull, with fog or mist, and slight rain in many parts of England. The sea is high at the mouth of the Channel and at Sumburgh Head, and is rough on our north and east coasts generally.

During yesterday the thermometer rose to 50° and upwards at several of our western and southern stations and to 55° at Jersey; frost occurred at night in many parts of the Kingdom, the lowest temperatures reported being 28° at Loughborough at 29° at Parsonstown. Rain fell yesterday over north western Europe generally. Lightning occurred at Rocher Point and a thunderstorm at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Northern Europe will probably continue to extend south westwards, and the weather in these islands is therefore likely to become drier and colder. Fog or mist is however, anticipated, especially over the inland districts

FORECASTS *

For the 24 hours ending at NOON on 4th December 1902

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	E ^{ly} and SE ^{ly} winds, moderate, fair generally colder.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	NE ^{ly} and N ^{ly} winds, light, cloudy with some mist or fog, slight rain in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Variable or light E ^{ly} breezes, fair generally but some fog or mist, colder.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	Same as No. 6.
10	IRELAND SOUTH	
WARNINGS		At 3.30 p.m. yesterday to district 8, and at 7.50 p.m. to districts 0 to 2, 6, 9, and 10 "HOIST SOUTH CONE" The signals have all been lowered this morning except in districts 0 to 2.

Note.—The South Cone, point downwards (⌋), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (⌋), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.			
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer. Ins. | Change.	Temperature. Dry. | Wet. | Change.			Wind.	Weather.	Sea.	Weather.	Temperature. Max. | Min.	Sun- shine. Hrs.	Rainfall Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	0	*	c, 0	49 | 34	2.5	-
Newton Reigny (Penrith)	29.59	38	20	0	29.98	+ .68	35	34	-5	SE 2	ogm	*	42 | 35	0.0	0.10
Bath	29.68	43	W 1	0	29.93	+ .38	39	39	-6	W 1	f	*	52 | 31	5.2	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	45	39	c	1.2	0.02	Worthing	*	*	*	5.4	*
Birmingham, 9 p.m. ...	48	40	z	4.4	-	Llandudno	*	*	*	2.8	*
Lowestoft, up to 6 p.m. ...	*	*	*	3.9	*	Rhyl	*	*	*	4.8	*
Hastings	*	*	*	4.3	*	Southport, 9 p.m. ...	48	42	z	0.6	0.44
Eastbourne	*	*	*	4.9	*	Manchester, 9 p.m. ...	49	38	b, m	0.0	0.36
Brighton	*	*	*	*	*	Darwen, 9 p.m. ...	44	40	cm	0.0	0.21

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
Madeira (Funchal)	68	54	c	0	Algiers	64	55	o	c
Madrid	52	45	o	0	Tunis	59	54	b.	c
Corsica (I. Sanguinaires) ...	57	45	m	c	Vienna	34	28	om	m
Rome	55	42	b	bc	St. Petersburg	9	0	b	b
Florence	54	39	b	0	Lugano	not yet recd	1 p.m.	1 p.m.	Measured 7 a.m.
Trieste	54	45	o	0	Davos	-	-	-	-
Naples	57	53	o	0	Lucerne	-	-	-	-
Palermo	67	54	o	0	Lausanne	-	-	-	-
Malta	62	57	?	0					

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

3 ... X.I.I. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.45	11.43	3.41
Greenwich	7.48	11.50	3.52
Wick	8.41	12.2	3.23
Valencia	8.31	12.31	4.31

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ „ £1 10 0 „ „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

Thursday 4th December.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.	YESTERDAY EVENING. (See note on last page.)						THIS MORNING. (See note on last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.	Force (0 to 12.)	Weather.		Barometer.	Temperature.				Wind.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.
	At 82° and M.S.L.	Dry Bulb.	Dirac.				At 82° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.					Max.	Min.		
	Ins.						Ins.	Ins.	°	°										
SCANDINAVIA.	Haparanda ...	30.60	-19	N	2	b	30.75	+25	-24	-25	-2	Z	0	b	*	-	-18	-27	*	-
	Hernösand ...	30.70	-3	Z	0	b	30.80	+24	-7	-9	-18	Z	0	b	*	-	2.16	-7	*	-
	Stockholm ...	30.62	17	NNE	2	o	30.74	+31	13	13	-1	NE	2	b	*	-	18	10	*	-
	Wisby ...	30.48	19	E	2	s	30.67	+38	22	21	+3	E	2	s	*	-	30	4	*	0.16
	Karlstad ...	30.65	19	NE	2	o	30.80	+32	13	12	-4	NNE	2	bc	*	-	*	*	*	-
	Færder (X'iania Fjord)	30.60	24	NE	6	o	30.77	+34	22	21	+1	NNE	5	o	2	-	24	21	*	-
	Bodö ...	30.62	16	E	4	b	30.66	+17	24	21	+7	E	4	c	1	-	24	17	*	-
	Christiansund ...	30.61	28	E	2	b	30.73	+34	26	24	-1	E	3	b	3	-	28	25	*	-
BRITISH ISLANDS.	Skudesnaes ...	30.63	23	E	4	b	30.74	+41	19	18	-4	E	2	b	2	b, o	25	19	*	*
	Sumburgh Head ...	30.44	35	SE	4	o	30.56	+33	38	33	+3	S	3	o	6	c, o	38	33	*	-
	Stornoway ...	30.25	43	S	3	o	30.39	+39	40	36	-3	SSW	4	b	5	r, o	49	38	0.0	0.04
	Malin Head ...	30.21	38	S	4	b	30.39	+38	38	35	-2	SSE	5	bc	2	bc, b	43	36	*	-
	Blacksod Pt. ...	30.15	47	SSE	4	om	30.27	+26	44	?	+4	SSE	6	tm	5	c, om	48	39	*	0.03
	Valencia ...	30.21	48	Z	0	om	30.31	+25	47	45	+11	SE	5	oap	5	o, om	50	35	0.0	0.11
	Roche's Point ...	30.22	44	SE	2	om	30.40	+36	45	41	+4	SSE	4	o	4	o, om	48	39	*	-
	Parsonstown ...	30.24	40	SSE	1	o	30.41	+36	37	35	+5	SE	5	otsq	*	o	43	31	1.0	0.02
GERMANY, &c.	Donaghadee ...	30.29	43	SW	2	c	30.49	+44	42	40	+1	SE	3	cg	2	-	43	38	*	-
	Liverpool Obsy. ...	30.33	35	ESE	1	cm	30.59	+63	29	28	-9	SE	1	m	?	cm	39	29	*	-
	Holyhead ...	30.27	37	E	3	b	30.53	+58	30	29	-14	E	1	bc	1	cm, b	45	29	*	-
	Pembroke (St. Ann's)	30.22	46	NE	4	b	30.48	+52	34	32	-15	E	4	begm	3	-	49	32	4.3	-
	Scilly (St. Mary's) ...	30.18	50	NNW	4	c	30.37	+44	47	44	-4	E	5	o	5	c	52	44	2.5	-
	Jersey (St. Aubins) ...	30.12	47	NW	3	omg	30.45	+59	37	34	-12	ENE	3	bcm	3	bc, omg	52	37	5.5	-
	Portland Bill ...	30.20	38	NE	3	cm	30.49	+60	31	29	-11	NE	4	b	3	c, cm	48	28	*	-
	Dungeness ...	30.12	37	NE	6	c	30.44	+61	36	36	-1	E	4	s	2	o, c, s	41	29	*	-
FRANCE.	Wick ...	30.34	39	SE	7	bc	30.50	+38	39	37	0	SE	7	bc	5	-	41	37	*	0.01
	Nairn ...	30.34	37	Z	0	c	30.50	+42	32	31	-6	E	1	bc	1	-	39	27	*	-
	Aberdeen ...	30.40	37	SE	3	o	30.60	+46	36	31	-1	SE	3	c	4	o, ts	39	34	0.1	0.01
	Leith ...	30.32	36	E	1	b	30.57	+49	30	30	-8	SE	1	bcm	*	-	40	29	*	0.02
	North Shields ...	30.32	37	ESE	2	oph	30.58	+54	38	34	-6	E	3	o	4	coph, ts	44	34	*	0.18
	Spurn Head ...	30.28	34	E	4	s	30.51	+55	36	34	0	ENE	5	csp	4	-	38	33	*	0.10
	Yarmouth ...	30.18	35	E	6	c	30.46	+57	34	32	-2	NE	6	oq	5	s, c	39	31	*	0.14
	Loughborough ...	30.31	32	ENE	1	b	30.54	+61	28	28	-8	WNW	1	om	*	d, b, os	37	24	*	0.02
SPAN. PEN.	Oxford ...	30.35	29	NE	2	b	30.54	+62	28	28	-5	N	2	b	*	o, b	37	25	*	0.01
	London (Brixton) ...	30.21	34	NE	4	oq	30.48	+59	30	29	-6	E	2	b	*	ops, bc	40	29	0.0	-
	The Scaw (Skagen) ...	30.59	22	ENE	5	b	30.68	+35	24	23	+1	E	4	c	1	-	25	21	*	-
	Fanö ...	30.47	22	N	4	c	30.59	+43	23	22	-2	N	4	c	*	-	28	21	*	-
	Cuxhaven ...	30.25	27	NE	4	o	30.46	+39	25	24	+3	NE	4	b	*	-	28	21	*	-
	The Helder ...	30.24	28	E	3	o	30.45	28	28	28		ENE	4	bc	3	-	28	23	*	-
	Brussels ...	*	*	*	*	*	30.43	+57	21	20	-9	NE	4	b	*	-	30	18	*	-
	Berlin ...	30.17	19	NE	3	o	30.36	+37	14	13	+3	NE	3	bc	*	-	19	13	*	-
FRANCE.	Frankfurt ...	30.08	20	NE	4	o	30.25	+44	17	16	-17	NE	5	b	*	-	34	16	*	0.04
	Munich ...	29.90	29	W	5	o	29.97	+14	19	18	-18	NNW	3	s	*	-	43	18	*	-
	C. Gris Nez ...	30.10	34	ENE	6	o	30.46	+65	28	28	-17	ENE	4	m	4	-	46	28	*	-
	Brest ...	30.21	51	N	3	c	30.38	+55	42	41	-7	ENE	3	o	5	-	52	41	*	-
	Lorient ...	30.14	50	N	4	c	30.40	+65	37	36	-14	E	5	c	5	-	57	36	*	-
	Rochefort ...	30.08	50	N	4	bc	30.26	+50	39	37	-11	NNE	4	o	0	o, bc	52	36	*	-
	Biarritz ...	30.15	52	WNW	7	t	30.26	+23	54	51	+4	WNW	5	t	5	t, b, t	55	50	*	0.79
	Paris ...	30.05	25	N	5	o	30.34	+52	23	21	-18	N	4	bc	*	-	46	21	*	-
SPAN. PEN.	Belfort ...	29.87	40	WSW	3	m	30.12	+26	18	17	-22	ENE	4	s	*	-	44	18	*	-
	Lyons ...	29.95	42	NW	1	t	30.12	+19	35	34	-2	NNW	3	o	*	-	48	31	*	0.12
	Nice ...	29.78	49	NE	1	c	29.79	+61	41	34	-7	E	1	b	1	-	59	39	*	-
	Perpignan ...	29.93	50	NW	4	o	30.06	+10	47	41	+6	NW	6	b	*	-	59	46	*	-
SPAN. PEN.	Corunna ...																		*	-
	Lisbon ...																		*	-
	Azores (P. Delgada)																		*	-

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

* Observations received too late for insertion. In Cases on next day.

WEATHER CHARTS

FOR *Thursday, 4th December, 1902.*

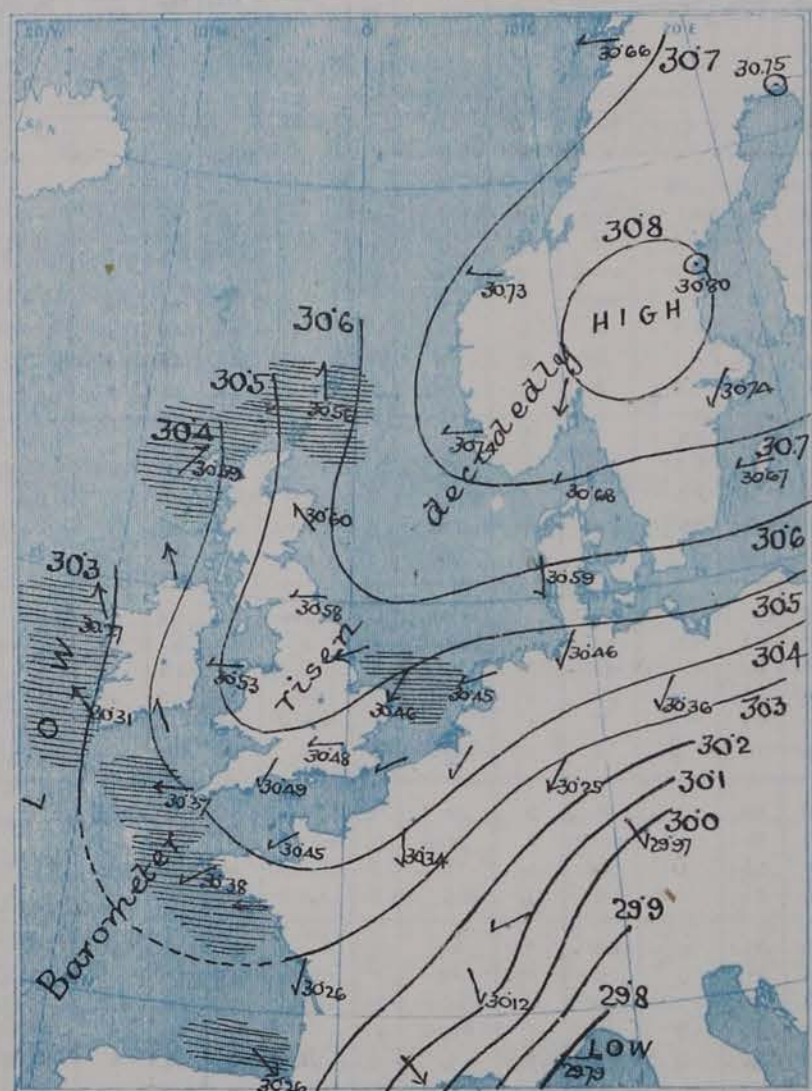
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 → }

SEA.—Rain ☁ High ☀

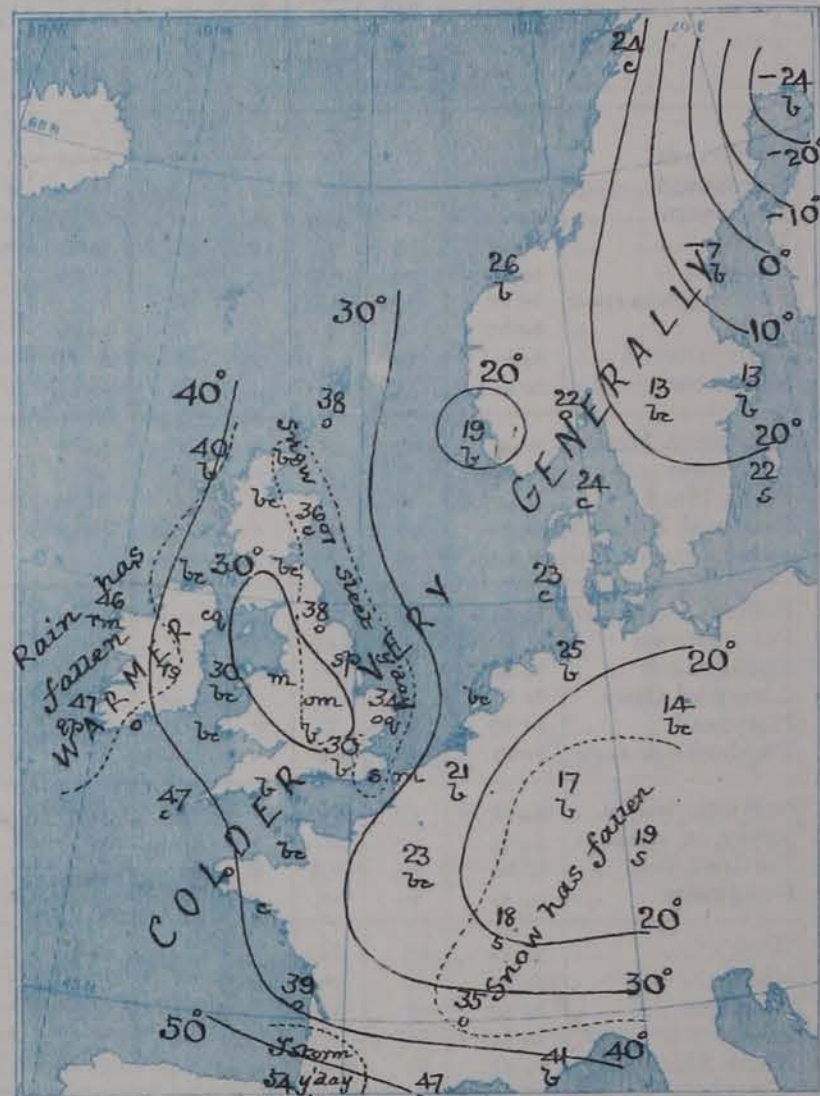


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus -0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period
NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone recently noticed over Scandinavia has now extended over nearly the whole of North Western Europe, and the barometer continues to rise generally; at the Scandinavian stations the readings now vary between 30.7 ins. and 30.8 ins. The lowest pressures, 29.8 ins. and less, are at present reported over the south east of France and the neighbouring parts of the Mediterranean. Gradients are rather steep over Germany and the east and south of France, but slight elsewhere.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is Easterly or North Easterly over England and the western parts of the continent generally; in the south of France it draws into North West or West. South Easterly breezes are reported in Ireland and Scotland, and blow strongly on our extreme western and northern coasts.

Temperature has again fallen at all but the Irish stations - quickly over France and South Germany, and is now below the average in all parts of western Europe excepting our own extreme south west coasts, where the thermometer stands slightly over 45°. Frost prevails over the inland parts of Great Britain (the lowest morning reading reported in these islands being 22° at Newton Reigny, near Penrith) and in the western, northern and central parts of the continent generally. In Germany and the south of Sweden the readings are mostly below 20°, while in the North of Sweden they are below zero.

The weather is fair or fine over western Europe as a whole, but snow is reported on some parts of our East and South East coasts, as well as at Wisby, Munich and Belfort, rain or sleet is falling in the west and south of Ireland. The sea is rather rough on our northern, eastern and extreme western coasts.

Sleet or snow fell yesterday in many parts of Great Britain, and a thunderstorm occurred at Biscaritz and Sanguinaires (Corsica). The lowest temperatures reported in our islands last night were:- In the screen 22° at Bath, 24° at Loughborough, and 25 at Oxford; on the grass 18° at Oxford and 19° in London.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the west of Ireland the barometric rise is now slackening and the wind is increasing again from the South East, with rain. A cyclonic disturbance is probably approaching from the Atlantic, and is likely to occasion rough unsettled weather over the greater part of Ireland and Scotland. Over England the weather will probably remain for the present under the influence of the northern anticyclone.

FORECASTS *

For the 24 hours ending at NOON on 5th December 1902

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SE ^{ly} winds increasing in force; fair at first, snow or sleet later.
2	SCOTLAND EAST	
3	ENGLAND N.E.	E ^{ly} winds moderate or fresh, fair, cold.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	E ^{ly} and NE ^{ly} winds, moderate or fresh, fair generally, but snow showers in places.
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^{os} 0 and 1.
7	ENGLAND N.W.	Same as N ^o 2.
8	ENGLAND S.W.	E ^{ly} and SE ^{ly} winds, strong; fair at first, rain or sleet later.
9	IRELAND NORTH	SE ^{ly} winds increasing in force; unsettled, some rain or sleet.
10	IRELAND SOUTH	
WARNINGS		The South Cone is still flying in parts of districts 0 and 1.

Note.—The South Cone, point downwards (⌣), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards (⌢), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	0.8 0.5	38	28	0.0	0.04
Newton Reigny (Penrith)	30.33	30	20	b	30.52	+ .54	22	21	- 13	20	b	*	0.6, 6	38	21	2.0	-
Bath	30.24	34	NW 1	0	30.53	+ .60	27	26	- 12	N 1	f	*	-	40	22	0.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	36	31	c, o, c	2.2	0.24	Worthing	*	*	*	1.5	*
Birmingham, 9 p.m. ...	38	30	b	0.0	0.08	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	45	32	c	0.0	0.01	Rhyl	*	*	*	2.2	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	43	30	b	0.9	0.02
Eastbourne	*	*	*	1.6	*	Manchester, 9 p.m. ...	40	30	b	0.0	0.06
Brighton	*	*	*	1.2	*	Darwen, 9 p.m. ...	41	28	bc	1.0	0.03

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
3. XII. 02									
Madeira (Funchal) <i>not rec.</i>				Ins.	Algiers	68	59	c bc	Ins.
Madrid	55	39	b c	-	Tunis	63	54	o o	-
Corsica (I. Sanguinaires) ...	61	46	f g	-	Vienna	32	30	m c	0.04
Rome	57	42	b b	-	St. Petersburg ...	5	0	s o	-
Florence	50	47	b m	-	2. XII. 02	1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	52	43	o o	-	Lugano	46	-	b	-
Naples	61	52	b o	-	Davos	34	-	bc	0.12
Palermo	66	49	b o	-	Lucerne	50	-	bc	0.08
Malta	64	59	? o	-	Lausanne	46	-	o	0.24

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b, blue sky; c, detached clouds; d, drizzling rain; f, fog; g, dark, gloomy; h, hail; l, lightning; m, misty (hazy); o, overcast; p, passing showers; q, squally; r, rain; s, snow; t, thunder; u, ugly, threatening; v, visibility, unusual transparency; w, dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

4 XII., 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.46	11.43	3.40
Greenwich	7.49	11.50	3.52
Wick	8.43	12.2	3.22
Valencia	8.32	12.31	4.30

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on FRIDAY 5TH DECEMBER. 1902
 Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall Ins.		
		At 8 ³⁰ and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 8 ³⁰ Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.				
																				Ins.	Ins.
SCANDINAVIA.	Haparanda ...	30.67	4	Z	0	o	30.50	-2.5	13	12	+3.9	NE	2	b	*	-	13	-2.9	*	-	
	Hernösand ...	30.88	-7	Z	0	b	30.80	.00	-4	-6	+3	Z	0	b	*	-	1	-7	*	-	
	Stockholm ...	30.93	21	Z	0	o	30.95	+2.1	18	17	+5	NW	2	b	*	-	21	10	*	-	
	Wisby ...	30.86	23	Z	0	o	30.91	+2.4	24	23	+2	ENE	2	o	*	-	25	14	*	0.04	
	Karlstad... ..	30.97	10	NNW	2	b	31.01	+2.1	5	5	-8	Z	0	b	*	-	*	*	*	-	
	Færder (X'ania Fjord)	30.93	23	NNE	4	c	30.96	+1.9	21	20	-1	N	2	o	1	-	23	19	*	-	
	Bodö ...	30.64	37	E	7	o	30.49	-1.7	39	38	+15	SW	6	o	4	-	39	23	*	-	
	Christiansund ...	30.78	26	E	4	b	30.77	+0.4	24	23	-2	E	2	b	3	-	28	24	*	-	
	Skudesnaes ...	30.88	26	ESE	2	b	30.89	+1.5	28	25	+9	ESE	6	c	4	b	28	19	*	*	
	Sumburgh Head ...	30.60	38	S	4	o	30.58	+0.2	38	33	0	S	4	o	6	o	39	37	*	-	
Stornoway ...	30.39	41	SW	7	ou	30.40	+0.1	37	33	-3	SW	6	b	6	o, ou	49	35	0.0	-		
Malin Head ...	30.41	38	SE	7	cg	30.37	-0.2	35	32	-3	SE	5	bc	3	o, cg	39	32	*	-		
Blacksod Pt. ...	30.31	41	SE	7	om	30.24	-0.3	38	36	-6	SE	7	cm	5	r, om	44	37	*	0.02		
Valencia... ..	30.33	47	ESE	5	og	30.22	-0.9	45	44	-2	SE	7	o	5	o, og	49	44	0.0	0.01		
BRITISH ISLANDS.	Roche's Point ...	30.44	45	SE	5	o	30.34	-0.6	43	39	-2	SE	5	o	2	o	46	41	*	0.04	
	Parsonstown ...	30.44	38	SE	7	o	30.38	-0.3	34	31	-3	ESE	6	og	*	o, sq	38	33	0.0	0.15	
	Donaghadee ...	30.56	41	SSW	4	c	30.49	.00	44	43	+2	SSW	5	o	3	-	?	37	*	-	
	Liverpool Obsy. ...	30.63	34	ESE	2	c	30.58	-0.1	28	26	-1	ESE	2	b	?	f, c	35	27	*	-	
	Holyhead ...	30.59	33	SE	1	b	30.53	.00	29	28	-1	ESE	1	b	1	c, b	37	26	*	-	
	Pembroke (St. Ann's)	30.53	37	E	4	bc	30.45	-0.3	33	31	-1	E	6	bc	5	-	39	31	3.1	-	
	Scilly (St. Mary's)...	30.46	43	E	5	o	30.32	-0.5	43	40	-4	E	5	c	6	o	47	39	0.0	-	
	Jersey (St. Aubins)...	30.47	34	ENE	3	ogm	30.42	-0.3	29	27	-8	NW	2	bcm	2	sp, ogm	39	29	0.4	-	
	Portland Bill ...	30.53	33	NE	3	b	30.48	-0.1	30	29	-1	NE	4	bc	3	bc, b	35	27	*	-	
	Dungeness ...	30.48	33	E	5	sq	30.40	-0.4	34	33	-2	E	6	o	3	sq	40	28	*	0.67	
Wick ...	30.51	39	S	8	o	30.52	+0.2	38	36	-1	S	7	cg	6	-	40	36	*	-		
Nairn ...	30.57	34	SSE	3	bc	30.53	+0.3	30	29	-2	Z	0	b	1	-	38	28	*	-		
Aberdeen ...	30.65	38	SSE	3	o	30.61	+0.1	37	32	+1	SE	4	og	4	o	39	36	0.3	-		
Leith ...	30.62	35	SE	1	bc	30.59	+0.2	33	31	+3	E	1	om	*	-	38	29	*	-		
North Shields ...	30.64	38	ESE	3	ohp	30.60	+0.2	37	35	-1	ESE	3	ohsp	4	c, ohp	38	36	*	0.01		
Spurn Head ...	30.58	37	E	5	bc	30.55	+0.4	36	34	0	ENE	5	csp	4	-	37	31	*	0.03		
Yarmouth ...	30.50	34	ENE	6	csq	30.49	+0.3	34	32	0	ENE	7	cgq	6	s, csq	40	30	*	0.16		
Loughborough ...	30.60	32	NE	1	b	30.57	+0.3	28	27	0	NE	1	cm	*	c, bc, cm	36	23	*	-		
Oxford ...	30.59	28	NE	3	b	30.55	+0.1	24	23	-4	NNE	1	b	*	b	37	23	*	-		
London (Brixton) ...	30.54	32	NE	2	o	30.47	-0.1	31	30	+1	NE	3	og	*	bc, og, s	36	27	0.1	0.01		
GERMANY, &c.	The Scaw (Skagen) ...	30.89	26	E	4	bc	30.91	+2.3	27	27	+3	SE	3	o	1	-	27	23	*	-	
	Fanö ...	30.67	22	N	4	b	30.70	+1.1	27	25	+4	NE	2	c	*	-	27	19	*	-	
	Cuxhaven ...	30.58	28	NE	5	o	30.68	+2.2	20	19	-5	E	5	o	*	-	28	19	*	-	
	The Helder ...	30.54	30	ENE	3	b	30.58	+1.3	18	17	-10	E	9	b	3	-	30	18	*	-	
	Brussels... ..	*	*	*	*	*	30.46	+0.3	19	18	-2	NE	3	o	*	-	27	18	*	0.04	
	Berlin ...	30.56	12	NE	3	o	30.65	+2.9	16	16	+2	SE	3	o	*	-	19	10	*	-	
	Frankfurt ...	30.43	16	NE	7	o	30.44	+1.9	11	10	-6	NNE	4	o	*	-	19	10	*	-	
	Munich ...	30.20	17	Z	0	S	30.16	+1.9	17	17	-2	E	7	o	*	-	21	16	*	0.12	
FRANCE.	C. Gris Nez ...	30.47	27	E	4	S	30.39	+0.7	23	28	+3	E	4	o	5	-	39	25	*	0.04	
	Brest ...	30.46	39	E	1	c	30.41	+0.3	36	32	-6	E	3	c	5	-	50	36	*	-	
	Lorient ...	30.44	39	E	3	bc	30.39	-0.1	32	32	-5	ENE	4	b	5	-	48	30	*	-	
	Rochefort ...	30.34	33	NNE	6	b	30.31	+0.5	25	25	-14	NNE	6	bc	*	bc, b	39	23	*	-	
	Biarritz ...	30.33	39	NE	3	c	30.34	+0.8	25	25	-2.9	ENE	3	b	4	-	54	24	*	0.16	
	Paris ...	30.41	25	NNE	5	b	30.34	.00	22	21	-1	NE	5	o	*	-	28	21	*	-	
SPAN. PEN.	Belfort ...	30.22	16	ENE	6	S	30.18	+0.6	15	14	-3	ENE	7	m	*	-	40	14	*	0.08	
	Lyons ...	30.23	21	NNW	4	S	30.19	+0.7	19	17	-16	NNW	2	S	*	-	35	18	*	0.04	
	Nice ...	29.68	46	E	3	*	29.60	-1.9	44	36	+3	ENE	2	o	5	-	59	39	*	0.16	
	Perpignan ...	30.06	36	NW	5	b	29.99	-0.7	27	23	-20	NW	8	b	*	-	49	26	*	-	
	Corunna ...																				
Lisbon ...	30.24	53	N	3	b	30.13	-2.0	46	44	-3	NNE	2	o	*	-	57	45	*	-		
Azores (P. Delgada)	29.94	60	N	3	b	29.87	+0.3	56	53	-9	Z	0	o	3	-	68	55	*	0.12		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

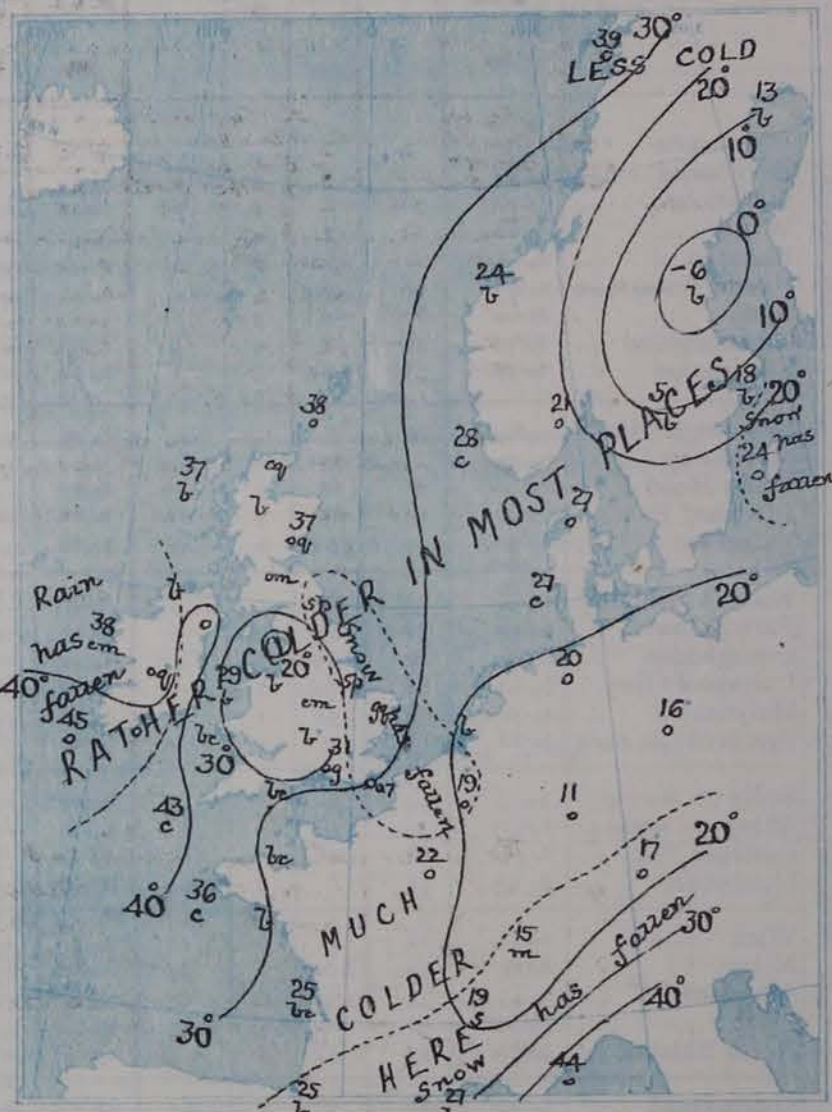
* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

Friday, 5th December,

1902



**IV. Means of Daily Recorded BRIGHT
SUNSHINE (1881-1900), together
with Means of Possible Duration.
for DECEMBER.**

Specimen.	{	Average N ^o of	} 0.8
(for Stornaway)		Hourly daily	
		Total Possible	6.3

at 8 A.M. for the Two monthly period
NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over northern Europe has increased in intensity, the readings of the barometer being now above 30.9 ins. over the whole of the south of Scandinavia; at Karlstad the reading is as high as 31.01 ins. In these regions and also over Denmark and North Germany the mercury is still rising, but in nearly all other parts of our area it is falling, the change being slight as a rule but rather brisk in the north of Scandinavia. The lowest readings 29.6 ins. and less are found in a small but deep cyclonic system lying over the Gulf of Genoa.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is Easterly over Denmark, Germany and the Netherlands, with a gale at the Helder, and North Easterly over the greater part of England and France, strong in force on our east and south east coasts. In the west of Ireland it is very strong from the south Eastward, and in the north of Scotland from the Southward.

Temperature has again fallen in most places, quickly over the southern parts of France, the change since yesterday amounting to as much as 29° at Biarritz and 20° at Perpignan. Sharp frost prevails over the inland parts of England, the lowest morning temperatures reported being 18° at Newston Reigny (Perth) and 24° at Oxford and Bath. On the continent the frost is severe, readings below 20 being reported in most parts of Sweden, Germany, the Netherlands and central France; in the north of Scandinavia the thermometer has risen considerably, as much as 37° at Haparanda.

Fair weather is reported over Western Europe as a whole, but snow showers are falling in the east and south east of England; snow is also reported at Lyons.

The sea is rough or rather so on most of the more exposed parts of our coasts.

The lowest temperatures reported as occurring over these islands last night were:- in the screen 23° at Loughborough and Oxford and 24° at Bath; and on the grass 17° at Oxford and 22° in London.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometrical changes now in progress are in favour of a general increase in the strength of the wind, - from the South East in the west and north, but from the East and North East in the east and south east. The low pressure system over the Gulf of Genoa is beginning to surge northwards, and snow showers are probable in many parts of England.

FORECASTS *

For the 24 hours ending at NOON on 6th December 1902

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	S ^{ly} and SE ^{ly} winds increasing in force; cloudy, some snow showers.
2	SCOTLAND EAST	
3	ENGLAND N.E.	Same as N ^o 5.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	E ^{ly} and NE ^{ly} winds, strong on coast; changeable, some snow showers. Very cold.
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

7	SCOTLAND WEST	Same as N ^o 5. O. and I.
8	ENGLAND N.W.	E. and SE winds, increasing in force, fair at first, some snow later
9	ENGLAND S.W.	
10	IRELAND NORTH	SE winds, strong to a gale unsettled, some cold rain or sleet.
11	IRELAND SOUTH	
WARNINGS		At 7.5 p.m. yesterday to Districts 0, 6, 10 and parts of 1 and 9. "HOIST SOUTH CONE"

Note.—The South Cone, point downwards (⌵), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (⌴), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	3.0	34	20	1.0	0.11
Newton Reigny (Penrith)	30.61	26	20	6	30.55	+0.3	18	18	-4	20	6	*	10.0m	35	18	0.0	-
Bath	30.52	30	NW 1	0	30.52	-0.1	24	24	-3	NW 1	0	*	-	36	24	5.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	23	18	0	0.0	0.02	Worthing	*	*	*	6.0	*
Birmingham, 9 p.m. ...	35	27	3	0.1	-	Llandudno	*	*	*	3.0	*
Lowestoft, up to 6 p.m. ...	38	30	C, S	2.4	0.10	Rhyl	*	*	*	5.2	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	33	24	c	0.4	-
Eastbourne	*	*	*	0.5	*	Manchester, 9 p.m. ...	37	25	6	1.0	-
Brighton	*	*	*	3.3	*	Darwen, 9 p.m. ...	33	25	cm	0.4	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
4. XII. 02									
Madeira (Funchal)	66	57	0 0	Ins.	Algiers	68	57	r 0	Ins.
Madrid	55	32	6 6	-	Tunis	59	46	m r	0.28
Corsica (I. Sanguinaires) ...	59	46	0 f	0.16	Vienna	45	19	s 0	?
Rome	55	41	0 0	-	St. Petersburg	?	?	s s	-
Florence	45	34	6 m	-	3. XII. 02	1 p.m.	1 p.m.		Measured 7 a.m.
Trieste	52	41	6 c	-	Lugano	48	-	6	-
Naples	58	46	0 0	0.28	Davos	32	-	bc	0.08
Palermo	66	49	0 0	0.20	Lucerne	45	-	bc	0.12
Malta	64	52	?	0.28	Lausanne	43	-	0	0.08

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

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	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

5. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.47	11.44	3.40
Greenwich	7.50	11.51	3.52
Wick	8.45	12.3	3.21
Valencia	8.33	12.32	4.30

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„ Weekly „ „ „ „ £1 10 0 „ Single Copies, 6d.

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FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Saturday 6th December.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.				
																				Ins.	Ins.
SCANDINAVIA.	Haparanda ...	30.30	30	NE	2	o	30.32	-18	35	34	+22	W	2	o	*	-	?	1	*	-	
	Hernösand ...	30.67	5	Z	0	o	30.56	-24	35	33	+39	NW	2	o	*	-	?	-6	*	-	
	Stockholm ...	30.77	15	W	2	b	30.65	-30	13	12	-5	Z	0	bc	*	-	21	12	*	-	
	Wisby ...	30.82	27	NNE	2	o	30.64	-27	28	27	+4	N	4	bc	*	-	28	18	*	-	
	Karlstad ...	30.88	7	N	2	b	30.75	-26	3	3	-2	N	2	b	*	-	*	*	*	-	
	Færder (X'iania Fjord)	30.86	22	NNW	2	o	30.75	-21	20	19	-1	NNW	2	m	1	-	22	18	*	-	
	Bodö ...	30.45	41	SW	8	f	30.50	+01	41	40	+2	SW	6	o	4	-	41	37	*	-	
	Christiansund ...	30.76	32	E	3	b	30.71	-06	18	?	-6	E	3	o	4	-	32	?	*	-	
	Skudesnaes ...	30.86	28	SE	4	b	30.75	-14	28	26	0	ESE	4	c	2	c,b	28	27	*	*	
BRITISH ISLANDS.	Sumburgh Head	30.55	38	S	5	o	30.48	-10	40	36	+2	S	4	o	6	o	40	35	*	-	
	Stornoway ...	30.39	37	SW	5	b	30.34	-06	39	35	+2	SW	4	o	5	b	40	35	4.1	-	
	Malin Head ...	30.35	34	SSE	5	b	30.32	-05	35	33	0	SE	4	o	2	bc,b	35	33	*	-	
	Blacksod Pt. ...	30.19	38	SE	7	bm	30.20	-04	36	34	-2	SE	6	bcm	?	b,bm	39	35	*	-	
	Valencia...	30.13	45	SE	6	og	30.13	-09	43	40	-2	ESE	4	o	4	c,og	47	41	0.1	0.01	
	Roche's Point ...	30.24	43	SE	7	o	30.21	-13	42	39	-1	SE	5	o	2	o	44	40	*	-	
	Parsonstown ...	30.30	33	SE	4	b	30.28	-10	31	30	-3	SE	5	bg	*	b	37	31	4.9	-	
	Donaghadee ...	30.45	39	SSW	3	o	30.37	-12	39	35	-5	S	3	o	3	-	39	33	*	-	
	Liverpool Obsy.	30.49	33	ESE	2	o	30.42	-16	27	26	-1	SE	3	b	2	om	34	27	*	-	
GERMANY, &c.	Holyhead ...	30.45	32	ESE	1	b	30.36	-17	28	27	-1	SE	1	b	0	b	34	27	*	-	
	Pembroke (St. Ann's)	30.36	34	E	5	o	30.28	-17	36	35	+3	ESE	5	ogmqu	4	-	37	30	1.8	-	
	Scilly (St. Mary's)...	30.27	40	E	5	c	30.22	-10	42	38	-1	ENE	5	o	5	c	44	37	2.1	-	
	Jersey (St. Aubins)...	30.28	36	ESE	4	ogm	30.28	-14	29	27	0	ESE	5	om	4	csp,ogm	37	28	1.9	0.01	
	Portland Bill ...	30.38	30	NE	4	c	30.30	-18	31	28	+1	ENE	4	c	3	c	33	27	*	-	
	Dungeness ...	30.35	32	E	7	og	30.32	-08	27	27	-7	ESE	4	c	3	o,og	34	25	*	-	
	Wick ...	30.49	39	S	4	c	30.38	-14	40	38	+2	S	6	cu	4	-	40	38	*	-	
	Nairn ...	30.53	28	Z	0	b	30.41	-12	28	27	-2	Z	0	b	0	-	37	24	*	-	
	Aberdeen ...	30.56	36	SE	4	o	30.48	-13	39	36	+2	SE	3	op	4	c,ts,o	40	34	0.0	0.10	
FRANCE.	Leith ...	30.53	34	SE	1	o	30.45	-14	35	33	+2	SE	1	c	*	-	37	31	*	-	
	North Shields ...	30.53	39	ESE	3	orhp	30.46	-14	36	34	-1	SSW	2	o	3	c,orhp	39	35	*	0.01	
	Spurn Head ...	30.47	33	ESE	6	c	30.42	-13	35	35	-1	E	5	b	4	-	37	32	*	0.02	
	Yarmouth ...	30.42	32	ENE	6	og	30.38	-11	32	30	-2	E	6	bc	6	c,og	34	28	*	-	
	Loughborough ...	30.50	29	ENE	3	o	30.42	-15	24	23	-4	NE	1	bm	*	osp,bm	31	24	*	-	
	Oxford ...	30.45	29	NE	3	o	30.38	-17	28	27	+4	NE	2	o	*	sio	32	24	*	-	
	London (Brixton)	30.40	31	NE	4	og	30.34	-13	32	30	+1	NE	3	og	*	sp,og	33	29	0.0	-	
	The Scaw (Skagen)	30.87	28	E	1	o	30.74	-17	25	25	-2	E	1	o	0	-	28	25	*	-	
	Fanö ...	30.67	28	ENE	6	c	30.68	-02	25	23	-2	ENE	4	c	*	-	30	23	*	-	
SPAN. PEN.	Cuxhaven ...	30.67	22	E	5	c	30.59	-09	22	21	+2	E	3	b	*	-	27	20	*	-	
	The Helder ...	30.50	23	E	4	b	30.47	-11	17	16	-1	E	4	b	4	-	23	16	*	-	
	Brussels...	*	*	*	*	*	30.36	-10	11	11	-8	ENE	4	b	*	-	19	10	*	-	
	Berlin ...	30.63	13	ESE	4	b	30.55	-10	9	8	-7	E	3	b	*	-	16	7	*	-	
	Frankfurt ...	30.37	13	NE	4	b	30.38	-06	9	8	-2	NE	4	b	*	-	19	9	*	-	
	Munich ...	30.13	18	E	5	o	30.13	-03	6	6	-11	NW	3	o	*	-	19	5	*	0.94	
	C. Gris Nez ...	30.36	19	ENE	4	bc	30.30	-09	13	12	-18	E	4	b	0	-	?	113	*	-	
	Brest ...	30.27	35	E	3	c	30.21	-20	33	32	-3	E	3	o	26	-	41	32	*	-	
	Lorient ...	30.27	33	NE	4	bc	30.19	-20	28	28	-4	E	4	c	5	-	42	27	*	-	
SPAN. PEN.	Rochefort ...	30.23	28	NE	3	o	30.18	-13	27	25	+2	ENE	3	o	*	c,o	34	23	*	-	
	Biarritz ...	30.30	28	NE	2	bc	30.19	-15	24	23	-1	E	3	b	3	-	32	23	*	-	
	Paris ...	30.29	23	NE	3	b	30.27	-07	19	18	-3	N	3	o	*	-	24	18	*	-	
	Belfort ...	30.17	18	ENE	6	m	30.20	+02	14	14	-1	ENE	4	m	*	-	19	14	*	-	
	Lyons ...	30.21	19	N	2	o	30.19	-00	20	19	+1	NW	2	s	*	-	20	19	*	-	
	Nice ...	29.75	46	Z	0	bc	29.84	+24	37	33	-7	E	1	b	2	-	48	36	*	-	
	Perpignan ...	30.01	29	NW	5	b	30.06	+07	27	23	0	NW	3	b	*	-	32	27	*	-	
	Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lisbon ...	30.02	52	WNW	1	o	29.96	-17	48	47	+2	NE	3	o	*	-	55	46	*	-	
Azores (P. Delgada)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" (Horta)	29.30	59	W	6	bc	29.30	-52	54	50	-6	W	7	+	6	-	64	52	*	0.75		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR

Saturday, 6th December, 1902.

I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 →

Force 5 to 7 →

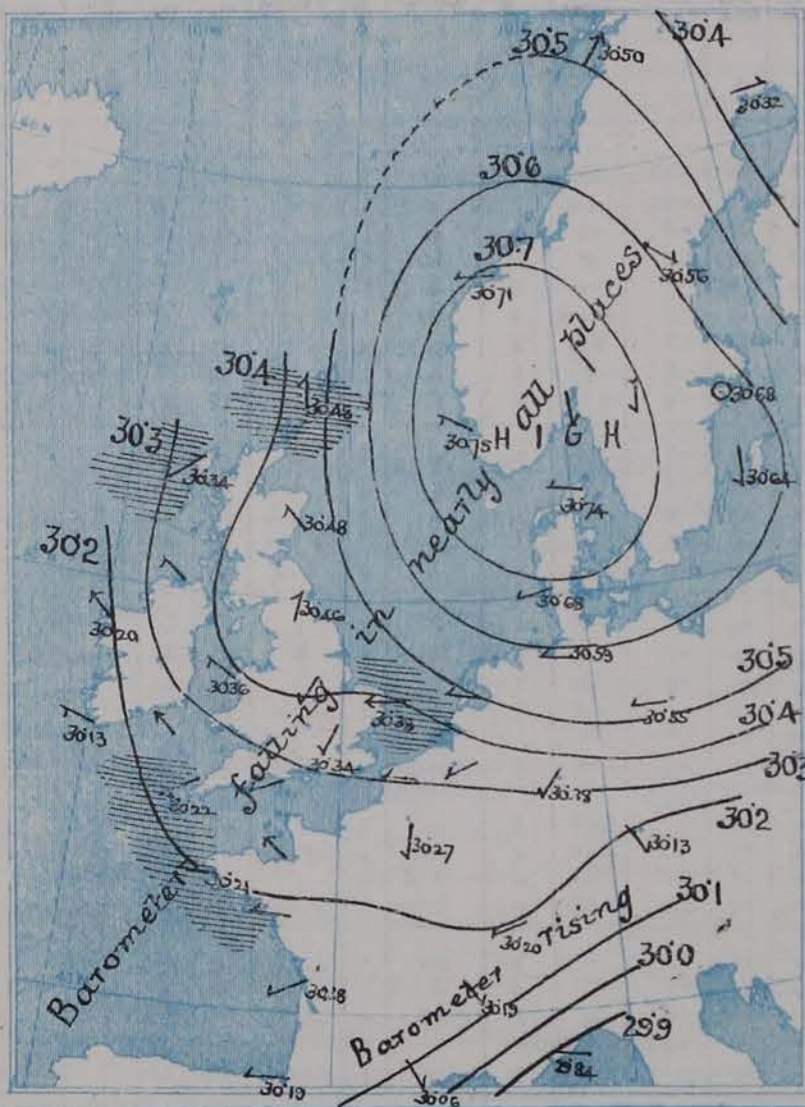
Calm ☉

Force 8 to 10 →

Force 1 to 4 →

Sea—Rough

Heavy

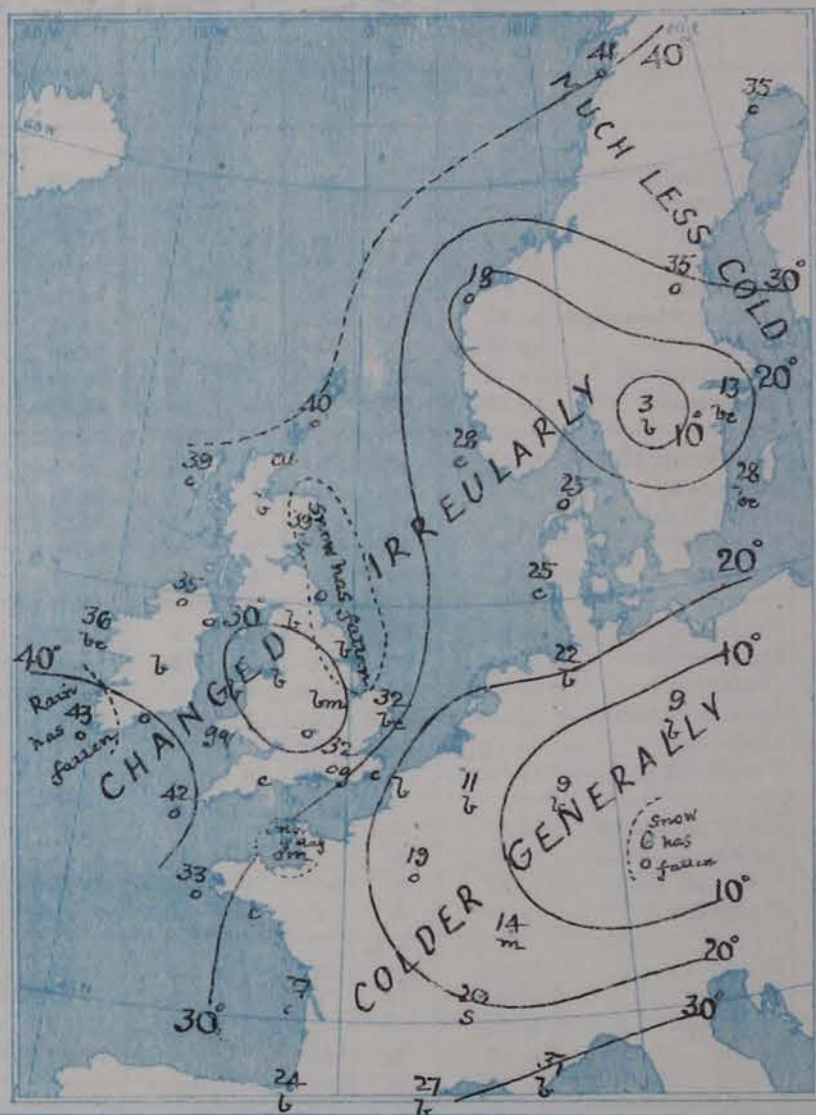


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

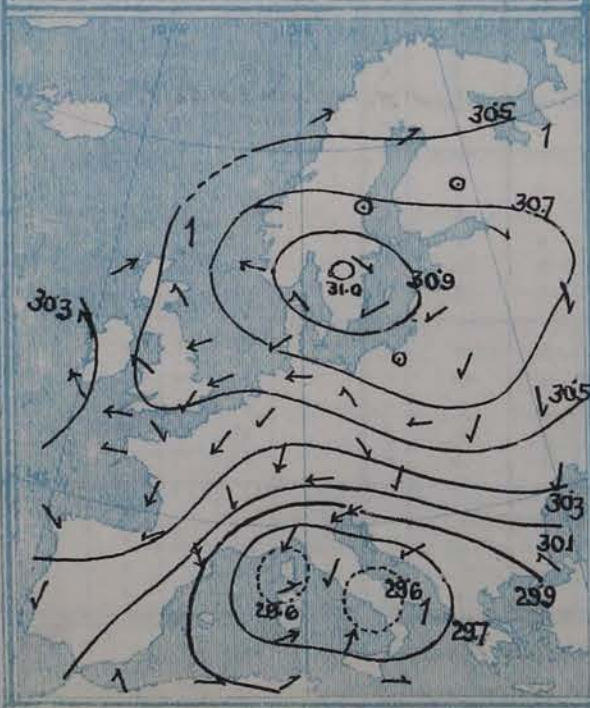
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period

NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over Northern Europe is becoming gradually reduced in intensity, the readings in its central area, which now lies over the north of Denmark and the southern parts of Scandinavia, being very little above 30.7 in. or nearly a quarter of an inch lower than those reported yesterday. A decrease of pressure is also in progress in nearly all other parts of Western Europe, and the barometrical gradients are now moderate. The lowest readings, 29.8 in. and less, are still found in a cyclonic area over the Gulf of Genoa, but the barometer in that neighbourhood is rising and the system is apparently filling up.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is E³ or N.E² over Denmark, Germany, the Netherlands and the greater part of England and France - light or moderate in force generally, but strong on our own eastern coasts. In Ireland and Scotland it is moderate to strong from the S.E.⁴ or S⁴; while in the north of Scandinavia it is S.W.³ or W³. Temperature has changed rather irregularly, but has fallen in most places, and remains low over Western Europe generally. Frost prevails over a considerable portion of Great Britain and also in Central Ireland, the lowest morning readings reported in these islands being 24° at Loughborough and 27° at Newton Reigny (Perrin), Liverpool and Dungeness. Over Germany, the Netherlands and Central France the frost has increased in severity, the readings being now as low as 6° at Munich, 9° at Berlin and Frankfurt, and 11° at Brussels. The weather is fine in Germany, the Netherlands and the north and east of England, but is cloudy in most other parts of our area with passing showers at Aberdeen, and snow at Lyons. The sea is rough off the north of Scotland and at Yarmouth, and is rather rough at the mouth of the Channel.

The lowest temperatures reported as having occurred over these islands last night were 24° at Nairn, Loughborough and Oxford, and 25° at Dungeness; at Loughborough the thermometer on the grass fell to 20°. Two small water-spouts were observed off Dungeness at 7.30 a.m. to-day, moving southwards.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present little indication of any important change in the general distribution of pressure, so that the present cold weather is likely to continue for at least another day or two. It is probable that the anticyclone over Scandinavia will shortly move southwards, and that cyclonic disturbances will appear over the northern parts of that peninsula.

FORECASTS *

For the 24 hours ending at NOON on 7th December, 1902

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ³ and S.W ³ winds, strong; dull, some cold rain or sleet.
1	SCOTLAND EAST	Light breezes chiefly S ⁴ ; fair generally, but some fog or mist.
2	ENGLAND N.E.	
3	ENGLAND EAST	E ³ winds, moderate or fresh; fair generally, but snow showers probable in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	S.E ³ winds, light or moderate; fair, cold.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ³ and S.E ³ winds, fresh; cloudy, cold.
9	IRELAND NORTH	S.E ³ winds, fresh or strong; cloudy, cold.
10	IRELAND SOUTH	

WARNINGS

The signals have been lowered this morning in all districts excepting 0, 6 and parts of 1 and 9.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea	Weather.	Temperature		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	o	33	28	0.3	-
Newton Reigny (Penrith)	30.47	30	20	o	30.39	-16	27	26	+9	SSE 1	b	*	cg, b	34	21.8	1.0	-
Bath	30.38	28	N 4	o	30.34	-18	30	30	+6	S 3	o	*	-	32	22.4	0.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	33	29	o, c, o	0.2	0.01	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	31	26	b	0.0	-	Llandudno	*	*	*	5.0	*
Lowestoft, up to 6 p.m. ...	35	28	o	0.0	-	Rhyl	*	*	*	5.2	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	33	22	o	0.0	-
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	34	24	c, b	0.0	-
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	31	23	ov	0.0	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
5. XII. 02									
Madeira (Funchal) <i>not recd.</i>				Ins.	Algiers	63	52	2 o	Ins. 0.24
Madrid <i>not recd.</i>					Tunis	57	43	7 b	0.94
Corsica (I. Sanguinaires) ...	59	45	o c	0.16	Vienna	21	16	o o	-
Rome	55	44	o r	-	St. Petersburg	7	-11	6 s	-
Florence	49	42	b o	-	1 p.m.			1 p.m.	Measured 7 a.m.
Trieste	45	32	b o	-	Lugano ... 4. XII. 02	45	-	o	-
Naples	53	45	b o	0.39	Davos	27	-	s	-
Palermo	67	47	o c	0.04	Lucerne	25	-	s	0.28
Malta	62	53	? c	0.20	Lausanne	28	-	o	0.16

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

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	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
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Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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Yarmouth	7.49	11.44	3.39
Greenwich	7.51	11.51	3.51
Wick	8.47	12.3	3.20
Valencia	8.35	12.32	4.29

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† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Sunday 7th Decembet. 1902
 Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)						THIS MORNING. (See note on last page.)										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.		BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Max.			Min.					
																			Ins.			Ins.	°
SCANDINAVIA.	Haparanda ...	30.34	27	S	4	o	30.31	-01	14	14	-21	Z	0	m	*	-	37	2	*	-			
	Hernösand ...	30.53	24	Z	0	b	30.51	-05	14	13	-21	Z	0	b	*	-	36	7	*	-			
	Stockholm ...	30.56	16	N	2	b	30.52	-13	19	19	+6	Z	0	f	*	-	21	10	*	-			
	Wisby ...	30.54	28	N	2	o	30.49	-15	31	30	+3	NE	2	o	*	-	31	19	*	-			
	Karlstad...	30.65	11	NNE	2	b	30.59	-16	10	9	+7	N	2	c	*	-	*	*	*	-			
	Færder (X'ania Fjord)	30.64	23	N	5	b	30.57	-18	23	22	+3	N	2	o	1	-	23	18	*	-			
	Bodö ...	30.47	40	SW	4	o	30.34	-16	39	36	-2	SW	6	o	3	-	41	37	*	0.16			
	Christiansund ...	30.61	31	SW	3	o	30.51	-20	29	27	+11	WSW	1	b	4	-	31	218	*	-			
	Skudesnaes ...	30.65	27	Z	0	b	30.57	-18	24	22	-4	E	2	c	2	b	30	24	*	-			
BRITISH ISLANDS.	Sumburgh Head	30.40	40	SSE	4	o	30.31	-17	39	35	-1	SSW	4	bc	7	o	41	35	*	0.07			
	Stornoway ...	30.29	39	SW	4	o	30.25	-09	39	36	0	SW	7	o	7	4.0	40	36	2.0	-			
	Malin Head ...	30.27	35	SE	5	c	30.32	-00	33	31	-2	S	2	bc	1	bc,c	36	31	*	-			
	Blacksod Pt. ...	30.20	37	SE	5	bc	30.23	+03	37	35	+1	SE	5	bc	4	cm, bc	39	35	*	-			
	Valencia...	30.15	44	E	4	cm	30.18	+05	42	38	-1	SE	5	cm	4	cm	46	41	0.0	0.02			
	Roche's Point ...	30.21	45	SE	6	o	30.25	+04	39	37	-3	SE	4	o	3	o	45	38	*	-			
	Parsonstown ...	30.27	36	E	4	c	30.28	-00	29	27	-2	E	2	bc	*	c	36	28	0.1	-			
	Donaghadee ...	30.35	39	SSE	3	bc	30.38	+01	37	34	-2	S	3	bc	3	-	39	35	*	-			
	Liverpool Obsy.	30.41	29	ESE	3	b	30.44	+02	25	23	-2	ESE	2	m	?	bm	33	25	*	-			
GERMANY, &c.	Holyhead ...	30.34	32	E	1	b	30.38	+02	28	27	0	E	1	b	1	b	35	26	*	-			
	Pembroke (St. Ann's)	30.29	33	ESE	5	c	30.30	+02	32	31	-4	E	6	c	4	c.cu	36	30	0.3	-			
	Scilly (St. Mary's)...	30.18	44	E	5	o	30.18	-04	43	41	+1	E	5	c	4	o	45	38	0.1	-			
	Jersey (St. Aubins)...	30.25	32	ENE	5	cmg	30.26	-02	28	26	-1	ENE	4	cm	3	bc, cmg	33	27	2.5	-			
	Portland Bill ...	30.30	30	NE	4	c	30.30	-00	29	27	-2	ENE	5	c	3	c	33	25	*	-			
	Dungeness ...	30.32	32	E	4	bc	30.30	-02	33	32	+6	E	5	bc	3	bc	34	25	*	-			
	Wick ...	30.35	39	S	5	c	30.32	-06	35	33	-5	S	1	b	2	-	41	29	*	-			
	Nairn ...	30.36	31	Z	0	b	30.37	-04	26	25	-2	Z	0	b	0	-	37	23	*	-			
	Aberdeen ...	30.43	38	SSE	4	ogtshp	30.43	-05	31	28	-8	SW	1	b	3	ogtshp	40	29	0.0	0.03			
FRANCE.	Leith ...	30.43	33	SE	1	b	30.44	-01	24	23	-11	Z	0	bm	*	-	39	23	*	-			
	North Shields ...	30.46	35	SE	3	o	30.44	-02	31	30	-5	SSW	2	c	3	c, o	38	28	*	-			
	Spurn Head ...	30.42	34	E	5	bc	30.42	-00	38	36	+3	E	4	cr	4	-	38	34	*	-			
	Yarmouth ...	30.34	34	E	6	bc	30.37	-01	34	32	+2	E	5	c	5	bc	34	30	*	-			
	Loughborough ...	30.42	25	Z	0	b	30.44	+02	15	15	-9	WSW	1	b	*	bm, b	32	14	*	-			
	Oxford ...	30.39	23	E	2	b	30.41	+03	22	21	-6	NE	2	b	*	o, b	30	20	*	-			
	London (Brixton)	30.34	29	ENE	2	og	30.35	+01	29	26	-3	ENE	3	o	*	og, b	33	27	0.0	-			
	The Scaw (Skagen)	30.60	27	NE	1	b	30.54	-20	24	24	-1	E	1	b	0	-	27	21	*	-			
	Fanö ...	30.60	21	NE	2	b	30.52	-16	22	19	-3	NE	2	bc	*	-	28	19	*	-			
SPAN. PEN.	Cuxhaven ...	30.52	29	NE	2	o	30.44	-15	29	28	+7	NE	3	o	*	-	30	22	*	-			
	The Helder ...	30.46	22	E	4	b	30.39	-08	29	28	+12	E	1	c	0	-	29	16	*	-			
	Brussels...	*	*	*	*	*	30.34	-02	19	18	+8	ENE	3	c	*	-	21	11	*	-			
	Berlin ...	30.42	23	N	3	o	30.39	-16	14	14	+5	NNE	3	s	*	-	23	9	*	-			
	Frankfurt ...	30.34	16	NE	4	c	30.26	-12	19	18	+10	NE	3	o	*	-	19	9	*	0.04			
	Munich ...	30.15	12	NW	3	o	30.12	-01	11	11	+5	Z	0	s	*	-	16	6	*	0.04			
	C. Gris Nez ...	30.29	17	E	4	b	30.30	-00	18	18	+5	E	5	o	4	-	23	13	*	?			
	Brest ...	30.22	28	NE	2	b	30.20	-01	25	25	-8	E	2	b	3	-	37	25	*	-			
	Lorient ...	30.20	25	E	4	m	30.17	-02	25	25	-3	E	5	m	2	-	32	23	*	-			
Rochefort ...	30.17	26	NNE	4	o	30.08	-10	?	?	?	?	?	?	o	-	28	23	*	-				
SPAN. PEN.	Biarritz ...	30.14	30	ENE	3	b	30.04	-15	23	22	-1	E	3	b	2	-	32	23	*	-			
	Paris ...	30.29	20	NE	3	b	30.26	-01	14	14	-5	NE	2	b	*	-	25	13	*	-			
	Belfort ...	30.23	14	ENE	5	m	30.20	-00	13	12	-1	ENE	4	m	*	-	18	10	*	-			
	Lyons ...	30.22	23	NNW	2	o	30.21	+02	19	18	-1	NW	3	o	*	s, o	24	19	*	-			
	Nice ...	29.84	40	Z	0	b	29.91	+07	37	33	0	E	2	c	4	-	52	36	*	-			
	Perpignan ...	30.02	33	NW	2	b	30.02	-04	23	23	-4	Z	0	b	*	-	42	27	*	-			
	Corunna ...	29.89	55	SW	1	o	29.85	-12	52	48	+3	SW	1	o	2	-	55	45	*	-			
	Lisbon ...	29.84	55	ESE	4	o	29.75	-21	56	55	+8	E	4	o	*	-	59	48	*	-			
	Azores (P. Delgada)	29.24	59	NNW	5	bc	29.47	+15	59	54	+1	NNW	5	bc	4	-	63	57	*	0.08			
SPAN. PEN.	" (Horta)	29.40	60	NW	5	bc	29.57	+27	59	56	+5	WNW	3	bc	3	-	61	57	*	0.20			

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR SUNDAY, 7th December, 1902.

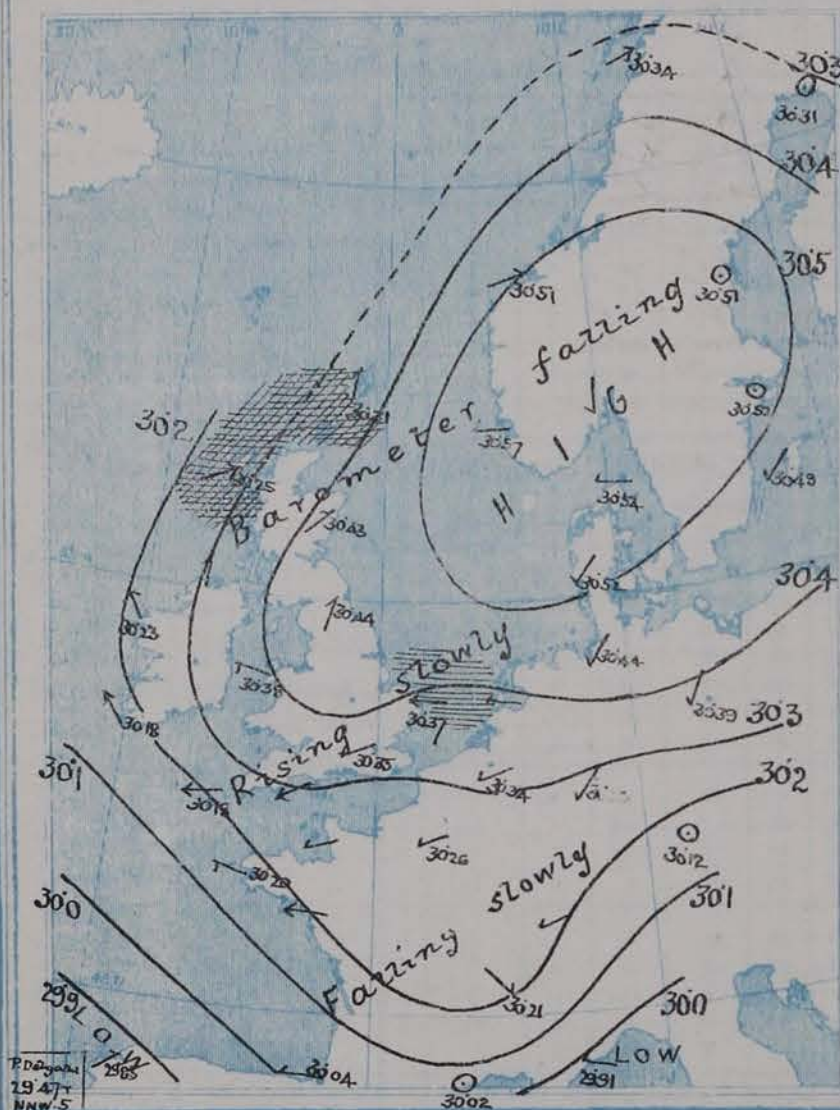
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

☁ Rain ☀ High ☁

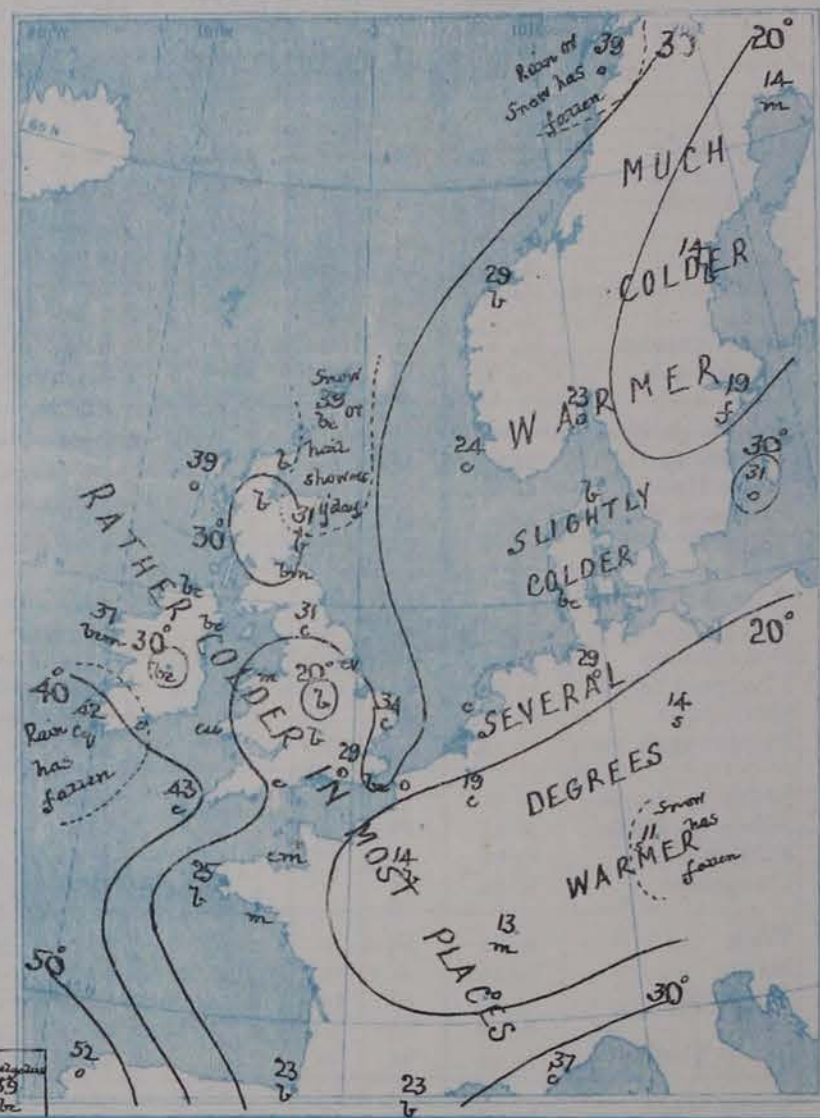


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

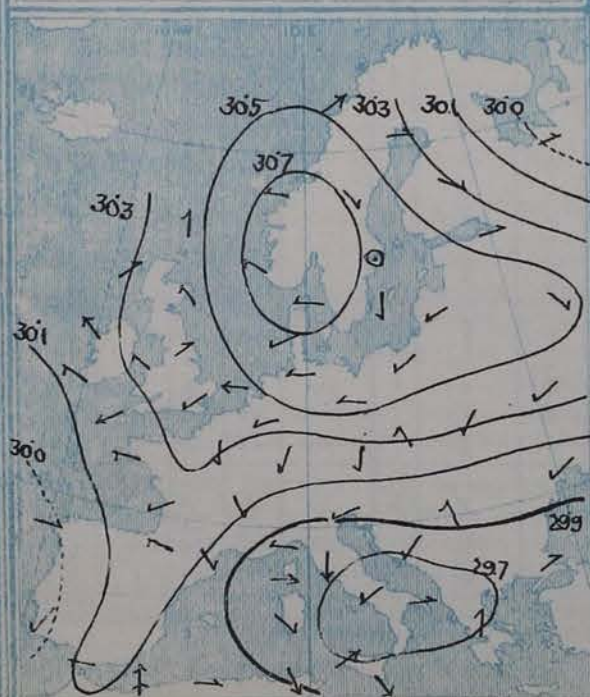
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average N^o of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period NOVEMBER-DECEMBER (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The barometer continues highest, 30.5 ins. and upwards, in a large anticyclone having its central position over the south of Scandinavia, while it is lowest, 29.45 ins., at Lisbon, and relatively low, 29.91 ins., at Nice. Pressure is now rising a little in most parts of the United Kingdom, but falling elsewhere, the changes being most decided within the region of the anticyclone and over the Spanish Peninsula. Gradients are moderate to very slight.

WIND

The wind is E³ or NE³ over Germany, the Netherlands, France and all the more southern districts of England, and in some localities is fresh in force; over Ireland, however, it is moderate or fresh from the SE⁴, while in Scotland and in the north of Norway it draws into SW, and at Stornoway and Bodø blows strongly.

TEMPERATURE

Temperature has risen over the south of Sweden, and also over Germany and its immediate neighbourhood, but fallen in most other regions. Over our Islands it ranges from 43° at Scilly and 39° in the Hebrides and Shetlands to 34° at Falmouth, 24° at Leith, 22° at Oxford, and to 15° at Loughborough. The continental values range from above 50° on the west coasts of the Iberian Peninsula to 37° at Nice, 14° at Paris and Berlin, Haparanda and Helsingfors, to 13° at Belfort and to 10° at Karlstad.

WEATHER

The weather is fine and bright at many of our own stations and in a few places on the continent, but is cloudy or dull as a whole, and snow is falling both at Berlin and Munich.

AND

The sea is high off the north of Scotland, rather rough at Falmouth, moderate to smooth elsewhere.

SEA

During the course of the day the thermometer rose to 45° at Scilly, 44° at Perpignan, 41° at Stornoway, and 40° at Lumburgh H^o and Wick, but only to 35° in many parts of Great Britain and to 32° at Leith. At Paris the maximum was 26°, at Belfort 17° and at Munich 16°. The lowest minimum temperatures recorded over our Islands are 14° at Loughborough, 20° at Oxford, and 23° at Nairn and Leith.

More than four hours of bright sunshine were registered on some parts of our southern coasts and at some western stations, while Aberdeen had just 4 hrs. Elsewhere there was very little or none. Over our Islands and in nearly all parts of our area the weather was dry.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS *

For the 24 hours ending at NOON on 8TH DECEMBER 1902

DISTRICTS.

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

None

issued

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

None

issued

WARNINGS

None issued.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet. °	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	bc, c	34	29	2.3	-
Newton Reigny (Penrith)											*	*					
Bath	30.29	30	NE 2	0	30.37	+0.3	26	26	-4	NE 2	0	*	-	31	21	0.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	33	28	b, c, b	3.6	0.01	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	30	24	b	2.4	-	Llandudno	*	*	*	5.8	*
Lowestoft, up to 6 p.m. ...						Rhyl	*	*	*		*
Hastings	*	*	*	0.6	*	Southport, 9 p.m. ...	33	24	b	0.0	-
Eastbourne	*	*	*		*	Manchester, 9 p.m. ...	36	28	b, o	0.0	-
Brighton	*	*	*		*	Darwen, 9 p.m. ...	32	25	b, v	4.0	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
6 TH DECEMBER 1902									
Madeira (Funchal)	70	57	c, o	Ins. 0.08	Algiers	59	43	o, b	Ins. —
Madrid		NOT RECEIVED.			Tunis	57	41	m, o	0.39
Corsica (I. Sanguinaires) ...	54	36	m, f	—	Vienna	21	10	b, s	?
Rome	50	41	o, o	0.28	St. Petersburg... ..	14	-11	o, o	—
Florence	45	40	o, o	—	5 TH DECEMBER.		1 p.m.	1 p.m.	Measured 7 a.m.
Trieste	39	32	bc, o	—	Lugano	41	—	bc	0.20
Naples	48	41	b, bc	0.32	Davos	23	—	bc	?
Palermo	57	38	b, m	0.35	Lucerne	21	—	s	0.35
Malta... ..	59	51	?, t	0.24	Lausanne	19	—	o	0.04

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard Time.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

7 TH DEC., 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.51	11.45	3.39
Greenwich	7.53	11.52	3.51
Wick	8.49	12.4	3.19
Valencia	8.37	12.33	4.29

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DAILY WEATHER REPORT

for 8 a.m. on

MONDAY 8TH DECEMBER

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.		
		At 82° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Max.	Min.				
		Ins.					Ins.	Ins.	°	°											
SCANDINAVIA.	Haparanda ...	30.15	14	SW	2	b	30.07	-24	21	21	+7	WSW	4	c	*	-	27	10	*	-	
	Hernösand ...	30.41	8	Z	0	b	30.35	-16	6	5	-8	Z	0	b	*	-	27	6	*	-	
	Stockholm ...	30.44	21	Z	0	o	30.38	-14	22	21	+3	NW	2	o	*	-	22	14	*	-	
	Wisby ...	30.41	33	Z	0	f	30.32	-17	34	33	+3	Z	0	f	*	-	34	21	*	-	
	Karlstad ...	30.47	18	NE	2	o	30.40	-19	14	14	+4	NE	4	c	*	-	*	*	*	-	
	Færder (X'iania Fjord)	30.50	23	N	2	b	30.42	-15	24	23	+1	N	4	b	2	-	25	21	*	-	
	Bodö ...	30.15	40	WSW	4	c	29.98	-36	41	38	+2	WSW	4	bc	3	-	41	36	*	0.04	
	Christiansund ...	30.39	39	SW	2	c	30.38	-13	41	36	+12	WSW	5	o	5	-	41	28	*	-	
	Skudesnaes ...	30.50	24	Z	0	b	30.42	-15	22	19	-2	Z	0	b	1	-	28	19	*	-	
BRITISH ISLANDS.	Sumburgh Head	30.31	40	SW	3	o	30.35	+04	40	39	+1	Z	0	o	4	o	40	37	*	-	
	Stornoway ...	30.28	40	SW	4	o	30.33	+08	36	35	-3	SW	2	c	4	o	41	35	0.0	-	
	Malin Head ...	30.32	33	S	3	b	30.30	-02	35	32	+2	SE	4	c	2	b	36	31	*	-	
	Blacksod Pt. ...	30.26	36	SE	4	bm	30.22	-01	35	32	-2	SE	5	b	4	b, bm	37	34	*	-	
	Valencia ...	30.19	41	ESE	4	om	30.14	-04	39	36	-3	E	1	bc	4	bc, om	43	37	1.0	-	
	Roche's Point ...	30.23	40	SE	5	o	30.17	-08	41	38	+2	SE	4	o	2	o	42	39	*	-	
	Parsonstown ...	30.31	30	E	1	b	30.24	+01	32	31	+3	E	2	o	*	b	35	23	5.7	-	
	Donaghadee ...	30.39	38	SSE	4	c	30.33	-05	39	35	+2	SSE	4	o	3	-	39	36	*	-	
	Liverpool Obsy.	30.39	32	ESE	1	o	30.29	-15	34	33	+9	ESE	1	m	?	-	35	25	*	-	
GERMANY, &c.	Holyhead ...	30.37	32	E	1	b	30.28	-10	37	35	+9	E	1	o	1	b	37	28	*	-	
	Pembroke (St. Ann's)	30.28	32	E	5	b	30.19	-11	36	33	+4	ENE	4	ogm	3	-	36	28	0.5	-	
	Scilly (St. Mary's)...	30.14	41	ENE	5	o	30.09	-09	40	38	-3	E	6	otsp	3	o	45	37	0.3	-	
	Jersey (St. Aubins)...	30.22	36	E	4	ogm	30.08	-18	35	34	+7	ENE	3	om	3	bc, ogm	36	28	4.8	-	
	Portland Bill ...	30.25	33	ENE	4	c	30.16	-14	35	32	+6	ENE	5	o	3	c	35	27	*	-	
	Dungeness ...	30.21	38	ENE	6	o	30.11	-19	36	35	+3	ENE	6	o	3	bc, o	38	31	*	-	
	Wick ...	30.31	28	SW	2	o	30.36	+04	28	28	-7	WNW	1	bc	2	-	40	27	*	-	
	Nairn ...	30.36	27	Z	0	bc	30.36	-01	26	25	0	Z	0	o	0	-	33	22	*	-	
	Aberdeen ...	30.41	32	SW	2	b	30.38	-05	30	28	-1	SW	1	bc	1	b	34	30	4.0	-	
FRANCE.	Leith ...	30.42	28	W	1	b	30.37	-07	29	28	+5	Z	0	f	*	b, f	32	20	*	-	
	North Shields ...	30.42	34	NW	2	o	30.33	-11	38	36	+7	NE	3	o	3	-	38	30	*	-	
	Spurn Head ...	30.35	38	ENE	4	c	30.24	-18	39	37	+1	ENE	4	c	3	-	39	34	*	-	
	Yarmouth ...	30.28	37	ENE	5	og	30.15	-22	36	34	+2	ENE	5	cg	5	c, og	38	33	*	-	
	Loughborough ...	30.37	32	N	1	o	30.27	-17	34	32	+19	NE	2	ogm	*	c, ogm	34	15	*	-	
	Oxford ...	30.33	33	NE	2	o	30.23	-18	33	32	+11	NE	2	o	*	b, o, s	35	22	*	-	
	London (Brixton)	30.30	35	ENE	3	o	30.20	-15	35	32	+6	ENE	5	o	*	cm, o	36	29	0.0	-	
	The Scaw (Skagen)	30.47	27	ENE	1	b	30.37	-17	31	31	+7	NE	1	c	0	-	32	23	*	-	
	Fanö ...	30.45	21	NE	2	o	30.37	-15	24	23	+2	N	2	o	*	-	27	18	*	-	
SPAN. PEN.	Cuxhaven ...	30.39	32	NE	2	o	30.30	-14	25	24	-4	E	2	c	*	-	32	25	*	-	
	The Helder ...	30.30	30	ENE	4	b	30.23	-16	27	26	-2	?	1	c	0	-	30	27	*	-	
	Brussels ...	*	*	*	*	*	30.17	-17	23	21	+4	NE	2	o	*	-	29	18	*	-	
	Berlin ...	30.36	16	NE	2	o	30.28	-11	16	16	+2	E	2	f	*	-	23	14	*	-	
	Frankfurt ...	30.24	18	NE	2	bc	30.21	-05	12	11	+7	NE	2	bc	*	-	23	10	*	0.04	
	Munich ...	30.09	8	E	2	b	30.05	-07	4	4	-7	E	2	o	*	-	16	1	*	0.04	
	C. Gris Nez ...	30.20	32	E	5	bc	30.12	-18	25	25	+7	E	3	o	3	-	32	218	*	-	
	Brest ...	30.09	34	E	4	b	30.04	-16	35	33	+10	NE	4	b	4	-	35	25	*	-	
	Lorient ...	30.10	30	E	5	bc	30.04	-18	29	29	+4	ENE	5	m	2	-	32	25	*	-	
SPAN. PEN.	Rochefort ...	30.01	28	ENE	5	b	29.94	-14	25	25	?	ENE	4	b	*	b	32	21	*	-	
	Biarritz ...	29.97	32	E	2	b	29.88	-16	26	26	+3	S	3	m	2	-	32	23	*	-	
	Paris ...	30.19	25	NNE	3	o	30.10	-16	25	25	+11	NE	3	o	*	-	26	214	*	-	
	Belfort ...	30.13	14	ENE	6	m	30.08	-12	14	13	+1	ENE	5	m	*	-	17	13	*	-	
	Lyons ...	30.16	19	N	3	b	30.04	-17	21	20	+2	N	1	o	*	-	24	18	*	-	
	Nice ...	29.93	39	E	1	+	29.94	+03	40	38	+3	E	1	c	3	-	41	37	*	-	
	Perpignan ...	29.96	31	Z	0	b	29.91	-11	36	33	+13	NE	1	o	*	-	44	23	*	-	
	Corunna ...	29.61	57	ESE	4	o	29.49	-26	56	56	0	ESE	4	o	*	-	59	55	*	0.20	
	Azores (P. Delgada)	29.58	68	WSW	5	o	29.69	+12	57	51	-2	W	4	bc	2	-	66	55	*	0.04	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page.

GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over Northern Europe continues to decrease in intensity, the highest pressures (over the south of Norway) being now very little above 30.4 in. The lowest readings, 29.9 in. and less, are reported over the south-west of France, but the barometer is almost as low, 30.0 in. and less, in the extreme north of Scandinavia. The mercury continues to fall slowly in most places, but gradients are everywhere slight.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is E^{ly} or N.E^{ly} over Germany, the Netherlands, and the greater part of England and France - light or moderate in force generally, but strong at some of the Channel stations. In Ireland the wind draws into S.E. while in Scotland and the northern parts of Scandinavia it is calm or light to moderate from the W^{ly} or S.W^{ly}. Temperature has risen over Western Europe generally - briskly over central England - but has fallen in the north of Scotland and also in Holland and Germany. Frost prevails over central Ireland and the northern parts of Great Britain, the lowest morning readings reported being 26° at Naim and 28° at Wick, but has temporarily disappeared from our midland and southern counties. On the Continent the weather is still severe, the readings of the thermometer being as low as 4° at Munich, 12° at Frankfurt, 14° at Belfort and 16° at Berlin. The weather, though fine in places, is generally cloudy or dull, with local mists or fogs, and sleet showers at Scilly. The sea is moderate or slight generally, but rather rough at Yarmouth. The maximum temperatures registered over our Islands yesterday were below 40° in most places and below 35° at several of our northern and central stations. Over central and southern England the frost last night was only slight; at Naim, however, the thermometer fell to 22°, and at Leith to 20°.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone will probably continue to decrease in intensity, but there are at present no indications of any material change in the general distribution of pressure. Over the south and east of England, however, the isobars indicate the presence of slight local irregularities, so that snow showers are probable in various parts of those districts.

FORECASTS *

For the 24 hours ending at NOON on 9th December, 1902

DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH	{ Calms or light S ^{ly} breezes; fair generally, but some mist or fog.	
1	{ SCOTLAND EAST		
2	{ ENGLAND N.E.	N.E ^{ly} winds, moderate or fresh; cloudy, snow showers in places.	
3	{ ENGLAND EAST	{ E ^{ly} and N.E ^{ly} winds, strong on coast; cloudy, snow showers in places.	
4	{ MIDLAND COUNTIES		
5	{ ENGLAND SOUTH		

DISTRICTS.		FORECASTS.	
6	{ SCOTLAND WEST	Same as Nos. 0 and 1.	
7	{ ENGLAND N.W.	E ^{ly} winds, light; cloudy, misty.	
8	{ ENGLAND S.W.	Same as Nos. 3 to 5.	
9	{ IRELAND NORTH	{ E ^{ly} and S.E ^{ly} winds, moderate; fair generally.	
10	{ IRELAND SOUTH		
WARNINGS		None issued.	

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	c,c	37	34	1.6	-
Newton Reigny (Penrith)	30.39	30	Z 0	0	30.30		29	28		Z 0	0	*	c,b,0	36	25	5.5	-
Bath	30.31	30	NE 1	0	30.20	-17	34	?	+8	E 1	0	*	-	35	25	6.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	31	20	0	0.0	-	Worthing	*	*	*	5.5	*
Birmingham, 9 p.m. ...	33	21	0	1.4	-	Llandudno	*	*	*	5.8	*
Lowestoft, up to 6 p.m. ...	*	*	*	*	*	Rhyl	*	*	*	5.8	*
Hastings	*	*	*	3.7	*	Southport, 9 p.m. ...	32	21.8	0	1.2	-
Eastbourne	*	*	*	0.5	*	Manchester, 9 p.m. ...	35	20	0	0.0	-
Brighton	*	*	*	2.9	*	Darwen, 9 p.m. ...	33	22	om	0.4	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
7 TH DECEMBER									
Madeira (Funchal)	Information not received.			Ins.	Algiers				Ins.
Madrid					Tunis				
Corsica (I. Sanguinaires) ...					Vienna				
Rome					St. Petersburg				
Florence					6 TH DECEMBER.	1 p.m.			Measured 7 a.m.
Trieste					Lugano	Information not received			
Naples					Davos				
Palermo					Lucerne				
Malta					Lausanne				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

8 TH Dec., 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.52	11.45	3.38
Greenwich	7.54	11.52	3.50
Wick	8.50	12.4	3.18
Valencia	8.38	12.33	4.28

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 9th Decembet. 1902
 Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.	YESTERDAY EVENING. (See note on last page.)						THIS MORNING. (See note on last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.		Weather.	Sea (0 to 9.)	Barometer.	Temperature.				Wind.		Weather.	Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)			At 32° Fahr. and M.S.L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)				Max.	Min.		
	Ins.						Ins.	Ins.	°	°										
SCANDINAVIA.	Haparanda ...	30.00	26	N	6	b	30.32	+25	23	23	+2	NW	4	b	*	-	30	14	*	-
	Hernösand ...	30.32	20	Z	0	b	30.49	+14	20	19	+14	Z	0	b	*	-	30	6	*	-
	Stockholm ...	30.38	24	Z	0	o	30.42	+04	19	19	-3	NW	2	b	*	-	25	16	*	-
	Wisby ...	30.31	33	Z	0	o	30.36	+04	31	31	-3	N	2	o	*	-	36	28	*	0.04
	Karlstad ...	30.44	12	NNE	2	b	30.49	+09	20	20	+6	NNE	2	b	*	-	*	*	*	-
	Færder (X'ania Fjord)	30.38	28	NNE	3	bc	30.47	+05	30	29	+6	N	3	b	1	-	?	23	*	-
	Bodö ...	30.29	37	W	4	o	30.48	+50	38	35	-3	W	4	o	2	-	41	36	*	-
	Christiansund ...	30.47	40	WSW	2	+	30.55	+17	38	36	-3	ENE	2	b	3	-	43	37	*	0.20
	Skudesnaes ...	30.43	28	Z	0	b	30.45	+03	33	32	+11	S	1	b	1	-	33	22	*	*
BRITISH ISLANDS.	Sumburgh Head	30.39	39	Z	0	c	30.44	+09	46	45	+6	ENE	1	o	3	c	46	35	*	-
	Stornoway ...	30.32	32	Z	0	bm	30.39	+06	35	34	-1	S	1	b	1	bm	40	27	3.2	-
	Malin Head ...	30.27	36	SE	3	c	30.28	-02	42	40	+7	E	7	c	4	o,c	42	35	*	-
	Blacksod Pt. ...	30.18	38	E	4	cm	30.22	00	40	37	+5	ENE	5	o	3	b,cm	40	35	*	-
	Valencia ...	30.09	39	ENE	2	om	30.10	-04	38	36	-1	ENE	3	cmg	4	o,om	42	38	0.0	-
	Roche's Point ...	30.09	41	SE	4	og	30.06	-11	42	40	+1	ESE	4	o	2	o,og	42	39	*	-
	Parsonstown ...	30.17	35	E	1	o	30.17	-07	35	34	+3	SW	1	o	*	o	36	31	0.0	-
	Donaghadee ...	30.25	40	E	4	o	30.25	-08	42	40	+3	E	4	cg	4	-	42	37	*	-
	Liverpool Obsy.	30.22	36	E	3	om	30.21	-08	35	34	+1	ENE	2	b	?	om	39	34	*	-
	Holyhead ...	30.20	39	E	2	om	30.17	-11	41	39	+4	E	4	c	3	o,om	41	35	*	-
	Pembroke (St. Ann's)	30.12	36	ENE	4	o	30.08	-11	34	32	-2	NE	4	bc	3	-	37	33	0.0	-
	Scilly (St. Mary's)...	30.04	40	NE	5	o	29.93	-16	40	38	0	NE	6	om	3	o	42	37	0.0	-
	Jersey (St. Aubins)...	29.98	34	ESE	4	of	29.94	-14	33	32	-2	E	4	o	3	tsp,of	37	31	0.0	0.01
	Portland Bill ...	30.06	34	ENE	4	c	30.01	-15	35	33	0	ENE	4	o	3	om,c	35	32	*	-
	Dungeness ...	30.05	32	ENE	6	o	29.98	-13	35	34	-1	E	5	o	3	o	36	30	*	-
	Wick ...	30.35	29	NW	2	bc	30.42	+06	42	40	+14	E	2	c	1	-	42	24	*	-
	Nairn ...	30.37	21	Z	0	b	30.42	+06	31	30	+5	Z	0	o	1	-	34	18	*	-
GERMANY, &c.	Aberdeen ...	30.37	33	WNW	2	om	30.39	+01	42	39	+12	NE	3	ep	3	o,om	42	29	0.0	0.05
	Leith ...	30.33	35	Z	0	o	30.33	-04	41	39	+12	ENE	1	bc	*	-	42	29	*	-
	North Shields ...	30.25	41	NE	3	o	30.27	-06	42	40	+4	NE	3	c	3	o	42	37	*	-
	Spurn Head ...	30.19	38	ENE	5	c	30.16	-08	41	40	+2	E	5	c	4	-	42	38	*	0.01
	Yarmouth ...	30.09	36	ENE	5	og	30.10	-05	37	34	+1	ENE	5	c	5	o,og	38	33	*	-
	Loughborough ...	30.18	35	NE	3	o	30.15	-12	36	35	+2	NE	3	ogmd	*	ogmd,p	37	34	*	0.01
	Oxford ...	30.12	34	NE	4	o	30.10	-13	35	32	+2	NE	3	osp	*	o,sp	35	31	*	-
	London (Brixton)	30.09	34	NE	3	omr,b	30.04	-16	35	33	0	ENE	3	om	*	om,ots	36	33	0.0	0.04
FRANCE.	The Scaw (Skagen)	30.34	30	NE	3	c	30.41	+04	29	28	-2	E	3	c	1	-	32	28	*	-
	Fanö ...	30.32	30	NNE	2	c	30.32	-05	32	30	+8	ENE	4	o	*	-	32	24	*	-
	Cuxhaven ...	30.23	30	Z	0	o	30.23	-07	31	30	+6	NE	1	S	*	o,f	32	25	*	-
	The Helder ...	30.21	27	E	3	c	30.14	-09	30	29	+3	ENE	4	o	2	-	30	27	*	-
	Brussels ...	*	*	*	*	*	30.05	-12	21	20	-2	ENE	2	o	*	-	24	18	*	-
	Berlin ...	30.23	21	Z	0	f	30.25	-03	20	20	+4	SE	1	f	*	-	21	16	*	-
	Frankfurt ...	30.13	19	NE	2	o	30.10	-11	17	16	+5	NE	2	bc	*	-	19	12	*	-
	Munich ...	30.00	11	Z	0	o	29.99	-06	12	12	+8	E	2	o	*	-	12	4	*	0.04
SPAN. PEN.	C. Gris Nez ...	30.05	24	ENE	4	o	29.96	-16	24	23	-1	E	4	bc	4	-	27	?	*	-
	Brest ...	29.93	35	NE	4	c	29.88	-16	32	32	-3	NE	3	b	3	-	41	32	*	-
	Lorient ...	29.91	30	E	5	o	29.84	-20	27	27	-2	NE	5	b	2	-	39	25	*	-
	Rochefort ...	29.85	29	N	5	b	29.76	-18	26	25	+1	NE	5	o	*	b	36	23	*	-
	Biarritz ...	29.78	36	E	1	m	29.68	-20	39	39	+13	E	4	m	1	-	41	26	*	0.08
	Paris ...	30.01	23	NE	3	b	29.94	-16	22	20	-3	NE	4	o	*	-	28	18	*	-
	Belfort ...	29.99	17	ENE	5	m	30.00	-08	14	14	0	ENE	6	f	*	-	19	12	*	-
	Lyons ...	29.97	25	NNE	1	o	29.98	-06	23	22	+2	N	1	c	*	-	27	21	*	-
SPAN. PEN.	Nice ...	29.88	41	ENE	3	bc	29.77	-17	44	36	+4	ENE	2	c	4	-	48	37	*	-
	Perpignan ...	29.82	39	NW	1	o	29.71	-20	41	41	+5	Z	0	o	*	-	44	36	*	12.01
SPAN. PEN.	Corunna ...																			
	Lisbon ...	29.61	55	NNE	3	o	29.52	+03	57	55	+1	SW	4	+	*	-	57	54	*	0.12
SPAN. PEN.	Azores (P. Delgada)																			
	" (Horta)	30.09	55	NW	4	bc	30.23	+54	56	49	-1	NW	5	b	3	-	64	54	*	0.04

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR *Tuesday, 9th December, 1902.*

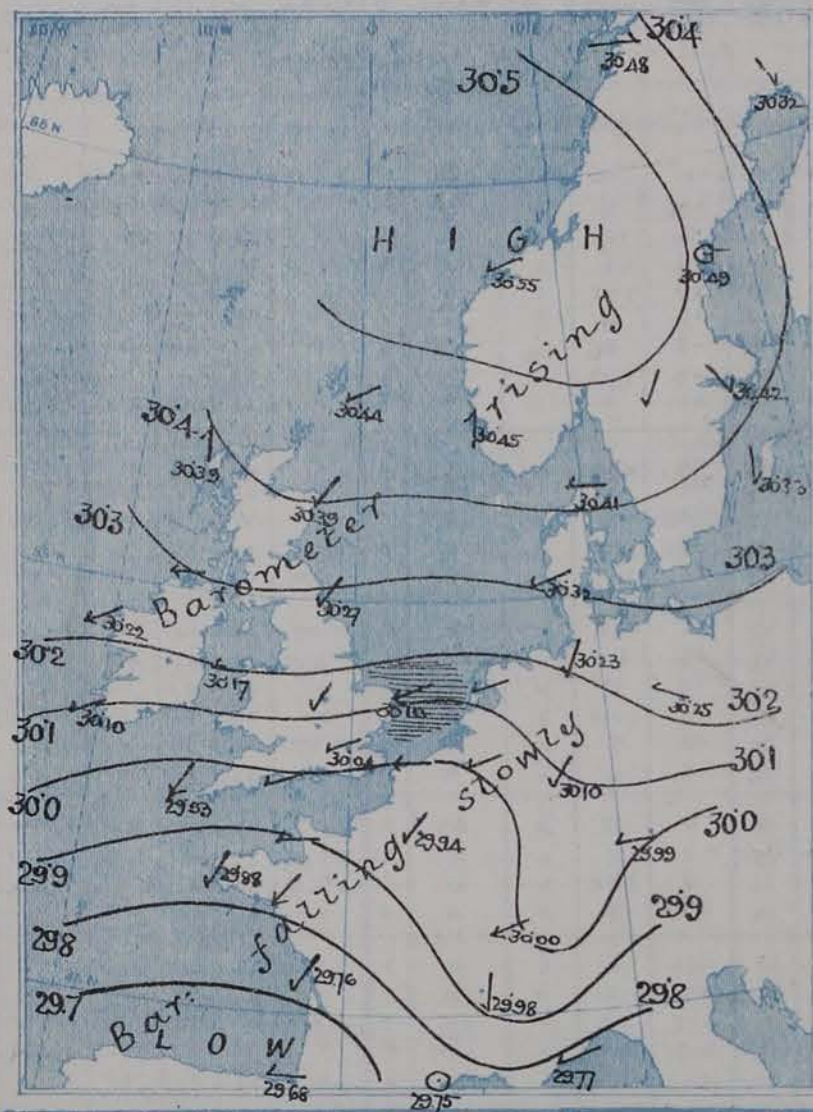
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

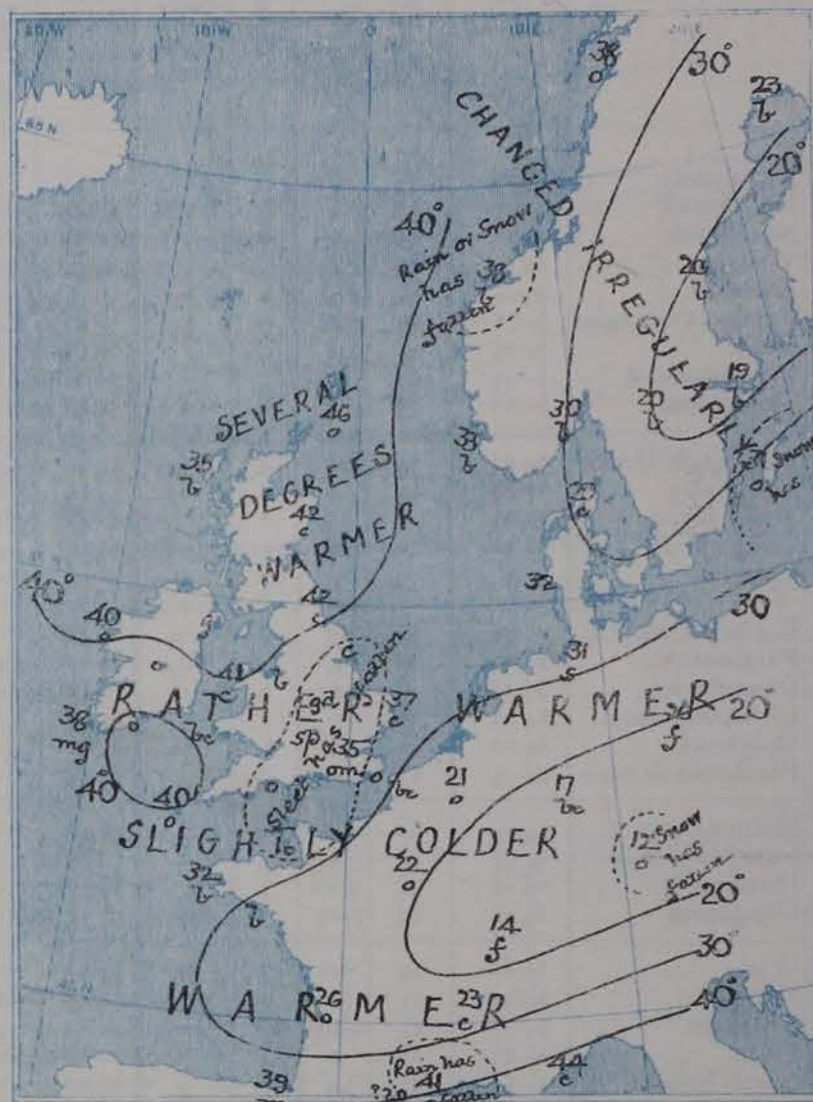


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average N° of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period
DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over Northern Europe is again increasing in intensity, and the barometer is rising over all the more northern parts of our area, the highest readings, 30.3 in. and upwards, being reported over the western and central parts of Scandinavia. In the south of our Islands the mercury is almost stationary, but over France and the Spanish Peninsula it is falling slightly, the lowest readings, 29.6 in. and less, being found over Portugal. Gradients are slight but rather irregular.

WIND

TEMPERATURE

WEATHER

AND

SEA

E^{ly} or N.E^{ly} winds are now prevalent over the whole of Western Europe, and although light or moderate in force generally, they blow freshly or strongly on several parts of the English and French coasts. In the north of Scandinavia the wind is W^{ly} or N.W^{ly}, while in the south of Sweden it is N^{ly}. Temperature has fallen a little in the north of France, as well as at some of the Scandinavian stations, but has risen elsewhere - briskly in the north and east of Scotland. The readings in our Islands are now all above the freezing point, and on many parts of our north-west, north and north-east coasts they are slightly above 40°. The highest reading in the United Kingdom or in fact in any part of Western Europe is 46° at Dumburgh Head, the lowest in these islands being 33° at Jersey. Hard frost still prevails on the Continent, the lowest morning readings reported being 12° at Munich, 14° at Belfort and 17° at Frankfurt. The weather is cloudy or dull at all but the Scandinavian stations, with snow or sleet in some parts of central England; snow is also reported at Cuxhaven. The sea is moderate or slight generally, but rather rough at Yarmouth.

The maximum temperatures registered yesterday were below 40° in most parts of our Islands; at Aberdeen the reading up to 6 p.m. was no higher than 33°. An absence of bright sunshine was reported at nearly all our stations. A little snow or sleet fell in many parts of Great Britain.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Scandinavia appears to be extending southwards again. E^{ly} or N.E^{ly} winds are likely to continue, with cold, dry weather at all but our eastern and southern stations, where snow showers are still probable.

FORECASTS *

For the 24 hours ending at NOON on 10th December, 1902

DISTRICTS

FORECASTS.

0 { SCOTLAND
NORTH

E^{ly} to S.E^{ly} winds, light; fair generally, rather colder.

1 { SCOTLAND
EAST

2 { ENGLAND
N.E.

3 { ENGLAND
EAST

E^{ly} and N.E^{ly} winds, moderate or fresh; cloudy, snow showers in places.

4 { MIDLAND
COUNTIES

Temperature remaining low.

5 { ENGLAND
SOUTH

DISTRICTS.

FORECASTS.

6 { SCOTLAND
WEST

Same as Nos. 0 and 1.

7 { ENGLAND
N.W.

E^{ly} and N.E^{ly} winds, moderate or fresh; fair generally.

8 { ENGLAND
S.W.

N.E^{ly} winds, fresh or strong; cloudy, snow showers in places.



9 { IRELAND
NORTH

10 { IRELAND
SOUTH

Same as No. 7.

WARNINGS

None issued.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.			
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer. Ins. Change.	Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature. Max. Min.	Sun- shine Hrs.	Rainfall Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	bc	*	o	36 33	00	0.06
Newton Reigny (Penrith) ...	30.22	35	SE 1	c	30.22 -0.8	35	34	+6	NNW 2	c	*	o, c	38 28	0.3	-
Bath	30.10	35	E 2	o	30.06 -1.4	35	33	+1	NE 3	o	*	-	36 32	0.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	36	31	o	0.0	-	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	35	32	o	0.0	-	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	36	34	o	0.0	-	Rhyl	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	38	32	c	0.0	-
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	39	34	o	0.0	-
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	36	31	om	0.0	-
						Plymouth, 9 p.m. ...	36	33	o	0.0	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
8 TH DECEMBER.									
Madeira (Funchal)	64	52	c , c	Ins. 0.24	Algiers	18	14	c , o	—
Madrid	50	39	o , o	0.24	Tunis				
Corsica (I. Sanguinaires) ...	50	32	m , m	—	Vienna				
Rome	49	45	t , o	0.08	St. Petersburg... ..				
Florence	44	38	o , o	—	7 TH DECEMBER				
Trieste	32	28	b , b	—	Lugano	1 p.m.	Information not received		
Naples	49	30	o , c	0.08	Davos				
Palermo	61	42	b , o	—	Lucerne				
Malta... ..	58	51	? , o	—	Lausanne				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

9 TH Dec., 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.53	11.45	3.38
Greenwich	7.55	11.52	3.50
Wick	8.52	12.4	3.17
Valencia	8.39	12.33	4.28

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ „ „ £1 10 0 „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

WEDNESDAY 10TH DECEMBER

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine Hours	Rain Ins.		
				Dirac.	Force (0 to 12.)		At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Max.	Min.				
																				At 82° and M. S. L.	Dry Bulb.
Ins.		Ins.	Ins.	°	°	°	Ins.	Ins.	°	°	°	Ins.	Ins.	°	°	°	°	°	°		
SCANDINAVIA.	Haparanda ...	30.39	19	N	2	o	30.09	-23	34	34	+11	NW	4	bc	*	-	34	18	*	-	
	Hernösand ...	30.62	13	Z	0	b	30.51	+02	21	20	+1	Z	0	b	*	-	30	13	*	-	
	Stockholm ...	30.62	22	Z	0	b	30.66	+24	21	21	+2	Z	0	f	*	-	28	14	*	-	
	Wisby ...	30.55	32	N	2	b	30.61	+34	26	25	-5	E	2	b	*	-	36	26	*	-	
	Karlstad ...	30.67	20	NW	2	b	30.72	+23	12	11	-8	NE	2	b	*	-	*	*	*	-	
	Færder (X'ania Fjord)	30.66	31	NNE	2	b	30.73	+26	26	26	-4	Z	0	m	0	-	32	26	*	-	
	Bodö ...	30.53	41	WSW	6	f	30.36	-12	42	40	+4	SW	6	o	4	-	42	37	*	-	
	Christiansund ...	30.61	35	E	2	b	30.63	+08	34	33	-4	WSW	2	b	4	-	38	30	*	-	
Skudesnaes ...	30.60	30	Z	0	b	30.69	+24	31	30	-2	E	2	o	2	-	39	27	*	8		
BRITISH ISLANDS.	Sumburgh Head ...	30.52	42	E	2	o	30.60	+16	42	39	-4	SE	3	o	4	-	46	37	*	-	
	Stornoway ...	30.43	38	ESE	3	b	30.48	+09	39	37	+4	E	1	b	1	-	43	27	3.6	-	
	Malin Head ...	30.34	42	E	6	bc	30.39	+11	42	39	0	SE	6	c	3	-	44	42	*	-	
	Blacksod Pt. ...	30.32	40	E	4	b	30.35	+13	41	39	+1	ENE	4	c	3	-	43	38	*	-	
	Valencia ...	30.20	41	NE	1	cm	30.25	+15	40	38	+2	E	1	cm	3	-	41	36	0.0	-	
	Roche's Point ...	30.15	43	NE	4	o	30.19	+13	42	40	0	NE	3	c	1	-	43	40	*	-	
	Parsonstown ...	30.24	35	NE	1	c	30.26	+09	39	37	+4	NE	3	c	*	-	42	32	0.5	-	
	Donaghadee ...	30.30	43	E	5	bc	30.35	+10	42	40	0	E	5	c	4	-	44	39	*	-	
Liverpool Obsy. ...	30.23	39	ENE	4	cm	30.31	+10	37	35	+2	E	3	bc	?	-	41	35	*	-		
Holyhead ...	30.23	41	E	4	cm	30.29	+12	40	38	-1	ENE	5	cm	4	-	42	38	*	-		
Pembroke (St. Ann's) ...	30.09	38	NE	4	b	30.12	+04	38	35	+4	NE	4	ogm	4	-	42	33	3.9	-		
GERMANY, &c.	Scilly (St. Mary's) ...	30.00	38	NE	4	o	30.02	+09	39	36	-1	NE	4	o	3	-	41	36	0.0	-	
	Jersey (St. Aubins) ...	29.92	37	NE	6	cm	29.92	-02	36	35	+3	NE	4	o	3	-	38	33	1.5	0.14	
	Portland Bill ...	30.02	36	ENE	5	cm	30.02	+01	37	34	+2	ENE	6	c	4	-	37	33	*	-	
	Dungeness ...	29.99	36	E	7	o	30.10	+12	34	33	-1	E	6	bc	4	-	36	33	*	-	
	Wick ...	30.47	42	SE	3	c	30.54	+12	43	41	+1	SE	4	cu	3	-	43	34	*	0.01	
	Nairn ...	30.47	29	Z	0	b	30.53	+11	36	35	+5	E	1	c	1	-	36	26	*	-	
	Aberdeen ...	30.45	41	E	4	og	30.54	+15	40	38	-2	ESE	3	op	4	-	43	39	2.2	0.04	
	Leith ...	30.38	43	ENE	2	o	30.46	+13	40	39	-1	ENE	2	bc	4	-	44	38	*	0.04	
North Shields ...	30.30	42	NE	3	c	30.44	+17	41	40	-1	ENE	3	f	4	-	44	39	*	0.11		
FRANCE.	Spurn Head ...	30.22	40	ENE	4	c	30.30	+14	39	38	-2	ENE	6	c	5	-	41	37	*	0.07	
	Yarmouth ...	30.10	39	ENE	6	og	30.21	+11	37	35	0	ENE	7	bc	6	-	39	34	*	-	
	Loughborough ...	30.19	37	NNE	3	o	30.27	+12	34	33	-2	NE	3	cm	*	-	37	34	*	0.03	
	Oxford ...	30.14	35	NE	3	o	30.18	+08	35	33	0	NE	2	o	*	-	36	34	*	-	
	London (Brixton) ...	30.07	37	ENE	3	o	30.13	+09	37	35	+2	E	5	cm	*	-	37	34	0.0	-	
	The Scaw (Skagen) ...	30.60	30	E	3	b	30.69	+28	31	30	+2	ESE	1	o	0	-	32	28	*	-	
	Fanö ...	30.51	32	ENE	4	o	30.61	+29	32	28	0	ENE	2	o	*	-	34	28	*	-	
	Cuxhaven ...	30.36	32	E	3	b	30.52	+29	31	30	0	E	3	c	*	-	34	30	*	-	
SPAN. PEN.	The Helder ...	30.21	36	E	5	bc	30.34	+20	26	25	-4	E	5	c	3	-	32	26	*	-	
	Brussels ...	*	*	*	*	*	30.15	+10	25	23	+6	ENE	5	b	*	-	30	21	*	-	
	Berlin ...	30.42	20	SE	3	f	30.52	+27	25	24	+5	SE	2	o	*	-	25	18	*	-	
	Frankfurt ...	30.18	21	NE	2	b	30.27	+17	20	19	+3	NNE	2	b	*	-	27	17	*	-	
	Munich ...	30.07	21	E	6	o	30.17	+18	21	21	+9	SE	4	o	*	-	23	12	*	-	
	C. Gris Nez ...	30.01	28	ENE	5	bc	30.06	+10	23	22	-1	ENE	5	c	5	-	28	23	*	-	
	Brest ...	29.89	38	ENE	4	o	29.91	+03	40	39	+8	E	3	o	3	-	40	30	*	-	
	Lorient ...	29.80	36	NE	5	b	29.82	-02	39	38	+12	NE	4	o	2	-	39	27	*	-	
Rochefort ...	29.75	33	ENE	3	o	29.81	+05	36	35	+10	E	3	o	*	-	36	23	*	-		
Biarritz ...	29.69	41	E	3	f	29.79	+11	40	40	+1	E	2	m	3	-	43	39	*	-		
SPAN. PEN.	Paris ...	29.95	26	NE	3	b	30.01	+07	22	22	0	NE	3	c	*	-	30	21	*	-	
	Belfort ...	30.00	16	ENE	7	m	30.12	+12	17	16	+3	ENE	5	m	*	-	18	12	*	-	
	Lyons ...	29.93	30	N	1	o	30.08	+10	27	27	+4	N	1	o	*	-	31	27	*	-	
	Nice ...	29.80	50	ENE	3	c	29.96	+19	48	41	+4	Z	0	c	4	-	50	44	*	-	
	Perpignan ...	29.69	52	SE	4	f	29.78	+07	53	52	+12	SE	4	f	*	-	54	41	*	1.26	
	Corunna ...																				
	Lisbon ...																				
	Azores (P. Delgada) ...																				
" (Horta) ...	30.39	55	N	3	c	30.34	+11	51	49	-5	W	1	b	2	-	59	50	*	-		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

ERRATUM. In yesterday's report the amount of rainfall at Perpignan should have been 0.20 inch, not 2.01 inches.

WEATHER CHARTS

FOR WEDNESDAY, 10th DEC^r 'BER, 1902.

I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 →

Force 5 to 7 →

Calm ☉

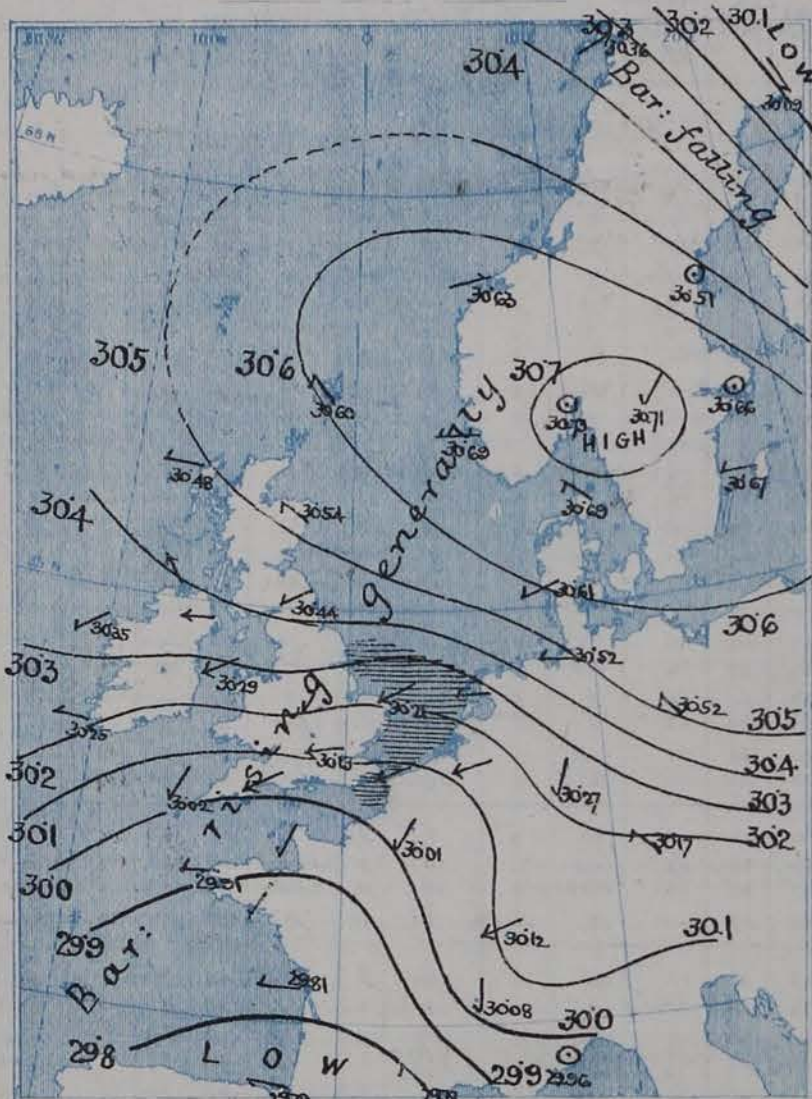
Force 8 to 10 →

Force 1 to 4 →

SEA.—Rough

High

Low



II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

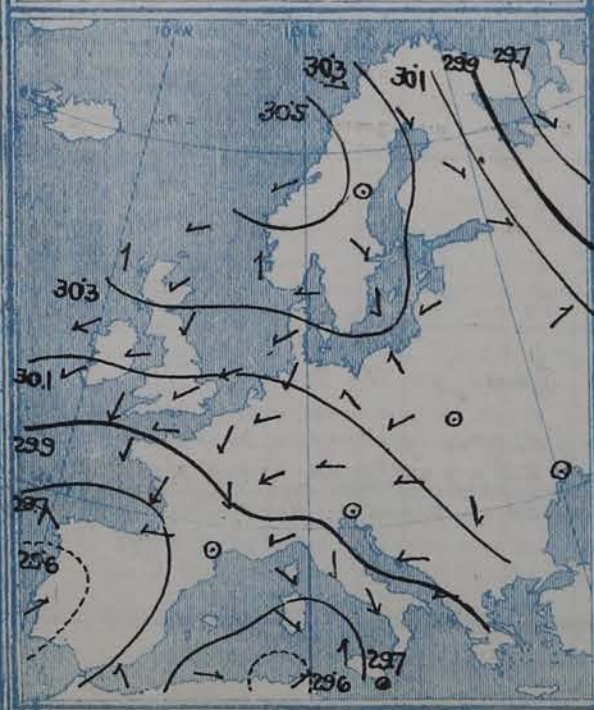
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus -0.6.



III. BAROMETER AND WIND

Yesterday morning



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. (for Stornaway) { Average N° of Hourly daily } 0.8
Total Possible 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period DECEMBER. (1881-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over Scandinavia continues to increase in intensity, and the barometer is still rising in most parts of Western Europe, the highest reading 30.7 in. and upwards, being reported over the north of Scandinavia. The lowest pressures, 29.8 in. and less, are found over the south of France, but new low pressure systems are beginning to pass across the north of Scandinavia, and the barometer in that region is consequently falling. Gradients for E³ winds have become rather steep over the Netherlands and the southern part of the North Sea.

WIND

TEMPERATURE

WEATHER

AND

SEA

E³ or N.E³ winds continue to prevail over Western Europe as a whole, and blow strongly on the south and east coasts of England; on our extreme north and north-west coasts, however, and at some of the German stations the wind has veered to the S.E.⁴. S.W.³ breezes have set in on the west coasts of Norway. Temperature has again risen generally, but has fallen a little on the east coasts of Great Britain, and also in the south of Scandinavia. On many parts of our western and northern coasts the readings this morning are slightly above 40°, but over central and southern England they are considerably below that point, the lowest reported being 34° at Loughborough and Dungeness. Sharp frost still prevails on the Continent, the thermometer being below 25° in many parts of Sweden, Germany and Central France, and as low as 17° at Belfort and 20° at Frankfurt. The weather is fine at several of the Scandinavian stations, but is cloudy or dull in most other parts of our area; showers are falling on the north-east coasts of Great Britain, and steady rain at Perpignan. The sea is rough off the east of England, but moderate or slight elsewhere. The maximum temperatures registered yesterday were above 40° at many of our western and northern stations, but very little above 35° over central and southern England. The amount of bright sunshine was generally small, at many of the English stations there was none. A little rain fell in several parts of Great Britain and a considerable quantity (1.3 in.) at Perpignan.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather. The anticyclone will probably continue to spread slowly southwards, without materially changing its position. E³ winds are still probable over Western Europe generally and a gradual decrease in temperature is anticipated over the United Kingdom.

FORECASTS *

For the 24 hours ending at NOON on 11th December, 1902

DISTRICTS

FORECASTS.

0	{ SCOTLAND NORTH	E ³ and S.E ³ winds, freshening; cloudy, local showers.
1	{ SCOTLAND EAST	
2	{ ENGLAND N.E.	E ³ and N.E ³ winds, fresh or strong; cloudy, some snow or sleet showers.
3	{ ENGLAND EAST	Same as No. 5.
4	{ MIDLAND COUNTIES	Same as No. 2.
5	{ ENGLAND SOUTH	E ³ and N.E ³ winds, strong to a gale on coast; fair at first, snow or sleet showers later.

DISTRICTS.

FORECASTS.

6	{ SCOTLAND WEST	E ³ and S.E ³ winds, fresh or strong; fair generally.
7	{ ENGLAND N.W.	E ³ and N.E ³ winds, moderate or fresh; fair generally.
8	{ ENGLAND S.W.	N.E ³ winds, freshening; cloudy, slight showers locally.
9	{ IRELAND NORTH	Same as No. 6.
10	{ IRELAND SOUTH	Same as No. 7.

WARNINGS

At 7.25 pm. yesterday to district 3 and parts of 2 and 5, 'Hoist North Cone'.

Note.—The South Cone, point downwards (⌋), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (⌋), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.									PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.	
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °			
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	b	*	b, 0	36	36	0.0	-	
Newton Reigny (Penrith)	30.27	37	NE 3	b c	30.35	+13	36	35	+1	E 1	c	*	og, c	39	34	0.0	-	
Bath	30.08	36	E 4	o	30.12	+0.6	35	34	0	NE 5	o	*	-	37	35	0.0	-	

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	40	33	b, c, o	1.5	-	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	36	33	o	0.0	0.03	Llandudno	*	*	*	1.5	*
Lowestoft, up to 6 p.m. ...	38	35	c	0.0	-	Rhyl	*	*	*	2.8	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	41	32	o	3.3	-
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	41	36	b, c, o	1.5	-
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	38	32	om	0.4	-
						Plymouth, 9 p.m. ...	38	34	o	0.0	-

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 9 TH DECEMBER	TEMPERATURE, F.		WEATHER.	RAIN. Ins.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN. Ins.
	Max. °	Min. °				Max. °	Min. °		
Madeira (Funchal)		NOT	RECEIVED.	Ins.	Algiers	68	55	o, o	Ins.
Madrid		NOT	RECEIVED.		Tunis	59	46	c, o	-
Corsica (I. Sanguinaires) ...	48	34	m, o	-	Vienna	25	19	o, o	-
Rome	52	44	f, o	0.04	St. Petersburg	?	16	o, o	-
Florence	47	37	b, o	-	8 TH DECEMBER		1 p.m.	1 p.m.	Measured 7 a.m.
Trieste	41	31	b, b	-	Lugano	36	-	s	0.04
Naples	51	45	o, o	-	Davos	23	-	b	-
Palermo	61	48	o, o	?	Lucerne	21	-	o	0.04
Malta	64	54	?, m	-	Lausanne	27	-	o	0.12

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

10 TH DEC. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	h. m. 7.54	h. m. 11.46	h. m. 3.37
Greenwich	7.56	11.53	3.50
Wick	8.53	12.5	3.17
Valencia	8.40	12.34	4.28

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

THURSDAY 11TH DECEMBER.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall Ins.		
				Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.				
																				At 32° M.S.L.	Dry Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)
		Inc.					Ins.	Ins.	°	°											
SCANDINAVIA.	Haparanda ...	30.07	36	NW	4	o	30.03	-06	38	35	+4	E	4	c	*	-	39	23	*	-	
	Hernösand ...	30.45	37	NW	4	b	30.41	-10	36	33	+15	N	2	b	*	-	37	14	*	-	
	Stockholm ...	30.62	22	W	2	b	30.59	-07	19	19	-2	W	2	b	*	-	27	14	*	-	
	Wisby ...	30.70	22	Z	0	b	30.60	-07	31	30	+5	N	2	o	*	-	39	21	*	-	
	Karlstad ...	30.73	13	Z	0	b	30.69	-03	8	8	-4	N	2	b	*	-	*	*	*	-	
	Færder (X'iania Fjord) ...	30.74	?	NW	2	f	30.67	-06	24	24	-2	NNW	1	m	1	-	27	21	*	-	
	Bodö ...	30.32	42	W	4	o	30.25	-11	42	40	0	W	6	t	3	-	43	39	*	-	
	Christiansund ...	30.60	38	W	1	b	30.56	-07	39	37	+5	Z	0	o	4	-	39	34	*	-	
Skudesnaes ...	30.70	31	Z	0	b	30.62	-07	32	30	+1	SSE	4	b	2	c, b	36	31	*	*		
BRITISH ISLANDS.	Sumburgh Head ...	30.59	41	SE	3	o	30.42	-18	39	37	-3	SE	3	o	3	c, o	42	37	*	-	
	Stornoway ...	30.47	37	Z	0	o	30.26	-22	27	27	-12	Z	0	b	1	om, o	43	25	1.1	-	
	Malin Head ...	30.36	43	ESE	6	cm	30.21	-18	41	40	-1	ESE	2	o	2	o, cm	43	40	*	-	
	Blacksod Pt. ...	30.31	41	ENE	4	bc	30.15	-20	40	38	-1	E	3	c	3	b, bc	43	40	*	-	
	Valencia ...	30.17	41	NE	4	bc	30.09	-16	38	36	-2	E	1	bcm	3	bc	44	37	5.0	-	
	Roche's Point ...	30.12	43	ENE	4	o	30.08	-11	42	41	0	ENE	3	op	1	c, g, o	44	39	*	0.04	
	Parsonstown ...	30.21	39	NE	1	c	30.15	-11	38	37	-1	E	1	o	*	c	45	37	3.4	-	
	Donaghadee ...	30.33	43	E	5	c	30.23	-12	43	40	+1	S	4	o	4	-	43	40	*	-	
	Liverpool Obsy. ...	30.23	39	E	6	om	30.24	-07	36	34	-1	ESE	3	c	2	om	40	35	*	-	
	Holyhead ...	30.23	42	ENE	6	om	30.17	-12	37	36	-3	ENE	4	c	3	o, om	42	35	*	-	
Pembroke (St. Ann's) ...	30.08	38	NE	5	o	30.11	-01	37	35	-1	ENE	5	og	4	o, p	40	35	0.0	0.01		
GERMANY, &c.	Scilly (St. Mary's) ...	29.95	40	NE	5	t	29.97	-05	40	39	+1	ENE	5	m	5	o, t	41	36	0.0	0.14	
	Jersey (St. Aubins) ...	29.98	35	E	4	ots	30.06	+14	38	36	+2	ENE	3	em	3	o, ots, g	38	35	0.0	0.17	
	Portland Bill ...	30.05	36	E	6	om	30.08	+06	38	36	+1	E	6	bcm	5	o, om	39	34	*	0.01	
	Dungeness ...	30.15	35	ESE	4	c	30.16	+06	34	33	0	E	3	bc	2	bc, c	37	31	*	-	
	Wick ...	30.52	41	SE	4	o	30.34	-20	41	39	-2	SE	4	o	3	-	44	39	*	0.01	
	Nairn ...	30.51	32	E	1	bc	30.35	-18	22	21	-14	Z	0	b	0	-	38	19	*	-	
	Aberdeen ...	30.53	40	E	3	c	30.39	-15	40	37	0	SE	3	og	4	c	41	39	0.0	0.01	
	Leith ...	30.44	40	E	3	t	30.33	-13	41	39	+1	E	2	o	*	-	44	38	*	0.01	
North Shields ...	30.39	42	ENE	3	o	30.30	-14	42	40	+1	E	3	o	4	d, o	43	39	*	0.02		
FRANCE.	Spurn Head ...	30.27	38	ENE	7	c	30.26	-04	37	36	-2	ESE	3	c	4	-	41	36	*	-	
	Yarmouth ...	30.20	37	E	7	c	30.22	+01	35	34	-2	E	4	cg	5	c, cg	39	34	*	-	
	Loughborough ...	30.24	36	ENE	4	o	30.26	-01	34	32	0	ENE	3	ogm	*	c, ogm	38	34	*	-	
	Oxford ...	30.19	35	NE	3	o	30.23	+05	33	32	-2	ENE	1	o	*	-	37	33	*	-	
	London (Brixton) ...	30.16	35	E	4	o	30.20	+07	34	32	-3	E	2	og	*	om	39	33	0.0	-	
	The Scaw (Skagen) ...	30.73	30	SE	1	o	30.67	-02	28	28	-3	SE	1	s	0	-	32	27	*	-	
	Fanö ...	30.55	29	E	4	bc	30.54	-07	24	21	-8	E	6	o	*	-	34	23	*	-	
	Cuxhaven ...	30.54	31	E	4	o	30.48	-04	21	20	-10	SE	5	o	*	-	32	19	*	-	
	The Helder ...	30.32	26	E	6	bc	30.28	-06	23	22	-3	ESE	3	b	1	-	27	23	*	-	
	Brussels ...	*	*	*	*	*	30.23	+08	17	17	-8	SE	1	b	*	-	33	17	*	-	
SPAN. PEN.	Berlin ...	30.60	24	E	3	o	30.59	+07	19	19	-6	ESE	3	o	*	-	27	18	*	-	
	Frankfurt ...	30.36	21	NE	4	b	30.32	+05	18	17	-2	NE	2	b	*	-	28	18	*	-	
	Munich ...	30.24	14	SE	2	b	30.24	+07	11	11	-10	SE	2	b	*	-	25	10	*	-	
	C. Gris Nez ...	30.11	28	S	3	b	30.16	+10	24	24	+1	E	3	m	2	-	32	23	*	-	
	Brest ...	29.92	39	E	1	o	29.97	+06	37	37	-3	ESE	3	t	4	-	41	37	*	0.04	
	Lorient ...	29.96	36	SE	3	o	29.98	+16	29	39	0	E	3	o	4	-	39	34	*	0.16	
	Rochefort ...	29.89	40	N	1	m	29.92	+11	41	40	+5	E	3	c	*	m	41	36	*	-	
	Biarritz ...	29.88	44	Z	0	f	29.88	+09	45	45	+5	SE	1	m	3	-	45	40	*	0.32	
	Paris ...	30.10	34	E	3	o	30.15	+14	23	22	+1	NE	3	b	*	-	35	22	*	-	
	Belfort ...	30.19	19	ENE	5	m	30.18	+06	16	15	-1	ENE	4	m	*	-	25	15	*	-	
SPAN. PEN.	Lyons ...	30.15	28	NNW	1	o	30.19	+11	24	23	-3	NNW	1	bc	*	-	33	23	*	-	
	Nice ...	29.99	54	NE	3	bc	30.17	+21	53	39	+5	ENE	3	bc	4	-	57	43	*	-	
	Perpignan ...	29.90	?	SE	4	o	29.91	+13	52	50	-1	SE	4	t	*	-	56	50	*	1.69	
SPAN. PEN.	Corunna ...																				
	Lisbon ...	29.73	53	N	3	bc	29.82	+19	51	48	+5	NNW	4	b	*	-	54	46	*	0.04	
	Azores (P. Delgada) ...	30.25	55	NNW	2	b	30.12	-18	61	57	+5	SW	5	o	3	-	61	54	*	-	
SPAN. PEN.	" (Horta) ...	30.23	59	S	4	o	30.00	-34	63	60	+12	S	5	o	3	-	?	?	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Thursday, 11th December, 1902.*

I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 →→→

Force 5 to 7 →→→

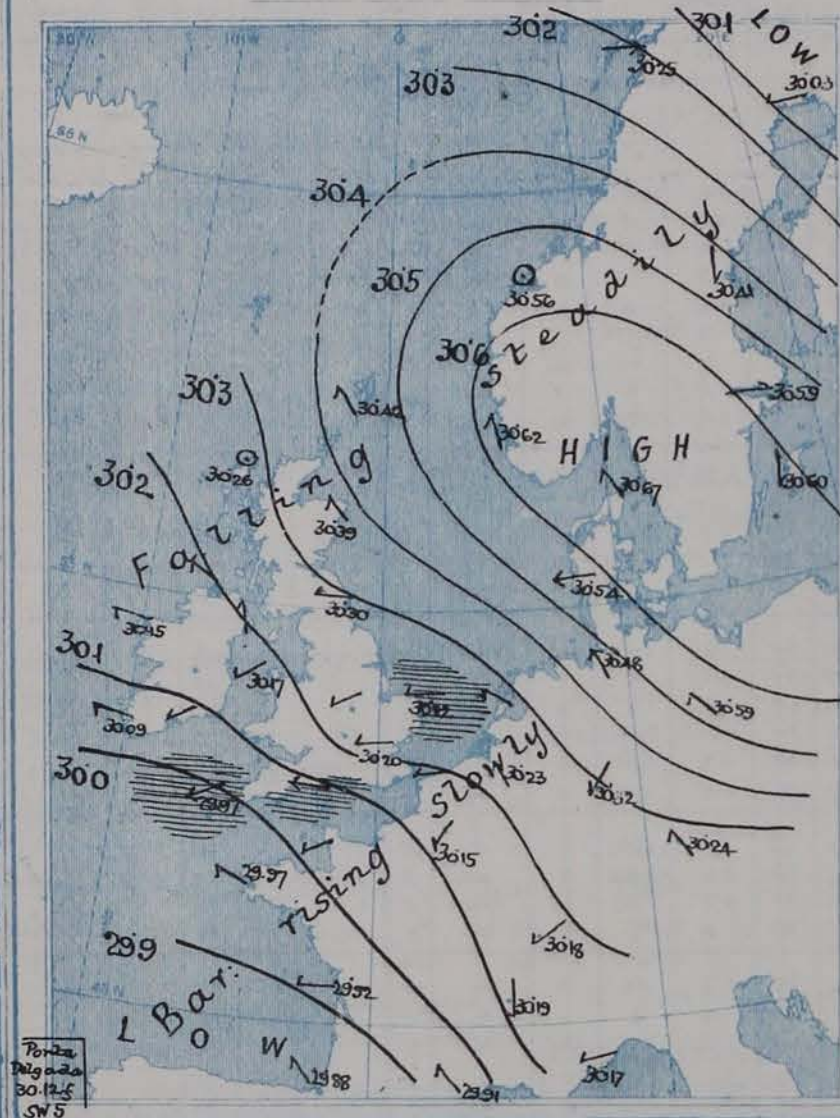
Calm ⊙

Force 8 to 10 →→→

Force 1 to 4 →→→

SEA—Rough

High



II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus -0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period

DECEMBER. (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone over Northern Europe is again giving way, and the barometer is falling over all the more northern parts of our area; in France and the south of England it is at present rising slowly. The highest pressures, 30.6 in. and upwards, are found over Denmark, the Baltic and the south of Scandinavia, while the lowest, 29.9 in. and less, are reported over the south-west of France. The barometer is, however, relatively low, 30.1 in. and less, in Lapland.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind remains E^{ty} over Western Europe as a whole, and blows freshly or strongly at some of the English Channel stations; on our east coasts the moderate gale of yesterday has subsided. In Scotland and the west of Norway calm or light to moderate S.E.^{ty} breezes are reported, while in Sweden the wind is chiefly N^{ty}. Temperature has changed rather irregularly, but has fallen in most places, the change being decided in the western and central parts of Scotland, where frost has reappeared; at Nairn the thermometer this morning stands as low as 22°. Over Central England the readings are only a degree or two above the freezing point, but on our north-eastern and some parts of our south-western coasts they are slightly above 40°. Hard frost still prevails over the more central portions of the Continent, the lowest morning temperatures reported being 8° at Karlsbad, 11° at Munich, 16° at Belfort, and 17° at Brussels. The state of the sky varies greatly in different places, but the weather is, as a rule, cloudy or overcast; passing showers are reported at Roche's Point, heavy rain at Perpignan, and snow at the Scaw. The sea is rather rough at Yarmouth and in the western part of the Channel, but moderate or slight elsewhere. During yesterday the thermometer rose to 40° and upwards at most of our own western and northern stations, and to 45° at Parsonstown; over eastern, central and southern England the maximum readings were slightly below 40°. Slight rain fell yesterday at several of our northern and southern stations and larger quantities in the west and south of France - as much as 1.7 inch at Perpignan.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is now moving southwards, and the wind is likely to veer to the southward of East in many parts of the United Kingdom. Over England pressure is likely to become very uniform for a time, and fog is therefore anticipated in places. Temperature will probably rise somewhat in the south.

FORECASTS*

For the 24 hours ending at NOON on 12th December, 1902

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	S. E ^{ty} winds, moderate or fresh; fair generally.	6 { SCOTLAND WEST	Same as Nos. 0 and 1.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	Same as Nos. 2 and 3.
2 { ENGLAND N.E.	E ^{ty} and S.E ^{ty} winds, moderate; fair generally.	8 { ENGLAND S.W.	E ^{ty} winds, moderate; fair generally.
3 { ENGLAND EAST		9 { IRELAND NORTH	E ^{ty} to S.E ^{ty} winds, moderate or fresh; cloudy, rain in places.
4 { MIDLAND COUNTIES	E ^{ty} winds, falling light; fair generally, but some mist or fog. Cold	10 { IRELAND SOUTH	
5 { ENGLAND SOUTH	to-day, rather milder to-morrow	WARNINGS	At 10 a.m. to-day, to district 3 and parts of 2 and 5, 'Lower Cone'.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	c	*	b, o	38	34	2.0	—
Newton Reigny (Penrith)	30.32	38	ENE 1	c	30.24	-11	37	36	+1	SE 1	c	*	ogm, c	39	36	0.0	—
Bath	30.11	36	E 5	o	30.18	+06	34	33	-1	E 2	o	*	-	37	34	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	40	36	o	0.0	0.01	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	37	34	o	0.0	—	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	40	35	c, b, o, c	0.0	—	Rhyl	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	41	36	o	0.0	—
Eastbourne	*	*	*	0.0	*	Manchester, 9 p.m. ...	40	38	ouq	0.2	—
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	38	34	omg, omu	0.0	—
						Plymouth 9 p.m. ...	38	34	o, f, sp, o	0.0	—

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.		
	Max. °	Min. °				Max. °	Min. °				
10. XII. 02											
Madeira (Funchal)	63	50	a	o	1.30	Algiers	66	57	c	c	Ins.
Madrid	52	45	r	o	0.24	Tunis	64	48	o	c	—
Corsica (I. Sanguinaires) ...	48	32	o	m	—	Vienna	25	21	o	o	—
Rome	53	43	o	b	—	St. Petersburg... ..	30	12	b	b	—
Florence	47	41	o	b	—		1 p.m.		1 p.m.		Measured 7 a.m.
Trieste	43	23	b	s	—	9. XII. 02					
Naples	59	48	o	b	0.16	Lugano	43	—	b		0.04
Palermo	63	49	c	c	—	Davos	30	—	b		—
Malta... ..	67	54	?	c	—	Lucerne	23	—	m		—
						Lausanne	28	—	bc		—

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

11. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	7.56	11.46	3.37
Greenwich	7.57	11.53	3.49
Wick	8.54	12.5	3.16
Valencia	8.41	12.34	4.27

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† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

FRIDAY 12TH DECEMBER.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine.	Rainfall.		
At 82° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Max.	Min.	Hours	Ins.						
Ins.	Ins.	°	°	Ins.	Ins.	°	°	Ins.	Ins.	°	°	Ins.	Ins.	Hours	Ins.						
SCANDINAVIA.	Haparanda ...	30.10	35	SW	6	o	30.11	+0.8	32	31	-6	W	6	bc	*	-	39	32	*	-	
	Hernösand ...	30.43	28	Z	0	b	30.47	+0.6	22	21	-14	Z	0	b	*	-	39	?	*	-	
	Stockholm ...	30.57	18	Z	0	b	30.53	-0.6	19	19	0	W	2	o	*	-	21	16	*	-	
	Wisby ...	30.57	29	Z	0	f	30.54	-0.6	30	29	-1	Z	0	b	*	-	34	23	*	-	
	Karlstad ...	30.62	6	NW	2	b	30.57	-1.2	11	11	+3	NE	2	f	*	-	*	*	*	-	
	Færder (X'ianla Fjord) ...	30.60	26	Z	0	o	30.52	-1.5	26	25	+2	Z	0	o	0	-	27	21	*	-	
	Bodö ...	30.25	42	WSW	6	o	30.28	+0.3	40	39	-2	SW	6	f	4	-	43	39	*	-	
	Christiansund ...	30.49	33	E	2	b	30.39	-1.7	29	27	-10	ENE	2	b	5	-	39	28	*	-	
BRITISH ISLANDS.	Skudesnaes ...	30.49	27	Z	0	b	30.35	-2.7	27	25	-5	Z	0	b	3	b	34	23	*	*	
	Sumburgh Head ...	30.29	40	SE	3	o	30.09	-3.3	40	38	+1	SE	3	o	4	o	40	37	*	-	
	Stornoway ...	30.17	29	Z	0	b	29.93	-3.3	41	39	+14	SE	1	b	1	b	42	25	1.0	0.02	
	Malin Head ...	30.11	40	SE	2	o	29.89	-3.2	39	39	-2	SE	2	om	2	o	41	38	*	-	
	Blacksod Pt. ...	30.04	42	ESE	3	om	29.78	-3.7	45	44	+5	SE	5	om	3	c,om,b	45	39	*	-	
	Valencia ...	29.95	45	E	4	og	29.77	-3.2	45	43	+7	SSE	4	bcp	4	o,og	49	37	0.1	0.04	
	Roche's Point ...	29.98	47	SE	5	o	29.84	-2.4	48	47	+6	S	3	og	2	o,t	49	41	*	0.31	
	Parsonstown ...	30.04	43	SE	3	o	29.86	-2.9	44	42	+6	SE	4	ogu	*	o	44	38	0.0	-	
GERMANY, &c.	Donaghadee ...	30.17	42	SE	3	o	30.00	-2.3	42	40	-1	SE	4	og	3	-	43	40	*	-	
	Liverpool Obsy. ...	30.18	33	SE	1	b	30.04	-2.0	31	30	-5	SE	4	o	?	om,b	38	31	*	-	
	Holyhead ...	30.10	38	E	2	bcm	29.97	-2.0	36	35	-1	E	1	m	1	bc,bcm	41	35	*	-	
	Pembroke (St. Ann's) ...	30.12	39	ESE	5	o	29.94	-1.7	39	39	+2	ESE	6	mgq	5	-	41	36	0.0	-	
	Scilly (St. Mary's) ...	29.96	49	SE	5	f	29.85	-1.2	48	46	+8	SE	5	o	4	f	49	39	0.0	0.27	
	Jersey (St. Aubins) ...	30.06	43	E	4	bcm	30.04	-0.2	38	37	0	ENE	2	bcm	2	b,bcm,w	46	38	4.8	-	
	Portland Bill ...	30.11	34	E	5	f	30.04	-0.4	36	36	-2	E	5	f	4	bc,f	40	32	*	-	
	Dungeness ...	30.13	35	ENE	3	c	30.10	-0.6	36	35	+2	SE	2	bc	1	bc,c	37	28	*	-	
FRANCE.	Wick ...	30.20	40	SE	5	o	30.00	-3.4	41	39	0	SE	6	c	4	-	41	39	*	-	
	Nairn ...	30.21	23	Z	0	m	30.01	-3.4	21	20	-1	Z	0	c	0	-	28	18	*	-	
	Aberdeen ...	30.26	41	SSE	2	o	30.09	-3.0	39	37	-1	SE	2	o	3	o	41	39	0.0	-	
	Leith ...	30.23	40	E	1	o	30.05	-2.8	38	36	-3	ESE	1	o	*	-	42	37	*	-	
	North Shields ...	30.22	41	E	3	o	30.06	-2.4	39	38	-3	S	2	om	3	o	42	37	*	-	
	Spurn Head ...	30.19	37	E	3	o	30.08	-1.8	36	34	-1	S	1	o	3	-	38	34	*	-	
	Yarmouth ...	30.14	37	ENE	5	c	30.08	-1.4	35	33	0	WSW	2	cf	4	c	43	32	*	-	
	Loughborough ...	30.20	35	ENE	3	o	30.11	-1.5	31	30	-3	SE	2	o	*	ogm,gm	36	31	*	-	
SPAN. PEN.	Oxford ...	30.18	34	ENE	2	o	30.11	-1.2	30	29	-3	ENE	2	o	*	o,c,o	35	30	*	-	
	London (Brixton) ...	30.16	35	E	3	om	30.12	-0.8	32	31	-2	Z	0	og	*	c,og	36	32	0.0	-	
	The Scaw (Skagen) ...	30.58	28	ESE	1	m	30.47	-2.0	28	24	0	SE	3	b	1	-	28	27	*	0.04	
	Fanö ...	30.43	24	E	4	b	30.31	-2.3	24	21	0	E	6	b	*	-	28	23	*	-	
	Cuxhaven ...	30.39	22	ESE	5	b	30.25	-2.3	21	19	0	SE	4	b	*	-	23	19	*	-	
	The Helder ...	30.21	22	ESE	1	b	30.12	-1.6	19	19	-4	ESE	1	m	0	-	25	19	*	-	
	Brussels ...	*	*	*	*	*	30.17	-0.6	22	21	+5	SSE	1	b	*	-	33	17	*	-	
	Berlin ...	30.52	16	ESE	4	b	30.40	-1.9	15	14	-4	SE	3	b	*	-	21	12	*	-	
SPAN. PEN.	Frankfurt ...	30.26	22	E	2	b	30.28	-0.4	15	15	-3	E	1	b	*	-	28	14	*	-	
	Munich ...	30.20	14	SE	2	b	30.24	-0.0	5	5	-6	SE	3	b	*	-	23	5	*	-	
	C. Gris Nez ...	30.12	28	ENE	3	b	30.11	-0.5	28	28	+4	SSE	2	b	3	-	34	24	*	-	
	Brest ...	29.96	42	E	2	o	29.90	-0.7	46	45	+9	SE	3	o	3	-	?	?	*	0.04	
	Lorient ...	29.99	46	SE	3	c	?	?	43	41	+4	SE	3	o	4	-	?	?	*	0.16	
	Rochefort ...	29.94	45	ESE	3	bc	29.99	+0.7	45	43	+4	SE	3	o	*	c,bc	52	37	*	-	
	Biarritz ...	29.93	48	SE	1	m	29.99	+1.1	45	45	0	SE	3	b	3	-	48	45	*	-	
	Paris ...	30.13	28	NE	3	b	30.13	-0.2	20	20	-3	NE	1	b	*	-	35	19	*	-	
SPAN. PEN.	Belfort ...	30.21	16	ENE	3	m	30.24	+0.6	16	15	0	ENE	3	m	*	-	26	15	*	-	
	Lyons ...	30.17	30	NNW	1	b	30.26	+0.7	29	?	+5	NW	1	c	*	-	34	24	*	-	
	Nice ...	30.08	52	ENE	2	bc	30.20	+0.3	46	41	-7	NE	3	f	4	-	57	46	*	0.04	
	Perpignan ...	29.97	51	SE	4	f	30.10	+1.9	51	50	-1	S	2	f	*	-	? 52	50	*	1.18	
SPAN. PEN.	Corunna ...																	*	-		
	Lisbon ...																	*	-		
	Azores (P. Delgada) ...																	*	-		
SPAN. PEN.	" (Horta) ...	30.20	54	NNW	2	b	30.28	+2.8	55	50	-8	SW	4	o	2	-	63	52	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR FRIDAY, 12th DECEMBER, 1902.

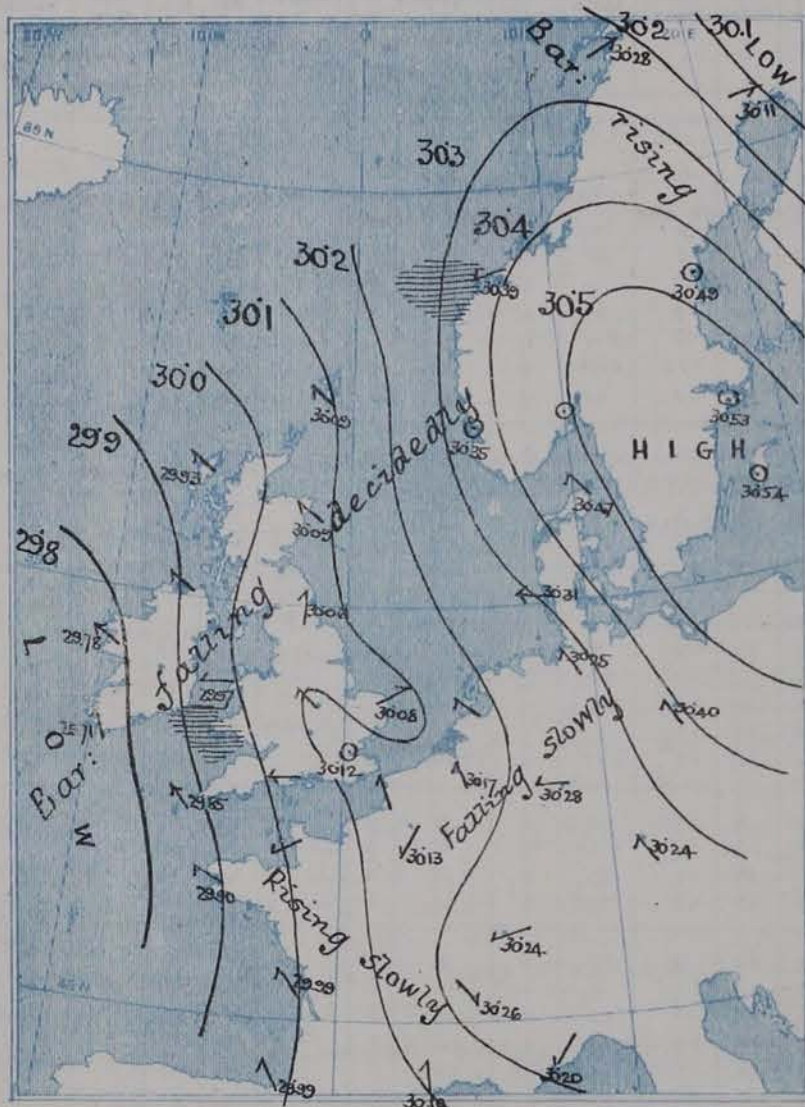
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

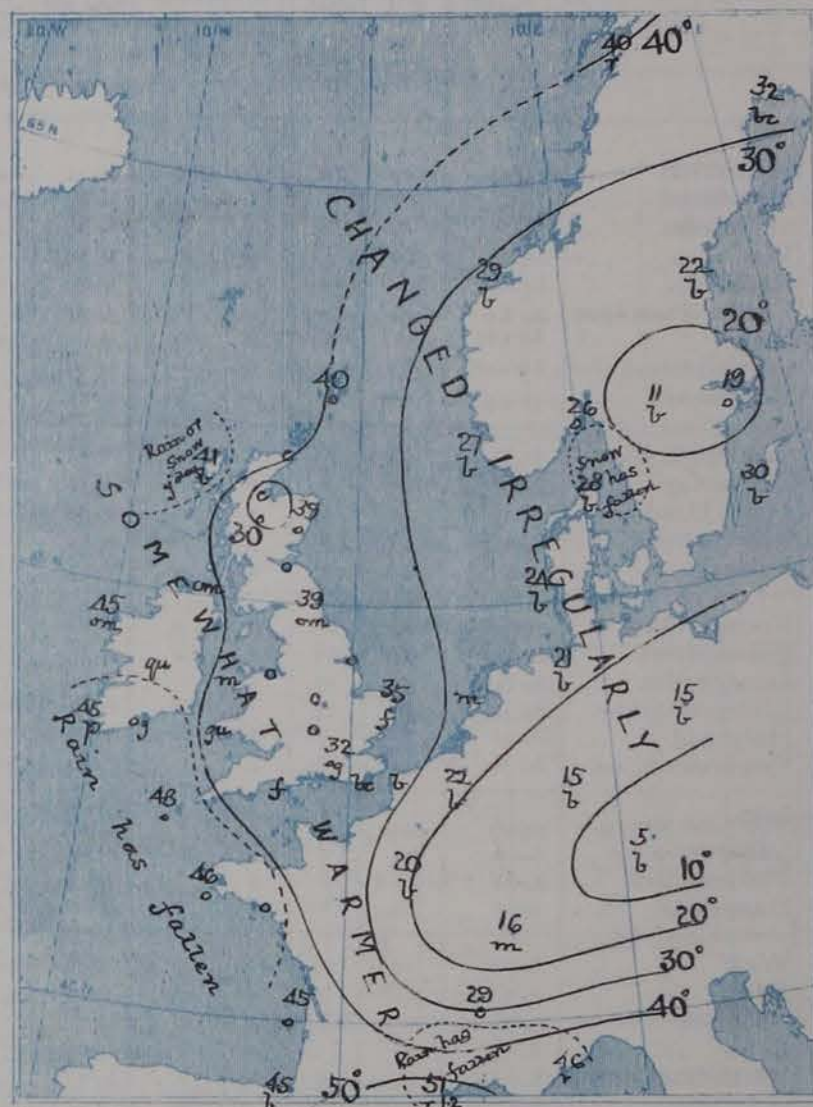


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

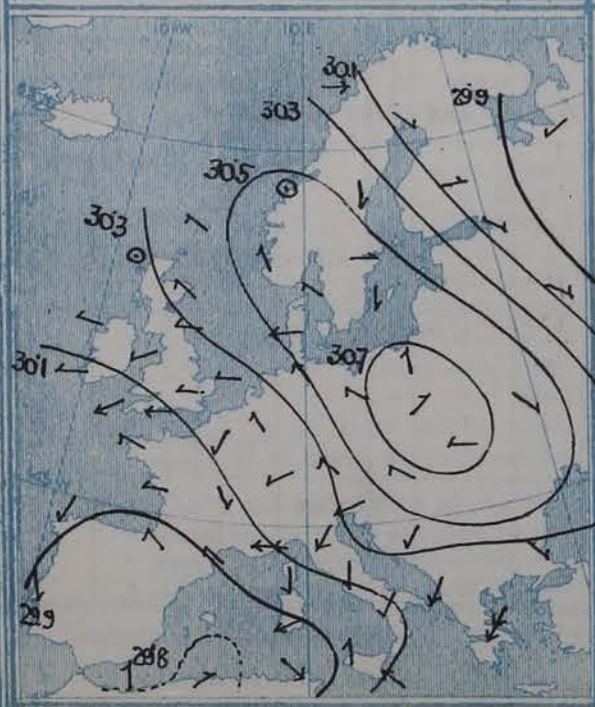
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of } 0.8
(for Stornaway) { Hourly daily }
Total Possible 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period.

DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Since yesterday morning the barometer has fallen over the greater part of our area, but risen over the southern half of France and in the extreme north of Europe. The readings at present range from 30.5 ins. and upwards in an anticyclone over the south of Sweden and the Baltic, to 30.1 ins. over central England and to less than 29.8 ins. on the west coast of Ireland. Gradients are increasing slowly in the west, where the mercury is falling rather decidedly.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind has veered to the S.E. or S. in most parts of the United Kingdom and blows freshly or strongly at some of our south-western stations and also at Wick. In the extreme north of Scandinavia the wind is strong from S.W. or W., and in the south of Denmark strong from the E. Over France and Germany light airs—mainly from some E. point—prevail. Temperature has risen over the west of France, the south-west of England and the greater part of Ireland, changed irregularly, or fallen a little elsewhere. It ranges from 48° at Scilly and Roches Point, 46° at Nice and 40° at Lumburg Head and at Bodø, to about 30° over the inland parts of England, 21° at Rairn, 20° at Paris, 15° at Berlin, 11° at Karlstad, and to 5° at Munich. Rain is falling in the extreme north of Norway, but the weather is fine and bright at most stations on the Continent. In almost all British localities it is cloudy or dull, with fog or mist in a few places, and showers in the south-west of Ireland. The sea is rather rough at Pembroke, moderate to smooth elsewhere.

The maximum temperatures recorded over our Islands yesterday were above 40° in most districts and as high as 49° at some south-western stations. In many parts of England, however, the temperature did not exceed 36° and at Rairn remained as low as 28°. Heavy rain was experienced at Perpignan and slight amounts at a few other French stations, at Pembroke, in the south of Ireland and at Stornoway, and snow at the Pole. Very little bright sunshine was registered except at some southern stations. Slight frost occurred over England, and very sharp frost over central Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It appears probable that the anticyclone will decrease still further in intensity and that cyclonic systems from the Atlantic will encroach gradually eastwards and cause less settled but milder weather over our Islands and their neighbourhood.

FORECASTS *

For the 24 hours ending at NOON on 13th December, 1902

DISTRICTS.

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

S.E.² to S.² winds, increasing in force;
fair to unsettled. Milder inland.
S.E.² and S.² winds, light or moderate; dry,
with some mist or fog to-day, less settled
to-morrow. Temperature rising.

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

Same as Nos. 0 and 1.
S.² and S.E.² fresh or strong winds; mild,
unsettled, some rain.

WARNINGS

None issued.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.									PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine Hrs.	Rainfall Ins.	
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °			
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	0	38	31	0.0	-	
Newton Reigny (Penrith)	30.17	35	SSE 3	b	30.03	-21	30	29	-7	SE 2	bc	*	c, b	39	29	3.2	-	
Bath	30.16	32	E 1	o	30.08	-10	30	30	-4	E 1	o	*	-	36	30	0.0	-	

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	39	35	0	0.0	-	Worthing	*	*	*	4.3	*
Birmingham, 9 p.m. ...	34	32	0	0.0	-	Llandudno	*	*	*	0.8	*
Lowestoft, up to 6 p.m. ...	38	34	b, c	3.0	-	Rhyl	*	*	*	2.4	*
Hastings	*	*	*	4.9	*	Southport, 9 p.m. ...	40	31	0	0.0	-
Eastbourne	*	*	*	3.2	*	Manchester, 9 p.m. ...	40	32	0, bc	0.0	-
Brighton	*	*	*	3.8	*	Darwen, 9 p.m. ...	37	30	0, c, omu	0.0	-
						Plymouth 9 p.m. ...	43	36	0, bc	1.7	0.01

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
11. XII. 02									
Madeira (Funchal)	66	50	b bc	Ins. 0.04	Algiers	73	54	0 c	Ins. 0.08
Madrid <i>not rec'd</i>					Tunis	63	46	c 0	-
Corsica (I. Sanguinaires) ...	55	41	f f	-	Vienna	25	14	b 0	-
Rome	55	36	b c	-	St. Petersburg	19	10	0 b	-
Florence	48	39	m b	-					
Trieste	41	30	b b	-	10. XII. 02				
Naples	54	46	b b	-	Lugano	41	-	b	-
Palermo	70	49	c c	-	Davos	28	-	b	-
Malta	66	60	? c	-	Lucerne	25	-	0	-
					Lausanne	27	-	bc	-

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
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Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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12. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.57	11.47	3.36
Greenwich	7.58	11.54	3.49
Wick	8.55	12.6	3.16
Valencia	8.42	12.35	4.17

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† Except at Oxford, where the observations are taken at 8 p.m.

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for 8 a.m. on

SATURDAY 13TH DECEMBER

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.			Barometer.	Temperature.				Wind.					Temp.			
		At 92° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	Weather.	At 92° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.	Sea (0 to 9.)		Max.	Min.	Sun- shine. Hours	Rainfall. Ins.
		Ins.					Ins.	Ins.	°	°										
SCANDINAVIA.	Haparanda ...	30.18	26	NW	2	b	30.22	+11	13	13	-19	Z	0	f	*	-	36	?	*	-
	Hernösand ...	30.39	13	Z	0	b	30.31	-16	9	6	-13	Z	0	f	*	-	30	9	*	-
	Stockholm ...	30.49	15	Z	0	b	30.42	-11	23	23	+4	S	2	f	*	-	23	14	*	-
	Wisby ...	30.54	17	Z	0	f	30.43	-11	30	29	0	SE	2	f	*	-	32	21	*	-
	Karlstad ...	30.53	6	NNW	2	b	30.34	-23	11	11	0	N	2	b	*	-	*	*	*	-
	Færder (X'ania Fjord) ...	30.44	21	NNE	4	b	30.29	-23	23	22	-3	NNE	4	o	2	-	26	19	*	-
	Bodö ...	30.28	38	W	2	c	30.09	-19	33	31	-7	E	4	b	1	-	40	32	*	-
	Christiansund ...	30.21	31	ESE	2	b	29.98	-41	38	36	+9	WSW	4	b	5	-	39	28	*	-
	Skudesnaes ...	30.30	29	S	4	b	30.11	-24	35	31	+8	S	10	c	6	b	35	27	*	*
BRITISH ISLANDS.	Sumburgh Head ...	29.95	40	SE	5	o	29.64	-45	44	43	+4	SE	5	o	6	-	44	40	*	-
	Stornoway ...																			
	Malin Head ...	29.74	41	SE	6	om	29.55	-34	44	44	+5	S	5	cp	3	o,om	45	38	*	0.03
	Blacksod Pt. ...	29.65	45	SE	4	om	29.56	-22	47	44	+2	SW	5	bcm	4	b,om	49	44	*	0.30
	Valencia ...	29.65	48	SSE	6	tg	29.72	-05	48	44	+3	S	3	op	4	o,rg	52	44	0.5	0.35
	Roche's Point ...	29.76	49	S	4	o	29.76	-08	51	50	+3	SW	4	o	5	p,ort	51	48	*	0.17
	Parsonstown ...	29.76	45	SE	2	o	29.69	-17	46	45	+2	SSE	1	c	*	od,o	47	42	0.0	0.08
	Donaghadee ...	29.89	43	S	4	og	29.66	-34	49	48	+7	S	2	op	2	-	49	40	*	0.15
	Liverpool Obsy. ...	29.97	31	SE	5	om	29.87	-17	38	37	+7	SE	4	cp	4	om	38	30	*	0.09
	Holyhead ...	29.88	44	S	1	of	29.79	-18	48	47	+12	SW	6	cp	5	c,of	48	35	*	0.08
	Pembroke (St. Ann's) ...	29.85	41	SE	6	tm	29.87	-07	49	46	+10	SW	5	c	4	tm	50	38	0.0	0.10
	Scilly (St. Mary's) ...	29.85	49	SSW	5	o	29.92	+07	51	50	+3	SSW	4	o	4	o	51	46	1.0	0.07
	Jersey (St. Aubins) ...	29.99	44	SSE	5	ogmp	30.09	+05	47	47	+9	SE	3	om	3	o,ogmp	47	38	1.3	0.19
	Portland Bill ...	29.97	47	SSE	4	o	30.01	-03	48	47	+12	S	4	c	3	cm,o	49	34	*	0.06
	Dungeness ...	30.07	43	SSE	2	c	30.08	-02	45	45	+9	S	3	o	1	b,c,p	46	35	*	0.03
GERMANY, &c.	Wick ...	29.87	42	SE	6	bc	29.58	-42	44	43	+3	SE	6	m	4	-	44	38	*	-
	Nairn ...	29.87	25	Z	0	b	29.57	-44	42	40	+21	WSW	3	c	1	-	42	19	*	0.02
	Aberdeen ...	29.96	39	SSE	2	o	29.71	-38	43	42	+4	S	3	og	3	o	43	39	0.0	-
	Leith ...	29.99	34	E	1	b	29.70	-35	44	42	+6	SE	1	og	*	-	44	31	*	-
	North Shields ...	29.98	35	SSW	2	o	29.85	-21	36	36	-3	SSW	3	p	2	o	39	31	*	-
	Spurn Head ...	30.03	34	S	3	o	29.96	-12	41	40	+5	S	3	m	2	-	41	31	*	0.01
	Yarmouth ...	30.05	34	WSW	2	bcm	30.05	-03	43	42	+8	S	3	ogf	3	c,bcm	43	31	*	0.03
	Loughborough ...	30.05	31	SSW	2	o	29.98	-13	43	42	+12	S	3	op	*	ogm	43	30	*	-
	Oxford ...	30.02	34	SE	1	op	30.02	-09	44	43	+14	S	1	op	*	o,op	44	30	*	0.06
	London (Brixton) ...	30.05	37	SSE	1	cf	30.05	-07	46	45	+14	S	3	o	*	o,cf,of	46	32	0.0	0.08
FRANCE.	The Scaw (Skagen) ...	30.32	33	SE	4	b	30.24	-23	32	31	+4	S	2	m	0	-	34	28	*	-
	Fanö ...	30.23	20	ESE	3	b	30.22	-09	21	19	-3	ESE	2	b	*	-	30	19	*	-
	Cuxhaven ...	30.23	21	SE	1	b	30.23	-02	16	15	-5	S	1	b	*	-	23	16	*	-
	The Helder ...	30.13	23	SSE	1	m	30.12	-00	24	24	+5	SSE	1	bc	1	-	27	18	*	-
	Brussels ...	*	*	*	*	*	30.22	+05	34	31	+12	SSW	1	o	*	-	35	22	*	-
	Berlin ...	30.32	26	Z	0	b	30.32	-08	19	18	+4	SSE	1	b	*	-	32	15	*	-
	Frankfurt ...	30.32	22	SE	2	b	30.39	+11	15	14	0	S	2	f	*	-	27	14	*	-
	Munich ...	30.26	11	Z	0	f	30.34	+10	9	8	+4	SE	2	f	*	-	19	5	*	-
	C. Gris Nez ...	30.11	241	S	1	c	30.08	-03	246	42	+18	S	4	o	3	-	46	?	*	0.08
	Brest ...	29.97	49	SSW	1	o	30.04	+14	51	49	+5	W	3	bc	3	-	51	46	*	0.04
SPAN. PEN.	Lorient ...	29.99	50	SW	2	o	30.13	?	51	51	+8	WSW	4	f	4	-	54	41	*	0.24
	Rochefort ...	30.06	48	S	2	c	30.17	+18	44	43	-1	W	1	m	*	bc	52	41	*	-
	Biarritz ...	30.06	50	SE	3	b	30.21	+22	54	51	+9	Z	0	o	3	-	57	45	*	-
	Paris ...	30.16	32	NE	2	b	30.21	+08	30	30	+10	SE	3	o	*	-	39	20	*	-
	Belfort ...	30.27	24	ENE	3	m	30.34	+10	23	22	+7	Z	0	m	1	-	32	216	*	-
	Lyons ...	30.25	37	NW	1	c	30.35	+09	34	33	+5	SW	1	b	*	-	40	29	*	0.04
	Nice ...	30.26	45	E	5	f	30.27	+07	45	43	-1	E	1	c	?	-	48	43	*	0.43
SPAN. PEN.	Perpignan ...	30.13	52	SE	2	f	30.24	+14	52	51	+1	SE	2	f	*	-	53	51	*	0.39
	Corunna ...																			
	Lisbon ...	30.15	53	S	2	f	30.34	+27	52	50	-2	N	3	b	*	-	57	50	*	0.24
	Azores (P. Delgada) ...	30.30	62	SW	4	o	30.30		62	60	+7	SW	5	o	2	-	63	59	*	-

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR *Saturday, 13th December, 1902.*

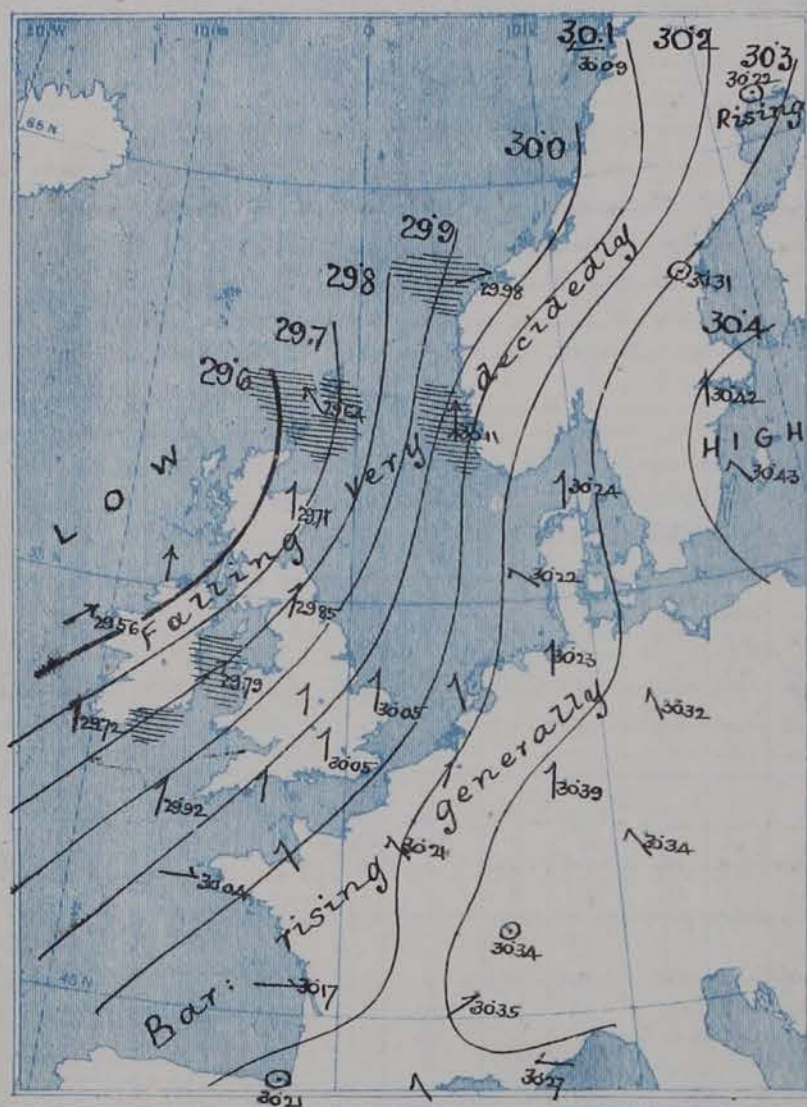
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → → → Force 5 to 7 → → → } Calm ☉
Force 8 to 10 → → → Force 1 to 4 → → →

SEA.—Rough High

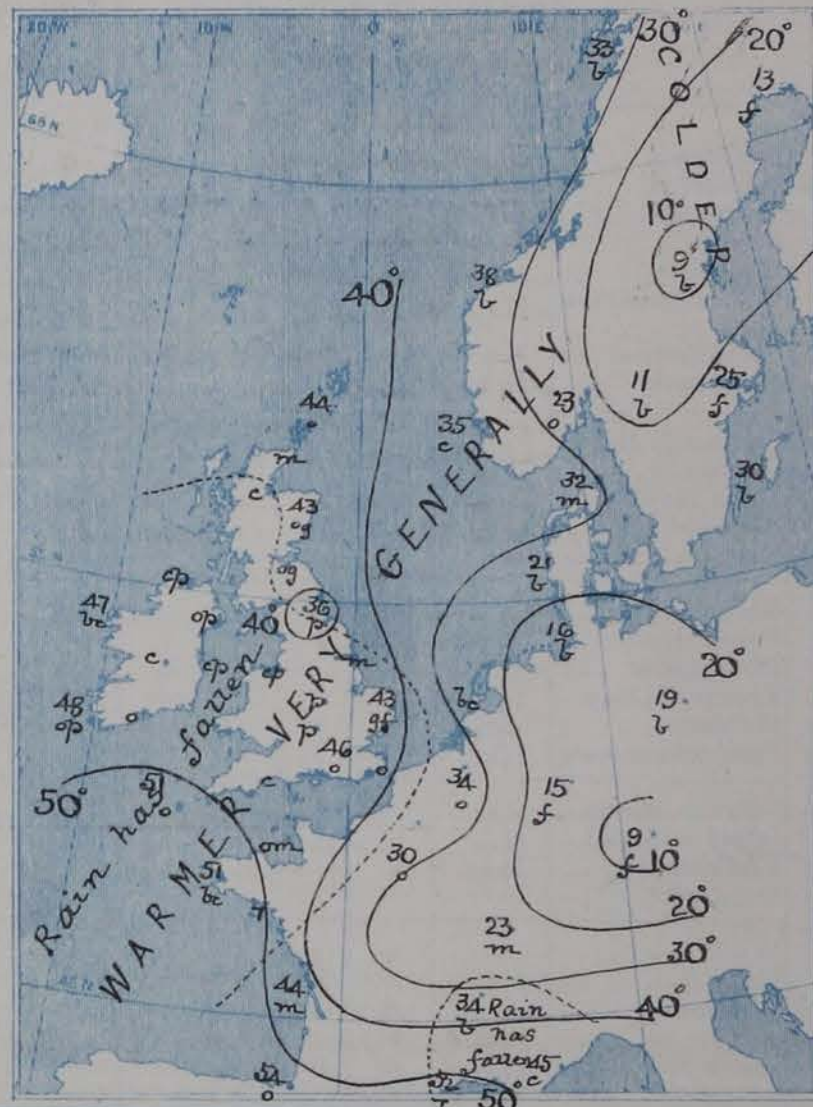


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus:—0.6



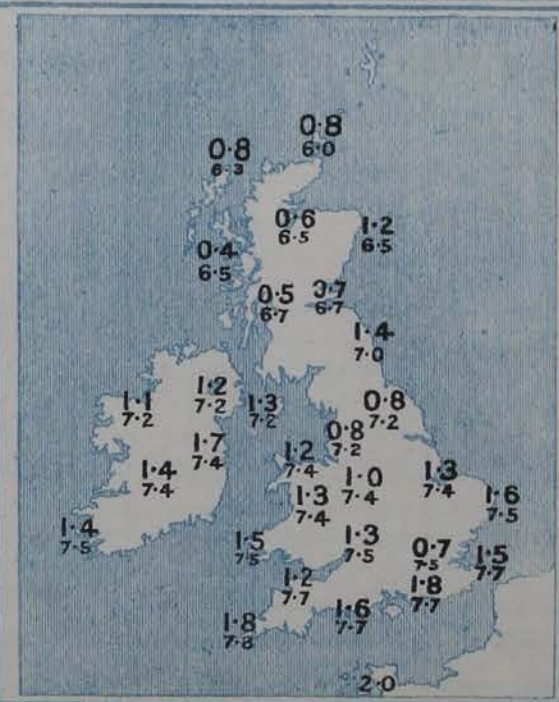
III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period
DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The anticyclone recently noticed over Northern Europe is moving away - apparently in a south-easterly direction, the highest pressures, 30.4 ins. and upwards, being now found over the Baltic. A cyclonic system is skirting the north-west of Scotland, in which region the barometer has probably fallen below 29.5 ins; the report from Stornoway has, however, not yet arrived. The mercury is falling over all the more northern parts of our area, but is rising in the south, and over the northern parts of the North Sea the gradient for S^W winds has become steep.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind has veered to the S^d or S.W^d over nearly the whole of our Islands and the neighbouring parts of the Continent, and blows freely or strongly on the more exposed portions of our western and extreme northern coasts; in the north of Scotland the direction is S.E.^W. The change of wind has been accompanied by a brisk rise of temperature, and the thermometer is now above the average in all parts of the United Kingdom excepting the north of England, where the readings are below 40°. On our western and southern coasts the thermometer is above 45°, and at Roche's Point and Scilly it stands at 51°. Over Sweden, Denmark and Germany, where the winds are very light (chiefly from S or S.E.), a hard frost still prevails, the morning temperatures being below 20° in many places, and as low as 9° at Hernimand and Munich, and 11° at Kasselad. The weather is cloudy over the greater part of the United Kingdom and France, with slight rain in several places, but is fine in Scandinavia, Denmark and Germany, with, however, local fogs. The sea is rough off the north of Scotland and the west of Norway, and rather rough on some of the more exposed parts of our western coasts.

Rain has fallen in many parts of these Islands and France, but the amount has been mostly slight. The duration of bright sunshine ^{yesterday} was generally small, but at Rhyl and Newton Reigny (Pembeth) it amounted to 4.7 hours.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The cyclonic system off the north-west of Scotland will probably travel away to the northward, but the conditions are now favourable for the advance of other disturbances towards our western coasts. S^W winds of increasing strength are probable in the west and north, and mild weather is likely to prevail for the next two or three days, at least, over the entire Kingdom.

FORECASTS *

For the 24 hours ending at NOON on 14th December, 1902

DISTRICTS.

FORECASTS.

0 $\overline{\text{N}}$	SCOTLAND NORTH	S.E. ^W to S ^W winds, strong, perhaps a gale; squally, some rain.
1	SCOTLAND EAST	S ^W winds, moderate or fresh; mild, changeable, some showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	S ^W or S.W ^W winds, moderate; fair generally, but slight local showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6 $\overline{\text{N}}$	SCOTLAND WEST	S.W ^W to S ^W winds, increasing in strength; fair at first, some rain later.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9 $\overline{\text{N}}$	IRELAND NORTH	At 7.20 p.m. yesterday to districts 6, 10 and parts of 0 and 9, and at 10.30 a.m. to-day to the remainder of 0, 'Hoist South Cone'.
10 $\overline{\text{N}}$	IRELAND SOUTH	

WARNINGS

Note.—The South Cone, point downwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	c	*	o. bc	41	33	3.0	0.11
Newton Reigny (Penrith)	29.92	30	20	c	29.78	-.25	39	39	+9	SE 2	+	*	bc, od	42	29	4.7	-
Bath	29.98	33	E 2	o	29.99	-.09	47	46	+17	E 1	o	*	-	48	29	0.0	0.03

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	36	30	o	0.0	-	Worthing	*	*	*	1.6	*
Birmingham, 9 p.m. ...	33	28	o	0.0	-	Llandudno	*	*	*	2.9	*
Lowestoft, up to 6 p.m. ...	37	29	o	0.0	-	Rhyl	*	*	*	4.7	*
Hastings	*	*	*	2.8	*	Southport, 9 p.m. ...	34	31	o	0.0	-
Eastbourne	*	*	*	2.0	*	Manchester, 9 p.m. ...	35	30	o, sm	0.0	-
Brighton	*	*	*	1.6	*	Darwen, 9 p.m. ...	33	28	sm	0.0	-
						Plymouth 9 p.m. ...	49	36	f, ot	0.0	0.12

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 12. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.		
	Max. °	Min. °				Max. °	Min. °				
Madeira (Funchal)	66	52	o	6	Ins.	Algiers	70	55	c	o	Ins.
Madrid	48	41	r	o	0.16	Tunis	66	45	o	o	—
Corsica (I. Sanguinaires) ...	57	46	r	r	0.24	Vienna	25	7	6	5	—
Rome	52	40	o	c	—	St. Petersburg... ..	?	?	c	6	—
Florence	48	37	6	6	—	11. XII. 02	1 p.m.	1 p.m.	Measured 7 a.m.		
Trieste	37	28	6	r	—	Lugano	39	—	6	—	
Naples	53	44	6	6	—	Davos	30	—	6	—	
Palermo	51	45	6	o	—	Lucerne	23	—	o	—	
Malta... ..	63	58	?	o	—	Lausanne	27	—	gu	—	

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy). o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

13. XII. 1903.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.58	11.47	3.36
Greenwich	7.59	11.54	3.49
Wick	8.56	12.6	3.16
Valencia	8.43	12.35	4.27

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Sunday, 14th December,

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.		
				Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Max.	Min.				
																				At 32° and M.S.L.	Dry Bulb.
SCANDINAVIA.	Haparanda ...	30.24	28	SW	4	0	30.11	-11	31	30	+18	W	4	C	*	-	32	12	*	-	
	Hernösand ...	30.21	24	Z	0	0	30.15	-16	25	24	+16	S	4	B	*	-	25	9	*	-	
	Stockholm ...	30.35	28	Z	0	0	30.34	-08	24	24	+1	Z	0	f	*	-	32	12	*	-	
	Wisby ...	30.38	32	Z	0	0	30.41	-02	32	31	+2	SSW	2	0	*	-	34	23	*	-	
	Karlstad...	30.32	17	NE	2	0	30.35	+01	25	24	+14	Z	0	0	*	-	*	*	*	-	
	Færder (X'iania Fjord)	30.27	27	NE	2	0	30.25	-04	32	31	+9	SSE	4	m	2	-	9	23	*	0.04	
	Bodö ...	29.91	39	E	4	0	29.89	-20	33	31	0	E	4	0	1	-	39	32	*	-	
	Christiansund ...	29.88	35	WSW	1	0	29.88	-10	43	39	+5	WSW	2	+	5	-	43	34	*	-	
Skudesnaes ...	30.04	39	SSE	9	0	30.05	-06	41	41	+6	S	8	0	5	0	41	35	*	-		
BRITISH ISLANDS.	Sumburgh Head	29.58	46	SSW	4	0	29.65	+01	43	41	-1	SSE	3	0	5	0	46	43	*	0.02	
	Stornoway ...	29.54	44	SSW	3	cu	29.32	-10	46	43	-1	SSW	8	0	8	c,dp,m,cw	48	37	0.1	0.39	
	Malin Head ...	29.66	43	SW	5	0	29.27	-28	52	50	+8	S	8	0	5	0	52	43	*	0.02	
	Blacksod Pt. ...	29.68	46	WSW	7	c,dp,m	29.32	-24	52	49	+5	SSW	9	c,dp,m	7	c,dp,m	53	45	*	0.43	
	Valencia...	29.83	47	SW	4	0	29.53	-19	51	50	+3	S	6	+	6	c,dp	55	44	2.5	0.44	
	Roche's Point ...	29.93	49	WSW	3	0	29.68	-08	53	53	+2	SSE	8	0	7	c,dp,t	53	47	*	0.16	
	Parsonstown ...	29.84	44	W	2	0	29.55	-14	54	52	+8	SE	7	tg	*	p,dp	55	40	2.9	0.05	
	Donaghadee ...	29.76	46	SW	3	0	29.63	-03	51	50	+2	SW	5	0	4	-	51	41	*	0.03	
Liverpool Obsy.	29.94	49	S	4	0	29.93	+06	46	43	+8	SSE	4	0	3	p,dp	50	38	*	0.01		
Holyhead ...	29.91	50	SW	4	0	29.81	+02	50	50	+2	SSW	8	tg	8	dp,c	50	47	*	0.08		
Pembroke (St. Ann's)	30.01	51	SW	6	0	29.92	+05	52	51	+3	SSW	7	0	6	-	57	48	0.0	0.02		
GERMANY, &c.	Scilly (St. Mary's)...	30.05	53	SSW	5	0	29.98	+06	54	53	+3	SSW	7	0	6	0,c	55	50	0.0	0.02	
	Jersey (St. Aubins)...	30.23	49	WSW	3	0	30.32	+23	51	50	+4	SSW	5	0	4	dp,dp,m	52	47	2.0	0.02	
	Portland Bill ...	30.15	50	SW	4	0	30.22	+21	51	50	+3	SSW	5	0	4	c,dp	52	47	*	0.03	
	Dungeness ...	30.16	48	SW	3	0	30.31	+23	48	47	+3	SW	5	0	3	0,dp	48	45	*	0.02	
	Wick ...	29.62	43	SE	3	0	29.58	00	43	41	-1	SE	6	cu	4	-	45	39	*	-	
	Nairn ...	29.63	39	Z	0	0	29.55	-02	45	43	+3	SSW	2	0	1	-	49	35	*	-	
	Aberdeen ...	29.72	46	S	3	0	29.72	+01	46	44	+3	SSE	4	0	4	tc,dp	46	41	0.0	0.02	
	Leith ...	29.78	48	SSW	2	0	29.70	00	51	46	+7	S	5	0	*	-	51	44	*	-	
North Shields ...	29.83	47	SSW	2	0	29.91	+06	45	44	+9	S	3	0	2	c,dp	48	36	*	-		
FRANCE.	Spurn Head ...	29.99	45	S	4	0	30.07	+11	44	44	+3	SSE	4	0	3	-	46	41	*	-	
	Yatmouth ...	30.07	46	SSW	3	0	30.22	+17	46	45	+3	SSW	3	0	4	c,f	46	41	*	0.01	
	Loughborough ...	30.03	48	SSW	3	0	30.09	+11	50	49	+7	SSW	5	0	*	tc,dp,dp	50	42	*	0.02	
	Oxford ...	30.13	49	S	3	0	30.17	+15	50	49	+6	S	3	0	*	0,c,dp	51	42	*	0.01	
	London (Brixton)	30.15	46	SSW	2	0	30.27	+22	51	50	+5	SW	4	0	*	dp,dp,dp	51	46	0.0	0.03	
	The Scaw (Skagen)	30.24	32	S	2	0	30.25	+01	33	33	+1	S	2	0	0	-	34	28	*	-	
	Fanö ...	30.25	28	SE	2	0	30.32	+10	35	34	+14	S	2	0	0	-	35	21	*	-	
	Cuxhaven ...	30.26	26	S	1	0	30.38	+18	36	33	+20	SSW	1	0	0	-	36	9	*	-	
The Helder ...	30.17	36	SSW	1	0	30.29	+17	37	37	+13	SSW	2	0	1	-	39	24	*	-		
SPAN. PEN.	Brussels...	*	*	*	*	*	30.44	+22	39	39	+5	SSE	2	0	0	-	46	34	*	-	
	Berlin ...	30.39	23	Z	0	0	30.49	+17	16	15	-3	Z	0	0	0	-	27	14	*	-	
	Frankfurt ...	30.47	23	SW	1	0	30.56	+17	21	21	+6	ESE	2	0	0	-	27	15	*	-	
	Munich ...	30.43	12	Z	0	0	30.53	+19	13	13	+4	SE	3	0	0	-	19	7	*	-	
	C. Gris Nez ...	30.18	44	SSW	5	0	30.32	+24	42	42	-4	SW	5	0	4	-	50	41	*	0.04	
	Brest ...	30.22	53	SSW	3	0	30.26	+22	53	53	+2	SSW	5	0	5	-	54	51	*	0.04	
	Lorient ...	30.26	52	W	3	0	30.32	+19	52	52	+1	SW	3	0	5	-	55	51	*	0.20	
	Rochefort ...	30.31	48	SSW	2	0	30.42	+25	47	46	+3	SW	2	0	0	tc	50	39	*	0.04	
Biarritz ...																					
SPAN. PEN.	Paris ...	30.32	43	SW	3	0	30.47	+26	35	35	+5	S	3	0	0	-	50	30	*	0.04	
	Belfort ...	30.38	35	ENE	3	0	30.52	+18	28	27	+5	NE	3	0	0	-	41	23	*	-	
	Lyons ...	30.41	41	NW	1	0	30.53	+18	37	35	+3	NE	1	0	0	-	46	34	*	-	
	Nice ...																				
	Perpignan ...	30.35	48	Z	0	0	30.41	+17	50	48	-2	NW	2	0	0	-	56	46	*	0.12	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR Sunday 14th December, 1902.

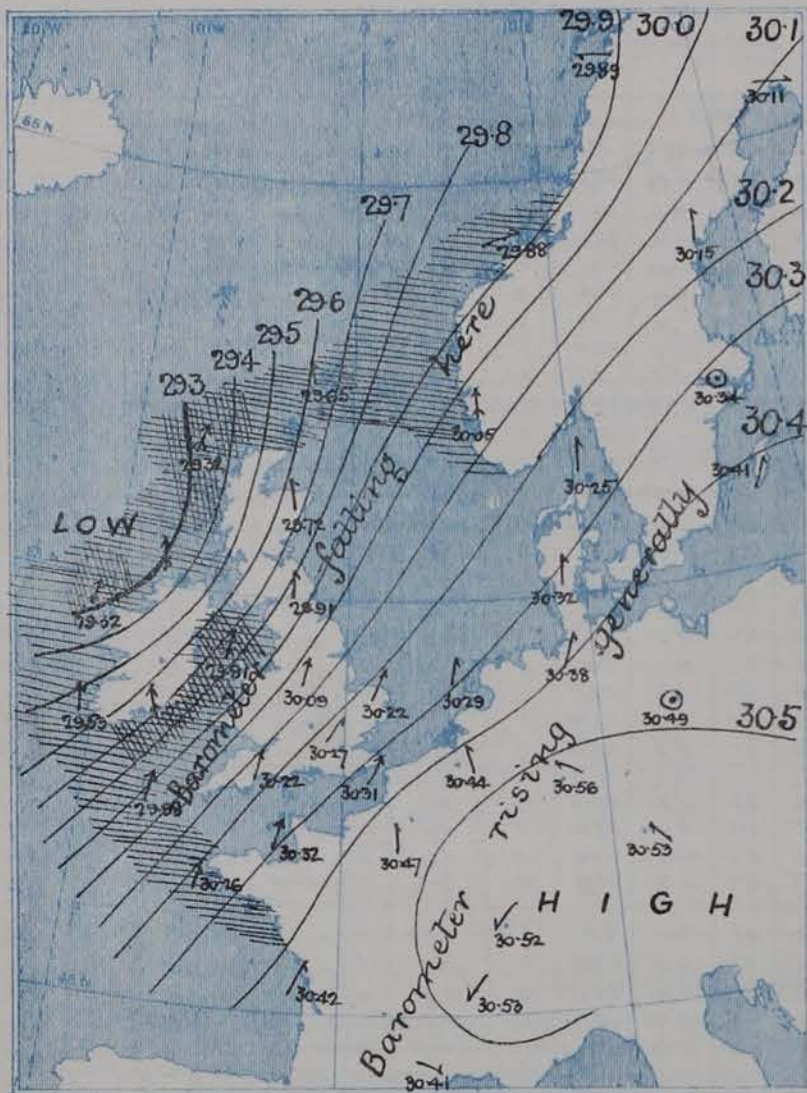
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 → }

SEA.—Rough High

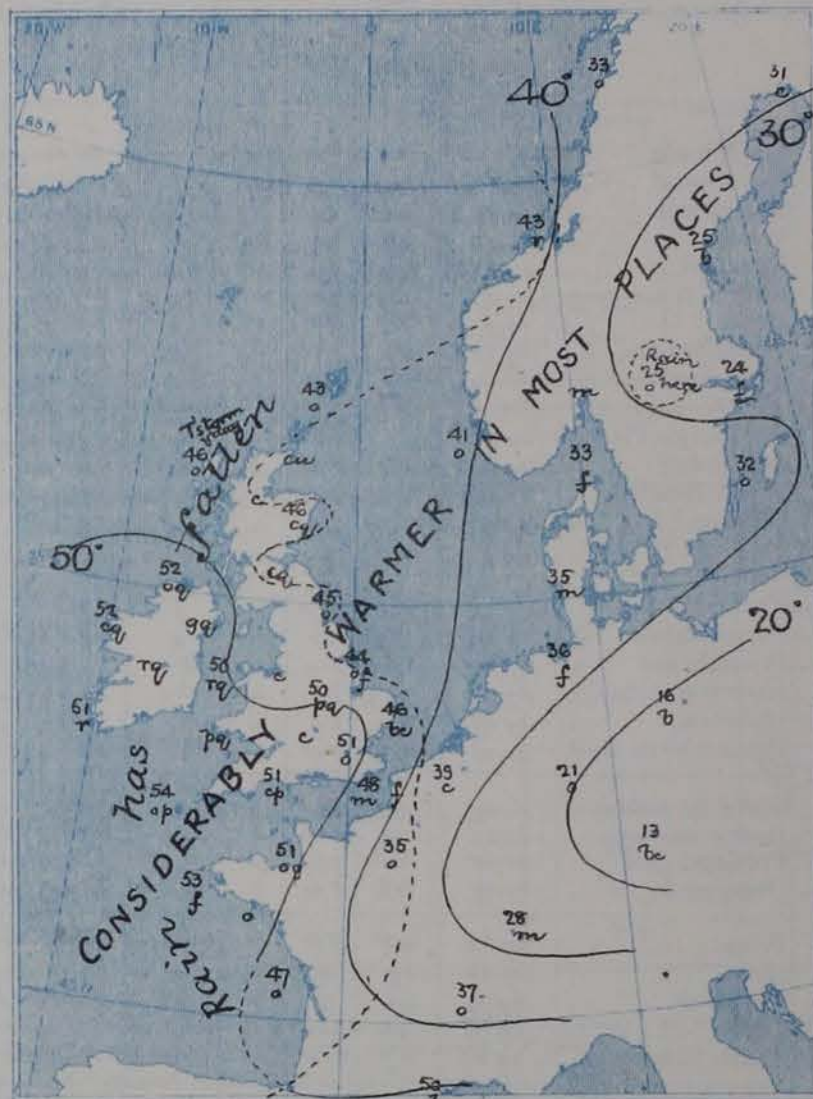


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average N^o of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period

DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure now ranges from above 30.5 ins. over the more southern parts of Germany and the east of France, and 30.5 ins. at Lisbon, to less than 29.3 ins. in a large and rather deep disturbance that has appeared off our Northwest coasts. Pressure is still decreasing briskly in most parts of the United Kingdom, but is inclined to increase again in the Southwest of Ireland. Gradients are steep throughout Ireland, Scotland and the northern parts of the North Sea.

WIND

TEMPERATURE

WEATHER

AND

SEA

S^W or SW^W winds prevail on all our own coasts, and also on nearly all the western coasts of the continent, but over Germany and the east of France it is mainly E^W or NE^W. It is fresh or strong in force in most parts of our Islands, and blows a gale at several western stations as well as in the southwest of Norway. Temperature has again risen very generally; over the United Kingdom it is much above the normal, ranging from 54° at Scilly and Parsonstown and 51° at Leith to 44° at Spurn Head and 43 in the Shetlands and at Wick. The continental values range from 53° at Brest to 35° at Paris, and from 43° at Christiansund to 24° at Stockholm, 16° at Berlin and 13° at Munich. The weather is fine at a few German stations, but cloudy or dull over our area as a whole, with rain at Christiansund and passing showers or steady rain in many English and Irish localities. Fog prevails at the mouth of the Elbe, the Scaur, and Stockholm. The sea is very high at Stornoway and Holyhead, high at Blacksod Point, and Roches Point, and rough or rather so, in the extreme north, west and southwest generally. The maximum temperatures registered over our Islands yesterday were above 50° in many places, and as high as 55° at some Irish stations and at Scilly. Over the greater part of Germany the thermometer remained much below 32°. Rain fell in most parts of our Islands and France, and in the Hebrides sleet, accompanied by thunder and lightning was experienced. Very little bright sunshine was recorded - in many places there was none.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS *

For the 24 hours ending at NOON on 15th December 1902

DISTRICTS

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

None Issued

DISTRICTS.



FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

WARNINGS

None Issued

At 9.20 a.m. to districts 7, 8 and parts of 1, 5 and 9 "Hoist South Cone." The signals are still flying in districts 0, 10 and the remainder of 1 and 9.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet. °	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	7	*	0	44	41	0.0	0.02
Newton Reigny (Penrith)												*					
Bath	30.04	37	SE 2	0	30.15	+16	53	50	+6	S 5	0	*	-	53	41	0.2	0.02

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	48	30	o, c, o	0.0	0.0	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	48	30	o, d, o	0.0	0.03	Llandudno	*	*	*	1.5	*
Lowestoft, up to 6 p.m. ...	*	*	*	*	*	Rhyl up to 6 p.m. ...	*	*	*	*	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	48	33	o, c	0.1	0.06
Eastbourne up to 6 p.m. ...	*	*	*	*	*	Manchester, 9 p.m. ...	48	33	7, p, c	0.2	0.05
Brighton	*	*	*	*	*	Darwen, 9 p.m. ...	45	32	o, m, r, c, m	0.0	0.10
						Plymouth	53	48	o, p, c, t	0.6	0.19

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
13.X.11.02									
Madeira (Funchal)		Not	received	Ins.	Algiers	68	54	c, o	1.42
Madrid	50	41	o, o	-	Tunis	64	54	m, b	0.47
Corsica (I. Sanguinaires) ...	61	43	f, o	0.20	Vienna	19	3	s, f	?
Rome	55	41	c, o	-	St. Petersburg	30	25	s, s	-
Florence	48	33	b, b	-		1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	43	28	b, b	-	Lugano 12.X.11.02	37	-	c	-
Naples	52	45	o, o	-	Davos	30	-	b	-
Palermo	72	59	o, o	0.08	Lucerne	23	-	m	-
Malta	64	58	?, r	0.20	Lausanne	30	-	m	-

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

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

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.	14. DEC., 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.	Yarmouth	7.59	11.48	3.36
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.	Greenwich	8.0	11.55	3.49
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.	Wick	8.57	12.7	3.16
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.	Valencia	8.44	12.36	4.27
Portugal	8 a.m. (Lisbon)	8.36 a.m.						

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on *Monday, 15th December.*

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	Time		Sun- shine. Hours	Rainfall. Ins.	
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.			Max.	Min.			
																					Ins.
SCANDINAVIA.																					
Haparanda	...	30.03	30	SW	4	o	30.00	-11	33	31	+2	SW	4	o	*	-	33	16	*	-	
Hernösand	...	30.13	24	Z	0	b	29.98	-17	35	33	+10	SW	4	o	*	-	35	23	*	-	
Stockholm	...	30.37	29	Z	0	o	30.25	+0.9	37	36	+13	S	2	o	*	-	37	21	*	0.08	
Wisby	...	30.42	35	W	2	bc	30.34	-0.7	36	36	+4	S	2	f	*	-	36	25	*	-	
Karlstad	...	30.32	33	Z	0	f	30.15	-2.0	38	37	+13	SW	2	o	*	-	*	*	*	0.04	
Færder (X'ania Fjord)	...	30.24	35	S	4	f	30.03	-2.2	36	36	+4	S	6	f	3	-	36	32	*	-	
Bodö	...	29.80	40	E	2	bc	29.54	-3.5	41	39	+8	E	4	bc	1	-	41	33	*	0.04	
Christiansund	...	29.68	48	SSE	4	bc	29.48	-4.0	49	43	+6	SW	3	c	5	-	50	39	*	-	
Skudesnaes	...	29.93	43	S	8	t	29.71	-3.4	44	44	+3	S	10	t	6	-	45	41	*	-	
BRITISH ISLANDS.																					
Sumburgh Head	...	29.32	47	SSE	5	o	29.32	-3.3	44	43	+1	Z	0	t	4	ot	47	42	*	0.11	
Stornoway	...	29.28	47	WSW	4	o	29.42	+1.0	40	37	-6	NW	2	o	2	cl, o	52	25	0.0	0.21	
Malin Head	...	29.38	44	SSW	7	og	29.58	+3.1	41	39	-11	NW	8	ogp	6	0.09	52	38	*	0.41	
Blacksod Pt.	...	29.39	47	SSW	6	cpm	29.78	+4.6	44	40	-8	WNW	7	bcp	5	cpm	52	40	*	0.28	
Valencia	...	29.51	49	SW	6	og	29.97	+4.4	47	45	-4	W	7	bc	6	og, og, t	54	39	0.0	0.27	
Roche's Point	...	29.61	48	W	5	op	29.94	+2.6	43	40	-10	WNW	4	b	6	0.7, op	53	41	*	0.92	
Parsonstown	...	29.53	45	SE	1	o	29.84	+2.9	40	37	-14	WSW	3	cq	*	og	54	38	0.0	0.41	
Donaghadee	...	29.52	50	SW	3	o	29.51	-1.2	41	40	-10	SW	3	c	4	-	52	39	*	0.43	
Liverpool Obsy.	...	29.77	54	S	3	o	29.72	-2.1	41	39	-5	SW	3	b	3	op	56	40	*	0.31	
Holyhead	...	29.64	52	SSW	8	ogm	29.68	-1.3	43	42	-7	W	7	c	6	ogm	52	42	*	1.30	
Pembroke (St. Ann's)	...	29.73	52	SSW	7	o	29.78	-1.4	46	43	-6	WNW	8	cq	7	ogp	53	44	0.0	0.66	
Scilly (St. Mary's)	...	29.84	54	SSW	8	o	29.98	0.0	48	46	-6	WNW	8	cq	7	o	55	45	0.0	0.22	
Jersey (St. Aubins)	...	30.24	52	S	5	og	30.09	-2.3	48	44	-3	W	6	bcq	5	og	54	47	1.6	0.30	
Portland Bill	...	30.11	52	SSW	6	c	29.93	-2.9	47	43	-4	W	7	bcq	6	c, p, c	53	45	*	0.18	
Dungeness	...	30.24	49	SSW	6	o	29.95	-3.6	46	45	-2	SW	5	og	3	m, o	49	43	*	0.08	
Wick	...	29.40	45	SSW	5	o	29.38	-2.0	42	42	-1	N	2	og	2	0.2, t	49	38	*	0.20	
Nairn	...	29.41	45	SW	2	t	29.38	-1.7	38	37	-7	W	1	op	1	-	51	37	*	0.31	
Aberdeen	...	29.49	50	SSE	5	ogt	29.40	-3.2	42	40	-4	SW	3	c	3	yt	51	42	0.0	0.32	
Leith	...	29.49	51	SSW	6	c	29.49	-2.1	43	40	-8	SW	4	c	*	c, t	55	38	*	0.54	
North Shields	...	29.71	55	S	4	o	29.63	-2.8	42	40	-3	SSW	3	bc	2	p, o, t	55	42	*	0.20	
Spurn Head	...	29.92	49	S	6	c	29.75	-3.2	42	42	-2	S	3	bc	3	c, t, t	51	42	*	0.13	
Yarmouth	...	30.13	47	S	5	ogm	29.89	-3.3	45	44	-1	SSW	5	cm	5	c, ogm	48	43	*	0.03	
Loughborough	...	29.96	53	SW	6	o	29.80	-2.9	42	39	-8	SW	6	og	*	c, og, b	54	42	*	0.12	
Oxford	...	30.00	52	SSW	4	o	29.90	-2.7	43	40	-7	S	2	c	*	op, d	54	42	*	0.12	
London (Brixton)	...	30.15	52	SW	5	od	29.93	-3.4	44	42	-7	SSW	3	b	*	og, d, y	53	44	0.0	0.12	
GERMANY, &c.																					
The Scaw (Skagen)	...	30.22	35	SSW	2	f	30.11	-1.4	36	36	+3	S	3	f	1	-	36	32	*	0.04	
Fanö	...	30.30	32	S	4	f	30.12	-2.0	33	33	-2	S	6	f	*	-	36	32	*	-	
Cuxhaven	...	30.41	37	SSW	2	f	30.18	-2.0	35	35	-1	S	3	f	*	f	39	35	*	-	
The Helder	...	30.26	40	SSW	4	o	29.97	-3.2	39	39	+2	SSW	4	o	2	-	43	37	*	-	
Brussels	...	*	*	*	*	*	30.13	-3.1	40	39	+1	SSW	5	o	*	-	44	38	*	-	
Berlin	...	30.54	27	SSE	1	b	30.36	-1.3	15	15	-1	SSE	2	b	*	-	28	14	*	-	
Frankfurt	...	30.51	25	E	2	b	30.33	-2.3	24	22	+3	SE	1	bc	*	-	28	19	*	-	
Munich	...	30.50	17	Z	0	bc	30.34	-1.9	6	6	-7	Z	0	f	*	-	23	5	*	-	
FRANCE.																					
C. Gris Nez	...	30.26	46	SW	5	o	30.05	-2.7	44	44	+2	W	5	t	5	-	48	41	*	0.16	
Brest	...	30.15	53	SSW	6	o	30.14	-1.2	49	46	-4	WNW	5	bc	5	-	54	45	*	0.12	
Lorient	...	30.31	54	SW	4	c	30.20	-1.0	50	50	-2	WNW	6	o	5	-	55	48	*	0.16	
Rochefort	...	30.40	49	S	2	o	30.24	-1.8	46	46	-1	S	3	t	*	-	50	43	*	0.04	
Biarritz	...	30.44	49	ENE	3	b	30.41		50	46		SSW	3	b	5	-	55	45	*	-	
Paris	...	30.44	39	SSE	2	o	30.20	-2.7	37	37	+2	S	4	o	*	-	39	32	*	-	
Belfort	...	30.54	27	ENE	3	m	30.36	-1.6	23	22	-5	SW	3	m	*	-	42	19	*	-	
Lyons	...	30.47	42	H	1	c	30.41	-1.2	34	33	-3	SE	1	f	*	-	46	33	*	-	
Nice	...	30.37	47	SW	2	c	30.33		40	36		E	2	b	2	c	52	39	*	-	
Perpignan †	...	30.38	52	W	3	b	30.38	-0.3	37	37	-13	SW	1	b	*	-	58	37	*	-	
SPAN. PEN.																					
Corunna	...																				
Lisbon	...																				
Azores (P. Delgada)	...																				
" (Horta)	...	30.40	61	SSW	4	o	30.35	+0.7	62	61	-1	SSW	4	o	2	-	64	59	*	0.04	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR Monday 15th December, 1902.

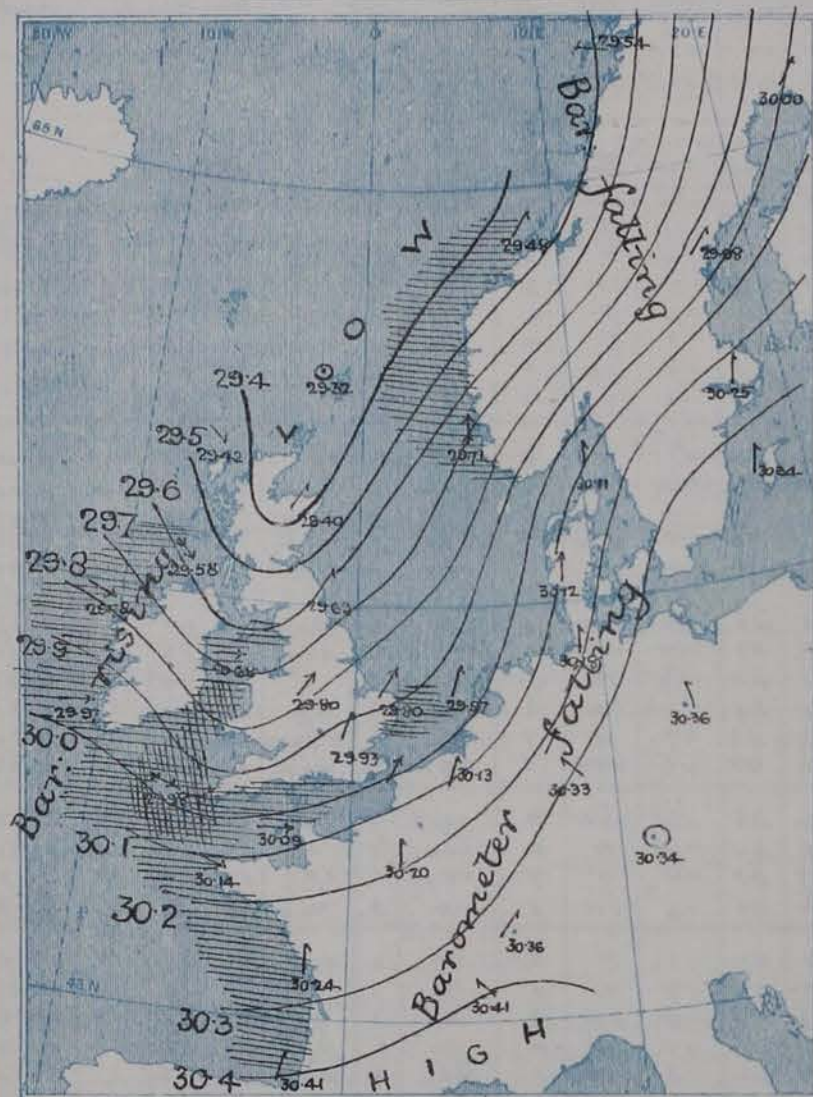
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → → → Force 5 to 7 → → → } Calm ☉
Force 8 to 10 → → → Force 1 to 4 → → →

SEA.—Rough High

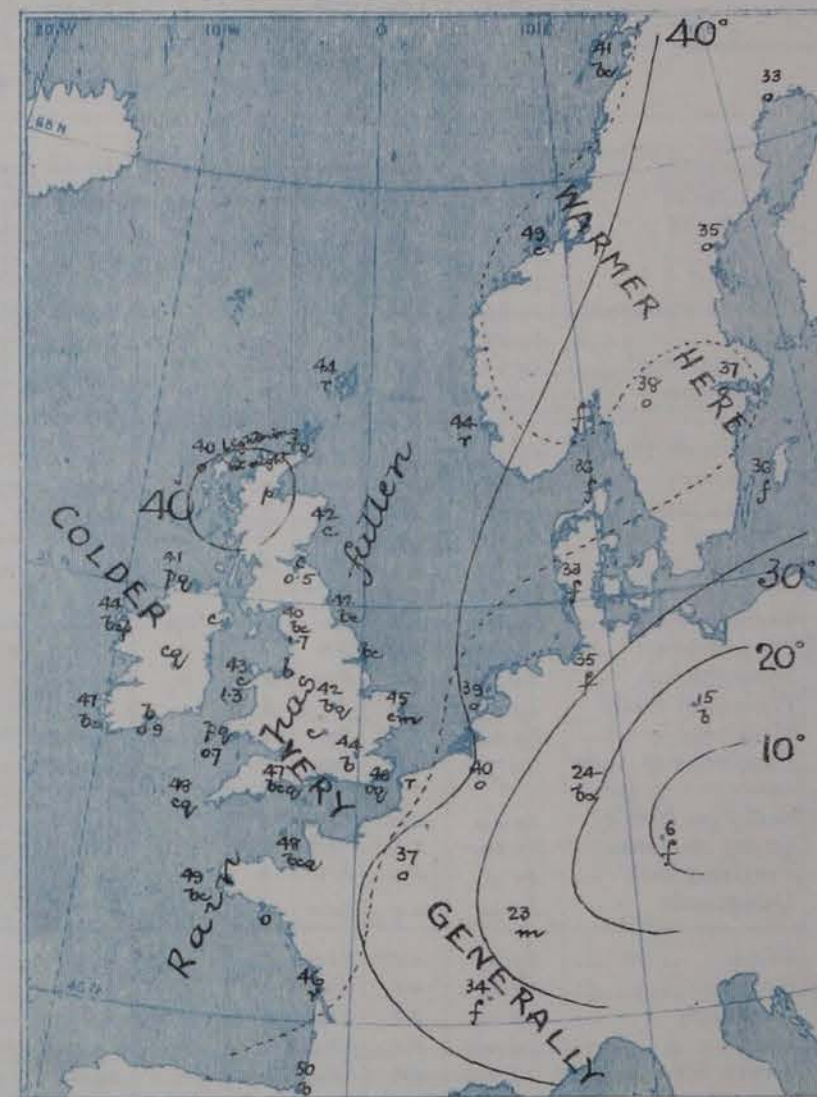


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus --0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

Specimen. { Average No. of Hourly daily 0.8
(for Stornaway) { Total Possible 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Since yesterday morning a large and rather deep cyclonic disturbance has been travelling north-eastwards over our extreme north-western coasts; its centre now lies near the Shetlands, where the barometer is as low as 29.32 in. A secondary system has at the same time advanced more directly over the Kingdom and is shown this morning near Pembroke. Pressure has become highest, above 30.4 in., over Spain and the south of France, but is nearly as high over the Baltic. The mercury is rising again briskly on our western and extreme south-west coasts.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind has veered to W. or W.N.W. at most of our western and southern stations, and still blows strongly or with the force of a gale. In all other parts of our area it is S^W or S.W^W and generally more moderate in strength; at Skudesnaes, however, a whole gale is reported. Temperature has fallen over our Islands, but is still high for the time of year. It ranges from 48° at Sully and Jersey to 44° in London and the Shetlands, and to 38° at Naim. Over the Continent it varies greatly, being high in Scandinavia and very low over Germany. At Christianund the reading is 49° and at Stockholm 37°, while at Berlin it is 15° and at Munich as low as 6°. The weather has cleared in the south of Ireland and in some parts of England, and is also fine at some German stations. As a whole, however, the sky is very cloudy or overcast, with showers at some of our own stations, and steady rain at Rochefort and Skudesnaes. Fog prevails over Denmark and its neighbourhood, as well as at Munich and Lyons. The sea is rough or rather so on most parts of our coasts, high in the south-west.

During the past 24 hours rain has been very general over the United Kingdom and the west of France; as much as 0.92 in. has fallen at Rocher Point, 1.30 in. at Holyhead, and 1.67 in. at Newton Reigny, and scarcely any bright sunshine has been recorded. Maximum temperatures between 50° and 55° were very general over our Islands yesterday, and the past night was mild. Lightning was observed during the afternoon or night at Stornoway and Wick.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The cyclonic disturbances referred to above are likely to both move away north-eastwards, but they will probably be followed by other systems from the Atlantic very shortly, so that the general character of the weather may be expected to remain mild and unsettled.

FORECASTS *

For the 24 hours ending at NOON on 16th December, 1902

DISTRICTS.

FORECASTS.

0 $\overline{\pi}$ { SCOTLAND
NORTH

N^W and N.W^W winds, backing later; unsettled, some rain.

1 $\overline{\pi}$ { SCOTLAND
EAST

S.W^W or W^W winds, moderate; changeable, some rain.

2 $\overline{\pi}$ { ENGLAND
N.E.

3 $\overline{\pi}$ { ENGLAND
EAST

4 { MIDLAND
COUNTIES

S.W^W to W^W winds, varying in force; some showers, bright intervals. Cold to-night.

5 $\overline{\pi}$ { ENGLAND
SOUTH

DISTRICTS.

FORECASTS.

6 $\overline{\pi}$ { SCOTLAND
WEST

Same as No. 0.

7 $\overline{\pi}$ { ENGLAND
N.W.

8 $\overline{\pi}$ { ENGLAND
S.W.

N.W^W and W^W winds, strong, to S.W^W or S^W winds; showery, unsettled.

9 $\overline{\pi}$ { IRELAND
NORTH

10 $\overline{\pi}$ { IRELAND
SOUTH

WARNINGS

At 6.50 p.m. yesterday to districts 2, 3 and part of 5, Hoist South Cone, and at 7 p.m. to districts 6, 10 and parts of 0 and 9, Keep up South Cone. The signals are still flying excepting in parts of 0 and 1.

Note.—The South Cone, point downwards ($\overline{\pi}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (π), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine: Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	c	*	m,c	45	41	0.0	0.08
Newton Reigny (Penrith)	29.67	50	S 6	+	29.57		40	39		SSW 3	bcg	*	+	53	40	0.0	1.67
Bath	30.05	53	SE 6	0	29.89 - .26		44	40	- 9	S 6	0	*	-	55	43	0.0	0.20

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	55	41	0	0.0	0.01	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	52	42	od, 0	0.0	0.04	Llandudno	*	*	*	0.8	*
Lowestoft, up to 6 p.m. ...	*	*	*	0.0	*	Rhyl up to 6 p.m. ...	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	54	40	ct	0.0	0.26
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	55	41	o, 7, oug	0.0	0.01
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	51	32	o, 7g	0.0	0.07

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
14. X 11.02									
Madeira (Funchal)	Information not yet rec ^d			Ins.	Algiers				Ins.
Madrid					Tunis				
Corsica (I. Sanguinaires) ...					Vienna				
Rome					St. Petersburg				
Florence									
Trieste					13. X 11.02				Measured 7 a.m.
Naples					Lugano	39	—	b	—
Palermo					Davos	30	—	b	—
Malta					Lucerne	27	—	f	—
					Lausanne	34	—	f	—

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

15. X 11. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.0	11.48	3.36
Greenwich	8.1	11.55	3.49
Wick	8.58	12.7	3.16
Valencia	8.45	12.36	4.27

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ „ £1 10 0 „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 16th December,

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)			At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Max.			Min.			
																			Ins.			Ins.	°	°
SCANDINAVIA.		Haparanda ...	29.86	34	NNW	4	S	29.91	-0.09	33	33	0	SSW	6	0	*	-	41	?	*	0.04
		Hernösand ...	29.97	37	S	2	0	29.93	-0.05	33	33	-2	Z	0	0	*	-	37	23	*	-
		Stockholm ...	30.13	36	S	2	0	30.06	-0.19	33	32	-4	S	2	0	*	-	37	27	*	-
		Wisby ...	30.16	31	S	2	3	30.08	-0.26	31	30	-5	S	2	0	*	-	37	28	*	-
		Karlstad ...	30.01	36	SE	2	+	29.95	-0.20	35	35	-3	S	2	f	*	-	*	*	*	-
		Färder (X'iania Fjord)	29.93	34	S	5	f	29.92	-0.11	35	35	-1	SW	2	f	3	-	36	34	*	0.20
		Bodö ...	29.56	42	E	2	c	29.65	+0.11	40	39	-1	SW	4	0	3	-	45	39	*	-
		Christiansund ...	29.59	46	SW	2	c	29.73	+0.25	39	36	-10	SW	1	0	4	-	49	37	*	-
		Skudesnaes ...	29.78	44	SSW	6	0	29.83	+0.12	40	39	-4	S	4	0	4	T.O	45	36	*	-
		BRITISH ISLANDS.		Sumburgh Head	29.60	43	W	2	0	29.22	-0.10	44	42	0	SE	7	+	7	0.6	44	41	*	0.36
Stornoway ...	29.65			41	SW	2	bc	28.75	-0.67	50	50	+10	S	7	+	7	0.6	50	38	1.1	0.56
Malin Head ...	29.81			41	SW	7	bcg	29.36	-0.22	48	47	+7	W	9	cq	7	0.6	52	39	*	0.12
Blacksod Pt. ...	29.75			46	SW	6	rgm	29.49	-0.29	50	48	+6	W	4	cm	5	0.6	54	40	*	1.13
Valencia ...	29.88			46	S	5	rmg	29.67	-0.30	54	53	+7	SW	7	rmg	6	0.6	55	43	0.6	0.90
Roche's Point ...	30.03			49	WSW	5	op	29.73	-0.21	54	53	+11	WSW	5	og	6	0.6	54	41	*	0.67
Parsonstown ...	29.95			43	SE	3	0	29.58	-0.26	54	53	+14	W	7	og	4	0.6	55	39	3.1	0.43
Donaghadee ...	29.95			41	NNW	2	bc	29.38	-0.13	55	54	+14	W	6	rg	4	-	55	38	*	0.40
Liverpool Obsy.	30.10			39	WSW	3	bc	29.62	-0.10	52	50	+11	SW	6	0	5	0.6	54	39	*	0.14
Holyhead ...	30.06			45	SW	4	bc	29.60	-0.08	52	52	+9	SW	8	og	6	0.6	52	42	*	0.61
GERMANY, &c.		Pembroke (St. Ann's)	30.14	49	SW	6	bc	29.76	-0.02	53	52	+7	SW	7	ogrm	7	-	53	43	3.9	0.44
		Scilly (St. Mary's)...	30.23	49	SSW	5	0	29.95	-0.03	49	48	+1	SW	7	m	6	0.6	51	46	4.4	0.11
		Jersey (St. Aubins)...	30.36	47	NNW	4	bc	30.20	+0.11	50	48	+2	S	5	ot	4	0.6	52	45	3.6	0.06
		Portland Bill ...	30.26	47	W	5	bc	30.01	+0.08	50	49	+3	SW	7	+	5	0.6	50	45	*	0.17
		Dungeness ...	30.19	41	NNW	3	0	30.11	+0.16	46	46	0	SW	8	+	4	0.6	48	36	*	0.05
		Wick ...	29.70	38	N	3	c	28.94	-0.44	43	42	+1	S	8	cu	5	0.6	43	33	*	0.40
		Nairn ...	29.76	37	W	3	0	28.95	-0.43	44	43	+6	WSW	4	bc	2	-	44	36	*	0.51
		Aberdeen ...	29.81	37	SW	3	0	29.11	-0.29	43	42	+1	S	6	ogt	6	0.6	44	36	0.7	0.47
		Leith ...	29.89	40	S	1	0	29.24	-0.25	54	52	+11	SW	5	0	*	-	54	34	*	0.15
		North Shields ...	29.95	40	W	3	0	29.41	-0.22	46	45	+4	SW	5	c	2	0.6	46	37	*	0.09
FRANCE.		Spurn Head ...	29.99	42	W	6	0	29.60	-0.15	43	43	+1	S	8	ogt	4	0.6	44	37	*	0.20
		Yarmouth ...	30.00	43	W	5	bc	29.97	+0.08	43	42	-2	SSW	6	rg	5	0.6	47	36	*	0.14
		Loughborough ...	30.11	40	WSW	2	0	29.78	-0.02	46	45	+4	SSW	7	og	*	0.6	46	38	*	0.20
		Oxford ...	30.23	39	WSW	2	c	29.91	+0.01	47	46	+4	S	4	ogt	*	0.6	47	38	*	0.09
		London (Brixton)	30.19	46	W	2	0	30.02	+0.09	45	43	+1	SSW	7	ogp	*	0.6	48	38	1.9	0.07
		The Scaw (Skagen)	29.95	36	S	4	f	29.95	-0.16	37	37	+1	SW	2	f	0	-	37	34	*	0.04
		Fanö ...	29.99	35	SSW	1	c	30.04	-0.08	35	34	+2	SSW	2	f	*	-	37	32	*	0.08
		Cuxhaven ...	30.02	37	SSW	3	+	30.13	-0.05	34	34	-1	SW	1	rf	*	-	39	34	*	0.12
		The Helder ...	29.96	40	WSW	4	c	30.11	+0.14	38	37	-1	SSW	4	c	2	-	41	37	*	0.16
		Brussels ...		*	*	*	*	30.32	+0.19	35	34	-5	SSW	3	c	*	-	42	34	*	0.12
SPAN. & PEN.		Berlin ...	30.14	23	SSE	1	0	30.21	-0.15	32	32	+17	SSW	1	f	*	-	32	15	*	-
		Frankfurt ...	30.26	30	SW	1	0	30.39	+0.06	34	33	+10	SW	2	f	*	-	36	24	*	0.16
		Munich ...	30.26	9	Z	0	m	30.41	+0.07	33	33	+27	W	5	c	*	-	36	6	*	0.08
		C. Gris Nez ...	30.21	45	W	5	bc	30.16	+0.11	44	44	0	SW	7	+	6	-	53	41	*	0.16
		Brest ...	30.36	49	NNW	4	0	30.20	+0.06	53	52	+4	SW	5	0	6	-	53	48	*	0.04
		Lorient ...	30.41	48	NW	3	0	30.28	+0.08	54	54	+4	NNW	6	0	5	-	54	48	*	-
		Rochefort ...	30.41	48	NNW	3	bc	30.45	+0.21	46	45	0	S	3	0	*	0.6	50	39	*	0.04
		Biarritz ...	30.54	51	Z	0	c	30.53	+0.12	48	47	-2	SW	2	c	5	-	54	48	*	0.12
		Paris ...	30.32	41	W	3	0	30.42	+0.22	34	33	-3	S	3	0	*	-	48	31	*	0.08
		Belfort ...	30.32	35	WSW	4	+	30.50	+0.14	35	34	+12	WSW	2	m	*	-	39	23	*	0.08

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR Tuesday 16th December, 1902.

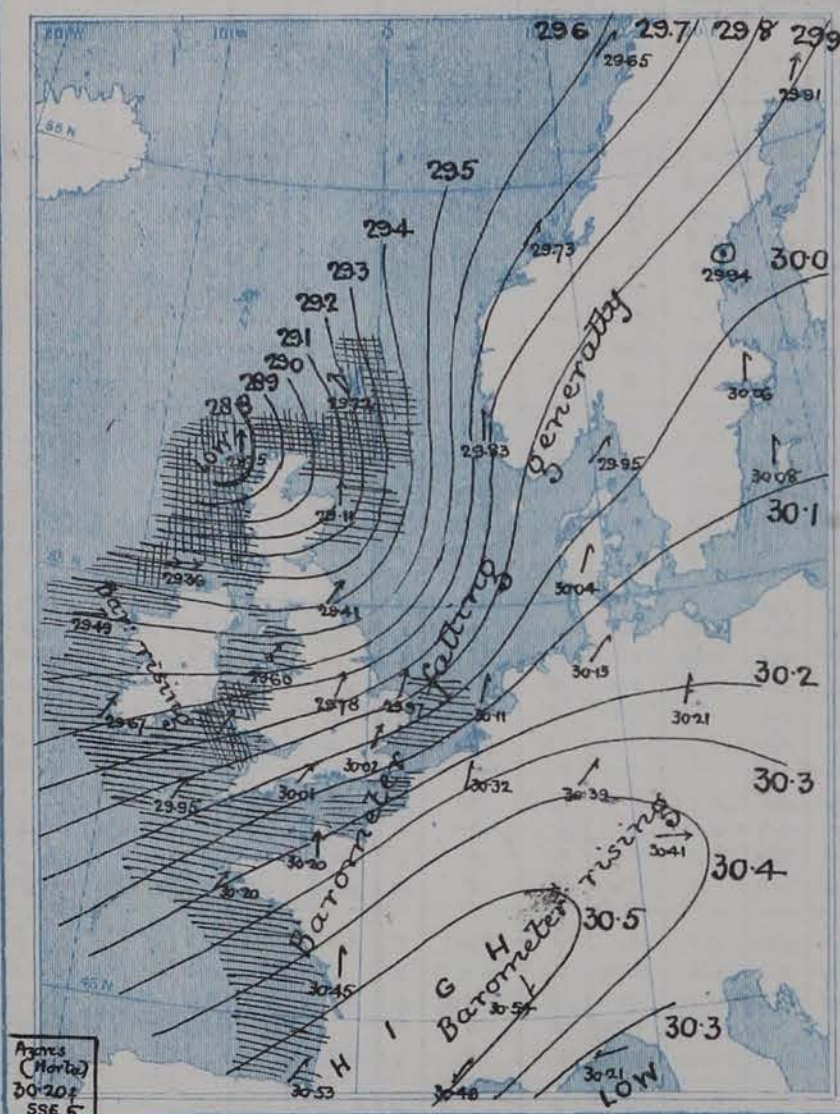
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

SEA.— Rough High

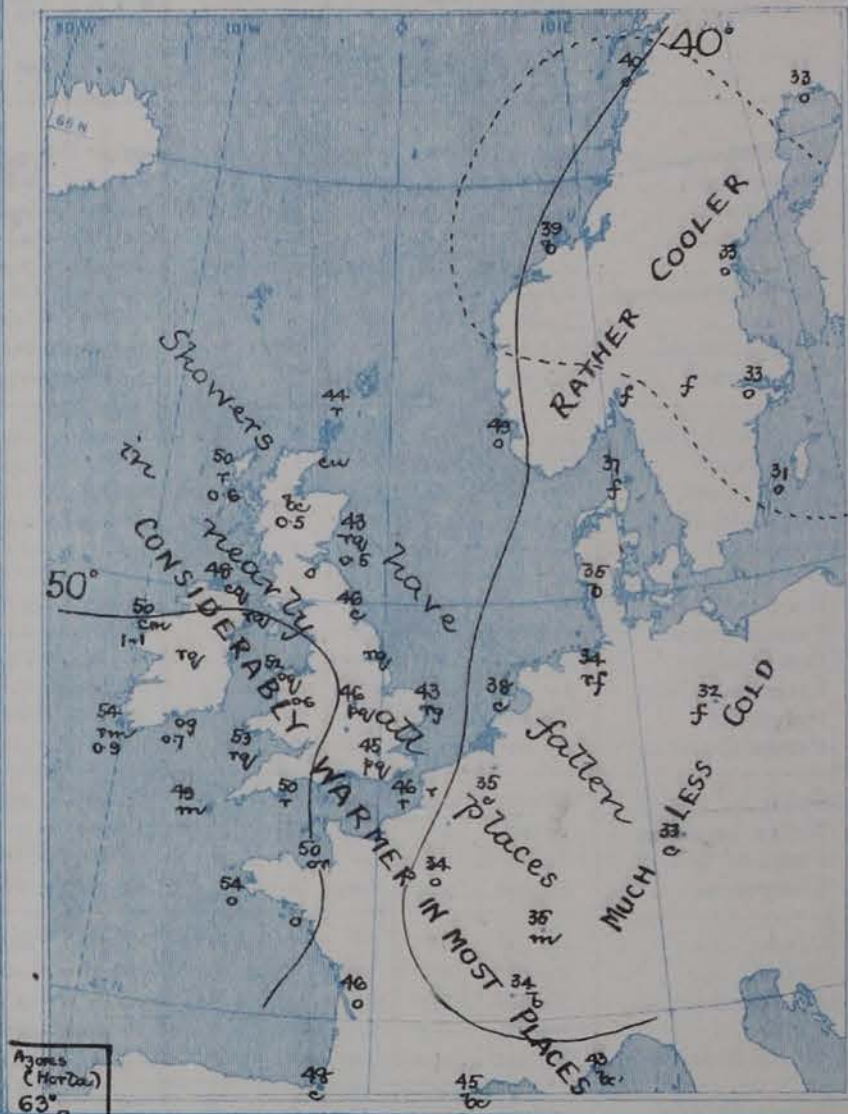


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

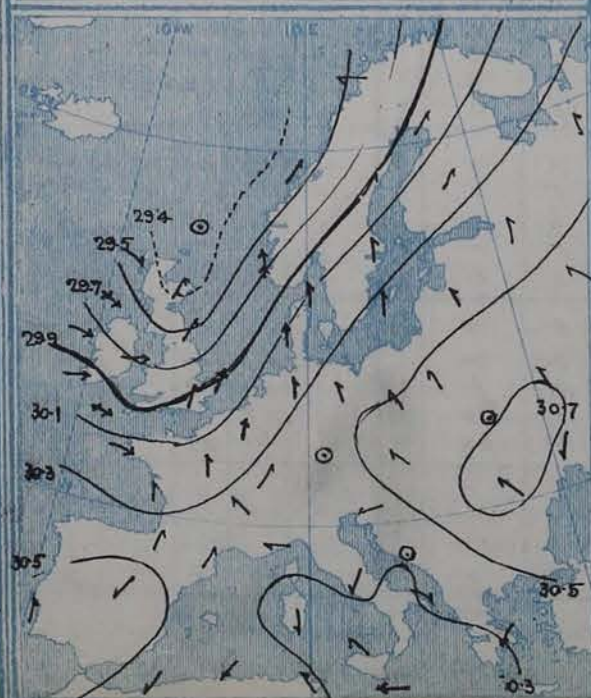
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



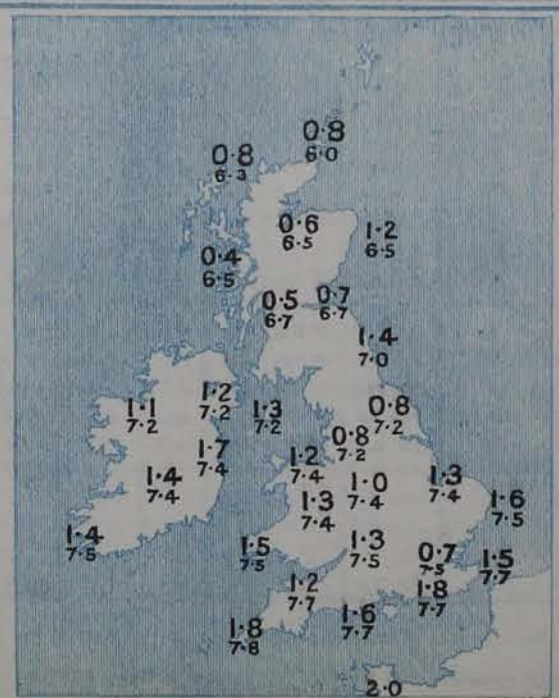
III. BAROMETER AND WIND

Yesterday morning.



IV. Means of Daily Recorded BRIGHT SUNSHINE (1881-1900), together with Means of Possible Duration, for DECEMBER.

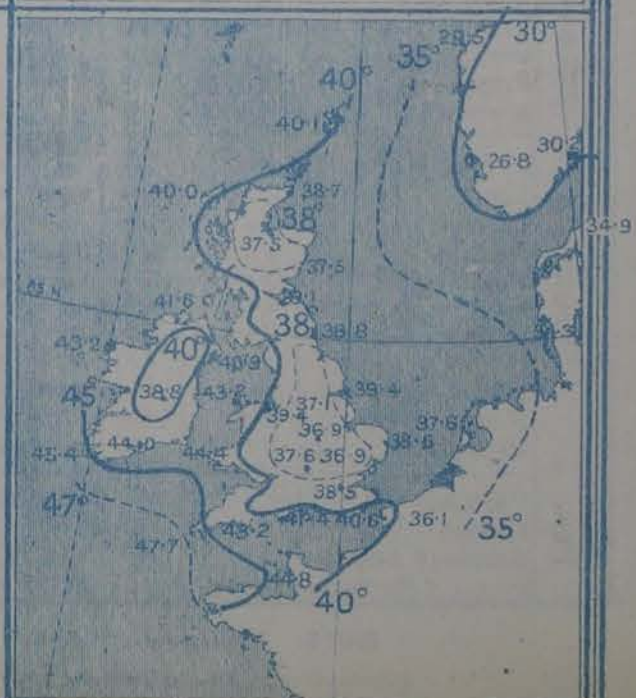
Specimen. { Average No. of Hourly daily } 0.8
(for Stornaway) { Total Possible } 6.3



V. Means of DAILY TEMPERATURE

at 8 A.M. for the monthly period

DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure is now highest over Germany and the southern departments of France, and lowest on our extreme north-west coasts. The readings range from 30.5 in. and upwards over the more southern parts of France to 30.03 in. at Wisby and 29.73 in. at Christiansund, to 28.75 in. and less in a deep cyclonic disturbance which has reached our extreme north-west coasts from the south-westward. The mercury is still falling over Great Britain and the Scandinavian Peninsula, but is rising over Germany and the south-west of France and has begun to rise again in Ireland. Gradients are very steep over our Islands and the North Sea.

WIND

TEMPERATURE

WEATHER

AND

SEA

Strong W^{ly} winds or gales consequently prevail over Ireland, and S.W.^{ly} or S^{ly} winds of equal strength over Great Britain, while in the Shetlands there is a moderate gale from the S.E.^{ly}. Over the Continent the winds are more moderate and mainly from some S^{ly} point. Temperature has risen again in most parts of our Islands - quickly in the west - and a very rapid rise has taken place in Germany; at Munich the change since 8 a.m. yesterday is 27°. The readings at present range from 55° or 54° at several Irish stations to 43° on our north-east and south-east coasts, 40° at Bodø, 34° at Paris and to 31° at Wisby. The weather continues in a very dull and unsettled condition generally, with squalls and rain in most parts of the United Kingdom and with fog in the south of Scandinavia and north of Germany. The sea is rough or rather so on most parts of our coasts and in the Bay of Biscay, and high at some northern and western stations.

Rain has again been very general over our Islands and France and rain or snow has fallen in Denmark and Germany. At many of our northern and western stations the fall has been heavy - about an inch in the west of Ireland. Maximum temperatures of 50° and above were again recorded over our western and southwestern districts, and also at Leith. A fair amount of bright sunshine was registered in the west and south, and a lunar halo was observed very generally at night.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbance in the north-west will probably travel away in a north-easterly direction, but with the present distribution of pressure it is likely to be soon followed by other systems which will cause a continuance of mild S^{ly} to W^{ly} winds and unsettled weather.

FORECASTS *

For the 24 hours ending at NOON on 17th December, 1902

DISTRICTS

FORECASTS.

- 0 $\overline{\text{N}}$ SCOTLAND NORTH
- 1 $\overline{\text{N}}$ SCOTLAND EAST
- 2 $\overline{\text{N}}$ ENGLAND N.E.
- 3 $\overline{\text{N}}$ ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 $\overline{\text{N}}$ ENGLAND SOUTH

S^{ly} to W^{ly} strong winds and gales, subsiding gradually; squally, rain at times.

Strong winds and gales from between S. and W; squally, occasional rain.

Mild to-day, cooler to-morrow.

DISTRICTS.

FORECASTS.

- 6 $\overline{\text{N}}$ SCOTLAND WEST
- 7 $\overline{\text{N}}$ ENGLAND N.W.
- 8 $\overline{\text{N}}$ ENGLAND S.W.
- 9 $\overline{\text{N}}$ IRELAND NORTH
- 10 $\overline{\text{N}}$ IRELAND SOUTH

Strong winds or gales from between W. and S; very unsettled, rain at times.

Temperature changing fitfully.

WARNINGS

(At 7.10 p.m. to parts of districts 0 and 1, Hoist South Cone, and at 9.30 a.m. to districts 7, 8 and parts of 5 and 9, Keep up South Cone. It is still up on all coasts.

Note.—The South Cone, point downwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards ($\overline{\text{N}}$), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °.	Min. °.		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc, b	*	+	46	36	3.0	0.10
Newton Reigny (Penrith)	29.99	44	S 2	0	29.46	-11	45	45	+5	S 4	rgm	*	0, c, g, r	47	36	0.0	0.39
Bath	30.21	43	S 2	0	29.90	+0.1	52	50	+8	S 6	0	*	-	52	36	3.5	0.16

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	55	40	0, b, r	3.4	0.24	Worthing	*	*	*	4.5	*
Birmingham, 9 p.m. ...	51	37	0, r, c	1.7	0.15	Llandudno	*	*	*	0.7	*
Lowestoft, up to 6 p.m. ...	46	41	0, c, b	3.3	0.04	Rhyl up to 6 p.m. ...	*	*	*	2.8	*
Hastings	*	*	*	5.2	*	Southport, 9 p.m. ...	53	38	0, c, 0	0.2	0.50
Eastbourne up to 6 p.m. ...	*	*	*	4.5	*	Manchester, 9 p.m. ...	55	36	p, r, b, c	0.0	0.24
Brighton	*	*	*	1.9	*	Darwen, 9 p.m. ...	51	34	0, r, r, c, m	0.0	0.82
						Plymouth	53	44	r, b, c	3.0	0.27

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 15. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS. 15. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira (Funchal)	64	48	c	Ins.	Algiers	59	54	+	2.62
Madrid	52	35	f	-	Tunis	61	54	0	-
Corsica (I. Sanguinaires) ...	55	43	m	-	Vienna	16	9	S	0.04
Rome	51	39	0	-	St. Petersburg	25	14	?	-
Florence	50	30	b	-	Lugano	1 p.m.			Measured 7 a.m.
Trieste	46	34	b	-	Davos				
Naples	53	44	0	-	Lucerne				
Palermo	63	47	0	-	Lausanne				
Malta	59	58	0	0.04					

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

	16. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
		h. m.	h. m.	h. m.
Yarmouth		8.1	11.49	3.36
Greenwich		8.2	11.56	3.49
Wick		9.0	12.8	3.15
Valencia		8.46	12.37	4.27

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 17th December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)						THIS MORNING. (See note on last page.)										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.		BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.		
		At 33° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather.	At 33° Fair. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Max.			Min.					
																			ins.			ins.	°
SCANDINAVIA.	Haparanda ...	29.79	32	S	4	+	29.45	-.46	27	27	-6	S	6	S	*	-	36	27	*	0.04			
	Hernösand ...	29.69	32	S	4	S	29.28	-.65	33	33	0	S	6	S	*	-	36	32	*	0.16			
	Stockholm ...	29.83	33	S	2	0	29.42	-.64	36	34	+3	S	2	0	*	-	36	30	*	0.04			
	Wisby ...	29.92	35	SW	2	0	29.53	-.55	36	36	+5	SSW	2	+	*	-	36	25	*	-			
	Karlstad ...	29.69	36	SSW	2	0	29.32	-.63	38	37	+3	SSW	2	0	*	OTS	*	*	0.12				
	Färder (X'ania Fjord)	29.55	34	SSE	6	+	29.29	-.63	37	36	+2	W	4	0	4	-	37	34	*	0.08			
	Bodö ...	29.49	38	E	2	0	28.92	-.73	39	35	-1	ESE	4	0	1	-	40	37	*	-			
	Christiansund ...	29.13	42	SSE	4	0	29.10	-.63	40	36	+1	WSW	5	0	4	-	43	39	*	-			
	Skudesnaes ...	29.35	46	E	6	0	29.32	-.51	42	41	+2	SW	2	0	5	7,0	46	37	*	-			
	Sumburgh Head	29.14	45	WSW	8	0	29.21	-.01	41	38	-3	WSW	5	0	6	0	45	35	*	0.42			
BRITISH ISLANDS.	Stornoway ...	29.41	41	W	2	0	29.51	+.76	38	36	-12	WNW	5	0	5	0, 0	50	37	0.6	0.18			
	Malin Head ...	29.57	45	W	2	0	29.77	+.41	43	42	-5	WNW	7	0	6	0, 0	48	42	*	0.17			
	Blacksod Pt. ...	29.59	48	SW	3	0	29.91	+.42	45	42	-5	WNW	5	0	4	0	50	45	*	0.27			
	Valencia ...	29.75	55	SW	6	0	30.01	+.34	45	44	-9	NNW	1	0	4	0, 0	56	45	0.0	0.25			
	Roche's Point ...	29.78	55	WSW	5	0	29.97	+.24	48	47	-6	NNW	3	0	2	0	55	47	*	0.08			
	Parsonstown ...	29.66	53	SW	2	0	29.95	+.37	44	43	-10	SW	1	0	*	0	55	43	0.0	0.29			
	Donaghadee ...	29.62	54	W	1	0	29.79	+.41	44	43	-11	NW	2	0	3	-	55	43	*	0.23			
	Liverpool Obsy.	29.70	51	WSW	3	0	29.84	+.22	45	44	-7	W	4	0	4	0	55	44	*	0.17			
	Holyhead ...	29.69	52	WSW	4	0	29.86	+.26	47	46	-5	WNW	4	0	3	0	52	46	*	0.19			
	Pembroke (St. Ann's)	29.83	53	WSW	7	0	29.96	+.20	49	48	-4	NNW	5	0	6	0	54	49	0.0	0.10			
GERMANY, &c.	Scilly (St. Mary's) ...	29.97	55	WSW	7	0	30.08	+.13	54	52	+5	WSW	7	0	6	0	56	49	0.0	0.03			
	Jersey (St. Aubins) ...	30.14	54	WSW	7	0	30.24	+.04	53	52	+3	WSW	7	0	6	0	55	49	0.0	0.04			
	Portland Bill ...	29.97	51	WSW	7	0	30.03	+.02	51	50	+1	W	8	0	7	0	52	48	*	0.07			
	Dungeness ...	29.93	51	WSW	6	0	29.93	-.18	51	50	+5	WSW	8	0	5	0	51	46	*	0.07			
	Wick ...	29.37	38	NW	6	0	29.43	+.49	36	35	-7	NW	6	0	4	-	44	34	*	0.05			
	Nairn ...	29.46	41	W	1	0	29.53	+.58	37	36	-7	W	2	0	2	-	50	36	*	0.04			
	Aberdeen ...	29.48	43	SW	2	0	29.54	+.43	39	35	-4	W	4	0	2	0	49	36	3.8	-			
	Leith ...	29.55	46	WSW	3	0	29.64	+.40	43	40	-11	W	3	0	*	-	54	42	*	0.11			
	North Shields ...	29.62	50	SW	2	0	29.66	+.25	45	43	-1	WSW	3	0	2	0	54	43	*	0.27			
	Spurn Head ...	29.67	52	SW	5	0	29.70	+.10	46	46	+3	W	4	0	3	-	53	43	*	0.01			
FRANCE.	Yarmouth ...	29.76	53	SW	4	0	29.73	-.24	55	53	+12	WSW	6	0	4	0	55	40	*	0.01			
	Loughborough ...	29.74	54	SW	6	0	29.77	-.01	54	53	+8	W	7	0	4	0	56	46	*	0.02			
	Oxford ...	29.86	54	SW	5	0	29.92	+.01	55	53	+8	WSW	6	0	4	0	55	47	*	0.04			
	London (Brixton) ...	29.87	55	SW	5	0	29.91	-.11	55	53	+10	W	7	0	4	0	56	45	0.0	0.02			
	The Scaw (Skagen) ...	29.54	38	SW	6	+	29.38	-.57	40	39	+3	SW	3	0	1	-	41	36	*	0.08			
	Fanö ...	29.69	38	SSW	5	0	29.42	-.62	37	37	+2	SSW	4	0	*	-	39	34	*	0.32			
	Cuxhaven ...	29.88	38	SSW	6	+	29.59	-.54	43	43	+9	SW	6	0	*	-	43	34	*	0.36			
	The Helder ...	29.78	41	SW	6	+	29.67	-.44	46	45	+8	SW	6	0	4	-	46	38	*	0.28			
	Brussels ...	*	*	*	*	*	30.06	-.26	50	49	+15	WSW	6	0	*	-	50	35	*	0.32			
	Berlin ...	30.12	35	SSW	1	0	29.79	-.42	37	37	+5	SSW	2	0	*	-	37	32	*	0.12			
SPAN. PEN.	Frankfurt ...	30.23	36	SW	4	+	30.06	-.33	42	41	+8	SW	2	0	*	-	43	34	*	0.26			
	Munich ...	30.39	32	W	4	0	30.18	-.23	38	37	+5	W	6	0	*	-	39	30	*	0.20			
	C. Gris Nez ...	30.20	53	SW	5	f	30.29	+.09	55	54	+2	WNW	5	f	5	-	55	42	*	-			
	Brest ...	30.36	53	SSW	4	+	30.43	-.02	52	51	+6	W	4	0	*	0, 7	56	48	*	0.08			
	Lorient ...	30.56	55	SW	3	0	30.62	+.09	55	54	+7	SSW	3	0	5	-	55	48	*	-			
	Biarritz ...	30.44	53	SW	3	0	30.47	-.02	57	52	+12	NW	3	0	*	-	56	45	*	-			
	Paris ...	30.24	46	SSW	4	0	30.25	-.17	52	50	+18	SW	4	0	*	-	9	9	*	0.08			
	Belfort ...	30.43	37	WSW	2	0	30.30	-.20	43	43	+8	SW	6	0	*	-	43	35	*	0.32			
	Lyons ...	30.52	39	E	1	0	30.48	-.06	37	37	+3	NE	1	f	*	-	45	34	*	0.04			
	Nice ...	30.33	45	E	2	0	30.37	+.16	42	36	-1	E	1	0	1	-	55	41	*	-			
Perpignan ...	30.44	53	NW	3	0	30.47	-.02	57	52	+12	NW	3	0	*	-	56	45	*	-				
SPAN. PEN.	Corunna ...																		*	-			
	Lisbon ...																		*	-			
	Azores (P. Delgada)																		*	-			
" (Horta)	30.15	64	SSE	5	0	30.13	-.07	62	60	-1	SSE	6	0	5	-	64	61	*	-				

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Wednesday, 17th Dec^r 1902.*

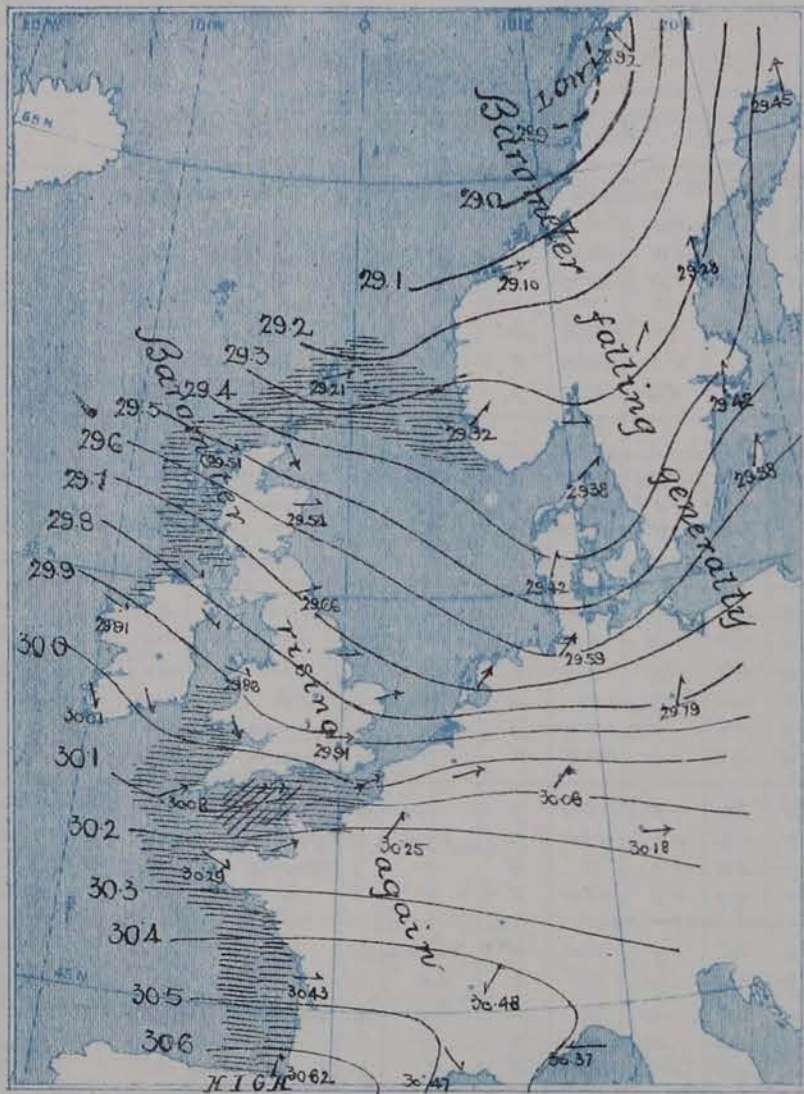
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

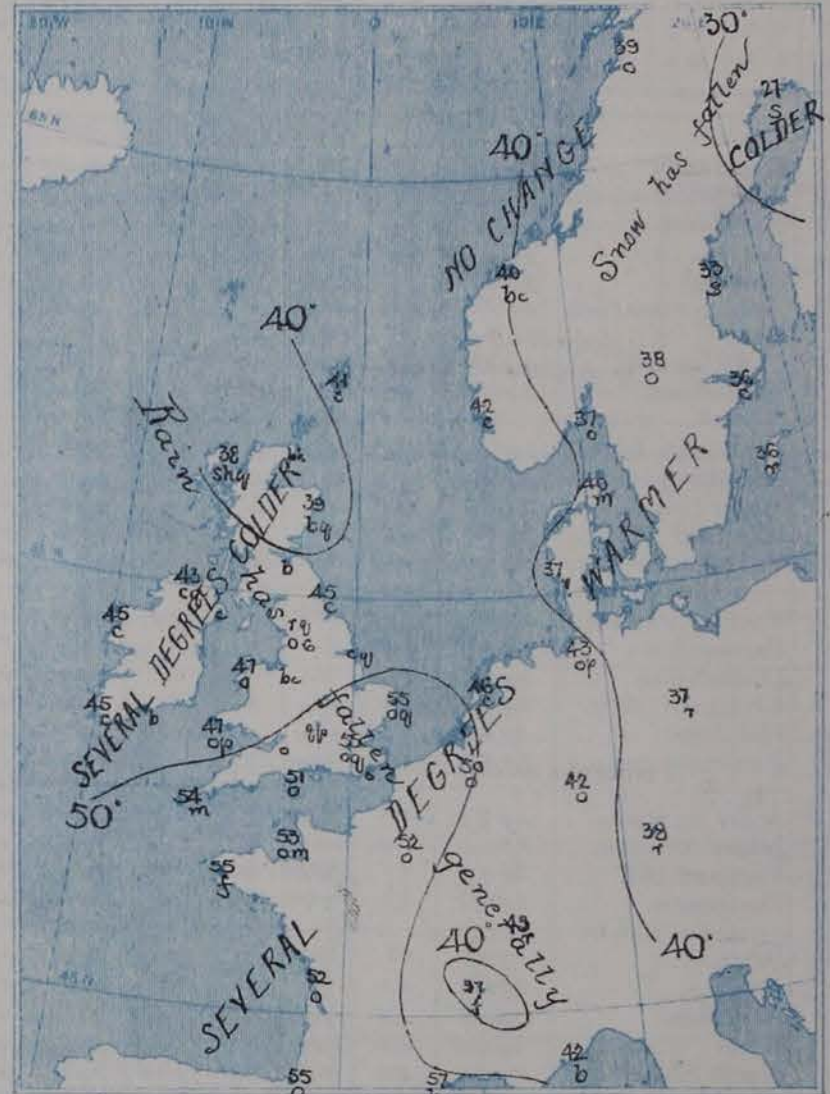


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

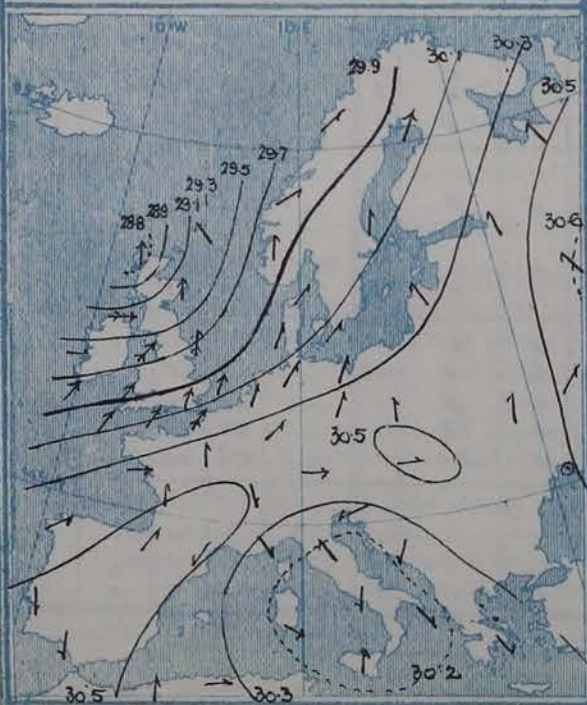
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: .06

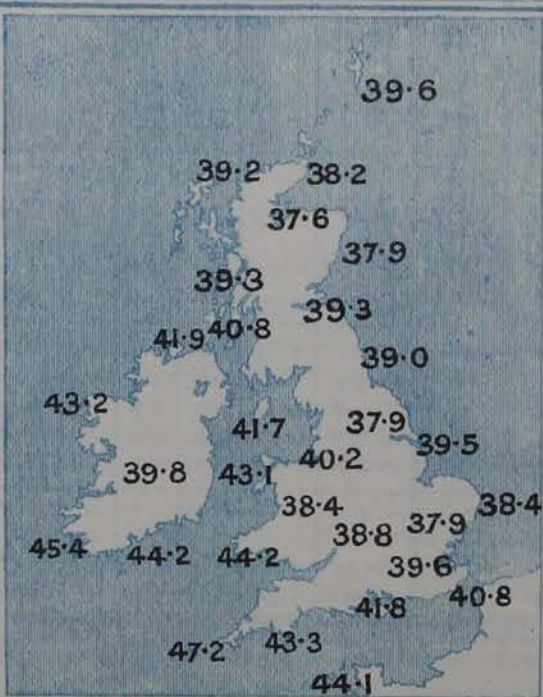


III. BAROMETER AND WIND

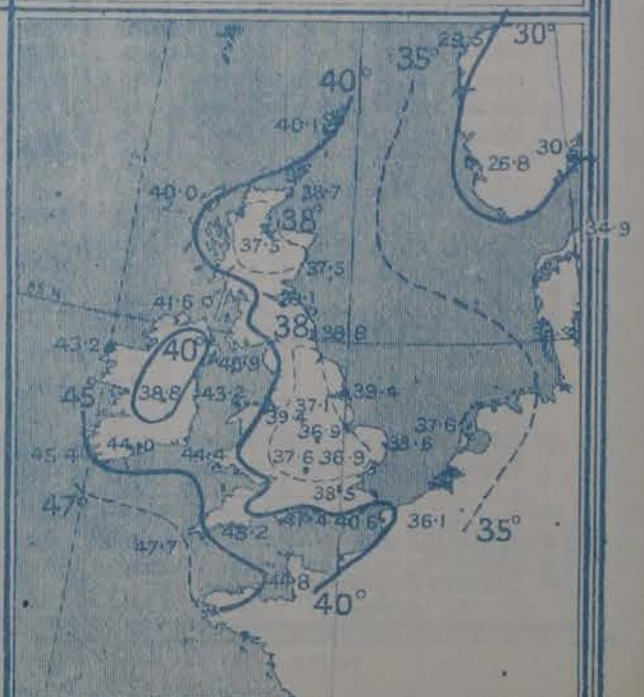
Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the monthly period DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure this morning is highest over the southern half of France, and lowest over the west of Lapland and the neighbouring parts of the Atlantic. The individual readings vary from 30.62 in. at Biarritz to 29.92 in. at Bodø, but between these positions the gradients are very irregular owing to small local disturbances, secondary to the main system in the north.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind, after blowing hard from S.W., has now become W^{ly} in nearly all parts of our Islands, and, though moderate in many places, is blowing a gale in the English Channel and at Malin Head; in the south of Ireland it is light from N.W.W. and at Bodø it is S.E.^{ly}. Temperature has risen over England, France and all the more eastern countries, but has begun to fall again in Ireland and Scotland. It now ranges from 57° at Bath and 55° in London, to 44° at Parsonstown and 36° at Wick. The readings in the south of England are very much above the average; to the eastward of the North Sea the readings are several degrees lower. Gloomy, squally weather is prevalent over England, the north of France, the Netherlands and north-west Germany, snow squalls in the north of Scotland, but finer weather in Ireland. The sea is very rough in the Channel and in the extreme north; moderate in the east and in the far west.

Rain has fallen generally. Bright sunshine has been very deficient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The wind is likely to veer to N.W. temporarily, very generally, with a considerable fall of temperature. Some cold showers are probable in the north, north-west and north-east.

FORECASTS *

For the 24 hours ending at NOON on 18th December, 1902

DISTRICTS.

FORECASTS.

- 0  { SCOTLAND NORTH
- 1  { SCOTLAND EAST
- 2  { ENGLAND N.E.
- 3  { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5  { ENGLAND SOUTH

Wind veering to N.W. and moderating; cooler, finer.

DISTRICTS.

FORECASTS.



- 6  { SCOTLAND WEST
- 7  { ENGLAND N.W.
- 8  { ENGLAND S.W.
- 9  { IRELAND NORTH
- 10  { IRELAND SOUTH

Wind veering to N.W. and moderating; cooler, finer.

N.W.^{ly} winds, moderate to light; fine, cool, Probably backing to S.W. again later.

WARNINGS

At 7.10 p.m. to districts 2, 3, 6, 9 and part of 5, "Keep up Cone". The signals are still flying on all coasts.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.									PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine Hrs.	Rainfall Ins.	
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °			
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	0	54	42	0.0	—	
Newton Reigny (Penrith)	29.59	40	SE 2	0	29.73	+27	44	42	-1	W 4	097	*	097	53	40	0.0	0.60	
Bath	29.88	55	S 6	+	29.92	+0.02	57	54	+5	S 7	0	*	—	57	52	0.0	0.27	

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	54	27	b, c, op	0.0	0.29	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	54	36	o, r	0.0	0.20	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	53	36	b, c, o	0.0	0.15	Rhyl up to 6 p.m. ...	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	53	40	o, c, o	0.0	0.42
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	54	37	ot	0.0	0.47
Brighton	*	*	*	?	*	Darwen, 9 p.m. ...	51	34	1, o2	0.0	1.30
						Plymouth	54	45	079	0.0	0.29

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
16. XII. 02									
Madeira (Funchal)	64	50	c c	Ins.	Algiers	61	52	o o	0.12
Madrid	Not rec'd				Tunis	59	50	o o	—
Corsica (I. Sanguinaires) ...	57	41	f f	—	Vienna	16	3	s o	0.04
Rome	50	34	f o	—	St. Petersburg	27	14	m o	—
Florence	47	33	o o	—	15. XII. 02				
Trieste	45	32	b o	—	Lugano	39	—	b	Measured 7 a.m.
Naples	50	45	o o	—	Davos	28	—	b	—
Palermo	65	47	m o	—	Lucerne	28	—	bc	—
Malta	60	54	? bc	—	Lausanne	32	—	m	—

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

17. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8. 2	11. 49	3. 36
Greenwich	8. 3	11. 56	3. 49
Wick	9. 1	12. 8	3. 15
Valencia	8. 47	12. 27	4. 27

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

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" Weekly " " " £1 10 0 " Single Copies, 6d.

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FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 18th December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.		
		At 32° and M.S.L.	Ins.	Dry Bulb.	Direc.		Force (0 to 12.)	Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.			Force (0 to 12.)	Weather.			Max.	Min.
SCANDINAVIA.	Haparanda ...	29.26	23	S	6	S	29.27	-18	19	19	-8	S	4	0	*	-	32	19	*	0.12		
	Hernösand ...	29.18	27	Z	0	bc	29.29	+0.01	22	21	-11	Z	0	0	*	-	34	22	*	-		
	Stockholm ...	29.14	33	WNW	2	S	29.37	-0.05	30	28	-6	W	2	0	*	-	36	29	*	0.20		
	Wisby ...	29.10	35	W	4	+	29.38	-15	35	34	-1	NW	6	0	*	-	37	28	*	0.43		
	Karlstad ...	29.28	32	Z	0	0	29.43	+1.11	26	25	-12	NW	2	0	*	-	*	*	*	-		
	Färder (X'iania Fjord)	29.39	36	WSW	4	0	29.43	+1.14	35	35	-2	WSW	5	0	3	-	37	34	*	-		
	Bodö ...	28.96	34	S	4	0	29.01	+0.09	33	31	-6	WSW	6	bc	3	-	39	32	*	-		
	Christiansund ...	29.22	40	SW	7	+	29.18	+0.08	41	37	+1	SW	5	0	5	-	41	36	*	0.59		
	Skudesnaes ...	29.57	41	NW	6	bc	29.45	+1.13	42	39	0	WSW	4	bc	4	0, bc	43	36	*	-		
	Sumburgh Head ...	29.42	42	WSW	5	C	29.18	-0.03	40	40	-1	SW	4	+	5	C	43	37	*	0.63		
BRITISH ISLANDS.	Stornoway ...	29.60	40	WSW	2	+	29.35	-1.16	39	38	+1	WNW	5	tg	5	tg, bc, +	43	36	1.9	0.49		
	Malin Head ...	29.82	42	W	7	og	29.63	-1.14	41	41	-2	WNW	8	og	6	bc, og	45	41	*	0.15		
	Blacksod Pt. ...	29.81	46	SW	5	tm	29.91	0.00	46	43	+1	WNW	8	og	6	og, tm	49	42	*	0.23		
	Valencia ...	29.92	53	WSW	4	om	30.15	+1.14	48	45	+3	W	8	cu	6	om	53	43	0.3	0.31		
	Roche's Point ...	29.92	50	S	2	ot	30.10	+1.13	47	45	-1	WNW	5	bc, og	5	0, ot	52	46	*	0.28		
	Parsonstown ...	29.93	45	SE	1	+	29.98	+0.03	43	41	-1	W	8	og	*	+	50	41	0.1	0.28		
	Donaghadee ...	29.94	42	SW	2	0	29.70	-0.09	43	40	-1	WNW	4	og	3	-	46	41	*	0.09		
	Liverpool Obsy. ...	29.98	45	W	2	0	29.81	-0.03	45	42	0	W	7	+	6	bc, +	48	41	*	0.26		
	Holyhead ...	30.00	46	SW	2	ogm	29.86	0.00	47	45	0	W	8	og	6	ogm	47	44	*	0.24		
	Pembroke (St. Ann's)	30.01	52	S	2	+	30.04	+0.08	50	45	+1	W	7	ogm	6	mt	53	47	1.6	0.41		
GERMANY, &c.	Scilly (St. Mary's) ...	30.13	54	SW	7	f	30.17	+0.09	52	50	-2	WNW	7	cp	6	m, f	57	49	0.0	0.02		
	Jersey (St. Aubins) ...	30.14	51	W	6	f	30.01	-0.02	49	46	-2	WNW	9	og	6	f, +	52	46	*	0.02		
	Portland Bill ...	30.12	48	SSW	1	0	29.98	+0.05	47	46	-4	W	5	og	4	0	51	47	*	0.25		
	Wick ...	29.61	38	NW	5	C	29.30	-1.13	38	37	+2	NW	5	ptsw	3	-	41	35	*	0.12		
	Nairn ...	29.67	37	W	1	bc	29.38	-1.15	38	38	+1	W	1	+	1	-	41	35	*	0.12		
	Aberdeen ...	29.72	37	SW	2	0	29.35	-1.19	38	37	-1	W	4	og	2	bc, +	42	36	3.1	0.17		
	Leith ...	29.82	42	WSW	3	0	29.49	-1.15	42	40	-1	WSW	4	bc	*	-	46	39	*	-		
	North Shields ...	29.90	43	SW	1	om	29.54	-1.12	43	41	-2	WSW	6	cp	2	ogm, +	45	39	*	0.03		
	Spurn Head ...	29.99	44	WSW	3	C	29.66	-0.04	45	43	-1	W	7	bc	4	-	47	40	*	0.18		
	Yarmouth ...	30.00	47	W	4	C	29.74	+0.01	46	44	-9	WNW	5	bc	5	bc, C	55	40	*	0.18		
FRANCE.	Loughborough ...	30.06	45	SW	2	0	29.83	+0.06	45	41	-9	W	7	og	*	ogm, bc	54	41	*	0.22		
	Oxford ...	30.02	47	N	1	+	29.95	+0.03	47	42	-8	W	5	og	*	+	55	46	*	0.35		
	London (Brixton) ...	30.11	50	W	3	0	29.93	+0.02	48	43	-7	W	4	0	*	og, og	57	47	0.0	0.55		
	The Scaw (Skagen) ...	29.43	39	NW	4	0	29.50	+1.12	38	37	-2	WNW	4	0	1	-	41	37	*	0.24		
	Fanö ...	29.78	37	W	6	bc	29.65	+1.23	35	35	-2	W	2	0	*	-	41	35	*	0.08		
	Cuxhaven ...	29.82	40	WNW	4	0	29.72	+1.13	34	34	-9	SW	2	bc	*	-	46	34	*	0.08		
	The Helder ...	29.77	40	W	4	bc	29.71	+0.04	37	37	-9	SSW	1	+	2	-	46	37	*	0.16		
	Brussels ...	29.88	40	W	4	0	29.88	-1.18	50	48	0	WSW	5	C	*	-	52	44	*	0.75		
	Berlin ...	29.83	43	W	5	0	29.78	-0.01	36	36	-1	W	1	0	*	-	48	36	*	0.20		
	Frankfurt ...	30.10	49	SW	4	0	29.83	-2.23	40	40	-2	N	2	+	*	-	52	39	*	0.71		
SPAN. PEN.	Munich ...	30.17	46	SW	8	+	29.94	-2.24	49	46	+11	SW	8	0	*	-	50	37	*	0.16		
	C. Gris Nez ...	30.15	48	S	4	0	29.93	-0.07	49	48	-1	WSW	7	0	7	-	52	46	*	0.79		
	Brest ...	30.34	54	W	4	f	30.31	+0.02	54	51	-1	NW	4	0	5	-	55	52	*	0.04		
	Lorient ...	30.41	54	W	5	f	30.30	-0.05	54	54	0	WSW	5	0	5	-	55	50	*	-		
	Rochefort ...	30.48	53	WSW	4	0	30.41	-0.02	54	52	+2	SW	5	0	*	0	55	48	*	-		
	Biarritz ...	30.66	56	SW	3	0	30.64	+0.02	57	55	+2	SW	3	0	5	-	57	50	*	0.04		
	Paris ...	30.33	53	WSW	4	0	30.13	-1.12	54	50	+2	WSW	5	0	*	-	56	52	*	-		
	Belfort ...	30.33	48	WSW	5	+	30.17	-1.13	48	48	+5	WSW	5	m	*	-	49	43	*	0.16		
	Lyons ...	30.52	40	WSW	1	0	30.45	-0.03	48	48	+11	N	1	f	*	-	48	37	*	-		
	Nice ...	30.29	44	E	1	0	30.21	-1.16	42	38	0	ESE	1	bc	1	-	54	39	*	-		
Perpignan ...	30.49	58	NW	4	bc	30.47	-0.00	56	?	-1	NW	3	bc	*	-	62	52	*	-			
SPAN. PEN.	Corunna ...														*	-			*	-		
	Lisbon ...														*	-			*	-		
SPAN. PEN.	Azores (P. Delgada)														*	-			*	-		
	" (Horta)	30.30	64	SE	5	0	30.38	+2.25	63	61	+1	ESE	6	0	5	-	64	62	*	-		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR Thursday, 18TH DECEMBER, 1902.

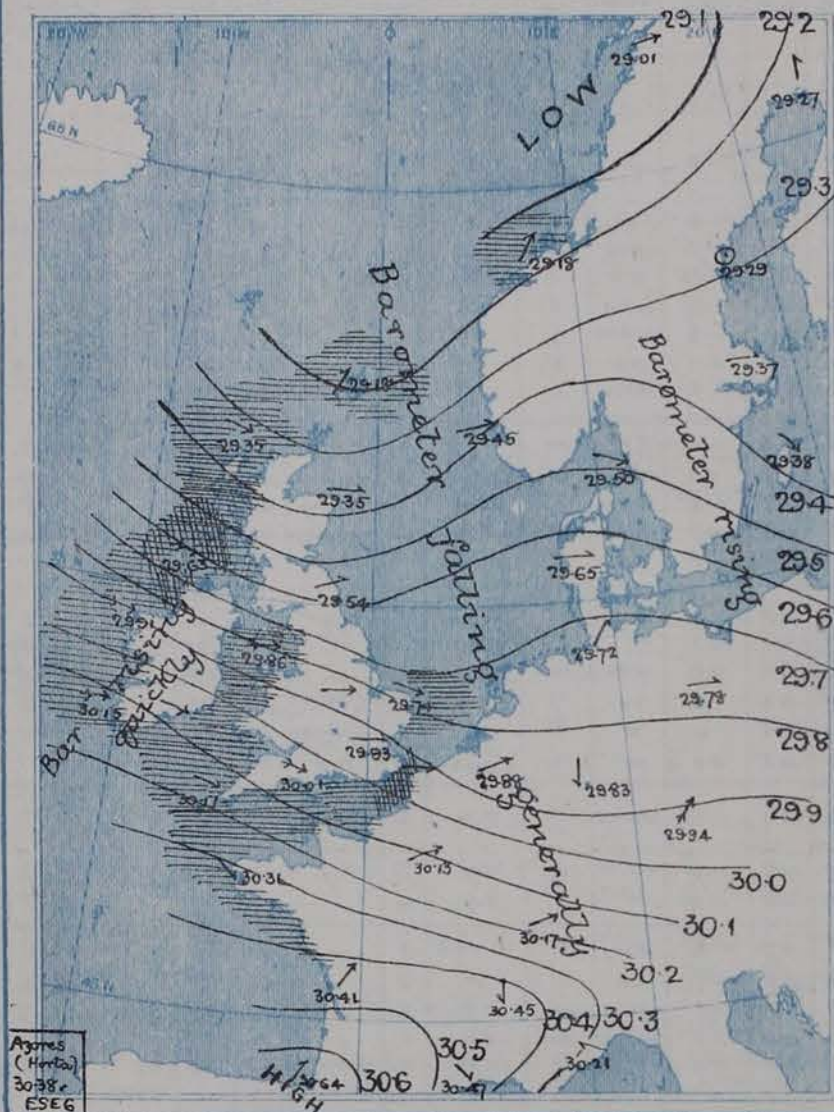
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough High



II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus — 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the monthly period DECEMBER. (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The general distribution of pressure remains practically unchanged, the barometer being still highest, 30.6 ins. and upwards, over the south-west of France, and lowest, 29.0 ins. and less, in a cyclonic area off the north-west of Norway. Small secondary disturbances, however, have passed across our Islands during the night, and are now lying over various parts of the North Sea and Germany, and the barometric gradient over the United Kingdom and France is steeper than it was yesterday. The mercury is now rising in the west and south of our Islands and also in Sweden, but is falling elsewhere.

WIND

W¹₂ or N.W¹₂ winds prevail over the whole of the United Kingdom, and blow with the force of a gale on most parts of our western and southern coasts; over the western part of the Continent the wind is moderate to fresh from the south-westward.

TEMPERATURE

Temperatures have fallen in most places, but over England, Ireland and France it is still high for the time of year, the morning readings being very little below 50° at our own southern stations, and above that level in the Scilly Islands and in France; in the south of France they are in some cases above 55°. In Scotland the readings are below 40°, and differ but little from the average. Frost has again set in over Sweden, the lowest morning temperatures reported being 19° at Haparanda, and 22° at Hernösand.

WEATHER

Squally, showery weather prevails in nearly all parts of the United Kingdom, and cloudy weather over Germany, the Netherlands and the greater part of France, with rain in several places; over Scandinavia and Denmark the sky is at present clear. The sea is high at Malin Head and Cape Finisterre, and rough, or rather so, on nearly all parts of our own and the French coasts.

AND

SEA

During yesterday the thermometer rose to between 50° and 55° at most of the English and Irish stations, and to 57° in London and at Scilly. Rain has fallen over North-western Europe generally - heavily in many places. Lightning was seen last night at Blackhead Point.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Strong W¹₂ or N.W¹₂ winds are likely to continue throughout the greater part of to-day, but with the existing distribution of pressure it is probable that further cyclonic areas will shortly appear in the west, and cause a return of wind to the S.W. by to-night or tomorrow. Mild weather will probably continue over all our southern districts.

FORECASTS *

For the 24 hours ending at NOON on 19th December, 1902

DISTRICTS.

FORECASTS.

0 $\overline{\pi}$ SCOTLAND NORTH

1 $\overline{\pi}$ SCOTLAND EAST

2 $\overline{\pi}$ ENGLAND N.E.

3 $\overline{\pi}$ ENGLAND EAST

4 { MIDLAND COUNTRIES

5 $\overline{\pi}$ ENGLAND SOUTH

N.W¹₂ winds, strong to a gale at first, but moderating later; squally, some sleet or cold rain.

W¹₂ and N.W¹₂ winds, strong to a gale at first, but moderating later; some showers, with bright intervals.

DISTRICTS.

FORECASTS.

6 $\overline{\pi}$ SCOTLAND WEST

7 $\overline{\pi}$ ENGLAND N.W.

8 $\overline{\pi}$ ENGLAND S.W.

9 $\overline{\pi}$ IRELAND NORTH

10 $\overline{\pi}$ IRELAND SOUTH

W¹₂ and N.W¹₂ winds, strong to a gale at first, but moderating and backing later; squally, showery.

WARNINGS

At 9.40 a.m. to-day to parts of districts 0 and 1, "Hoist North Cone". The signals are still flying in districts 2, 3, 6, 9, 10 and part of 5.

Note.—The South Cone, point downwards ($\overline{\pi}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (π), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.				
	Bar.	Temp.	Wind.	Weather.	Barometer.	Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun-	Rainfall
	Ins.	°			Ins. Change.	Dry.	Wet.	Change.					Max.	Min.	shine.	Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	bc	*	o, t	54	42	0.3	0.55
Newton Reigny (Penrith) ...	29.89	40	SW 2	0	29.63 -10	42	40	-2	NW 6	o, p, g	*	-	45	38	?	0.08
Bath	30.09	49	S 1	0	30.02 +10	47	43	-10	S 5	0	*	-	58	46	0.0	0.53

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	54	41	o, c, b, t	2.3	0.15	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	55	43	t, o, t	0.0	0.20	Llandudno	*	*	*	2.0	*
Lowestoft, up to 6 p.m. ...	56	43	o, p, c, o	1.0	0.01	Rhyl up to 6 p.m. ...	*	*	*	1.8	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	55	43	o, p, c, o, t	0.0	0.13
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	56	42	o, t	0.1	0.04
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	52	39	o, t, c, m	0.0	0.22
						Plymouth 9 p.m. ...	55	52	o, d	0.0	0.10

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
17. XII. 02									
Madeira (Funchal) <i>Not rec.</i>				Ins.	Algiers	61	54	c c	Ins.
Madrid	44	30	m m	—	Tunis	59	48	r o	0.47
Corsica (I. Sanguinaires) ...	55	41	f t	—	Vienna	14	10	b m	—
Rome	45	39	b b	0.12	St. Petersburg	27	12	s o	—
Florence	47	30	b o	—					Measured 7 a.m.
Trieste	54	34	b c	—	16. XII. 02				
Naples	51	43	o b	—	Lugano	50?	—	b	—
Palermo	67	34	o o	0.24	Davos	25	—	bc	0.12
Malta	64	51	? o	0.12	Lucerne	36	—	b c	0.04
					Lausanne	39	—	o	0.08

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard Time.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

18. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8. 3	11.50	3.37
Greenwich	8. 4	11.57	3.50
Wick	9. 2	12. 9	3. 16
Valencia	8.48	12.38	4.28

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† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

Friday, 19th December,

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.		
				Dirac.	Force (0 to 12.)		At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.				
																				At 32° and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Max.	Min.
Ins.		Dry Bulb.	Dirac.	Force (0 to 12.)	Weather.	Ins.	Ins.	°	°	°	Direc.	Force (0 to 12.)	Weather.	Max.	Min.	Hours	Ins.				
SCANDINAVIA.	Haparanda ...	29.30	24	SSE	4	0	29.48	+21	29	28	+10	?	4	0	-	29	18	*	-		
	Hernösand ...	29.33	14	Z	0	0	29.53	+24	12	11	-10	Z	0	0	-	30	?	*	-		
	Stockholm ...	29.39	24	W	2	0	29.56	+19	27	26	-3	WNW	2	0	-	30	23	*	-		
	Wisby ...	29.41	34	NW	2	0	29.51	+13	29	29	-6	E	2	0	-	36	29	*	-		
	Karlstad ...	29.37	30	Z	0	0	29.55	+12	33	33	+7	Z	0	0	-	*	*	*	-		
	Färder (X'ania Fjord) ...	29.31	35	SSW	1	0	29.54	+11	32	31	-3	N	2	0	-	36	32	*	-		
	Bodö ...	29.06	36	Z	0	0	29.36	+35	37	35	+4	E	2	0	-	37	33	*	-		
	Christiansund ...	29.16	37	WSW	3	+	29.56	+38	37	36	-4	WSW	3	+	4	41	36	*	0.12		
Skudesnaes ...	29.31	39	W	4	+	29.64	+19	39	37	-3	NNW	6	0	3	42	36	*	-			
BRITISH ISLANDS.	Sumburgh Head ...	29.21	37	W	6	0, 7p	29.87	+69	40	37	0	NW	3	0, 0	4	0, 7p	43	33	*	0.37	
	Stornoway ...	29.61	39	WNW	7	0	30.07	+72	40	38	+1	WNW	2	0, 0	2	0, 0, 0	42	35	0.9	0.38	
	Malin Head ...	29.91	47	WNW	9	0, 7p	30.24	+61	48	47	+7	WNW	6	0, 0	7	0, 7p	48	41	*	0.10	
	Blacksod Pt. ...	30.21	48	WNW	7	0	30.39	+48	50	49	+4	W	5	0, 0	4	0, 0, 0	50	43	*	0.05	
	Valencia ...	30.41	51	W	4	0	30.54	+39	51	49	+3	W	5	0, 0	5	0, 0	52	47	0.7	0.02	
	Roche's Point ...	30.31	50	NW	6	0	30.48	+38	51	48	+4	WNW	4	0	3	0, 0	51	46	*	0.02	
	Parsonstown ...	30.25	47	W	7	0	30.43	+45	48	46	+5	W	2	0, 0	*	48	42	3.7	-		
	Donaghadee ...	29.97	44	NW	4	0, 0, 0	30.25	+55	45	44	+2	W	2	0	2	0, 0, 0	46	40	*	0.05	
Liverpool Obsy. ...	30.04	44	W	7	0	30.26	+45	45	43	0	WNW	2	0	5	0, 0	47	42	*	0.02		
Holyhead ...	30.09	46	WNW	8	0	30.32	+46	47	47	0	WNW	6	0, 0	5	0, 0, 0	47	44	*	-		
Pembroke (St. Ann's) ...	30.23	49	W	5	0	30.41	+37	50	48	0	WNW	6	0	5	0, 0	50	45	4.1	-		
GERMANY, &c.	Scilly (St. Mary's) ...	30.39	52	WNW	7	0, 0	30.49	+32	51	49	-1	NW	6	0	5	0, 0, 0	54	49	5.2	0.07	
	Jersey (St. Aubins) ...	30.23	49	WNW	8	0	30.34	+33	48	45	-1	NW	7	0	5	0, 0, 0	50	47	*	0.02	
	Portland Bill ...	30.12	45	WNW	5	0	30.25	+27	43	42	-4	WNW	3	0	2	0, 0	51	42	*	-	
	Dungeness ...	30.12	45	WNW	5	0	30.25	+27	43	42	-4	WNW	3	0	2	0, 0	51	42	*	-	
	Wick ...	29.48	36	NW	7	0	30.00	+70	38	37	0	NW	4	0	3	0, 0, 0	42	34	*	0.35	
	Nairn ...	29.62	39	WNW	4	0	30.05	+67	39	37	+1	W	1	0	1	0, 0	42	35	*	0.16	
	Aberdeen ...	29.61	37	W	4	0, 0, 0	30.08	+73	37	35	-1	SW	2	0	2	0, 0, 0	42	34	4.0	0.13	
	Leith ...	29.73	41	W	3	0	30.16	+67	40	37	-2	W	1	0	*	45	39	*	0.02		
North Shields ...	29.76	41	WSW	5	0	30.15	+61	39	37	-4	WSW	2	0	2	0, 0	45	37	*	-		
FRANCE.	Spurn Head ...	29.84	44	W	6	0	30.12	+46	42	41	-3	WNW	5	0	3	0, 0	46	41	*	-	
	Yarmouth ...	29.88	44	WNW	6	0	30.09	+35	43	40	-3	NW	5	0	4	0, 0	47	39	*	-	
	Loughborough ...	30.04	43	W	5	0	30.23	+40	44	41	-1	W	5	0	*	0, 0, 0	46	43	*	0.05	
	Oxford ...	30.17	44	W	4	0	30.30	+35	44	41	-3	WNW	2	0	*	0, 0	49	43	*	-	
	London (Brixton) ...	30.13	45	NW	4	0	30.28	+35	46	42	-2	NW	4	0	*	0, 0, 0	50	43	2.8	-	
	The Scaw (Skagen) ...	29.32	36	SSW	1	0	29.51	+01	35	34	-3	ENE	1	0	0	-	39	34	*	-	
	Fanö ...	29.36	39	W	9	+	29.58	-07	37	35	+2	WNW	6	0	*	-	41	34	*	0.16	
	Cuxhaven ...	29.55	38	W	4	0	29.65	-07	37	36	+3	WNW	4	0	*	-	41	34	*	0.20	
The Helder ...	29.78	42	WNW	7	0	29.89	+18	39	38	+2	NNW	7	0	5	-	43	36	*	0.24		
SPAN. PEN.	Brussels ...	*	*	*	*	*	30.10	+22	42	40	-8	WNW	4	0	*	-	50	40	*	-	
	Berlin ...	29.60	34	SW	2	0	29.54	-24	38	37	+2	WNW	4	0	*	-	41	34	*	0.32	
	Frankfurt ...	29.97	42	SW	2	0	29.90	+07	38	35	-2	NW	4	0	*	-	52	37	*	0.39	
	Munich ...	29.98	39	W	7	0	29.92	-02	35	34	-14	W	8	0	*	-	50	32	*	0.55	
	C. Gris Nez ...	30.09	45	W	7	0	30.20	+27	46	44	-3	W	7	0	7	-	50	45	*	-	
	Brest ...	30.50	51	NW	4	0	30.54	+23	50	49	-4	NW	4	0	4	-	54	48	*	-	
	Lorient ...	30.50	50	NW	4	0	30.55	+25	49	48	-5	NW	5	0	4	-	54	46	*	0.16	
	Rochefort ...	30.46	50	NW	5	0	30.51	+10	49	48	-5	NNW	5	0	4	-	55	46	*	0.04	
Biarritz ...	30.67	57	WSW	5	0	30.67	+03	53	50	-4	NNW	3	0	4	-	57	48	*	0.04		
SPAN. PEN.	Paris ...	30.26	48	WNW	5	0	30.31	+18	43	41	-11	WNW	3	0	*	-	55	40	*	-	
	Belfort ...	30.19	43	WSW	7	0	30.15	-02	37	36	-11	WSW	7	0	*	-	50	35	*	0.12	
	Lyons ...	30.41	47	NW	3	0	30.44	-01	42	39	-6	WSW	11	0	*	-	55	40	*	0.04	
	Nice ...	30.00	45	ENE	1	0	30.01	-20	51	37	+9	N	3	0	2	-	59	42	*	-	
	Perpignan ...	30.44	58	NW	4	0	30.48	+01	50	44	-6	NW	3	0	*	-	63	48	*	-	
	Corunna ...	30.56	50	N	4	0	30.53	-07	49	43	+2	NNE	5	0	4	-	57	45	*	-	
	Lisbon ...	30.51	63	SE	5	0	30.49	+11	63	58	0	SE	5	0	4	-	66	61	*	-	
	Azores (P. Delgada) ...	30.51	63	SE	5	0	30.49	+11	63	58	0	SE	5	0	4	-	66	61	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR Friday, 19th December, 1902.

I. BAROMETER, WIND AND SEA, This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 →

Force 5 to 7 →

Force 8 to 10 →

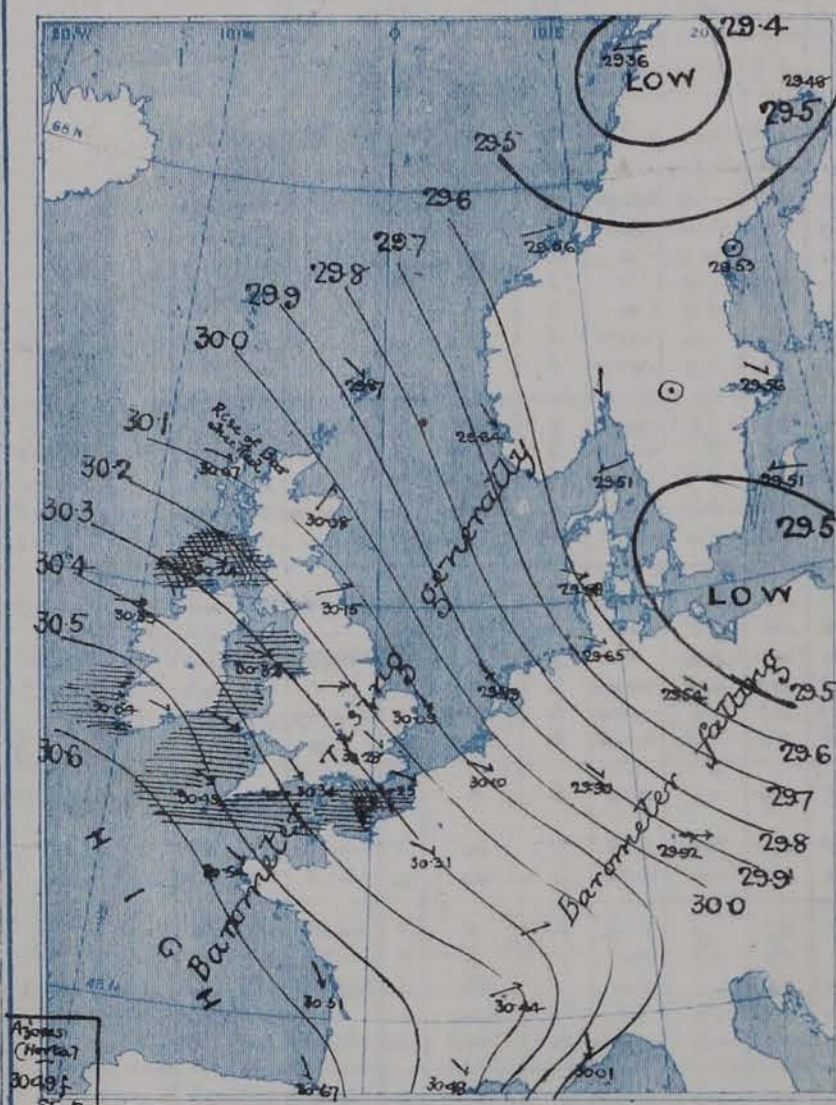
Force 1 to 4 →

Calm ☉

SEA.—Rough

High

High

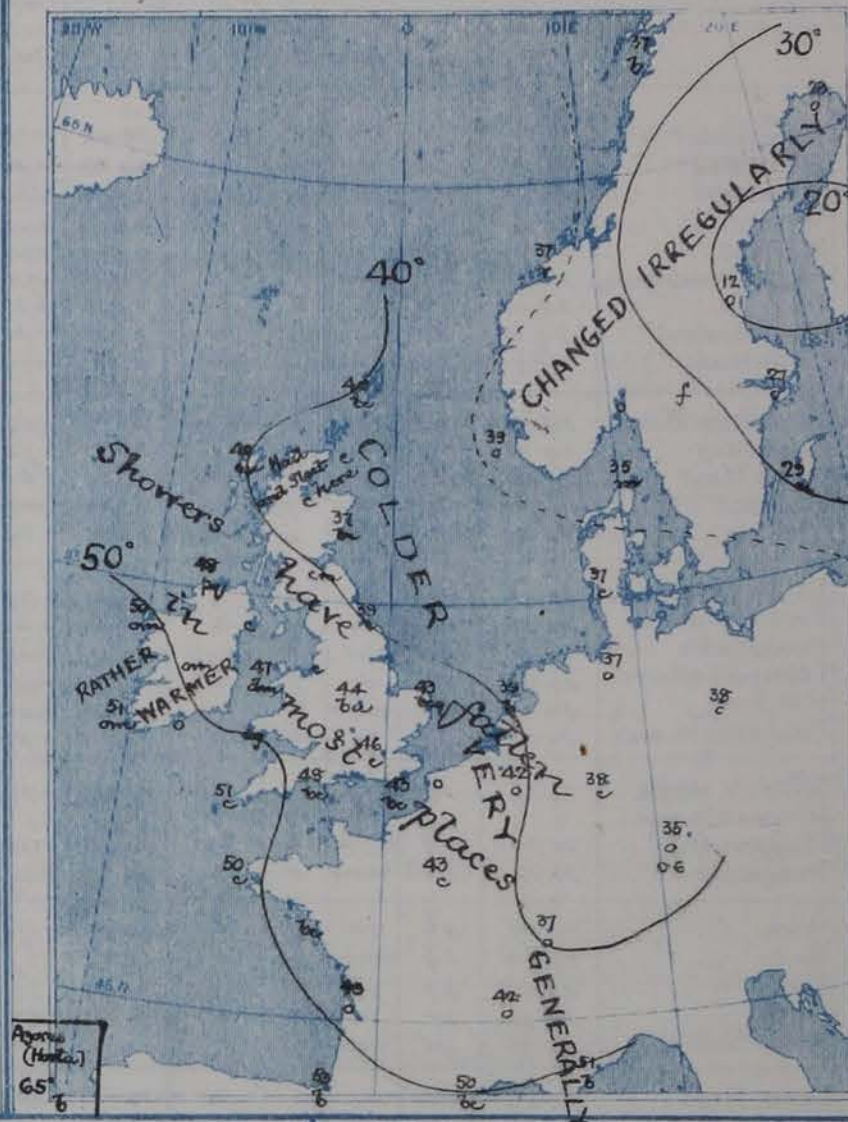


II. TEMPERATURE AND WEATHER, This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the monthly period DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Since yesterday morning the barometer has risen over Scandinavia, England and France, and fallen over Germany and Denmark. The barometer is now highest in an anticyclone extending northwards from Spain to Ireland, and lowest over the north of Norway and the Baltic. The readings range from 30.67 ins. at Brassy, and 30.54 ins. at Valencia, to about 29.5 ins. on the coast of Prussia and to 29.36 ins. at Bodø. Pressure is at present increasing in almost all parts of our area, but the upward movement has become checked in the Hebrides.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind continues W^{ly} on most parts of our western coasts, but has veered to N.W. over France, our south-eastern districts, and on the eastern and southern shores of the North Sea. At Bodø and Wisby, however, an E^{ly} breeze prevails. The gales reported yesterday over our islands have subsided, but the wind still blows freshly or strongly in various parts of England and Ireland, and with the force of a gale at Munich. Temperature has risen a few degrees in Ireland, scarcely changed in Scotland, and fallen somewhat over the greater part of England and at most stations on the Continent. The readings range from 51° on our extreme south-west coasts, to between 39° and 37° on the north-east coast of Great Britain, while over the Continental portion of our area they vary from 53° at Brassy to 43° at Paris, 35° at Munich and the Rhine, and to 12° at Herford. The weather is fair at most of our own stations, but showers are reported from Malin Head and drizzling rain from Holyhead. On the Continent the sky is more cloudy, and rain is falling at Christiansund. The sea is high at Cape Gris-Nez and off the north of Ireland, rather rough on most parts of our western and southern coasts.

Maximum temperatures of 50° and upwards were registered yesterday over France and also in some parts of Germany and the United Kingdom. Rain fell in most parts of France, Germany, the Netherlands and also in our more western and northern districts, and sleet in Scotland. A fair amount of bright sunshine was recorded over Ireland and England, as well as at Aberdeen. A strong S.W. gale was experienced at Wick and Faro during yesterday or in the night.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present distribution of pressure secondary disturbances will probably advance from the north-westward, and cause showers in our more northern and eastern districts.

FORECASTS *

For the 24 hours ending at NOON on 20th December, 1902

DISTRICTS

FORECASTS.

- 0 \nwarrow { SCOTLAND NORTH
- 1 \nwarrow { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

N.W.^{ly} to W.^{ly} winds, light or moderate; fair generally, but showers locally.

N.W.^{ly} winds, backing later; some local showers, but fair as a whole.

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

N.W.^{ly} to W.^{ly} or S.W.^{ly} breezes; mostly fair to-day, less settled to-morrow.

WARNINGS

The North Cone is still flying in parts of districts 0 and 1.

Note.—The South Cone, point downwards (\nwarrow), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (\nearrow), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	B	*	B	48	41	5.6	0.0
Newton Reigny (Penrith)	29.84	41	W 6	0	30.15	+52	41	39	-1	WNW 4	cg	*	cg, TH	43	38	0.5	0.25
Bath	30.22	46	S 5	0	30.35	+33	47	44	0	S 1	0	*	-	50	45	2.5	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	46	39	3, c, r, 3	3.6	0.10	Worthing	*	*	*	5.3	*
Birmingham, 9 p.m. ...	48	42	c, r, 0, 3	0.0	0.11	Llandudno	*	*	*	1.0	*
Lowestoft, up to 6 p.m. ...	*	*	*	*	*	Rhyl up to 6 p.m. ...	*	*	*	0.8	*
Hastings	*	*	*	4.6	*	Southport, 9 p.m. ...	48	41	0, r, c	2.5	0.24
Eastbourne up to 6 p.m. ...	*	*	*	4.8	*	Manchester, 9 p.m. ...	47	40	c, r, 3	0.0	0.18
Brighton	*	*	*	2.1	*	Darwen, 9 p.m. ...	44	37	0, m, r, c, r	0.0	0.30
						Plymouth	54	47	3c	3.9	0.04

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 18. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
Madeira (Funchal)	66	50	bc 6	Ins.	Algiers	61	54	0 bc	Ins.
Madrid	55	45	f 2	—	Tunis	59	43	0 m	0.08
Corsica (I. Sanguinaires) ...	55	45	f 2	—	Vienna	50	43	0 r	1.03
Rome	51	34	c 0	—	St. Petersburg	?	?	5 5	—
Florence	46	34	0 0	—	Lugano	47	—	6	Measured 7 a.m.
Trieste	46	36	0 0	—	Davos	41	—	0	0.20
Naples	51	43	6 c	—	Lucerne	41	—	0	0.32
Palermo	59	43	0 m	0.20	Lausanne	43	—	0	0.24
Malta	60	51	? c	0.20					

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 20th December, 1902*

Issued by the Meteorological Office, 63, Victoria Street, London. *W. N. SHAW, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.	
		At 32' and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		Weather.	At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Weather.	Max.			Min.
SCANDINAVIA.	Haparanda ...	29.57	28	SSW	2	0	29.56	+0.08	28	27	-1	S	2	0	*	-	32	21	*	-	
	Hernösand ...	29.67	16	Z	0	0	29.54	+0.01	14	14	+2	Z	0	bc	*	-	18	10	*	-	
	Stockholm ...	29.78	30	Z	0	0	29.63	+0.07	32	32	+5	S	2	0	*	-	32	23	*	-	
	Wisby ...	29.81	31	Z	0	0	29.69	+0.18	33	32	+4	S	2	0	*	-	37	25	*	-	
	Karlstad ...	29.80	29	NW	2	0	29.50	-0.05	33	32	0	S	2	0	*	-	*	*	*	-	
	Færder (X'iania Fjord)	29.82	31	W	4	f	29.47	-0.07	35	35	+3	W	2	m	2	-	35	30	*	-	
	Bodö ...	29.43	33	ESE	2	5	29.41	+0.05	30	28	-7	E	2	0	1	-	37	28	*	-	
	Christiansund ...	29.61	39	WNW	4	+	29.41	-0.15	41	40	+4	W	5	+	5	-	41	34	*	0.20	
	Skudesnaes ...	29.90	41	NW	2	c	29.60	-0.04	43	41	+4	NW	8	c	4	c	45	37	*	-	
	Sumburgh Head ...	29.70	45	SW	5	+	29.81	-0.06	45	41	+5	WNW	4	c	6	0, +	46	39	*	0.26	
BRITISH ISLANDS.	Stornoway ...	29.97	47	WSW	4	+	30.06	-0.01	47	46	+7	NW	3	op	2	0, +	50	34	0.0	0.12	
	Malin Head ...	30.23	47	W	6	om	30.23	-0.01	48	47	0	WNW	6	bc	5	om	48	47	*	0.06	
	Blacksod Pt. ...	30.32	50	WSW	5	+	30.38	-0.01	52	51	+2	WNW	4	f	4	om, m	52	50	*	0.19	
	Valencia ...	30.50	50	SSW	2	om	30.53	-0.01	52	52	+1	W	5	om	5	om, m	53	49	0.0	0.19	
	Roche's Point ...	30.49	49	WNW	2	0	30.44	-0.04	52	51	+1	WNW	3	0	3	c, 0	52	48	*	-	
	Parsonstown ...	30.41	48	W	3	+	30.40	-0.03	50	49	+2	W	1	0	*	c, +	52	47	0.4	0.03	
	Donaghadee ...	30.27	49	W	3	c	30.25	-0.00	48	47	+3	W	2	c	3	-	49	44	*	-	
	Liverpool Obsy. ...	30.30	46	WNW	5	+	30.25	-0.01	47	46	+2	W	6	0	5	0, +	47	44	*	0.01	
	Holyhead ...	30.37	49	W	4	om	30.29	-0.03	48	47	+1	NW	4	cp	3	om	49	36	*	0.20	
	Pembroke (St. Ann's)	30.42	50	WNW	4	bc	30.36	-0.05	51	49	+1	WNW	4	cg	4	-	52	48	0.0	0.09	
GERMANY, &c.	Scilly (St. Mary's) ...	30.54	52	NW	6	c	30.48	-0.01	51	50	0	NW	6	m	4	c	54	49	1.8	0.02	
	Jersey (St. Aubins) ...	30.44	50	NW	5	c	30.32	-0.02	50	49	+2	NW	4	c	3	c	50	47	*	-	
	Portland Bill ...	30.44	50	NW	5	c	30.32	-0.02	50	49	+2	NW	4	c	3	c	50	47	*	-	
	Dungeness ...	30.36	45	WNW	9	cu	30.24	-0.01	46	45	+3	WNW	4	c	2	c, cu	51	42	*	0.01	
	Wick ...	29.90	43	NW	6	0	29.96	-0.04	46	44	+8	NW	5	c	3	om	46	34	*	0.03	
	Nairn ...	30.00	40	W	1	c	30.03	-0.02	48	45	+9	W	2	c	1	-	48	38	*	0.01	
	Aberdeen ...	30.02	42	SSW	2	0	30.01	-0.07	47	43	+10	WNW	4	og	3	0	48	37	0.0	-	
	Leith ...	30.13	46	SW	3	0	30.10	-0.06	48	45	+8	WSW	3	bc	*	-	49	39	*	-	
	North Shields ...	30.14	47	SW	1	c	30.09	-0.06	46	45	+7	W	3	c	2	c	48	37	*	-	
	Spurn Head ...	30.22	44	WSW	4	bc	30.10	-0.02	45	44	+3	W	4	bc	2	-	46	42	*	-	
FRANCE.	Yarmouth ...	30.24	40	W	4	bc	30.13	+0.04	45	43	+2	W	4	bc	4	bc	45	37	*	0.01	
	Loughborough ...	30.32	47	W	2	c	30.22	-0.01	47	46	+3	WNW	3	bc	*	c, bc	48	44	*	-	
	Oxford ...	30.37	47	W	2	0	30.26	-0.04	47	45	+3	W	2	c	*	0, m	49	44	*	-	
	London (Brixton) ...	30.38	47	WNW	2	om	30.26	-0.02	47	45	+1	W	2	0	*	cp, cu	48	44	0.0	0.02	
	The Scaw (Skagen) ...	29.85	33	WSW	1	m	29.53	+0.02	38	38	+3	WSW	3	+	1	-	39	32	*	0.04	
	Fanö ...	30.01	37	WNW	6	0	29.78	+0.20	39	39	+2	W	6	0	*	-	39	36	*	0.08	
	Cuxhaven ...	30.00	39	NW	6	0	29.92	+0.27	36	36	-1	SW	4	od	*	-	41	36	*	0.04	
	The Helder ...	30.18	40	NW	4	0	30.03	+0.14	40	40	+1	W	3	0	3	-	41	37	*	-	
	Brussels ...	*	*	*	*	*	30.23	+0.13	41	41	-1	W	1	0	*	-	43	35	*	0.04	
	Berlin ...	29.85	36	NW	3	+	29.99	+0.45	35	34	-3	WNW	3	0	*	-	39	30	*	0.24	
SPAN. PEN.	Frankfurt ...	30.23	39	W	4	0	30.21	+0.31	37	36	-1	SW	4	0	*	-	41	36	*	0.04	
	Munich ...	30.13	32	W	6	5	30.27	+0.35	31	31	-4	W	6	0	*	-	36	30	*	-	
	C. Gris Nez ...	30.54	45	WNW	5	0	30.25	+0.05	46	43	0	W	4	0	5	-	50	45	*	-	
	Brest ...	30.60	52	NNW	4	0	30.48	-0.06	51	51	+1	NNW	4	0	4	-	52	48	*	0.04	
	Lorient ...	30.59	50	N	3	0	30.44	-0.11	52	52	+3	WNW	5	f	5	-	54	48	*	0.04	
	Rochefort ...	30.52	49	NW	4	c	30.47	-0.04	49	48	0	N	3	0	*	bc, c	52	45	*	-	
	Biarritz ...	30.67	52	WNW	4	c	30.62	-0.05	50	50	-3	Z	0	m	4	-	55	48	*	0.28	
	Paris ...	30.41	45	NNW	4	0	30.34	+0.03	46	44	+3	W	4	0	*	-	49	42	*	-	
	Belfort ...	30.33	35	WSW	3	0	30.36	+0.21	33	33	-4	WSW	4	5	*	-	43	32	*	0.20	
	Lyons ...	30.43	42	NW	2	0	30.46	+0.02	38	38	-4	NW	1	0	*	-	44	37	*	0.08	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR SATURDAY, 20th DECEMBER, 1902.

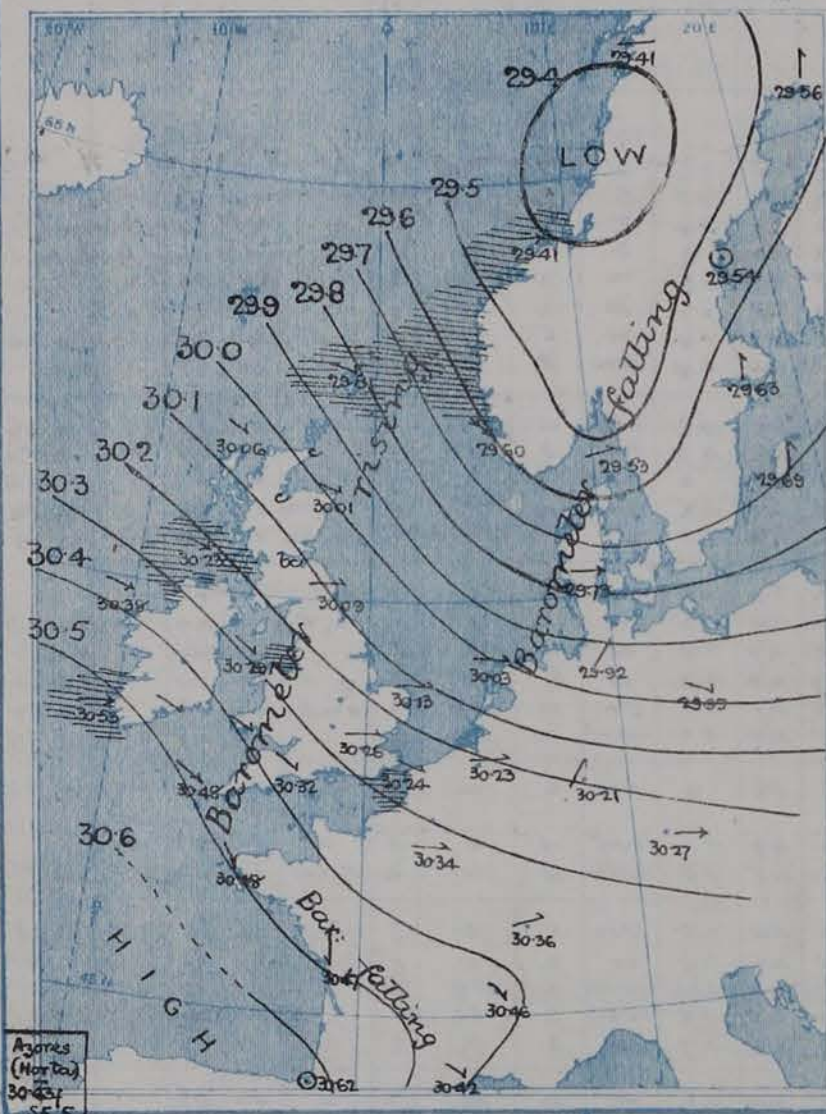
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ☉
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

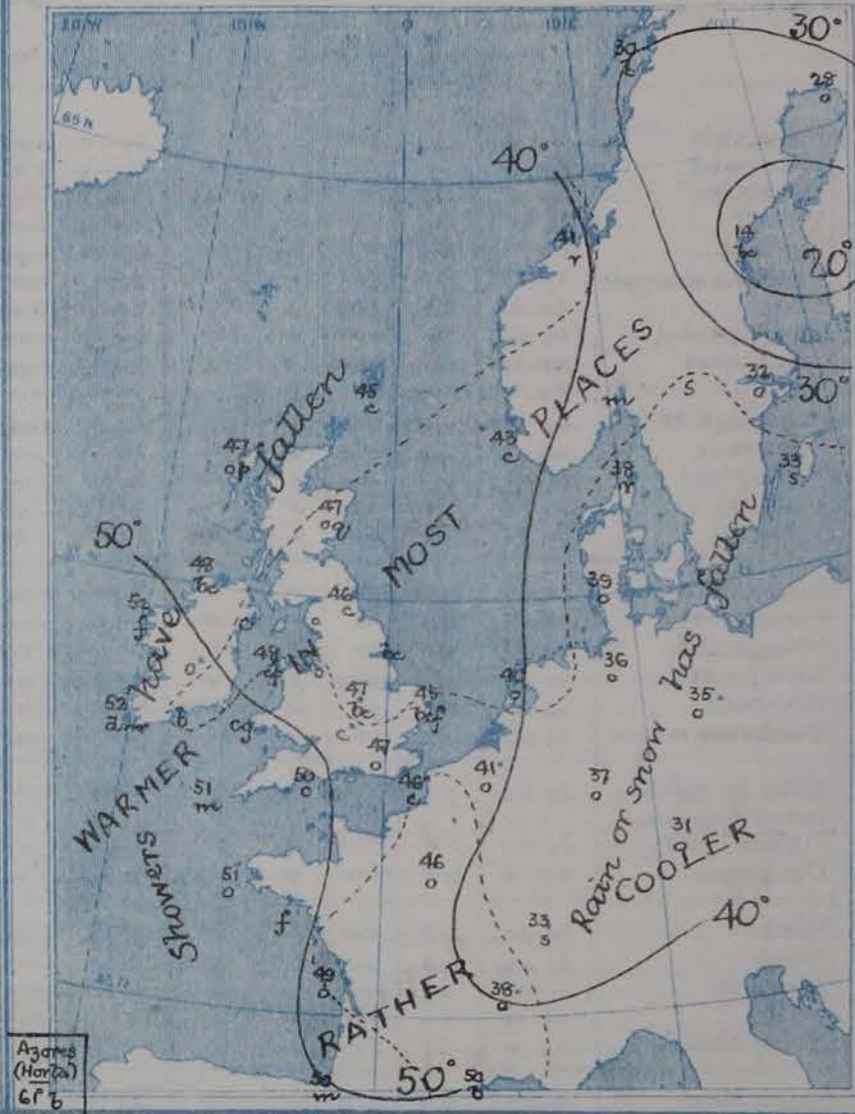


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus — 0.6

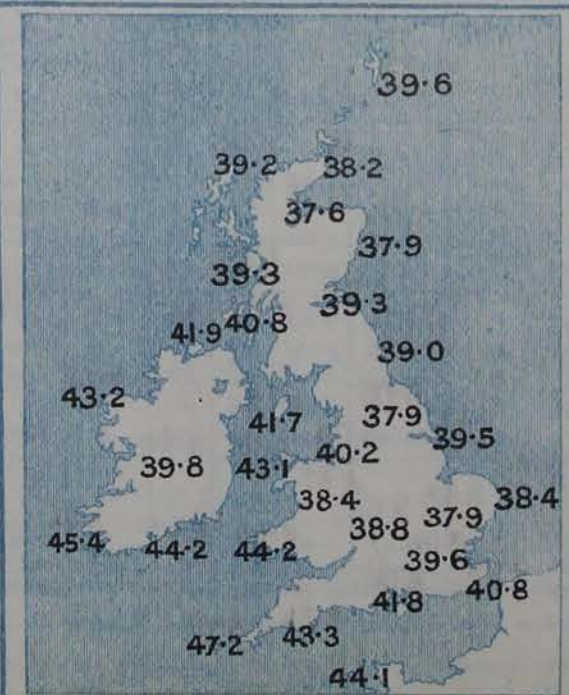


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the monthly period DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure continues highest over the Spanish Peninsula and the Bay of Biscay, and is still lowest over the north of Norway. The highest reading reported is 30.62 inches at Bismitz, and the lowest 29.41 inches at Bodø and Christiansund. Pressure is increasing over our Islands, decreasing over Scandinavia, North Germany and the west of France. Gradients are moderate to slight.

WIND

TEMPERATURE

WEATHER

AND

SEA

W¹s or N.W¹s winds prevail throughout our Islands and France; and W¹s in the eastern and southern shores of the North Sea; over Sweden, however, they draw into S. and in the extreme north of Norway to E. They have little strength as a whole, but a fresh gale is reported at Skullemars and fresh or strong breezes at a few of our own stations. Temperature has risen over our Islands and is many degrees above the normal; it varies from 52° to 50° over the western and south-western parts of the Kingdom, to 45° in the Shetlands and on the east coast of England. Over the Continent, where the change has been less regular, it ranges from about 50° on the west coast of France, to 46° at Paris and to 31° at Munich, and from 43° in the south-west of Norway to 14° at Hersonand. The weather is mostly fair over the United Kingdom, but slight rain is falling at Valencia, and passing showers at Holyhead and in the Hebrides. At the Continental stations it is generally cloudy or dull, with rain in the west of Norway and north of Denmark, and snow at Karstedt. The sea is moderate to smooth generally, but rather rough at Cape Gristeg, Liverpool, Malin Head, and between the Shetlands and Norway. The maximum temperatures recorded over our Islands yesterday were mostly between 48° and 53°, and the past night was mild. Rain was experienced in the north and west and also at a few southern stations. Very little bright sunshine was registered generally, but Carlthorne had 3.1 hours and Lowestoft 4.0 hours.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any great change in the weather over our Islands, but it is probable that secondary disturbances will appear before very long in the north-west or north, and cause further falls of rain in those regions, accompanied by a backing of the wind.

FORECASTS *

For the 24 hours ending at NOON on 21st December, 1902

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	N.W ¹ s winds, backing later; cloudy or dull, some rain.	6 { SCOTLAND WEST	Same as Nos. 0 and 1.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.	Wind chiefly W ¹ s, light or moderate; mild, fair as a whole.	8 { ENGLAND S.W.	N.W ¹ s to W ¹ s winds, moderate; mild, fair generally.
3 { ENGLAND EAST		9 { IRELAND NORTH	W ¹ s winds; fair as a whole, but some rain locally.
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH		WARNINGS	{ At 7.15 pm yesterday to districts 6, 7, 9 and and part of 0, Hoist South Cone, and at 10 am to-day to same districts, Lower Cone.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (\Uparrow), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	bc, b	46	40	4.3	—
Newton Reigny (Penrith)	30.18	46	W 1	C	30.16	+0.1	46	45	+5	WSW 4	0	*	og	47	40	0.0	—
Bath	30.41	49	S 1	0	30.31	-0.4	49	48	+2	SW 1	0	*	—	50	46	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	47	37	c, bc, o	0.8	0.20	Worthing	*	*	*	1.1	*
Birmingham, 9 p.m. ...	46	42	c, o, p	0.0	0.04	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	45	36	bc, b	4.0	—	Rhyl up to 6 p.m. ...	*	*	*	0.0	*
Hastings	*	*	*	1.9	*	Southport, 9 p.m. ...	47	43	op, o	0.1	0.06
Eastbourne up to 6 p.m. ...	*	*	*	3.1	*	Manchester, 9 p.m. ...	48	43	bc, d	0.0	0.03
Brighton	*	*	*	0.8	*	Darwen, 9 p.m. ...	45	39	om, om	0.0	0.12
						Plymouth	52	47	bc, op	0.1	—

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
19. XII. 02									
Madeira (Funchal) ...				Ins.	Algiers	66	54	b b	Ins.
Madrid				—	Tunis	63	52	o f	—
Corsica (I. Sanguinaires) ...	59	41	f f	—	Vienna	50	37	z o	0.32
Rome	52	45	o o	—	St. Petersburg ...				
Florence	48	34	o m	—		1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	48	37	o o	—	Lugano 18. XII. 02 ...	43	—	b	—
Naples	57	46	o o	—	Davos	43	—	o	0.08
Palermo	65	54	o o	—	Lucerne	54	—	o	0.04
Malta	60	57	? b	—	Lausanne	46	—	r	0.04

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corres- ponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corres- ponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

20. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8. 4	11.51	3. 38
Greenwich	8. 5	11.58	3. 51
Wick	9. 3	12. 10	3. 17
Valencia	8. 49	12. 39	4. 29

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on *Sunday, 21st December, 1902*
 Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall Ins.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.				
																				Ins.	Ins.
		Ins.				Weather.	Ins.	Ins.	°	°											
SCANDINAVIA.	Haparanda ...	29.61	28	S	2	0	29.75	+19	25	25	-3	SW	4	S	*	-	30	25	*	0.03	
	Hernösand ...	29.60	25	Z	0	S	29.76	+22	26	25	+12	SW	2	0	*	-	28	12	*	0.04	
	Stockholm ...	29.67	33	Z	0	0	29.78	+15	30	30	-2	Z	0	0	*	-	33	28	*	0.04	
	Wisby ...	29.64	33	Z	0	0	29.77	+08	33	33	0	NNW	2	+	*	-	36	25	*	0.04	
	Karlstad ...	29.73	30	N	2	S	29.91	+41	21	21	-12	N	2	0	*	-	36	25	*	0.16	
	Färder (X'iania Fjord)	29.72	31	NNW	1	0	29.97	+50	30	29	-5	NNW	1	0	2	-	36	30	*	-	
	Bodö ...	29.53	31	N	4	0	29.85	+44	31	29	+1	N	4	0	2	-	32	25	*	-	
BRITISH ISLANDS.	Christiansund ...	29.81	37	NW	4	+	30.04	+63	39	34	-2	N	4	0	5	-	41	36	*	0.16	
	Skudesnaes ...	29.90	39	NNW	4	0	30.03	+43	36	35	-7	NNW	2	0	2	0.0	45	36	*	-	
	Sumburgh Head ...	29.91	45	WNW	2	+	30.09	+28	45	44	0	WNW	1	0	4	0.7	46	44	*	0.07	
	Stornoway ...	30.12	49	W	2	+	30.22	+16	49	49	+2	WNW	4	0	5	2.7	50	46	0.0	0.07	
	Malin Head ...	30.30	48	W	5	+	30.42	+19	48	48	0	WNW	4	+	3	f. r	48	48	*	0.06	
	Blacksod Pt. ...	30.45	51	WNW	4	0	30.49	+11	49	49	-3	WSW	3	0	3	0.7	52	48	*	0.06	
	Valencia ...	30.56	50	WNW	3	0	30.58	+05	48	48	-4	NW	2	0	4	0.2	53	48	0.0	0.04	
	Roche's Point ...	30.48	52	NW	5	0	30.53	+09	50	49	-2	NW	3	0	2	0.0	54	48	*	-	
	Parsonstown ...	30.46	51	W	1	+	30.52	+12	47	46	-3	W	1	0	*	0.0	53	46	0.0	0.03	
	Donaghadee ...	30.32	51	NW	2	0	30.39	+14	50	48	+2	NW	2	0	2	-	51	46	*	-	
	Liverpool Obsy. ...	30.33	46	WNW	4	0	30.37	+12	47	46	0	W	5	0	4	-	49	45	*	-	
	Holyhead ...	30.36	49	WNW	3	0	30.44	+15	49	48	+1	NW	3	0	2	0.0	50	47	*	-	
	Pembroke (St. Ann's)	30.42	51	WNW	4	0	30.46	+10	50	47	-1	NW	3	0	3	-	52	48	0.4	-	
	Scilly (St. Mary's) ...	30.48	51	NNW	4	0	30.49	+01	51	49	0	NNW	4	0	4	f. c	54	48	0.0	-	
	Jersey (St. Aubins) ...	30.35	50	NNW	4	0	30.39	+07	49	47	-1	NNW	3	0	3	c. b	52	47	*	-	
	Portland Bill ...	30.27	49	W	2	0	30.30	+06	47	46	+1	W	2	0	1	m. o	52	40	*	-	
	Dungeness ...	30.27	49	W	2	0	30.30	+06	47	46	+1	W	2	0	1	m. o	52	40	*	-	
	Wick ...	30.05	46	NW	5	0	30.18	+22	48	47	+2	NW	4	+	3	-	48	44	*	0.05	
	Nairn ...	30.11	47	W	2	0	30.22	+19	51	49	+3	W	3	0	2	-	51	43	*	-	
	Aberdeen ...	30.09	47	WSW	2	0	30.21	+20	50	47	+3	W	1	0	1	0.0	50	45	0.0	-	
	Leith ...	30.17	47	WSW	3	0	30.28	+18	49	48	+1	WSW	3	0	*	-	50	46	*	-	
	North Shields ...	30.15	49	W	3	0	30.25	+16	49	48	+3	W	3	0	2	0.0	50	43	*	-	
	Spurn Head ...	30.18	45	WNW	4	0	30.25	+15	45	44	0	WNW	3	0	2	-	47	43	*	-	
	Yarmouth ...	30.15	46	NW	3	0	30.21	+08	45	44	0	WNW	3	0	3	0.0	48	40	*	-	
	Loughborough ...	30.28	48	WNW	3	0	30.33	+11	49	47	+2	WNW	5	0	*	0.0	50	46	*	0.04	
	Oxford ...	30.34	48	WNW	2	0	30.37	+11	50	48	+3	NW	4	0	*	-	52	43	*	-	
	London (Brixton) ...	30.27	50	NW	2	0	30.36	+10	50	48	+3	NW	2	0	*	-	52	44	0.0	-	
	The Scaw (Skagen) ...	29.70	35	N	3	0	29.93	+40	36	35	-2	NNE	1	0	0	-	41	34	*	0.04	
GERMANY, &c.	Fanö ...	29.82	39	NW	8	0	29.99	+21	35	34	-4	NW	2	0	*	-	43	34	*	-	
	Cuxhaven ...	29.85	41	WNW	5	0	29.99	+07	39	38	+3	NW	5	0	*	-	43	37	*	0.04	
	The Helder ...	30.04	41	NW	4	0	30.12	+09	40	40	0	NW	3	0	2	-	43	40	*	-	
	Brussels ...	*	*	*	*	*	30.24	+01	43	43	+2	WNW	2	0	*	-	45	41	*	0.04	
	Berlin ...	29.65	40	W	3	+	29.84	-15	35	33	0	NW	2	0	*	-	43	34	*	0.24	
	Frankfurt ...	30.04	42	SW	4	0	30.09	-12	42	39	+5	NW	2	0	*	-	45	37	*	0.04	
	Munich ...	29.99	35	W	6	+	30.04	-23	34	34	+3	W	5	0	*	-	36	31	*	0.16	
	C. Gris Nez ...	30.23	48	WNW	4	0	30.28	+03	48	47	+2	WNW	4	0	4	-	50	43	*	-	
	Brest ...	30.49	51	NNW	3	f	30.49	+01	51	49	0	NNW	3	0	3	-	52	48	*	0.04	
	Lorient ...	30.43	52	NW	3	0	30.49	+05	52	50	0	N	3	0	3	-	54	48	*	-	
	Rochefort ...	30.39	50	NW	4	m	30.42	-05	48	47	-1	NNW	3	0	*	m	52	46	*	0.04	
	Biarritz ...	30.55	54	W	4	m	30.52	-10	50	50	0	NE	1	m	4	-	54	48	*	0.20	
	Paris ...	30.28	48	NW	3	0	30.34	0.00	47	45	+1	WNW	4	0	*	-	49	46	*	0.04	
	Belfort ...	30.19	39	WSW	4	+	30.18	-18	39	39	+6	WSW	4	+	*	-	40	33	*	0.43	
FRANCE.	Lyons ...	30.37	41	ESE	1	0	30.34	-12	43	42	+5	WNW	2	0	*	-	45	38	*	2.09	
	Nice ...	30.10	44	Z	0	0	29.95	-20	40	35	-6	E	2	0	2	-	52	39	*	-	
	Perpignan ...	30.31	53	NW	6	0	30.25	-17	53	48	+3	NW	6	0	*	-	59	50	*	-	
SPAN. PEN.	Corunna ...																				
	Lisbon ...	30.40	56	NNE	5	0	30.39	-07	49	?	-1	NNE	5	0	*	-	59	48	*	-	
	Azores (P. Delgada)	30.39	60	E	4	m	30.34	-13	57	55	-1	ENE	2	0	3	-	63	55	*	-	
	" (Horta)	30.38	61	SSW	4	0	30.32	-11	60	57	-1	SE	4	0	3	-	64	55	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Chart on next page.

WEATHER CHARTS

FOR SUNDAY 21ST DECEMBER, 1902.

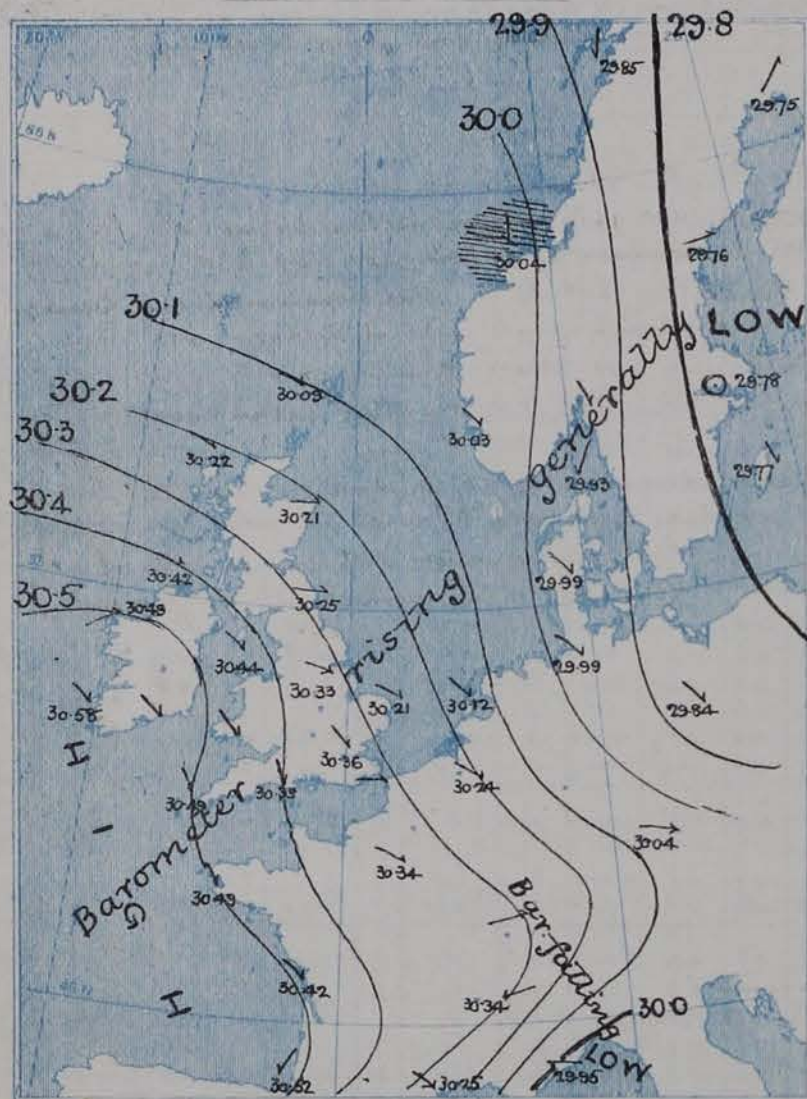
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ○
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

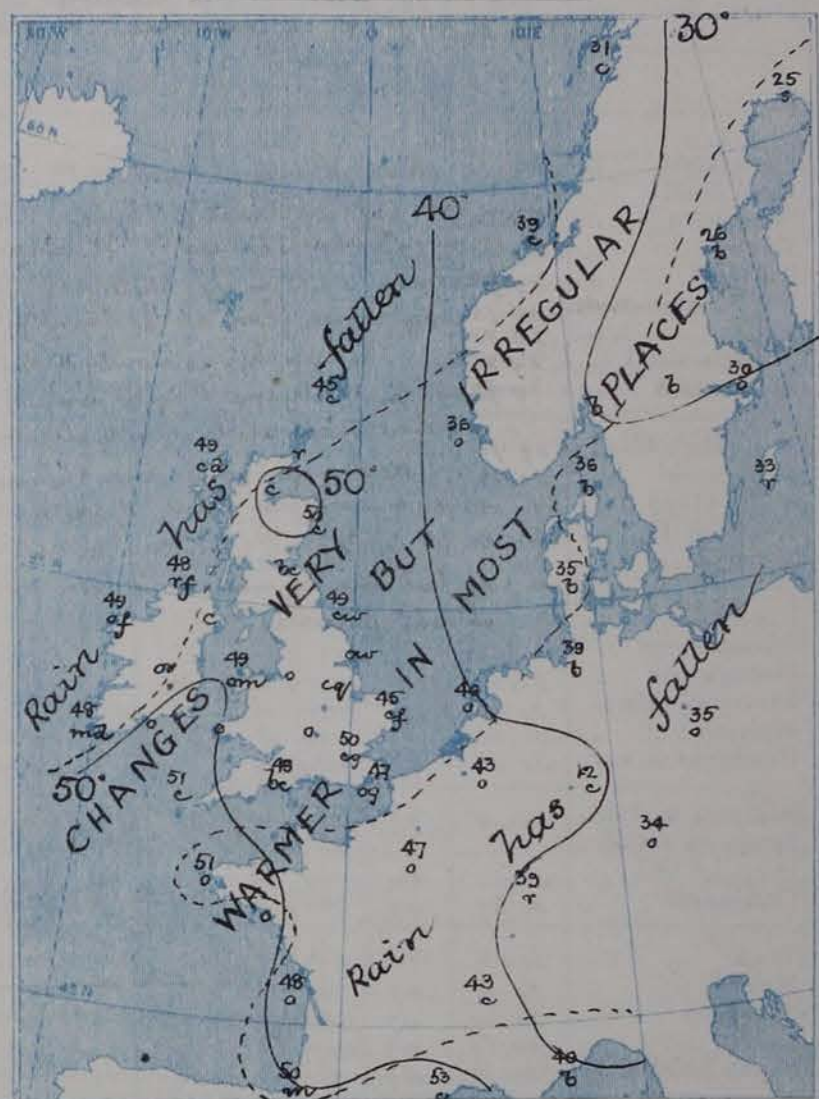


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus - 0.6

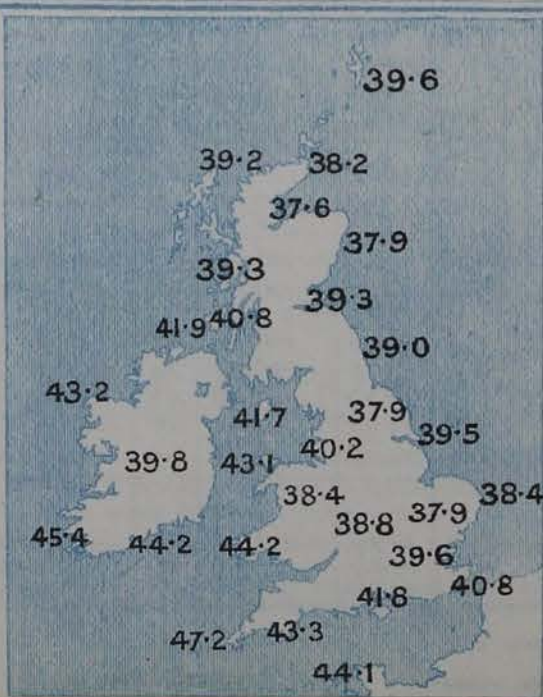


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the monthly period DECEMBER. (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The barometer continues highest in an anticyclone extending from the Atlantic over the Bay of Biscay and our west and southwest coasts, and is now lowest over the the Gulf of Bothnia and the Gulf of Genoa. The readings range from 30.58 ins. in the southwest of Ireland to 29.95 ins. at Nice and to 29.75 ins at Haparanda. The mercury is rising generally and gradients are slight.

WIND

TEMPERATURE

WEATHER

AND

SEA

Light or moderate NW. or W. winds prevail in nearly all parts of our area, but draw into NE in Spain and the southwest of France. Temperature remains very uniform over our Islands and France and is much above the mean. It ranges from 53° at Perpignan, 51° at Scilly and Nairn and 50° in London and Biarritz to 45° in the Shetlands and in the east of England. Over Scandinavia and Germany the readings range from 42° at Frankfurt and 39° at Christiansund to 30° at Stockholm and 21° at Karlstad. The weather is cloudy or dull generally, with rain at some of our western and northern stations as well as at Wisby and Belfort, and with snow at Haparanda. The sea is rather rough at Christiansund, moderate to smooth elsewhere.

During yesterday the thermometer recorded maxima of 50° or above in nearly all parts of the Kingdom, and not many of the minima during last night were below 45°. Some rain has been experienced in France, Germany, Scandinavia and in the extreme western and northern parts of our Islands, but the amounts have been mostly small. Very little or no sunshine was recorded over our Islands yesterday.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS *

For the 24 hours ending at NOON on 22ND December. 1902

DISTRICTS

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

None Issued

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

None Issued.

WARNINGS

None Issued.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet. °	Change					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	bc, b	51	41	3.5	—
Newton Reigny (Penrith)												*					
Bath	30.28	48	SW 1	0	30.41	+1.10	47	46	-2	W 1	0	*	—	53	41	1.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	50	45	0, c, b	2.5	0.01	Worthing	*	*	*	2.1	*
Birmingham, 9 p.m. ...	48	45	0	0.0	—	Llandudno	*	*	*	1.5	*
Lowestoft, up to 6 p.m. ...						Rhyl up to 6 p.m. ...	*	*	*		*
Hastings	*	*	*	0.9	*	Southport, 9 p.m. ...	48	45	0, c, 0	0.0	—
Eastbourne up to 6 p.m. ...	*	*	*		*	Manchester, 9 p.m. ...					
Brighton	*	*	*		*	Darwen, 9 p.m. ...	45	43	0 m, t	0.0	0.03
						Plymouth	53	47	0 p	0.0	0.01

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 20. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS. 20. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira (Funchal)	66	50	c, c	Ins.	Algiers	64	55	c, 0	Ins.
Madrid				—	Tunis	59	48	m, m	—
Corsica (I. Sanguinaires) ...	55	43	m, m	—	Vienna	43	36	s, 0	0.24
Rome	56	40	b, b	—	St. Petersburg	9	?-8	b, b	—
Florence	42	30	b, b	—	19. XII. 02	1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	48	36	Sc, b	—	Lugano	45	—	0	—
Naples	56	40	b, b	—	Davos	25	—	s	0.51
Palermo	66	48	Sc, 0	0.08	Lucerne	41	—	0	0.28
Malta	61	55	c, c	0.04	Lausanne	37	—	c	0.32

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

21. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8.4	11.51	3.38
Greenwich	8.5	11.58	3.51
Wick	9.3	12.10	3.17
Valencia	8.49	12.39	4.29

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ „ „ £1 10 0 „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Monday, 22nd December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.	
		At 82° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)			At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.			
																					Ins.
SCANDINAVIA.	Haparanda	29.94	12	Z	0	c	30.12	+37	-1	-2	-26	Z	0	b	*	-	30	9	*	0.12	
	Hernösand	30.10	15	Z	0	b	30.26	+50	10	8	-16	Z	0	b	*	-	27	10	*	-	
	Stockholm	30.09	29	NW	2	b	30.26	+48	19	15	-11	NW	2	b	*	-	34	19	*	-	
	Wisby	30.02	32	N	2	0	30.23	+46	30	30	-3	N	4	bc	*	-	36	27	*	-	
	Karlstad	30.21	22	NW	2	b	30.34	+43	16	15	-5	NW	2	bc	*	-	*	*	*	-	
	Færder (X'ania Fjord)	30.25	31	N	1	b	30.32	+35	30	28	0	Z	0	bc	1	-	32	27	*	-	
	Bodö	30.05	31	W	2	c	30.06	+21	27	24	-4	E	4	c	2	-	32	25	*	-	
	Christiansund	30.20	36	W	3	0	30.15	+11	44	42	+5	WSW	4	0	5	-	45	36	*	0.32	
	Skudesnaes	30.29	33	Z	0	b	30.38	+35	36	36	0	SE	4	*	2	-	37	33	*	*	
	Sumburgh Head	30.18	47	WSW	2	m	30.22	+13	47	46	+2	WSW	3	0	4	+m	48	45	*	0.05	
BRITISH ISLANDS.	Stormoway	30.29	47	W	1	b	30.27	+05	47	45	-2	SW	3	c	3	o, b	50	45	0.0	0.02	
	Malin Head	30.41	46	WNW	3	f	30.41	-01	43	42	-5	SW	3	0	2	f, f	48	43	*	0.01	
	Blacksod Pt.	30.47	47	SW	3	of	30.39	-10	48	48	-1	SSW	5	om	4	c, of	49	47	*	0.03	
	Valencia	30.53	48	Z	0	omg	30.46	-12	45	44	-3	SSE	2	cm	4	o, omg	50	45	0.0	0.05	
	Roche's Point	30.52	49	NNW	3	0	30.49	-04	46	45	-4	S	2	0	1	c, 0	50	45	*	-	
	Parsonstown	30.50	47	SW	1	0	30.48	-04	41	40	-6	SW	1	0	*	omg	48	40	0.0	0.01	
	Donaghadee	30.44	50	WNW	2	og	30.45	+06	44	43	-6	W	1	og	1	og	51	43	*	-	
	Liverpool Obsy.	30.44	46	WNW	3	0	30.50	+13	45	44	-2	WNW	1	0	?	-	48	45	*	-	
	Holyhead	30.46	49	NW	2	om	30.49	+05	47	45	-2	SW	1	om	0	c, om	49	45	*	-	
	Pembroke (St. Ann's)	30.47	50	NNW	2	0	30.49	+03	48	45	-2	Z	0	og	2	-	51	44	0.0	-	
GERMANY, &c.	Scilly (St. Mary's)	30.15	50	N	3	omf	30.47	-02	49	47	-2	ENE	1	0	3	c, omf	53	46	0.0	-	
	Jersey (St. Aubins)	30.44	49	NNW	1	bc	30.50	+11	48	46	-1	NNE	1	b	1	bc	52	46	*	-	
	Portland Bill	30.44	49	NNW	2	om	30.48	+18	46	45	-1	NNE	4	0	2	om, b	50	45	*	0.02	
	Dungeness	30.34	49	NNW	2	0	30.48	+18	46	45	-1	NNE	4	0	2	om, b	50	45	*	0.02	
	Wick	30.29	48	WNW	4	*	30.30	+12	40	39	-8	W	2	bc	2	-	50	39	*	0.04	
	Nairn	30.31	47	W	1	bc	30.32	+10	44	43	-7	SW	2	bc	1	-	51	41	*	-	
	Aberdeen	30.33	48	WSW	2	c	30.34	+13	34	33	-16	W	2	bc	1	-	52	32	0.1	-	
	Leith	30.33	48	WSW	2	b	30.38	+10	46	45	-3	WSW	3	om	*	-	52	45	*	-	
	North Shields	30.35	49	W	3	c	30.42	+17	46	45	-3	W	3	c	2	-	53	44	*	-	
	Spurn Head	30.33	48	NW	3	0	30.46	+21	46	46	+1	NNW	2	f	2	o, f	49	43	*	-	
FRANCE.	Yarmouth	30.27	47	NNW	3	o, b	30.46	+25	43	42	-2	NNE	1	bcf	2	+o, b	49	41	*	0.07	
	Loughborough	30.40	48	WNW	2	0	30.49	+16	47	46	-2	W	1	0	*	o, c, o	50	46	*	-	
	Oxford	30.44	49	NW	3	0	30.53	+16	47	46	-3	WNW	1	0	*	o, c, o	51	47	*	-	
	London (Brixton)	30.38	51	NW	2	og	30.50	+14	47	48	-1	NE	1	ogm	*	og	52	48	0.0	-	
	The Scaw (Skagen)	30.23	35	NNE	3	b	30.35	+42	32	30	-4	WSW	1	c	0	-	37	30	*	-	
	Fanö	30.39	29	Z	0	b	30.46	+47	27	26	-8	Z	0	b	*	-	37	27	*	-	
	Cuxhaven	30.17	35	NW	2	b	30.47	+48	30	30	-9	Z	0	b	*	-	39	28	*	-	
	The Helder	30.23	40	N	3	0	30.46	+34	34	34	-6	Z	0	bc	0	-	41	34	*	-	
	Brussels	*	*	*	*	*	30.49	+25	39	39	-4	NE	1	0	*	-	46	39	*	0.04	
	Berlin	30.10	34	NW	3	0	30.38	+54	32	31	-3	NW	2	0	*	-	39	28	*	-	
SPAN. PEN.	Frankfurt	30.23	41	N	2	0	30.44	+35	32	32	-10	NE	2	b	*	-	45	32	*	-	
	Munich	30.13	34	W	2	0	30.40	+26	30	30	-4	W	3	0	*	-	36	30	*	0.04	
	C. Gris Nez	30.34	47	NW	3	f	30.41	+13	42	42	-6	NE	3	f	3	-	52	41	*	0.04	
	Brest	30.48	50	NNW	3	0	30.48	-01	48	47	-3	N	1	0	1	-	52	48	*	-	
	Lorient	30.47	50	N	3	0	30.48	-01	48	48	-4	NNE	2	0	2	-	52	46	*	-	
	Rocheport	30.41	50	NNW	3	0	30.38	-04	48	47	0	NNE	3	0	*	-	52	45	*	-	
	Biarritz	30.50	51	N	1	0	30.43	-09	47	47	-3	ENE	1	0	2	-	54	46	*	-	
	Paris	30.36	49	NNW	3	0	30.47	+13	45	43	-2	NNE	4	0	*	-	50	44	*	-	
	Belfort	30.18	42	SE	6	0	30.37	+19	37	37	-2	ENE	2	m	*	-	43	36	*	0.12	
	Lyons	30.32	44	NNW	3	0	30.37	+03	42	41	-1	NNW	2	c	*	-	48	41	*	-	
Nice	29.93	47	ENE	2	b	30.06	+11	44	37	+4	E	1	b	2	-	55	40	*	-		
Perpignan	30.22	52	NW	7	b	30.23	-02	52	45	-1	NW	6	b	*	-	56	48	*	-		
SPAN. PEN.	Corunna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lisbon	30.28	54	?NNE	4	b	30.23	-16	47	44	-2	NNE	4	b	*	-	59	46	*	-	
SPAN. PEN.	Azores (P. Delgada)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	" (Horta)	30.23	58	S	3	0	30.05	-27	60	57	0	S	4	0	2	-	63	57	*	0.04	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next

WEATHER CHARTS



FOR MONDAY, 22nd DECEMBER, 1902.

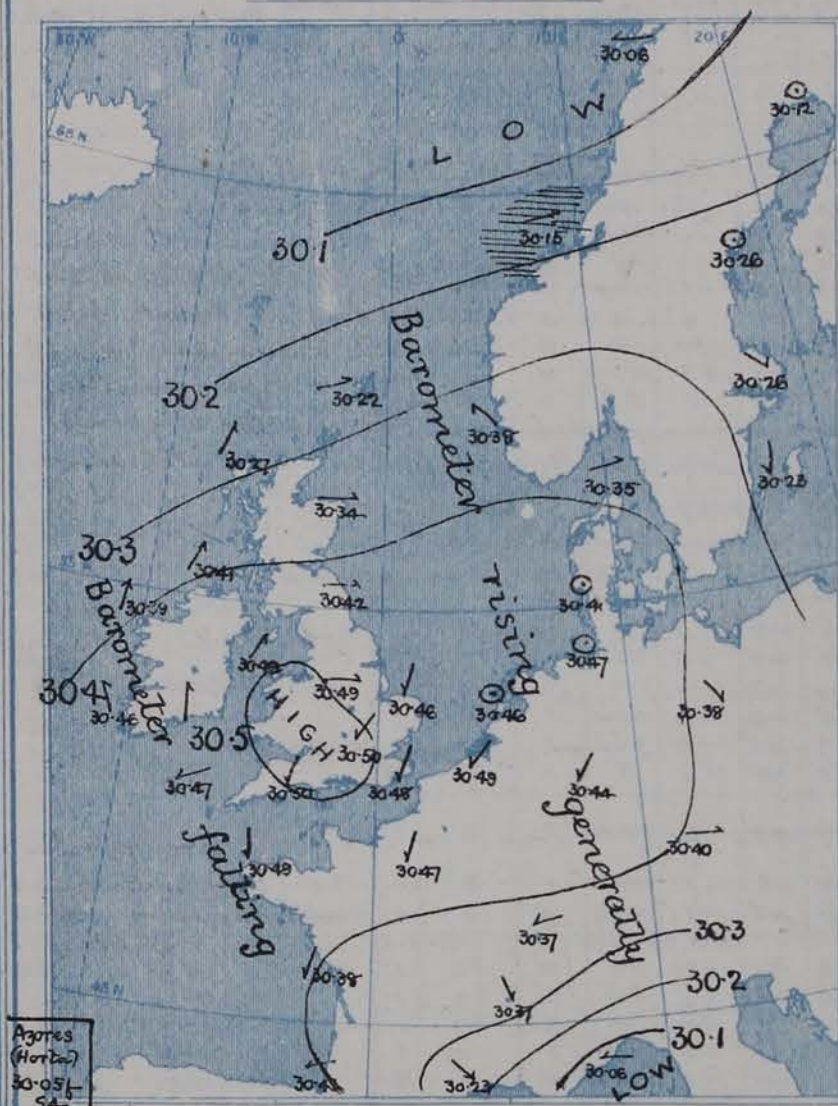
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough  High 

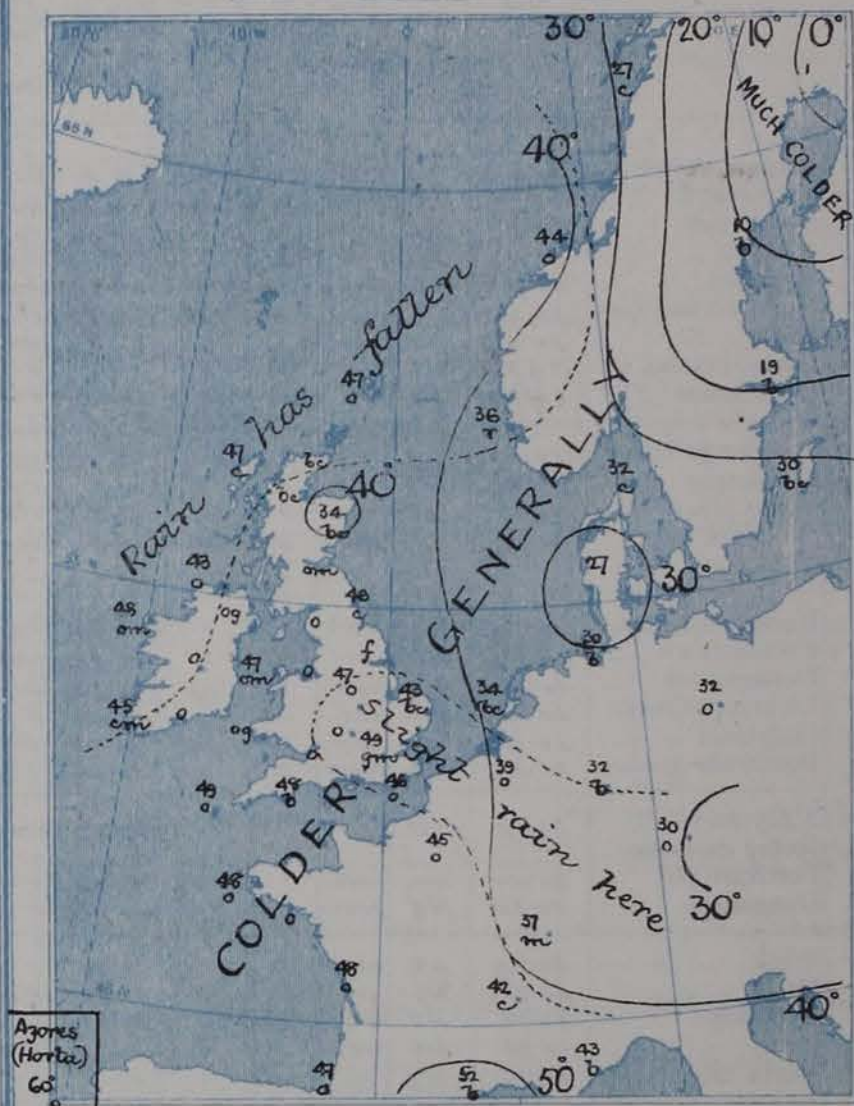


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0.6

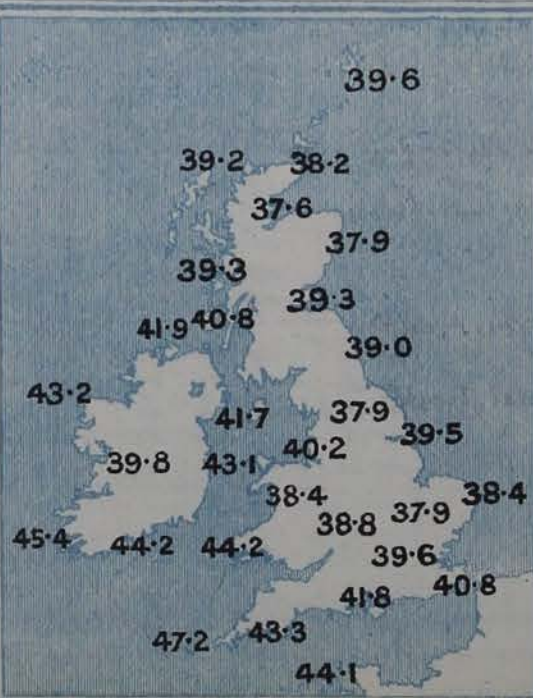


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure is now highest in a large anticyclone embracing the Bay of Biscay, Ireland, England, the northern parts of France, Germany, Denmark, and the southern half of the North Sea. It is lowest in the north of Norway on the one hand, and over the Gulf of Genoa on the other. The readings range from 30.53 in. at Oxford to 30.06 in. at Bodø, and to 29.99 in. at Languais. Pressure is now decreasing in the west and south of Ireland and also in the south-west of France, still increasing elsewhere.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind circulates around the high pressure area, being S^W in the west of Ireland, mainly S.W³ or W³ in Scotland, N.W³ over the south of Sweden and at Berlin, and N³ or N.E³ over Belgium, the greater part of France, and the more southern counties of England. It is very light in force generally, but blows freshly at Blackod Point. Temperature has fallen in nearly all places, but is still several degrees above the mean in most parts of our Islands and France. It is as high as 49° in London and the Scilly Isles and 45° or above over the United Kingdom generally, but at Yarmouth it is 43°, Portsmouth 41° and Aberdeen as low as 34°. The Continental readings range from 52° at Perpignan to 45° at Paris, 30° at Munich and Wisby, 16° at Karlstad and to -1° at Haparanda. The last named station is 26° colder than it was at 8 a.m. yesterday. The weather is fair in Scotland and Sweden, but cloudy or dull as a whole, with rain on the south-west coast of Norway and fog in the east of England. The sea is slight or smooth on most parts of our own coasts, rather rough at Christiansund.

Maximum temperatures of 50° or slightly above were again recorded yesterday in most parts of our Islands and the succeeding night was very mild, except, locally, in the east of Scotland. Very little or no bright sunshine was registered, but the weather was dry except at some extreme northern and western stations, and at a few places in the south-east.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone will probably continue to extend or to move eastwards or north-eastwards, while the basin fall noticed in Ireland will spread slowly eastwards. Dry, but rather foggy or misty weather seems likely over the greater part of the Kingdom, with a somewhat lower temperature.

FORECASTS *

For the 24 hours ending at NOON on 23rd December, 1902

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	S.W ³ to S ³ breezes; mild, fair, then some rain.	6 { SCOTLAND WEST	Same as No. 0.
1 { SCOTLAND EAST	W ³ to S ³ or S.E ³ winds, light; cloudy or dull,	7 { ENGLAND N.W.	Light variable to S.E ³ winds; fair as a whole. Mild.
2 { ENGLAND N.E.	some fog or mist. Rather colder.	8 { ENGLAND S.W.	
3 { ENGLAND EAST	Variable to S ³ or S.E ³ airs; rather colder.	9 { IRELAND NORTH	Wind chiefly S ³ ; light or moderate to-day, increasing to-morrow; mild, some rain later.
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH	Dull generally, fog or mist locally.		
		WARNINGS	None issued.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	m	*	m, 0	50	42	0.1	0.02
Newton Reigny (Penrith)	30.35	47	WN 2	0	30.42		43	42		SW 1	0	*	0m, 0	49	43	0.0	—
Bath	30.44	51	W 1	0	30.52	+11	48	46	+1	W 1	0	*	—	52	47	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	54	44	b, c, b	3.3	—	Worthing	*	*	*	0.5	*
Birmingham, 9 p.m. ...	49	45	o, 2, 0	0.0	0.02	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	*	*	*	0.0	*	Rhyl up to 6 p.m. ...	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	48	46	0m	0.0	—
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	*	*	*	0.0	—
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	46	43	of	0.0	0.08

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
21. XII. 02. <i>Information not yet recd.</i>				Ins.	Algiers				Ins.
Madeira (Funchal)					Tunis				
Madrid					Vienna				
Corsica (I. Sanguinaires) ...					St. Petersburg				
Rome									
Florence					Lugano ... 20. XII. 02	50	—	1 p.m.	Measured 7 a.m.
Trieste					Davos	23	—	5	0.04
Naples					Lucerne	36	—	0	0.77
Palermo					Lausanne	37	—	0	0.35
Malta									0.24

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

22. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8. 5	11. 52	3. 39
Greenwich	8. 6	11. 59	3. 52
Wick	9. 4	12. 17	3. 18
Valencia	8. 50	12. 40	4. 30

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 23rd December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.	
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)			At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Max.	Min.			
																					Ins.	Ins.	°	°
SCANDINAVIA.	Haparanda ...	30.06	14	SW	2	0	29.70	-.42	27	27	+28	S	2	0	*	-	27	-4	*	0.12	
	Hernösand ...	30.23	27	WNW	4	+	30.02	-.24	33	32	+23	Z	0	0	*	-	33	9	*	-	
	Stockholm ...	30.41	22	NW	2	3	30.26	.00	29	28	+10	WSW	2	f	*	-	30	19	*	-	
	Wisby ...	30.43	24	N	2	3	30.37	+.14	32	32	+2	SW	2	f	*	-	32	21	*	-	
	Karlstad...	30.39	24	Z	0	0	30.26	-.08	31	31	+15	Z	0	f	*	-	*	*	*	-	
	Färder (X'ania Fjord)	30.33	28	NNW	1	3	30.23	-.09	28	28	-2	Z	0	f	0	-	30	27	*	-	
	Bodö ...	?	39	S	6	+	29.57	-.49	43	42	+16	SW	6	f	4	-	43	27	*	-	
	Christiansund ...	29.98	47	W	4	+	29.44	-.21	45	40	+1	W	5	3	5	-	48	43	*	0.20	
	Skudesnaes ...	30.41	40	ESE	2	f	30.29	-.09	42	41	+6	SE	2	0	2	f	45	36	*	*	
BRITISH ISLANDS.	Sumburgh Head	30.25	46	WSW	3	0	30.05	-.17	46	45	-1	WSW	4	0	5	0	47	43	*	0.02	
	Stornoway ...	30.26	48	W	1	0	30.14	-.13	49	48	+2	SW	6	og	6	02.0	49	46	0.0	-	
	Malin Head ...	30.39	45	S	3	0	30.42	+.01	43	42	0	SSW	3	og	3	0	45	40	*	-	
	Blacksod Pt. ...	30.37	48	SSW	5	cm	30.41	+.02	49	48	+1	SW	5	cpm	5	07mca	49	46	*	0.01	
	Valencia...	30.43	46	SSE	3	3	30.44	-.02	49	47	+4	SSE	2	0	4	07.3	49	44	0.0	0.02	
	Roche's Point ...	30.48	47	S	2	0	30.48	-.01	50	48	+4	S	1	0	0	m,0	50	45	*	0.02	
	Parsonstown ...	30.46	43	SE	1	0	30.46	-.02	45	44	+4	SE	1	c	*	0	45	41	0.0	-	
	Donaghadee ...	30.49	42	WSW	1	0	30.46	+.01	44	43	0	W	2	0	2	-	44	40	*	-	
	Liverpool Obsy.	30.54	45	Z	0	0	30.54	+.04	44	42	-1	NNW	1	0	1	-	47	43	*	-	
GERMANY, &c.	Holyhead ...	30.50	47	SW	2	ogm	30.50	+.01	48	47	+1	WSW	2	op	1	0,ogm	48	45	*	0.03	
	Pembroke (St. Ann's)	30.49	47	S	1	0	30.51	+.02	49	47	+1	SSE	4	og	3	0.9	50	46	0.0	-	
	Scilly (St. Mary's)...	30.45	50	ESE	3	m	30.49	+.02	51	49	+2	ESE	3	0	3	0,m	54	47	0.0	-	
	Jersey (St. Aubins)...	30.54	48	E	1	0	30.55	+.05	45	42	-3	ESE	2	0	2	cm	49	43	*	-	
	Portland Bill ...	30.54	44	NE	2	0	30.59	+.11	41	40	-5	SE	2	og	1	0	46	40	*	-	
	Dungeness ...	30.55	44	NE	2	0	30.59	+.11	41	40	-5	SE	2	og	1	0	46	40	*	-	
	Wick ...	30.30	40	WNW	2	3c	30.15	-.15	42	40	+2	WNW	2	3c	1	-	43	39	*	-	
	Nairn ...	30.33	41	W	1	3	30.22	-.10	43	41	-1	W	1	3c	1	-	47	39	*	0.01	
	Aberdeen ...	30.35	33	W	1	3	30.26	-.08	28	28	-6	SW	1	3cm	1	3c,3	37	27	0.9	-	
FRANCE.	Leith ...	30.41	45	WSW	2	0	30.38	.00	45	43	-1	W	3	0	*	-	47	42	*	-	
	North Shields ...	30.45	41	W	1	3m	30.39	-.03	34	34	-12	SW	2	cm	2	3c,3m	47	33	*	-	
	Spurn Head ...	30.48	44	SW	3	f	30.48	+.02	43	43	-3	WSW	3	0	3	-	47	43	*	-	
	Yarmouth ...	30.50	44	NW	2	cf	30.51	+.05	43	42	0	SW	3	ofg	3	c,cf	45	40	*	0.01	
	Loughborough ...	30.53	46	W	1	0	30.53	+.04	46	44	-1	W	2	ogm	*	om,gn	47	45	*	-	
	Oxford ...	30.57	48	Z	0	0	30.57	+.04	46	45	-1	S	1	og	*	og	48	45	*	-	
	London (Brixton)	30.53	48	Z	0	0	30.58	+.08	43	41	-6	S	2	og	*	ogf,og	50	42	0.0	-	
	The Scaw (Skagen)	30.32	38	W	2	f	30.30	-.05	41	40	+9	WSW	3	m	1	-	41	31	*	-	
	Fanö ...	30.51	37	SW	2	+	30.49	+.03	38	37	+11	SSW	1	f	*	-	38	27	*	-	
SPAN. PEN.	Cuxhaven ...	30.56	30	SW	2	0	30.58	+.11	32	32	+2	SW	1	ofa	*	-	34	28	*	-	
	The Helder ...	30.54	37	WSW	1	0	30.55	+.09	37	37	+3	SSW	1	f	0	-	39	34	*	-	
	Brussels...	*	*	*	*	*	30.64	+.15	30	29	-9	ESE	1	3	*	-	40	29	*	-	
	Berlin ...	30.55	30	WNW	2	3	30.62	+.24	27	26	-5	W	2	3	*	-	34	25	*	-	
	Frankfurt ...	30.63	26	NE	1	3	30.67	+.23	25	25	-7	Z	0	3	*	-	37	23	*	-	
	Munich ...	30.54	30	W	3	3	30.63	+.23	25	25	-5	Z	0	3	*	-	34	23	*	-	
	C. Gris Nez ...	30.49	41	NNE	1	0	30.59	+.18	37	36	-5	SE	1	0	1	-	45	30	*	-	
	Brest ...	30.46	50	ENE	1	0	30.48	.00	45	45	-3	E	2	0	3	-	52	45	*	-	
	Lorient ...	30.44	50	E	2	0	30.48	.00	41	40	-7	E	4	3	2	-	52	39	*	-	
SPAN. PEN.	Rochefort ...	30.38	48	ENE	3	0	30.36	-.02	36	36	-12	ENE	4	3	*	0	52	34	*	-	
	Biarritz ...	30.37	49	NE	3	3	30.36	-.07	39	39	-8	E	3	m	2	-	52	37	*	-	
	Paris ...	30.55	41	NE	3	3	30.58	+.11	30	30	-15	NE	3	3	*	-	46	30	*	-	
	Belfort ...	30.50	34	ENE	5	3	30.58	+.21	25	24	-12	ENE	5	m	*	-	43	25	*	-	
	Lyons ...	30.45	40	NNW	2	3	30.55	+.18	30	30	-12	NNW	1	3	*	-	46	28	*	-	
	Nice ...	30.32	44	E	1	3	30.33	+.27	42	37	-2	ENE	2	+	1	-	54	37	*	-	
	Perpignan ...	30.34	47	Z	0	3	30.37	+.14	38	38	-14	W	+	3	*	-	58	34	*	-	
	Corunna ...																				
	Lisbon ...																				
Azores (P. Delgada)																					
" (Horta)	29.93	49	SW	2	0	29.78	-.27	51	47	-9	S	4	c	2	-	61	46	*	0.04		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR Tuesday 23rd December, 1902.

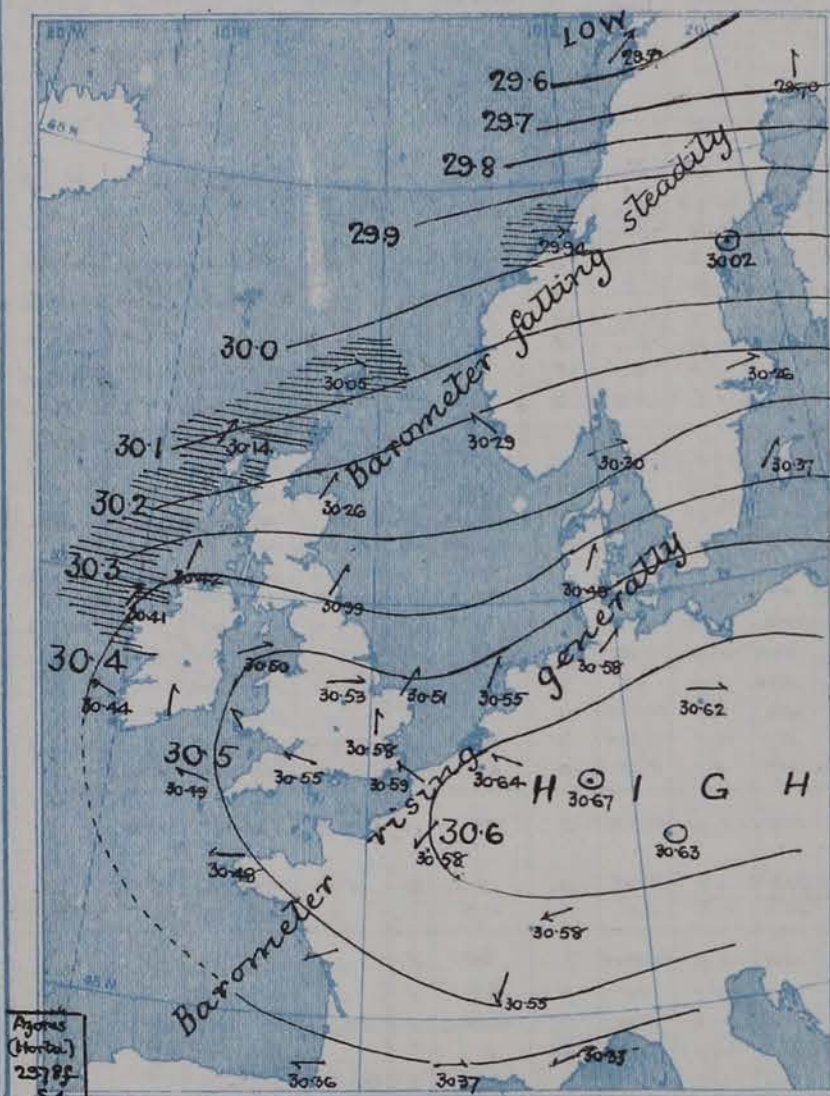
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ○
Force 8 to 10 → Force 1 to 4 → }

SEA.—Rough High

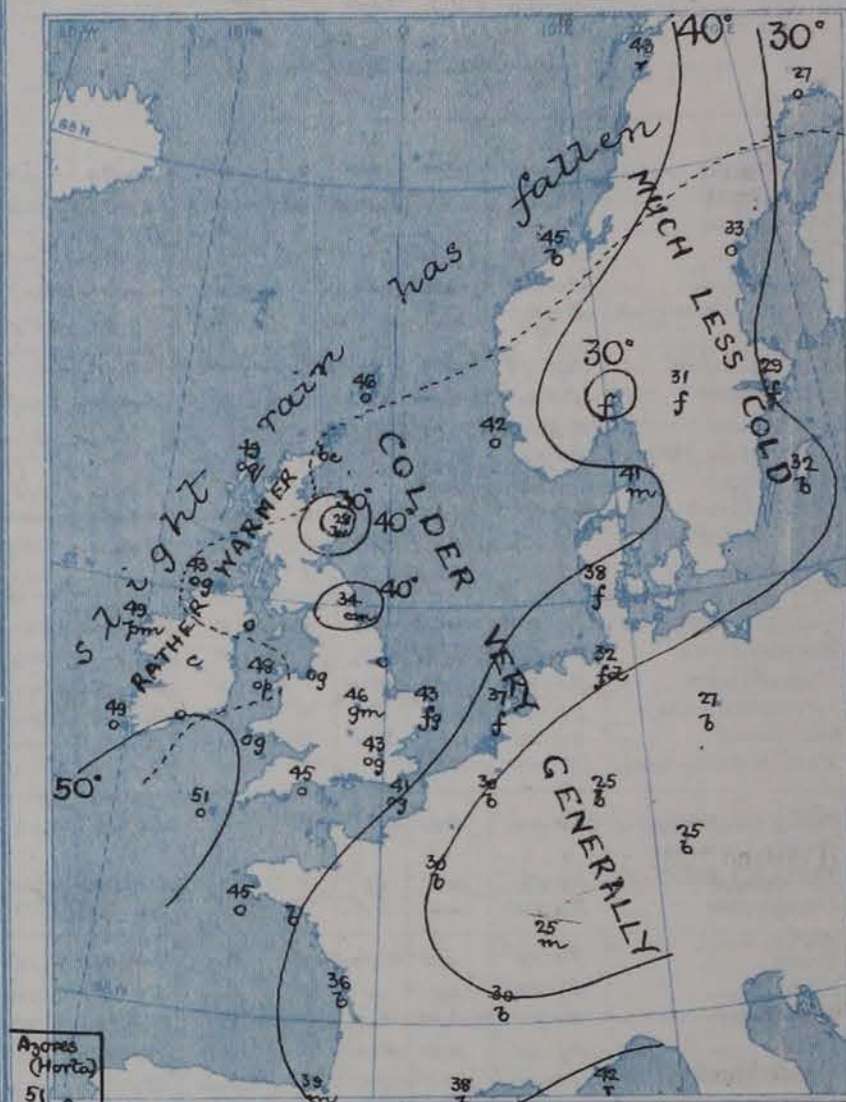


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0.6



III. BAROMETER AND WIND

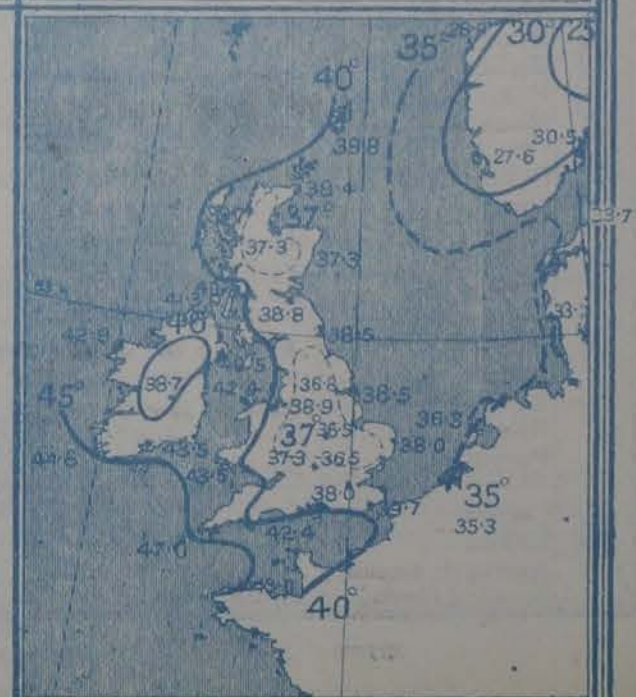
Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure this morning is highest over Germany, France and England, lowest in the west of Lapland and off our extreme northern coasts, the readings ranging from 30.67 in. at Frankfurt and 30.49 in. at Scilly to 30.05 in. at Lumburg Head and 29.57 in. at Bodö. Gradients are slight in the south, moderate in the north. The barometer is rising fast over Germany and France.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is light to moderate from the E^d. over the greater part of France and the Channel, S^{ty}, and freshening, in Ireland, S.W^{ty} in Scotland and still more W^{ty} in Norway. It blows somewhat strongly in the extreme west and north, but is very light over England. Temperature has risen a little at our western stations, and a great deal over Sweden and Lapland, fallen over England, France and Germany. In our Islands it ranges from 51° at Scilly and 50° at Roche's Point to 28° at Aberdeen; in the south and west the readings are above the average, but in the east of Scotland they are low. At Frankfurt, Munich and Belfast the temperature is 25° F. The weather is fine at the German and French stations, very gloomy in our Islands except over the eastern half of Scotland, rainy at Bodö. The sea is slight except in the extreme west and north. During the past 24 hrs. there has been a little rain in some parts of Ireland, Scotland and the west of Norway. Temperature has touched 54° at Scilly. Sunshine has been very deficient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

S^{ty} and S.W^{ty} winds appear likely to increase in force at our western and northern stations and to extend all over the Kingdom, with mild weather, and rain in many places.

FORECASTS *

For the 24 hours ending at NOON on 24th December, 1902

DISTRICTS.

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

W^{ty} to S^{ty} winds, increasing in force; mild, showery.

S.E^{ty} to S.W^{ty} winds, freshening; mild, dull, probably fair.

DISTRICTS.


FORECASTS.


- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

Wind S^{ty} and increasing in force. Dull to squally and rainy. Milder.

WARNINGS

None issued.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	W	43	41	0.0	—
Newton Reigny (Penrith)	30.44	42	Z 0	8	30.43	+01	40	39	-3	Z 0	C	*	0W	44	38	0.0	—
Bath	30.53	49	W 1	0	30.57	+05	46	44	-2	W 1	0	*	—	50	45	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	48	41	W, O, S, W	5.0	-	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	47	45	0	0.0	-	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	46	40	0	0.0	-	Rhyl up to 6 p.m. ...	*	*	*	0.0	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	47	44	0	0.0	-
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	*	*	*	*	*
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...	45	40	of, om	0.0	0.02

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
22. XII. 02.									
Madeira (Funchal)				Ins.	Algiers	63	52	c b	-
Madrid					Tunis	61	45	m 0	-
Corsica (I. Sanguinaires) ...	57	48	f f	-	Vienna	41	32	s 0	0.55
Rome	52	36	b b	-	St. Petersburg	1	-11	s 0	-
Florence	45	31	b b	-	Lugano	1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	32	25	s 0	-	21. XII. 02.	Obsns: not yet recd.			
Naples	46	40	b c	0.16	Davos				
Palermo	60	41	r c	0.32	Lucerne				
Malta	58	51	? 0	0.12	Lausanne				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

23. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	8. 3	11.52	3. 39
Greenwich	8. 6	11.59	3. 52
Wick	9. 4	12. 11	3. 18
Valencia	8. 50	12. 40	4. 30

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" Weekly " " " £1 10 0 " Single Copies, 6d.

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FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 24th December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		At 32° and M.S.L.	Ins.	Dry Bulb.	Direc.		Force (0 to 12.)	Weather.	At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.			Force (0 to 12.)	Weather.			Max.	Min.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page

WEATHER CHARTS

FOR *Wednesday, 24th December, 1902.*

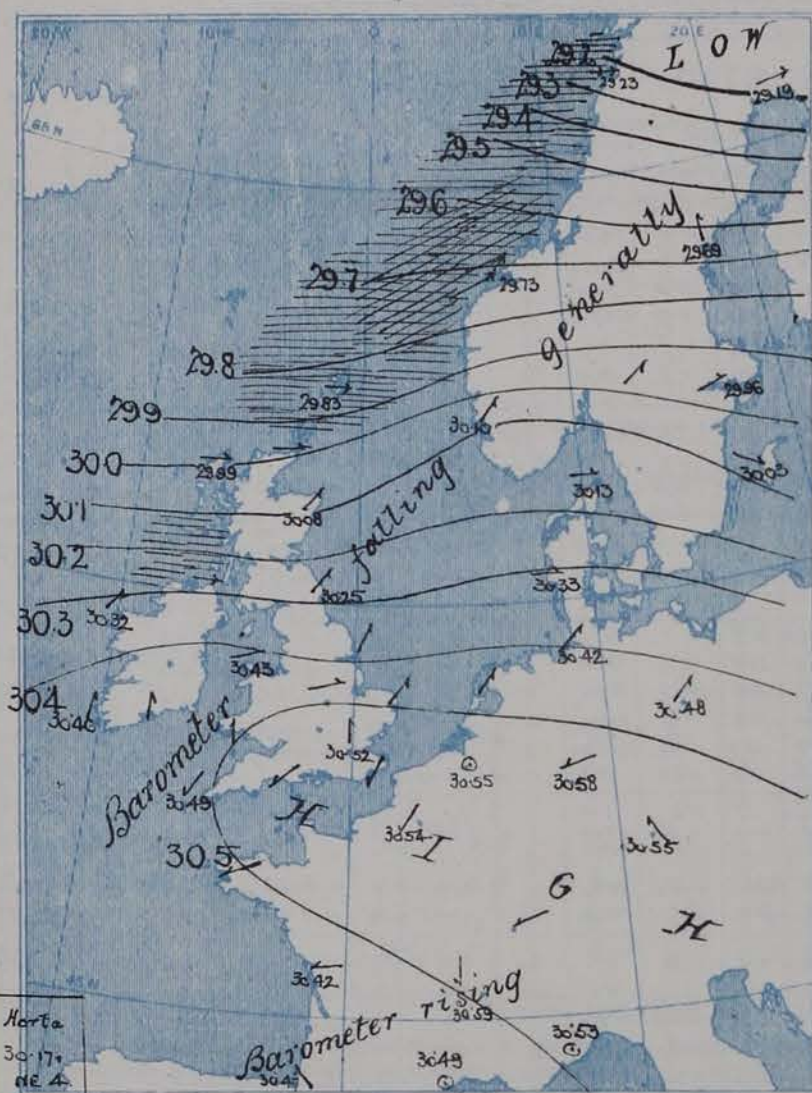
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough High



GENERAL SITUATION AT 8 A.M.

PRESSURE

The area of highest pressure has moved a little to the westward and now covers France, western Germany and the southern parts of our Islands, while the lowest readings are reported from Lapland. The values range from 30.59 in. at Lyons to 29.19 in. at Haparanda, the steepest gradients being those over Scandinavia.

WIND

TEMPERATURE

WEATHER

AND

SEA

Moderate to strong W^{ly} winds are blowing over the northern parts of our Islands, and a S.W^{ly} to W^{ly} gale over the northern half of Norway. On our south-western coasts the wind is light from S, over the English Channel there are N.E^{ly} airs, while in France there is a slight E^{ly} breeze. Temperature has risen over Scotland and North Germany, fallen over France and the southern parts of England. In our Islands it ranges from 50° at Valencia, and 45° at Stornoway and Lumburgh Head, to 37° in London and 30° at Dungeness. The readings at our northern stations are therefore much above the average, while that at Dungeness is low. At Paris the temperature is 26°, Brussels 24° and Munich 20°. At Berlin it has risen to 33°. The weather is fine over France and the south of our Islands, less fair in the north, rainy over several parts of Scandinavia and North Germany. The sea is rough in the north, moderate in the north-west, slight or smooth elsewhere.

Rain has fallen at the northern stations only. Yesterday's maximum temperatures again exceeded 50° at some western and northern stations. Bright sunshine was again very deficient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present very little indication of any important change.

FORECASTS *

For the 24 hours ending at NOON on 25th December, 1902

DISTRICTS.

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

W^{ly} winds, moderate or fresh; a few showers, mild.

Varying W^{ly} airs, fair or hazy. Rather cooler.

E^{ly} and variable airs and calms; fine or foggy. Rather cold.

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

Same as Nos. 0 to 2.


Same as No. 5


Same as Nos. 0 to 2.

Varying airs; fair generally. Cooler.

None issued.

WARNINGS

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	0	*	0	43	40	0.0	—
Newton Reigny (Penrith)	30.42	45	W 2	0	30.30	-.13	46	44	+6	SW 2	0	*	0m	47	38	0.2	—
Bath	30.58	44	W 1	0	30.52	-.05	37	35	-9	W 1	0	*	—	46	31	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	47			1.3		Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...						Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...						Rhyl up to 6 p.m. ...	*	*	*	1.1	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...				0.0	
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...					
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...					
						Plymouth, 9 p.m. ...					

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 23. XII. 02.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS. 23. XII. 02.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
Madeira (Funchal) ...	Obsn. ^s	not yet Rec ^d .		Ins.	Algiers	Obsns. not yet rec ^d .			Ins.
Madrid					Tunis				
Corsica (I. Sanguinaires) ...					Vienna				
Rome					St. Petersburg ...				
Florence					22. XII. 02	1 p.m.		1 p.m.	Measured 7 a.m.
Trieste					Lugano	30	—	3	—
Naples					Davos	23	—	3	1.14
Palermo					Lucerne	41	—	c	0.47
Malta					Lausanne	39	—	3	0.28

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WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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Greenwich	8.7	12.0	3.53
Wick	9.5	12.12	3.19
Valencia	8.51	12.41	4.31

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for 8 a.m. on *Thursday, 25th December, 1902*

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STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.		Sun- shine. Hours	Rainfall. Ins.		
At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.	Max.	Min.								
Ins.				Ins.	Ins.	°	°														
SCANDINAVIA.	Haparanda ...	29.08	26	NW	4	28.38	-0.81	28	28	-1	SSE	4	0	*	-	34	25	*	0.04		
	Hernösand ...	29.25	32	W	2	28.69	-1.00	37	32	+2	W	9	3	*	-	39	25	*	-		
	Stockholm ...	29.58	38	WSW	4	29.17	-0.79	40	35	+6	W	8	3	*	-	40	32	*	-		
	Wisby ...	29.78	38	SW	4	29.37	-0.66	40	38	+2	WNW	4	3	*	-	40	32	*	-		
	Karlstad ...	29.56	39	S	4	29.40	-0.57	37	33	+3	WSW	4	3	*	-	*	*	*	0.04		
	Färder (X'iania Fjord)	29.59	38	WSW	7	?	?	40	35	+5	?	5	3	4	-	40	34	*	-		
	Bodö ...																				
	Christiansund ...	29.05	42	WSW	5	29.21	-0.52	36	33	-1	WNW	8	0	8	7	42	34	*	0.63		
	Skudesnaes ...	29.66	46	SW	8	29.62	-0.48	39	37	-4	WSW	6	0	5	0	46	37	*	-		
BRITISH ISLANDS.	Sumburgh Head	29.53	46	WNW	8	29.08	-0.75	48	48	+3	WSW	4	+	7	0,7	48	40	*	0.43		
	Stornoway ...	29.87	48	WNW	5	29.43	-0.56	49	48	+4	WSW	8	+	8	29,0,3	50	43	0.0	0.30		
	Malin Head ...	30.18	47	WSW	7	29.82	-0.40	49	47	+2	W	8	09	6	0,0,m,f	49	47	*	0.02		
	Blacksod Pt. ...	30.31	49	SW	6	30.09	-0.23	50	49	+2	WSW	7	0m	5	m,0,m	50	48	*	0.03		
	Valencia... ..	30.46	49	WSW	2	30.26	-0.10	49	48	-1	WSW	4	02	4	cm,0,m	53	48	0.9	0.02		
	Roche's Point ...	30.44	50	W	1	30.35	-0.11	49	48	0	WNW	3	0	2	0,3	51	46	*	-		
	Parsonstown ...	30.38	49	W	2	30.23	-0.18	49	47	+2	W	5	09	*	-	50	46	0.6	0.01		
	Donaghadee ...	30.20	49	W	3	30.00	-0.33	49	47	+2	W	3	00	2	-	50	46	*	-		
	Liverpool Obsy.	30.33	46	WSW	3	30.14	-0.29	49	46	+5	WSW	4	0	3	-	50	44	*	-		
GERMANY, &c.	Holyhead ...	30.34	49	SW	4	30.18	-0.25	48	47	0	SW	6	0p	4	0,0,m	49	47	*	0.06		
	Pembroke (St Ann's)	30.43	48	WSW	5	30.31	-0.17	49	48	+3	WSW	6	09	5	0,9	51	46	0.0	-		
	Scilly (St. Mary's)...	30.51	43	ENE	3	30.46	-0.03	49	46	+3	WNW	4	c	2	c,3,0	49	39	1.8	-		
	Jersey (St. Aubins)...																				
	Portland Bill ...	30.50	41	N	2	30.40	-0.13	48	46	+11	WSW	3	c	3	cm,3	48	35	*	-		
	Dungeness ...	30.44	42	WSW	1	30.33	-0.21	45	44	+15	W	5	0p,f	2	m,3,f	46	29	*	0.02		
	Wick ...	29.79	45	WNW	5	29.34	-0.63	50	49	+8	WNW	7	00	4	-	52	40	*	0.05		
	Nairn ...	29.91	49	W	3	29.51	-0.51	52	48	+5	WNW	4	+	2	-	52	45	*	0.05		
FRANCE.	Aberdeen ...	29.91	48	SW	3	29.54	-0.54	53	46	+8	SW	4	cq	2	c,3,c	53	45	0.0	-		
	Leith ...	30.06	50	WSW	3	29.75	-0.43	52	48	+3	W	5	0	*	-	52	47	*	-		
	North Shields ...	30.16	50	WSW	3	29.92	-0.33	51	48	+3	SW	4	c	2	c,0,m	51	46	*	-		
	Spurn Head ...	30.28	43	SW	4	30.08	-0.30	46	45	+1	SW	3	c	3	-	47	42	*	-		
	Yarmouth ...	30.35	41	WSW	3	30.17	-0.28	44	43	0	WSW	3	3c	3	3c	45	35	*	-		
	Loughborough ...	30.38	40	SSW	3	30.19	-0.27	47	44	+6	SSW	3	00	2	c,09,c	48	40	*	-		
	Oxford ...	30.45	37	WSW	1	30.29	-0.24	47	45	+8	SW	3	0	*	c9	47	36	*	-		
	London (Brixton)	30.47	37	W	1	30.30	-0.22	44	43	+7	SW	4	0	*	09	44	35	0.0	-		
SPAN. PEN.	The Scaw (Skagen)	29.74	43	W	5	29.58	-0.55	41	39	+2	W	6	c	2	-	45	37	*	0.04		
	Fanö ...	30.04	40	W	6	29.88	-0.45	41	40	+2	W	6	0	*	-	41	39	*	-		
	Cuxhaven ...	30.30	37	SW	4	30.03	-0.39	40	39	+5	SW	5	0	*	-	40	36	*	-		
	The Helder ...	30.32	41	SW	3	30.13	-0.30	42	41	+2	WSW	3	c	3	-	43	39	*	-		
	Brussels ...	*	*	*	*	?	?	34	34	+10	SW	3	0	*	-	38	24	*	-		
	Berlin ...	30.32	37	SW	2	30.10	-0.38	36	35	+3	WSW	2	0	*	-	37	33	*	-		
	Frankfurt ...	30.52	27	SW	2	30.39	-0.19	27	26	+1	SW	2	3	*	-	36	25	*	-		
	Munich ...	30.53	26	Z	0	30.43	-0.12	26	26	+6	SW	3	3c	*	-	30	19	*	-		
	C. Gris Nez ...	30.44	39	SW	3	30.34	-0.16	46	45	+12	WSW	5	0	5	-	46	34	*	-		
SPAN. PEN.	Brest ...	30.53	41	N	1	30.53	+0.04	42	41	+7	N	1	3c	2	-	50	35	*	-		
	Lorient ...	30.45	42	Z	0	30.50	+0.01	38	37	+2	E	2	3	2	-	46	34	*	-		
	Rochefort ...	30.45	41	Z	0	30.49	+0.07	33	31	-2	Z	0	m	*	3,m	45	32	*	-		
	Biarritz ...	30.52	50	Z	0	30.55	+0.08	50	49	-2	Z	0	c	2	-	54	48	*	-		
	Paris ...	30.52	30	SW	1	30.50	-0.04	27	27	+1	SW	3	f	*	-	41	26	*	-		
	Belfort ...	30.52	33	SW	3	30.53	-0.04	28	26	+5	WSW	4	m	*	-	39	23	*	-		
	Lyons ...	30.59	33	NNE	1	30.58	-0.01	29	29	+3	N	1	3	*	-	35	26	*	-		
	Nice ...	30.50	43	Z	0	30.44	-0.09	36	35	-6	ENE	2	3	1	-	46	36	*	-		
	Perpignan ...	30.51	46	Z	0	30.50	+0.01	46	43	+9	W	2	0	*	-	53	37	*	-		
SPAN. PEN.	Corunna ...																				
	Lisbon ...	30.49	50	NNE	4	30.50	+0.03	44	40	-2	NNE	4	3c	*	-	54	43	*	-		
	Azores (P. Delgada)	30.27	62	E	5	30.31	+0.18	62	59	+3	E	6	3c	5	-	64	59	*	-		
" (Horta)	30.25	62	NE	4	30.26	+0.09	61	59	+3	E	5	3c	3	-	64	58	*	-			

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR Thursday, 25th December, 1902.

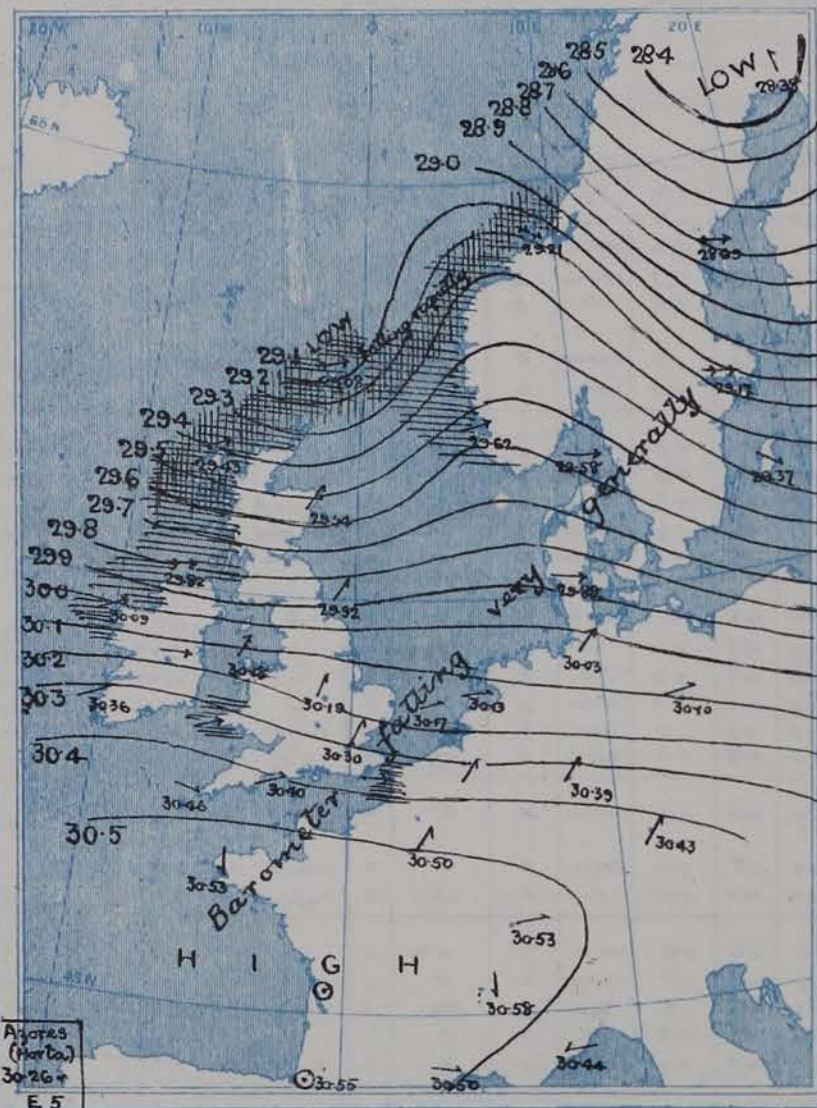
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → → → Force 5 to 7 → → → } Calm ☉
Force 8 to 10 → → → Force 1 to 4 → → →

SEA.—Rough High

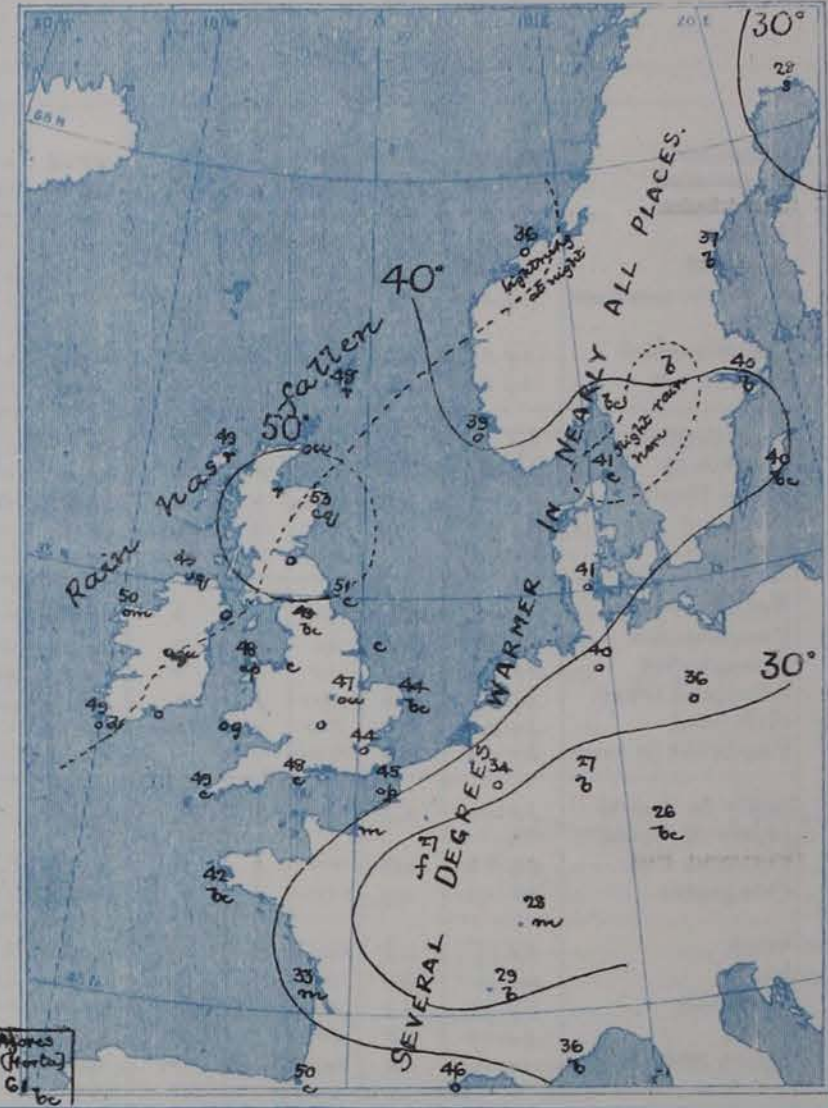


II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0.6

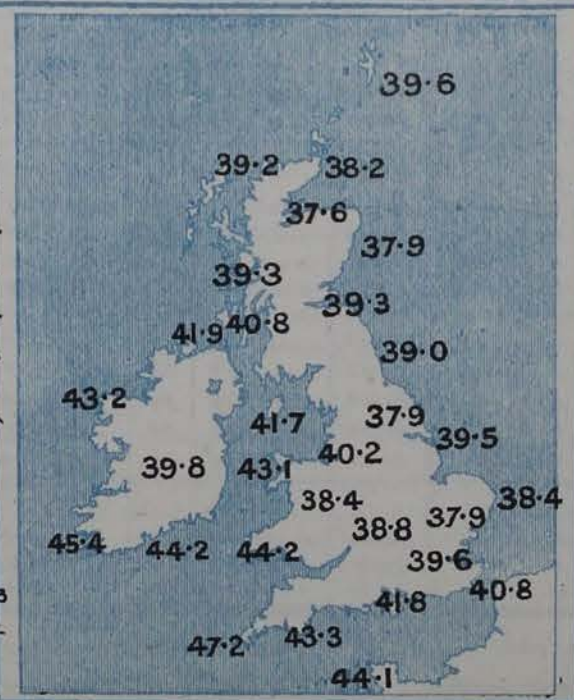


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE

at 8 A.M. for the two monthly period
DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The barometer is now highest 30.5 ins. and upwards, in an anticyclone lying over the Spanish peninsula, France and the Bay of Biscay, and lowest, 28.4 ins. and less, in a deep cyclonic system the centre of which lies over the north of Scandinavia. A well marked secondary disturbance with readings below 29.1 ins. is travelling along in an easterly direction to the northward of the Shetlands, and the barometer is falling generally, - rapidly in the north of Scotland. Gradients are very steep over Scandinavia and the northern parts of the North Sea, and steep over the northern half of the United Kingdom.

WIND

TEMPERATURE

WEATHER

AND

SEA

SW to W winds are reported over north western Europe generally, and blow with the force of a gale on our own extreme north and northwest coasts, as well as at several of the Scandinavian stations. In the west and south of France, calms or light E. airs are reported.

Temperature has risen in most places, the readings in our Islands being considerably above the average for the time of year; in the east of Scotland and the northeast of England where the thermometer is slightly above 50°, the readings are from 12° to 16° above the normal. At some of the western French stations the thermometer is below 40°, while over central France and the southern parts of Germany it is a few degrees below the freezing point. The weather is cloudy or dull over our Islands and the eastern shores of the North Sea, with rain in the north of Scotland and passing showers in isolated parts of England and Ireland; snow is falling at Haparanda. Over the greater part of Sweden, France and South Germany however, the weather is fine. The sea is very high at Christiansund and Stomoway, rough on our extreme north and northwest coasts and rather rough at Cape Gris Nez.

During yesterday the thermometer rose to 50° or slightly above it at several of our western and northern stations; in the east and southeast of England it did not exceed 45°. Very little bright sunshine was registered in the west and north but at Hastings there was as much as 5.7 hours and at Eastbourne and Worthing 5.0 hours. Rain fell in Ireland and the west and north of Scotland as well as at Holyhead.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS *

For the 24 hours ending at NOON on 26th December 1902.

DISTRICTS.

FORECASTS.

- 0 SCOTLAND NORTH
- 1 SCOTLAND EAST
- 2 ENGLAND N.E.
- 3 ENGLAND EAST
- 4 MIDLAND COUNTIES
- 5 ENGLAND SOUTH

None Issued.

DISTRICTS.



FORECASTS.

- 6 SCOTLAND WEST
- 7 ENGLAND N.W.
- 8 ENGLAND S.W.
- 9 IRELAND NORTH
- 10 IRELAND SOUTH

None Issued.

WARNINGS

The South Cone has been hoisted this morning in districts 0 to 2, 6, 7, 9 and 10.

Note.—The South Cone, point downwards (), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone. The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.						
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine Hrs.	Rainfall Ins.	
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °			
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	7c	*	c, 6c	45	34	1.1	—
Newton Reigny (Penrith)	30.18	47	W 6	0	29.92	-.38	49	46	+3	SW 6	6c	*	cmc	50	45	0.0	—	
Bath	30.47	41	W 1	0	30.33	-.19	48	47	+1	W 4	0	*	—	49	34	0.0	—	

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Rainfall.		STATIONS.	TEMPERATURE.		Weather.	Sunshine. Rainfall.	
	Max.	Min.		Hrs.	Ins.		Max.	Min.		Hrs.	Ins.
Harrogate, up to 6 p.m. ...						Worthing	*	*	*	5.0	*
Birmingham, 9 p.m. ...						Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...						Rhyl up to 6 p.m. ...	*	*	*	0.5	*
Hastings	*	*	*	5.7	*	Southport, 9 p.m. ...	48	45	0	0.0	—
Eastbourne up to 6 p.m. ...	*	*	*	5.0	*	Manchester, 9 p.m. ...	48	43	0.9	0.0	—
Brighton	*	*	*	0.8	*	Darwen, 9 p.m. ...					
						Plymouth, 9 p.m. ...	46	35	0.8	0.1	—

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
24. XII. 02									
Madeira (Funchal) <i>not Recd</i>				Ins.	Algiers	64	50	6 c	Ins.
Madrid	52	28	6 m	—	Tunis	61	43	2 m	0.08
Corsica (I. Sanguinaires) ...	59	46	2 2	—	Vienna	41	18	6 c	—
Rome	50	34	6 6	—	St. Petersburg	36	18	5 0	0.08
Florence	45	33	6 6	—		1 p.m.	1 p.m.		Measured 7 a.m.
Trieste	41	30	6 6	—	Lugano	43	—	6	—
Naples	43	36	6 c	—	Davos	19	—	6	—
Palermo	57	43	6 0	—	Lucerne	32	—	6	—
Malta	53	45	? c	—	Lausanne	34	—	6	—

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

25. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8.6	11.53	3.41
Greenwich	8.7	12.0	3.53
Wick	9.5	12.12	3.19
Valencia	8.51	12.41	4.32

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „ Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on Friday, 26th December, 1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)			Weather.	Max.			Min.	
																					Ins.
SCANDINAVIA.	Haparanda ...	28.34	17	E	6	0	28.41	+0.3	9	8	-19	WNW	2	3	*	-	30	9	*	0.04	
	Hernösand ...	28.65	25	Z	0	3	28.71	+0.2	22	21	-15	Z	0	3	*	-	39	9	*	-	
	Stockholm ...	28.49	34	Z	0	0	28.76	-0.41	25	23	-15	N	6	C	*	-	43	9	*	0.47	
	Wisby ...														*	-			*		
	Karlstad ...	28.38	43	SW	8	0	?		28	27	-9	WNW	2	3	*	0.13	*	*	*	0.12	
	Færder (X'ania Fjord)	28.39	42	SSW	9	3	29.17		33	28	-7	WNW	6	3	5	-	43	32	*	-	
	Bodö ...	28.56	28	WNW	4	0	28.43		30	28		W	4	C	3	-	34	25	*	-	
	Christiansund ...	28.68	33	NW	7	5	29.01	-0.20	30	28	-6	NW	8	5	8	-	36	28	*	0.24	
	Skudesnaes ...																		*	*	
	Sumburgh Head	29.11	39	NW	9	C	29.46	+0.38	34	34	-14	W	3	Sp	6	0, C	49	32	*	0.32	
Stormoway ...	29.52	39	NW	7	+	29.76	+0.33	41	39	-8	NW	5	0.2.9	5	+	50	36	0.0	0.81		
Malin Head ...	29.82	48	W	3	0.9	30.00	+0.18	47	44	-2	WSW	7	0	6	7.9.0.9	49	43	*	0.12		
Blacksod Pt. ...	30.06	52	W	7	0.9m	30.15	+0.06	50	49	0	W	5	0m	5	0.0.9m	53	47	*	0.06		
Valencia...	30.28	57	WSW	6	0m	30.34	-0.02	50	50	+1	WSW	4	0m	4	0m.2.0m	52	49	0.0	0.02		
BRITISH ISLANDS.	Roche's Point ...	30.24	57	WNW	4	bc	30.30	-0.05	50	49	+1	NW	4	C	2	0	52	48	*	-	
	Parsonstown ...	30.11	50	W	7	+	30.21	-0.02	48	47	-7	W	5	0.2.9	*	-	51	45	0.0	0.05	
	Donaghadee ...	29.82	52	NW	6	0.9.9	30.06	+0.06	45	43	-4	W	2	C	2	0.9.9	52	42	*	0.03	
	Liverpool Obsy.	29.92	50	W	8	0	30.12	-0.02	45	43	-4	W	6	0	5	0.7.0	53	44	*	0.14	
	Holyhead ...	29.99	51	WSW	7	0.9.9m	30.17	-0.07	47	45	-1	W	?	mg	5	0.9.9m	51	45	*	-	
	Pembroke (St. Ann's)	30.16	49	WSW	7	C	30.23	-0.08	51	48	+2	W	5	C.9.9	4	0.7.0	52	47	0.0	-	
	Scilly (St. Mary's)...	30.34	50	W	7	0.7.9m	30.36	-0.10	49	47	0	W	6	C	4	0.0.7.9m	52	47	0.4	0.01	
	Jersey (St. Aubins)...																				
	Portland Bill ...	30.22	49	WNW	5	0	30.26	-0.14	49	48	+1	WNW	5	C	4	C.0	50	47	*	-	
	Dungeness ...	30.11	48	W	8	C	30.18	-0.15	47	46	+2	NNW	1	0.7.0	3	0.1.0	50	44	*	-	
Wick ...	29.41	40	WNW	6	0	29.61	+0.27	38	38	-12	NW	5	0	3	0.7.5.9	50	36	*	0.63		
Nairn ...	29.61	39	WNW	4	0	29.76	+0.25	39	39	-13	W	4	+	2	-	52	36	*	0.45		
Aberdeen ...	29.47	40	WNW	9	0.7.9	29.73	+0.19	41	36	-12	WSW	4	0.9	3	0.7.9	52	36	0.0	0.15		
Leith ...	29.61	47	W	3	0	29.87	+0.12	42	39	-10	WSW	4	C	*	-	52	39	*	0.09		
North Shields ...	29.59	51	WSW	7	0.7	29.93	+0.01	42	40	-9	WSW	3	0	2	0.7.0	54	41	*	-		
GERMANY, &c.	Spurn Head ...	29.68	48	SW	8	C	29.98	-0.20	44	43	-2	W	5	C.9	3	-	51	43	*	-	
	Yarmouth ...	29.85	50	WSW	5	0	30.04	-0.13	44	41	0	W	4	bc	4	C.0	57	40	*	-	
	Loughborough ...	29.94	50	SW	7	C	30.10	-0.09	45	41	-2	WNW	6	0.9	*	C.0.9.0.9	52	44	*	-	
	Oxford ...	30.08	49	WSW	1	0	30.19	-0.10	46	42	-1	WSW	2	0	*	C.9.0	50	46	*	-	
	London (Brixton)	30.11	50	WSW	6	C.9	30.18	-0.12	47	43	+3	WSW	2	0	*	0.9	51	44	0.0	-	
	The Scaw (Skagen)	28.66	44	WNW	8	m	29.24	-0.34	36	32	-5	NW	8	bc	*	-	45	34	*	0.32	
	Fanö ...	29.19	44	SW	5	3	29.60	-0.28	37	35	-4	NW	8	0	*	-	45	36	*	-	
	Cuxhaven ...	29.64	42	SW	7	0	29.72	-0.31	37	36	-3	NW	8	0.7.9	*	-	45	37	*	0.20	
	The Helder ...	29.76	46	WSW	7	0	29.95	-0.18	42	40	0	WNW	4	bc	5	-	46	42	*	-	
	Brussels...						30.15		44	42	+10	WNW	2	0	*	-	47	34	*	0.16	
Berlin ...	29.75	39	WSW	4	0	29.61	-0.49	38	37	+2	NW	5	C	*	-	45	36	*	0.16		
Frankfurt ...	30.15	38	SW	4	0	30.05	-0.34	40	39	+13	SW	4	0	*	-	?	37	*	0.04		
Munich ...	30.29	39	SW	5	bc	30.10	-0.33	39	35	+13	SW	8	0	*	-	41	27	*	-		
FRANCE.	C. Gris Nez ...	30.12	47	SW	7	0	30.18	-0.16	47	45	+1	WNW	5	0	5	-	48	43	*	0.04	
	Brest ...	30.49	49	N	2	bc	30.45	-0.08	49	49	+7	WNW	3	0	?	-	?	?	*	-	
	Lorient ...	30.49	50	NW	3	C	30.45	-0.05	50	50	+12	WSW	4	bc	4	-	50	38	*	-	
	Rochefort ...	30.50	38	Z	0	m	30.50	+0.01	48	48	+15	NNW	2	+	*	-	48	32	*	-	
	Biarritz ...																				
	Paris ...	30.43	32	SW	3	f	30.30	-0.20	41	41	+14	SW	4	0	*	-	48	27	*	-	
	Belfort ...																				
	Lyons ...	30.55	28	NW	1	3	30.57	-0.01	27	27	-2	NW	1	0	*	-	34	25	*	-	
	Nice ...	30.39	42	E	2	3	30.20	-0.24	39	37	+3	Z	0	0	1	-	50	36	*	-	
	Perpignan ...	30.50	49	NW	2	C	30.47	-0.03	48	41	+2	NW	5	0	*	-	57	42	*	-	
SPAN. PEN.	Corunna ...																				
	Lisbon ...	30.49	50	NNE	4	3	30.54	+0.04	45	41	+1	NNE	4	3	*	-	52	44	*	-	
	Azores (P. Delgada)	30.36	62	ESE	6	bc	30.35	+0.04	62	59	0	SE	5	bc	6	-	64	61	*	-	
	" (Norta)	30.31	63	SSE	5	3	30.28	+0.02	64	59	+3	ESE	5	0	3	-	66	61	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR Friday 26th DECEMBER, 1902.

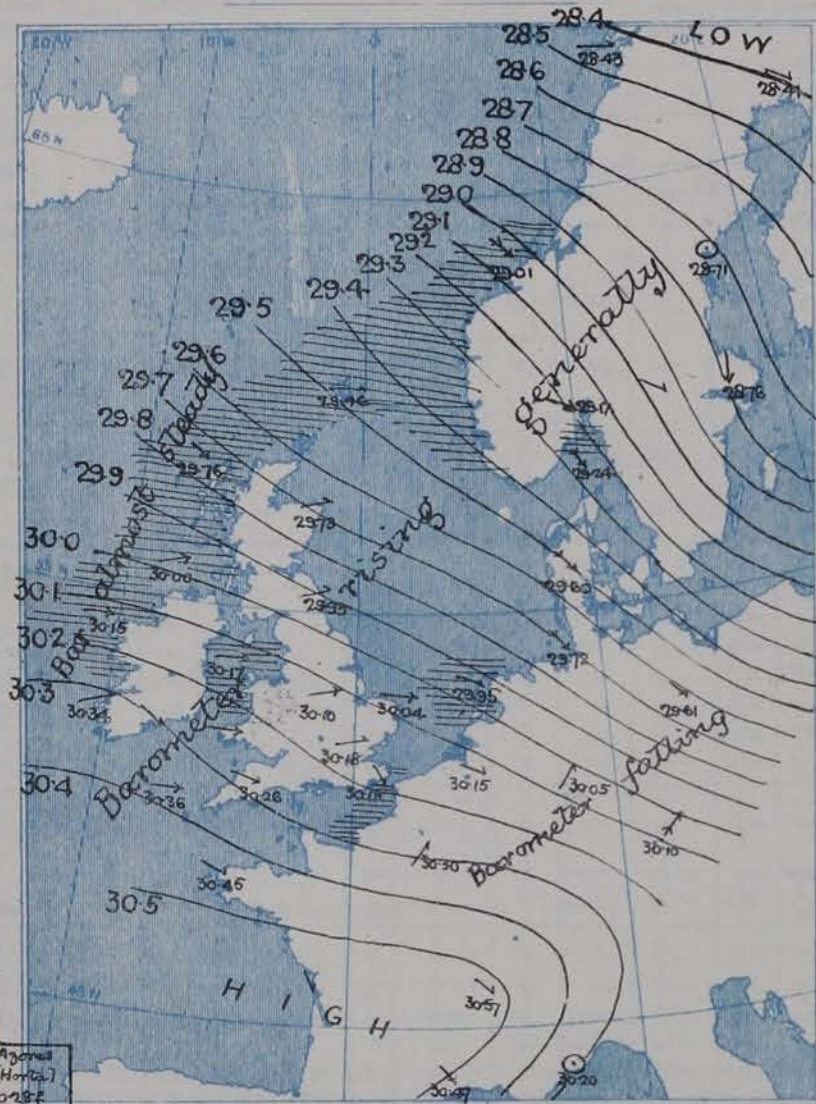
I. BAROMETER, WIND AND SEA. This Morning.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough High



II. TEMPERATURE AND WEATHER. This Morning.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus → 0.6

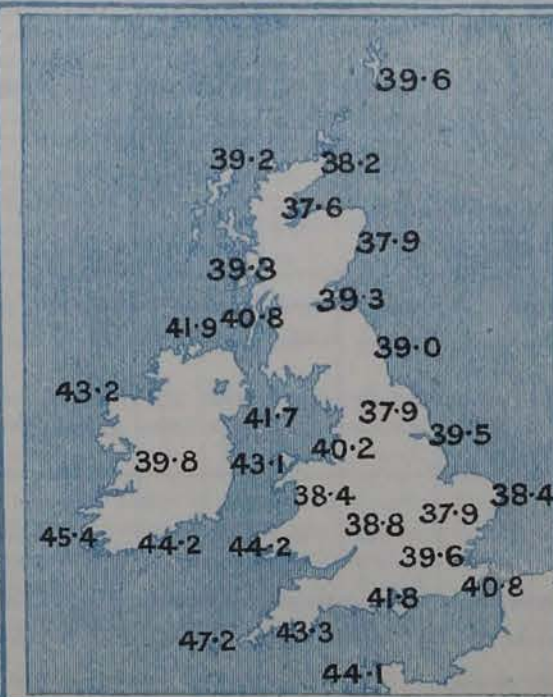


III. BAROMETER AND WIND

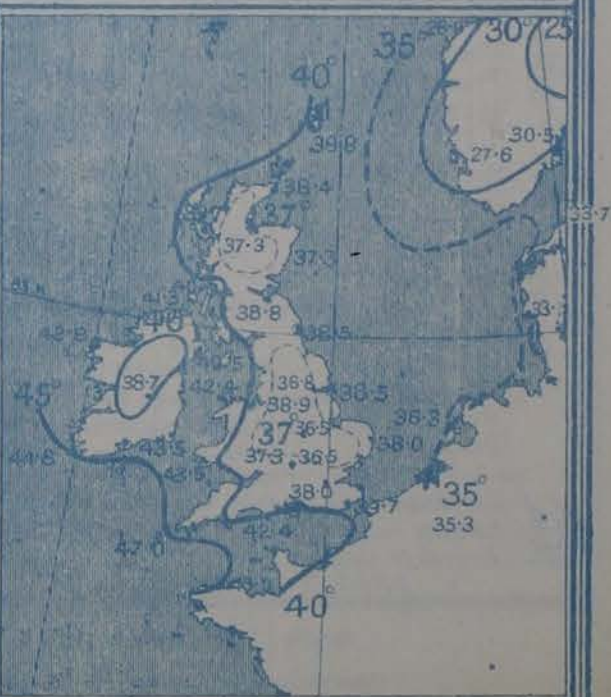
Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

This morning barometric pressure ranges from between 30.5 in. and 30.3 in. over the Bay of Biscay, west of France and south-west of the British Islands, to about 28.4 in. over Lapland, the actual readings being 30.57 in. at Lyons and 28.41 in. at Haparanda. The mercury is now rising briskly in the north, but scarcely at all over Ireland.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind is W^y over the United Kingdom generally and is strong or squally in places; over the North Sea, the Baltic and Scandinavia it is more N^y and is blowing a gale in several places, while in South Germany there is a gale from S.W. Temperature in the British Islands varies from 50° in the south and west of Ireland, to 34° at Lurnburgh Head. In Ireland and England it is several degrees above the average, but in the extreme north of Scotland it is low. On the Continent the values are 41° F. at Paris, 44° at Brussels, 38° at Berlin, 25° at Stockholm and 9° at Haparanda. The weather at present is fair over France and our southern districts, but is dull in the north, with rain, hail or snow in several parts of Scotland, and is in an unstable condition generally. The sea is rough except along our south coast.

Last night there was a heavy W^y gale in several parts of Scotland and considerable W^y gusts were felt even in London. Rain fell except at our southern and eastern stations. Bright sunshine was almost entirely absent.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Mild, unsettled weather is still likely over our northern districts, with rain at times; renewed gales are probable again shortly.

FORECASTS *

For the 24 hours ending at NOON on 27th December, 1902

DISTRICTS.

FORECASTS.

- 0 $\overline{\uparrow}$ { SCOTLAND NORTH
- 1 $\overline{\uparrow}$ { SCOTLAND EAST
- 2 $\overline{\uparrow}$ { ENGLAND N.E.
- 3 $\overline{\uparrow}$ { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

Varying W^y winds, strong; squally, some showers, colder.

W^y to N.W^y winds, fresh to strong; fair. Wind backing.

DISTRICTS.

FORECASTS.

- 6 $\overline{\uparrow}$ { SCOTLAND WEST
- 7 $\overline{\uparrow}$ { ENGLAND N.W.
- 8 $\overline{\uparrow}$ { ENGLAND S.W.
- 9 $\overline{\uparrow}$ { IRELAND NORTH
- 10 $\overline{\uparrow}$ { IRELAND SOUTH

Same as Nos. 0 to 2.

Same as Nos. 3 to 5.

W^y to S.W^y winds, fresh at first, increasing later; fair to showery. Mild
At 9.30 a.m. yesterday to districts 0 to 2 and 6 to 10, and at 7 p.m. to district 3, Hoist South Cone.

WARNINGS

Note.—The South Cone, point downwards ($\overline{\uparrow}$), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards ($\overline{\uparrow}$), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer. Ins. Change.	Temperature. Dry. Wet. Change.			Wind.	Weather.	Sea.	Weather.	Temperature. Max. Min.		Sun- shine. Hrs.	Rainfall Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	C	*	0	51	42	0.2	0.02
Newton Reigny (Penrith)	29.73	47	WSW 8	+	29.95 +0.23	41	40	-8	W 6	09	*	09†	52	40	0.0	0.18
Bath	30.18	49	W 7	0	30.22 -0.11	49	46	+1	W 1	0	*	-	51	47	0.0	-

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	51	45	0, C	0.0	0.02	Worthing	*	*	*	1.0	*
Birmingham, 9 p.m. ...	50	37	C	0.6	-	Llandudno	*	*	*	0.2	*
Lowestoft, up to 6 p.m. ...	*	*	*	*	*	Rhyl up to 6 p.m. ...	*	*	*	*	*
Hastings	*	*	*	*	*	Southport, 9 p.m. ...	51	46	09	0.9	0.03
Eastbourne up to 6 p.m. ...	*	*	*	0.9	*	Manchester, 9 p.m. ...	Plymouth, 9 p.m. ... Not recd.				
Brighton	*	*	*	0.5	*	Darwen, 9 p.m. ...					

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
25. XII. 02									
Madeira (Funchal)				Ins.	Algiers				Ins.
Madrid					Tunis				
Corsica (I. Sanguinaires) ...					Vienna				
Rome					St. Petersburg				
Florence					24. XII. 02				
Trieste					Lugano	39	—	0	—
Naples					Davos	25	—	6	—
Palermo					Lucerne	30	—	0	—
Malta					Lausanne	34	—	0	—
Information not Recd.									
						1 p.m.		1 p.m.	Measured 7 a.m.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corres- ponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corres- ponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

26. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8. 6	11. 54	3. 42
Greenwich	8. 7	12. 1	3. 54
Wick	9. 5	12. 13	3. 20
Valencia	8. 57	12. 42	4. 33

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls, at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 5 p.m.

DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 27th December*

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.



STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9.)	Weather.	Temp.			Sun- shine Hours	Rainfall. Ins.	
				At 82° and M.S.L.	Dry Bulb.		Dirac.	Force (0 to 12.)	At 82° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.			Dirac.	Force (0 to 12.)	Max.			Min.
		Ins.					Ins.	Ins.	°	°											
SCANDINAVIA.	Haparanda ...	28.39	10	W	2	S	28.71	+30	11	11	+2	NE	4	S	*	-	16	5	*	0.04	
	Hernösand ...	28.67	29	NW	2	0	28.81	+10	29	28	+7	N	4	S	*	-	30	19	*	-	
	Stockholm ...	29.00	24	N	4	0	29.04	+28	25	23	0	W	6	bc	*	-	39	24	*	-	
	Wisby ...														*	-			*	-	
	Karlstad ...	29.25	25	WNW	4	0	29.31		24	21	-4	WNW	2	0	*	-	*	*	*	-	
	Færder (X'ianha Fjord)	29.28	32	WNW	6	0	29.38	+21	32	31	-1	WNW	6	0	3	-	34	32	*	-	
	Bodö ...	28.71	28	WNW	6	0	28.92	+49	26	23	-4	ESE	2	0	1	-	30	25	*	-	
	Christiansund ...	29.14	31	NW	9	S	29.34	+33	31	29	+1	WNW	8	S	8	-	32	30	*	0.12	
	Skudesnaes ...	29.44	36	NW	6	C	29.58		35	31		NW	4	0	4	C	36	30	*	-	
	Sumburgh Head ...	29.43	34	Z	0	0	29.46	.00	36	36	+2	SE	3	T	5	0	37	34	*	0.31	
	Stornoway ...	29.61	46	WSW	4	0	29.56	-20	50	48	+9	W	5	ctg	5	0	51	38	0.0	0.19	
	Malin Head ...	29.91	50	W	8	07mg	29.84	-16	49	47	+2	SW	7	09p	6	0.7mg	50	45	*	0.16	
	Blacksod Pt. ...	30.15	52	W	5	07m	30.01	-14	50	49	0	SW	6	cm	5	cm, 07m	52	49	*	-	
	Valencia ...	30.36	51	WSW	3	0	30.23	-11	49	47	-1	SW	3	C	4	0m, 0	52	48	0.0	0.09	
	Roche's Point ...	30.32	52	NW	3	0	30.25	-10	49	48	-1	W	4	0m	2	C, 0	53	48	*	-	
	Parsonstown ...	30.20	50	W	6	0	30.14	-07	47	45	-1	SW	4	0m	*	C, 0	51	46	0.1	-	
	Donaghadee ...	29.98	50	W	7	cg	30.01	-05	48	45	+3	W	3	bc	3	C, g	51	42	*	0.01	
BRITISH ISLANDS.	Liverpool Obsy. ...	30.05	49	W	7	0	30.07	-05	48	45	+3	W	6	C	5	-	50	45	*	-	
	Holyhead ...	30.10	50	W	6	bc	30.14	-03	49	47	+2	WSW	5	0p	4	C, bc	50	45	*	-	
	Pembroke (St. Ann's) ...	30.25	51	W	6	C	30.24	+01	50	48	-1	W	6	0g	5	C, p	52	47	0.2	0.01	
	Scilly (St. Mary's) ...	30.38	50	WNW	6	omp	30.37	+01	51	49	+2	W	5	C	4	0, omp	53	47	0.1	-	
	Jersey (St. Aubins) ...																				
	Portland Bill ...	30.28	50	WNW	4	C	30.29	+03	49	47	0	W	4	C	4	C	51	47	*	-	
	Dungeness ...	30.19	48	W	4	bc	30.20	+02	48	47	+1	W	5	C	2	C, bc	50	45	*	-	
	Wick ...	29.58	42	WNW	5	0	29.51	-10	48	47	+10	WNW	4	0t	3	-	48	36	*	0.45	
	Nairn ...	29.63	44	WSW	2	0	29.59	-17	51	48	+12	WSW	4	bc	2	-	51	38	*	0.06	
	Aberdeen ...	29.63	42	SW	2	0p	29.62	-11	48	44	+7	SW	2	C	1	0, 0p	51	40	0.0	0.01	
	Leith ...	29.69	50	WSW	5	bc	29.76	-11	51	48	+9	WSW	4	0	*	-	52	40	*	-	
	North Shields ...	29.77	50	W	5	0	29.89	-04	50	47	+8	W	3	C	2	0, 0p	50	48	*	-	
	Spurn Head ...	29.88	45	W	6	C	29.98	.00	47	46	+3	WSW	6	bcg	4	-	50	43	*	-	
	Yarmouth ...	30.00	46	W	4	C	30.03	-01	46	44	+2	W	4	bc, c	4	bc, C	47	41	*	-	
	Loughborough ...	30.08	50	W	6	0	30.10	.00	46	44	+1	WSW	4	bc	*	C, 0, bcg	50	45	*	-	
	Oxford ...	30.19	49	W	4	C	30.20	+01	46	44	0	WSW	2	0	*	C, 2	50	45	*	-	
GERMANY, &c.	London (Brixton) ...	30.15	51	WNW	3	C	30.19	+01	48	45	+1	WNW	2	bc	*	0, c, g	51	45	0.0	-	
	The Scaw (Skagen) ...	29.36	36	NW	7	0	29.43	+19	36	32	0	NW	6	0	2	-	37	26	*	-	
	Fanö ...	29.61	39	W	4	T	29.67	+07	41	40	+4	WNW	4	bc	*	-	41	36	*	1.18	
	Cuxhaven ...	29.76	39	W	6	0	29.77	+05	42	41	+5	W	5	0	*	-	42	37	*	0.20	
	The Helder ...	29.92	43	W	5	0	29.93	-02	45	43	+3	W	5	C	6	-	45	42	*	-	
	Brussels ...		*	*	*	*	30.19	+04	46	45	+2	WSW	3	r	*	-	47	40	*	-	
	Berlin ...	29.70	40	WNW	6	0	29.69	+08	42	41	+4	W	4	C	*	-	42	36	*	0.20	
	Frankfurt ...	30.09	42	SW	4	0	30.11	+06	46	44	+6	SW	4	0	*	-	46	40	*	0.04	
FRANCE.	Munich ...	30.14	38	W	7	0	30.19	+09	42	40	+3	SW	7	0	*	-	43	38	*	0.04	
	C. Gris Nez ...	30.17	46	W	5	C	30.18	.00	48	47	+1	W	5	0	5	-	48	45	*	-	
	Brest ...	30.48	52	NNW	3	0	30.46	+01	49	48	0	NW	3	C	3	-	52	46	*	-	
	Lorient ...	30.36	51	W	4	0	30.49	+04	48	48	-2	NW	2	C	2	-	52	46	*	-	
	Rochefort ...	30.49	48	W	2	0	30.47	-03	49	47	+1	Z	0	0	*	0	52	46	*	0.08	
	Biarritz ...	30.63	50	NW	3	0	30.62		50	49		Z	0	0	2	-	54	46	*	0.04	
	Paris ...	30.34	45	WSW	4	0	30.37	+07	48	45	+7	W	3	0	*	-	50	41	*	-	
	Belfort ...	30.30	39	W	5	T	30.37		41	41		WSW	4	T	*	-	41	38	*	0.67	
SPAN.	Lyons ...	?	37	NE	1	0	30.53	-04	41	41	+14	SE	1	0f	*	-	44	27	*	0.04	
	Nice ...	30.11	42	E	3	0	30.19	-01	42	42	+3	Z	0	bc	2	-	46	39	*	-	
	Perpignan ...	30.48	51	NW	5	bc	30.43	-04	50	44	+2	NW	2	0	*	-	53	48	*	-	
	Corunna ...																	*	-		
	Lisbon ...	30.49	49	NNE	5	0	30.49	-05	43	40	-2	N	3	0	*	-	54	43	*	-	
	Azores (P. Delgada) ...																	*	-		
	" (Norta) ...	30.28	63	ESE	5	C	30.26	-02	63	60	-1	E	4	0	2	-	66	63	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Saturday, 27th December, 1902.*

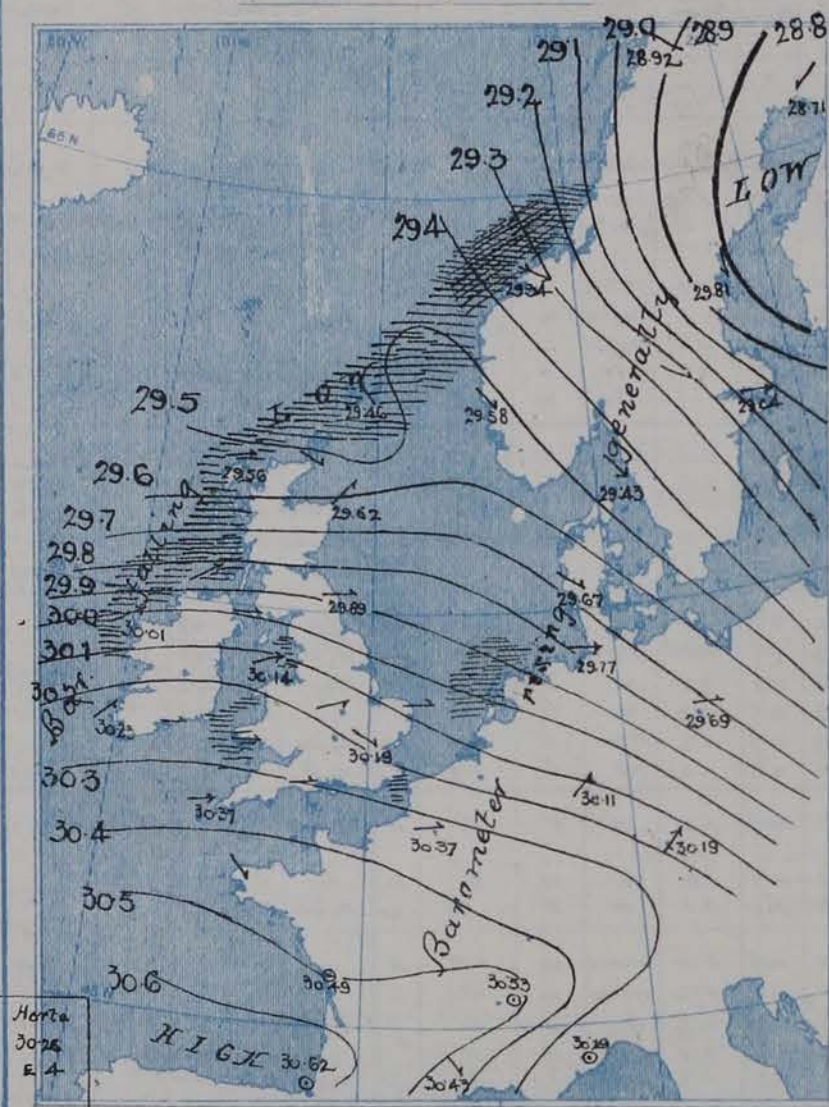
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough High



II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0.6

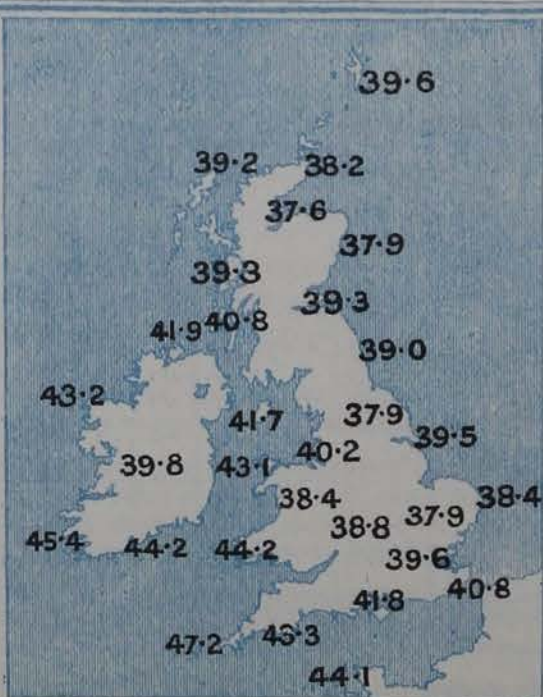


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Barometric pressure is now highest over the Bay of Biscay and the west of France, lowest over Finland, the highest value reported at present being 30.62 in. at Biarritz, and the lowest 28.71 in. at Haparanda (Gulf of Bothnia). At all the north-eastern stations the barometer has risen, but in Ireland it is now falling fast.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind has subsided from N.W. and W. in most places, and is moderate over England and France generally. In Ireland, however, it is backing to the S.W. and at Malin Head it is blowing a gale. Temperature has risen fast at our northern stations and in Sweden. In our Islands it varies from between 46° and 51°, and is very much above the average, especially in the north and east. The weather this morning is very fine over the eastern half of Great Britain; in the west and over Ireland it is more cloudy, and at some stations rain is falling. The sea is rough on our extreme north and west coasts and at the Helles, smooth off the north-east of Great Britain.

During yesterday the thermometer touched 53° at Roche's Point and Scilly, and exceeded 50° in most parts of the Kingdom; at Biarritz it touched 54°. The night was warm generally. A little rain fell in the north and west, and much more in Denmark, Germany and the east of France. Bright sunshine, however, was again very deficient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is apparently advancing to us from the south-westward, and strong S.W. winds, or gales, with dull, squally weather and high temperatures are likely to be experienced generally. Our west and north-west coasts have all been warned.

FORECASTS *

For the 24 hours ending at NOON on 28th December, 1902

DISTRICTS.

FORECASTS.

- 0th { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

W^{ly} to S^{ly} winds, increasing in force, with rain; mild air.

S.W. winds, moderate; fair, warm, then increasing greatly, with some rain.

DISTRICTS.

FORECASTS.

- 6th { SCOTLAND WEST
- 7th { ENGLAND N.W.
- 8th { ENGLAND S.W.
- 9th { IRELAND NORTH
- 10th { IRELAND SOUTH

S.W. and W. gales and strong winds; rainy, squally, unsettled.

WARNINGS

At 9.55 a.m. to-day to districts 6 to 10 and part of 0, 'Hoist South Cone'.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (\Uparrow), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	bc	*	b	48	41	4.0	—
Newton Reigny (Penrith)	29.87	48	w 7	7	29.92	-0.03	47	45	+6	w 6	og	*	ogt	49	41	0.0	0.05
Bath	30.24	49	w 4	0	30.23	+0.01	49	47	0	w 3	0	*	—	51	48	0.0	—

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	50	42	o, c	0.0	0.12	Worthing	*	*	*	0.0	*
Birmingham, 9 p.m. ...	50	42	o, c	0.0	—	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. ...	*	*	*	0.0	*	Rhyl up to 6 p.m. ...	*	*	*	0.9	*
Hastings	*	*	*	0.0	*	Southport, 9 p.m. ...	49	44	o, c, o	0.0	—
Eastbourne up to 6 p.m. ...	*	*	*	0.0	*	Manchester, 9 p.m. ...	51	43	og	0.0	0.03
Brighton	*	*	*	0.3	*	Darwen, 9 p.m. ...	47	38	o, b, 29, og	0.0	0.02
						Plymouth, 9 p.m. ...					

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
26. XII. 02									
Madeira (Funchal) <i>Not Recd.</i>				Ins.	Algiers	61	48	b c	Ins.
Madrid	50	30	b c	—	Tunis	57	37	o o	—
Corsica (I. Sanguinaires) ...	55	45	o o	—	Vienna	46	43	b o	—
Rome	47	32	b o	—	St. Petersburg	36	27	b s	0.12
Florence	41	33	b o	—		1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	43	32	b o	—	Lugano ... 25. XII. 02	not yet recd.			
Naples	48	39	b c	—	Davos	—			
Palermo	55	38	b c	—	Lucerne	—			
Malta	52	43	? c	—	Lausanne	—			

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard Time.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

27. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8. 6	11. 54	3. 43
Greenwich	8. 8	12. 1	3. 55
Wick	9. 5	12. 13	3. 21
Valencia	8. 51	12. 42	3. 34

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„ Weekly „ „ „ £1 10 0 „ Single Copies, 6d.

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† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

SUNDAY 28TH DECEMBER

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.	WIND.		BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine Hours	Rainfall. Ins.	
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather.	At 32° Fahr. and M.S.L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.			Max.	Min.			
																					Ins.
SCANDINAVIA.	Haparanda ...	29.07	25	N	2	0	29.32	+6.1	9	8	-2	N	2	b	*	-	25	1	*	-	
	Hernösand ...	29.30	22	Z	0	b	29.30	+4.9	5	4	-2.4	Z	0	bc	*	-	32	?	*	0.12	
	Stockholm ...	29.32	25	W	6	b	29.30	+2.6	2.1	2.0	-4	Z	0	o	*	-	28	?	*	-	
	Wisby ...	29.38	32	NW	8	b	29.41		30	28		S	4	o	*	-	32	28	*	-	
	Karlstad...	29.50	22	W	4	b	29.26	-0.5	26	25	+2	SE	6	s	*	-	*	*	*	0.04	
	Færder (X'ania Fjord)	29.54	31	WNW	2	b	29.02	-3.6	38	38	+6	S	2	m	3	-	38	30	*	0.08	
	Bodö ...	29.24	19	E	2	b	29.18	+2.6	22	20	-4	E	5	b	1	-	27	18	*	-	
	Christiansund	29.40	30	WNW	8	o	28.78	+4.4	39	36	+8	S	5	t	7	-	39	30	*	-	
	Skudesnaes	29.48	35	S	6	o	28.99	+5.9	43	38	+8	W	6	o	5	0	43	34	*	*	
BRITISH ISLANDS.	Sumburgh Head	29.11	47	WSW	4	o	28.70	-7.6	36	35	0	WSW	4	o	6	t, o	48	34	*	0.62	
	Stornoway ...	29.08	49	SW	7	t	28.76	-8.0	36	34	-1.4	W	5	bh, q	5	o, t	50	33	0.0	0.35	
	Malin Head ...	29.38	49	SW	10	ogm	29.14	-7.0	34	34	-1.5	NW	9	og, tsh	8	o, agm	50	34	*	0.26	
	Blacksod Pt. ...	29.57	51	SW	8	opgm	29.40	-6.1	38	36	-1.2	WNW	9	bcq, hpm	7	ogm, p	53	38	*	0.30	
	Valencia...	29.86	52	SW	6	ogw	29.73	-5.0	42	40	-7	WSW	9	c	7	om, ogu	52	40	0.0	0.19	
	Roche's Point ...	29.96	51	WSW	5	dp	29.74	-5.1	44	42	-5	WSW	6	t	5	c, op, l	52	42	*	0.04	
	Parsonstown ...	29.76	50	SW	7	t	29.57	-5.7	36	34	-1.1	W	9	cq	*	o, thq	51	35	0.1	0.37	
	Donaghadee ...	29.65	50	WSW	5	c	29.37	-6.4	35	34	-1.3	WNW	5	og	4	-	51	33	*	0.03	
	Liverpool Obsy.	29.87	49	WSW	5	c	29.50	-5.7	41	37	-7	W	8	bc	6	c, p	51	39	*	0.06	
GERMANY, &c.	Holyhead ...	29.88	50	SW	8	ogq	29.53	-6.1	42	40	-7	W	8	cq, p	7	c, ogq	50	40	*	0.11	
	Pembroke (St. Ann's)	30.00	51	WSW	5	c	29.68	-5.6	47	43	-3	WSW	8	cgq, pmu	7	-	52	42	0.6	0.10	
	Scilly (St. Mary's)...	30.18	51	SW	6	o	29.88	-4.9	50	48	-1	W	7	c	6	omp, o	53	47	1.2	0.01	
	Jersey (St. Aubins)...																				
	Portland Bill ...	30.17	48	WSW	4	cp	29.82	-4.7	48	45	-1	WSW	6	cq	4	c, cp	50	45	*	0.02	
	Dungeness ...	30.12	48	W	5	c	29.78	-4.2	48	47	0	WSW	6	bc	5	c	51	47	*	0.04	
	Wick ...	29.18	48	WNW	5	bc	28.81	-7.0	33	33	-1.5	W	4	su	3	bc, s	52	30	*	0.08	
	Nairn ...	29.17	51	WSW	5	bc	28.88	-7.1	33	33	-1.8	WSW	3	o	2	-	51	31	*	0.31	
	Aberdeen ...	29.33	48	S	5	cq	28.98	-6.4	34	32	-1.4	SW	4	bcq	2	bc, cq	53	34	1.8	0.04	
FRANCE.	Leith ...	29.51	51	SW	5	o	29.11	-6.5	35	33	-1.6	SW	5	q, t, sp	*	o, q, t, sp	51	33	*	0.16	
	North Shields ...	29.68	50	SW	3	o	29.30	-5.9	35	34	-1.5	SW	5	rsq	3	bc, o, t, sp	52	35	*	0.06	
	Spurn Head ...	29.84	48	SW	5	bc	29.45	-5.3	41	40	-6	WSW	6	bcq	4	bc, qp	51	40	*	0.02	
	Yarmouth ...	29.96	48	W	4	c	29.59	-4.4	45	43	-1	W	6	bcq	4	bc, c	50	43	*	0.10	
	Loughborough ...	29.96	48	SSW	6	o	29.61	-4.9	42	40	-4	SW	6	cq	*	c, bcq, p	52	42	*	0.03	
	Oxford ...	30.00	47	WSW	3	o	29.71	-4.9	45	42	-1	WSW	4	bcq, p	*	o, qp	51	44	*	0.02	
	London (Brixton)	30.09	48	WNW	3	c	29.73	-4.6	46	43	-2	WSW	6	b	*	b, o, c, t	52	45	3.1	0.06	
	The Scaw (Skagen)	29.55	37	N	2	c	29.12	-3.1	41	41	+5	WSW	5	t	2	-	41	36	*	0.20	
	Fanö ...	29.66	40	W	4	b	29.35	-3.2	42	41	+1	SW	6	b	*	-	42	39	*	0.28	
SPAN. PEN.	Cuxhaven ...																				
	The Helder ...	29.93	43	SW	4	b	29.54	-3.9	45	43	0	SW	7	b	5	-	45	43	*	0.08	
	Brussels...	*	*	*	*	*	29.86	-3.3	44	42	-2	SW	7	t	*	-	49	43	*	0.08	
	Berlin ...	30.13	46	N	5	o	29.74	+0.5	43	42	+1	WSW	4	o	*	-	48	41	*	0.04	
	Frankfurt ...	30.17	45	SW	2	o	29.99	-1.2	44	41	-2	SW	4	o	*	-	48	41	*	0.04	
	Munich ...	30.24	41	N	6	o	30.12	-0.7	36	34	-6	SW	5	c	*	-	45	32	*	0.04	
	C. Gris Nez ...	?	47	WSW	5	o	29.79	-3.9	47	45	-1	SW	7	t	7	-	48	45	*	0.28	
	Brest ...	30.33	49	WNW	3	o	30.06	-4.0	51	49	+2	WNW	4	c	4	-	52	48	*	0.04	
	Lorient ...	30.37	48	W	3	o	30.09	-4.0	51	51	+3	W	5	f	4	-	52	46	*	-	
Rochefort ...	30.39	48	SW	3	f	30.20	-2.7	47	46	-2	S	3	o	*	c, f	52	43	*	0.04		
SPAN. PEN.	Biarritz ...	30.45	52	Z	0	o	30.35	-2.7	48	46	-2	SSW	2	o	2	-	54	46	*	-	
	Paris ...	30.31	46	SW	3	o	30.08	-2.9	44	43	-4	SW	5	o	*	-	49	43	*	-	
	Belfort ...	30.33	42	WSW	5	o	30.15	-2.2	39	37	-2	WSW	6	o	*	-	43	38	*	0.08	
	Lyons ...	30.45	44	NNW	1	o	30.30	-2.3	40	37	-1	W	1	o	*	-	47	40	*	-	
SPAN. PEN.	Nice ...	30.20	48	Z	0	o	30.15	-0.4	46	42	+4	E	1	o	2	-	54	42	*	-	
	Perpignan ...	30.34	50	NW	4	b	30.25	-1.8	43	40	-7	NW	2	b	*	-	57	34	*	-	
	Corunna ...																				
SPAN. PEN.	Lisbon ...	30.41	50	NNE	3	b	30.38	-1.1	42	41	-1	NNE	1	c	*	-	54	41	*	-	
	Azores (P. Delgada)	30.40	61	ESE	5	c	30.42	+1.0	60	55	-2	ENE	3	c	4	-	64	57	*	-	
	" (Horta)	30.40	62	E	4	o	30.42	+1.6	60	58	-3	NW	3	c	2	-	64	59	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

† Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Sunday, 28th December, 1902.*

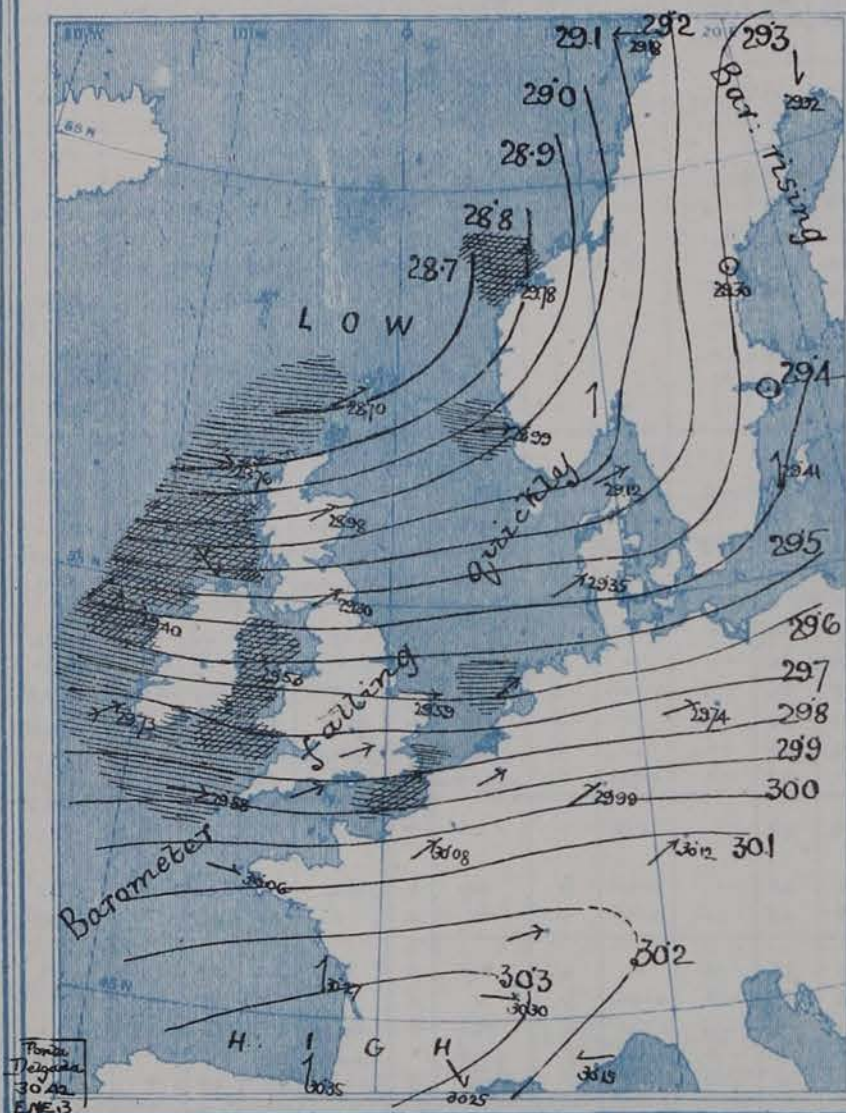
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA.—Rough High

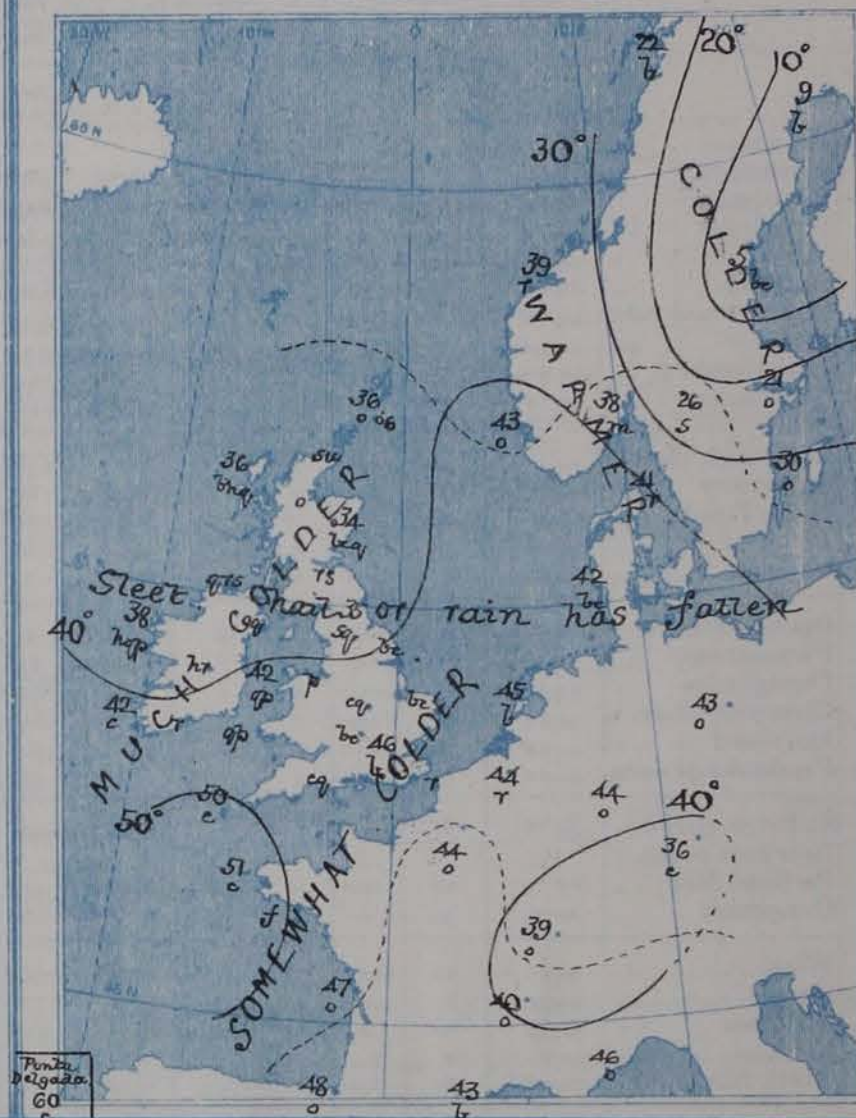


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus — 0.6

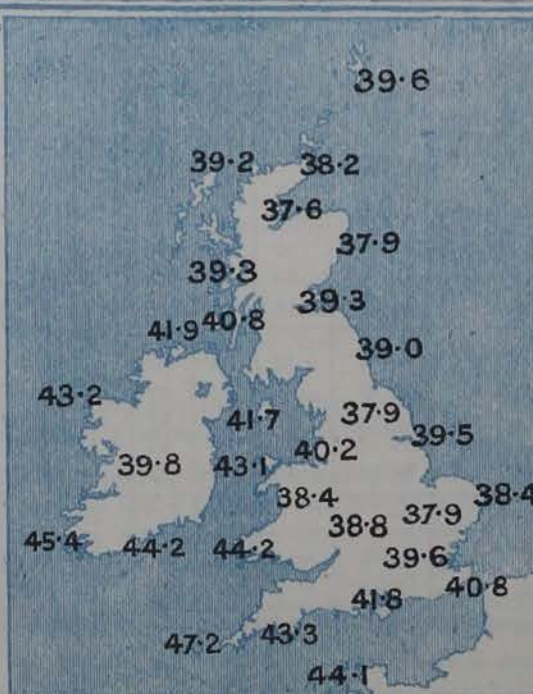


III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

A cyclonic disturbance of considerable depth has spread over western Europe from the Atlantic, the centre of the system, with readings below 28.7 ins. being now found to the northward of the Shetlands. The barometer is falling over western Europe generally and a steep gradient is reported over the whole of these Islands and the North Sea. The highest pressures, 30.3 ins. and upwards, are found in an anticyclone lying over the Spanish peninsula and the southwest of France.

WIND

The wind is SW or W over western Europe generally and blows with the force of a gale on all our own western coasts. In the southern parts of Scandinavia, however, it draws into the S^W while in Sweden it is calm or rather variable. Temperature has fallen at all but the Norwegian and Danish stations. In the southern parts of the United Kingdom the readings are still above the average but in the north they are below it, the thermometer being below 35° in many places and as low as 33° at Wick and Naïon. Frost prevails in Scandinavia the lowest temperatures at present reported being 5° at Helsingfors and 9° at Kaparanda.

TEMPERATURE

WEATHER

AND

SEA

The weather is fine in the east and southeast of England, as well as in the northern parts of Scandinavia but is cloudy elsewhere, with hail or snow a good deal at several of our own northern stations; rain is falling at Brussels and Christiansund and snow at Karlstad.

The sea is high or rough on all our western and northern coasts and also in the Straits of Dover but moderate or slight elsewhere.

During yesterday the thermometer rose to 50° and upwards over the United Kingdom generally and to 53° at Aberdeen and Blackhead. The amount of bright sunshine was everywhere small; at many of our western stations there was none.

Rain has fallen in nearly all parts of northwestern Europe, lightning was seen last night at Roches Point and a thunderstorm occurred this morning at Scarborough.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS *

For the 24 hours ending at NOON on 29TH DEC., 1902

DISTRICTS.

FORECASTS.

- 0 \nwarrow SCOTLAND NORTH
- 1 \nwarrow SCOTLAND EAST
- 2 \nwarrow ENGLAND N.E.
- 3 \nwarrow ENGLAND EAST
- 4 \nwarrow MIDLAND COUNTIES
- 5 \nwarrow ENGLAND SOUTH

None

issued.

DISTRICTS.

FORECASTS.

- 6 \nwarrow SCOTLAND WEST
- 7 \nwarrow ENGLAND N.W.
- 8 \nwarrow ENGLAND S.W.
- 9 \nwarrow IRELAND NORTH
- 10 \nwarrow IRELAND SOUTH

WARNINGS

None issued.

At 3.15 p.m. yesterday to Districts 1, 2, 5 and part of 0, and at 7.0 p.m. to Dist. 3 "Hoist South Cone". The signals are flying also in Dists. 6 to 10 and the remainder of 0.

Note.—The South Cone, point downwards (\nwarrow), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (\nearrow), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 8 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.			
	Bar.	Temp.	Wind.	Weather.	Barometer.	Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.	Sun-	Rainfall
	Ins.	°			Ins. Change.	Dry.	Wet.	Change.					Max. Min.	shine. Hrs.	Ins.
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	6	*	6	49 44	5.3	0.01
Newton Reigny (Penrith)															
Bath	30.08	48	W 4	0	29.75 -48	47	42	-2	W 6	2	*	-	52 46	1.2	0.09

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	49	46	c, b, c	2.8	0.01	Worthing	*	*	*	0.1	*
Birmingham, 9 p.m. ...	50	45	0	1.9	-	Llandudno	*	*	*	3.6	*
Lowestoft, up to 6 p.m. NOT REC.						Rhyl	*	*	*		*
Hastings	*	*	*	1.8	*	Southport, 9 p.m. ...	51	47	c, o, c, o, o, q, t	2.9	-
Eastbourne	*	*	*		*	Manchester, 9 p.m. ...	51	48	c, q, b	0.8	-
Brighton	*	*	*		*	Darwen, 9 p.m. NOT REC.					
						Plymouth, 9 p.m. ...	50	47	o, q, o, q, p	0.6	0.04

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
27. XII. 02									
Madeira (Funchal)	66	52	b 0	Ins.	Algiers	61	48	b 6	Ins.
Madrid	52	27	c 0	-	Tunis	61	37	o m	-
Corsica (I. Sanguinaires) ...	54	43	m f	-	Vienna	48	41	o r	0.20
Rome	49	38	c c	-	St. Petersburg	34	21	o s	0.32
Florence	48	43	o 0	-		1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	45	39	o f	-	Lugano ... 26. XII. 02	41	-	b	-
Naples	51	41	o 0	-	Davos	32	-	s	-
Palermo	64	? 45	c 0	-	Lucerne	43	-	o	-
Malta	57	49	? 6	-	Lausanne	39	-	o	-

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.
* AN ASTERISK is inserted in all places for which information is not usually received.

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	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland.	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon)	8.36 a.m.		

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

28. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8. 6	11. 55	3. 44
Greenwich	8. 8	12. 2	3. 56
Wick	9. 5	12. 14	3. 22
Valencia	8. 51	12. 43	4. 35

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DAILY WEATHER REPORT

for 8 a.m. on

MONDAY 29TH DECEMBER.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.				WIND.		Sea (0 to 9.)	Weather.	TEMP.		Sun- shine. Hours	Rainfall. Ins.	
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)			Weather.	Max.			Min.
SCANDINAVIA.	Haparanda ...	29.23	-1	N	2	b	29.42	+10.	6	?	-3	NE	4	b	*	-	25	-2	*	-	
	Hernösand ...	28.95	28	NE	4	S	29.05	-25	24	23	+19	NE	6	o	*	-	30	5	*	0.16	
	Stockholm ...	28.77	35	SW	4	b	28.84	-46	25	25	+4	W	6	o	*	-	36	19	*	0.32	
	Wisby ...	28.98	38	SSE	2	o	29.02	-39	36	35	+6	WSW	4	o	*	-	38	25	*	0.24	
	Karlstad ...	28.79	26	SE	4	S	28.95	-31	19	18	-7	NW	2	b	*	-	2	*	*	0.28	
	Færder (X'ania Fjord)	28.86	28	N	1	o	28.93	-09	24	24	-14	NNW	2	o	4	-	38	23	*	-	
	Bodö ...	28.90	23	E	6	+	29.12	-06	20	17	-2	E	6	b	2	-	23	19	*	-	
	Christiansund ...	28.75	35	SW	2	c	28.84	+06	32	30	-7	ESE	2	b	4	-	37	30	*	-	
	Skudesnaes ...	28.83	37	WSW	6	o	28.81	-18	37	35	-6	SW	8	c	6	ohz	43	34	*	*	
	Sumburgh Head ...	28.43	35	SW	5	S	28.44	-26	40	38	+4	SE	4	o	6	S	40	32	*	0.65	
BRITISH ISLANDS.	Stornoway ...	28.53	38	W	8	o	28.31	-45	41	40	+5	NW	8	ohq	9	S, o, r, sq	41	33	0.1	0.64	
	Malin Head ...	29.02	37	WSW	8	ohq	28.65	-49	41	39	+7	NW	8	oq	7	o, ohq	41	34	*	0.25	
	Blacksod Pt. ...	29.24	34	WNW	7	cqhp	28.90	-50	40	39	+2	NW	6	bcq, mhp	5	o, cqhp, l	41	33	*	0.46	
	Valencia ...	29.44	40	WSW	7	o	29.14	-59	38	35	-4	WSW	5	bc, t, sp	6	ohp, o	45	34	0.0	0.21	
	Roche's Point ...	29.48	39	W	3	op	29.14	-60	35	34	-9	W	3	bc	3	op	44	33	*	0.06	
	Parsonstown ...	29.34	35	W	7	sp	28.99	-58	31	30	-5	SW	5	o	*	ot, sp, sp	41	29	0.5	0.14	
	Donaghadee ...	29.17	33	W	4	bcq, sp	28.77	-60	34	33	-1	W	4	cq, q	3	-	35	30	*	0.12	
	Liverpool Obsy. ...	29.32	40	W	7	c	28.97	-53	34	31	-7	WSW	3	b	3	nhp, c	43	33	*	0.03	
	Holyhead ...	29.33	42	WSW	8	bcq, p	28.98	-55	38	35	-4	SW	7	cq	5	c, bcq, p	43	35	*	0.04	
	Pembroke (St. Ann's) ...	29.47	44	WSW	7	chq	29.12	-56	41	38	-6	W	6	cq	5	chq, q, p	51	39	0.0	0.16	
GERMANY, &c.	Scilly (St. Mary's) ...	29.65	48	W	8	oq	29.20	-68	44	42	-6	W	5	chq	6	o, oq	51	41	1.6	0.45	
	Jersey (St. Aubins) ...	29.59	45	WNW	7	cq	29.20	-62	39	37	-9	W	3	cq	5	cq	49	37	*	0.18	
	Portland Bill ...	29.65	43	W	5	cq	29.20	-58	40	40	-8	W	3	+	2	c, cq	49	36	*	0.25	
	Dungeness ...	29.65	43	W	5	cq	29.20	-58	40	40	-8	W	3	+	2	c, cq	49	36	*	0.25	
	Wick ...	28.46	35	WNW	6	o	28.25	-56	39	38	+6	S	3	ou	3	-	39	30	*	0.35	
	Nairn ...	28.65	34	W	3	o	28.27	-61	37	36	+4	W	4	o	3	-	37	33	*	0.21	
	Aberdeen ...	28.78	34	SW	5	bcq, r, s	28.41	-37	35	34	+1	SSW	5	cq	4	bcq, r, s	36	33	1.5	0.01	
	Leith ...	28.97	35	SW	5	o	28.56	-55	36	34	+1	SW	6	bc	*	q, sp, t, sp	36	25	*	0.17	
	North Shields ...	29.14	37	SW	4	b	28.77	-53	37	34	+2	SW	2	c	2	b, sp	41	34	*	0.02	
	Spurn Head ...	29.38	40	SW	7	bc	28.97	-48	35	34	-6	SW	5	bcq	4	-	45	33	*	-	
FRANCE.	Yarmouth ...	29.49	42	W	5	o	29.10	-49	36	35	-9	WSW	3	og	4	c, o	46	35	*	0.01	
	Loughborough ...	29.43	30	SW	5	b	29.07	-54	34	33	-8	SW	3	bcu	*	q, p, c, b	47	34	*	0.07	
	Oxford ...	29.45	40	W	4	c	29.12	-59	36	35	-9	SSW	3	cq, p	*	-	46	34	*	0.31	
	London (Brixton) ...	29.59	42	W	1	o	29.15	-58	35	34	-11	SW	2	bc	*	bc, o, ot	48	33	0.7	0.16	
	The Scaw (Skagen) ...	28.95	35	WSW	4	+	28.97	-15	35	35	-6	SW	4	bc	1	-	43	34	*	0.16	
	Fanö ...	29.21	37	W	4	b	29.06	-29	37	36	-5	SW	3	o	*	-	42	36	*	0.12	
	Cuxhaven ...	29.41	41	W	7	b	29.14	-46	38	37	-6	SW	3	+	*	-	43	37	*	0.20	
	The Helder ...	29.83	43	NNE	5	b	29.08	-46	39	37	-6	SW	4	bc	4	-	45	37	*	0.43	
	Brussels ...	*	*	*	*	*	29.30	-56	40	39	-4	WSW	3	+	*	-	47	39	*	0.20	
	Berlin ...	29.56	42	W	3	o	29.41	-33	40	39	-3	WSW	3	o	*	-	46	39	*	-	
SPAN. PEN.	Frankfurt ...	29.75	43	SW	6	o	29.43	-56	44	43	0	SW	6	o	*	-	45	43	*	0.16	
	Munich ...	29.93	36	SW	4	b	29.70	-42	34	32	-2	SW	2	bc	*	-	41	30	*	-	
	C. Gris Nez ...	29.64	44	WSW	8	+	29.25	-54	41	41	-6	SW	4	+	5	-	50	39	*	0.79	
	Brest ...	29.83	50	W	5	o	29.36	-70	45	44	-6	NW	3	o	4	-	51	43	*	-	
	Lorient ...	29.85	50	W	5	o	29.38	-71	49	49	-2	WNW	7	o	5	-	54	39	*	0.08	
	Rochefort ...	30.00	51	WSW	4	+	29.59	-61	51	51	+4	SW	7	o	*	-	52	46	*	0.24	
	Biarritz ...	30.19	52	W	2	c	29.88	-47	50	47	+2	SSW	3	o	3	-	52	48	*	-	
	Paris ...	29.85	45	SW	5	b	29.42	-66	47	44	+3	SW	6	o	*	-	48	44	*	0.04	
	Belfort ...	29.97	40	WSW	6	o	29.61	-54	44	39	+5	SW	6	o	*	-	44	?	*	-	
	Lyons ...	30.13	38	SSW	1	c	29.85	-45	34	32	-6	S	3	b	*	-	46	33	*	-	

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Monday, 29th December, 1902.*

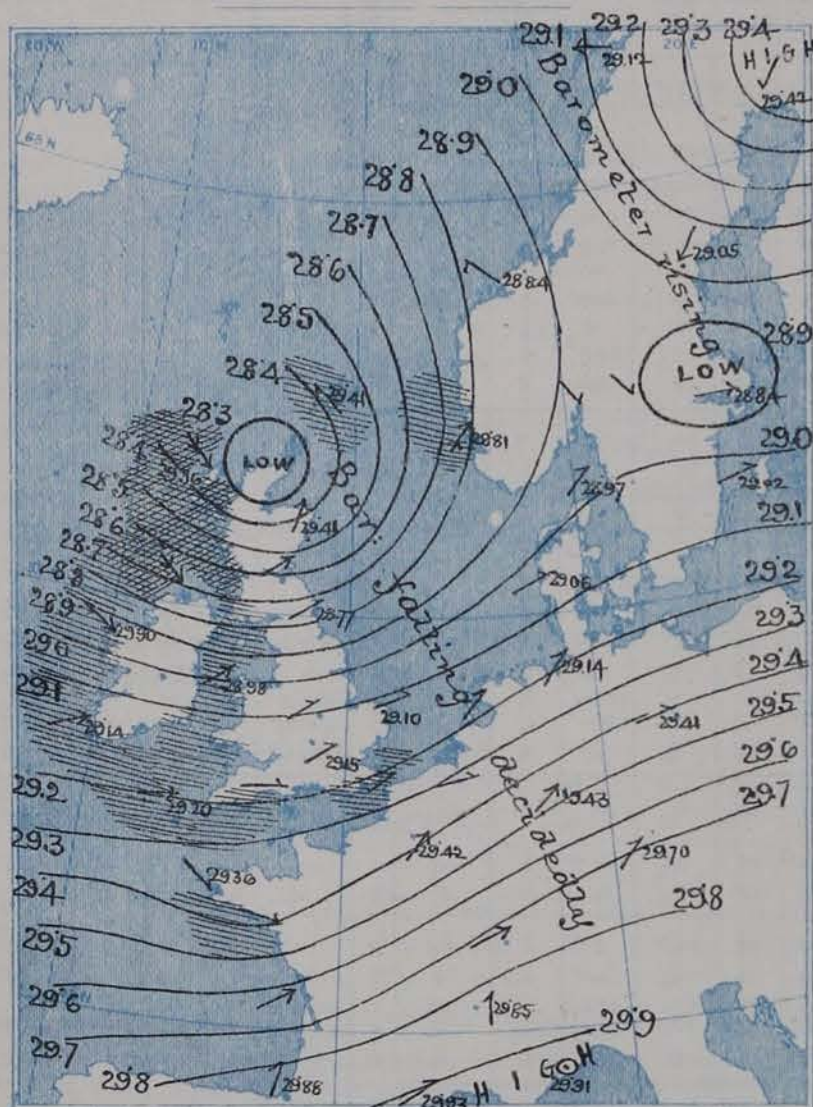
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → → → : Force 5 to 7 → → → : } Calm ☉
Force 8 to 10 → → → : Force 1 to 4 → → → :

SEA.—Rough High

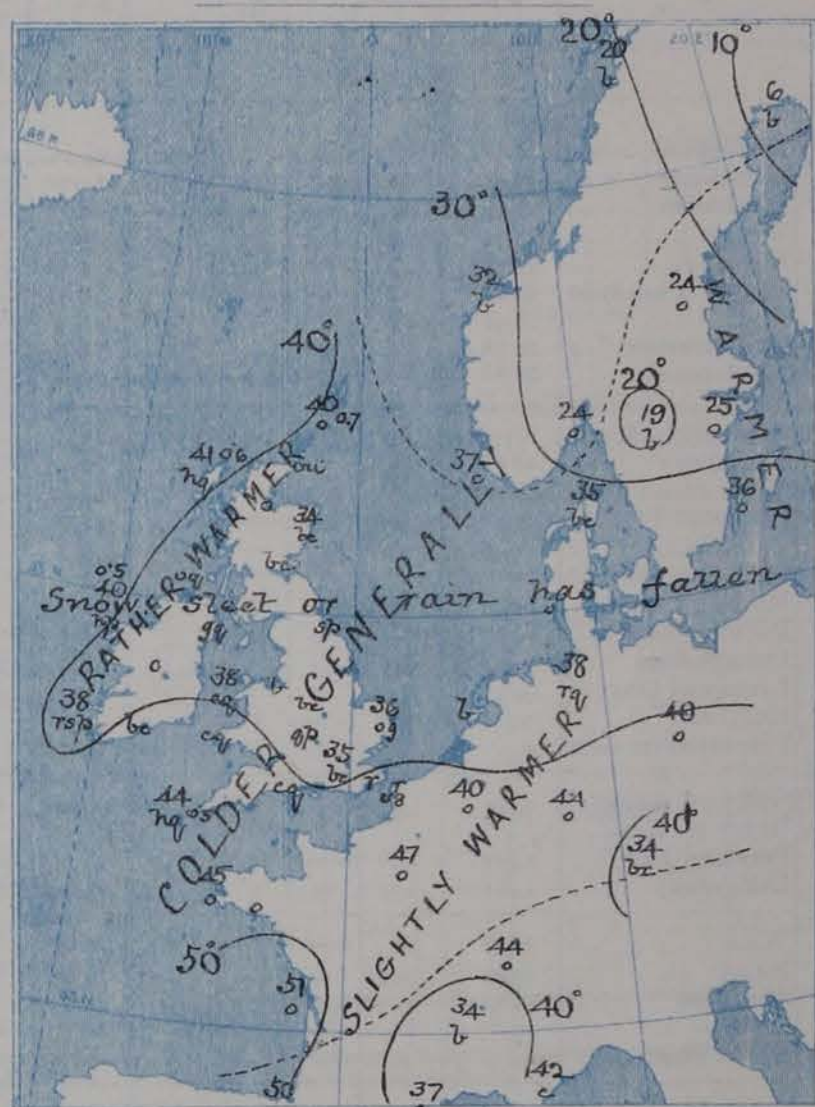


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

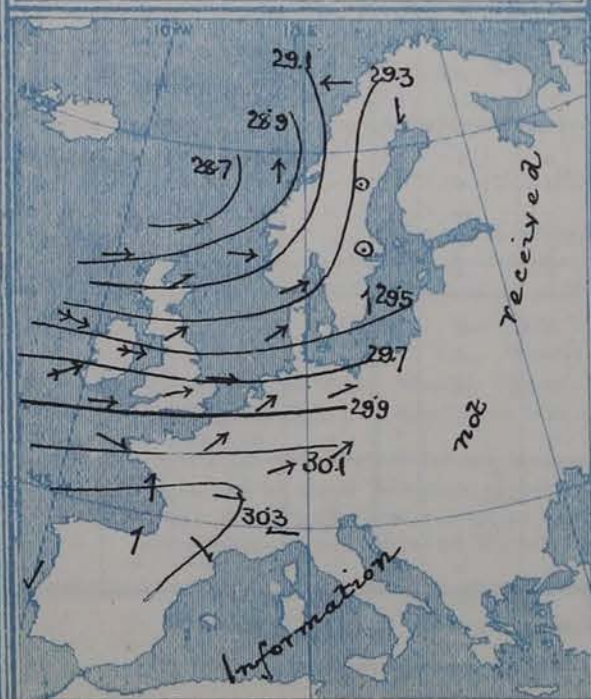
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus — 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900)



GENERAL SITUATION AT 8 A.M.

PRESSURE

A cyclonic disturbance of considerable intensity still lies over the whole of Western Europe, the centre of the system being now over the extreme north of Scotland, where the barometer has fallen below 29.5 in. A well-marked secondary depression is reported near Stockholm, but the mercury is now rising at the Scandinavian stations and also in the Shetlands. In all other parts of our area the barometer is still falling, and over the northern parts of our Islands and the North Sea the gradient is steep. The highest pressures, 29.9 in. and upwards, are found in the extreme south of France.

WIND

TEMPERATURE

WEATHER

AND

SEA

S.W.^{ly} or W.^{ly} winds are reported over Western Europe generally, and blow strongly in many places, with a gale at Skudesnaes; on our own extreme north-west coast, however, there is a gale from the N.W.^{ly}. Over the northern parts of Scandinavia the wind is moderate to strong from the E.^{ly} or N.E.^{ly}. Temperature has risen in the extreme north and north-west of our Islands, and also in Sweden, but has fallen elsewhere. Over the greater part of the United Kingdom the thermometer is now below its average height; the readings being below 35° at several of the more central stations, and as low as 31° at Passanstown. Frost prevails over nearly the whole of Scandinavia, the lowest reading at present reported being 6° at Haparanda and 19° at Karlstad. The weather, though temporarily fine at several of the English stations, is in a squally, showery state generally, with hail or sleet on many parts of our western coasts. The sea is exceedingly high at Stornoway, and is rough, or rather so, on all but our east coasts. During yesterday the thermometer at many of our northern stations failed to reach 40°; at Donaghadee it did not exceed 35°. Frost occurred last night in Ireland and Scotland, and, on the ground, over central England. Snow and sleet fell yesterday over the northern parts of the United Kingdom generally, and lightning was seen at Blackhead Point as well as at Skudesnaes.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The main depression over Western Europe is likely to fill up gradually, but secondary systems will probably advance over our Islands from the westward. The weather is therefore likely to remain in a changeable, showery state, with strong winds from the W.^{ly} on many parts of our coasts.

FORECASTS *

For the 24 hours ending at NOON on 30th December, 1902

DISTRICTS.

FORECASTS.

- 0 { SCOTLAND NORTH
- 1 { SCOTLAND EAST
- 2 { ENGLAND N.E.
- 3 { ENGLAND EAST
- 4 { MIDLAND COUNTIES
- 5 { ENGLAND SOUTH

Wind varying greatly both in direction and force; squally, with hail or snow showers.

S.W.^{ly} winds, strong in places; changeable, some snow or sleet showers.

S.W.^{ly} and W.^{ly} winds, moderate to strong; changeable, some hail or sleet showers.

DISTRICTS.

FORECASTS.

- 6 { SCOTLAND WEST
- 7 { ENGLAND N.W.
- 8 { ENGLAND S.W.
- 9 { IRELAND NORTH
- 10 { IRELAND SOUTH

Varying W.^{ly} (S.W.^{ly} to N.W.^{ly}) winds, very strong in places; squally, with hail or sleet showers.

WARNINGS

The South Cone is still flying in districts 1 to 3, 5 and part of 0.

Note.—The South Cone, point downwards (⌞), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (⌞), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page.

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.								PAST 24 HOURS.				
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature		Sun- shine. Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	c	*	bc, b	47	36	3.6	0.12
Newton Reigny (Penrith)	29.17	36	W 9	o	28.81		36	35		SW 7	ohspq	*	ogths	37	32	0.2	0.02
Bath	29.59	42	SW 5	o	29.14	-61	37	35	-10	SW 3	o	*	-	47	34	0.0	0.48

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	40	31	c, c, + s, c	1.9	0.27	Worthing	*	*	*	0.9	*
Birmingham, 9 p.m. ...						Llandudno	*	*	*	1.3	*
Lowestoft, up to 6 p.m. ...						Rhyl	*	*	*	1.2	*
Hastings	*	*	*	1.4	*	Southport, 9 p.m. ...	50	38	+ q, h, o, q	0.1	0.13
Eastbourne	*	*	*	1.1	*	Manchester, 9 p.m. ...	51	35	+ b, + s, h	1.4	0.19
Brighton	*	*	*	0.0	*	Darwen, 9 p.m. ...					

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
28. XI. 02									
Madeira (Funchal)				Ins.	Algiers				Ins.
Madrid					Tunis				
Corsica (I. Sanguinaires) ...					Vienna				
Rome					St. Petersburg... ..				
Florence						1 p.m.		1 p.m.	Measured 7 a.m.
Trieste					Lugano 27. XII. 02	45	—	6	—
Naples					Davos	32	—	6	0.32
Palermo					Lucerne	48	—	6	0.12
Malta... ..					Lausanne	45	—	6	—

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.					TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET, FOR STATIONS IN THE UNITED KINGDOM, TO-DAY.			
	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.	29...XIII... 1909.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.	Yarmouth	h. m. 8. 6	h. m. 11. 55	h. m. 3. 45
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.	Greenwich	8. 8	12. 2	3. 57
France	7 a.m. (Paris)	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.	Wick	9. 5	12. 14	3. 23
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.	Valencia	8. 51	12. 43	4. 36
Portugal	8 a.m. (Lisbon)	8.36 a.m.						

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

"	Weekly	"	"	£1 10 0	"	Single Copies, 6d.
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Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom **Sixpence in addition to the cost of the inquiry and reply Telegrams.** Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

TUESDAY 30TH DECEMBER.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.	YESTERDAY EVENING. (See note on last page.)						THIS MORNING. (See note on last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.		Weather.		Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)		Temp.		Sun- shine. Hours	Rainfall. Ins.
	At 82° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)			At 32° Fahr. and M.S.L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)				Max.	Min.		
	Ins.						Ins.	Ins.	°	°										
SCANDINAVIA.	Haparanda ...	29.26	10	NE	2	S	29.34	-08	5	4	-1	NNE	2	0	*	-	10	-4	*	0.04
	Hernösand ...	29.23	16	Z	0	0	29.28	+23	12	10	-12	Z	0	0	*	-	30	12	*	-
	Stockholm ...	29.05	27	N	2	0	29.14	+20	24	21	-1	NNW	2	0	*	-	36	24	*	0.04
	Wisby ...	29.00	33	SW	2	0	29.09	+07	34	32	-2	SW	2	0	*	-	39	28	*	0.04
	Karlstad ...	29.08	24	SE	2	0	29.20	+25	22	21	+3	NE	2	0	*	-	*	*	*	-
	Færder (X'ania Fjord) ...	29.01	27	NE	4	0	29.12	+19	25	24	+1	NE	4	0	2	-	27	24	*	-
	Bodö ...	29.26	18	E	6	0	29.32	+20	18	15	-2	E	4	0	1	-	20	16	*	-
	Christiansund ...	28.87	33	ESE	3	0	29.00	+16	31	29	-1	ESE	3	0	5	-	34	30	*	-
BRITISH ISLANDS.	Skudesnaes ...	28.88	36	SE	6	0	28.99	+18	34	31	-3	ESE	6	0	5	0	37	32	*	*
	Sumburgh Head ...	28.65	39	E	5	0	28.90	+46	36	36	-4	ENE	4	0	6	c, b	40	35	*	0.15
	Stornoway ...	28.67	40	NE	7	0	28.89	+58	38	36	-3	NNE	3	0	5	o, h, b	43	36	0.0	0.26
	Malin Head ...	28.66	41	NW	9	0	28.87	+22	42	42	+1	NNW	7	0	6	o, o, h, q	43	38	*	0.55
	Blacksod Pt. ...	29.07	38	NNW	7	0	29.10	+20	40	39	0	NNW	6	0	5	h, p, o, q, m	45	33	*	0.23
	Valencia ...	29.17	42	N	5	0	29.25	+11	37	34	-1	NW	6	0	6	c, ctsp	46	35	0.9	0.28
	Roche's Point ...	29.05	42	NNW	4	0	29.15	+01	37	36	+2	WNW	4	0	3	b, b, c, q, p	43	34	*	0.02
	Parsonstown ...	29.01	37	W	4	0	29.06	+07	35	34	+4	W	6	0	5	sp, b	42	30	2.5	0.09
GERMANY, &c.	Donaghadee ...	28.70	38	W	5	0	28.76	-01	43	40	+9	NW	5	0	5	-	43	32	*	0.15
	Liverpool Obsy. ...	28.77	40	WSW	6	0	28.80	-17	36	35	+2	WNW	6	0	5	q, r, h, p, o	43	34	*	0.21
	Holyhead ...	28.80	42	W	8	0	28.84	-14	40	39	+2	WNW	8	0	7	o, o, q, u	42	35	*	0.14
	Pembroke (St. Ann's) ...	28.97	42	WNW	6	0	29.04	-08	42	39	+1	NW	7	0	6	c, h, q	45	38	2.9	0.14
	Scilly (St. Mary's) ...	29.07	44	WSW	7	0	29.18	-02	42	39	-2	NW	7	0	6	c, o	45	38	3.4	0.09
	Jersey (St. Aubins) ...	29.04	42	W	5	0	29.05	-15	42	38	+3	WNW	6	0	5	b, c	45	37	*	0.01
	Portland Bill ...	29.09	41	WSW	4	0	29.04	-16	39	38	-1	W	5	0	3	b, c, q	45	38	*	0.09
	Dungeness ...	29.09	41	WSW	4	0	29.04	-16	39	38	-1	W	5	0	3	b, c, q	45	38	*	0.09
FRANCE.	Wick ...	28.49	40	E	4	0	28.75	+50	40	39	+1	E	6	0	4	o, h, s, p, u	42	35	*	0.45
	Nairn ...	28.48	38	NNE	3	0	28.77	+50	38	37	+1	N	3	0	3	-	40	36	*	0.42
	Aberdeen ...	28.41	37	S	1	0	28.70	+29	36	35	+1	NW	4	0	3	0	41	35	0.3	0.23
	Leith ...	28.40	41	SW	4	0	28.71	+15	40	38	+4	NW	3	0	*	-	41	33	*	0.05
	North Shields ...	28.55	40	SW	3	0	28.61	-16	38	37	+1	SW	2	0	2	c, o, t	42	37	*	0.06
	Spurn Head ...	28.76	35	SSW	6	0	28.71	-26	38	37	+3	SW	6	0	4	-	39	33	*	-
	Yarmouth ...	28.95	37	WSW	4	0	28.87	-23	36	34	0	SW	4	0	4	b, c	44	32	*	-
	Loughborough ...	28.86	37	SW	5	0	28.83	-24	37	35	+3	WSW	6	0	4	c, q, b, q, o	39	34	*	-
SPAIN, &c.	Oxford ...	28.95	37	SW	3	0	28.95	-17	36	34	0	SW	3	0	*	o, q, t, s	40	35	*	-
	London (Brixton) ...	29.02	37	WSW	3	0	28.99	-16	35	33	0	WSW	3	0	*	b	42	34	3.7	-
	The Scaw (Skagen) ...	28.95	31	W	1	m	29.05	+08	33	33	-2	ESE	4	0	1	-	36	28	*	0.04
	Fanö ...	29.00	33	SW	3	S	29.02	-04	35	33	-2	SSW	1	0	*	-	37	32	*	0.12
	Cuxhaven ...	29.07	37	SSW	2	0	29.05	-09	35	34	-3	S	2	0	*	-	39	34	*	0.16
	The Helder ...	28.98	37	SW	3	0	28.88	-20	37	37	-2	SSW	7	0	6	-	39	34	*	0.08
	Brussels ...	*	*	*	*	*	29.11	-19	35	34	-5	SW	6	0	*	-	44	34	*	0.24
	Berlin ...	29.17	43	SW	4	0	29.15	-26	42	41	+2	SW	3	0	*	-	46	37	*	0.12
FRANCE.	Frankfurt ...	29.25	43	SW	4	0	29.21	-22	41	37	-3	SW	5	0	*	-	46	39	*	0.16
	Munich ...	29.43	35	Z	0	0	29.35	-35	32	31	-2	SE	2	0	*	-	43	32	*	-
	C. Gris Nez ...	29.10	43	WSW	5	0	29.08	-17	41	39	0	WSW	5	0	5	-	45	37	*	0.51
	Brest ...	29.22	42	NW	4	0	29.26	-10	46	41	+1	NNW	5	0	5	-	50	41	*	0.04
	Lorient ...	29.26	44	NW	6	0	29.26	-12	45	45	-4	NW	5	0	4	-	50	41	*	0.20
	Rochefort ...	29.40	46	SW	5	0	29.35	-24	46	43	-5	SSW	3	0	0	-	54	41	*	0.47
	Biarritz ...	29.52	54	SSW	5	0	29.47	-41	46	?	-4	SSW	6	0	5	-	54	43	*	0.83
	Paris ...	29.22	45	SW	5	0	29.23	-19	35	34	-12	SW	4	0	*	-	48	34	*	0.16
SPAN. PEN.	Belfort ...	29.39	43	SW	8	0	29.33	-28	36	35	-8	SW	5	0	*	-	48	34	*	0.24
	Lyons ...	29.56	43	S	4	0	29.43	-42	37	35	+3	ENE	1	0	*	-	45	34	*	0.24
	Nice ...	29.76	43	E	1	0	29.47	-44	41	41	-1	ENE	1	0	3	-	54	39	*	0.32
	Perpignan ...	29.63	42	Z	0	0	29.45	-48	42	40	+5	W	2	0	*	-	53	37	*	-
SPAN. PEN.	Corunna ...																		*	-
	Lisbon ...																		*	-
SPAN. PEN.	Azores (R. Delgada) ...	30.36	56	N	3	0	30.38	+02	52	48	-5	N	3	0	2	-	63	52	*	-
	" (Horta) ...	30.40	56	NNE	3	0	30.39	+00	55	52	-1	N	2	0	2	-	63	54	*	-

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR *Tuesday, 30th December, 1902.*

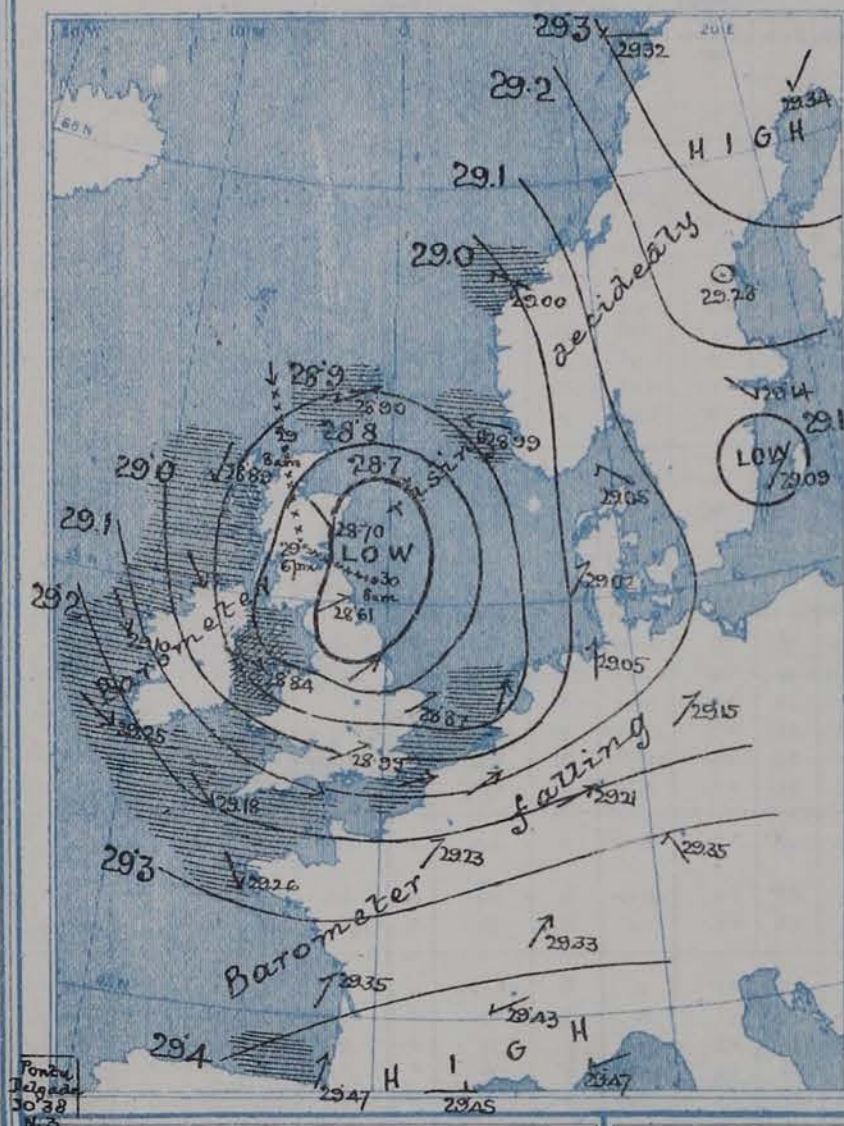
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → Force 5 to 7 → } Calm ○
Force 8 to 10 → Force 1 to 4 →

SEA.—Rough High

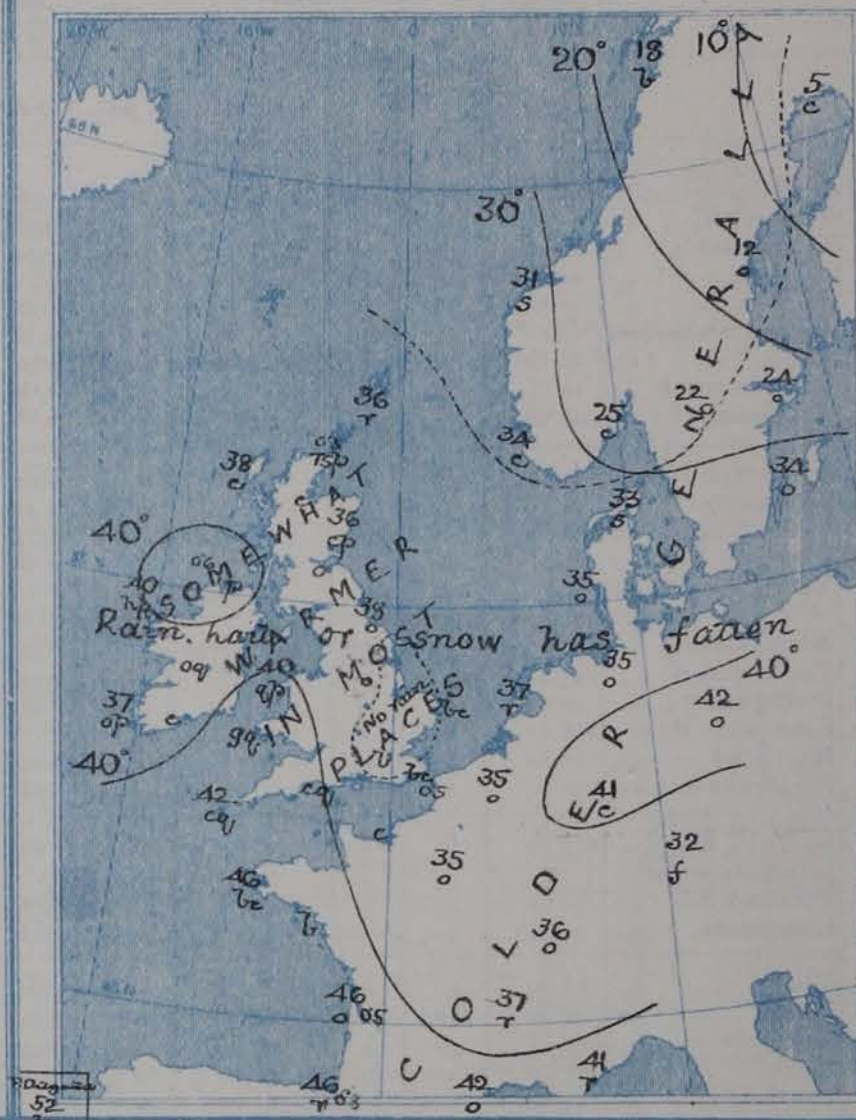


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

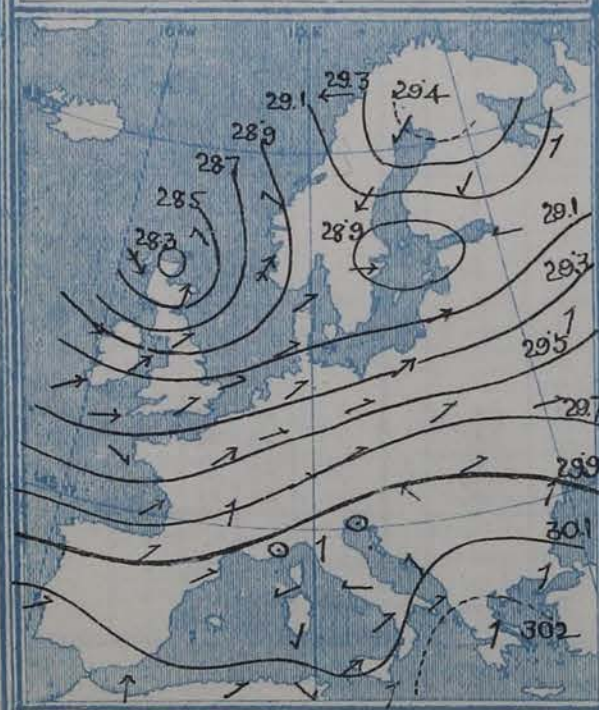
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus - 0.6



III. BAROMETER AND WIND

Yesterday morning.



IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The cyclonic disturbance noticed yesterday off the north of Scotland has travelled slowly south-eastwards, its centre being now off the north-east of England. The system has in the meantime partially filled up, the minimum pressure being apparently little below 29.6 ins., or nearly four tenths of an inch higher than those reported yesterday morning. The barometer is still falling in France, Germany and the Netherlands, but is rising in nearly all other parts of our area; in the extreme north of Scotland the mercury appears to be rather unsteady. The highest readings, 29.4 ins. and upwards, are still found in the south of France.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind shows a complete circulation round the basic minimum, being strong to a gale from the N.W. on our western coasts, moderate to strong from the S.W. over the greater part of England, France, Germany and the Netherlands, light from the S. in Denmark, and moderate to strong from the E. or N.E. in Norway and the north of Scotland. Temperature has risen slightly in most parts of the United Kingdom, but is still rather low over the inland parts of England and Ireland, the lowest readings reported being 34° at Newton Kigny (Penarth) and 35° in London and at Passenstown. At the Continental stations the thermometer has fallen, but frost is reported only in Scandinavia, the readings being as low as 5° at Haparanda and 12° at Herneborg. The weather is fine in the south and east of England, but is cloudy and unsettled in all other parts of our area; showers of hail and sleet are falling at several of our own western and northern stations, snow at Christiansund and the Peaw, and rain over the south of France. The sea is high at Holyhead, and rough or rather so on all but our east coasts. Rain, hail or snow fell yesterday in all parts of Western Europe excepting eastern and central England, the amount being large in places. The duration of bright sunshine was generally small, but in London (Westminster) it amounted to 3.7 hours, and at Bath to 4.0 hours. Frost occurred last night in many parts of the United Kingdom; lightning was seen in the evening at Clacton-on-Sea.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The cyclonic system will probably continue to move slowly south-eastwards and to disperse gradually. There are at present no signs of any fresh disturbance, but the weather is likely to continue in a rather unsettled state generally, with showers in many places.

FORECASTS *

For the 24 hours ending at NOON on 31st December, 1902

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 ∇ SCOTLAND NORTH	E ^{ly} and N.E ^{ly} winds, strong in places; squally, some cold showers.	6 SCOTLAND WEST	Same as No. 1.
1 ∇ SCOTLAND EAST	N.W ^{ly} to N.E ^{ly} winds, freshening; changeable, some cold showers.	7 ∇ ENGLAND N.W.	N.W ^{ly} winds, strong; squally, some cold showers.
2 ∇ ENGLAND N.E.	S.W ^{ly} to W ^{ly} winds, strong in places; changeable, some showers.	8 ∇ ENGLAND S.W.	
3 ENGLAND EAST		9 ∇ IRELAND NORTH	
4 MIDLAND COUNTIES	W ^{ly} winds, fresh; fair generally, but	10 ∇ IRELAND SOUTH	At 7.15 p.m. yesterday, 7, 8 to 10 and part of 9, and at 7.35 p.m. to districts 0 to 2, Hoist North Cone.
5 ENGLAND SOUTH	showers of hail or sleet locally.	WARNINGS	

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.					
	Bar. Ins.	Temp. °	Wind.	Weather.	Barometer.		Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun- shine Hrs.	Rainfall Ins.
					Ins.	Change.	Dry.	Wet.	Change.					Max. °	Min. °		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	6	*	b, 2	42	35	3.3	-
Newton Reigny (Penrith)	28.57	36	WSW 7	r	28.70	-11	34	34	-2	WNW 4	0	*	oqths	39	32	0.0	0.73
Bath	28.99	33	W 5	0	29.02	-12	38	35	+1	W 4	0	*	-	52	29	4.0	0.06

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	40	31	f, s, c	1.5	0.35	Worthing	*	*	*	2.1	*
Birmingham, 9 p.m. ...	38	32	c	4.9	0.13	Llandudno	*	*	*	0.1	*
Lowestoft, up to 6 p.m. ...	40	34	c, o, p, o, c, b	0.5	0.01	Rhyl	*	*	*	2.3	*
Hastings	*	*	*	2.2	*	Southport, 9 p.m. ...	43	37	chp, op, oq	0.1	0.16
Eastbourne	*	*	*	1.0	*	Manchester, 9 p.m. ...	40	30	b, s, r, b, t, s	1.8	0.05
Brighton	*	*	*	0.3	*	Darwen, 9 p.m. ...	37	29	ots, oqu	0.0	0.39
						Plymouth 9 p.m. ...	47	37	p, b	3.7	0.28

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS. 29. XII. 02	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max. °	Min. °				Max. °	Min. °		
Madeira (Funchal) <i>not rec'd</i>				Ins.	Algiers	66	52	b c	Ins.
Madrid ... <i>not rec'd</i>					Tunis	59	41	o o	-
Corsica (I. Sanguinaires) ...	55	45	f o	-	Vienna	48	34	o o	-
Rome	53	37	o o	-	St. Petersburg	19	14	o c	Measured 7 a.m.
Florence	46	44	o r	-		1 p.m.	1 p.m.		
Trieste	50	43	o o	-	Lugano				
Naples	55	51	o c	-	Davos				
Palermo	64	50	o o	-	Lucerne				
Malta	60	53	? o	-	Lausanne				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

	Hours of Morning Observations by Local Standard Time.	Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.	Corresponding Greenwich Times.
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.	6 p.m. (W.E.T.)†	6 p.m.
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.	8 p.m. (M.E.T.)	7 p.m.
France	7 a.m. (Paris) ...	6.51 a.m.	6 p.m. (Paris)	5.51 p.m.
Spain	9 a.m. (San Fernando)	9.25 a.m.	6 p.m. (San Fernando)	6.25 p.m.
Portugal	8 a.m. (Lisbon) ...	8.36 a.m.		

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

30. XII. 1902.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
	h. m.	h. m.	h. m.
Yarmouth	8. 6	11. 56	3. 46
Greenwich	8. 8	12. 3	3. 58
Wick	9. 5	12. 15	3. 24
Valencia	8. 51	12. 44	4. 37

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

DAILY WEATHER REPORT

for 8 a.m. on

WEDNESDAY 31ST DECEMBER.

1902

Issued by the Meteorological Office, 63, Victoria Street, London. W. N. SHAW, Secretary.

STATIONS.		YESTERDAY EVENING. (See note on last page.)					THIS MORNING. (See note on last page.)										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Force (0 to 12.)	TEMP.			Sun- shine. Hours	Rainfall. Ins.
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)			At 32° Fabr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Max.				Min.				
																			Ins.	Ins.		
SCANDINAVIA.	Haparanda ...	29.46	10	NE	2	S	29.65	+31	7	6	+2	NNE	2	c	*	-	?	1	*	-	-	
	Hernösand ...	29.41	14	Z	0	S	29.60	+32	18	17	+6	Z	0	o	*	-	21	10	*	0.08		
	Stockholm ...	29.31	21	NW	2	S	29.60	+46	10	9	-14	NNW	2	b	*	-	27	10	*	-		
	Wisby ...	29.30	31	Z	0	o	29.55	+46	28	26	-6	SE	2	o	*	-	36	27	*	-		
	Karlstad ...	29.38	20	NE	2	o	29.54	+34	18	17	-4	NE	2	o	*	-	*	*	*	-		
	Färder (X'ania Fjord)	29.30	25	ENE	2	o	29.45	+33	27	26	+2	E	2	o	2	-	27	25	*	-		
	Bodö ...	29.47	18	E	4	b	29.57	+25	19	16	+1	E	4	b	2	-	19	16	*	-		
	Christiansund ...	29.15	36	ESE	3	o	29.36	+36	28	26	-3	SW	1	o	4	-	?	27	*	0.04		
BRITISH ISLANDS.	Skudesnaes ...	29.17	32	E	6	b	29.30	+31	31	30	-3	NE	6	s	3	bc, b	34	30	*	*		
	Sumburgh Head ...	29.08	38	ENE	1	c	29.27	+37	36	34	0	NNE	2	o	5	c	40	34	*	0.31		
	Stornoway ...	29.10	40	ENE	6	thq	29.27	+38	35	35	-3	N	4	c	5	s, thq	40	34	0.0	0.14		
	Malin Head ...	28.99	43	NNW	7	cp	29.32	+45	40	39	-2	N	2	cp	3	c, cp	43	39	*	0.11		
	Blacksod Pt. ...	29.21	43	NNW	5	cmhp	29.44	+34	41	39	+1	N	5	bcp	4	c, cmhp	43	39	*	0.13		
	Valencia ...	29.29	42	NNW	5	bcq, tsp	29.51	+26	42	39	+5	NW	4	bcq	5	q, bcq, tsp	44	35	1.1	0.18		
	Roche's Point ...	29.17	41	NNW	4	b	29.40	+25	38	37	+1	NNW	3	b	3	ts, bc, b	42	36	*	0.01		
	Parsonstown ...	29.15	36	N	3	b	29.41	+35	34	33	-1	N	2	bc	*	ots, b	37	32	0.0	0.28		
GERMANY, &c.	Donaghadee ...	28.95	40	NW	5	c	29.37	+61	43	39	0	NNW	2	c	2	-	44	38	*	0.05		
	Liverpool Obsy. ...	28.93	42	NW	4	bc	29.23	+43	40	37	+4	NW	4	b	4	thp, bc	43	36	*	0.12		
	Holyhead ...	28.97	43	NW	7	bcq	29.27	+43	44	41	+4	N	6	bc	4	c, bcq, b	44	35	*	0.06		
	Pembroke (St. Ann's)	29.07	41	NW	6	c	29.32	+28	43	41	+1	NW	6	cq	5	c, p	44	40	0.3	0.01		
	Scilly (St. Mary's) ...	29.18	45	WNW	6	cq	29.39	+21	42	39	0	NNW	7	cp	5	c, cq	46	38	4.0	0.04		
	Jersey (St. Aubins) ...	29.06	42	W	6	cp	29.26	+21	42	40	0	NW	5	c	4	cq, cp	43	39	*	0.02		
	Portland Bill ...	29.01	42	W	6	bcq	29.20	+16	38	37	-1	W	4	b	3	b, bcq	45	35	*	0.01		
	Dungeness ...	29.01	42	W	6	bcq	29.20	+16	38	37	-1	W	4	b	3	b, bcq	45	35	*	0.01		
FRANCE.	Wick ...	29.11	40	E	5	o	29.27	+52	38	36	-2	NE	3	c	3	-	42	34	*	0.20		
	Nairn ...	29.01	40	NE	2	c	29.27	+50	32	31	-6	W	1	bc	1	-	40	30	*	0.25		
	Aberdeen ...	28.91	40	NNE	7	bcq	29.22	+52	36	34	0	NNW	3	bc	6	c, bcq	42	35	0.4	0.21		
	Leith ...	28.87	41	NW	2	+	29.23	+52	37	35	-3	NNW	3	bm	*	-	41	33	*	-		
	North Shields ...	28.76	38	NW	3	+	29.12	+51	39	38	+1	NW	2	o	3	t, p	41	37	*	0.52		
	Spurn Head ...	28.78	38	SW	5	bc	29.05	+34	39	38	+1	WNW	5	bc	4	ts, bc	41	36	*	0.14		
	Yarmouth ...	28.69	38	SW	4	c	29.07	+20	37	36	+1	WSW	4	om	4	c	43	32	*	0.03		
	Loughborough ...	28.92	35	N	2	b	29.15	+32	37	36	0	W	2	o	*	cq, b, o	37	35	*	0.04		
SPAN. PEN.	Oxford ...	29.03	37	WSW	3	bc	29.20	+25	37	36	+1	W	3	op	*	s, bcp	40	34	*	0.13		
	London (Brixton) ...	28.99	36	WSW	5	ot	29.18	+19	36	35	+1	WNW	1	o	*	bc, t, br	41	32	2.7	0.11		
	The Scaw (Skagen) ...	29.24	32	SE	4	o	29.36	+31	33	33	0	SE	4	o	1	-	34	30	*	-		
	Fanö ...	29.15	35	S	2	c	29.26	+24	34	33	-1	S	2	b	*	-	36	32	*	0.04		
	Cuxhaven ...	29.14	37	S	3	o	29.26	+21	33	33	-2	S	2	b	*	-	37	33	*	-		
	The Helder ...	28.98	35	S	4	b	29.12	+24	37	37	0	SSW	3	o	3	-	41	34	*	0.08		
	Brussels ...	*	*	*	*	*	29.27	+16	35	34	0	SSW	4	o	*	-	39	32	*	0.04		
	Berlin ...	29.31	36	SW	1	o	29.36	+21	33	32	-9	SE	1	b	*	-	43	32	*	-		
SPAN. PEN.	Frankfurt ...	29.28	40	SW	2	o	29.30	+09	36	34	-5	SW	2	o	*	-	41	34	*	-		
	Munich ...	29.33	32	SW	3	s	29.39	+04	31	31	-1	Z	0	s	*	-	39	30	*	-		
	C. Gris Nez ...	29.10	43	WSW	6	b	29.19	+11	42	40	+1	W	6	o	6	-	46	39	*	0.12		
	Brest ...	29.30	43	NNW	5	bc	29.44	+18	44	42	-2	N	5	bc	5	-	46	37	*	0.24		
	Lorient ...	29.41	45	NNW	1	b	29.49	+14	40	39	-6	NNW	2	b	*	o, b	48	37	*	0.28		
	Rocheport ...	29.49	43	SW	6	+	29.58	+11	45	45	-1	SW	6	+	6	-	46	43	*	1.34		
	Biarritz ...	29.49	43	SW	6	+	29.58	+11	45	45	-1	SW	6	+	6	-	46	43	*	1.34		
	Paris ...	29.26	35	SW	3	b	29.37	+14	31	30	-4	S	3	b	*	-	42	29	*	-		
SPAN. PEN.	Belfort ...	29.33	34	SW	2	o	29.44	+11	31	30	-5	WSW	3	o	*	-	44	30	*	-		
	Lyons ...	29.43	35	NNW	1	o	29.56	+13	27	27	-10	ESE	1	f	*	-	37	26	*	0.04		
	Nice ...	29.16	45	Z	0	+	29.32	-15	39	32	-2	NE	3	b	4	-	46	37	*	1.26		
	Perpignan ...	29.42	43	NW	3	b	29.52	+07	41	38	-1	SW	2	o	*	-	46	37	*	0.04		
SPAN. PEN.	Corunna ...														*	-			*	-		
	Lisbon ...														*	-			*	-		
	Azores (P. Delgada)														*	-			*	-		
SPAN. PEN.	" (Horta)	30.37	56	NW	2	bc	30.32	-07	59	56	+4	W	3	c	2	-	61	55	*	-		

NOTE: The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster.

* Observations for this column not generally received.

+ Observations received too late for insertion in Charts on next page.

WEATHER CHARTS

FOR WEDNESDAY, 31ST DECEMBER, 1902.

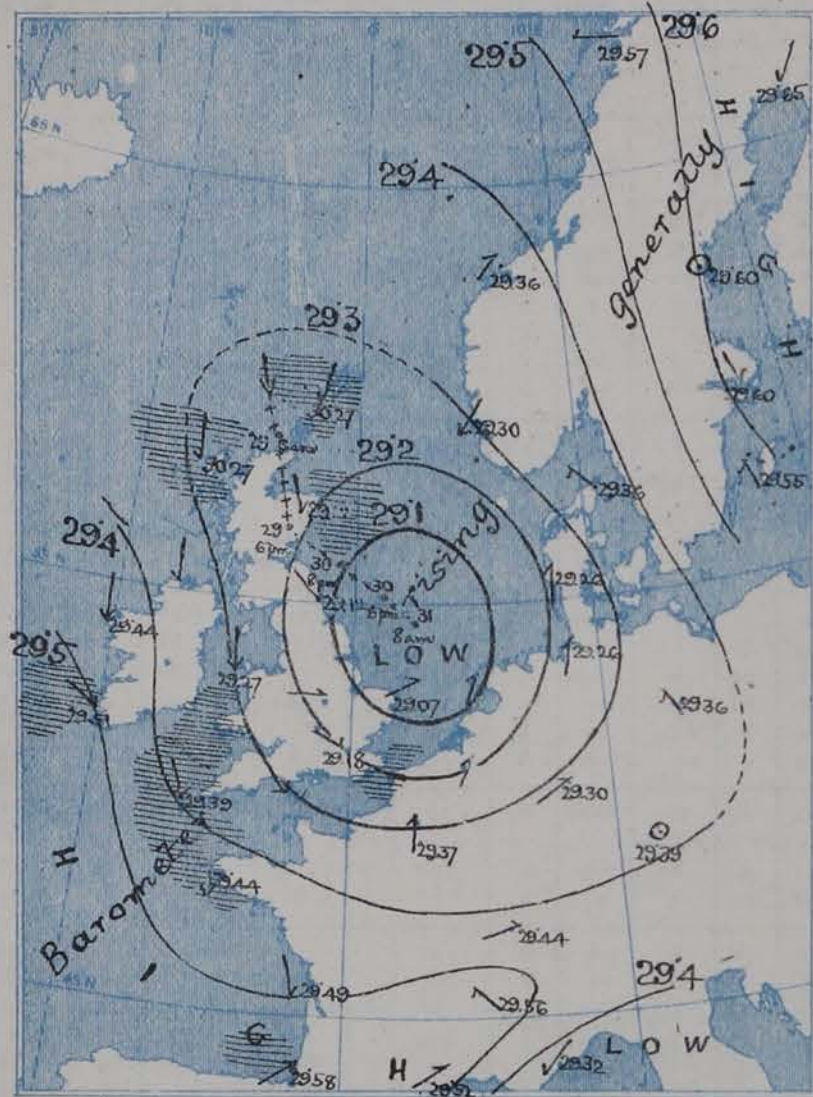
I. BAROMETER, WIND AND SEA. *This Morning.*

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 → : Force 5 to 7 → : } Calm ☉
Force 8 to 10 → : Force 1 to 4 → :

SEA—Rough High

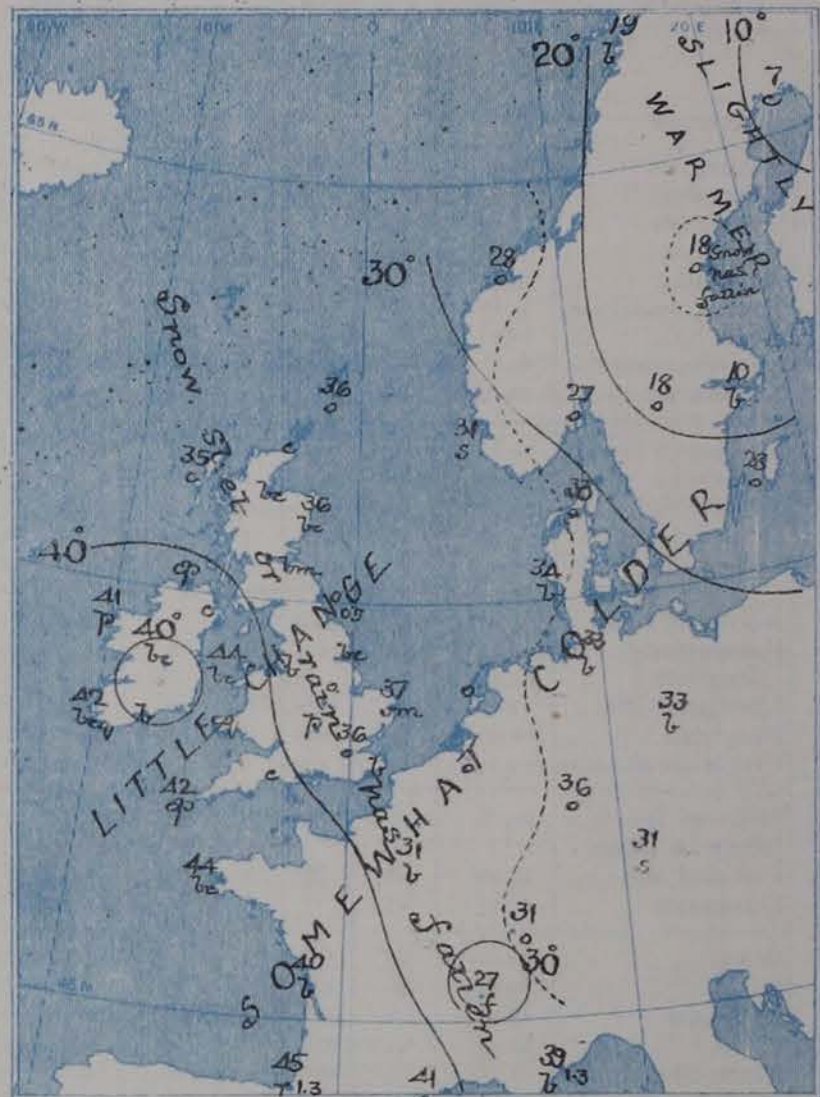


II. TEMPERATURE AND WEATHER. *This Morning.*

TEMPERATURE.—Isotherms are drawn for each 10°.

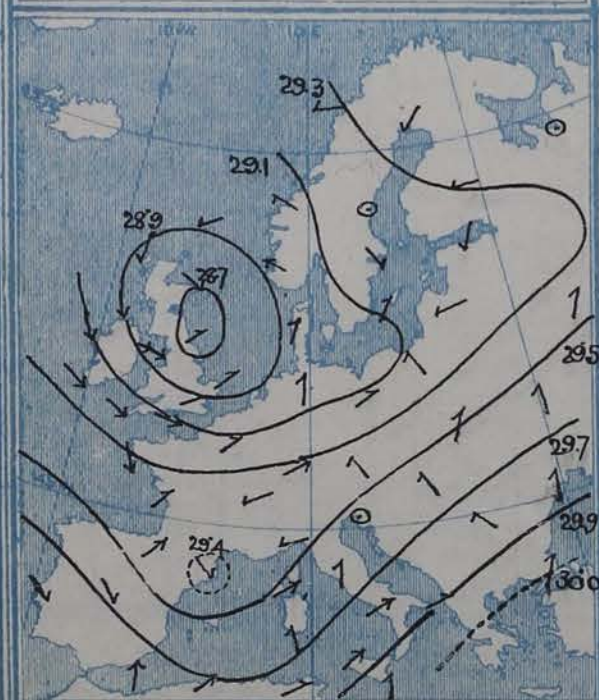
WEATHER.—Shown by Letters of the Beaufort Scale. (See P. 4.)

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus: 0.6



III. BAROMETER AND WIND

Yesterday morning.

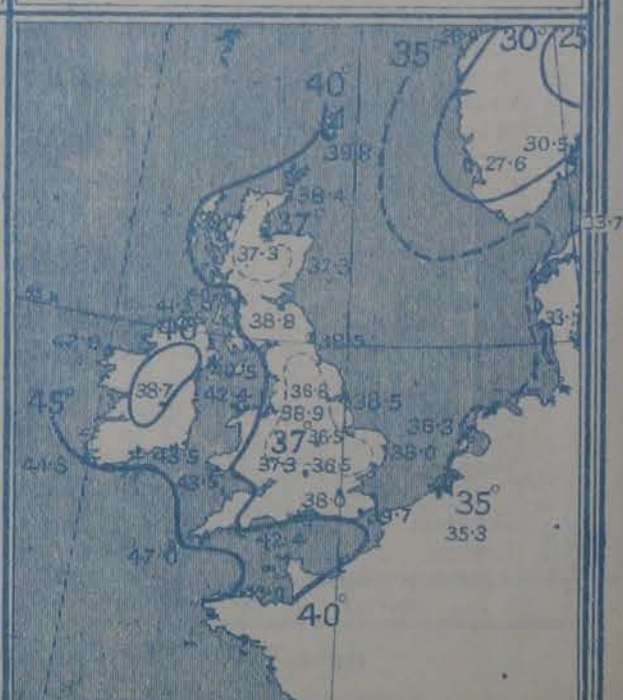


IV. Averages of DAILY MAXIMUM and MINIMUM TEMPERATURES combined for the month of DECEMBER. (1871-1900.)



V. Means of DAILY TEMPERATURE

at 8 A.M. for the Two monthly period DECEMBER-JANUARY (1871-1900.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

The cyclonic disturbance recently noticed over our Islands continues to move slowly eastwards, and to disperse; its centre is now situated over the southern part of the North Sea, and the minimum readings of the barometer are apparently not much below 29.0 in. The mercury is rising over Western Europe generally, but the distribution of pressure is rather irregular while the highest readings, 29.6 in. and upwards, are reported over the north of Sweden, the bar is almost as high, 29.5 in. and upwards, in the south-west of Ireland and in the south of France.

WIND

TEMPERATURE

WEATHER

AND

SEA

The wind still shows a distinct circulation round the cyclonic area. On our western and northern coasts it is chiefly N^W - light or moderate in force generally, strong in the St. George's and Bristol Channels; over England it is W^W or N.W^W, but over the Netherlands, Germany and Denmark it is S^W (S.W^W to S.E^W), while in Scandinavia it is chiefly E^W or N.E^W. Temperature has changed slightly and irregularly in these Islands; and differs but little from the average excepting in the central parts of Ireland and Scotland, where the readings are low; at Portsoy the thermometer stands at 34°, and at Naïra at 32°. On the Continent the thermometer has fallen, slight frost being now prevalent in many parts of France and Germany and hard frost in Sweden, the lowest readings reported being 7° at Haparanda and 10° at Stockholm. The weather shows a distinct improvement over Western Europe generally, but showers are still falling in the north-west of Ireland and some parts of central England; snow is reported at Skudersnaes and Munich, and rain at Biarritz. The sea remains rough or rather so on many parts of our western, northern and the French coasts.

Snow, sleet or cold rain fell yesterday over the United Kingdom generally - heavily at Shields; a large quantity of rain (1.3 in.) was reported also at Nice and Biarritz; lightning was seen at Holyhead in the evening. Frost occurred last night in many parts of our Islands; on the grass the thermometer fell to 25° in London and to 28° at Loughborough.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

At Stornoway and Valencia (Ireland) the rise of the barometer is now slackening materially. The cyclonic system over the North Sea will probably continue to disperse, but it is not unlikely that fresh disturbances will shortly begin to appear off our extreme western coasts.

FORECASTS *

For the 24 hours ending at NOON on 1st January, 1902

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	N.E ^W to E ^W winds, moderate or fresh; fair generally.	6 { SCOTLAND WEST	N ^W winds, falling light; fair generally, but some fog or mist. Colder.
1 { SCOTLAND EAST	Light breezes, chiefly N.W ^W ; fair generally,	7 { ENGLAND N.W.	
2 { ENGLAND N.E.	but some fog or mist. Colder.	8 { ENGLAND S.W.	N.W ^W winds, moderating and backing later; fair generally.
3 { ENGLAND EAST	W ^W to N.W ^W winds, light; cloudy at first,	9 { IRELAND NORTH	Same as Nos. 6 and 7.
4 { MIDLAND COUNTIES	with local showers, then fair, but some	10 { IRELAND SOUTH	N.W ^W to W ^W or S.W ^W winds; fair at first, some rain later.
5 { ENGLAND SOUTH	fog or mist at night.		
		WARNINGS	The Warning Signals have all been lowered this morning.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

* For terms for transmission of Forecasts by Telegraph, see next page

797/28 ADDITIONAL OBSERVATIONS made at Stations in the UNITED KINGDOM.

TELEGRAPHIC REPORTS TO-DAY.	YESTERDAY 6 P.M.				THIS MORNING 8 A.M.							PAST 24 HOURS.				
	Bar.	Temp.	Wind.	Weather.	Barometer.	Temperature.			Wind.	Weather.	Sea.	Weather.	Temperature.		Sun-	Rainfall
	Ins.	°			Ins. Change.	Dry.	Wet.	Change.					Max.	Min.	shine.	Ins.
London-on-Sea	*	*	*	*	*	*	*	*	*	c	*	b, o	41	34	5.0	0.01
Wotton Reigny (Penrith) ...	28.88	36	W 3	S	29.18 +4.8	35	34	+1	NW 2	o	*	ogm, s	38	33	0.0	0.22
... ..	29.03	40	W 2	o	29.20 +1.8	37	36	-1	W 1	b	*	-	42	36	1.2	0.03

REPORTS FOR YESTERDAY.

STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.	STATIONS.	TEMPERATURE.		Weather.	Sunshine.	Rainfall.
	Max.	Min.					Max.	Min.			
Harrogate, up to 6 p.m. ...	40	34	c, t, c	0.1	0.19	Worthing	*	*	*	5.1	*
Birmingham, 9 p.m. ...	39	32	ots, b	0.6	0.21	Llandudno	*	*	*	0.0	*
Lowestoft, up to 6 p.m. Not Recd.	*	*	*	*	*	Rhyl	*	*	*	0.0	*
Hastings	*	*	*	6.3	*	Southport, 9 p.m. ...	43	38	c, cp, b, cp	0.0	0.05
Eastbourne	*	*	*	5.4	*	Manchester, 9 p.m. ...	41	33	ot, b	0.1	0.09
Brighton	*	*	*	2.5	*	Darwen, 9 p.m. ...	37	33	om, t, s, cv	0.0	0.12
						Plymouth 9 p.m. ...	44	37	o, b, cp	3.3	0.27

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 8 a.m. yesterday.

STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE, F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
30. XII. 02				Ins.					Ins.
Madeira (Funchal) Not Recd.					Algiers	64	52	c o	
Madrid	43	32	o b	0.20	Tunis ... Not recd.				
Corsica (I. Sanguinaires) ...	55	43	r m	0.20	Vienna	43	28	o m	
Rome	53	51	o o	0.24	St. Petersburg	23	19	s o	0.20
Florence	51	45	r o	0.24	29. XII. 02	1 p.m.		1 p.m.	Measured 7 a.m.
Trieste	48	43	m m		Lugano	41		o	
Naples	55	52	o o		Davos	34		o	
Palermo	62	50	o b		Lucerne	45		b	
Malta	59	53	? c		Lausanne ... Not recd.				

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

TABLE SHOWING THE LOCAL STANDARD TIMES AND THE CORRESPONDING GREENWICH TIMES OF THE OBSERVATIONS RECORDED ON PAGE 1.

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

	Hours of Morning Observations by Local Standard Time.		Corresponding Greenwich Times.	Hours of Evening Observations by Local Standard.		Corresponding Greenwich Times.	31. XII. 1902.	Sunrise G.M.T.		Noon G.M.T.		Sunset G.M.T.	
								h m.		h m.		h m.	
British Isles, Belgium, Holland	8 a.m. (West European)	8 a.m.		6 p.m. (W.E.T.)†	6 p.m.		Yarmouth	8.6		11.56		3.46	
Germany, Denmark, Norway, Sweden ...	8 a.m. (Mid-European)	7 a.m.		8 p.m. (M.E.T.)	7 p.m.		Greenwich	8.8		12.3		3.58	
France	7 a.m. (Paris)	6.51 a.m.		6 p.m. (Paris)	5.51 p.m.		Wick	9.5		12.15		3.25	
Spain	9 a.m. (San Fernando)	9.25 a.m.		6 p.m. (San Fernando)	6.25 p.m.		Valencia	8.51		12.44		4.37	
Portugal	8 a.m. (Lisbon)	8.36 a.m.											

SUBSCRIPTIONS both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 " Single Copies, 6d.

Single Copies of the Daily Weather Report (price 1d.) may be obtained after 3 p.m. on the day of issue at the Meteorological Office, and at Messrs. W. H. SMITH & SONS' Bookstalls at the following terminus Railway Stations:—Victoria, Charing Cross, King's Cross, St. Pancras, Euston.

FORECASTS OF WEATHER for one day in advance are drawn up at the Meteorological Office at 11 a.m., and between 7 and 8 p.m. The latest forecast can be had by Reply Telegram, on paying at any Post Office in the United Kingdom Sixpence in addition to the cost of the inquiry and reply Telegrams. Information as to the Terms on which Forecasts can be sent daily, for a long or short period, may be obtained on application to the Meteorological Office, 63, Victoria Street, S.W., either personally or by post.

† Except at Oxford, where the observations are taken at 8 p.m.

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9).	Weather.	TEMP.		Sun-shine.	Rainfall.	
		At 32° and M.S.L.	Dry Bulb.	Force (0 to 12).	At 32° Fabr. and M.S.L.			Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Force (0 to 12).	Max.	Min.							
		Ins.					Ins.	Ins.										Hours.	Ins.		
1st	Perpignan.	29.56	53	NW	3	0	29.84	+50	52	-	+14	NW	3	0	-	-	55	38	-	0.59	
"	Corunna.	29.72	54	NW	2	0	29.77	+48	59	53	+7	S	3	0	5	-	59	52	-	0.12	
"	Lisbon.	29.94	55	WNW	2	0	30.00	+27	60	60	+9	WNW	3	0	-	-	60	51	-	0.24	
2nd	The Helder.	29.68	30	ESE	4	0	29.35	-37	32	32	0	ESE	5	0	4	-	32	30	-	0.35	
"	Corunna.	29.76	54	WSW	4	0	30.08	+31	52	50	-7	SW	3	0	6	-	63	46	-	0.12	
"	Lisbon.	30.10	58	N	4	+	30.23	+23	55	52	-5	NNW	3	0	-	-	64	55	-	0.08	
3rd	Corunna.	30.16	58	SW	3	C	30.23	+15	50	48	-2	WNW	4	0	7	-	59	46	-	0.08	
4th	Corunna.	30.30	57	NW	3	0	30.39	+16	45	43	-5	NW	1	f	6	-	59	39	-	-	
"	Lisbon.	30.36	54	NNE	3	0	30.33	-01	49	47	-5	NNE	4	f	-	-	61	48	-	-	
"	P. Delgada.	29.97	65	S	5	0	29.84	-26	65	64	+1	S	6	m	5	-	68	64	-	-	
5th	Corunna.	30.30	57	NW	1	0	30.16	-23	46	44	+1	NW	1	f	3	-	59	39	-	-	
6th	Corunna.	30.04	51	NW	1	0	29.97	-19	49	45	+3	W	3	f	3	-	52	42	-	-	
"	P. Delgada.	29.43	62	SW	8	m	29.32	-55	58	52	+2	W	7	m	7	-	64	52	-	0.24	
7th	Newton Reigny.	30.41	25	SE	2	0	30.42	+03	20	19	-7	Z	0	0	-	32	20	5.3	-		
8th	Corunna.	29.85	57	SW	1	0	29.69	-16	51	49	-1	S	3	0	2	-	57	45	-	-	
"	P. Delgada.	29.66	61	WSW	4	0	29.68	+21	61	56	+2	W	6	0	6	-	64	59	-	0.04	
9th	Corunna.	29.61	54	SE	3	0	29.57	-12	51	41	0	SE	3	0	2	-	55	45	-	0.08	
"	P. Delgada.	30.00	52	NW	7	+	30.15	+47	52	47	-7	NNW	8	0	6	-	63	50	-	0.32	
10th	Lisbon.	29.56	53	SW	2	0	29.62	+10	46	46	-11	NNE	2	f	-	-	61	45	-	0.28	
"	P. Delgada.	30.27	57	NNW	5	0	30.30	+15	56	50	+4	NW	3	0	4	-	59	52	-	-	
11th	Corunna.	29.85	52	NE	3	0	29.93	?	51	46	?	NE	3	0	5	-	52	45	-	-	
12th	Corunna.	29.93	52	NNE	3	0	29.97	+04	45	43	-6	NNE	1	f	-	-	54	?	-	-	
"	Lisbon.	29.93	51	N	4	0	30.07	+25	54	48	+3	NW	3	f	-	-	54	50	-	-	
"	P. Delgada.	30.12	57	NNW	5	0	30.29	+17	55	49	-6	NNW	3	0	3	-	64	54	-	0.20	
13th	Stornoway.	29.78	46	S	3	0	29.42	-31	47	45	+6	SSW	8	0	3	0	49	38	2.9	0.02	
"	Corunna.	29.97	50	NE	3	+	30.29	+32	52	48	+7	WSW	3	0	3	-	55	45	-	0.25	
"	P. Delgada.	30.27	59	WSW	4	0	30.37	+08	61	57	+6	WSW	5	0	4	-	61	55	-	-	
14th	Biarritz.	30.43	53	W	5	+	30.52	+31	49	?	-5	ESE	2	0	3	-	55	48	-	0.16	
"	Corunna.	30.36	57	SW	3	0	30.40	+11	52	46	0	SW	3	0	5	-	59	45	-	-	
"	Newton Reigny.	29.85	45	S	2	0	29.80	+02	47	46	+8	S	4	+	-	09.57	48	39	0.0	0.11	
15th	Lisbon.	30.49	53	SW	4	0	30.52	+02	52	51	+7	S	1	0	-	-	55	45	-	-	
"	P. Delgada.	30.44	61	SW	2	0	30.43	+07	62	60	+2	SW	5	0	4	-	64	60	-	0.12	
16th	Corunna.	30.47	57	NW	1	0	30.48	?	55	53	?	SW	3	0	5	-	59	50	-	-	
"	Lisbon.	30.54	56	WSW	1	0	30.56	+04	54	51	+2	NNW	1	0	-	-	59	52	-	-	
"	P. Delgada.	30.39	63	SW	5	0	30.52	+09	63	60	+1	SW	5	0	5	-	64	61	-	-	
17th	C. Gris Nez.	30.04	48	SW	7	f	30.00	-16	50	50	+6	SW	7	0	7	-	50	44	-	0.67	
"	Lorient.	30.25	55	SW	6	0	30.35	+07	54	?	0	SW	5	0	5	-	55	46	-	-	
"	Corunna.	30.47	63	SW	1	0	30.59	+11	55	54	0	SW	1	0	6	-	64	50	-	-	
"	Lisbon.	30.57	52	NNE	3	0	30.61	+05	42	42	-12	NNE	4	0	-	-	59	41	-	-	
"	P. Delgada.	30.32	63	S	6	0	30.31	-21	63	60	0	SSE	5	0	4	-	64	59	-	-	
18th	Jersey.	30.31	53	W	6	0	30.20	-04	52	48	-1	WNW	7	0	6	0	55	51	0.0	0.06	
"	Corunna.	30.63	51	SW	1	f	30.71	+12	54	52	-1	SW	1	0	0	-	63	46	-	-	
"	Lisbon.	30.57	52	N	3	0	30.60	-01	47	46	+5	NNE	3	0	-	-	54	42	-	-	
"	P. Delgada.	30.42	63	SSE	5	0	30.49	+18	62	60	-1	SE	5	0	4	-	66	61	-	-	
19th	Jersey.	30.39	50	WNW	6	0	30.45	+25	49	46	-3	NW	4	0	4	0	53	48	3.5	0.05	
"	Corunna.	30.66	59	SW	1	0	30.71	00	56	52	+2	NNW	3	0	5	-	61	48	-	0.08	
"	P. Delgada.	30.57	63	ESE	5	0	30.50	+01	60	57	-2	ESE	5	0	5	-	66	59	-	-	
20th	Jersey.	30.81	50	W	3	0	30.36	-09	52	51	+3	WNW	4	0	3	0	52	48	0.5	0.08	
"	Corunna.	30.74	55	NE	3	0	30.67	-04	50	47	-6	NE	1	0	5	-	57	43	-	-	
"	Lisbon.	30.46	55	NNE	4	0	30.46	-07	50	45	+1	NNE	5	0	-	-	59	48	-	-	
21st	Jersey.	30.40	50	WNW	4	0	30.44	+08	51	49	-1	WNW	3	0	3	0	55	48	0.3	0.01	
"	Corunna.	30.60	64	N	3	0	30.55	-12	54	53	+4	N	1	0	4	-	57	48	-	-	
"	Newton Reigny.	30.22	45	W	2	0	30.32	+16	45	44	-1	W	2	0	-	0mg	49	44	0.0	-	
22nd	Jersey.	30.44	50	NNW	2	0	30.50	+06	50	48	-1	NNE	2	0	2	0	52	50	0.3	0.01	
"	Corunna.	?	58	?	3	0	30.31	-24	43	42	-11	NNE	1	f	3	-	59	37	-	-	
"	P. Delgada.	30.23	57	ENE	2	m	30.08	-26	58	57	+1	JSE	4	f	3	-	63	55	-	0.12	
23rd	Jersey.	30.52	49	ENE	3	0	30.55	+05	40	38	-10	NE	3	0	3	0	51	40	0.0	-	
"	Corunna.	30.23	57	NNE	1	0	30.32	+01	45	43	+2	NE	3	0	3	-	59	39	-	-	
"	Lisbon.	30.21	51	NNE	3	0	30.35	+12	46	46	-1	NNE	4	0	-	-	57	45	-	-	
"	P. Delgada.	29.84	57	NW	2	+	29.88	-20	52	49	-6	WNW	3	0	3	-	63	52	-	0.32	
24th	Jersey.	30.54	43	ENE	3																

REPORTS FOR DECEMBER, 1902.

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY, (CONTINUED.)

DATE.	STATIONS.	YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.					
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9).	Weather.	Temp.		Sun- shine.	Rainfall		
				At 32° and M.S.L.	Dry Bulb.		Direc.	Force (0 to 12).	At 32° Fahr. and M.S.L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Direc.	Force (0 to 12).			May.	Min.
28 th	Corunna.	30.24	54	NE	1	0	29.77	?	54	53	?	W	6	0	7	-	55	41	-	0.12		
"	Lisbon.	30.29	52	WNW	4	0	30.14	-24	51	49	+9	WSW	4	0	-	-	52	42	-	-		
"	P. Delgada.	30.43	59	E	2	0	30.26	-116	57	51	-3	N	1	0	-	-	64	55	-	-		
30 th	Jersey.	29.20	40	WNW	4	0	29.19	-09	40	38	-4	W	5	0	4	cg	48	38	0.8	0.54		
"	Corunna.	29.73	50	WNW	6	+	29.58	-19	48	45	-6	WNW	6	0	7	-	54	39	-	0.16		
"	Lisbon.	29.79	52	WNW	5	+	29.86	-28	47	44	-4	NW	4	0	-	-	57	47	-	0.32		
31 st	Jersey.	29.20	39	W	5	bcg	29.35	+16	42	39	+2	NW	4	0	3	bcg	44	37	1.4	0.16		
"	Lorient.	29.32	45	NW	6	0	29.44	+18	45	?	0	WNW	5	0	4	-	52	37	-	0.12		
"	Corunna.	29.58	46	NW	3	0	29.78	+20	48	46	0.	WNW	5	0	6	-	50	41	-	0.28		
"	Lisbon.	29.88	48	W	4	bc	29.97	+11	49	46	+2	NW	2	0	-	-	52	45	-	0.28		
"	P. Delgada.	30.36	53	NNW	3	0	30.30	-08	56	54	+4	NW	3	0	1	-	59	52	-	-		

2. CORRECTIONS.

[illegible]