

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER, 1897.

DAILY WEATHER REPORT.

July to December 1897.

Map Showing Stations



DAILY WEATHER REPORT

for 8 a.m. on *Wednesday, 1st December, 1897.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.								TEMP.			
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	29.34	7	N	2	C	29.54	+4.5	-6	-7	-13	N	2	b	#	c	#	10	?	Ins.
	Hernösand ...	29.46	1	N	0	b	29.66	+4.2	1	0	-4	N	0	b	#	b	#	7	-4	-
	Stockholm ...	29.40	31	N	0	C	29.38	+1.2	32	30	+15	NE	6	S	#	C	#	32	14	-
	Wisby ...	29.40	27	N	4	0	29.20	-0.8	35	34	+6	S	4	r	#	0	#	35	21	-
	Karlstad ...	29.38	13	N	2	b	29.40	+1.0	21	20	+12	NE	6	C	#	b	#	#	#	-
	Bodö ...	29.44	19	E	4	bc	29.80	+6.0	22	20	+4	E	4	S	1	bc	#	22	14	-
	Christiansund ...	29.37	29	E	2	b	29.58	+3.3	26	25	-4	N	0	b	3	b	#	32	25	0.04
	Skudesnaes ...	29.22	32	ESE	1	b	29.38	+0.9	30	27	+4	ESE	4	b	2	c.b	#	34	25	#
	Færder (Christiania Fjord) ...	29.32	26	NNE	4	b	29.43	+1.6	22	20	-9	NNE	6	0	3	b	#	31	19	-
	Skagen (The Scaw) ...	29.21	34	E	1	S	29.28	-0.2	29	23	-5	NE	6	0	1	S	#	36	28	0.12
BRITISH ISLANDS.	Fanö ...	29.15	41	N	0	r	29.18	-2.8	34	34	-3	NE	1	0	#	r	#	43	34	0.79
	Sumburgh Head ...	29.13	38	ESE	3	0	29.46	+2.8	39	35	+2	E	3	C	5	C.O	#	40	35	-
	Stornoway ...	29.12	37	WNW	4	r	29.48	+3.2	38	37	-1	NE	3	0	3	r	0.5	40	35	0.30
	Wick ...	29.10	35	WNW	3	C	29.47	+3.9	38	37	+2	SE	2	C	3	C	#	41	30	0.07
	Nairn ...	29.15	36	N	1	bc	29.44	+2.5	35	34	-4	N	1	0	1	bc	#	44	31	0.06
	Aberdeen ...	29.14	32	N	2	b	29.43	+2.2	35	32	-3	N	3	bc	5	bc, r, hq	3.3	40	31	0.14
	Leith ...	29.17	37	N	3	C	29.32	+0.4	33	33	-10	WSW	1	bc	#	C	#	44	32	-
	Shields ...	29.19	42	N	1	0	29.35	+0.3	34	33	-13	WNW	2	bc	2	0.0m	#	43	32	-
	Spurn Head ...	29.17	40	WNW	4	r	29.35	-1.2	38	36	-3	N	4	bw	4	og, r, b	#	47	37	1.00
	York ...	29.23	40	SSW	1	r	29.38	-0.5	35	34	-10	N	1	b	#	0.1	0.0	49	33	0.40
GERMANY & HOLLAND.	Loughborough ...	29.25	41	N	2	r	29.42	-1.9	31	31	-10	WNW	1	b	#	C.O, r, b	#	51	31	0.24
	Ardrossan ...	29.20	44	N	3	b	29.40	+0.6	34	34	-12	NNE	1	bm	1	0.6, h, r, s	#	46	33	0.00
	Malin Head ...	29.22	43	WSW	5	og	29.43	+0.6	41	39	-4	N	4	C, p, g	4	C, og, p	#	46	36	0.05
	Belmullet ...	29.28	43	WSW	3	C	29.58	+0.7	44	40	-3	N	5	0	#	r, c	#	48	40	0.49
	Donaghadee ...	29.25	40	N	4	bc	29.38	-0.7	37	36	-5	WNW	3	bc	1	bc	#	43	32	0.04
	Liverpool (Bidston) ...	29.29	41	WNW	1	r	29.39	-1.2	36	35	-13	SSE	1	r	1	r, s	#	51	33	1.79
	Holyhead ...	29.29	43	N	4	g, r	29.36	-1.8	43	41	-7	WNW	5	r	4	g, r	#	50	40	1.41
	Parsonstown ...	29.38	40	N	2	bc	29.44	-0.9	39	38	-8	N	1	C	#	0.1	0.0	47	37	0.84
	Valencia ...	29.52	45	N	2	bc, g, h, p	29.60	-0.2	44	41	-8	WNW	8	og, h, p	6	g, h, p	0.8	52	42	0.37
	Roche's Point ...	29.43	44	WNW	5	bc, g, r	29.55	-1.1	43	42	-7	N	5	C	4	og, r, g, l	#	62	40	0.20
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.38	47	WNW	6	bc	29.48	-1.9	47	43	-5	NW	7	bc, g, r	5	0.6, c	0.0	53	39	0.23
	Scilly ...	29.55	49	N	7	r, g	29.64	-1.9	45	44	-7	WNW	5	C	5	C, p, r, g	1.3	55	44	0.11
	Prasle Point ...	29.50	46	WSW	7	r	29.54	-2.8	41	40	-9	WNW	5	C, g, p	5	C, g, p	#	57	40	0.33
	Jersey (St. Aubin's) ...	29.67	52	WSW	6	opm	29.59	-3.6	47	44	-3	WNW	5	C, g, h, r	5	g, h, r	#	53	46	0.37
	Hurst Castle ...	29.44	53	SW	7	og, p	29.50	-2.9	42	40	-8	WNW	2	C	2	p, d, g, r	#	53	42	0.14
	Dungeness ...	29.45	52	SW	8	og	29.47	-2.9	40	38	-7	N	6	bc	5	op, og, r	#	52	39	0.16
	North Foreland ...	29.45	51	SW	6	r	29.44	-3.5	40	39	+1	N	6	C, g	4	C, r	#	51	38	0.11
	London (Brixton) ...	29.37	52	WSW	6	C	29.47	-2.7	37	35	-7	WSW	2	b	#	C, og, p, b	0.0	53	37	0.04
	Oxford ...	29.35	43	N	3	0	29.47	-2.3	35	34	-8	WSW	2	b	#	C, g, b	#	51	34	0.06
	Cambridge ...	29.26	51	SW	6	0	29.44	-2.4	34	34	-5	SW	3	b	#	og	0.1	52	33	0.07
PENIN- SULA.	Yarmouth ...	29.25	48	WSW	5	C, g	29.35	-2.7	38	37	+1	N	3	bc, m	3	C, g	#	48	35	0.05
	Cuxhaven ...	29.35	36	SW	7	r	29.22	-3.2	40	40	+4	WSW	2	r	#	S, r	#	45	36	0.16
	Berlin ...	29.58	36	N	5	0	29.41	-2.4	40	37	+11	SW	6	0	#	0	#	40	29	0.12
	Wiesbaden ...	#	#	#	#	#	29.56	-3.2	38	36	+1	SW	2	0	#	#	#	41	37	0.08
	Munich ...	29.98	25	SW	3	b	29.74	-1.6	28	27	-2	S	3	bc	#	b	#	34	21	-
	The Helder ...	29.28	48	SW	6	r	29.28	-3.7	41	40	-2	WSW	3	r	2	r	#	48	39	0.63
	Brussels ...	#	#	#	#	#	29.45	-4.4	41	39	+8	SW	5	C	#	r	#	45	33	0.32
	Cape Gris Nez ...	29.43	51	N	8	r	29.43	-4.5	44	44	-	WNW	6	C	6	r	#	52	39	1.18
	Paris ...	29.84	43	WSW	4	0	29.62	-4.2	42	40	+13	SW	3	bc	#	0	#	46	29	0.16
	Brest ...	29.73	53	WSW	7	C	29.70	-3.1	42	44	-3	NW	6	C	6	C	#	55	41	0.08
GERMANY & HOLLAND.	Lorient ...	29.83	52	WSW	6	r	29.73	-3.3	50	50	0	N	5	C	6	r	#	57	46	0.24
	Rocheport ...	30.04	52	WSW	5	0	29.88	-2.5	50	46	+7	NW	4	bc	#	C, 0	#	52	41	0.20
	Belfort ...	30.04	32	WSW	2	b	29.70	-3.7	38	33	+6	WSW	5	0	#	b	#	39	30	-
	Lyons ...	30.13	?	SW	1	b	29.91	-2.4	31	29	-3	S	2	0	#	b	#	42	28	-
	Nice ...	29.93	47	SW	2	b	29.95	+2.6	37	?	-6	E	3	b	?	b	#	?	?	-
	Perpignan ...	30.12	43	N	0	b	30.00	-1.2	34	32	-9	SW	1	b	#	b	#	51	32	-
	Biarritz ...	30.07	50	S	3	b	29.93	-2.1	53	46	+7	SW	4	0	3	b	#	55	46	-
	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Lisbon ...	30.19	54	WNW	3	b	30.27	+0.3	53	50	-1	N	1	0	#	b	#	59	50	-
	Azores (P. Delgada) ...	30.30	58	NE	3	b	30.33	#	59	57	-	NE	4	bc	3	b	#	63	57	-

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Wednesday, 1st December, 1897.

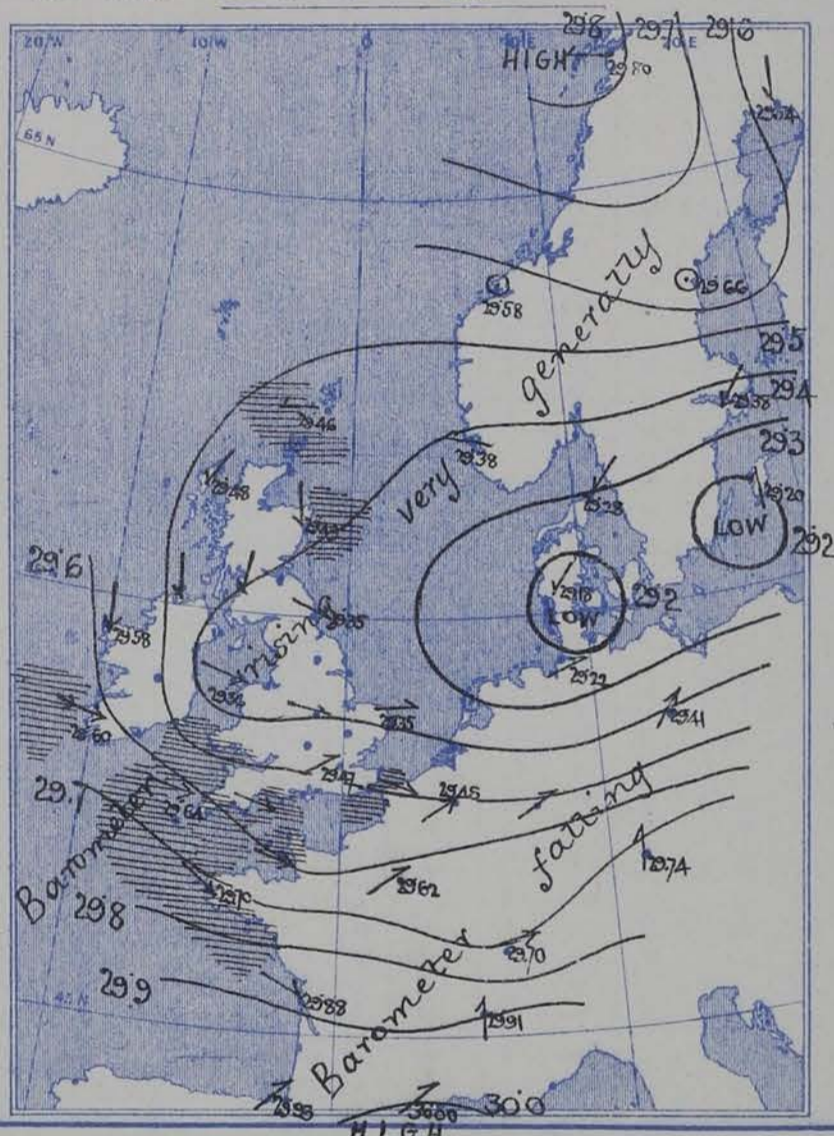
BAROMETER, WIND AND SEA.

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 ≡≡≡

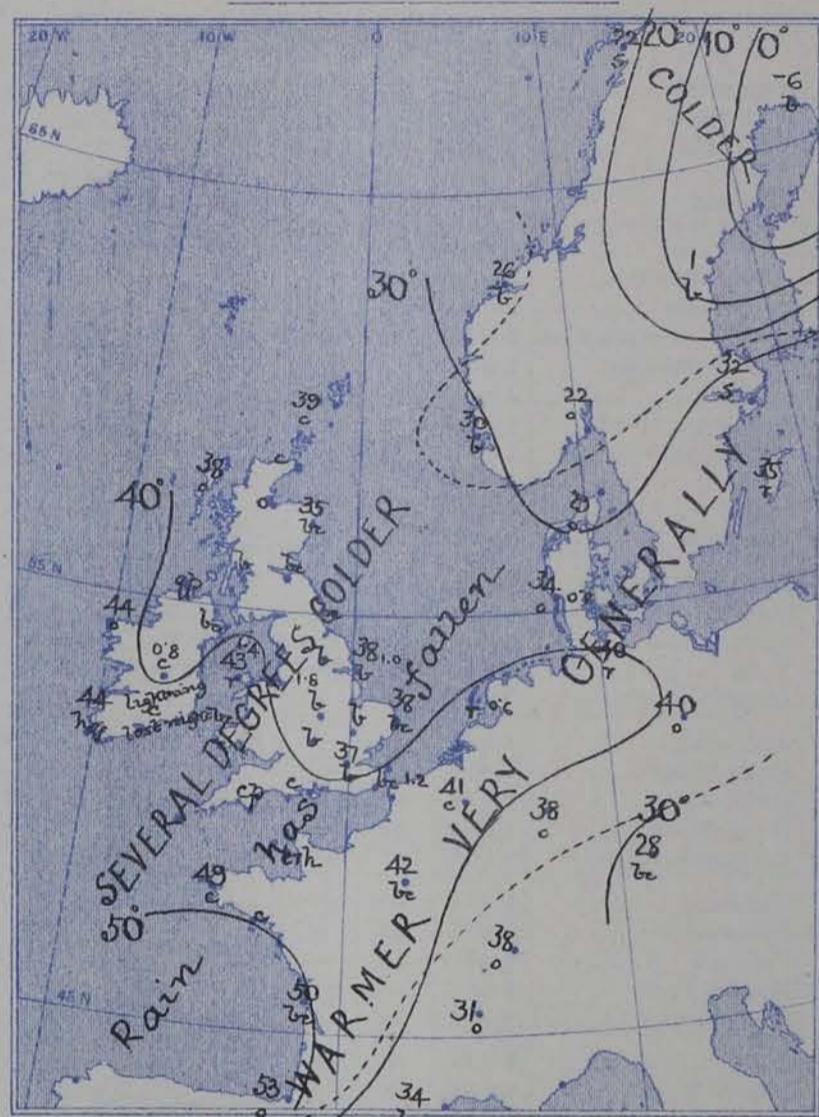


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	30.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 89	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

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† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards in Portugal; 29.8 in. and upwards in a new high-pressure system appearing off the northwest of Norway.
 Lowest, 29.2 in. and less, in two small depressions, — one lying over Denmark and the other near Gotthland; 29.4 in. and less, in a large and complex area extending from Denmark and the south of Scandinavia over the eastern and northern parts of England.
 Gradients slight over the northern, but moderate in the southern parts of our area.
 Barometer rising at all but the French and German stations.

TEMPERATURE

Highest, 53° at Biarritz and Lisbon, 50° at Lisieux and Rochefort, 49° at Brest, and 47° at Pembroke and Jersey.
 Lowest, -6° F. at Haparanda, +1° at Helsingfors, and 21° at Karlsbad; lowest in our Islands 31° at Loughborough.
 Frost occurred last night over the northern and central parts of Great Britain.

WIND

Varying between N. and E. in Scotland and also in Scandinavia and Denmark, light or moderate generally, but strong in the south of Sweden.
 Strong, to a gale, from the NWnd in the southwest of our Islands, and fresh or strong from the Wnd over the English Channel and north of France; SW over the Netherlands, Germany, and the central and southern parts of France.

WEATHER

Rainy in the northwest of England as well as in the Netherlands, North Germany, and the south of Sweden; snow reported at Stockholm and also at Bodo. Showery at some of the Irish stations, with hail at Valencia.
 Fair or fine in most other parts of our area. 9.20 am. A heavy squall with thunder and lightning has just passed over Scilly.
 Rain fell yesterday at most stations, — heavily over the northern parts of England and Wales; at Holyhead the fall amounted to 1.4 in.; and at Liverpool to 1.8 in. Lightning was seen last night at Rock Point.

SEA

Rough or rather so on our southern coast and off the north of France, as well as off the northeast of Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system is moving southwards and is at the same time gradually filling up. The wind is likely to subside on our southern coast, but in the event it will probably continue to blow hard for a time from the NWnd or Nnd.

FORECASTS

For the 24 hours ending at NOON on 2nd DEC: 1897.

DISTRICTS.

FORECASTS.

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

E^{ly} and NE^{ly} winds, moderate or fresh; fair generally, but local showers.
 W^{ly} winds, shifting later to the NE^{ly}; fair generally, but local showers.
 W^{ly} to Variable breezes; changeable, some cold rain or sleet.



DISTRICTS.

FORECASTS.

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

N^{ly} winds, freshening; showery at first then fair.
 NW^{ly} to N^{ly} winds, strong to a gale at first but moderating later; squally, showery.
 Same as Nos 6 and 7.
 Same as No 8.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.27	34	32	ESE	2	c	2	Valencia ...	29.50	48	45	WNW	6	q p	6
Sumburgh Head ...	29.12	37	36	ESE	3	c	5	Scilly ...	29.63	54	53	SW	7	cp	5
Stornoway ...	29.13	40	39	W	4	r	4	Jersey ...	29.76	53	50	SW	7	o	5
Aberdeen ...	29.16	38	35	SW	2	bc	3	Hurst Castle ...	29.61	53	51	SW	6	odp	3
Shields ...	29.25	44	42	W	3	o	3	Dungeness ...	29.58	51	50	WSW	6	op	5
Ardrossan ...	29.21	46	44	W	4	o	2	North Foreland ...	29.57	51	50	SW	5	c	3
Malin Head ...	29.27	43	42	W	5	c	4	London (Westminster) ...	29.53	54	49	WSW	4	c	#
Belmullet ...	29.39	41	40	WNW	3	r	#	Yarmouth ...	29.46	47	45	WSW	4	c	4
Holyhead ...	29.31	44	43	WNW	4	gmr	3	Rochefort ...	30.15	51	48	SSW	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning cloudy and showery in the western and southern part of the United Kingdom, but fair or fine in most other parts of western and southern Europe, as well as in Scandinavia; dull over Russia, Austria, and Eastern Germany, with rain at Memel and snow at Neufahrwasser. Rain falling later over Western Europe generally, heavily in the northern parts of England, Wales, and also at Faro and Cape Fin Vig. Lightning seen at Rock Point at night.

Temperatures risen in our Islands and also in Russia and Austria, fallen in most other countries. Morning readings highest 60° at Algiers and Malta, 58° at Athens and Oram, and 57° at Patras; above 50° at many of the Mediterranean stations, as well as on our extreme southern coasts. Lowest -3° F. at Kuopio, +5° at Helsingfors, 7° at Haparanda and 9° at Umeå; below the freezing point over northern Europe generally, as well as in many parts of France and Germany. Rising during day to 50° and upwards over the southern part of our Islands; reaching 55° at Scilly, Brest, and Biarritz, 57° at Lorient and 59° at Lisbon. Frost occurring over the northern and central parts of Britain at night.

Wind moderate from the Wnd in Scotland, fresh to strong from the SWnd over Ireland, England and the neighbouring parts of the Continent. Calm at many of the Scandinavian stations; Nth over the northern parts of the Baltic. NWth or Wth over Denmark, Germany and Austria, with a gale at Faro. Nth to NWth in Italy, NE over the Spanish Peninsula; E in the southeast of France. Subsequently increasing to a gale from the SWnd or Wnd on the south coasts of England and Ireland; no important change occurring elsewhere.

Barometer highest 30.1 in. to 30.2 in. and upwards over the Spanish Peninsula and the southern part of France. Lowest 29.1 in. and less, in two depressions one lying off the north of Scotland, another over Lapland, and the third over Finland and the Baltic Provinces. Depression off north of Scotland subsequently spreading southwards, and barometer falling steadily in our Islands, especially in the southeast.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on *Thursday, 2^d December, 1897.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.									TEMP.		
	At 32° and M.S.L.	Dry Bulb.	Dirac. (0 to 12.)	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.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
	Haparanda ...	29.85	-10	Z	0	b	30.06	+52	0	-1	+6	H	2	f	#	b	9	-17	-
	Hernösand ...	29.98	3	Z	0	b	30.11	+45	4	4	+3	Z	0	b	#	b	5	-2	-
	Stockholm ...	29.42	31	NE	8	S	29.71	+33	33	33	+1	E	2	0	#	S	33	14	0.79
	Wisby ...	29.37	35	SSW	6	0	29.73	+53	31	31	-4	S	4	0	#	0	37	25	0.32
	Karlstad ...																		
	Bodö ...	29.82	35	WSW	6	c	30.03	+23	31	29	+9	ENE	4	b	1	c	36	19	-
	Christiansund ...	29.95	29	ENE	1	b	30.15	+37	35	33	+9	HNE	1	S	4	b	35	25	0.16
	Skudesnaes ...	29.88	24	Z	0	b	30.10	+72	26	24	-4	Z	0	b	2	b	34	21	#
	Færder (Christiania Fjord)	29.77	29	HNE	7	b	30.01	+58	32	27	+10	HNW	6	b	3	b	32	21	-
	Skagen (The Scaw)	29.69	30	NE	6	bc	29.92	+64	31	30	+2	NE	6	bc	1	bc	31	28	0.08
	Fanö ...	29.68	30	ENE	4	bc	29.94	+76	29	27	-5	ENE	3	b	#	bc	34	28	-
	Sumburgh Head	29.89	39	NE	2	b	30.22	+76	36	35	-3	H	1	0	4	b	40	35	0.10
	Stornoway ...	29.95	37	HNE	3	b	30.30	+82	37	36	-1	H	4	bc	4	c.b	42	34	0.10
	Wick ...	29.90	38	SE	3	0	30.26	+79	35	34	-3	H	1	bc	1	sp	43	34	0.07
BRITISH ISLANDS.	Nairn ...	29.91	38	NE	3	c	30.29	+85	39	38	+4	NW	2	c	2	c	44	31	0.05
	Aberdeen ...	29.84	37	H	4	bq	30.26	+83	34	33	-1	HNW	2	bc	4	bc, bq	51	39	0.10
	Leith ...	29.82	36	NE	3	b	30.26	+94	38	36	+5	HW	2	b	#	b	42	31	0.04
	Shields ...	29.72	38	HNE	4	bc, shp	30.16	+81	42	38	+8	HNE	4	c	4	hrsp	42	32	0.16
	Spurn Head ...	29.58	40	H	4	cq	30.05	+70	40	35	+2	H	5	bc	5	qrhp	46	36	0.16
	York ...	29.62	37	HNW	1	op	30.15	+77	34	32	-1	HNW	1	c	#	b, op	42	31	0.02
	Loughborough ...	29.63	36	H	3	0	30.11	+69	32	31	+1	H	1	bm	#	fg, p, b	38	31	0.05
	Ardrossan ...	29.87	33	H	1	b	30.30	+90	38	36	+4	H	1	b	1	b	40	32	-
	Malin Head ...	29.88	43	HNE	5	bc	30.33	+90	44	43	+3	HNE	4	bc, p	3	c, bc	44	41	-
	Belmullet ...	29.93	44	HNE	3	bc, p	30.40	+82	42	39	-2	NE	2	0	#	c, bc, p	47	39	0.10
	Donaghadee ...	29.83	43	H	8	0	30.29	+91	44	42	+7	NE	7	b	5	b	45	34	0.02
	Liverpool (Bidston)	29.72	36	HNE	2	b	30.21	+82	37	35	+1	HNE	3	c	2	r, b	38	34	0.12
	Holyhead ...	29.72	45	NE	6	c	30.22	+86	44	39	+1	HNE	5	c	4	cp	45	39	0.05
	Parsonstown ...	29.83	38	Z	0	b	30.35	+91	28	28	-11	Z	0	b	#	c, b	43	27	-
	Valencia ...	29.90	46	HNE	4	o, p	30.39	+79	38	36	-6	E	1	b	3	r, h, p	48	37	0.18
GERMANY & HOLLAND.	Roche's Point ...	29.82	43	HNE	5	b	30.33	+78	37	35	-6	HNW	3	b	3	q, b	46	35	0.02
	Pembroke (St. Ann's Hd.)	29.66	43	NE	5	bc	30.18	+70	40	36	-7	ENE	3	bc	4	o, bc	47	37	0.14
	Scilly ...	29.60	45	HNW	7	cq	30.11	+47	45	43	0	HNE	6	cq	5	teq, c, cl	50	41	0.24
	Prawle Point ...	29.57	39	HNW	3	c	30.08	+54	34	32	-7	HNE	5	bc	4	q, p, c	48	32	0.02
	Jersey (St. Aubin's)	29.60	47	HNW	4	cp	29.94	+35	42	39	-5	HNE	6	cp, sh	5	hr, h, sh	49	38	1.08
	Hurst Castle ...	29.58	40	HNW	1	c	30.01	+51	36	34	-6	HNE	3	bm	2	bc, c	47	36	0.09
	Dungeness ...	29.56	38	H	2	bc	29.87	+40	38	37	-2	HNW	5	cp	4	bc	51	34	0.01
	North Foreland	29.57	41	WSW	2	c	29.90	+46	40	39	0	H	8	r	5	b, c	45	38	0.10
	London (Brixton) ...	29.56	41	HW	2	0	29.99	+52	37	35	0	H	6	bc	#	bc, op	47	36	-
	Oxford ...	29.68	38	H	2	0	30.09	+62	32	29	-3	H	3	b	#	bc, h, p, b	46	32	0.03
	Cambridge ...	29.61	39	H	1	o, q	30.04	+60	37	35	+3	H	4	0	#	c, o, q	47	32	0.17
	Yarmouth ...	29.53	38	HNW	2	bc	29.94	+59	40	37	+2	NE	6	cq	5	bc	42	35	0.14
	Cuxhaven ...	29.46	36	NE	2	0	29.90	+68	33	33	-7	NE	4	S	#	o, r, S	40	32	0.12
	Berlin ...	29.60	38	H	2	b	29.86	+45	37	37	-3	SW	2	0	#	b	43	37	0.04
FRANCE & BELGIUM.	Wiesbaden ...	#	#	#	#	#	29.83	+27	38	37	0	SW	2	0	#	#	43	37	0.08
	Munich ...	29.79	35	H	4	0	29.89	+15	32	31	+4	SSW	1	c	#	0	41	28	-
	The Helder ...	29.57	43	WSW	3	b	29.88	+60	38	36	-3	NE	6	c	3	r, b	45	36	1.06
	Brussels ...	#	#	#	#	#	29.81	+36	36	36	-5	SSW	1	0	#	0	44	34	-
	Cape Gris Nez ...	29.54	44	S	2	bc	?	?	42	40	-3	H	6	0	6	bc	46	37	0.08
	Paris ...	29.69	42	WSW	2	bc	29.82	+20	34	34	-8	SE	1	m	#	bc	48	32	-
	Brest ...	29.64	47	WNW	5	c	29.93	+23	48	42	-1	HNE	5	0	3	c	55	39	0.08
	Lorient ...	29.69	48	WNW	5	c	29.87	+14	41	39	-9	NE	5	c	5	c	57	37	0.04
	Rochefort ...	29.82	43	HW	4	r	29.77	-11	38	37	-12	E	4	m	#	r	54	36	0.28
	Belfort ...	29.78	35	WSW	1	c	29.82	+12	34	33	-4	Z	0	0	#	c	39	31	0.08
	Lyons ...	29.88	35	SSW	2	0	29.87	-04	29	29	-2	E	1	b	#	0	39	29	-
	Nice ...	29.79	42	Z	0	bc	29.75	-20	40	36	+3	E	3	bc	3	bc	48	37	-
	Perpignan ...	29.80	50	HW	1	0	29.80	-20	43	43	+9	SW	1	0	#	0	60	34	0.04
	Biarritz ...	29.88	48	WSW	6	r	29.75	-18	45	43	-8	SW	6	0	6	r	55	43	1.06
PENIN- SULA.	Corunna ...	30.18	56	HW	4	c	30.11	-11	48	46	-5	HNW	4	r	#	c	61	32	0.20
	Lisbon ...	30.45	59	ENE	4	bc	30.52	+19	57	56	-2	ENE	4	0	3	bc	64	55	-
	Azores (P. Delgada)																		

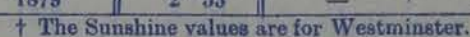
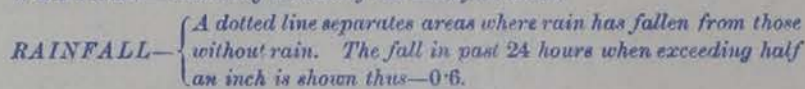
For Explanation of Columns, see bottom of last page.

+ Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 11.6 hrs;

Thursday, 2nd December. 1897.

SEA—Rough  : High 

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and upwards, in an anticyclone lying off the west of Ireland.
 Lowest, 29.7 in. and less, in a small depression near Gotland; 29.8 in. and less, over the south of France.
 Gradients moderate over the south and east of England and also over the south of Sweden, but slight elsewhere.
 Barometer rising briskly, in most places, but falling a little in the south of France.

TEMPERATURE

Highest, 48° at Perth and Lisbon, 45° at Lill, and Biarritz, and 44° at Malin Head, Donaghadee, and Holyhead.
 Lowest, 17° zero at Hoparanda, +4° at Helsingfors and 29° at Fins; (2) 28° at Laronskrona and 32° at Loughborough; (3) 29° at Lyons.
 Frost occurred last night over the northern and central parts of the United Kingdom, the lowest readings reported being:—
 (1) In the screen 27° at Laronskrona and 30° at Aberdeen; (2) On the grass 24° at Loughborough, and 28° at Oxford.

WIND

N¹ or NE¹ over northwestern Europe as a whole, and strong in force on our own eastern and southern coasts, with a fresh gale at the North Foreland. Light from the NW¹ in the east of Scotland.
 Variable or SW¹ over Germany and the south of France.

WEATHER

Fair or fine over the greater part of Northwestern Europe, but showery on the Kentish coast, as well as at Jersey and Malin Head.
 Snow is falling at Christianmünd and also at Cuxhaven.
 Cloudy or dull at most of the French and German stations.
 Rain, hail, or snow fell yesterday in most parts of our area, the amount being as much as 1.1 in. at Jersey, the Helder and Biarritz.
 Thunderstorms occurred yesterday or in the night at Lill, and Jersey.

SEA

Rough at Cape Fin May and Biarritz, and rather rough on the more exposed parts of our eastern and southern coasts, as well as at Donaghadee.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west appears to be spreading eastwards, and fair cold weather is probable in most districts. The wind on our east and south-east coasts is likely to moderate shortly.

FORECASTS

For the 24 hours ending at NOON on 3RD DEC^R 1897.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NW ¹ to N ¹ winds, light or moderate; fair generally, but snow showers in places.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N ¹ winds, moderate or fresh; fair generally, but snow showers in places.
3	ENGLAND EAST	Same as N ^o 5.
4	MIDLAND COUNTIES	Same as N ^o 2.
5	ENGLAND SOUTH	N ¹ and NE ¹ winds, strong at first, but moderating later; fair generally.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	N ¹ and NE ¹ winds, moderate; fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NE ¹ winds, fresh or strong; fair generally.
9	IRELAND NORTH	Same as N ^o 6+7.
10	IRELAND SOUTH	
WARNINGS		At 10.30 am to districts 7 and 9 "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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.64	33	28	E	6	b	3	Valencia ...	29.76	45	42	N	6	rhg	6
Sumburgh Head ...	29.71	39	36	NE	3	c	5	Scilly ...	29.58	48	45	W	6	cgy	5
Stornoway ...	29.75	42	40	E	3	c	3	Jersey ...	29.62	45	43	W	3	c p	3
Aberdeen ...	29.67	38	34	N	3	bc	5	Hurst Castle ...	29.53	47	44	W	1	bc	2
Shields ...	29.55	40	39	NNE	3	orpk	3	Dungeness ...	29.51	49	45	W	3	bc	2
Ardrossan ...	29.66	39	37	NNE	1	b	1	North Foreland ...	29.54	42	41	WSW	2	b	2
Malin Head ...	29.62	44	42	NNE	4	c	5	London (Westminster) ...	29.48	48	44	W	2	bcm	#
Belmullet ...	29.75	46	42	N	4	c	*	Yarmouth ...	29.48	42	40	W	3	bc	3
Holyhead ...	29.53	44	41	NE	5	c p	4	Rocheport ...	29.83	47	45	HW	5	r	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning rainy in the northwest of England, as well as over the Netherlands, Denmark, and North Germany; snow falling over the south of Sweden, the Gulf of Finland and the Baltic Provinces, as well as at Rode. Fair or fine in most other parts of Europe, but showery at some of the Irish stations. Showers of rain, hail, or sleet falling later in most parts of Western Europe, heavy rain at Jersey, the Helder, and Biarritz, and considerable quantities of snow in the south of Sweden. Thunderstorms occurring at Scilly and Jersey.

Temperature fallen in our Islands, as well as in most parts of southern and eastern Europe, but risen elsewhere. Morning readings highest 59° at Malta, 57° at Algiers and 56° at Corunna and Oran; above 50° over the Spanish coast and the central and southern parts of the Mediterranean generally. Lowest -6° F. at Haparanda, +1° at Helsingfors, and 10° at Uleaborg and Kuopio; below the freezing point over northern Europe generally, as well as in Austria, northern Italy, and the central parts of Spain, France and England. Daily maxima below 45° at our northern and eastern stations, and below 50° in most other parts of the Kingdom; thermometer exceeding 55° in the west and south of France, and touching 60° at Perpignan.

Wind W or NW over Ireland, England, and the north of France, and strong in force on our western and southern coast; SW over the remainder of France, and also over the Netherlands and Germany, with a gale at some of the Baltic stations; E or NE over Denmark, the south of Scandinavia, and the north of Scotland. Calm in Austria; variable over Spain, Italy, and the south of Russia. Subsequently shifting to NE or N. in all the more western and northern parts of our Islands, and increasing to a gale in the Irish Sea.

Barometer highest 30.1 in. to 30.2 in. in an anticyclone lying over the Spanish Peninsula and Algeria; 29.8 in. and upwards in a new area appearing off the northwest of Norway. Lowest 29.0 in. and less in a depression with its centre near Copenhagen, the borders of the system stretching southwards over the more central parts of our Islands. Depression subsequently moving eastwards and partially filling up; barometer rising briskly over the United Kingdom.

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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STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		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.)		Max.	Min.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	30.27	11	Z	0	0	30.41	+35	9	7	+9	Z	0	0	#	0	#	12	-3	-	
	Hernösand ...	30.28	3	Z	0	0	30.41	+30	3	2	-1	Z	0	0	#	0	#	7	-2	-	
	Stockholm ...	30.05	34	Z	0	0	30.24	+53	33	32	0	NE	2	0	#	0	#	34	30	-	
	Wisby ...	30.04	32	S	4	0	30.21	+48	32	31	+1	SE	4	0	#	0	#	32	28	-	
	Karlstad ...	30.11	29	N	4	0	30.24	+35	29	26	+7	N	4	0	#	0.8	#	#	#	-	
	Bodo ...	30.17	30	HW	4	0	30.21	+18	29	26	-2	E	4	0	1	0	#	31	23	-	
	Christiansund ...	30.31	35	NE	1	0	30.29	+14	30	29	-5	ESE	2	0	3	0	#	?	28	0.32	
	Skudesnaes ...	30.29	25	Z	0	0	30.30	+20	31	28	+5	E	2	0	1	0	#	31	23	#	
	Færder (Christiania Fjord)	30.19	37	N	6	0	30.29	+28	32	29	0	NNE	4	0	2	0	#	37	32	-	
	Skagen (The Scaw)	30.15	33	NE	5	0	30.23	+31	33	32	+2	NNE	2	0	0	0	#	34	30	-	
Fanø ...	30.19	29	ENE	1	0	30.26	+32	26	25	-3	NNE	1	0	#	0	#	32	25	-		
	Sumburgh Head	30.32	31	Z	0	0	30.16	-06	42	39	+6	SSW	2	0	4	0	#	42	30	-	
	Stornoway ...	30.34	37	Z	0	0	30.05	-25	45	44	+8	SW	4	0	4	0	#	45	34	0.03	
	Wick ...	30.34	34	N	1	0	30.12	-14	39	37	+4	S	2	0	2	0	#	43	29	0.01	
	Nairn ...	30.39	35	N	1	0	30.19	-10	37	34	-2	Z	0	1	0	#	40	28	-		
	Aberdeen ...	30.36	34	NW	2	0	30.24	-02	30	29	-4	WSW	1	0	2	0	#	37	29	0.01	
	Leith ...	30.36	36	WNW	2	0	30.28	+02	31	30	-7	WNW	1	0	#	0	#	45	28	-	
	Shields ...	30.31	38	NNE	3	0	30.32	+16	34	33	-8	N	3	0	3	0	#	45	32	-	
	Spurn Head ...	30.23	40	N	5	0	30.28	+23	37	36	-3	NW	3	0	3	0	#	45	36	-	
	York ...	30.29	39	N	1	0	30.33	+18	32	32	-2	WNW	1	0	#	0	#	42	31	-	
	Loughborough ...	30.28	36	N	1	0	30.33	+22	33	33	+1	WNW	1	0	#	0	#	39	31	-	
BRITISH ISLANDS.	Ardrossan ...	30.39	35	NNE	1	0	30.26	-04	37	36	-1	ENE	1	0	2	0	#	44	32	-	
	Malin Head ...	30.39	45	NW	3	0	30.20	-13	41	41	-3	S	4	0	1	0	#	45	40	-	
	Belmullet ...	30.45	41	S	1	0	30.21	-19	47	45	+5	WSW	2	0	#	0	#	47	40	0.02	
	Donaghadee ...	30.38	36	NE	4	0	30.30	+01	36	35	-8	N	3	0	1	0	#	47	33	-	
	Liverpool (Bidston)	30.36	37	N	2	0	30.35	+14	36	35	-1	WSW	1	0	2	0	#	41	34	-	
	Holyhead ...	30.36	45	NE	5	0	30.33	+11	37	36	-7	S	1	0	1	0	#	45	33	-	
	Parsonstown ...	30.43	35	Z	0	0	30.33	-02	33	32	+5	Z	0	0	#	0	#	54	24	-	
	Valencia ...	30.45	44	Z	0	0	30.34	-05	39	38	+1	ESE	1	0	3	0	#	6.6	48	-	
	Roche's Point ...	30.46	41	E	3	0	30.38	+05	35	34	-2	NW	1	0	2	0	#	44	33	-	
	Pembroke (St. Ann's Hd.)	30.34	41	E	3	0	30.36	+18	38	37	-2	E	2	0	3	0	#	3.5	45	35	
	Seilly ...	30.27	46	NNE	5	0	30.32	+21	42	39	-3	ENE	2	0	3	0	#	4.5	47	38	
	Prawle Point ...	30.26	36	NE	4	0	30.33	+25	31	30	-3	N	3	0	3	0	#	42	30	-	
	Jersey (St. Aubin's)	30.13	43	ENE	5	0	30.24	+30	42	38	0	NNE	3	0	3	0	#	45	41	0.05	
	Hurst Castle ...	30.19	38	NNE	4	0	30.28	+27	33	31	-3	NNE	3	0	2	0	#	43	33	-	
	Dungeness ...	30.09	38	NNE	7	0	30.21	+34	39	37	+1	NE	4	0	4	0	#	45	35	0.40	
	North Foreland	30.11	40	N	7	0	30.24	+34	39	38	-1	ENE	5	0	4	0	#	43	36	0.32	
	London (Brixton) ...	30.20	39	N	4	0	30.28	+29	36	32	-1	N	2	0	#	0	#	41	34	-	
	Oxford ...	30.28	36	N	3	0	30.33	+24	34	33	+2	N	2	0	#	0	#	42	32	-	
	Cambridge ...	30.24	37	N	4	0	30.31	+27	34	33	-3	WNW	2	0	#	0	#	42	31	0.01	
	Yarmouth ...	30.14	40	NE	6	0	30.24	+30	41	37	+1	NE	4	0	4	0	#	42	35	0.10	
GERMANY & HOLLAND.	Cuxhaven ...	30.10	32	N	3	0	30.23	+33	30	30	-3	NE	2	0	#	0	#	34	28	-	
	Berlin ...	30.09	36	NW	2	0	30.21	+35	33	31	-4	NE	3	0	#	0	#	41	32	-	
	Wiesbaden ...	#	#	#	#	#	30.04	+21	37	35	-1	NE	4	0	#	0	#	39	36	0.08	
	Munich ...	29.94	32	NE	4	0	29.82	-07	31	31	-1	NE	5	0	#	0	#	36	30	0.04	
	The Helder ...	30.13	38	ENE	5	0	30.24	+36	35	32	-3	NNE	1	0	1	0	#	39	35	-	
	Brussels ...	#	#	#	#	#	30.21	+40	30	29	-6	NE	3	0	#	0	#	39	30	0.04	
	Cape Gris Nez ...	30.00	40	E	6	0	30.13	?	36	34	-6	E	4	0	4	0	#	45	32	0.08	
	Paris ...	29.95	38	NE	2	0	30.10	+28	35	31	+1	ENE	4	0	#	0	#	43	34	0.04	
	Brest ...	30.18	43	NE	4	0	30.25	+32	42	40	-6	NE	2	0	3	0	#	48	37	-	
	Lorient ...	30.13	42	NNE	6	0	30.21	+34	41	38	0	WNW	4	0	4	0	#	54	37	0.04	
FRANCE & BELGIUM.	Rocheport ...	29.97	41	NE	5	0	30.13	+36	39	37	+1	NNE	5	0	#	0	#	45	36	-	
	Belfort ...	29.86	34	E	2	0	29.84	+02	32	32	-2	E	2	0	#	0	#	45	31	-	
	Lyons ...	29.85	37	WNW	2	0	29.79	-08	37	33	+8	N	4	0	3	0	#	39	29	-	
	Nice ...	29.69	45	E	1	0	29.60	-15	38	37	-2	Z	0	3	0	#	50	37	0.35		
	Perpignan ...	29.77	45	NW	2	0	29.81	+01	42	38	-1	NW	4	0	#	0	#	52	43	0.04	
	Biarritz ...	29.82	46	SW	4	0	29.97	+22	39	37	-6	E	2	0	7	0	#	48	37	0.28	
PENIN- SULA.	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	-	
	Lisbon ...	30.09	49	NNE	5	0	30.13	+02	47	41	-1	NNE	5	0	#	0	#	55	46	-	
	Azores (P. Delgada)	30.58	58	ENE	4	0	30.59	+07	57	56	0	NE	3	0	3	0	#	61	55	-	

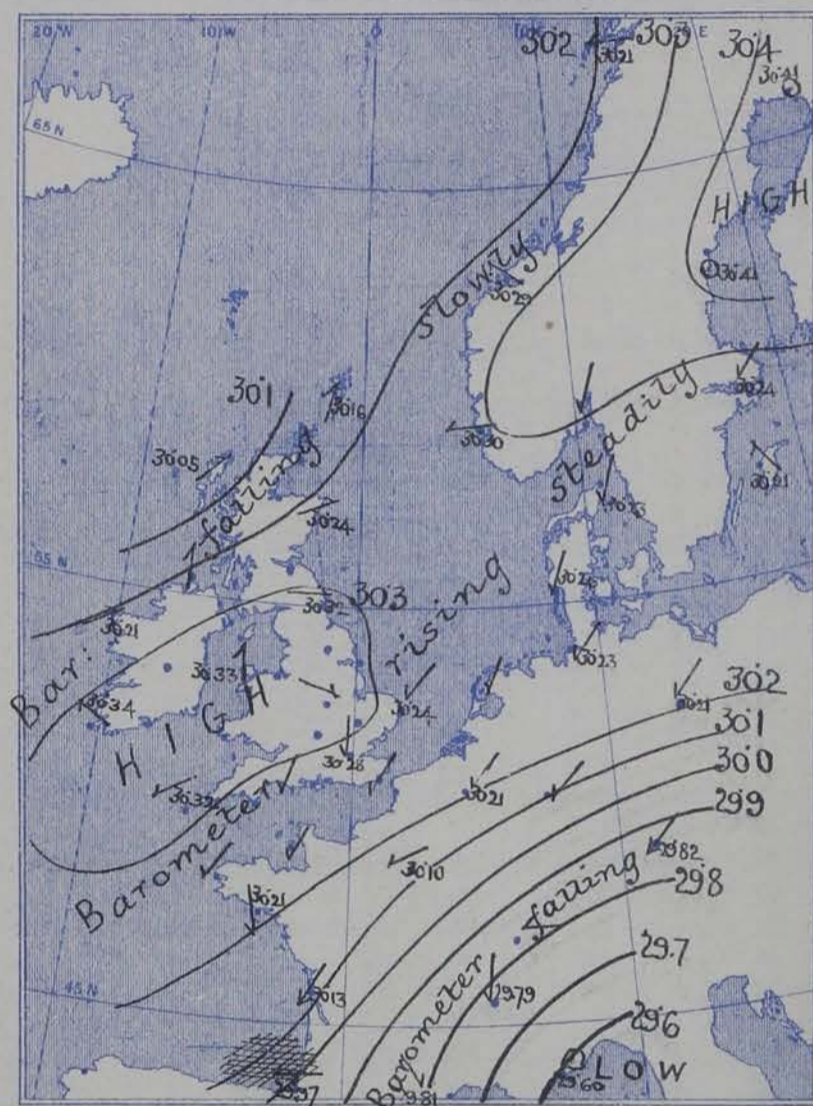
For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

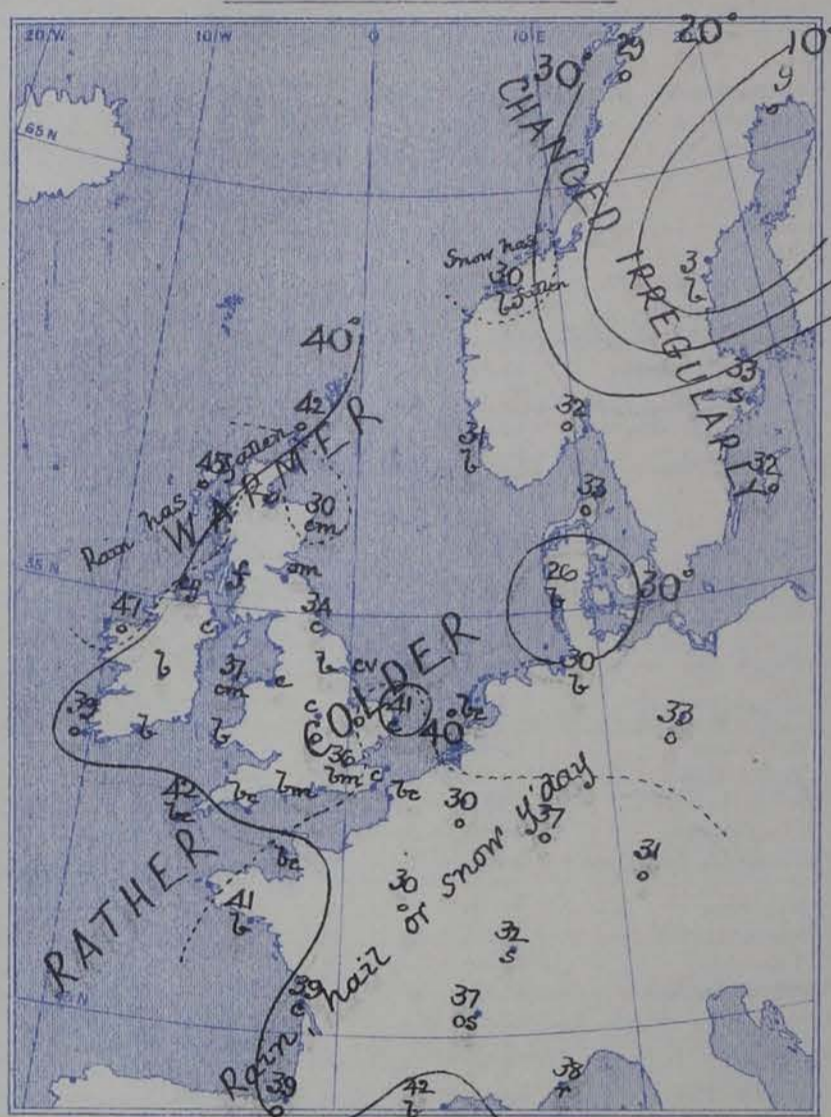
NOTE: The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.

Bright Sunshine yesterday Southport. 4.2 hrs.

FOR Friday, 3rd December, 1897.

SEA—Rough  ; High

RAINFALL— $\left\{ \begin{array}{l} \text{A dotted line separates areas where rain has fallen from those} \\ \text{without rain. The fall in past 24 hours when exceeding half} \\ \text{an inch is shown thus—0.6.} \end{array} \right.$



STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871—95.								RAINFALL. Means, 1866—95.	BRIGHT 'SUNSHINE.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·656	39·8	38·3	42·8	35·5	53	1890	19	1877	4·27	—	—
Stornoway	29·688	39·6	38·7	43·3	34·4	54	1880	15	1890	5·64	25·4	13
Wick	29·699	38·3	37·1	42·4	33·0	55	1889, 94	10	1880	3·17	—	—
Nairn	29·727	37·2	35·7	42·2	32·4	57	1888, 90, 91, 92, 94	10	1882	1·94	—	—
Aberdeen	29·758	37·0	35·3	42·0	32·8	58	1873	6	1882	3·11	39·9	20
Leith	29·797	38·7	37·2	44·1	33·7	58	1873, 88	6	1882	1·89	—	—
Shields	29·836	38·4	37·0	43·1	33·9	59	1873	10	1878, 79	2·32	—	—
Spurn Head	29·870	38·9	37·8	42·6	35·4	55*	1888	19*	1891	2·05	—	—
York	29·886	36·6	35·6	42·5	32·4	59	1888, 91	0	1879	2·21	26·5	12
Loughborough	29·922	36·4	35·4	43·0	32·3	59*	1888	7*	1890	2·24	—	—
Ardrossan	29·809	40·3	39·1	44·7	36·2	55	1880	15	1879	3·66	—	—
Malin Head	29·768	41·3	39·6	45·2	38·1	—	—	—	—	—	—	—
Belmullet	29·822	42·8	40·9	46·9	39·0	—	—	—	—	5·36	—	—
Donaghadee	29·840	40·4	39·5	45·8	36·3	56	1885, 88, 94	20	1879	2·85	—	—
Holyhead	29·876	42·8	41·2	46·5	39·2	56	1872, 88	25	1874	3·83	—	—
Liverpool	29·891	39·0	37·3	43·8	35·7	59	1891	13	1878	2·62	—	—
Parsonstown	29·891	38·3	37·0	45·1	33·5	58	1877	8	1878	3·09	45·0	20
Valencia	29·900	45·0	42·9	49·9	40·4	57	1884, 88	24	1886	5·93	43·9	19
Roche's Point	29·908	43·5	42·1	48·2	39·4	58	1873	25	1882	5·16	—	—
Pembroke	29·914	43·9	42·6	47·0	40·5	55	1876	19	1890	3·96	46·0	20
Scilly	29·950	47·4	45·5	49·8	43·6	57	1876	30	1890	4·00	—	—
Prawle Point	29·970	42·8	41·4	47·3	38·5	55*	1881, 88	25*	1885, 87, 90	3·77	—	—
Jersey	29·993	43·5	41·7	47·7	39·7	61	1876	19	1871	3·76	62·6	25
Hurst Castle	29·962	40·9	40·1	45·9	36·7	58	1876	19	1890	2·77	—	—
Dover	29·954	40·0	38·9	44·7	35·9	56	1880	12	1890	2·79	—	—
LONDON	29·956	38·0	36·8	44·3	34·0	58	1873, 88, 91	11	1878	2·11	11·8 ⁺	5 ⁺
Oxford	29·956	37·1	36·0	43·2	33·6	58	1888	6	1878	2·10	41·8	18
Cambridge	29·941	36·4	35·6	43·2	31·6	59	1878, 88	0	1879	1·82	41·2	18
Yarmouth	29·915	38·1	37·1	42·2	33·8	56	1873	15	1879	2·53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.4 in. and upwards, over the Gulf of Bothnia; 30.3 in. and upwards over the greater part of Scandinavia, and also over England and the south and east of Ireland.</p> <p>Lowest, 29.6 in. and less, in a depression with its centre over the Gulf of Genoa; 30.1 in. and less, in another system off the northwest of Ireland.</p> <p>Gradient moderate over the north of Scotland, and also over France and South Germany, but slight elsewhere.</p> <p>Barometer falling in the west and north of our Islands, and also over South Germany, and the east and south of France; rising in most other localities.</p>
TEMPERATURE	<p>Highest (1) 47° at Bilmullet, 45° at Stromsøy, and 42° at Melin Head; (2) 42° at Scilly, Jersey, Brest, and Cherbourg.</p> <p>Lowest, (1) 3° at Harisand, 9° at Haparanda, and 26° at Tanö; (2) 30° at Albedaen and 31° at Hvalb; (3) 30° at Brussels and 31° at Munich.</p> <p>Frost occurred last night in many parts of the United Kingdom, the lowest readings reported in the snow being 17° at Harrogate, and 28° at Nain and Deth.</p>
WIND	<p>NE or N over the southern part of England, and also over France, Germany, Denmark, and the south of Scandinavia; light to fresh in force generally.</p> <p>Light to moderate from the S or SE on our extreme north and northwest coasts; E in the west of Norway, calm over the northern part of Sweden.</p>
WEATHER	<p>Fine over the greater part of England and the south of Ireland, as well as in Holland, Denmark and the west of Norway.</p> <p>Cloudy or dull elsewhere, with snow at Stockholm and also at Belfast and Lyons, and rain at Nice.</p> <p>Considerable quantities of sleet and hail fell yesterday on our extreme southeast coasts, and smaller amounts in the neighbouring part of the Continent. Light showers have fallen in the extreme north and northwest of our Islands. A lunar halo was seen last night at Stromsøy.</p>
SEA	<p>Moderate to smooth generally, but high at Biarritz.</p>


PROBABLE CHANGES IN SYSTEM NOW PREVALENT


A depression is approaching our northern coasts from the westward, and the wind there is likely to increase somewhat from S. and SW. with rain or sleet. Over the southern part of the Kingdom no important change is anticipated at present.

FORECASTS

For the 24 hours ending at NOON on 4TH DEC : 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ^W and SW ^W winds, increasing in force; unsettled, some rain or sleet.	6 SCOTLAND WEST	Same as N ^o 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	S ^W and SW ^W winds, moderate; fair generally.
2 ENGLAND N.E.	NW ^W to W ^W winds, light or moderate; fair generally.	8 ENGLAND S.W.	N ^W to NE ^W winds, light; fair generally.
3 ENGLAND EAST	N ^W to NW ^W winds, light; fair generally, but misty or foggy in places.	9 IRELAND NORTH	SW ^W winds, increasing in force; cloudy, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Variable breezes, finally S ^W ; fair at first, showery later.
5 ENGLAND 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes	30.25	29	27	2	0	b	1	Valencia	30.44	48	43	11	1	b	4
Sumburgh Head	30.29	37	36	11	1	b	4	Scilly	30.22	46	42	11	6	c	5
Stornoway	30.36	40	38	11	1	c	2	Jersey	30.07	45	40	11	7	c	5
Aberdeen	30.33	37	35	11	3	bc	3	Hurst Castle	30.10	42	38	11	5	b	5
Shields	30.26	44	39	11	3	c	4	Dungeness	29.99	37	37	11	6	cyp	5
Ardrossan	30.34	44	42	11	1	b	1	North Foreland	30.03	43	41	11	7	c	5
Malin Head	30.38	45	43	11	2	bc	2	London (Westminster)	30.10	42	37	11	7	cyp	#
Belmullet	30.45	46	44	11	1	c	*	Yarmouth	30.07	41	37	11	6	cyp	5
Holyhead	30.32	45	40	11	5	c	4	Rochefort	29.91	42	41	11	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fair or fine over northwestern Europe generally, but showery on the Kentish coasts, as well as at Jersey and Malin Head. Dull in most of the eastern, central and southern countries, with rain at Lisbon and snow at Helsingfors, Riga, Christiansund, Copenhagen, and Vienna. Considerable quantities of sleet or hail falling later on the Kentish coasts, and smaller amounts in the neighbouring parts of the Continent; rain falling in the south of France.

Temperature fallen in France, Germany, and the south of our Islands, risen in most other localities. Morning readings highest 60° at Ovan, 59° at Cagliari and Algiers, and 58° at Nemours; above 50° over the central and southern parts of the Mediterranean generally. Lowest 0° zero at Itzehouze, +1° at Kueps, 3° at Uleaborg and 4° at Hornsund; below the freezing point over Northern Europe generally, and also over Central Ireland, and touching 32° over Central England. Daily maxima below 45° in nearly all parts of Great Britain, and below 40° at some of the northern and central stations, thermometer exceeding 50° in the west and south of France and reaching 55° at Lisbon.

Wind N³ or NE³ over northwestern Europe generally, and strong in force on our own eastern and southern coasts, with a gale at the North Foreland; light from the NW⁴ in the east of Scotland. S³ or SW³ over Germany and the Baltic, calm in Austria, light from the E² in the south of Russia, and also over Central France; NW³ in Spain, variable in Italy. Subsequently falling to a calm on our own extreme western and northern coasts.

Barometer highest 30.4 in. and upwards in an anticyclone lying off the west of Ireland; 30.2 in. and upwards, in another system over Russia. Lowest, 29.8 in. and less, in three depressions, — one lying over the Baltic and the south of Sweden, another over the Netherlands, and the third over the southwest of France the northeast of Spain and the neighbouring parts of the Mediterranean. Anticyclone in west subsequently spreading eastwards, and barometer rising over Western Europe generally.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 4th December, 1897.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.	Weather.	Force (0 to 12.)	BAROMETER.		TEMPERATURE.			WIND.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	TEMP.		
		At 39° and M.S.L.	Dry Bulb.	Dirac.			At 39° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.						Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.44	6	Z	0	0	30.43	+0.02	-2	-3	-11	SE	2	c	#	0	#	10	-2	-
	Hernösand ...	30.41	14	Z	0	0	30.35	-0.06	20	19	+17	Z	0	0	#	0	#	20	-2	-
	Stockholm ...	30.28	32	Z	0	f	30.31	+0.07	30	29	-3	Z	0	0	#	f	#	36	30	0.20
	Wisby ...	30.29	33	S	4	0	30.26	+0.05	34	34	+2	SSE	4	0	#	0	#	34	28	-
	Karlstad ...	30.28	27	HW	2	S	30.28	+0.04	26	?	-2	N	2	b	#	S	#	#	#	0.08
	Bodo ...	30.07	30	E	4	b	30.01	-0.20	28	25	-1	E	5	0	2	b	#	32	27	-
	Christiansund ...	30.09	32	SE	1	bc	30.09	-0.20	36	32	+6	S	3	0	3	bc	#	36	30	-
	Skudesnaes ...	30.23	36	SE	6	c	30.19	-1.1	36	33	+5	SE	6	bc	4	bc	#	36	30	#
	Færder (Christiania Fjord)	30.30	?	NNE	4	c	30.29	-0.0	30	28	-2	NE	2	0	1	c	#	32	28	-
	Skagen (The Scaw)	30.24	33	NE	1	c	30.25	+0.02	34	33	+1	E	2	0	0	c	#	34	32	-
BRITISH ISLANDS.	Fanö ...	30.23	32	NE	2	c	30.23	-0.03	28	28	+2	Z	0	b	#	c	#	34	25	-
	Sumburgh Head	29.91	43	SSW	3	0	29.92	-0.24	39	39	-3	NE	4	0	5	0	#	44	37	0.39
	Stornoway ...	29.80	46	SSW	8	r	30.00	-0.05	37	36	-8	HW	3	c	3	0, r	0.0	47	34	0.55
	Wick ...	29.86	43	S	5	0	29.97	-1.5	43	40	+4	H	5	c	3	0	#	43	39	0.08
	Nairn ...	29.92	41	Z	0	r	30.02	-1.7	39	38	+2	Z	0	c	1	r	#	43	34	0.34
	Aberdeen ...	30.02	36	S	3	c	30.01	-0.23	37	36	+7	HW	3	c	3	cm, r	0.0	38	30	0.31
	Leith ...	30.06	39	HW	1	0	30.00	-0.28	41	40	+10	HW	2	om	#	0	#	43	30	0.29
	Shields ...	30.17	37	WSW	2	cm	30.00	-0.32	37	37	+3	SSW	3	r	2	m, cm	#	40	33	0.11
	Spurn Head ...	30.21	39	SSW	2	c	30.11	-1.7	36	35	-1	SSW	4	r	3	p, c	#	44	35	0.03
	York ...	30.22	36	SSW	1	c	30.07	-0.26	34	33	+2	S	1	r	#	cm	0.6	38	30	-
GERMANY & HOLLAND.	Loughborough ...	30.25	29	SE	1	b	30.15	-1.8	33	33	0	SE	2	og, ap	#	bc, b, op	#	40	27	0.04
	Ardrossan ...	30.04	45	S	5	r	29.98	-0.28	42	42	+5	NE	1	of	1	0, r	#	45	36	0.16
	Malin Head ...	29.87	43	SW	7	r	29.98	-0.22	45	42	+4	N	3	bc	2	r	#	48	39	0.28
	Belmullet ...	29.98	50	SW	3	r	30.08	-1.3	39	38	-8	E	1	b	#	r	#	51	38	0.83
	Donaghadee ...	30.08	41	S	4	0	29.99	-0.31	38	38	+2	W	4	b	2	0	#	44	34	0.42
	Liverpool (Bidston)	30.21	36	SSW	1	c	30.03	-0.32	38	37	+2	SSE	2	0	2	c	#	41	36	0.05
	Holyhead ...	30.18	45	SW	3	0	30.00	-0.33	48	48	+11	SW	4	gm, r	3	cm, 0	#	48	36	0.41
	Parsonstown ...	30.12	43	W	2	0	29.97	-0.36	45	44	+12	SE	1	0	#	c, 0, r	1.6	47	31	0.38
	Valencia ...	30.14	49	S	2	og, m	29.95	-0.39	48	48	+9	Z	0	f	2	c, 0, v, gm	1.5	50	38	0.20
	Roche's Point ...	30.19	47	SSE	3	0	29.97	-0.41	51	51	+16	SSW	4	r, f	4	0	#	51	35	0.15
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.22	46	WSW	3	c	30.05	-0.31	48	47	+10	SW	6	og, p	4	c	1.3	48	38	0.10
	Scilly ...	30.25	42	NNE	1	c	30.09	-0.23	49	46	+7	S	4	c	2	bc, c	7.2	49	38	-
	Prawle Point ...	30.27	33	N	2	b	30.17	-0.16	41	39	+10	SSW	2	bc	2	c, b, c	#	43	31	-
	Jersey (St. Aubin's)	30.22	44	NE	3	bm	30.18	-0.06	42	40	0	SE	2	c, gm	2	c, bc, g	#	45	37	-
	Hurst Castle ...	30.24	32	N	1	bm	30.18	-0.10	36	35	+3	HW	1	cm	1	bc, bm	#	42	27	-
	Dungeness ...	30.20	34	NE	4	b	30.18	-0.03	36	34	-3	ESE	1	b	1	c, b	#	41	28	0.05
	North Foreland	30.22	41	NE	3	c	30.20	-0.04	35	34	-4	S	2	r	2	bc, c, rs	#	41	33	0.21
	London (Brixton) ...	30.24	37	NE	1	bf	30.20	-0.08	27	26	-9	Z	0	f	#	bm, f	0.2	41	26	-
	Oxford ...	30.25	29	HW	1	b	30.20	-0.13	30	29	-4	S	1	bc, f	#	b, bf	#	40	23	-
	Cambridge ...	30.25	32	HW	2	bc	30.19	-0.12	29	29	-5	SW	1	om	#	c, bc	1.0	41	25	-
GERMANY & HOLLAND.	Yarmouth ...	30.20	39	NNE	1	c	30.17	-0.07	32	31	-9	W	1	bc, f	3	bc, c	#	43	30	-
	Cuxhaven ...	30.21	32	NE	3	b	30.17	-0.06	33	33	+3	NE	2	c	#	b	#	34	27	-
	Berlin ...	30.12	32	NE	4	S	30.08	-0.13	33	32	0	E	3	0	#	S	#	36	32	0.08
	Wiesbaden ...	#	#	#	#	#	30.03	-0.01	34	33	-3	H	2	0	#	#	#	44	34	-
	Munich ...	29.80	30	SW	2	0	29.95	+0.13	28	28	-3	HW	4	0	#	0	#	34	28	-
	The Helder ...	30.21	34	E	1	b	30.19	-0.05	33	31	-2	NE	1	b	1	b	#	37	30	-
	Brussels ...	#	#	#	#	#	30.18	-0.03	26	25	-4	NE	3	b	#	0	#	34	26	-
	Cape Gris Nez ...	30.12	35	E	2	bc	30.12	-0.01	32	30	-4	E	2	c	1	bc	#	41	26	-
	Paris ...	30.10	31	H	3	b	30.15	+0.05	27	26	-8	NNE	3	0	#	b	#	35	27	-
	Brest ...	30.23	39	NNE	2	bc	30.19	-0.06	45	41	+3	S	1	c	2	bc	#	45	41	-
FRANCE & BELGIUM.	Lorient ...	30.21	42	H	4	c	30.22	+0.01	39	38	-2	S	1	c	1	c	#	?	36	-
	Rochefort ...	30.12	38	NE	5	c	30.19	+0.06	31	26	-8	NNE	4	b	#	0, c	#	41	28	-
	Belfort ...	29.89	32	ENE	3	m	30.03	+0.19	30	30	-2	E	1	m	#	m	#	34	30	0.08
	Lyons ...	29.91	32	H	2	S	30.04	+0.25	34	32	-3	HW	1	0	#	S	#	37	31	0.04
	Nice ...	29.75	40	E	1	r	29.77	+0.17	41	35	+3	NE	2	b	2	r	#	46	37	0.83
	Perpignan ...	29.91	42	HW	4	0	29.98	+0.17	38	34	-4	HW	4	0	#	0	#	45	37	-
	Biarritz ...	30.01	41	NE	4	b	30.08	+0.11	36	33	-3	ESE	2	0	3	b	#	45	34	-
	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Lisbon ...	30.17	48	NNE	5	b	30.26	+0.13	44	38	-3	H	4	b	#	b	#	54	43	-
	Azores (P. Delgada)	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 2.7 hrs;

WEATHER CHARTS

FOR *Saturday 4th December, 1897.*

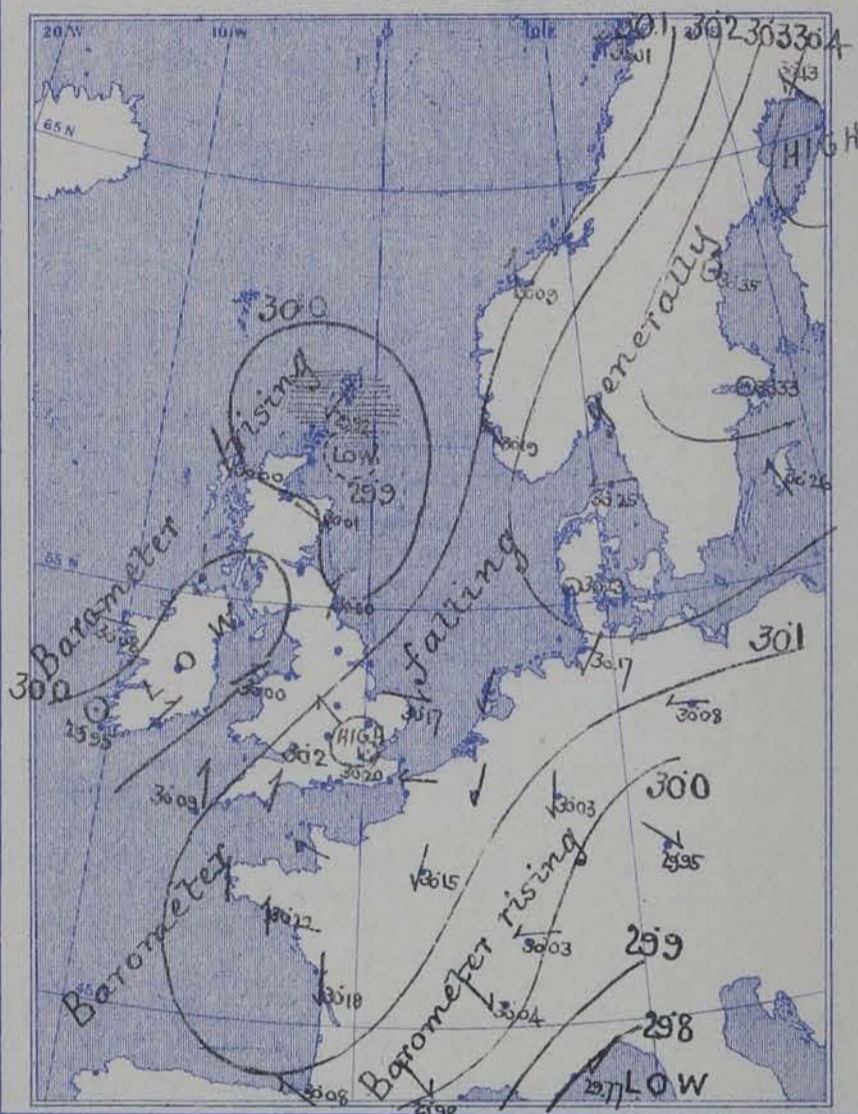
BAROMETER, WIND AND SEA.

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 ≡≡≡

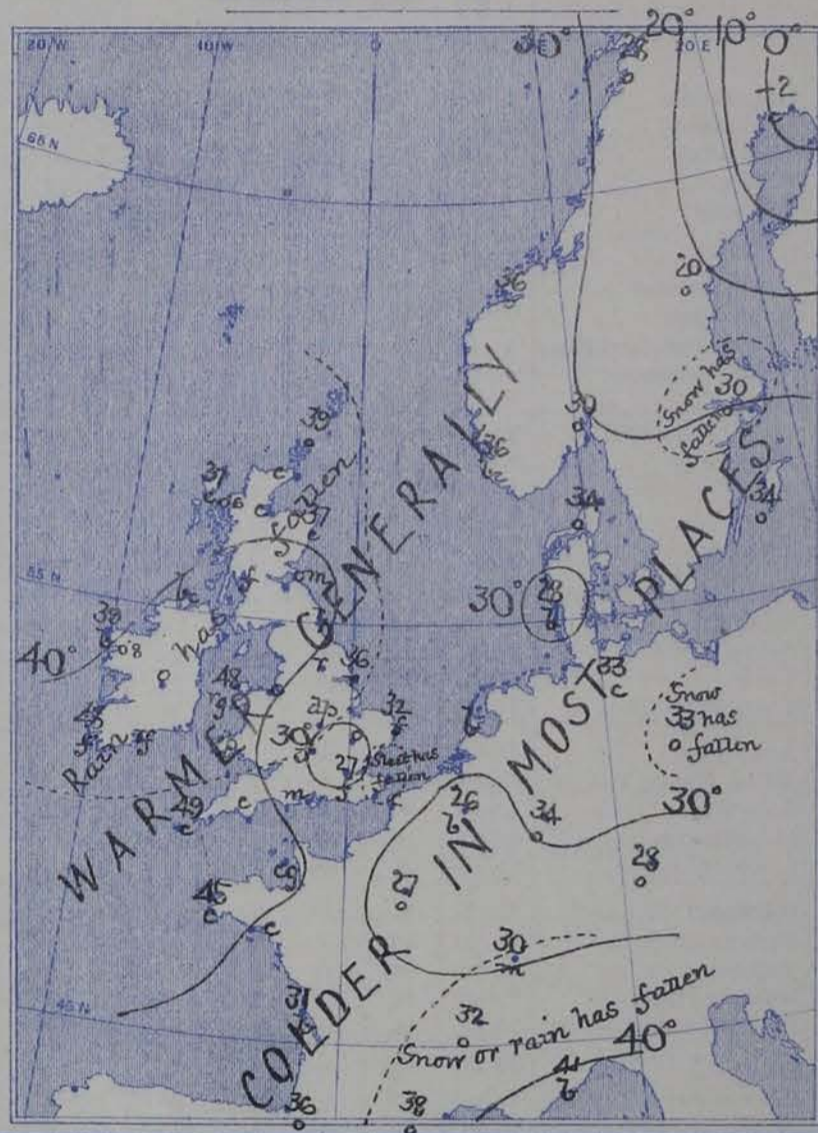


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881—95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 304 ins: in Lapland; 301 ins: and upwards, in a band extending from Northern Europe across the Eastern and Southern part of the North Sea, the Southern part of England and the greater part of France.

Lowest, 298 ins: and less, over the Gulf of Genoa; 300 ins: and less in two shallow and complex depressions lying over the west and north of our Islands, and the Northern part of the North Sea.

Gradient slight. Barometer falling in most parts of Northwestern Europe, but rising again in the north and extreme west of our Islands.

TEMPERATURE

Highest, 51° at Rock Point, 49° at Scilly, 48° at Holyhead, Valencia (Ireland) and Pembroke, and 45° at Burton-on-Avon and Perth.
 Lowest (1) - 2° F. at Haparanda, +20° at Herösand, and 26° at Kalixet (2) 26° at Brussels and 27° at Paris (3) 27° in London and 29° at Cambridge.
 Sharp frosts occurred last night in many parts of Great Britain, the lowest readings reported being: - In the screen 23° at Oxford, 25° at Cambridge, and 26° in London; (2) On the grass 19° at Loughborough and Oxford, and 20° in London.

WIND

light to moderate from the S^{wd} over the greater part of England and Wales, but variable in the southeast, N or NW in Scotland and the north of Ireland. E or SE at most of the Scandinavian stations, NE over the Netherlands and the northeast of France. NW in the south of France. A moderate to fresh gale from the S^{wd} was experienced last night on our extreme northwest coasts.

WEATHER

Foggy over the southeast of England, and also in the south of Ireland; rainy over the north of England, as well as at the North Foreland and Roker Point, cloudy in Scotland, fine in the north of Ireland. Cloudy or dull at most of the Continental stations, but fine and bright over the Netherlands. Since yesterday morning rain has fallen in the west and north of our Islands generally, and also on the Danish coast; the largest amount being 0.8 inch at Bilmullet, and 0.6 inch at Thorsøvej.

SEA

Moderate to smooth generally, but rather rough at Lumbergh Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are very irregular. So far as can be seen the shallow depressions in the west and north are likely to move slowly southwards, and the rainy weather now prevailing in the north of England will probably spread southwards.

FORECASTS

For the 24 hours ending at NOON on 5TH DEC^R 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
†T ⁰	{ SCOTLAND NORTH	{ N ² winds, freshening; changeable, some snow showers.	†T ⁶	{ SCOTLAND WEST	{ Same as N ⁰ 0 and 1.
†T ¹	{ SCOTLAND EAST		†T ⁷	{ ENGLAND N.W.	
†T ²	{ ENGLAND N.E.	{ S ² to Variable breezes; unsettled, some cold rain or sleet.	8	{ ENGLAND S.W.	{ S ² winds, shifting later to the N ² ; some rain at first, then fair and colder.
3	{ ENGLAND EAST		†T ⁹	{ IRELAND NORTH		{ Same as N^{0} 0 and 1.
4	{ MIDLAND COUNTIES	{ S ² winds, light or moderate; unsettled, some rain. Becoming temporarily milder.	†T ¹⁰	{ IRELAND SOUTH	{ Same as N ⁰ 8. At 4 pm yesterday to districts 0, 6, and parts of 1 and 9 and at 7.35 pm to districts
5	{ ENGLAND SOUTH		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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.29	36	32	ESE	2	b	2	Valencia ...	30.21	49	47	S	3	ov	4
Sumburgh Head	30.00	43	40	SSW	3	o	5	Scilly ...	30.29	45	40	ESE	2	bc	2
Stornoway ...	29.89	47	46	SW	6	o	6	Jersey ...	30.22	45	40	ESE	5	c	3
Aberdeen ...	30.10	37	34	SW	1	bcm	2	Hurst Castle	30.25	42	37	NE	2	bc	1
Shields ...	30.22	40	38	WSW	2	m	3	Dungeness ...	30.19	40	36	ESE	4	c	4
Ardrossan ...	30.12	44	43	S	5	o	4	North Foreland	30.24	40	38	NE	3	bc	3
Malin Head ...	30.04	42	42	SSW	6	r	2	London (Westminster)	30.24	42	37	NNE	3	bc	#
Belmullet ...	30.12	48	47	SW	3	r	#	Yarmouth ...	30.01	42	38	N	2	bcv	3
Holyhead ...	30.25	44	42	S	3	cm	2	Rocheport ...	30.10	38	36	NE	4	o	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine over the greater part of England and the south of Ireland, as well as in Holland, Denmark and the west of Norway. Cloudy or dull in most other parts of Europe, with rain at Nice, and snow at Berfort and Lyons, as well as at Hango and Stockholm. Rain falling later in the west and north of our Islands, heavily at Belmullet. Snow occurring in several parts of Sweden, Germany and Central France, and heavy rain at Nice.

Temperature risen in the north of Scotland and the south of Scandinavia, as well as in Italy, fallen in most other localities. Morning readings highest 63° at Malta, 60° at Palermo, and 56° at Algiers; above 50° at several of the Mediterranean and Adriatic stations. Lowest (1) -3° F. at Uleaborg, +1° at Kuopio, 3° at Helsingfors, and 9° at Haparanda; below the freezing point in most parts of northern and Central Europe as well as in the east of Scotland and at Brackla Point. Daily maxima considerably below 40° in most parts of Great Britain and below 50° at all stations excepting those in the west and south of Ireland. Thermometer only touching 46° at Perpignan and Biarritz and 46° at Nice. Sharp frost occurring over Central England at night, sheltered thermometer at Oxford falling to 23°.

Wind light to fresh from NE or N. over the southern part of England and also over the Netherlands, Germany, France, and the Spanish Peninsula, E or SE over Italy and Austria. S or SW in the extreme north and northwest of our Islands, SE or E in the west of Norway; calm over the northern part of Sweden and Russia. S or SW winds spreading later over the western and northern parts of our Islands generally, and increasing to a gale on our extreme northwest coasts.

Barometer highest 30.6 ins. and upwards in the extreme north of Russia; 30.2 ins. and upwards in an anticyclone covering all the more northern parts of Europe excepting the extreme north and northwest of our Islands. Lowest 29.6 ins. and less, in a depression having its centre off the south of France; 30.1 ins. and less, in another disturbance off the northwest of Scotland. Latter disturbance spreading eastwards later, and barometer falling briefly on our western and northern coasts.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 5th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.	TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
		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.)			Max.	Min.	Rainfall.		
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.45	18	Z	0	0	30.53	+ .10	19	18	+ .21	Z	0	0	#	0	#	19	-6	-	
	Hernösand ...	30.46	25	Z	0	0	30.54	+ .19	26	25	+ .6	Z	0	0	#	0	#	26	12	-	
	Stockholm ...	30.36	27	Z	0	0	30.54	+ .23	26	25	+ .4	N	2	f	#	0	#	32	26	-	
	Wisby ...	30.35	35	NNW	4	0	30.48	+ .22	35	34	+ .1	E	4	0	#	0	#	36	28	0.04	
	Karlstad ...	30.44	25	N	2	0	30.55	+ .27	21	20	- .5	N	2	0	#	0	#	#	#	-	
	Bodö ...	30.29	30	E	5	S	30.39	+ .38	30	26	+ .2	E	4	0	#	0	#	30	23	-	
	Christiansund ...	30.31	36	SW	2	0	30.36	+ .27	35	33	- .1	ESE	1	0	#	0	#	36	32	0.04	
	Skudesnaes ...	30.33	38	SSE	6	0	30.41	+ .22	36	33	0	SE	4	0	#	0	#	38	30	#	
	Færder (Christiania Fjord)	30.45	28	NE	2	0	30.54	+ .25	24	23	- .6	ENE	2	0	#	0	#	30	23	-	
	Skagen (The Scaw)	30.41	32	E	1	0	30.47	+ .22	31	30	- .3	E	3	0	#	0	#	36	30	-	
BRITISH ISLANDS.	Fanö ...	30.34	27	ENE	4	0	30.33	+ .10	28	27	0	ENE	4	0	#	0	#	32	25	-	
	Sumburgh Head	30.06	41	NNE	2	0	30.01	+ .09	44	42	+ .5	SE	5	r	#	0	#	46	39	0.02	
	Stornoway ...	30.00	40	SSE	3	0	29.99	- .21	45	43	+ .8	SSE	8	0	#	0.6c	#	1.6	45	37	0.02
	Wick ...	30.07	42	N	3	0	29.94	- .03	45	43	+ .2	S	6	ow	#	0	#	45	35	-	
	Nairn ...	30.10	35	Z	0	0	29.98	- .04	37	35	- .2	W	1	0	#	0	#	42	25	-	
	Aberdeen ...	30.09	39	NW	2	0	30.04	+ .03	44	42	+ .7	S	7	oggy	#	0.09r	#	3.4	44	35	0.01
	Leith ...	30.06	42	E	3	0	30.01	+ .01	41	40	0	ESE	1	r	#	0	#	44	37	-	
	Shields ...	30.08	39	SW	1	f	30.13	+ .13	37	37	0	S	3	r	#	0	#	40	35	0.16	
	Spurn Head ...	30.12	35	SSE	5	0	30.19	+ .08	38	37	+ .2	SSE	4	0	#	0	#	39	35	0.02	
	York ...	30.08	36	S	1	m	30.17	+ .10	36	36	+ .2	SSE	2	r	#	0	#	37	33	0.18	
GERMANY & HOLLAND.	Loughborough ...	30.14	34	SE	1	r	30.18	+ .03	36	35	+ .3	SE	2	ogm	#	0.09r	#	3.6	33	0.62	
	Ardrossan ...	30.04	42	NE	2	of	29.96	- .02	45	45	+ .3	ESE	4	omp	#	0	#	45	37	0.01	
	Malin Head ...	29.96	43	SSE	3	cm	29.83	- .15	44	44	- .1	S	5	0	#	0	#	48	39	-	
	Belmullet ...	29.94	43	ESE	1	0	29.84	- .24	49	48	+ .10	SSW	2	0	#	0	#	49	40	0.02	
	Donaghadee ...	30.02	47	SE	3	0	29.94	- .05	46	46	+ .8	SSW	4	0	#	0	#	50	36	0.01	
	Liverpool (Bidston)	30.05	43	SSE	1	r	30.09	+ .06	39	36	+ .1	SE	3	0	#	0	#	43	37	0.22	
	Holyhead ...	30.01	47	Z	0	dmg	30.01	+ .01	48	48	0	S	5	dm	#	0	#	49	46	0.66	
	Parsonstown ...	29.94	47	Z	0	r	29.93	- .04	45	44	0	SE	1	0	#	0	#	48	41	0.02	
	Valencia ...	29.96	44	E	1	0	29.94	- .01	50	49	+ .2	S	2	om	#	0	#	50	41	0.02	
	Roche's Point ...	29.98	50	SW	3	0	29.97	- .00	52	52	+ .1	SW	3	f	#	0	#	52	46	0.01	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.02	49	SW	6	r	30.03	- .02	51	50	+ .3	SSW	6	og	#	0	#	51	47	0.08	
	Scilly ...	30.03	50	S	4	m	30.03	- .06	52	51	+ .3	S	2	omp	#	0	#	52	45	0.07	
	Prawle Point ...	30.13	45	SSW	2	0	30.16	- .01	47	44	+ .6	SE	4	0	#	0	#	48	40	-	
	Jersey (St. Aubin's)	30.08	45	SE	3	cmg	30.21	+ .03	42	39	0	ESE	3	0	#	0	#	48	39	-	
	Hurst Castle ...	30.17	42	SE	2	0	30.20	+ .02	45	42	+ .9	SSW	2	0	#	0	#	45	35	-	
	Dungeness ...	30.19	39	E	1	0	30.21	+ .03	32	31	- .4	NNE	2	0	#	0	#	44	28	-	
	North Foreland	30.23	37	Z	0	0	30.21	+ .01	38	36	+ .3	N	2	0	#	0	#	39	35	0.02	
	London (Brixton) ...	30.19	36	SSE	1	0	30.24	+ .04	38	35	+ .11	SSE	2	og	#	0	#	38	27	0.01	
	Oxford ...	30.17	36	SSE	3	0	30.21	+ .01	36	35	+ .6	SSE	3	ofa	#	0	#	37	29	0.04	
	Cambridge ...	30.20	34	SSW	2	0	30.24	+ .05	35	35	+ .6	SSE	1	dm	#	0	#	36	28	0.01	
PENIN- SULA.	Yarmouth ...	30.17	38	SSE	2	0	30.22	+ .05	33	32	+ .1	N	1	bf	#	0	#	38	30	-	
	Cuxhaven ...	30.26	34	NE	3	0	30.23	+ .06	35	35	+ .2	NE	3	r	#	0	#	36	32	-	
	Berlin ...	30.17	32	E	3	0	30.19	+ .11	33	31	0	E	3	0	#	0	#	34	29	0.04	
	Wiesbaden ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Munich ...	30.07	27	E	3	S	29.97	+ .02	27	27	- .1	W	1	f	#	0	#	30	23	0.24	
	The Helder ...	30.24	36	E	2	0	30.23	+ .04	36	34	+ .3	NE	2	0	#	0	#	37	33	-	
	Brussels ...	#	#	#	#	#	30.19	+ .01	32	31	+ .6	NNE	4	0	#	0	#	32	26	-	
	Cape Gris Nez ...	30.15	34	ESE	1	0	30.16	+ .04	36	34	+ .4	SE	2	0	#	0	#	37	28	-	
	Paris ...	30.18	33	N	2	0	30.18	+ .03	32	31	+ .5	N	3	0	#	0	#	34	27	-	
	Brest ...	30.13	49	SW	1	0	30.12	- .07	46	44	+ .1	SE	2	0	#	0	#	48	41	-	
AZORES (P. Delgada)	Lorient ...	30.18	44	SW	2	0	30.20	- .02	42	41	+ .3	ESE	2	0	#	0	#	48	36	-	
	Rochefort ...	#	39	NNE	4	0	30.18	- .01	30	29	- .1	NE	2	0	#	0	#	43	28	-	
	Belfort ...	30.04	30	E	2	m	30.02	- .01	29	29	- .1	ENE	1	m	#	0	#	35	28	-	
	Lyons ...	30.05	31	N	3	0	30.00	- .04	30	29	- .4	NNW	2	0	#	0	#	32	30	0.04	
	Nice ...	29.59	44	NE	1	0	29.48	- .29	52	43	+ .11	E	1	0	#	0	#	48	39	0.20	
	Perpignan ...	29.94	38	NW	6	0	29.88	- .10	39	33	+ .1	NW	6	0	#	0	#	42	36	-	
	Biarritz ...	30.11	43	N	4	0	30.14	+ .06	36	31	0	SE	2	0	#	0	#	43	32	-	
	Corunna ...	30.25	52	N	3	0	30.21	- .08	51	50	+ .8	S	2	0	#	0	#	54	41	0.08	
	Lisbon ...	30.21	51	N	3	0	30.23	- .03	57	55	+ .13	N	4	0	#	0	#	57	44	0.12	
	Azores (P. Delgada)	30.46	57	SE	1	0	30.43	- .09	58	52	+ .3	SSW	1	0	#	0	#	64	55	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 0.0 hrs;

WEATHER CHARTS

FOR SUNDAY, 5TH DECEMBER, 1897.

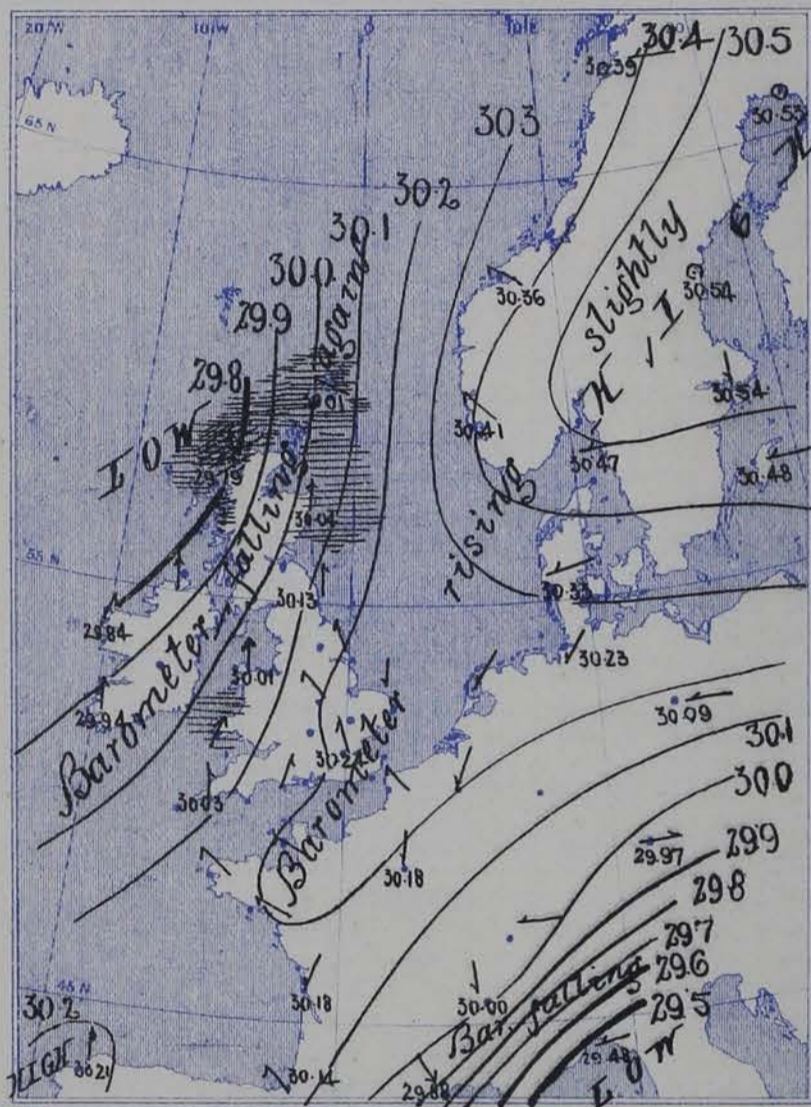
BAROMETER, WIND AND SEA.

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 ≡≡≡

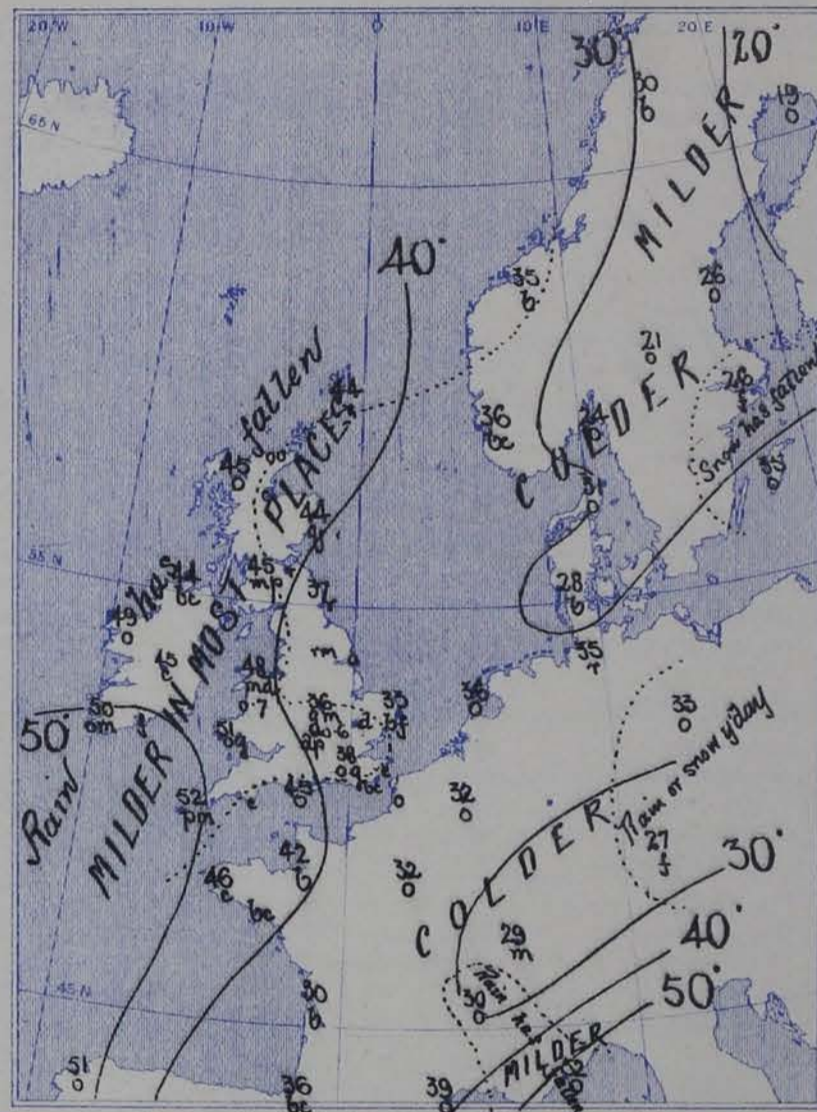


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Seilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.84	54
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30.5 in: and more over Sweden and exceeding 30.3 in: over the whole of Scandinavia; (2) 30.43 in: at St. Delgada (Azores), and 30.2 in: in Portugal.
 Lowest, Below 29.5 in: over the Riviera, and below 29.8 in: off the extreme northwestern parts of Ireland and Scotland.
 A well-marked "col" lay over England, over the north of France and the Bay of Biscay, involving the high pressure area over the northern part of our area.
 Gradients slight within the "col" and high pressure systems, very steep over the southeast of France, rather steep over Scotland and the north of Ireland.
 Barometer falling both at our western and northern stations and in the southeast of France rising over the Channel and neighbouring parts both of England and France.

TEMPERATURE

Highest, 57° at Lisbon, 52° at Nice and also at Gilly, and Rock Point, 45° at Bismarck.
 Lowest (1) 19° at Haparanda, 21° at Kurlstad, 24° at Faerø; (2) 27° at Munich, 32° at Paris, Brussels, and Dungeness, 33° at Berlin and Yarmouth.
 It is changing little but rather fitfully over the Kingdom generally.

WIND

(1) S (SSE to SSW) over the British Isles as a whole, and blowing a gale at some of the Scotch stations, E over Norway; (2) E over North Germany and the Baltic, N to E over the greater part of France; variable airs and calms over the southeast of England.

WEATHER

(1) Very dull over our Islands generally, with slight misty showers over the southeast of England, and decided rain over many of the northern and northern counties of Great Britain; (2) very fine on the Norwegian coast, but dull over Germany and France, with fog in some places and rain at Copenhagen.
 Considerable falls of rain have occurred at Holyhead and ^{Loughborough} ~~London~~, smaller quantities over our western and northern districts generally, as well as over the south of France. Small and cold rain in small quantities at our southern stations, none at Munich.
 Bright Sunshines recorded yesterday 3.4 hrs at Aberdeen, 1.6 hr at Stornoway, and 0.8 hr at Valencia, none at our other stations.

SEA

Very high in the Merch, rough at Aberdeen, moderate on our southern coast, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 6TH DEC: 1897.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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



NONE ISSUED.

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

NONE ISSUED.

WARNINGS

The SOUTH CONE is still flying in districts 0. 1. 6. 7. 9. 10. and part of 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.27	38	35	SSE	6	o	4	Valencia ...	29.94	50	50	Z	o	om	4
Sumburgh Head ...	30.01	41	39	NNE	2	o	2	Scilly ...	30.05	49	49	S	5	omp	3
Stornoway ...	30.04	43	42	SSE	3	a	3	Jersey ...	30.17	46	42	SE	3	c	3
Aberdeen ...	30.06	41	39	WN	2	c	3	Hurst Castle ...	30.16	43	39	SSE	2	c	1
Shields ...	30.04	39	39	WSW	2	m	2	Dungeness ...	30.18	42	39	Z	o	b	o
Ardrossan ...	30.02	43	43	NE	3	af	3	North Foreland ...	30.23	38	37	W	1	c	1
Malin Head ...	29.98	45	46	SE	3	bc	1	London (Westminster) ...	30.19	39	36	SSE	1	fg	#
Belmullet ...	29.98	45	43	ESE	1	bc	#	Yarmouth ...	30.16	38	36	SW	2	c	3
Holyhead ...	30.02	49	48	NE	1	o	o	Rochefort ...	30.19	41	?	N	4	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fair and quiet over northern Europe, fine and bright over the southern part of the North Sea and the Netherlands, very changeable over our Islands, very unsettled over the eastern and southern parts of the Mediterranean. Rain falling later over the eastern and northern parts of our Islands generally, and in the south of France; snow in several parts of Scandinavia. Damp fogs and mists reported in many places.

Temperature rises quickly over Ireland, but changed fitfully as a whole. Morning readings highest (1) 63° at Malta, 60° at Palermo, 57° at Brindisi and Lissina; (2) 51° at Rochefort, 49° at Scilly, 48° at Holyhead. Lowest, -3° to +3° over Finland and the extreme north of Russia; 17° to 32° over the more southern parts; (3) below 32° over South Germany, many parts of France and the southeast of England. Continuing to change little and irregularly over our Islands.

Wind (1) Variable from between SE. and SW. (cyclonic) over the greater part of our Islands; (2) Cyclonic over the Mediterranean and Southern Europe (a strong gale from SE. at Lissina); (3) light and anticyclonic over northern Europe, as well as over the Netherlands, the southeast of England and the north of France.

Barometer highest 30.5 in. to 30.2 in. in an anticyclone lying over northern Europe; (2) 30.52 in. at P. Delgada (Azores), and exceeding 30.2 in. at Lisbon, as well as over the northwest of France and some parts of England. Lowest (1) 29.5 in. and less to 29.7 in. in a large disturbance over the Mediterranean; (2) 29.9 in. to 30.0 in. in two shallow systems over the west and north of the British Islands. Rising over Scotland later; falling in the south of France and over Ireland.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on

Monday, 6th December,

1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.		
							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.	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.)								
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
	Hernösand ...	30.57	21	Z	0	0	30.54	+0.01	19	18	0	Z	0	0	#	0	#	23	12	-	
	Stockholm ...	30.52	25	Z	0	f	30.49	-0.05	24	23	-2	Z	0	f	#	f	#	27	21	-	
	Wisby ...	30.58	22	Z	0	f	30.49	-0.05	26	26	0	Z	0	0	#	f	#	28	19	-	
	Karlstad ...	30.52	35	E	4	0	30.42	-0.06	34	32	-1	SSE	4	0	#	0	#	36	32	-	
		30.51	26	NE	2	0	30.40	-0.15	23	27	+7	NE	2	0	#	0	#	#	#	-	
	Bodö ...	30.34	34	Z	0	b	30.20	-0.19	28	24	-2	E	4	0	#	0	#	30	25	-	
	Christiansund ...	30.30	32	Z	0	b	30.16	-0.20	30	28	-5	ESE	1	0	#	0	#	35	28	-	
	Skudesnaes ...	30.31	32	ESE	6	0	30.10	-0.31	39	35	+3	SE	6	0	#	0	#	39	30	#	
	Færder (Christiania Fjord)	30.51	29	NE	2	0	30.32	-0.22	34	33	+10	ESE	4	0	#	0	#	34	23	-	
BRITISH ISLANDS.	Skagen (The Scaw)	30.49	35	S	1	0	30.28	-0.19	35	35	+4	SE	4	0	#	0	#	36	30	0.16	
	Fanö ...	30.21	33	NE	2	0	30.08	-0.15	34	33	+6	E	2	0	#	0	#	34	28	0.20	
	Sumburgh Head	29.89	44	S	6	0	29.68	-0.33	45	45	+1	S	5	0	#	0	#	46	41	0.64	
	Stornoway ...	29.72	46	WSW	2	0	29.60	-0.19	36	35	-9	SSW	3	0	#	0	#	40	33	0.20	
	Wick ...	29.79	42	S	5	0	29.61	-0.33	43	42	-2	Z	0	0	#	0	#	46	39	0.06	
	Nairn ...	29.81	45	WSW	3	0	29.65	-0.33	41	40	+4	Z	0	0	#	0	#	46	36	0.11	
	Aberdeen ...	29.92	44	SSE	7	oggyr	29.67	-0.37	45	44	+1	S	6	oggyr	6	oggyr	45	43	0.30		
	Leith ...	29.89	48	SW	2	0	29.63	-0.33	46	43	+5	WSW	3	0	#	0	#	49	39	0.04	
	Shields ...	30.05	38	ENE	3	0	29.79	-0.34	41	41	+4	SSE	3	0	#	0	#	41	36	0.16	
	Spurn Head ...	30.11	40	SSE	5	0	29.88	-0.31	40	40	+2	S	5	0	#	0	#	40	37	0.03	
GERMANY & HOLLAND.	York ...	30.10	38	S	2	bc	29.86	-0.31	41	41	+5	S	2	0	#	0	#	41	34	0.19	
	Loughborough ...	30.14	37	SE	1	0	29.92	-0.26	41	40	+5	S	4	0	#	0	#	41	36	0.11	
	Ardrossan ...	29.86	50	SSE	3	0	29.70	-0.26	46	45	+1	SSW	4	0	#	0	#	50	43	0.23	
	Malin Head ...	29.85	46	W	1	0	29.58	-0.25	40	40	-4	S	6	0	#	0	#	47	39	0.28	
	Belmullet ...	29.97	41	WNW	4	0	29.65	-0.19	45	40	-4	W	9	0	#	0	#	50	39	0.65	
	Donaghadee ...	29.87	50	SW	3	0	29.76	-0.18	36	36	-10	SW	3	0	#	0	#	50	35	0.24	
	Liverpool (Bidston)	30.03	43	SE	3	0	29.85	-0.24	44	42	+5	SW	1	0	#	0	#	46	38	0.28	
	Holyhead ...	29.97	49	S	6	ogm	29.83	-0.18	46	45	-2	SW	3	0	#	0	#	49	43	0.25	
	Parsonstown ...	29.91	49	Z	0	0	29.78	-0.15	40	39	-5	SE	1	0	#	0	#	51	36	0.28	
	Valencia ...	29.96	49	WNW	1	0	29.88	-0.06	50	46	0	W	7	0	#	0	#	54	37	0.25	
FRANCE & BELGIUM.	Roche's Point ...	29.94	50	WSW	4	0	29.90	-0.07	48	46	-4	W	3	0	#	0	#	52	42	0.20	
	Pembroke (St. Ann's Hd.)	29.96	51	SSW	6	0	29.90	-0.15	50	47	-1	WNW	5	0	#	0	#	52	48	0.55	
	Scilly ...	30.02	52	SSW	1	0	29.96	-0.07	51	50	-1	W	3	0	#	0	#	54	49	0.09	
	Prawle Point ...	30.12	45	SSE	5	0	29.97	-0.19	49	49	+2	SW	2	0	#	0	#	49	45	0.23	
	Jersey (St. Aubin's)	30.20	44	SE	3	0	30.08	-0.13	42	42	0	SE	3	0	#	0	#	46	40	0.09	
	Hurst Castle ...	30.17	45	SW	2	0	30.02	-0.18	45	44	0	SSW	5	0	#	0	#	46	44	0.09	
	Dungeness ...	30.19	38	N	2	0	30.06	-0.15	45	43	+13	SSW	3	0	#	0	#	46	32	-	
	North Foreland	30.20	40	N	2	0	30.04	-0.17	42	40	+4	S	1	0	#	0	#	42	31	-	
	London (Brixton) ...	30.19	38	SW	1	0	30.04	-0.20	42	40	+4	S	3	0	#	0	#	42	38	0.01	
	Oxford ...	30.16	37	SE	2	bc	29.97	-0.24	41	40	+5	S	3	0	#	0	#	41	36	0.11	
PENIN- SULA.	Cambridge ...	30.18	38	S	1	f	30.01	-0.23	41	40	+4	S	3	0	#	0	#	41	34	-	
	Yarmouth ...	30.16	38	ENE	2	b	30.02	-0.20	40	38	+7	SSW	2	0	#	0	#	40	31	-	
	Cuxhaven ...	30.12	34	E	2	0	30.06	-0.17	33	33	-2	SE	2	0	#	0	#	36	32	0.08	
	Berlin ...	30.16	34	E	3	0	30.15	-0.04	33	33	0	SE	3	0	#	0	#	34	32	-	
	Wiesbaden ...	#	#	#	#	#	30.12	-0.04	36	35	0	N	1	0	#	0	#	37	36	-	
	Munich ...	29.99	30	Z	0	0	30.10	+0.13	30	29	+3	SW	3	0	#	0	#	32	27	-	
	The Helder ...	30.13	37	NE	1	0	30.04	-0.19	37	36	+1	S	1	0	#	0	#	39	36	-	
	Brussels ...	#	#	#	#	#	30.14	-0.05	33	33	+1	SW	1	0	#	0	#	34	32	-	
	Cape Gris Nez ...	30.12	40	NE	1	0	30.02	-0.14	38	37	+2	S	3	0	#	0	#	41	32	-	
	Paris ...	30.17	31	N	2	bc	30.17	-0.01	34	33	+2	W	1	0	#	0	#	35	30	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 0.7 hrs;

WEATHER CHARTS

FOR Monday, 6th December, 1897.

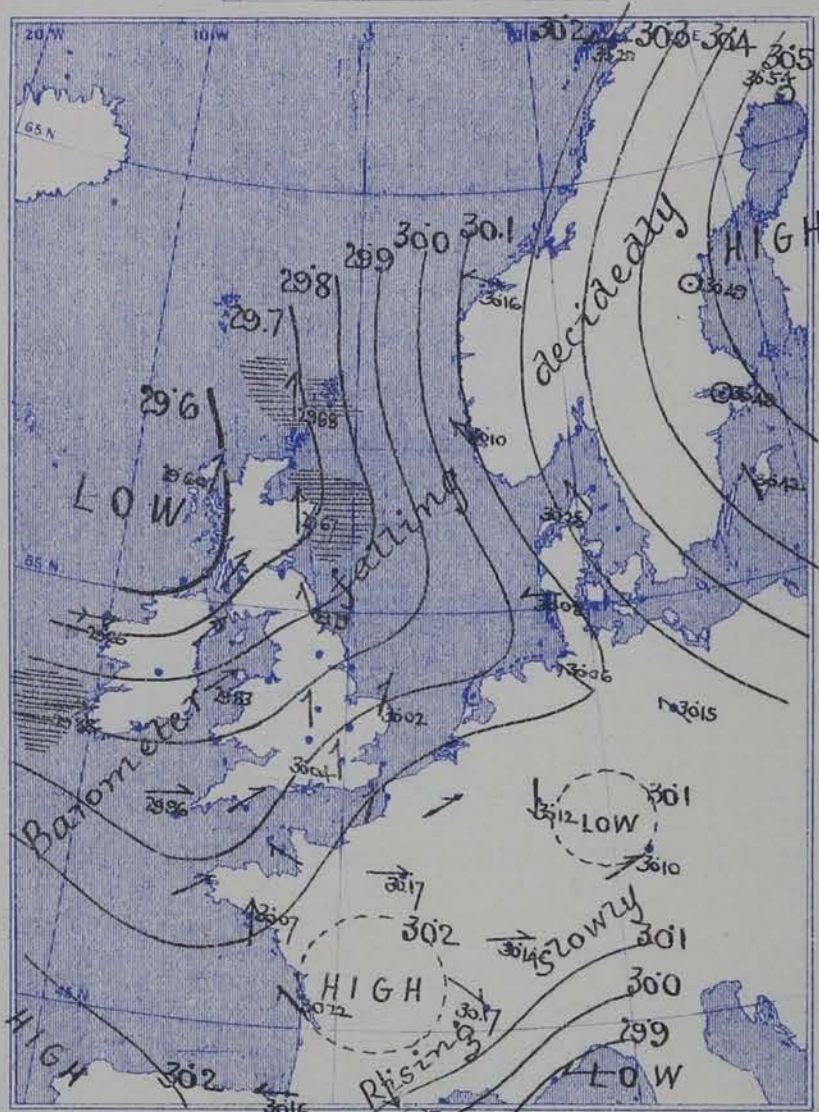
BAROMETER, WIND AND SEA.

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 ≡≡≡

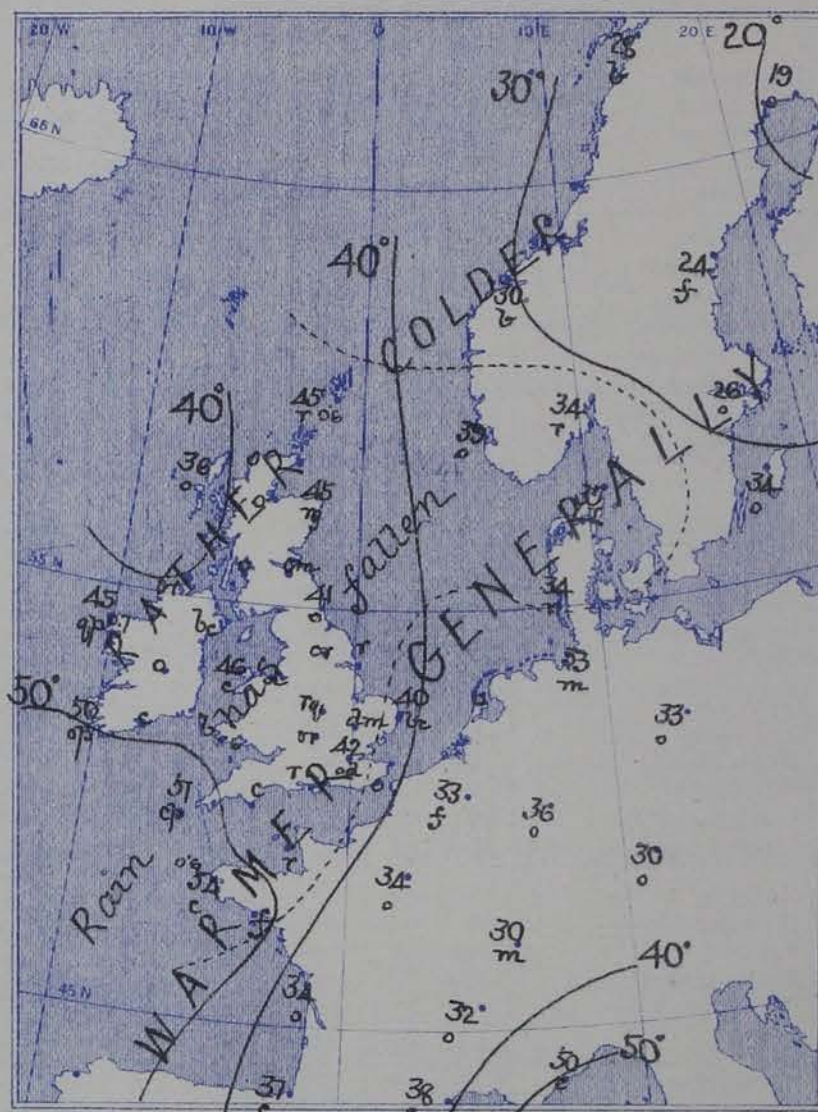


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30.5 in. and more to 30.2 in. over Iceland, the Baltic and Sweden; (2) 30.3 in. and more to 30.2 in. over the Spanish Peninsula and the southeast of France.

Lowest, Below 29.6 in. off the northwest of Ireland, and below 29.7 in. over Scotland.

Gradients rather steep over the north of Ireland and south of Scotland.

Barometer falling in our Islands generally, most in the northwest and north.

TEMPERATURE

Highest, 55° at Lisbon, 50° at Nice; 54° to 50° on the southwestern coast of our Islands and the coast of Brittany;

Lowest, 19° to 26° on the Swedish coast, 28° at Karlsbad, 34° at Jaro and Paris, 40° at Yarmouth, Spurn Head, and Harrogate.

It has varied a good deal over our Islands during the past 24 hours, and while it has touched 54° at Valencia it has scarcely exceeded 40° over the midland and eastern parts of England.

WIND

Strong to a gale from W. in the extreme west of Ireland, but moderate to strong from S. over almost the whole of Great Britain, and from S.E. or E. at the Norwegian stations. Calms prevail over France.

WEATHER

Dull and unsettled over the British Isles and North Sea as a whole, with rain at many stations; dull over France, with fog or haze in some localities.

Rain has fallen over the greater part of the Kingdom and in Denmark and the north of France — rather heavily at some of the western and northern stations. Nearly 2 ins. of bright sunshine were recorded yesterday at Harrogate, and less than an hour at a few other western stations, none elsewhere.

SEA

Rough at Lumbagh Head, Abbeville, and Valencia, slight on the English coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With pressure so high both over northern and southern Europe the advances of depressions of small intensity from the Atlantic is likely to cause a continuance of rainy, changeable weather all over our Islands.

FORECASTS

For the 24 hours ending at NOON on 7th DEC^r. 1897.

DISTRICTS.

FORECASTS.

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

S^W to W^W winds, strong, squally, rainy, colder, possibly snow.

Same as N° 5.

S^W to W^W winds, increasing in strength; showery, becoming colder.

DISTRICTS.


FORECASTS.


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

W^W winds, very strong; squally, showery, cold. Probably backing again later.

WARNINGS

NONE ISSUED AT PRESENT.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.58	35	33	SE	6	c	5	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.71	49	47	S	6	r	7	Jersey ...	30.22	45	40	SE	3	b	3
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30.18	42	39	NE	2	c	1
Ardrossan ...								North Foreland	30.20	41	37	N	2	c	2
Malin Head ...	29.79	47	47	S	5	r	2	London (Westminster)							#
Belmullet ...	29.88	49	46	NE	1	o	*	Yarmouth ...							
Holyhead ...								Rocheport ...	30.17	38	36	NE	3	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 28th NOV^r TO THE 4th DEC^r 1897.

During the early part of this week the weather over northwestern Europe was in a very stormy condition. Early on the 28th the centre of a deep depression advanced to the north of Scotland, the disturbance subsequently moving southwards across the North Sea and increasing considerably in depth. During its progress strong to whole gales from the Wnd, veering to NW, and in some places to N. were experienced over the whole of our Islands and the neighbouring parts of the Continent, with rain in most districts, followed by squalls of hail or snow. Lightning was seen in many parts of our Islands on the night of the 28th.

By the morning of the 30th the disturbance had passed on to the west of Russia, where it gradually dispersed, but a new depression had already appeared off the north of Scotland in a position almost identical with that occupied by its predecessor on the morning of the 28th. Later on the depression spread southwards, secondary systems being apparently developed at the same time over our Islands and the North Sea, and on the 30th heavy rain fell over the northern parts of England and Wales, while a fresh to strong gale from the Wnd was experienced on all our southern coasts. On the 1st and 2nd December the depression, which had become very complex, moved away in a southeasterly direction, the wind in its rear increasing considerably from the N^W, and blowing with the force of a gale on the Kentish coasts as well as in the Irish Sea.

An anticyclone now advanced from the Westward and spread over the whole of western and northern Europe, but on the 3rd Dec a new depression appeared off the northwest of Scotland the system proving very complex, and subsequently extending over the whole of our western and northern districts. At the close of the week further disturbances were apparently advancing from the Atlantic.

Temperatures were high over Ireland and England, but subsequently became rather low generally, and a very sharp frost over Central England on the night of the 3rd, the shallowest thermometer touching 23° at Oxford and 25° at Cambridge.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 7th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.	
				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.
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
Haparanda ...	30.41	16	2	0	0	30.24	- .30	24	24	+ 5	S	2	0	0	0	24	14	-			
Hernösand ...	30.33	27	5	2	0	29.97	- .52	34	33	+ 10	S	6	0	0	0	?	18	0.12			
Stockholm ...	30.29	34	2	0	0	30.04	- .45	35	34	+ 9	S	2	0	0	0	35	21	0.08			
Wisby ...	30.25	35	SSE	4	0	30.07	- .35	36	36	+ 2	S	4	0	0	0	36	32	-			
Karlstad ...	30.15	31	NE	2	0	29.94	- .46	35	34	+ 7	SSW	2	0	0	0	3	3	0.28			
Bodö ...	30.09	24	E	2	0	29.80	- .40	27	24	- 1	E	5	0	0	0	28	19	-			
Christiansund ...	29.89	34	ESE	4	0	29.58	- .58	39	35	+ 9	SE	1	0	0	0	39	28	-			
Skudesnaes ...	29.87	41	ESE	7	0	29.64	- .46	41	40	+ 2	SSE	6	0	0	0	41	34	0			
Færder (Christiania Fjord)	30.09	35	E	4	0	29.85	- .47	39	38	+ 5	SSE	4	0	0	0	39	34	0.32			
Skagen (The Scaw)	30.04	35	SW	1	0	29.88	- .40	37	36	+ 2	SW	4	0	0	0	37	34	0.28			
Fanö ...	30.12	36	SSE	3	0	29.89	- .19	38	38	+ 4	SSW	2	0	0	0	38	32	0.32			
Sumburgh Head	29.47	43	S	3	0	29.32	- .36	43	39	- 2	W	3	0	0	0	46	40	0.49			
Stornoway ...	29.42	38	SW	2	0	29.16	- .44	45	44	+ 9	SSW	8	0	0	0	45	36	0.65			
Wick ...	29.45	41	S	3	0	29.30	- .31	42	40	- 1	S	5	0	0	0	44	35	0.02			
Nairn ...	29.50	36	W	1	0	29.36	- .29	42	39	+ 1	S	4	0	0	0	46	34	0.05			
Aberdeen ...	29.55	39	SW	3	0	29.53	- .14	39	38	- 6	S	4	0	0	0	45	34	0.01			
Leith ...	29.61	41	WSW	3	0	29.55	- .08	43	40	- 3	S	3	0	0	0	49	38	0.07			
Shields ...	29.75	43	SW	2	0	29.80	+ .01	41	39	0	SW	3	0	0	0	48	38	0.01			
Spurn Head ...	29.86	42	WSW	4	0	29.95	+ .07	37	36	- 3	SW	4	0	0	0	44	36	0.09			
York ...	29.82	44	W	4	0	29.89	+ .03	40	37	- 1	S	4	0	0	0	47	35	0.04			
Loughborough ...	29.93	41	SW	1	0	30.04	+ .12	39	36	- 2	SW	5	0	0	0	49	36	0.04			
Ardrossan ...	29.66	42	W	5	0	29.54	- .16	47	47	+ 1	S	7	0	0	0	47	40	0.07			
Malin Head ...	29.68	44	W	9	0	29.37	- .21	48	48	+ 8	S	6	0	0	0	48	39	0.12			
Belmullet ...	29.94	44	WNW	6	0	29.54	- .11	52	51	+ 7	W	7	0	0	0	52	38	0.10			
Donaghadee ...	29.83	38	WSW	6	0	29.65	- .11	44	42	+ 8	WSW	6	0	0	0	44	33	0.08			
Liverpool (Bidston)	29.89	42	WSW	5	0	29.93	+ .08	39	36	- 5	S	3	0	0	0	48	37	0.08			
Holyhead ...	29.92	43	W	8	0	29.85	+ .02	49	47	+ 3	SW	7	0	0	0	49	39	0.05			
Parsonstown ...	30.00	37	W	1	0	29.72	- .06	49	47	+ 9	SW	2	0	0	0	49	35	0.05			
Valencia ...	30.11	45	WNW	4	0	29.89	+ .01	53	52	+ 3	SW	6	0	0	0	53	42	0.14			
Roche's Point ...	30.12	44	WNW	4	0	29.89	- .01	52	52	+ 4	SW	6	0	0	0	52	40	0.02			
Pembroke (St. Ann's Hd.)	30.05	48	NW	6	0	29.99	+ .09	51	49	+ 1	W	6	0	0	0	51	47	0.05			
Scilly ...	30.10	49	WNW	5	0	30.16	+ .18	51	50	0	WSW	5	0	0	0	54	45	0.06			
Prawle Point ...	30.09	44	W	3	0	30.18	+ .21	47	46	- 2	WSW	4	0	0	0	51	39	0.05			
Jersey (St. Aubin's)	30.10	50	NE	3	0	30.25	+ .17	49	46	+ 7	W	2	0	0	0	50	39	0.36			
Hurst Castle ...	30.01	49	W	3	0	30.18	+ .16	47	45	+ 2	WSW	3	0	0	0	51	41	0.04			
Dungeness ...	30.00	48	SSW	3	0	30.16	+ .10	43	40	- 2	W	3	0	0	0	49	36	0.02			
North Foreland	30.02	45	S	4	0	30.15	+ .11	38	36	- 4	SW	2	0	0	0	45	35	0.07			
London (Brixton) ...	29.99	45	SSW	2	0	30.14	+ .10	38	36	- 4	SW	2	0	0	0	47	35	0.09			
Oxford ...	30.06	40	WSW	2	0	30.12	+ .15	37	36	- 4	SW	2	0	0	0	48	34	0.01			
Cambridge ...	29.95	43	SW	4	0	30.10	+ .09	33	32	- 8	SW	2	0	0	0	46	31	0.03			
Yarmouth ...	29.93	42	SW	3	0	30.06	+ .04	35	34	- 5	SW	3	0	0	0	43	33	0.01			
Cuxhaven ...	30.07	32	S	1	0	29.98	- .08	24	34	+ 1	SW	4	0	0	0	36	32	0.16			
Berlin ...	30.18	35	S	3	0	30.16	+ .01	27	36	+ 4	SW	3	0	0	0	37	33	-			
Wiesbaden ...	*	*	*	*	*	30.25	+ .13	37	36	+ 1	SW	2	0	0	0	37	36	-			
Munich ...	30.21	31	SW	2	0	30.30	+ .20	30	29	0	SW	4	0	0	0	32	30	-			
The Helder ...	30.02	38	S	2	0	30.05	+ .01	42	40	+ 5	WSW	3	0	0	0	43	37	0.12			
Brussels ...	*	*	*	*	*	30.23	+ .09	36	36	+ 3	SW	1	0	0	0	39	33	0.04			
Cape Gris Nez ...	29.96	39	SW	2	0	30.13	+ .11	44	41	+ 6	W	3	0	0	0	43	36	0.12			
Paris ...	30.19	37	S	2	0	30.29	+ .12	36	36	+ 2	S	2	0	0	0	42	34	0.04			
Brest ...	30.13	52	NW	3	0	30.26	+ .25	50	46	- 4	WNW	4	0	0	0	55	45	0.28			
Lorient ...	30.17	50	N	4	0	30.34	+ .27	48	47	- 4	N	1	0	0	0	55	37	0.16			
Rochefort ...	30.17	39	SSE	4	0	30.32	+ .10	40	40	+ 6	N	2	0	0	0	40	34	0.16			
Belfort ...	30.21	33	W	2	0	30.36	+ .22	32	?	+ 2	W	2	0	0	0	33	30	-			
Lyons ...	30.27	33	WNW	1	0	30.36	+ .19	33	32	+ 1	N	1	0	0	0	34	31	-			
Nice ...	30.01	?	2	0	0	30.12	+ .30	46	41	- 4	E	1	0	0	0	55	43	0.04			
Perpignan ...	30.15	46	NW	3	0	30.26	+ .19	47	41	+ 9	W	3	0	0	0	50	38	-			
Biarritz ...	30.20	44	SE	3	0	30.30	+ .14	52	50	+ 15	WNW	3	0	0	0	52	37	0.16			
Corunna ...	30.40	56	N	4	0	30.44	+ .07	53	50	- 2	N	4	0	0	0	61	53	-			
Lisbon ...	30.69	59	ESE	3	0	30.70	+ .13	55	50	- 2	NE	2	0	0	0	64	52	-			

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport: 1.4 hrs;

WEATHER CHARTS

FOR *Tuesday, 7th December, 1897.*

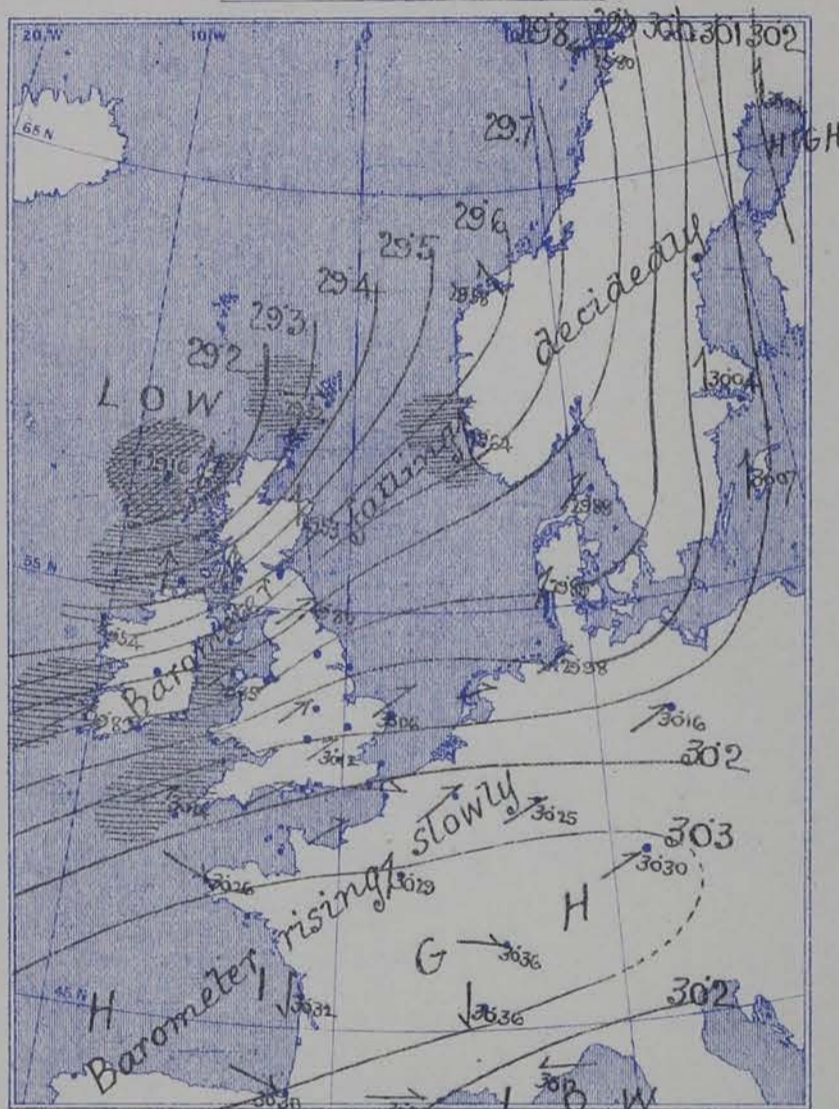
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew 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 ≡≡≡



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871—95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.909	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Seilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and more to 30.1 ins. in an anticyclone over the Bay of Biscay, France, Germany, and the South of England, and also over Finland.

Lowest Below 29.2 ins. in a large depression, the centre of which lies to the NW^m of Stornoway. Gradients steep (for SW^m winds) over our islands.

Barometer falling rapidly at our NW^m stations and decidedly all over our islands.

TEMPERATURE

Highest 53° at Valencia (Ireland), 52° at Belmullet, Scilly, and Biscuit.

Lowest 44° at Haparsand, 27° at Bodø, 30° at Manick, 32° at Belfort, 33° at Cambridge, 38° in London. It had fallen fast over England, but risen fast in Ireland, and the rise was spreading eastwards.

WIND

S. to SW^m over the whole of our Islands and their neighbourhood; — moderate in force at our southern, eastern and northeastern stations, very strong in the west, and blowing a gale at Stornoway. Over France and Germany it was light and anticyclonic.

WEATHER

Fair over Germany, France and the SE^m and E^m parts of England, very unsettled elsewhere, with rain at many of the western and northern stations.

Rain had fallen very generally, but not heavily. Hails and Coronas have been seen in many places. Bright Sunshine recorded yesterday was considerable at our SW^m and W^m stations; over our SE^m districts there was none.

SEA

Very high at Stornoway, rough at many of the northern and western stations, smooth on our southeast and east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Rough rainy weather is likely to be very general, with strong SW^m winds, and in many places gales, and high temperatures for the time of year. Our N. and W. coasts have all been warmed.

FORECASTS

For the 24 hours ending at NOON on 8TH DECEMBER 1897.

DISTRICTS.

FORECASTS.

1 SCOTLAND NORTH

2 SCOTLAND EAST

3 ENGLAND N.E.

4 ENGLAND EAST

5 MIDLAND COUNTIES

6 ENGLAND SOUTH

S. and SW^m gales, rainy, squally.

SW^m winds, fresh to strong, becoming mild and rainy.

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.

WARNINGS

At 0.25 pm. yesterday to districts 01 and 6 and at 10.20 am today to districts 7 to 10. 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.99	41	39	ESE	4	0	3	Valencia ...	30.02	45	43	WSW	7	cg	6
Sumburgh Head ...	29.51	44	44	S	5	0	6	Scilly ...	30.02	51	48	WNW	6	cp	4
Stornoway ...	29.41	42	41	SW	5	7	6	Jersey ...	30.05	46	46	SSE	3	0	3
Aberdeen ...	29.57	43	40	SSW	3	bc	5	Hurst Castle ...	29.97	50	49	SW	4	cm	3
Shields ...	29.73	47	43	SSW	2	c	2	Dungeness ...	30.00	44	42	SSW	4	p	3
Ardrossan ...	29.57	44	43	SW	7	cp	4	North Foreland ...	30.01	43	41	S	4	r	3
Malin Head ...	29.52	43	43	WNW	7	cp	5	London (Westminster) ...	29.98	46	45	SSW	2	gfd	#
Belmullet ...	29.82	44	40	WNW	8	pc	*	Yarmouth ...	29.94	42	41	SSW	3	d	3
Holyhead ...	29.83	46	42	W	7	cp	6	Rochefort ...	30.18	37	36	SSE	3	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fair and quiet over Russia, Germany, France and Spain, and foggy in several places, but very unsettled over the British Islands, and rather so over the Mediterranean. Rain falling generally over the United Kingdom and neighbouring countries later. Hail in the N. of Ireland; Halos and coronas seen in many places.

Temperature changing fitfully. Morning reading, highest 58° to 50° at many of the Mediterranean stations; 54° at Brest, 51° at Scilly, 50° at Valencia (Ireland). Lowest 11° at Riga, 14° at Moscow, much below 30° over Russia generally; 30° at Munich and Belfort, 34° at Paris, 36° at Stornoway, 40° at Parsonstown and Yarmouth. Changing very irregularly during the day, and becoming temporarily frosty over England at night. Rising fast in Ireland still later.

Wind very light and variable over Russia and SW Europe; light SE over central Europe; strong SE on the eastern shores of the North Sea, very variable and cyclonic from between S and W over the United Kingdom, and blowing hard at Belmullet. Becoming very strong over the Irish Sea later, and veering W over England.

Barometer highest 30.5 ins. and more over Russia and also over the Pyrenees, and varying from 30.2 ins. and more to 30.1 ins. over France and Germany. Lowest below 29.6 ins. in a depression off the W. of Scotland, and below 29.8 ins. in another over the Mediterranean. The northern system travelling NE^W later and the barometer rising fast over Ireland.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on *Wednesday, 8th December, 1897.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				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.)	Max.	Min.	Rainfall.
		Ina.	°				Ina.	Ina.	°	°	°						°	°	Ina.		
SCANDINAVIA.	Haparanda ...	29.92	21	SE	4	S	29.60	-.64	26	26	+ 2	SSE	4	0	#	S	#	26	14	0.16	
	Hernösand ...	29.65	33	SE	4	S	29.44	-.53	35	34	+ 1	S	8	0	#	S	#	35	25	0.24	
	Stockholm ...	29.76	34	S	2	0	29.55	-.49	37	35	+ 2	S	6	0	#	0	#	37	32	0.08	
	Wisby ...	29.88	37	W	4	0	29.67	-.40	37	35	+ 1	S	8	0	#	0	#	37	32	0.08	
	Karlstad ...	29.65	37	S	2	T	29.11	-.83	37	36	+ 2	S	6	T	#	T	#	#	#	0.43	
	Bodö ...	29.43	36	E	2	C	29.12	-.68	32	29	+ 5	E	6	6	1	C	#	36	25	-	
	Christiansund ...	29.19	38	SE	5	bc	28.67	-.91	42	38	+ 3	SE	7	6	3	bc	#	43	37	-	
	Skudesnaes ...	29.34	43	S	9	T	28.73	-.91	44	41	+ 3	WSW	4	0	3	C, r	#	45	37	#	
	Færder (Christiania Fjord)	29.60	41	SW	5	0	28.95	-.90	39	39	0	SSE	9	T	6	0	#	41	37	0.95	
	Skagen (The Seaw)	29.65	39	WSW	4	bc	28.97	-.91	37	36	0	SW	9	T	3	bc, r	#	39	37	0.63	
Fanö ...	29.67	41	SSW	6	T	29.02	-.87	43	43	+ 5	SW	6	C	#	T	#	43	37	0.43		
BRITISH ISLANDS.	Sumburgh Head	28.74	46	SSW	3	T	28.46	-.86	40	39	- 3	W	5	T	6	0, r	#	46	38	1.16	
	Stornoway ...	28.81	41	WNW	6	T, q, u	28.66	-.50	36	35	- 9	W	6	6	7	ph, r, s, gl	0.1	48	33	0.90	
	Wick ...	28.85	46	SW	3	C	28.63	-.67	35	34	- 7	W	4	0, u	2	C, sp	#	48	33	0.09	
	Nairn ...	28.84	45	W	4	C	28.75	-.61	36	34	- 6	W	3	0, p	3	C, p	#	50	32	0.26	
	Aberdeen ...	28.94	48	SSW	6	bc, q	28.83	-.70	35	32	- 4	SW	2	bc	3	0, q, q, r	0.0	49	34	0.01	
	Leith ...	29.07	48	SW	4	T	28.92	-.63	35	34	- 8	WSW	3	0, r, s, p	#	T	#	54	33	0.15	
	Shields ...	29.18	54	SSW	6	0	29.06	-.74	38	36	- 3	WSW	4	C	2	0, r	#	55	36	0.39	
	Spurn Head ...	29.44	48	SSW	6	0	29.18	-.77	38	37	+ 1	W	6	C, q, p, u	5	C, q	#	51	37	0.24	
	York ...	29.36	50	WSW	5	0	29.17	-.72	37	36	- 3	W	3	C, q, p	#	0, p, q	0.0	53	34	0.32	
	Loughborough ...	29.60	50	S	6	T	29.32	-.72	37	36	- 2	W	3	0, u	#	q, u, C, q, p	#	53	37	0.35	
GERMANY & HOLLAND.	Ardrossan ...	29.11	49	W	6	P	28.97	-.57	39	39	- 8	WSW	6	0, q, r, s, l	5	T, p	#	51	36	0.29	
	Malin Head ...	29.09	48	WSW	7	0, r, h, q	28.93	-.44	40	39	- 8	WSW	8	C	7	0, T, h, q	#	51	33	0.25	
	Belmullet ...	29.32	47	W	6	C, q, p	29.22	-.32	41	38	- 11	WNW	8	0, q, p	#	0, C, q, p	#	53	35	0.20	
	Donaghadee ...	29.22	51	SW	6	C, q, p	29.14	-.51	34	34	- 10	WSW	6	S	4	C, q, p	#	53	33	0.38	
	Liverpool (Bidston)	29.43	54	WSW	6	0	29.23	-.70	41	37	+ 2	W	7	T	7	0, r	#	55	38	0.49	
	Holyhead ...	29.41	53	SW	8	0, q	29.27	-.58	41	38	- 8	W	8	0, q	7	0, q	#	53	33	0.32	
	Parsonstown ...	29.41	52	W	4	0	29.35	-.37	35	34	- 14	W	1	bc	#	0, q, r, p, s	0.0	55	35	0.25	
	Valencia ...	29.36	54	SW	6	0, dm	29.51	-.38	43	40	- 10	W	8	C, q, p	7	r, q, 0, 2	#	55	37	0.30	
	Roche's Point ...	29.60	54	W	6	T	29.51	-.38	40	38	- 12	WNW	5	C	4	0, q	#	55	38	0.40	
	Pembroke (St. Ann's Hd.)	29.60	53	W	7	T	29.41	-.58	45	41	- 6	WNW	7	bc, q	6	0, r	0.0	53	40	0.64	
FRANCE & BELGIUM.	Scilly ...	29.85	54	SSW	7	T	29.61	-.53	51	46	0	WNW	9	0, q	6	0, r	0.0	57	45	0.63	
	Prawle Point ...	29.86	57	SW	7	T	29.56	-.62	45	43	- 2	W	8	0, q, p	7	0, q, r	#	53	43	0.69	
	Jersey (St. Aubin's)	30.08	53	SW	5	0, r, m	29.65	-.60	53	49	+ 4	W	6	0, m	5	0, r, m	#	53	47	0.28	
	Hurst Castle ...	29.87	52	SW	7	T	29.50	-.68	47	44	0	W	6	bc	3	0, p, q	#	55	47	0.58	
	Dungeness ...	29.91	50	SW	6	0, q, r	29.41	-.75	48	45	+ 5	W	7	C	6	0, r, q	#	52	43	0.40	
	North Foreland	29.92	48	SW	4	T, q	29.39	-.76	46	44	+ 8	WSW	3	C	2	0, T, q	#	51	34	0.27	
	London (Brixton) ...	29.80	50	SW	5	T	29.40	-.74	43	42	+ 5	WNW	2	T	#	bc, 0, q, r	0.0	54	37	0.56	
	Oxford ...	29.83	52	S	6	T	29.41	-.71	41	39	+ 4	W	3	0, r	#	C, 0, q, r	#	54	37	0.30	
	Cambridge ...	29.71	49	SW	7	T, q	29.35	-.75	43	40	+ 10	WSW	5	0	#	0, q, r	0.0	55	31	0.35	
	Yarmouth ...	29.73	46	SW	6	0, q, r	29.26	-.78	43	40	+ 8	WSW	4	bc	4	C, 0, r, q	#	48	33	0.28	
PENIN- SULA.	Cuxhaven ...	29.97	36	SW	4	0	29.19	-.79	41	41	+ 7	SW	7	T	#	0, r	#	41	34	0.24	
	Berlin ...	30.17	38	SSW	4	0	29.69	-.47	37	36	0	SW	5	T	#	0	#	39	32	-	
	Wiesbaden ...	#	#	#	#	#	29.75	-.50	41	36	+ 4	S	2	0	#	#	#	41	37	0.04	
	Munich ...	30.30	30	W	3	0	30.01	-.29	27	27	- 3	S	3	0	#	0	#	32	25	-	
	The Helder ...	29.80	43	SW	7	T	29.22	-.83	46	44	+ 4	WSW	3	0	2	T	#	46	42	0.67	
	Brussels ...	#	#	#	#	#	29.43	-.80	48	46	+ 12	SW	8	T	#	0	#	49	36	0.24	
	Cape Gris Nez ...	30.23	39	S	2	bc	29.72	-.57	48	48	+ 12	SSW	5	T	#	bc	#	?	36	0.04	
	Paris ...	30.08	54	SW	5	T	29.77	-.49	53	53	+ 3	W	5	T	5	T	#	54	46	0.32	
	Brest ...	30.17	54	W	4	m	29.79	-.56	55	55	+ 7	W	6	T	6	m	#	57	48	0.08	
	Lorient ...	30.28	45	SSE	3	0	29.97	-.35	54	53	+ 14	WSW	6	0	#	0	#	?	?	-	
GERMANY & HOLLAND.	Belfort ...	30.32	34	Z	0	m	30.00	-.36	39	37	+ 7	WSW	6	T	#	m	#	?	32	0.12	
	Lyons ...	30.38	37	T	1	0	30.19	-.17	37	36	+ 4	SSE	1	T	#	0	#	40	32	-	
	Nice ...	30.15	48	E	2	b	30.12	-.00	47	40	+ 1	Z	0	bc	1	b	#	59	45	-	
	Perpignan ...	30.30	51	W	3	b	30.26	-.00	38	36	- 9	W	2	b	#	b	#	56	37	-	
	Biarritz ...	30.34	54	WNW	2	0	30.17	-.13	53	48	+ 1	SW	5	0	5	0	#	55	43	0.12	
	Corunna ...	30.45	53	WNW	4	b	30.47	+ 0.3	52	50	- 1	WNW	3	bc	#	b	#	59	50	-	
	Lisbon ...	30.71	58	WNW	2	C	30.68	-.02	58	56	+ 3	WNW	1	C	2	C	#	64	55	-	
	Azores (P. Delgada)	30.71	58	WNW	2	C	30.68	-.02	58	56	+ 3	WNW	1	C	2	C	#	64	55	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport... 0.0 hrs;

WEATHER CHARTS

FOR Wednesday, 8th December, 1897.

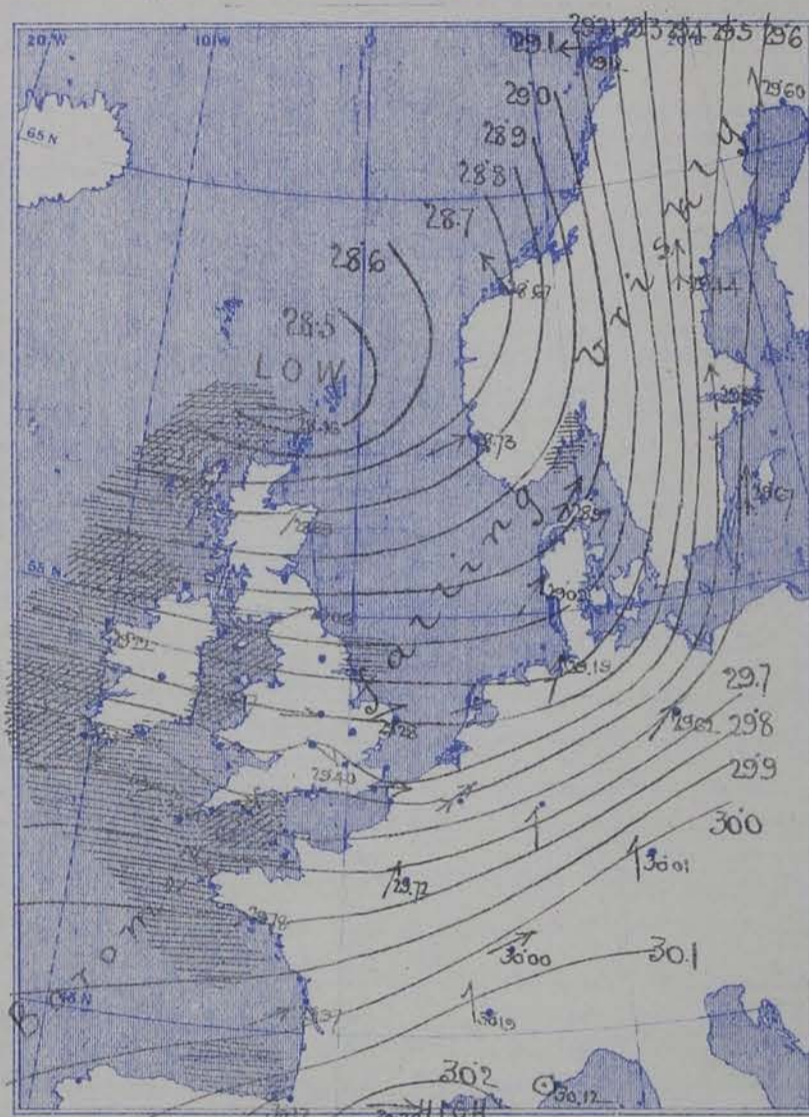
BAROMETER, WIND AND SEA.

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



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and more over Spain and the south of France, and exceeding 29.5 in. over the Baltic and Finland
Lowest, Below 28.5 in. over the Shetland Isles.

Gradient very steep for 5³ miles in Sweden and some parts of North Germany.
Barometer falling except at Valenciennes, where apparently the fall has ceased.

TEMPERATURE

Highest, 55° to 53° on the west coast of France, 53° at Jersey, 51° at Kelly.

Lowert (1) 26° at Haparanda, 37° at Stockholm; (2) 27° at Malmö, 37° at Berlin and Wroclaw.

After rising to between 55° and 53° over Ireland and England generally it is falling again rather decidedly.

WIND

W³ (WSW to WNW) over our Islands, moderate on our northeast coast, strong to a strong gale elsewhere; Strong from W. in the west of France, and a gale from SSW. over the countries lying to the eastward of the North Sea.
Fresh to strong gales from between SW. and W. have been felt over the greater part of the Kingdom during the past 24 hours.

Very changeable and unsettled all over our Islands and their neighbourhood - temporarily bright in some places. Squally and rainy elsewhere, with hail and lightning in the northwest.

WEATHER

Rough rainy weather has been prevalent in all districts, snow in the Hebrides. The falls were heavy in the south, and very heavy in the extreme north of our Islands. Bright Sunshine 0-1 hr at Stromway, none at the other stations.

SEA

High on all exposed parts of our coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of settled weather, but rather of very changeable conditions, with winds (and occasional gales) from between SE and NW.

FORECASTS

For the 24 hours ending at NOON on 9TH DEC^R, 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
ft 0	SCOTLAND NORTH	W ^{ly} winds, strong to a gale; colder, cold showers.	ft 6	SCOTLAND WEST	<p>W^{ly} and NW^{ly} gales; squally, cold rain and hail showers. Some lightning in places.</p> <p>At Noon yesterday to districts 2, 3, and 5 "Hoist South Cone".</p> <p>The signals are flying on all coasts.</p>
ft 1	SCOTLAND EAST		ft 7	ENGLAND N.W.	
ft 2	ENGLAND N.E.	<p>W^{ly} winds, strong; squally, showery, colder.</p> <p>W^{ly} gales and strong squally winds; colder, rain at times.</p>	ft 8	ENGLAND S.W.	
ft 3	ENGLAND EAST		ft 9	IRELAND NORTH	
4	MIDLAND COUNTIES		ft 10	IRELAND SOUTH	
ft 5	ENGLAND SOUTH		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*.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.58	44	40	SSW	6	c	4	Valencia ...	29.68	55	54	SW	6	rg	6
Sumburgh Head ...	28.94	44	43	SSW	5	o	6	Scilly ...	30.00	54	53	SSW	7	rg	5
Stornoway ...	28.92	46	45	WSW	3	p	4	Jersey ...	30.17	52	50	SW	3	o	3
Aberdeen ...	29.13	48	46	SW	4	oggy	5	Hurst Castle ...	30.03	51	49	SW	5	gp	3
Shields ...	29.44	44	43	SSW	5	8	2	Dungeness ...	30.03	48	46	W	5	rg	4
Ardrossan ...	29.23	51	51	SSW	8	r	7	North Foreland ...	30.04	48	45	SW	4	o	3
Malin Head ...	29.24	51	50	SW	6	o	6	London (Westminster) ...	29.98	51	46	WSW	3	o	#
Belmullet ...	29.41	53	51	WSW	5	o	#	Yarmouth ...	29.91	44	41	SSW	4	c	3
Holyhead ...	29.57	52	51	SW	8	ogm	7	Rochefort ...	30.30	45	42	H	3	o	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information will appear tomorrow.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 9th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.		Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.
		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 ...	29.60	33	SSE	6	0	29.66	+0.06	24	24	-2	SE	6	S	#	0	#	34	18	0.08		
	Hernösand ...	29.19	35	S	8	r	29.29	-1.15	36	35	+1	S	6	r	#	r	#	37	32	0.87		
	Stockholm ...	29.22	36	SSE	4	r	29.29	-2.26	37	36	0	S	2	0	#	r	#	37	32	0.63		
	Wisby ...	29.28	37	S	6	r	29.36	-3.1	37	36	0	S	4	b	#	r	#	37	34	0.43		
	Karlstad ...	29.01	38	S	6	c	29.16	+0.05	36	34	-1	S	4	c	#	r.c	#	#	#	0.28		
	Bodo ...	29.00	40	SE	8	c	29.15	+0.03	38	34	+6	SE	6	b	1	c	#	39	28	-		
	Christiansund ...	28.57	37	S	2	0	28.83	+1.6	38	36	-4	SSE	2	0	3	0	#	42	36	0.39		
	Skudesnaes ...	28.74	39	S	6	0	28.58	-1.5	40	39	-4	S	8	r	6	0	#	44	36	#		
	Færder (Christiania Fjord)	28.89	41	SSE	4	0	29.99	+0.14	40	37	+1	SSE	6	0	4	0	#	41	37	0.35		
	Skagen (The Scaw)	28.99	36	SW	4	bc	29.05	+0.08	39	36	+2	SW	6	0	2	bc	#	39	32	0.12		
Fanø ...	29.06	37	SW	5	c	28.99	-0.03	41	39	-2	SSW	6	c	#	c	#	43	34	0.39			
	Sumburgh Head	28.25	39	W	3	bc	28.45	-0.01	38	37	-2	NNE	3	r	6	bc	#	43	36	0.06		
	Stornoway ...	28.38	37	W	5	ry	28.74	+1.2	40	39	+4	NNW	7	ry	7	sp.rsq	0.1	44	35	0.75		
	Wick ...	28.39	38	SW	3	0	28.57	-0.06	38	36	+3	NNW	5	bepfu	2	0	#	41	33	0.17		
	Nairn ...	28.50	36	W	3	S	28.72	-0.03	40	38	+4	NNW	4	p.r.s	4	s	#	42	31	0.42		
	Aberdeen ...	28.58	35	SSW	7	crsq	28.70	-1.3	41	37	+6	W	9	bcqu	4	bcq.rsq	2.0	41	33	0.04		
	Leith ...	28.73	39	WSW	5	0	28.87	-0.05	42	40	+7	WSW	3	cm	#	0	#	43	32	0.25		
	Shields ...	28.90	40	SW	4	0	28.91	-1.5	41	40	+3	SW	5	c	2	rsp	#	41	35	0.05		
	Spurn Head ...	29.07	38	WSW	6	c	29.02	-1.6	42	40	+4	W	6	cq.p	5	q.r.sq.p	#	42	34	0.06		
	York ...	29.05	39	W	4	cq.rsp	29.07	-1.0	43	40	+6	W	6	bc	#	rsp.c	0.9	46	36	0.03		
	Loughborough ...	29.23	37	SW	6	bc	29.24	-0.08	40	36	+3	W	5	bq	#	p.cq.bq	#	53	36	0.01		
BRITISH ISLANDS.	Ardrossan ...	28.79	44	W	9	cq.rshl	28.96	-0.01	44	43	+5	WNW	8	cq.r.s	5	t.q.rshl	#	44	36	0.24		
	Malin Head ...	28.82	45	NNW	9	c.rh.q	29.09	+1.6	42	41	+2	WNW	8	cq.rh	8	r.h.q	#	46	39	0.56		
	Belmullet ...	29.24	43	NNW	7	bcq.p	29.34	+3.2	45	40	+4	WNW	5	0	#	bc.bq.p	#	45	35	0.10		
	Donaghadee ...	29.01	38	WSW	6	cq.p	29.12	-0.02	40	40	+6	WNW	8	b	6	cq.p	#	41	33	0.25		
	Liverpool (Bidston)	29.15	41	WSW	8	0	29.22	-0.01	43	40	+2	WSW	8	0	8	q.h.t.s	#	44	35	0.09		
	Holyhead ...	29.22	44	NNW	8	cq.p	29.29	+0.02	43	40	+2	W	8	cq	7	q.h.t.s.p	#	44	38	0.02		
	Parsonstown ...	29.32	39	W	2	bc	29.47	+1.2	38	36	+3	W	2	b	#	p.cq.p	1.8	42	34	0.25		
	Valencia ...	29.55	45	W	3	c.h.q.p	29.69	+1.8	45	40	+2	NNW	8	bcq.p	6	c.p.h.q	1.7	47	40	0.26		
	Roche's Point ...	29.53	42	NNW	5	cq.p	29.59	+0.08	42	40	+2	W	5	c	4	q.cq	#	44	38	0.20		
	Pembroke (St. Ann's Hd.)	29.37	47	W	7	c	29.49	+0.08	46	43	+1	W	7	cq	6	c	1.9	48	40	0.03		
	Scilly ...	29.59	48	NNW	9	cq	29.63	+0.02	48	45	-3	NNW	8	cq	6	cq	3.1	57	40	0.45		
	Prawle Point ...	29.53	44	NNW	8	0	29.56	-0.00	44	39	-4	NNE	5	cq.p	5	q.h.t.p	#	46	39	0.05		
	Jersey (St. Aubin's)	29.62	48	W	6	c	29.59	-0.06	48	43	-5	NNW	6	cq	5	q.h.t.p	#	53	42	0.07		
	Hurst Castle ...	29.46	45	W	6	cp	29.47	-0.03	43	41	-4	W	5	c.p	3	cp	#	49	41	0.03		
	Dungeness ...	29.39	42	NNW	6	bc	29.40	-0.01	40	38	-8	W	5	c	4	cq.bc	#	49	39	0.01		
	North Foreland	29.38	39	SW	5	b	29.36	-0.03	39	37	-7	WSW	5	bc	3	c.b	#	46	36	-		
	London (Brixton) ...	29.37	39	W	4	bc	29.38	-0.02	38	35	-5	WSW	3	bc	#	h.p.c	0.7	44	36	-		
	Oxford ...	29.37	39	WSW	4	b	29.36	-0.05	37	35	-4	WSW	3	b	#	p.bq	#	43	37	0.04		
	Cambridge ...	29.29	39	WSW	6	bc	29.30	-0.05	40	37	-3	SW	5	b	#	bcq	2.8	44	36	-		
	Yarmouth ...	29.24	42	WSW	4	b	29.21	-0.07	38	36	-5	WSW	5	bc	3	c.bq	#	44	35	-		
GERMANY & HOLLAND.	Cuxhaven ...	29.19	38	SW	3	b	29.20	+0.01	35	35	-6	SW	6	bc	#	b	#	45	34	0.08		
	Berlin ...	29.36	42	SW	4	0	29.47	-2.2	34	33	-3	SW	3	b	#	0	#	43	32	0.39		
	Wiesbaden ...	#	#	#	#	#	29.51	-2.4	38	37	-3	W	2	0	#	#	#	46	37	0.35		
	Munich ...	29.65	36	Z	0	r	29.63	-3.8	36	34	+9	SW	6	bc	#	r	#	36	27	0.39		
	The Helder ...	29.20	43	WSW	7	bc	29.15	-0.07	43	41	-3	WSW	7	r	4	bc	#	46	43	0.08		
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	29.43	-0.00	36	35	-12	SW	5	bc	#	b	#	50	33	0.28		
	Cape Gris Nez ...	29.39	46	W	6	bc	29.38		45	39		W	6	c	6	bc	#	52	39	-		
	Paris ...	29.63	46	W	4	bc	29.60	-1.2	38	37	-10	SW	3	bc	#	bc	#	57	38	0.16		
	Brest ...	29.76	50	W	6	c	29.71	-0.06	45	44	-8	W	6	c	7	c	#	55	37	0.20		
	Lorient ...	29.78	50	W	6	r	29.75	-0.03	45	44	-10	W	5	r	5	r	#	57	43	0.12		
	Rochefort ...	29.85	53	W	7	0	29.83	-1.4	48	45	-6	NNW	5	0	#	r.0	#	55	45	0.24		
	Belfort ...	29.63	45	SSW	8	r	29.62	-3.8	39	37	0	WSW	7	r	#	r	#	45	36	0.32		
	Lyons ...	29.87	41	SSW	4	0	29.82	-3.7	41	39	+4	SSW	7	0	#	0	#	44	37	0.28		
	Nice ...	29.84	48	SW	2	0	29.60	-5.2	50	40	+3	W	6	b	#	0	#	55	45	-		
	Perpignan ...	30.04	49	SW	2	0	29.91	-3.5	52	46	+4	NNW	4	b	#	0	#	55	38	-		
PENIN-SULA.	Biarritz ...	30.03	59	SW	6	r	30.01	-1.6	54	50	+1	W	7	r	7	r	#	59	48	0.12		
	Corunna ...															#	#					
	Lisbon ...	30.39	56	W	2	bc	30.28	-1.9	57	55	+5	W	3	0	#	bc	#	59	52	-		
	Azores (P. Delgada)	30.65	59	NE	4	0	30.59	-0.09	57	54	-1	NE	2	0	2	0	#	63	55	-		

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 1.5 hrs;

WEATHER CHARTS

FOR Thursday, 9th December, 1897.

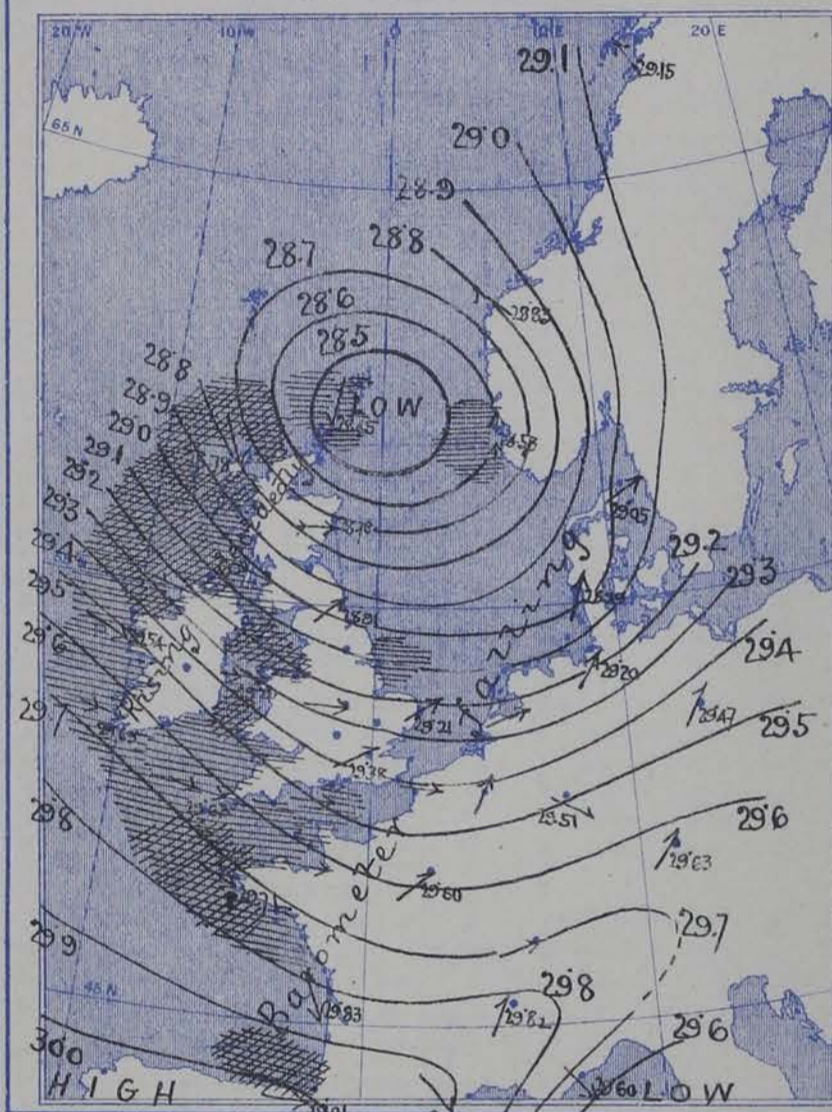
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Force above 10 →→→ ; Force 5 to 7 →→ ; Force 8 to 10 →→→ ; Force 1 to 4 →→ ; Calm ○

SEA—Rough ■■■ ; High ■■■■

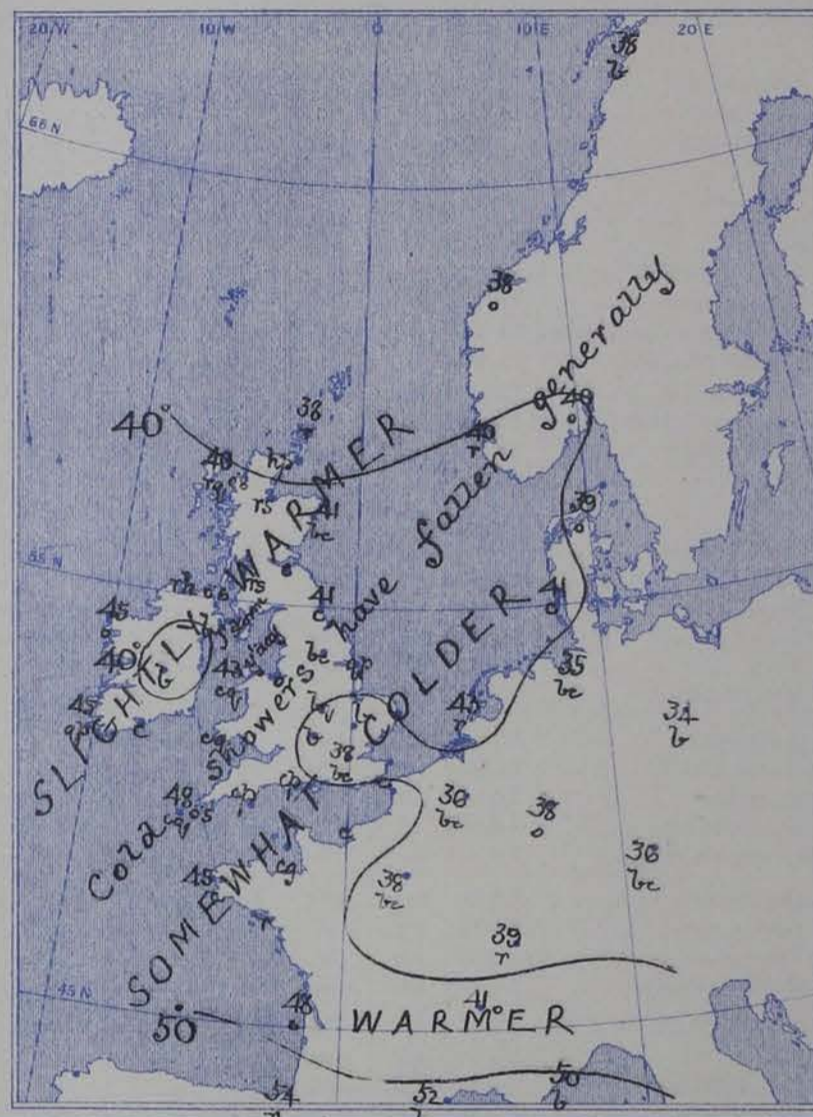


TEMPERATURE & WEATHER.

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WEATHER—Shown by Letters of the Beaufort Scale.

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		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, Above 30.0 in: over the Spanish Peninsula, and above 29.6 in: over South Germany.
Lowest, Below 28.5 in: in a well marked depression, between Lumburg Head and Rudesnaes.
Gradients steep for W to NW winds almost all over our Islands, rather steep for S winds over Scandinavia.
Barometer rising decidedly in Ireland and Scotland, and also in Norway, changing but little elsewhere.

TEMPERATURE

Highest, ^{57° at Lisbon} 54° to 50° over the southern and southern coast of France, 48° at Scilly, 45° at Valencia (Ireland), and Belmullet.
Lowest, 34° at Berlin, and below 40° over the inland parts of the Continent generally; 37° at Oxford, 38° in London, and at Lancaster.
 A sharp frost has occurred on the grass in London during the night.

WIND

SW to NW over England and Wales, W to NW in Scotland and Ireland, and still blowing a gale at our northern and western stations and a strong breeze in the Channel. On the eastern shores of the North Sea it is strong from S and SE. The gale has again been very severe on our northwestern, and strong on our western and northern coasts.

WEATHER

Fair over Germany, France, and the southeastern half of England, very unsettled in the west and north, with squalls of snow, hail, or cold rain. Cold showers have again been very general; thunder and lightning have occurred at many northwestern stations; Very strongly marked halos in some places. Bright Sunshine varied from 1 to 3 hours generally.

SEA

Very high in the northwest, and rough in exposed places generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north shows some tendency to fill up, but the W and NW gales are not likely to moderate quickly, although they show a slight decrease in force on our western coasts.

FORECASTS

For the 24 hours ending at NOON on 10TH DEC^R 1897.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	NW ² gales, moderating later, with squalls of snow and hail.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W and NW ² winds, strong to moderate; some cold showers. Sharp frost tonight.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 2.
5	ENGLAND SOUTH	W winds, strong to moderate; fair. Very cold tonight.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N° 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NW ² gales, moderating slowly; some cold showers, bright intervals. Very cold tonight.
9	IRELAND NORTH	
10	IRELAND SOUTH	
WARNINGS		At 3.10 pm yesterday to districts 0, 1, and 6. "Hoist North Cone". The South Cone will come down elsewhere at Noon today.

Notes.—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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes	28.71	41	39	WNW	6	0	5	Valencia	29.50	47	42	N	9	cqy	7
Sumburgh Head	28.47	41	38	W	5	bc	6	Scilly	29.60	48	45	WNW	9	cqy	7
Stornoway	28.48	37	36	WNW	5	p	5	Jersey	29.61	45	45	W	7	c	5
Aberdeen	28.71	35	32	SW	5	bcqy	3	Hurst Castle	29.47	46	43	W	5	cp	3
Shields	28.98	39	36	SW	4	c	2	Dungeness	29.42	47	45	W	6	cqy	5
Ardrossan	28.85	44	41	WNW	6	?	5	North Foreland	29.36	43	40	WNW	4	c	3
Malin Head	28.85	41	39	W	9	rqy	7	London (Westminster)	29.38	42	39	WNW	4	bc	#
Belmullet	29.21	45	40	WNW	7	bc	#	Yarmouth	29.24	43	39	W	5	c	3
Holyhead	29.20	41	38	WNW	8	cqyrs	7	Rochefort	29.87	55	53	W	7	r	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning very unsettled, rough and squally over the whole of our Islands and the neighbouring parts of Continental Europe, with snow in the north and northwest, rain elsewhere, and lightning at Ardrossan; fair and quiet over the southern and eastern countries. Snow graupel (soft hail), or cold rain falling later over the northwestern and western countries generally, thunder and lightning in the northwest of Great Britain. Very strong lunar halo in London at 11 pm.

Temperatures falling decidedly over Scotland and Ireland, risen fast over France, slightly over Norway. Morning readings highest 57° at Malta and Algiers and exceeding 50° at many of the stations on the southern and western coasts of Europe; 53° at Jersey, 51° at Scilly. Lowest 10° at Hermannstadt, 13° at Moscow, below 20° over almost the whole of Russia; 26° at Chaparanda, 29° at Bovenmunde, and between 35° and 40° over the northern parts of Great Britain. Falling still further over our Islands later, and fall extending to the Continent.

Wind W¹ to NW¹ over our Islands, SW¹ to S³ over the countries lying to the eastward of the North Sea; strong in force generally but blowing a hard gale in the western coasts of the British Isles, and a fresh gale over Denmark and the south of Norway. A gale from Snd and Wnd springing up in Scotland later. Light and variable breeze over Russia, southeastern, and southern Europe all day.

Barometer highest (1) 30.68 in: over the Azores, and exceeding 30.2 in: over the Spanish Peninsula and southwest of France; (2) 30.5 in: and more to 30.2 in: over Russia and southeastern Europe. Lowest, below 28.5 in: over the Shetland Islands. Gradient very steep over the British Isles and northwestern Europe. Inclined to rise in Ireland later, but a new and deep depression approaching the north of Scotland from the westward.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Friday, 10th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of 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.	Hours of Bright Sun- shine.	TEMP.		Rainfall.
							At 32° and M.S.L.	Dry Bulb.	Dirac.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.						Change since Yester- day.	Dirac.		Max.	Min.
Ins.		°					Ins.	Ins.	°	°	°								°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.88	23	SE	6	S	30.01	+3.5	19	19	-5	SE	6	0	#	S	#	34	19	0.35	
	Hernösand ...	29.53	35	S	7	T	29.75	+4.6	36	35	0	S	6	0	#	T	#	36	34	0.35	
	Stockholm ...	29.68	37	SE	2	0	29.69	+4.0	37	36	0	SE	4	0	#	0	#	39	34	0.04	
	Wishby ...	29.23	35	S	4	C	29.71	+3.5	35	34	-2	S	4	C	#	C	#	37	34	0.08	
	Karlstad ...	29.32	37	SE	4	T	29.45	+2.9	37	35	+1	SE	2	T	#	T	#	#	#	0.32	
	Bodo ...	29.36	36	ESE	6	B	29.42	+2.7	36	32	-2	ESE	6	C	1	B	#	38	30	-	
	Christiansund ...	28.95	41	SE	1	0	29.11	+2.8	41	38	+3	SE	1	C	3	0	#	41	37	-	
	Skudesnaes ...	28.80	42	SE	6	T	29.05	+4.7	41	39	+1	ESE	4	0	4	T	#	45	36	#	
	Færder (Christiania Fjord)	29.10	41	SSE	6	0	29.27	+2.8	43	41	+3	SSE	4	0	4	0	#	43	39	0.35	
	Skagen (The Scaw)	29.12	39	SSW	7	0	29.33	+2.8	39	38	0	SW	4	bc	1	0	#	39	37	0.12	
Fanø ...	29.22	42	WSW	4	C	29.36	+3.7	41	40	0	WSW	4	T	#	C	#	43	39	0.39		
BRITISH ISLANDS.	Sumburgh Head	28.77	40	H	3	C	29.03	+5.8	39	38	+1	H	1	C	4	T.C	#	41	35	0.24	
	Stornoway ...	29.05	41	WNW	6	T	29.13	+3.5	34	34	-6	Z	0	0	0	T.C.	#	44	32	0.50	
	Wick ...	28.92	38	WNW	2	C	29.12	+5.5	39	37	0	W	1	C	1	C	#	41	34	0.06	
	Nairn ...	29.03	40	H	1	0	29.17	+1.5	36	35	-4	Z	0	bm	1	om	#	45	35	0.25	
	Aberdeen ...	28.95	40	WNW	9	bcq	29.21	+5.1	35	34	-6	SW	2	bc m	2	p.cq	#	44	35	0.03	
	Leith ...	29.11	40	W	3	bc	29.22	+3.5	40	38	-2	Z	0	m	#	bc	#	47	37	-	
	Shields ...	29.15	42	SW	3	B	29.31	+4.0	39	38	-2	SW	1	cm	2	bc. b	#	46	38	-	
	Spurn Head ...	29.26	43	W	6	B	29.38	+3.6	37	35	-5	SW	4	C	3	bc	#	44	36	-	
	York ...	29.24	43	W	6	B	29.36	+2.9	38	36	-5	S	1	0	#	0. bc	#	45	38	-	
	Loughborough ...	29.41	41	WNW	3	T	29.45	+2.1	36	35	-4	S	2	cu	#	c.q. p. b.	#	44	36	0.02	
GERMANY & HOLLAND.	Ardrossan ...	29.19	44	W	7	bcq	29.19	+2.3	43	43	-1	S	3	0	2	q.p.	#	47	42	0.07	
	Malin Head ...	29.27	45	HW	8	cq	29.06	-0.3	37	37	-5	SE	4	T	3	q.p.	#	44	36	0.12	
	Belmullet ...	29.44	45	WNW	5	cq	28.92	-6.2	43	43	-2	S	5	T	#	bc. cq	#	45	40	0.32	
	Donaghadee ...	29.35	40	WNW	8	bc	29.21	+0.9	40	40	0	SSW	5	0	4	bc	#	43	35	0.01	
	Liverpool (Bidston)	29.36	44	W	8	bc	29.34	+1.2	38	36	-5	S	3	0	?	cp	#	45	38	0.01	
	Holyhead ...	29.46	44	WNW	8	cq	29.25	-0.4	44	43	+1	S	4	gmt	3	c. cq	#	44	40	0.03	
	Parsonstown ...	29.60	40	W	1	0	29.03	-1.4	44	43	+6	S	2	or	#	bc. o	#	44	37	0.16	
	Valencia ...	29.73	48	HW	4	cq	29.10	-5.9	53	50	+8	SW	5	o g m	5	cq. p. cq	#	53	42	0.52	
	Roche's Point ...	29.72	43	HW	5	cq	29.15	-1.4	50	49	+8	WSW	5	or	4	cq. r	#	50	40	0.50	
	Pembroke (St. Ann's Hd.)	29.61	45	HW	6	B	29.23	-2.6	47	47	+1	SSW	6	T	5	c. b	#	47	42	0.39	
FRANCE & BELGIUM.	Scilly ...	29.72	48	HW	6	C	29.32	-3.1	54	53	+6	SW	6	T	6	T.C	#	54	44	0.24	
	Prawle Point ...	29.66	41	WNW	4	B	29.45	-1.1	46	46	+5	SSW	5	T	5	rh. p. b. r	#	47	37	0.18	
	Jersey (St. Aubin's)	29.67	44	W	5	bcq. rh	29.61	+0.2	47	46	-1	SSW	5	omr	4	cq. rh. p	#	50	43	0.17	
	Hurst Castle ...	29.57	42	WNW	3	B	29.51	+0.4	48	46	+5	SW	4	p	2	cp. b	#	48	41	0.02	
	Dungeness ...	29.48	41	W	4	bc	29.56	+1.6	44	42	+4	W	2	C	2	b. bc	#	47	34	-	
	North Foreland	29.47	39	WSW	4	B	29.58	+2.2	36	34	-3	SW	2	bc	2	c. b	#	44	34	-	
	London (Brixton) ...	29.48	40	WNW	4	B	29.54	+1.6	37	35	-1	SSE	2	0	#	bc. b. v	#	46	34	-	
	Oxford ...	29.54	37	WSW	4	B	29.49	+1.3	37	36	0	S	3	q. r	#	B	#	45	35	-	
	Cambridge ...	29.46	41	WSW	5	0	29.51	+2.1	34	33	-6	SW	1	0	#	c. o	#	46	32	-	
	Yarmouth ...	29.32	41	W	4	B	29.48	+2.7	35	34	-3	SW	3	bc	3	c. b	#	43	33	-	
PENIN- SULA.	Cuxhaven ...	29.27	40	SW	7	T	29.45	+2.5	40	39	+5	SW	5	0	#	T	#	41	35	0.04	
	Berlin ...	29.55	35	Z	0	B	29.65	+1.8	34	33	0	SSW	2	T	#	B	#	43	30	-	
	Wiesbaden ...	#	#	#	#	#	29.76	+2.5	33	33	-5	SW	2	0	#	#	#	43	33	0.04	
	Munich ...	29.66	34	W	4	C	29.82	+1.9	33	32	-3	SW	3	0	#	C	#	39	36	0.04	
	The Helder ...	29.30	45	W	6	0	29.49	+3.4	44	42	+1	W	4	0	2	0	#	45	43	-	
	Brussels ...	#	#	#	#	#	29.69	+2.6	35	34	-1	SSW	2	B	#	0	#	42	34	-	
	Cape Gris Nez ...	29.47	45	WNW	6	bc	29.56	+1.8	45	40	0	W	3	C	4	bc	#	46	34	-	
	Paris ...	29.64	39	WSW	2	B	29.79	+1.9	32	32	-6	S	2	m	#	B	#	46	31	-	
	Brest ...	29.78	49	HW	5	C	29.62	-0.9	50	50	+5	S	5	f	5	T	#	50	39	-	
	Lorient ...	29.81	46	WNW	6	T	29.65	-1.0	50	50	+5	SSW	6	T	5	T	#	50	41	0.16	
GERMANY & HOLLAND.	Rochefort ...	29.83	49	WNW	5	C	29.82	-0.1	48	46	0	W	4	0	#	C	#	54	45	0.16	
	Belfort ...	29.69	34	W	4	0	29.87	+2.5	34	33	-5	WSW	3	m	#	0	#	42	33	0.16	
	Lyons ...	29.78	42	ESE	1	0	29.97	+1.5	35	35	-6	SW	1	0	#	0	#	46	35	0.16	
	Nice ...	29.61	48	WNW	4	B	29.73	+1.3	43	33	-7	HR	4	B	3	B	#	55	43	-	
	Perpignan ...	29.89	49	HW	4	0	29.99	+0.9	48	44	-4	H	2	0	#	0	#	57	43	0.08	
	Biarritz ...	30.00	52	HW	6	T	29.96	-0.5	52	50	-2	WSW	5	T	6	T	#	55	48	0.20	
PENIN- SULA.	Corunna ...	30.30	57	WSW	3	T	30.30	+0.2	57	54	0	WNW	4	C	#	T	#	61	55	-	
	Lisbon ...	30.49	57	SE	1	0	30.37	-2.2	57	54	0	SE	1	0	2	0	#	61	55	-	
	Azores (P. Delgada)																				

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southampton 0.1 hrs;

WEATHER CHARTS

FOR *Friday, 10th December, 1897.*

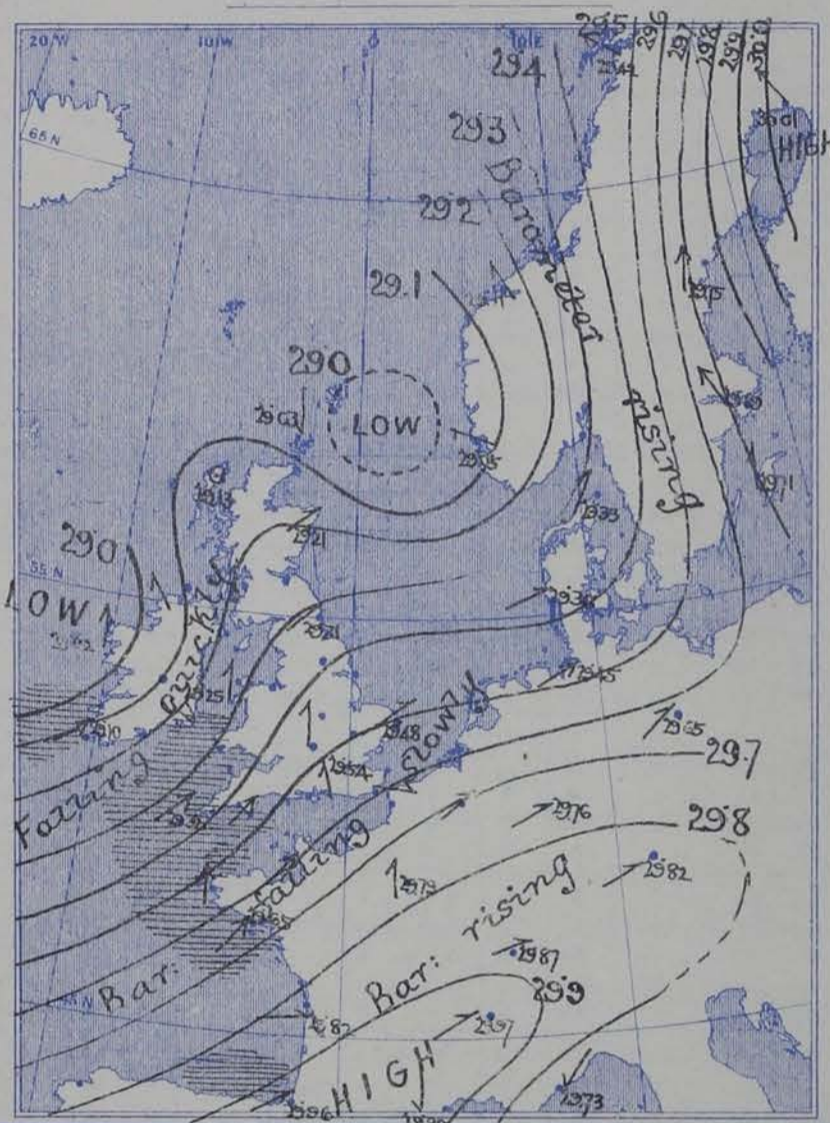
BAROMETER, WIND AND SEA.

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 ≡≡≡

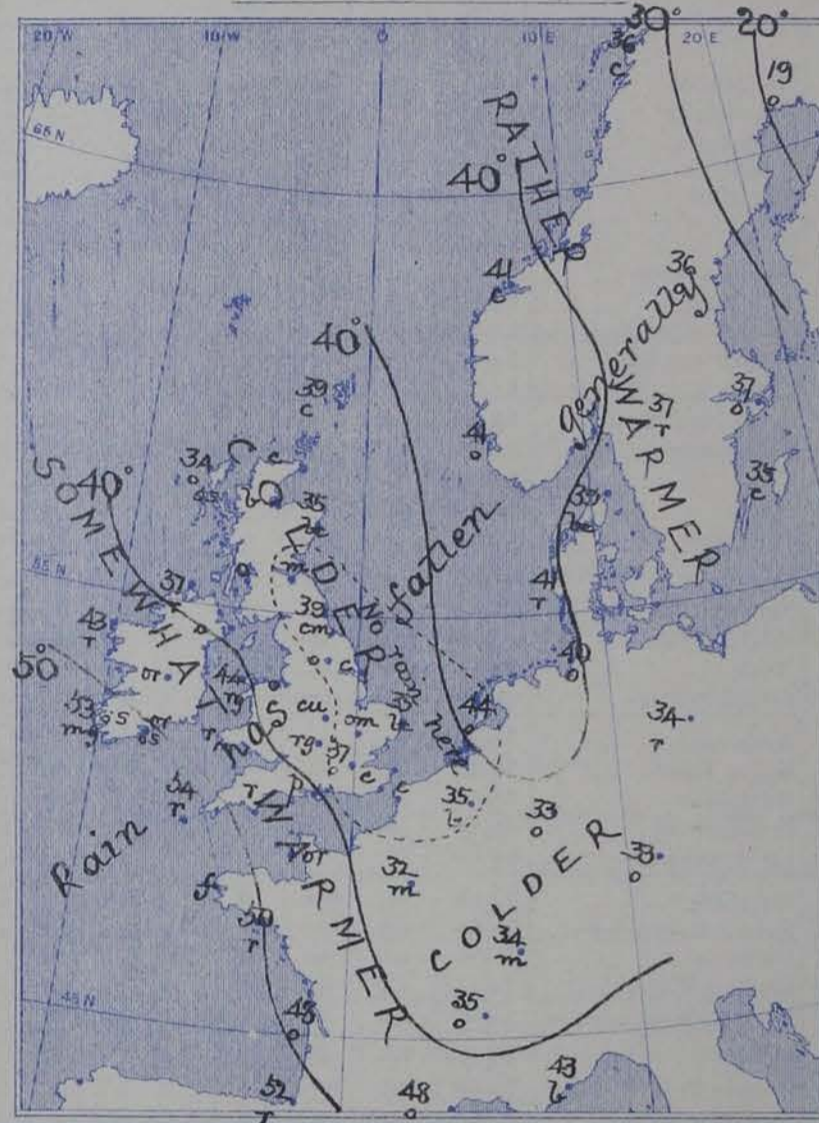


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30.3 in: to 30.0 in: over the Spanish Peninsula and (2) exceeding 30.0 in: over Finland.

Lowest, (1) About 29.0 in: in a depression between the Fjellands and the coast of Norway; (2) Below 29.0 in: in a new one advancing to our north-east coast from the SW.

Gradients steep for S winds over Scandinavia, rather steep for S and SW winds over Iceland and England.

Barometer falling rapidly over Iceland, rising over Scandinavia and the eastern shores of the North Sea. The fall in the west is spreading E-wards.

TEMPERATURE

Highest, 54° to 50° at our extreme southwestern stations, 52 to 48° on the west coast of France.
Lowest, (1) 19° at Kaparanda, 35° at Kisumu; (2) 32° to 35° over Germany and Central France; (3) 36° to 38° over Central England.
 A very sharp front occurred on the ground over our inland countries during the night.

WIND

Has died down to a calm over Scotland, and backed very abruptly to between SE. and SW. over Ireland and England and is increasing quickly in force. Over the Continent it is light and variable. The NW³ gales so prevalent in the north and west yesterday died out very suddenly at night.

WEATHER

Temporarily clear in Scotland, dull and very unsettled over Ireland and England, with rain in many places. The change since last night has been immensely sudden. Rain has recommenced in the west and north, and is spreading eastwards rapidly. From 5 to 6 hrs of Bright Sunshine were recorded at our south coast stations yesterday, 5 hrs at Lancaster and 4 hrs at Aberdeen.

SEA

Has gone down quickly in the north but is rough and rising in the west and southwest.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression (off our western coast) has arrived very suddenly and appears to be moving northwards. It is likely to cause very rough weather generally and our southwestern, western, and northern coasts have again been warned.

FORECASTS

For the 24 hours ending at NOON on 11TH DEC^R 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
ft 0	SCOTLAND NORTH	S ^w and SW ^w winds, strong to a gale. squally, rainy.	ft 6	SCOTLAND WEST	Same as N ^o 0 and 1.
ft 1	SCOTLAND EAST		ft 7	ENGLAND N.W.	
2	ENGLAND N.E.	ft 8	ENGLAND S.W.		
3	ENGLAND EAST	ft 9	IRELAND NORTH		
4	MIDLAND COUNTIES	ft 10	IRELAND SOUTH		
5	ENGLAND SOUTH	S ^w and SW ^w winds, increasing greatly in force; squally, rainy, milder.			At 10:10 am today to districts 0, 1, and 6 to 10 "Hoist South Cone".
			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**.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	28.70	41	40	SE	8	7	5	Valencia ...	29.72	44	42	NW	6	cgy	6
Sumburgh Head ...	28.60	39	39	N	3	7	6	Scilly ...	29.66	44	44	NW	7	7y	7
Stornoway ...	28.91	44	42	NW	7	c	8	Jersey ...	29.64	47	43	W	6	bc	5
Aberdeen ...	28.84	44	40	NW	9	cgy	5	Hurst Castle ...	29.50	44	41	W	4	cp	3
Shields ...	29.03	45	42	SW	5	bc	2	Dungeness ...	29.42	46	42	W	5	b	4
Ardrossan ...	29.09	45	44	W	7	byp	5	North Foreland ...	29.40	42	39	NW	5	c	3
Malin Head ...	29.19	44	43	NW	8	bcgy	8	London (Westminster) ...	29.41	47	41	W	3	c	#
Belmullet ...	29.55	45	38	NW	5	bc	#	Yarmouth ...	29.24	43	40	W	5	c	3
Holyhead ...	29.38	44	41	NW	8	c	7	Rocheport ...	29.82	50	45	NW	5	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine over Central Russia on the one hand, and over the west and south of Spain on the other, as well as over some part of north Germany, the north of France, and the east of England; very variable, however, over Europe as a whole, very squally and rough over the British Islands, with rain or snow in many places, as well as over Central Europe, and in the north of Italy. Clearing up in many parts of the United Kingdom later, but becoming rainy again in the west and north subsequently.

Temperature changing very fitfully over Western Europe, falling over Russia. Morning readings highest 57° at Malta and Lisbon, 54° at Biarritz, 48° at Jersey and Scilly, 45° at Belmullet. Lowest (1) -2° F. at Moscow, +5° at Kharkov, 8° at Archangel; below 30° over Finland and the western part of Russia, Poland, and Hungary; 34° at Berlin, 38° at Paris, in London, and at Harrogate. Falling fast over our Islands later, but no permanent change noted.

Wind cyclonic in direction and strong to a gale in force over all the northwestern countries - NW to W over the British Islands, the north of France, SW over the Netherlands, S over the Baltic, Sweden and Finland, SE over Lapland and the northwest of Norway. Light over Russia and over the Spanish Peninsula, but cyclonic and strong over the southeast of France, the north of Italy, and Corsica. The NW gales continuing in the north and west of the British Islands till night, but wind subsiding over English Channel.

Barometer highest (1) 30.59 in. at P. Delgada (Azores) and 30.3 in. to 30.0 in. over the Spanish Peninsula and north of Africa, (2) 30.4 in. and more to 30.0 in. over Russia generally. Lowest (1) 28.5 in. and less, in a depression covering the whole of northwestern Europe and having its centre near Sumburgh Head; (2) below 28.6 in. in a small system over the Gulf of Genoa. Rising quickly over our Islands and Scandinavia later (the northern depression filling up).

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 11th December, 1897.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.				BAROMETER.	TEMPERATURE.	WIND.								TEMP.			
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
	Ins.	°					Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.																				
Haparanda ...	30.15	11	SE	4	0		30.12	+1.1	6	6	-13	SE	4	bc	#	0	#	23	6	-
Hernösand ...	29.83	32	SSE	4	0		29.85	+1.0	32	32	-4	S	4	r	#	0	#	36	30	-
Stockholm ...	29.77	36	SE	2	0		29.74	+0.5	35	33	-2	SE	2	0	#	0	#	39	34	-
Wisby ...	29.75	35	SSE	4	0		29.54	-1.7	32	31	-3	SSE	4	r	#	0	#	36	32	-
Karlstad ...	29.56	38	ESE	4	r		29.62	+1.7	36	35	-1	SW	4	0	#	r	#	#	#	0.63
BRITISH ISLANDS.																				
Bodö ...	29.55	37	ESE	7	c		29.65	+1.23	32	29	-4	ESE	6	b	1	c	#	37	30	-
Christiansund ...	29.28	41	ESE	2	bc		29.42	+1.31	41	37	0	E	2	c	3	bc	#	41	39	-
Skudesnaes ...	29.23	42	SSE	4	r		29.36	+1.31	42	40	+1	SE	4	c	4	r	#	45	36	#
Færder (Christiania Fjord)	29.45	42	SSE	5	0		29.54	+1.27	40	39	-1	SE	4	0	3	0	#	43	39	0.04
Skagen (The Scaw)	29.47	41	SSW	2	0		29.50	+1.7	40	37	-1	SSW	2	bc	0	0	#	41	39	0.04
Fanö ...	29.38	36	SSE	4	c		29.26	-1.0	36	35	-5	ESE	6	c	#	c	#	41	34	0.04
Sumburgh Head	29.11	38	Z	0	0		29.21	+1.18	41	40	+2	SE	2	r	4	0	#	43	36	0.05
Stornoway ...	29.01	39	Z	0	0		29.18	+0.5	40	39	+6	Z	0	0	0	r.0	0.0	41	33	0.40
Wick ...	29.01	41	SSW	2	0		29.14	+0.2	37	37	-1	HW	1	or	0	0	#	43	34	0.14
Nairn ...	29.02	37	Z	0	0		29.18	+0.1	37	36	+1	WSW	1	r	1	0	#	37	31	0.18
Aberdeen ...	29.04	41	S	3	ogp		29.16	-0.5	37	36	+2	W	4	ogp	4	ogm.p	0.0	43	35	0.73
Leith ...	28.95	42	ESE	2	0		29.16	-0.6	40	39	0	WSW	3	om	#	0	#	43	38	0.04
Shields ...	28.95	40	ESE	4	r		29.09	-2.2	41	40	+2	W	5	op	3	or	#	41	35	0.37
Spurn Head ...	28.93	42	SSE	5	r		29.14	-2.4	42	41	+5	WNW	5	c	4	r	#	43	36	0.09
York ...	28.92	41	SSE	2	rm		29.19	-1.7	42	39	+4	WNW	2	0	#	rm	0.0	43	36	0.23
Loughborough ...	28.95	44	SSE	2	c		29.26	-1.9	43	41	+7	WNW	6	cqpu	#	or.cqpu	#	46	36	0.35
Ardrossan ...	28.89	39	NNE	3	om		29.22	+0.3	43	43	0	W	4	cp	3	rm.om	#	44	36	0.12
Malin Head ...	28.81	43	S	3	r		29.31	+1.25	44	43	+7	WN	6	cp	4	r	#	44	35	0.40
Belmullet ...	29.01	46	WNW	5	cqpu		29.54	+1.62	44	39	+1	N	4	0	#	cqpu	#	50	39	0.05
Donaghadee ...	28.83	44	S	2	0		29.32	+1.1	40	40	0	WNW	5	c	3	od	#	45	39	0.49
Liverpool (Bidston)	28.89	45	SW	3	r		29.28	-0.6	43	41	+5	WNW	8	c	5	r	#	47	38	0.89
Holyhead ...	28.87	48	WSW	5	gmr		29.36	+1.1	44	42	0	W	7	cq	6	cp.gmr	#	50	41	0.24
Parsonstown ...	28.90	47	W	1	c		29.54	+1.51	37	35	-7	Z	0	b	#	op.c	0.5	50	37	0.18
Valencia ...	29.13	51	W	7	ogq		29.64	+1.54	44	41	-9	W	5	cp	5	cqpu.g	1.6	53	42	0.23
Roche's Point ...	29.11	50	W	4	c		29.64	+1.49	42	40	-8	WNW	3	b	3	p.c	#	52	41	0.05
Pembroke (St. Ann's Hd.)	28.98	52	WNW	7	bc		29.55	+1.32	46	43	-1	WSW	6	bq	5	o.bc	0.3	52	40	0.25
Scilly ...	29.18	53	W	7	cq		29.67	+1.35	50	47	-4	WNW	6	cp	6	cp.cq	1.3	55	46	0.17
Prawle Point ...	29.16	50	W	7	0		29.59	+1.4	44	41	-2	WNW	6	bc	6	gt.gp	#	52	40	0.49
Jersey (St. Aubin's)	29.27	53	W	7	cq		29.62	+1.01	49	45	+2	WNW	6	bcq	6	t.c.rq	#	54	46	0.68
Hurst Castle ...	29.09	50	W	5	b		29.48	-0.3	46	42	-2	W	5	bc	3	rm.p	#	52	45	0.42
Dungeness ...	29.06	51	SSW	6	c		29.30	-2.6	46	44	+2	W	6	cp	5	rg.cq	#	51	43	0.28
North Foreland	29.05	45	S	7	r		29.23	-3.5	45	44	+9	W	7	og	5	r	#	46	34	0.34
London (Brixton) ...	29.02	42	WSW	2	0		29.33	-2.1	45	42	+8	WN	5	bc	#	og.cq	0.0	49	37	0.14
Oxford ...	29.00	48	WSW	4	r		29.38	-1.1	43	40	+6	W	3	bc	#	r	#	49	37	0.19
Cambridge ...	28.99	44	S	3	0		29.26	-2.5	44	41	+10	W	5	c	#	ogp	0.0	47	32	0.23
Yarmouth ...	29.05	42	SSE	8	r		29.15	-3.3	43	41	+8	WNW	6	cqpm	4	rg	#	44	33	0.25
GERMANY & HOLLAND.																				
Cuxhaven ...	29.48	36	SSW	3	bc		29.18	-2.7	32	32	-8	SE	4	s	#	bc	#	41	32	-
Berlin ...	29.68	36	SSW	3	0		29.47	-1.8	33	32	-1	SE	3	0	#	0	#	37	30	0.08
Wiesbaden ...	#	#	#	#	#		29.35	-4.1	36	33	+3	S	2	0	#	#	#	39	33	0.28
Munich ...	29.74	30	SW	4	bc		29.51	-3.1	37	36	+4	SW	5	bc	#	bc	#	37	28	0.12
The Helder ...	29.30	39	S	4	r		29.04	-4.5	45	44	+1	WSW	3	0	2	r	#	45	36	0.43
FRANCE & BELGIUM.																				
Brussels ...	#	#	#	#	#		29.23	-4.6	46	45	+11	WSW	4	r	#	r	#	46	33	0.59
Cape Gris Nez ...	29.09	48	SSW	6	r		29.25	-3.1	49	48	+4	W	7	0	7	r	#	49	45	0.47
Paris ...	29.36	43	SE	3	r		29.47	-3.2	49	44	+17	W	4	c	#	r	#	49	32	0.39
Brest ...	29.38	54	WNW	6	c		29.73	+1.1	50	47	0	WN	5	bc	6	c	#	55	45	0.24
Lorient ...	29.43	53	W	6	r		29.80	+1.5	50	49	0	W	6	c	6	r	#	57	41	0.39
Rochefort ...	29.54	55	WSW	7	r		29.83	+0.1	51	50	+3	WNW	5	b	#	r	#	55	48	0.51
Belfort ...	29.51	36	W	2	0		29.52	-3.5	44	42	+10	SW	6	0	#	0	#	44	34	0.43
Lyons ...	29.82	35	S	4	r		29.76	-2.1	44	41	+9	SE	1	0	#	r	#	48	34	0.24
Nice ...	29.86	45	Z	0	c		29.68	-0.5	48	42	+5	Z	0	b	1	c	#	54	39	-
Perpignan ...	29.90	50	SW	2	0		29.91	-0.8	57	51	+9	WN	5	0	#	0	#	57	44	-
Biarritz ...	29.89	58	W	5	0		30.02	+0.6	57	53	+5	W	5	r	6	0	#	57	43	0.20
PENIN- SULA.																				
Corunna ...	30.28	55	WNW	3	b		30.30	-0.0	55	53	-2	WNW	2	0	#	b	#	61	54	0.08
Lisbon ...	30.23	59	ESE	4	c		30.10	-2.7	61	59	+4	SSW	4	c	4	c	#	64	57	-

For Explanation of Columns, see bottom of last page.

+ Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport.....hrs;

WEATHER CHARTS

FOR

Saturday, 11th December, 1897.

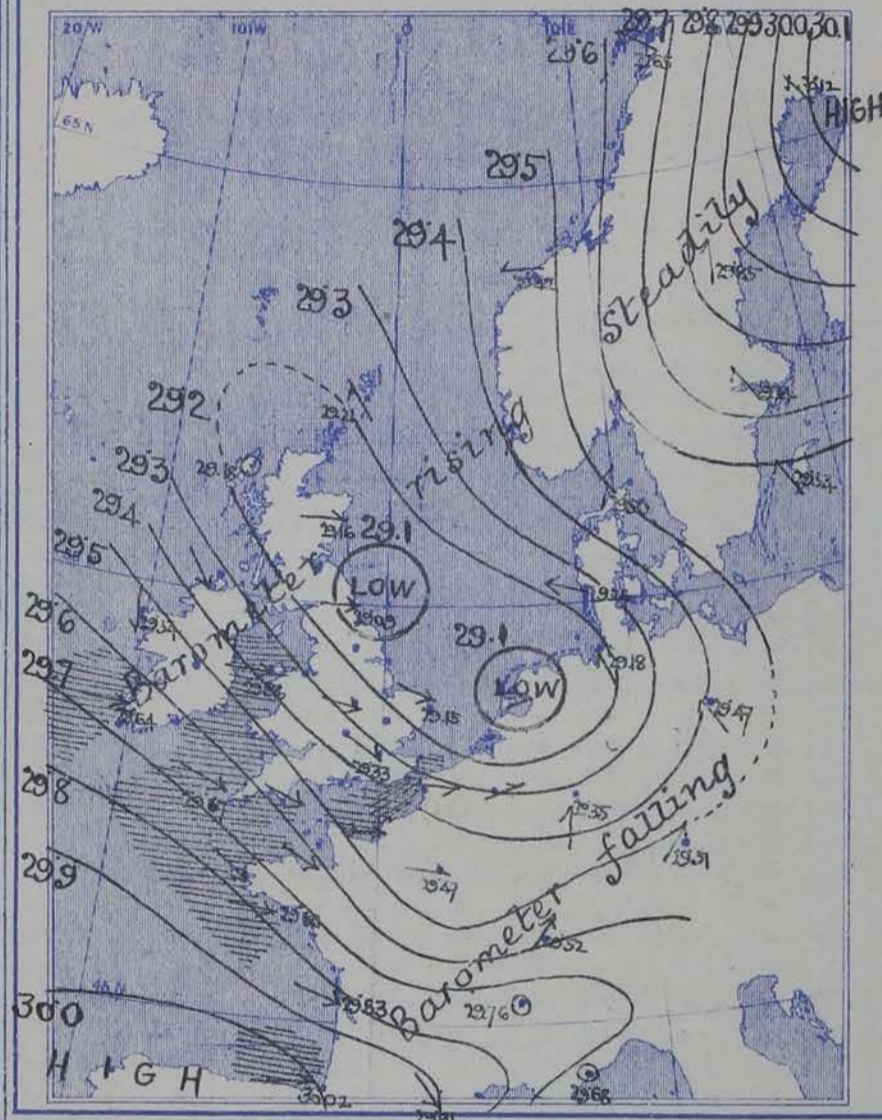
BAROMETER, WIND AND SEA.

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 ≡≡≡

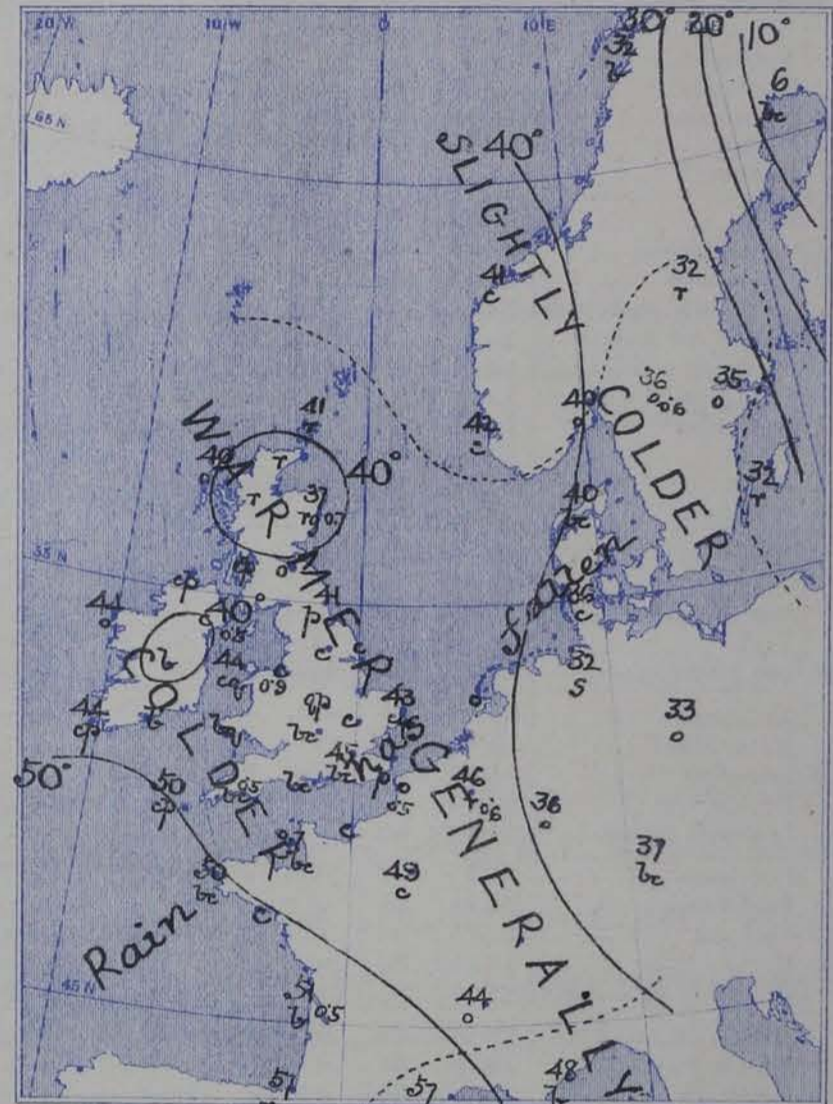


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and more to 30.0 in: (1) over Finland and the north of Sweden, and (2) over the Spanish Peninsula.
Lowest, 29.0 in: to 29.2 in: in an elongated and complex depression lying over Scotland, the northeastern and eastern parts of England and the Netherlands.
Gradient rather steep for NW winds over the United Kingdom and France, moderate for SE winds on the eastern shores of the North Sea.
Barometer rising in all parts of our Islands, falling over Denmark and the south of France.

TEMPERATURE

Highest, 57° at Biarritz, 50° at Lorient, Brest, and Lally, 46° at Hunt Castle, 44° at Valenceia (Ireland).
Lowest, (1) 6° at Haparanda, 32° to 36° at the other Swedish stations, 33° to 37° at the Finnish stations, 37° in the northeast and east of Scotland.
 The extremes recorded during the past day, have not been very decided.

WIND

SE, and moderate on the eastern shores of the North Sea, but W³ and NW³ strong over our Islands and France, and blowing a gale at several of the western and southern stations.
A "violent hurricane" is reported to have occurred at Lyons during the night.

WEATHER

Continues very changeable generally - clear in some places, dull and squally or rainy in others. A measureable quantity of rain has fallen very generally, and in some localities the amounts have been large. There was more than an hour Sunshine on our extreme southern coast yesterday; in the east, north, and south there was none.

SEA

Still very rough in the west and south, moderate in the east.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The NW² wind will probably moderate very slowly on new coasts, but there is no indication at present of any other change.

FORECASTS

For the 24 hours ending at NOON on 12th DEC^R 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
ft 0	SCOTLAND NORTH	W ^{ly} and NW ^{ly} winds; colder, rain at times.	ft 6	SCOTLAND WEST	Same as Nos 3 to 5
ft 1	SCOTLAND EAST		ft 7	ENGLAND N.W.	
ft 2	ENGLAND N.E.		ft 8	ENGLAND S.W.	
ft 3	ENGLAND EAST	W ^{ly} and NW ^{ly} winds, strong; passing showers, bright intervals.	ft 9	IRELAND NORTH	NW ^{ly} to SW ^{ly} winds, moderating; unsettled, rain at times.
ft 4	MIDLAND COUNTIES		ft 10	IRELAND SOUTH	
ft 5	ENGLAND SOUTH				
			At 3.15 pm yesterday to districts 2, 3, and 5		
			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**.  ^{all coasts.}

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*.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.21	44	45	S	6	r	4	Valencia ...	29.02	52	49	WSW	8	c	6
Sumburgh Head ...	29.12	37	36	NNE	1	o	4	Scilly ...	29.21	54	52	WSW	7	cp	5
Stornoway ...	29.04	41	40	SE	3	o	4	Jersey ...	29.28	53	53	SW	5	r	4
Aberdeen ...	29.10	35	34	W	1	ogm	2	Hurst Castle ...	29.12	52	51	SSW	6	rm	3
Shields ...	29.10	40	38	S	3	o	2	Dungeness ...	29.31	45	44	S	6	og	5
Ardrossan ...	28.93	44	44	E	4	rm	2	North Foreland ...	29.29	44	43	S	5	r	4
Malin Head ...	28.80	41	41	S	4	r	2	London (Westminster) ...	29.17	45	43	SSE	5	og 2	#
Belmullet ...	28.84	48	47	W	4	cgp	#	Yarmouth ...	29.29	44	43	SSE	4	r	4
Holyhead ...	28.91	50	48	SW	4	cpg	3	Rocheport ...	29.70	54	54	W	5	r	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and bright over Central Russia and over the greater part of Spain; very changeable and unsettled both over our Islands and northwestern Europe, and also over Italy and the southeast of France. Rain falling generally at our western and southern stations, sky temporarily clear on our east coasts; thunder and lightning reported at Leningrad. Snow reported over Austria-Hungary. Rain falling very generally over our Islands and their neighbourhood during day - heavily at several of our own stations.

Temperatures fallen fast over Finland, changed very fitfully over the British Islands and their neighbourhood. Morning readings highest 59° to 50° on the southern shores of the Mediterranean, 57° at Leningrad, 54° at Liffy, 53° at Valencia (Ireland); lowest 4° F. at Khabarovsk, 8° at Archangel, 9° at St. Petersburg and Moscow; rather above 32° over Central Europe as a whole, 34° to 37° over the major part of Great Britain. Exceeding 50° at many of our western stations during day, and rising over our Islands generally.

Wind SE and E (anticyclonic) over Russia, SW and NW (anticyclonic) over Spain. Cyclonic complicated circulations prevalent over northern Europe and the United Kingdom - the direction being SW to SE over our Islands. Other complex cyclonic circulations over Italy and the Gulf of Genoa, and Hungary - a W gale at Naples, and a N gale at Langerhans. S gales on our southeast coasts later, and W winds, strong to a gale, on our western coasts.

Barometer highest (1) 30.6 in. and more to 30.0 in. over the northern half of Russia; (2) 30.3 in. and more to 30.0 in. over Spain. Lowest (1) Below 29.0 in. in a new depression lying off our northwest coasts, and in a very shallow one (filling up) between the Shetlands and Norway; (2) below 29.6 in. in a depression over Italy, and in secondary systems over Corsica and over Hungary. The disturbances off our northwest coasts advancing eastwards later, and undergoing great modifications both in size and depth.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 12th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			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.)	Max.		Min.
Ins.		°				Ins.	Ins.	°	°	°								°	°	Ins.	
SCANDINAVIA.	Haparanda ...	30.05	4	E	2	c	30.02	- .10	4	4	- 2	2	0	s	#	c	#	12	1	-	
	Hernösand ...	29.90	33	NE	4	s	29.96	+ .11	21	20	- 11	N	2	s	#	s	#	33	?	-	
	Stockholm ...	29.82	32	2	0	o	29.91	+ .17	30	28	- 5	E	2	0	#	o	#	36	30	-	
	Wisby ...	29.78	31	SSE	4	o	29.82	+ .28	32	31	- 0	ESE	4	0	#	o	#	32	28	-	
	Karlstad ...	29.76	33	N	2	b	29.85	+ .23	30	30	- 6	NE	2	0	#	b	#	41	41	-	
	Bodö ...	29.71	28	E	6	b	29.73	+ .08	26	23	- 6	E	6	s	2	b	#	32	23	-	
	Christiansund ...	29.60	41	ESE	3	c	29.71	+ .29	37	34	- 4	ESE	2	6	3	c	#	41	37	-	
	Skudesnaes ...	29.51	41	ENE	2	c	29.63	+ .27	40	36	- 2	ESE	4	0	3	c	#	42	39	#	
	Færder (Christiania Fjord)	29.53	39	E	4	o	29.76	+ .22	32	31	- 8	NE	5	0	3	o	#	40	32	-	
	Skagen (The Scaw)	29.60	37	SE	5	o	29.68	+ .18	36	33	- 4	ESE	5	0	1	o	#	40	36	-	
BRITISH ISLANDS.	Fanö ...	29.30	35	E	6	r	29.51	+ .25	35	35	- 1	2	0	r	#	r	#	37	34	0.12	
	Sumburgh Head	29.33	43	SE	3	o	29.45	+ .24	40	39	- 1	S	3	r	5	r, o	#	44	37	0.17	
	Stornoway ...	29.32	36	2	0	b	29.47	+ .29	35	35	- 5	2	0	b	0	p, b	0.0	40	32	0.25	
	Wick ...	29.30	37	NW	2	r	29.43	+ .29	34	33	- 3	WNW	1	6	0	r	#	39	34	0.06	
	Nairn ...	29.36	37	WSW	2	o	29.51	+ .33	35	33	- 2	W	1	6	1	o	#	39	32	0.06	
	Aberdeen ...	29.37	37	WNW	2	org	29.53	+ .37	32	31	- 5	SW	1	bm	2	rg, org	0.0	38	30	0.34	
	Leith ...	29.44	40	WSW	2	b	29.55	+ .39	35	35	- 5	WSW	1	6	#	b	#	46	32	-	
	Shields ...	29.43	40	W	1	b	29.62	+ .53	36	35	- 5	WSW	2	c	2	b	#	44	34	-	
	Spurn Head ...	29.46	42	W	6	b	29.66	+ .52	36	35	- 6	SW	3	6	3	b	#	44	35	-	
	York ...	29.48	42	WNW	2	b	29.66	+ .47	35	34	- 7	S	1	f	#	b	38	46	33	-	
GERMANY & HOLLAND.	Loughborough ...	29.61	39	WNW	3	b	29.70	+ .44	35	34	- 8	E	1	org	#	cp, b, o	#	46	35	0.02	
	Ardrossan ...	29.46	44	WNW	5	b, p	29.56	+ .34	42	42	- 1	SSW	3	0	2	p, b	#	45	40	0.01	
	Malin Head ...	29.49	43	W	5	cp	29.56	+ .25	37	37	- 7	SSE	3	c	2	cp	#	45	37	0.07	
	Belmullet ...	29.64	44	WSW	3	c	29.63	+ .09	40	37	- 4	S	3	0	#	b, c	#	45	35	0.15	
	Donaghadee ...	29.54	38	WNW	5	b	29.63	+ .31	34	33	- 6	W	3	6	1	b	#	44	30	-	
	Liverpool (Bidston)	29.58	44	W	4	b	29.67	+ .39	38	36	- 5	SSW	1	0	1	b	#	45	36	0.04	
	Holyhead ...	29.61	44	WNW	5	b	29.65	+ .29	41	39	- 3	E	1	0	1	b	#	45	39	-	
	Parsonstown ...	29.66	38	W	1	b	29.64	+ .10	30	30	- 7	2	0	6	#	b	39	44	30	-	
	Valencia ...	29.74	45	W	4	cp	29.64	.00	37	36	- 7	E	1	6	4	cp	39	47	36	0.11	
	Roche's Point ...	29.75	42	WNW	3	b	29.67	+ .03	37	36	- 5	N	2	6	3	b	#	47	36	-	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.70	46	NW	5	b	29.64	+ .09	42	42	- 4	ESE	2	rg	3	b	39	42	41	0.02	
	Scilly ...	29.78	50	W	5	b, cp	29.51	- .16	43	42	- 7	N	5	r	4	cp, b, cp	40	53	42	0.15	
	Prawle Point ...	29.77	46	WNW	5	c	29.57	- .02	45	44	+ 1	ESE	4	or	3	c, or	#	49	41	0.26	
	Jersey (St. Aubin's)	29.83	49	W	5	b, cp	29.61	- .01	50	49	+ 1	SSE	6	org	5	rg, b, cp	#	53	45	0.36	
	Hurst Castle ...	29.74	42	NW	1	b	29.65	+ .17	44	43	- 2	E	2	rm	2	b, b	#	48	41	0.12	
	Dungeness ...	29.64	44	W	6	c	29.75	+ .45	46	44	0	2	0	r	0	b, c	#	49	40	0.05	
	North Foreland	29.65	42	W	5	b, cp	29.78	+ .55	39	37	- 6	SW	2	0	2	b, cp	#	45	36	-	
	London (Brixton) ...	29.67	41	W	2	bm	29.75	+ .42	38	37	- 7	2	0	0	#	b, b	34	47	32	-	
	Oxford ...	29.72	37	WSW	3	b	29.71	+ .33	33	33	- 10	SW	1	ofg	#	g, b	#	47	30	-	
	Cambridge ...	29.63	41	W	2	b	29.74	+ .48	33	32	- 12	SW	1	om	#	g, b	#	47	30	-	
PENINSULA.	Yarmouth ...	29.48	42	WNW	6	b, cp	29.73	+ .58	35	34	- 8	SW	3	6	3	cp, b, cp	#	45	32	-	
	Cuxhaven ...	29.22	39	SW	2	r	29.60	+ .42	40	40	+ 8	W	4	0	#	r	#	41	32	0.78	
	Berlin ...	29.43	37	S	1	r	29.74	+ .27	42	40	+ 9	SW	4	0	#	#	#	43	33	0.32	
	Wiesbaden ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Munich ...	29.81	41	W	6	r	30.06	+ .55	39	36	+ 2	SW	4	0	#	r	#	45	36	0.04	
	The Helder ...	29.37	45	WNW	8	o	29.74	+ .70	43	41	- 2	W	4	6	3	o	#	46	43	-	
	Brussels ...	#	#	#	#	#	29.89	+ .66	36	36	- 10	S	1	c	#	b	#	47	35	-	
	Cape Gris Nez ...	29.64	48	WNW	7	c	29.71	+ .46	45	43	- 4	S	4	0	4	c	#	50	43	-	
	Paris ...	29.87	42	SSW	2	b	29.94	+ .47	38	38	- 11	SSE	2	r	#	b	#	50	35	0.04	
	Brest ...	29.88	51	NW	4	c	29.59	- .14	53	53	+ 3	SW	5	r	6	c	#	55	46	0.55	
GERMANY & HOLLAND.	Lorient ...	29.94	51	W	4	o	29.66	- .14	55	55	+ 5	SW	6	r	6	o	#	55	48	0.24	
	Rochefort ...	29.98	51	W	3	o	29.89	+ .06	54	52	+ 3	SW	5	0	#	o	#	54	48	0.12	
	Belfort ...	29.85	40	SSW	6	c	30.06	+ .54	40	38	- 4	W	4	0	#	c	#	45	32	0.08	
	Lyons ...	30.06	45	W	2	b	30.14	+ .38	37	36	- 7	S	1	c	#	b	#	53	36	0.04	
	Nice ...	29.85	48	2	0	b	30.05	+ .37	43	38	- 5	E	1	6	2	b	#	59	39	-	
	Perpignan ...	30.12	55	NW	1	b	30.16	+ .25	41	40	- 16	SW	1	0	#	b	#	63	39	-	
	Biarritz ...	30.08	54	WSW	4	b	30.02	.00	55	52	- 2	S	2	0	5	b	#	57	52	-	
	Corunna ...	30.12	61	SW	3	o	30.06	- .10	57	56	0	SW	3	0	3	o	#	68	50	-	
	Lisbon ...	30.24	56	WNW	1	o	30.25	- .05	55	52	0	E	1	0	#	o	#	61	53	-	
	Azores (P. Delgada)	30.05	59	W	1	c	30.06	- .04	58	55	- 3	NNE	4	6	3	c	#	64	57	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport...1.8 hrs;

WEATHER CHARTS

FOR SUNDAY, 12TH DEC^R 1897.

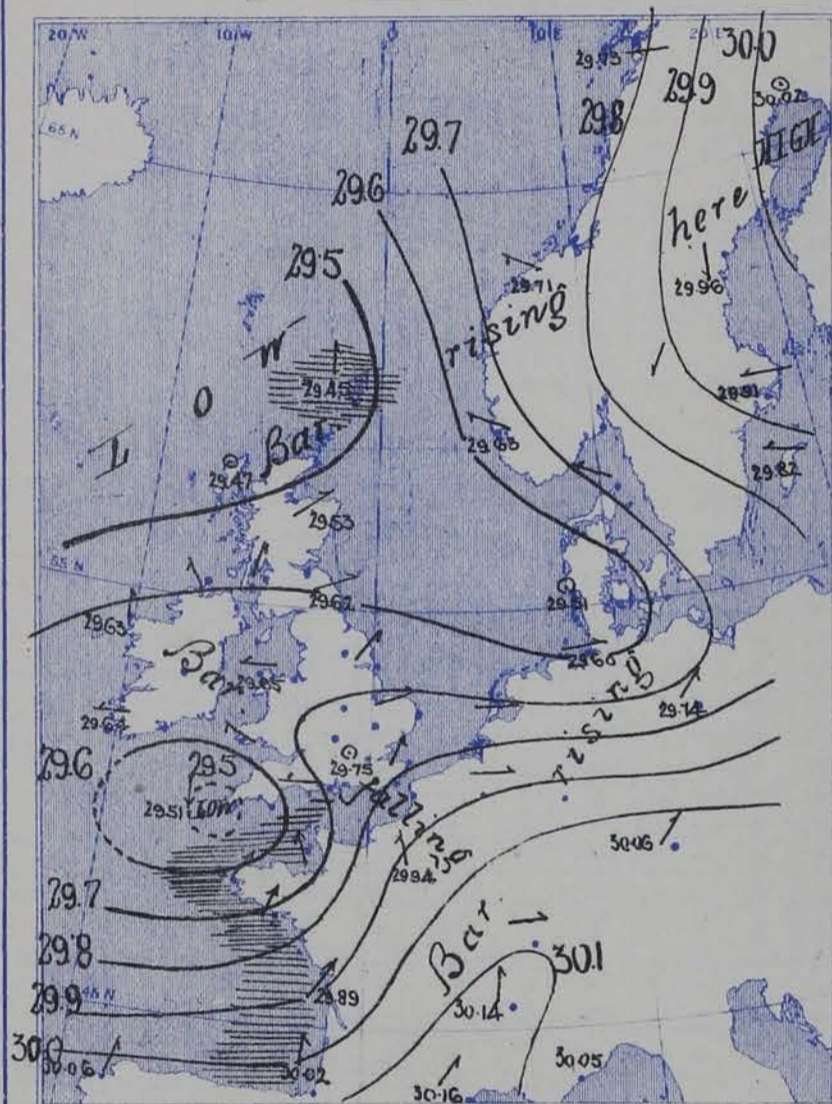
BAROMETER, WIND AND SEA.

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 ≡≡≡

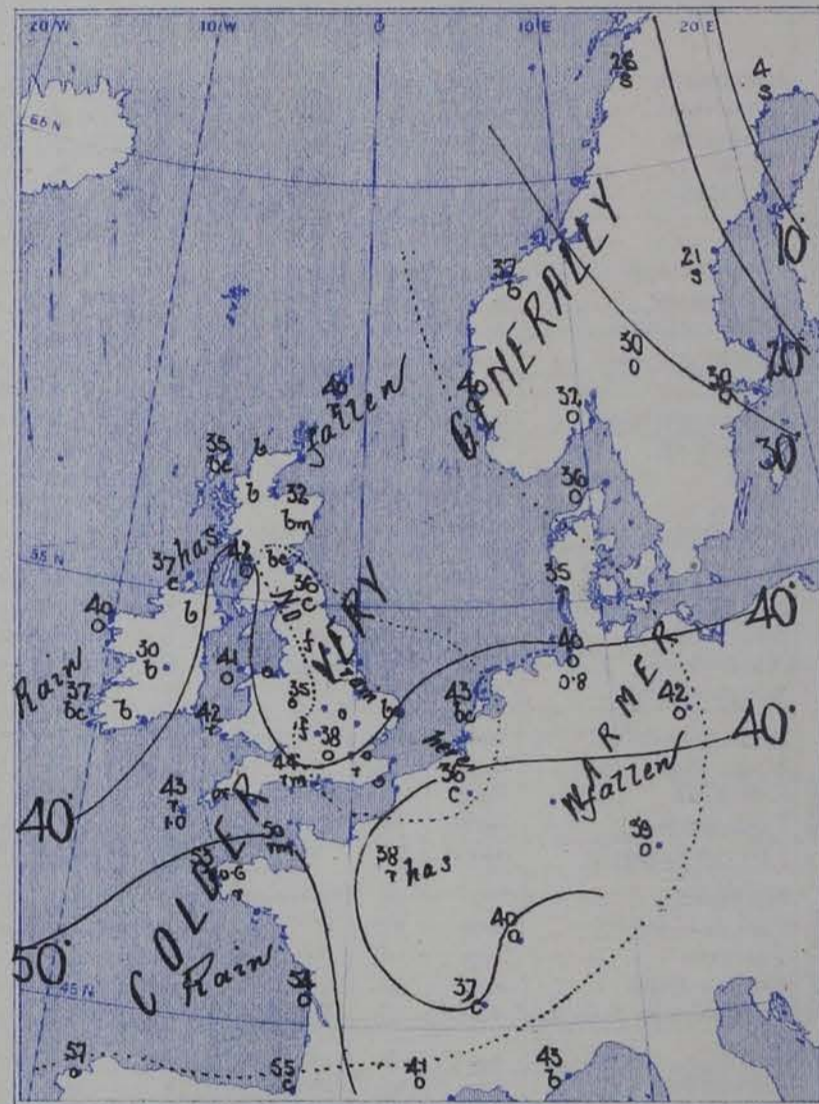


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards, over the southern part of the Spanish Peninsula; 30.0 in. and upwards over the Gulf of Bothnia.
 Lowest, 29.5 in. and less, in a shallow depression off the north of Ireland and also (apparently) in a well marked secondary system lying at the mouth of the English Channel.
 Gradients moderate over France, and North Germany, but slight elsewhere.
 Barometer rising generally, but falling locally in the south of England and the north of France.

TEMPERATURE

Highest, 57° at Comenra, 55° at Lorient, Biscaya, and Lisbon, 54° at Rochfort, and 53° at Brest.
 Lowest, 4° at Hafswander, 21° at Hemsland, and 26° at Rode; lowest in our Islands 30° at Loughsneaton, and 32° at Cambridge and Aberdeen.
 Frost occurred last night in many parts of the United Kingdom, the lowest readings reported being: (1) In the screen 30° at Aberdeen and Oxford; (2) On the grass 25° at Oxford.

WIND

Fresh to strong from the SW² in the coast of France and from the S² in the Channel Islands, E on the south coast of England and Ireland generally, but W at Bally.
 Light from between S. and W. on all the more northern parts of our Islands; SE or E in Scandinavia; W or SW over Germany and the east of France, variable in the south of France.

WEATHER

Fine in Ireland and the northern and eastern parts of Great Britain and the Netherlands.
 Dull in nearly all other parts of our area, with fog or mist over Central England, rain in the south of England and the north of France, and snow at Hafswander, Hemsland, and Rode.
 Since yesterday morning rain has fallen over nearly the whole of England and the neighbouring part of the Continent, as well as in the north of Scotland, the largest amounts being 1.0 in. at Bally, 0.8 in. at Copenhagen, and 0.6 in. at Brest. Some hail was seen last night at several of our southern stations, and a Corona at Spinn-Hoe.

SEA

Rough in the Bay of Biscay, and rather rough at Jersey and Loughsneaton Head, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 13TH DEC^R 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	

The SOUTH CONE is still flying in districts 2, 3, and 5

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.41	41	38	ESE	4	bc	3	Valencia	29.70	47	43	W	3	cp	3
Sumburgh Head	29.25	44	43	SE	2	r	4	Scilly	29.67	50	47	N	5	cp	6
Stornoway	29.26	39	38	NW	3	r	3	Jersey	29.78	53	47	W	5	bc	5
Aberdeen	29.30	36	35	WNW	4	orgg	4	Hurst Castle	29.66	47	43	W	5	bc	3
Shields	29.30	43	40	W	4	bc	3	Dungeness	29.54	48	44	W	6	bc	5
Ardrossan	29.37	45	44	WNW	6	bcpg	4	North Foreland	29.54	45	41	W	6	c	4
Malin Head	29.40	40	42	W	5	clp	4	London (Westminster)	29.55	49	43	WNW	4	bc	#
Belmullet	29.60	45	40	WNW	3	bc	#	Yarmouth	29.33	45	42	W	6	cp	4
Holyhead	29.55	45	42	WNW	6	c	5	Rocheport	29.97	54	50	NW	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine in the west and south of our Islands generally, but showery on our extreme southwest coast; dull on our northern and eastern coasts, with steady rain in the north of Scotland, and showers in many other localities. Cloudy or dull at most of the Continental stations, with rain in Sweden, northern Italy, and the southwest of France, and snow in Finland, as well as at Copenhagen and Kiev. Fog reported over Austria and the south and east of Germany. Some improvement taking place later in the north and east of our Islands, but steady rain setting in at night over the Channel and the north of France. Considerable quantities of rain and snow falling in North Germany.

Temperatures risen in France, the Netherlands, and all but the southwestern parts of our Islands, fallen elsewhere. Morning readings highest 59° at Palma and Algiers, 58° at Oran, and 57° at Tunis. Coruna, Barcelona, and Malta; above 50° at the Mediterranean and Spanish coast stations generally. Lowest 1° at Moscow, 5° at Archangel, 6° at Haparanda, and 7° at Kuopio and Plesenberg; below the freezing point in most parts of Germany, and Austria. Daily maxima below 40° in the northeast of Scotland, and below 45° on many other parts of our northern coast; thermometer exceeding 50° in the Channel Islands and west of France; reaching 63° at Perpignan, and 68° at Coruna. Frost occurring over our Islands at night.

Wind W or NW over the greater part of eastern and southern Europe, and strong in force on many parts of the English and Irish coasts, with a gale at Liverpool. Light to fresh from the SE in most of the northern, eastern, and central countries. Moderating later on our western coasts, but gale from the W springing up at the Hebrides.

Barometer highest 30.6 in. and upwards in an anticyclone lying over Northern Russia; 30.3 in. and upwards in another system lying off the southwest of Spain. Lowest 29.1 in. and less in two small depressions, — one lying over Holland and the other off the northeast of England. Depression subsequently moving eastwards and partially filling up; barometer rising in all parts of Western Europe.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on *Monday, 13th December, 1897.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.		
		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.	
		In.	°				In.	In.	°	°	°						°	°	In.		
SCANDINAVIA.	Haparanda ...	30.05	1	Z	0	c	30.03	+0.01	10	9	+6	SSE	2	0	#	c	#	?	-6	-	
	Hernösand ...	30.01	23	Z	0	0	30.00	+0.04	24	23	+3	Z	0	0	#	0	#	32	18	0.04	
	Stockholm ...	29.89	28	E	2	0	29.85	-0.06	33	32	+3	E	2	S	#	0	#	33	27	0.12	
	Wisby ...	29.79	33	ESE	4	S	29.80	-0.02	33	33	+1	SSE	4	0	#	S	#	34	30	0.04	
	Karlstad ...	29.88	29	ENE	2	0	29.86	+0.01	27	26	-3	NNE	4	c	#	0.5	#	#	#	-	
	Bodö ...	29.76	30	E	4	0	29.85	+0.12	34	31	+8	E	4	0	1	0	#	34	21	-	
	Christiansund ...	29.76	36	ESE	4	b	29.78	+0.07	33	30	-4	ESE	1	b	3	b	#	39	33	-	
	Skudesnaes ...	29.72	36	E	4	c	29.76	+0.15	36	32	-4	ENE	4	c	2	0.5	#	40	34	#	
	Færder (Christiania Fjord)	29.81	32	ENE	4	0	29.82	+0.06	31	30	-1	NNE	5	S	3	0	#	34	30	-	
	Skagen (The Scaw)	29.69	34	E	6	0	29.73	+0.05	33	32	-3	E	6	0	1	0	#	36	32	0.12	
Fanö ...	29.61	34	E	1	c	29.75	+0.24	33	33	-2	Z	0	b	#	c	#	37	32	-		
BRITISH ISLANDS.	Sumburgh Head	29.47	37	Z	0	0	29.49	+0.04	40	38	0	S	2	0	5	0	#	41	35	0.47	
	Stornoway ...	29.48	34	Z	0	b	29.22	-0.25	40	39	+5	SSE	5	1	5	c.b	0.6	41	29	0.06	
	Wick ...	29.48	33	Z	0	b	29.38	-0.05	41	39	+7	S	5	0	2	b	#	41	30	-	
	Nairn ...	29.54	32	Z	0	b	29.38	-0.13	36	34	+1	Z	0	0	1	b	#	48	25	-	
	Aberdeen ...	29.56	31	WSW	2	b.m	29.48	-0.05	42	39	+10	SSE	6	0.9	5	b.m	3.5	42	26	0.01	
	Leith ...	29.60	36	WSW	1	m	29.39	-0.16	39	37	+4	ESE	2	0	#	m	#	39	27	-	
	Shields ...	29.60	37	WSW	2	b.c	29.53	-0.09	36	35	0	SW	2	m	2	b.c	#	40	31	-	
	Spurn Head ...	29.62	38	WSW	3	b	29.60	-0.06	38	37	+2	SSE	5	0	4	f.b	#	38	31	-	
	York ...	29.61	33	S	1	b	29.56	-0.10	34	33	-1	ESE	2	1	#	0.6	0.0	41	25	0.08	
	Loughborough ...	29.66	29	W	1	f	29.60	-0.10	36	36	+1	SE	2	g.m	#	om.b.f.r	#	36	25	0.05	
GERMANY & HOLLAND.	Ardrossan ...	29.56	38	NE	1	b.m	29.28	-0.28	42	42	0	ESE	5	0	4	b.m	#	44	34	0.03	
	Malin Head ...	29.50	38	SSW	3	b	29.15	-0.41	43	43	+6	SSW	4	b.c	2	b.p	#	44	36	0.03	
	Belmullet ...	29.54	49	S	2	0	29.18	-0.45	45	42	+5	WSW	2	0	#	b.0	#	45	39	0.39	
	Donaghadee ...	29.57	33	WSW	3	b	29.27	-0.36	48	48	+14	SW	6	c	4	b.0	#	48	30	0.33	
	Liverpool (Bidston)	29.63	37	S	1	c	29.42	-0.25	40	39	+2	SE	4	0	3	c.m	#	41	34	0.01	
	Holyhead ...	29.62	41	SW	1	b	29.33	-0.32	47	46	+6	SSE	5	0	4	b	#	47	38	0.15	
	Parsonstown ...	29.57	36	Z	0	b	29.28	-0.36	45	43	+15	Z	0	c	#	b.r	6.0	47	29	0.27	
	Valencia ...	29.47	47	SSE	3	op	29.29	-0.35	47	43	+10	SW	3	c	5	b.p.l	3.8	51	35	0.59	
	Roche's Point ...	29.61	47	W	3	c	29.34	-0.33	48	47	+11	WSW	4	0	5	c.r	#	48	37	0.42	
	Pembroke (St. Ann's Hd.)	29.68	44	SW	3	b	29.41	-0.23	52	52	+10	SW	4	og	4	0.6	0.9	52	41	0.45	
FRANCE & BELGIUM.	Seilly ...	29.71	45	SW	1	c	29.46	-0.05	53	53	+10	SSW	5	0	4	c.p	1.3	53	42	0.75	
	Prawle Point ...	29.72	38	WSW	3	c	29.53	-0.04	52	52	+7	SSW	7	og	6	r	#	52	36	0.65	
	Jersey (St. Aubin's)	29.76	47	WSW	4	0	29.71	+0.10	51	50	+1	S	5	om	5	p.og	#	56	45	0.09	
	Hurst Castle ...	29.74	36	WSW	2	b	29.63	-0.22	50	48	+6	S	5	tm	3	r.b	#	50	34	0.40	
	Dungeness ...	29.56	40	WSW	5	c	29.75	-0.00	46	45	0	S	5	c	4	r.c	#	49	33	0.60	
	North Foreland	29.56	42	H	5	0	29.77	-0.01	44	43	+5	SE	4	0	3	r.0	#	45	34	0.67	
	London (Brixton) ...	29.67	37	H	2	c	29.70	-0.05	43	42	+5	SSE	2	og	#	ogfr.b	0.0	43	31	0.43	
	Oxford ...	29.76	33	ENE	2	b	29.60	-0.11	39	39	+6	SE	3	og	#	r.b	#	39	32	0.30	
	Cambridge ...	29.65	35	WSW	1	os	29.70	-0.04	34	34	+2	SE	2	og	#	ogfr	0.0	37	29	0.08	
	Yarmouth ...	29.56	39	H	1	0	29.74	+0.01	39	38	+4	S	3	b.c	3	r.0	#	41	29	0.18	
GERMANY & HOLLAND.	Cuxhaven ...	29.68	38	SW	3	0	29.77	+0.17	37	37	-3	WSW	2	b.c	#	or	#	41	36	0.20	
	Berlin ...	29.84	36	SE	1	0	29.73	-0.01	37	35	-5	WSW	6	0	#	0	#	43	36	0.08	
	Wiesbaden ...	#	#	#	#	#	29.97	-0.04	42	40	-2	W	2	b	#	#	#	45	41	0.39	
	Munich ...	29.94	39	E	2	0	30.02	-0.04	46	43	+7	SW	5	c	#	0	#	46	37	-	
	The Helder ...	29.56	41	E	1	r	29.82	+0.08	37	35	-6	S	1	b	1	r	#	45	37	0.12	
	Brussels ...	#	#	#	#	#	29.91	+0.02	40	39	+4	SSE	1	0	#	0	#	53	36	0.32	
	Cape Gris Nez ...	29.63	44	H	5	0	29.75	+0.04	41	39	-4	S	3	b.c	3	0	#	54	37	0.91	
	Paris ...	29.72	55	SW	5	c	29.90	-0.04	43	43	+5	SSE	2	m	#	c	#	55	38	0.16	
	Brest ...	29.77	49	W	3	c	29.62	+0.03	51	50	-2	S	5	1	5	c	#	55	45	0.12	
	Lorient ...	29.83	50	W	4	c	29.77	+0.11	54	54	-1	S	4	0	3	c	#	57	48	-	
FRANCE & BELGIUM.	Rochefort ...	29.84	55	WSW	6	r	29.93	+0.04	53	52	-1	S	3	1	#	r	#	57	55	0.12	
	Belfort ...	29.85	49	SW	5	r	30.03	-0.03	45	44	+5	W	3	1	#	r	#	50	36	0.24	
	Lyons ...	30.06	45	SSW	2	0	30.10	-0.04	41	41	+4	E	1	b	#	0	#	49	37	-	
	Nice ...	30.17	46	Z	0	b	30.18	+0.13	45	42	+2	E	1	c	2	b	#	54	41	-	
	Perpignan ...	30.10	50	Z	0	b.c	30.10	-0.06	50	48	+9	Z	0	0	#	b.c	#	61	41	-	
	Biarritz ...	30.01	58	SSW	3	0	30.01	-0.01	54	49	-1	S	4	c	4	0	#	63	52	-	
PENIN- SULA.	Corunna ...	#	#	#	#	#	29.91	+0.02	40	39	+4	SSE	1	0	#	0	#	53	36	0.32	
	Lisbon ...	30.18	56	S	3	0	30.15	-0.10	54	53	-1	SE	3	0	#	0	#	59	54	0.12	
	Azores (P. Delgada)	30.15	57	H	3	0	30.11	+0.05	59	54	+1	W	2	c	3	0	#	63	55	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport... 0.0 hrs;

WEATHER CHARTS

FOR Monday, 13th December, 1897.

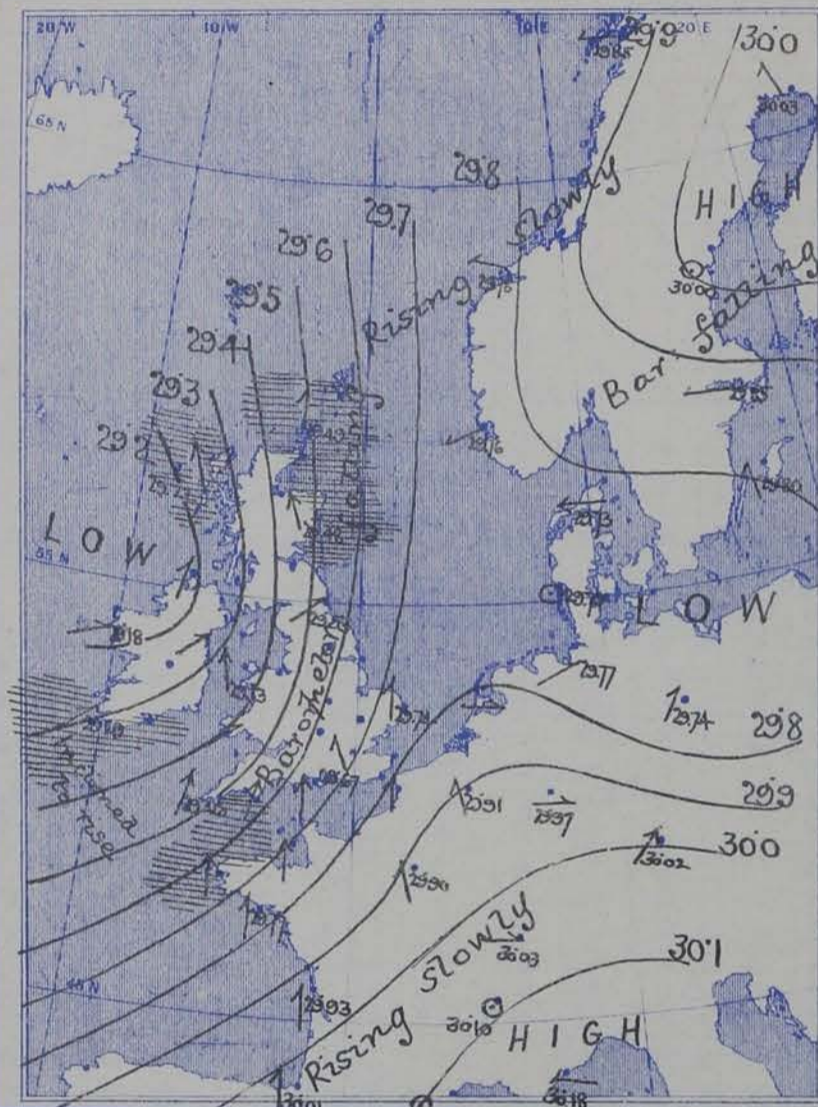
BAROMETER, WIND AND SEA.

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 ≡≡≡

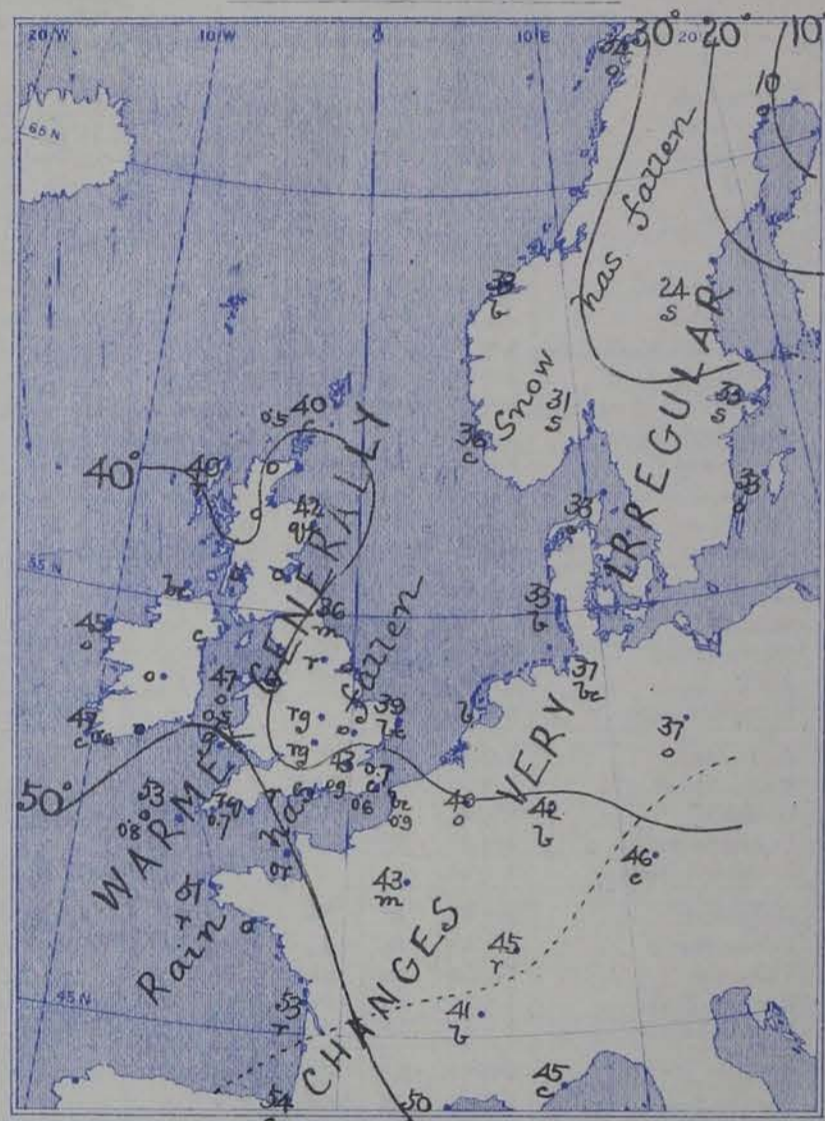


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881—95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 301 mi: and upwards over the southern part of France and the Spanish Peninsula; 300 mi: and upwards over the part of Bohemia.
Lowest, 292 mi: and less, in a depression off our extreme northwest coast; 298 mi: and less, in another disturbance over the Baltic.
Gradients rather steep over Great Britain, but moderate or slight elsewhere.
Barometer falling in most parts of our Islands, but inclined to rise again, on our extreme west and southwest coast, rising at most of the Continental stations, but falling in Sweden.

TEMPERATURE

Highest, 54° at Orient, Biarritz and Lisbon, 53° at Sicily and Rochester, and 52° at Kimbrok and Prowletkint.
Lowest, 10° at Haparanda, 24° at Hinnisand, 27° at Karlebad, and 31° at Jænder; lowest in our Islands 34° at York and Cambridge.
 Frost occurred last night in many parts of Great Britain, the lowest readings reported being (1) In the screen 25° at Kain and York and 26° at Loughborough; (2) On the grass 21° at Loughborough and 25° at Oxford.

WIND

S^3 over Great Britain, the Netherlands, and the north and east of France, and strong in force on many part of our western and northern coasts, moderate from the SW^2 in Ireland.
 E^3 (NE to SE) in Scandinavia and the north of Denmark; N^3 or SW^1 in Germany; variable in the east and south of France.

WEATHER

Cloudy, or dull over Northern Europe generally, with rain in many parts of England and France: snow is falling at Stockholm and Trondheim. Considerable quantities of rain fell yesterday in the south of England and the north of France, the largest reported this morning being 0.9 in at Cape Fin May, 0.8 in at Scilly, and 0.7 in at Harle Point and the North Foreland. Lightning was seen last evening at Valencia (Ireland) and lunar halos at Holyhead, Penzance and Jersey.

SEA

Rough at Rowle Point, and rather rough on many parts of our western and northern coasts, but moderate or slight elsewhere.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay yesterday morning near the mouth of the English Channel moved quickly eastwards during the day, and now passing away over the Baltic. The larger disturbance off our western coast appears to be moving northwards, but ^{with} the present conditions it seems likely that it will shortly be followed by the advance of other depressions from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 14TH DEC^R 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
ft 0	SCOTLAND NORTH	S ² ₄ gales or strong winds; squally rain at times.	ft 6	SCOTLAND WEST	S ² ₄ winds, strong, perhaps a gale; squally, some rain.
ft 1	SCOTLAND EAST		ft 7	ENGLAND N.W.	
2	ENGLAND N.E.	S ² ₄ winds, freshening considerably; squally and rainy at first, improving temporarily later.	ft 8	ENGLAND S.W.	SW ² ₄ winds, moderate to S ² ₄ strong, or a gale; fair at first, some rain later.
ft 3	ENGLAND EAST		ft 9	IRELAND NORTH	
4	MIDLAND COUNTIES		ft 10	IRELAND SOUTH	
ft 5	ENGLAND SOUTH	S ² ₄ to SW ² ₄ winds, strong; squally and rainy at first, improving temporarily later. Warmer.	WARNINGS		At 7-10 pm yesterday to districts 3, 5, 8, 10, and part of 7, and at 10 am today to districts 0, 1, 6, 9, and the remainder of "Hoist South Come."

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*.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.75	37	33	ESE	6	0	4	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.49	37	37	W	1	C	1	Jersey ...	29.58	50	48	NW	6	dp	5
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.37	46	46	ESE	3	1	3
Ardrossan ...								North Foreland	29.50	43	42	E	4	1	3
Malin Head ...	29.55	40	40	SSW	3	6	2	London (Westminster)							#
Belmullet ...	29.56	44	43	S	2	6	#	Yarmouth ...							
Holyhead ...								Rochefort ...	29.88	57	53	WSW	6	0	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 5th TO THE 11th DEC^r 1897.

Throughout the whole of this period, when pressure was high both over northern and south-western Europe, the weather in the north-western countries was affected by cyclonic systems of ^{considerable} size and intensity which appeared over or in the immediate neighbourhood of our islands. The conditions were therefore very rough and unsettled, with frequent gales, and falls of rain, hail or snow the amounts being at times heavy, especially in the western and northern districts. The chief depressions observed were:-

- (1) A V-shaped disturbance which spread over our western coasts on the 5th and which occasioned fresh to strong gales from the Sth on many parts of the Scotch coast.
- (2) A deep depression with minimum readings below 28.5 in. which passed along the north of Scotland on the 8th, and which occasioned gales from the SWth or Wth on nearly all our coasts. The progress of the main disturbance was accompanied by heavy rain in the north of Scotland, while the passage of secondary systems over our more southern district occasioned considerable falls also in the south of England.
- (3) A still deeper system, with minimum readings below 28.4 in., which struck our northern coasts on the night of the 8th, but which subsequently dispersed over the northern parts of the North Sea. This disturbance occasioned a continuance of gales from W. or NW. on all our western and northern coasts, with heavy rain in places, and with snow or sleet in the north.
- (4) A complex and somewhat shallow system which advanced quickly to our western coasts early on the 10th, and which subsequently moved rapidly across our islands to the North Sea, where it gradually dispersed. This also occasioned general falls of rain, with SWth to Wth gales in the west and south.

The changes in temperature during the week were frequent and rather sudden, the days being mostly rather mild, but the nights cold, with frost on many occasions.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 14th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
																		Max.	Min.	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.)								
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	30.13	17	2	0	0	30.23	+ .20	18	17	+ 8	2	0	0	5	0	5	18	-4	-	
	Hernösand ...	30.10	24	2	0	0	30.17	+ .17	24	23	0	2	0	0	5	0	5	27	21	-	
	Stockholm ...	30.03	30	2	0	0	30.10	+ .25	31	30	- 2	NE	2	0	5	0	5	33	27	0.08	
	Wisby ...	29.96	36	SSE	4	0	30.10	+ .30	34	33	+ 1	SSE	4	0	5	0	5	37	32	-	
	Karlstad ...	30.01	30	NE	2	0	30.06	+ .20	34	32	+ 7	NE	2	0	5	0	5	37	32	-	
	Bodö ...	29.97	32	E	2	0	30.00	+ .15	32	28	- 2	E	2	0	5	0	5	34	28	-	
	Christiansund ...	29.86	32	ESE	4	0	29.82	+ .04	32	29	- 1	ESE	4	0	5	0	5	36	30	-	
	Skudesnaes ...	29.82	36	SE	6	0	29.69	- .07	40	36	+ 4	ESE	7	0	4	0	5	40	34	5	
	Færder (Christiania Fjord)	29.91	31	NNE	4	0	29.99	+ .17	35	34	+ 4	E	4	0	2	0	5	35	28	-	
	Skagen (The Scaw)	29.93	35	ESE	2	0	29.94	+ .21	38	36	+ 5	S	3	0	0	0	5	38	32	0.08	
BRITISH ISLANDS.	Fanö ...	29.85	36	SSE	4	0	29.76	+ .01	38	37	+ 4	ESE	4	0	5	0	5	38	33	0.16	
	Sumburgh Head	29.41	42	S	6	0	29.08	- .41	42	40	+ 2	SE	8	0	7	0.0	5	44	39	0.16	
	Stornoway ...	29.17	43	WSW	4	0	28.91	- .31	40	38	0	SSW	6	0	6	0.0	0	47	36	0.30	
	Wick ...	29.30	43	S	7	0	29.07	- .31	48	46	+ 7	SW	4	0	6	0.0	5	49	39	0.07	
	Nairn ...	29.29	40	WSW	1	0	29.08	- .30	41	37	+ 5	W	1	0	1	0.0	5	48	34	0.01	
	Aberdeen ...	29.37	44	SSE	5	0	29.17	- .31	41	38	- 1	SW	3	0	5	0.0	5	49	40	0.37	
	Leith ...	29.32	40	ESE	3	0	29.23	- .16	40	37	+ 1	S	2	0	5	0	5	49	36	-	
	Shields ...	29.42	39	SSW	2	0	29.30	- .23	44	42	+ 8	SW	2	0	2	0.0	5	51	35	0.17	
	Spurn Head ...	29.46	44	S	4	0	29.38	- .22	43	42	+ 5	W	1	0	3	0.0	5	48	37	0.35	
	York ...	29.44	41	ESE	1	0	29.36	- .20	43	42	+ 9	S	1	0	5	0	5	52	33	0.35	
GERMANY & HOLLAND.	Loughborough ...	29.47	46	SE	1	0	29.36	- .24	43	43	+ 7	W	1	0	5	0.0	5	53	36	0.43	
	Ardrossan ...	29.25	42	NE	3	0	29.19	- .09	44	43	+ 1	S	4	0	3	0.0	5	46	41	0.07	
	Malin Head ...	29.12	43	SSE	4	0	29.04	- .11	36	35	- 7	SSW	6	0	3	0.0	5	47	35	0.15	
	Belmullet ...	29.06	42	WSW	2	0	29.03	- .15	42	40	- 2	SSW	4	0	5	0	5	47	38	0.75	
	Donaghadee ...	29.21	48	SSE	6	0	29.21	- .06	38	38	- 10	SSW	4	0	3	0	5	51	34	0.11	
	Liverpool (Bidston)	29.36	48	SE	3	0	29.33	- .09	41	39	+ 1	S	2	0	5	0	5	53	39	0.08	
	Holyhead ...	29.26	50	S	4	0	29.28	- .05	45	43	- 2	S	4	0	3	0.0	5	52	42	0.06	
	Parsonstown ...	29.00	48	SE	4	0	29.17	- .11	35	34	- 10	SE	1	0	5	0	5	51	34	0.07	
	Valencia ...	29.07	42	W	6	0	29.08	- .21	45	41	- 2	S	3	0	4	0.0	5	51	39	0.47	
	Roche's Point ...	29.05	52	S	8	0	29.22	- .12	44	43	- 4	SW	5	0	5	0	5	52	42	0.15	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.22	53	SSW	6	0	29.32	- .09	45	43	- 7	W	5	0	4	0	5	54	43	0.29	
	Scilly ...	29.27	54	S	7	0	29.35	- .11	48	45	- 5	SW	5	0	6	0	5	55	44	0.38	
	Prawle Point ...	29.46	51	SSW	6	0	29.45	- .08	44	43	- 8	WSW	3	0	4	0	5	53	43	0.64	
	Jersey (St. Aubin's)	29.62	54	SW	3	0	29.55	- .16	51	50	0	SW	5	0	5	0	5	54	50	0.25	
	Hurst Castle ...	29.55	53	SSW	6	0	29.45	- .18	51	48	+ 1	SW	5	0	3	0	5	54	48	0.40	
	Dungeness ...	29.63	52	SSW	6	0	29.51	- .24	52	50	+ 6	S	6	0	6	0	5	54	46	0.06	
	North Foreland	29.65	52	S	4	0	29.52	- .25	49	48	+ 5	SSE	4	0	3	0	5	53	42	0.02	
	London (Brixton) ...	29.57	52	S	4	0	29.46	- .24	50	48	+ 7	S	3	0	5	0	5	54	43	0.09	
	Oxford ...	29.48	52	S	3	0	29.40	- .20	46	45	+ 7	S	1	0	5	0	5	53	39	0.53	
	Cambridge ...	29.54	51	S	4	0	29.41	- .29	51	50	+ 17	SW	5	0	5	0	5	54	33	0.12	
PENIN- SULA.	Yarmouth ...	29.55	48	SSW	4	0	29.46	- .28	49	47	+ 10	SSW	6	0	4	0	5	49	36	0.13	
	Cuxhaven ...	29.58	36	SW	3	0	29.77	0.00	44	44	+ 7	S	2	0	5	0	5	45	36	0.44	
	Berlin ...	30.03	38	SE	2	0	29.98	+ .25	38	37	+ 1	SE	2	0	5	0	5	46	36	-	
	Wiesbaden ...	#	#	#	#	#	29.94	- .03	42	41	0	W	2	0	5	0	5	46	41	0.20	
	Munich ...	30.10	43	E	2	0	30.06	+ .04	33	32	- 13	S	1	0	5	0	5	48	32	0.04	
	The Helder ...	29.69	41	S	3	0	29.62	- .20	47	46	+ 10	S	3	0	1	0	5	48	36	0.12	
	Brussels ...	#	#	#	#	#	29.74	- .17	48	45	+ 8	SSE	5	0	5	0	5	51	39	0.04	
	Cape Gris Nez ...	29.64	52	SW	6	0	29.50	- .25	52	48	+ 11	S	5	0	5	0	5	54	41	0.04	
	Paris ...	29.83	52	S	3	0	29.74	- .16	44	42	+ 1	SSE	3	0	5	0	5	53	42	0.08	
	Brest ...	29.54	55	S	5	0	29.50	- .12	51	49	0	W	5	0	6	0	5	55	46	0.39	
PENIN- SULA.	Lorient ...	29.66	54	S	6	0	29.59	- .18	49	49	- 5	WSW	4	0	5	0	5	57	46	0.28	
	Rochefort ...	29.83	52	S	4	0	29.69	- .24	51	48	- 2	S	5	0	5	0	5	55	46	-	
	Belfort ...	30.02	49	SW	1	0	29.95	- .08	43	40	- 2	ENE	1	0	5	0	5	54	34	0.16	
	Lyons ...	30.04	53	S	3	0	29.91	- .19	54	49	+ 13	S	4	0	5	0	5	57	41	-	
	Nice ...	30.19	50	2	0	0	30.19	+ .01	47	47	+ 2	E	1	0	3	0	5	57	43	0.12	
	Perpignan ...	30.02	50	2	0	0	29.88	- .22	56	49	+ 6	S	4	0	5	0	5	56	44	-	
	Biarritz ...	29.91	56	S	3	0	29.75	- .26	57	49	+ 3	SW	6	0	3	0	5	63	54	-	
	Corunna ...	#	#	#	#	#	29.74	- .17	48	45	+ 8	SSE	5	0	5	0	5	51	39	0.04	
	Lisbon ...	30.04	56	WNW	4	0	30.00	- .15	58	55	+ 4	SW	3	0	5	0	5	79	56	0.20	
	Azores (P. Delgada)	30.13	58	WNW	2	0	30.13	+ .02	57	53	- 2	NW	1	0	3	0	5	64	55	0.08	

For Explanation of Columns, see bottom of last page.

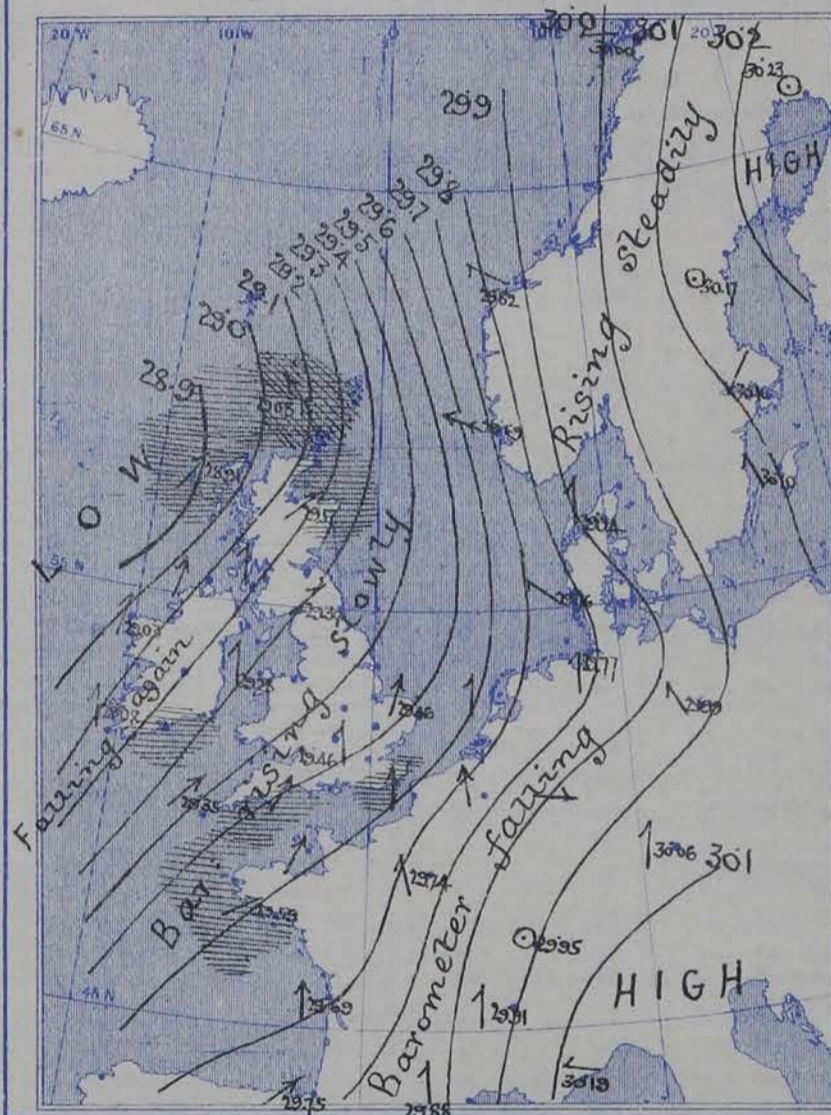
† Received too late for Insertion in Charts on next page.

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

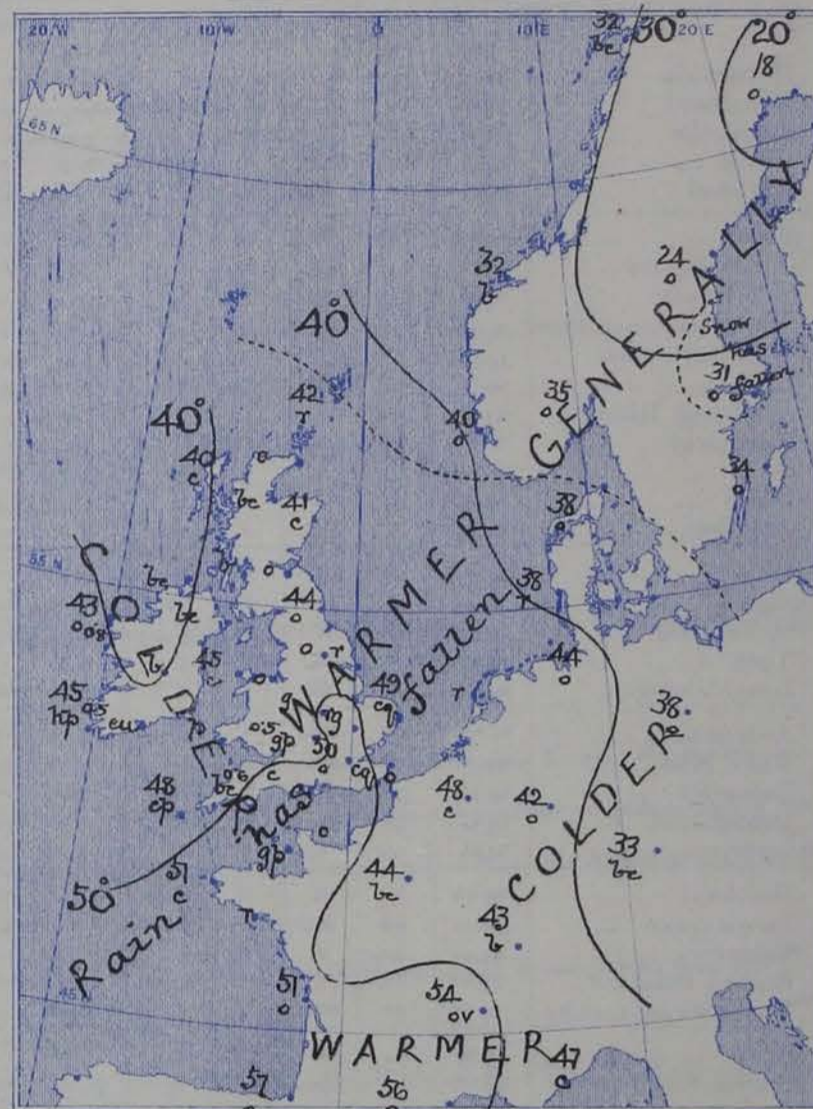
Bright Sunshine yesterday Southport. 2 hrs;

FOR Tuesday, 14th December, 1897.

SEA—Rough  ; High



RAINFALL— $\left\{ \begin{array}{l} \text{A dotted line separates areas where rain has fallen from those} \\ \text{without rain. The fall in past 24 hours when exceeding half} \\ \text{an inch is shown thus—0.6.} \end{array} \right.$



STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards over the Gulf of Bothnia; 30.1 ins. and upwards in the S.E. of France.
 Lowest 28.9 ins. and less in a depression lying off the N.W. of Scotland.
 Gradients steep over the N.W. parts of the North Sea, moderate to rather steep in most other parts of W. Europe.
 Barometer rising a little over our islands generally, but falling again at Valencia (Ireland); falling in the western parts of the Continent.

TEMPERATURE

Highest 58° at Lisbon, 57° at Biarritz, 56° at Perpignan, 54° at Lyons, 52° at Dungeness, and 51° at Jersey, Hurst Castle, Brest and Roslefort.
 Lowest (1) 18° at Haparanda, 24° at Hernösand, and 31° at Stockholm; (2) 33° at Munich; (3) 35° at Parsonstown, and 36° at Malin Head.
 During yesterday the thermometer rose to 50° and upwards in most parts of England and Ireland, & to 55° at Seilly.

WIND

Moderate to strong from the S^W or S^Wnd over our islands, France and the Netherlands.
 E^W over the greater part of Scandinavia but calm in the N. of Sweden.
 Since yesterday morning a fresh to strong, ^{gale} from the S^W has prevailed on many parts of our western and northern coasts.

WEATHER

Very changeable over W. Europe as a whole, with passing showers at many of our southern stations; hail at Valencia (Ireland).
 Fine on our own N.W. coasts and also in the W. of Norway.
 Rain fell yesterday in nearly all parts of W. Europe, the largest amounts being 0.8 in. at Belmullet, 0.6 in. at Bawle P., and 0.5 in. at Valencia (Ireland) and Oxford. A lunar halo was seen at Spurn H.

SEA

High at Sunningly H., and rough or rather so on our N^W and S^W coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions are still moving in quick succession along our W^W coasts. This morning a fresh disturbance is approaching Ireland, so that the S^W wind is likely to increase again on many parts of our coasts, with squally and very changeable weather.

FORECASTS

For the 24 hours ending at NOON on 15TH DECEMBER 1897.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SW ^W winds moderate, to S ^W strong or a gale, fair at first some rain later.
2	SCOTLAND EAST	
3	ENGLAND N.E.	Same as No. 5.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	SW to S ^W winds strong to a gale in places, squally, showery, becoming temporarily colder.
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

7	SCOTLAND WEST	S ^W winds, increasing in force, squally, some rain.
8	ENGLAND N.W.	
9	ENGLAND S.W.	S ^W winds strong to a gale, veering and moderating later, unsettled, some rain.
10	IRELAND NORTH	
11	IRELAND SOUTH	Strong S ^W winds shifting later to the W ^W or NW ^W ; squally, some cold showers.
12	IRELAND SOUTH	
13	IRELAND SOUTH	The South Cone was hoisted yesterday afternoon in district 2 and is now flying on all coasts.
14	IRELAND SOUTH	

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.83	34	33	SE	2	b	3	Valencia ...	29.11	48	45	SSE	4	r	5
Sumburgh Head ...	29.44	43	40	S	4	o	6	Scilly ...	29.40	54	53	S	5	r	4
Stornoway ...	29.16	44	42	SSW	6	o	6	Jersey ...	29.67	54	53	SSW	4	og	4
Aberdeen ...	29.39	41	41	SSE	7	orgq	6	Hurst Castle ...	29.57	53	51	SSW	6	rgm	4
Shields ...	29.43	38	38	S	3	r	2	Dungeness ...	29.63	51	50	S	6	r	5
Ardrossan ...	29.28	44	43	SSE	3	om	3	North Foreland ...	29.66	48	48	S	4	r	3
Malin Head ...	29.20	44	44	SSW	4	bc	2	London (Westminster) ...	29.56	52	51	S	3	org	#
Belmullet ...	29.19	45	43	WSW	2	o	#	Yarmouth ...	29.58	44	43	SSE	5	org	4
Holyhead ...	29.35	51	49	SW	3	cm	3	Rochefort ...	29.88	54	52	S	4	o	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over nearly the whole of Europe, with rain in many parts of England and France, as well as at some of the Baltic stations; snow falling at Faerder and Stockholm and over the Gulf of Finland. Fine over S^m Italy and the central parts of Russia. Rain falling later over W^m Europe generally - heavily at some of the English and Irish stations. *Lunar halo* seen at Spurn Head.

Temperature risen in our islands and also over Sweden, the Baltic and N^m Russia, but fallen elsewhere. Morning readings highest 60° at Algiers, 58° at Malta, 57° at Corunna, and 56° at Palma; above 50° over the Bay of Biscay and the English Channel. Lowest -4 F. at Moscow, +6° at Ulesborg, 8° at Kherkov, and 10° at Haparanda, below the freezing point over Sweden and Russia generally, and very little above it in some parts of central England. Rising later to 50° and upwards at most of the English and Irish stations, and to 55° at Scilly; exceeding 55° in the W. and S. of France, and reaching 63° at Biarritz, and 79° at Lisbon.

Wind S^w over St. Britain, the Netherlands and the northern and western parts of France and the Spanish peninsula, and strong in force on several parts of our own W^m and N^m coasts; moderate from the SW^w in Ireland. W^m in Germany; S^w or SE^w over the western and central parts of Russia, E^w (SE. to NE) in Scandinavia. Variable over Spain, Italy and the south of France. Subsequently increasing to a gale from S. on many parts of our western and northern coasts, and blowing very strong in the south and southeast.

Barometer highest 30.4 ins. and upwards over the southern parts of central Russia, 30.1 ins. and upwards in an anticyclone extending from Russia over nearly the whole of S^m Europe. Lowest 29.2 ins. and less in a depression lying off our extreme NW. coasts, 29.6 ins. and less in a small system over Pomerania. Depression in W. subsequently moving away to the N^w, new disturbance moving quickly along our W^m coasts in evening and night.

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.
N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 15th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.				Barometer.	Temperature.	Wind.								Temp.			
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.	
SCANDINAVIA.	Ins.	°					Ins.	Ins.	°	°	°						°	°	Ins.	
	Haparanda ...	30.31	18	E	2	0	30.30	+ .07	18	17	0	Z	0	0	#	0	19	14	—	
	Hernösand ...	30.23	27	Z	0	0	30.21	+ .04	33	32	+ 9	Z	0	0	#	0	33	21	—	
	Stockholm ...	30.20	32	NE	2	0	30.19	+ .09	36	35	+ 5	SE	2	0	#	0	36	28	—	
	Wisby ...	30.19	29	SSE	4	0	30.17	+ .07	36	35	+ 2	SSE	4	0	#	0	36	27	—	
	Karlstad ...	30.06	33	S	2	0	29.99	— .07	36	35	+ 2	SW	2	0	#	0	36	27	—	0.12
	Bodo ...	29.96	30	E	4	6	29.94	— .06	30	26	— 2	E	4	6	1	6	32	25	—	
	Christiansund ...	29.61	41	ESE	4	0	29.76	— .06	42	38	+ 10	SE	2	0	3	0	43	30	0.04	
	Skudesnaes ...	29.54	44	SE	8	7	29.63	— .06	45	42	+ 5	ESE	4	0	4	0.7	45	34	#	
	Færder (Christiania Fjord)	29.93	35	ESE	5	7	29.88	— .11	38	37	+ 3	SE	2	0	3	7	38	35	0.95	
	Skagen (The Scaw)	29.82	40	SSW	6	7	29.81	— .13	40	40	+ 2	S	3	0	1	7	40	37	0.32	
	Fanö ...	29.75	44	SE	4	0	29.69	— .07	41	41	+ 3	SE	4	0	#	0	45	37	0.37	
	Sumburgh Head	29.27	42	S	3	6	29.37	+ .29	45	44	+ 3	SE	4	0	6	0.6	48	40	0.09	
	Stornoway ...	29.10	39	SW	3	7	29.14	+ .23	44	42	+ 4	SSE	3	0	4	7	44	36	0.45	
	Wick ...	29.24	46	SW	3	6	29.18	+ .11	47	46	— 1	SSE	6	0	7	6	50	41	0.04	
	Nairn ...	29.20	40	W	1	6	29.15	+ .07	44	42	+ 3	E	1	0	1	6	44	35	—	
	Aberdeen ...	29.31	41	S	4	6	29.22	+ .05	46	44	+ 3	S	5	0	5	6.6	47	39	0.05	
BRITISH ISLANDS.	Leith ...	29.29	36	S	3	6	29.7	— .06	43	41	+ 3	Z	0	0	#	6	47	38	0.01	
	Shields ...	29.40	42	S	3	6	29.20	— .10	43	42	— 1	SSW	2	0	2	0.6	46	41	—	
	Spurn Head ...	29.46	43	SSE	3	6	29.30	— .08	45	43	+ 2	SSW	6	0	5	6	45	42	0.04	
	York ...	29.43	41	S	1	6	29.29	— .07	44	43	+ 1	SSW	3	0	#	6.6	45	39	0.02	
	Loughborough ...	29.45	41	SE	2	6	29.34	— .02	44	42	+ 1	SW	5	0	#	6.6	50	40	0.16	
	Ardrossan ...	29.22	43	NE	3	0	29.15	— .04	44	44	0	SSW	2	0	2	6.6	46	42	0.08	
	Malin Head ...	29.10	39	SE	3	6	29.18	+ .14	45	43	+ 9	W	4	0	2	6.6	45	35	0.30	
	Belmullet ...	29.04	41	ESE	3	0	29.36	+ .33	45	41	+ 2	W	2	0	#	0	45	38	0.01	
	Donaghadee ...	29.20	43	SSW	6	0	29.20	— .01	40	40	+ 2	WNW	5	0	3	0	45	35	0.52	
	Liverpool (Bidston)	29.31	43	SE	3	6	29.29	— .04	44	41	+ 3	WSW	5	0	4	6.6	45	40	0.02	
	Holyhead ...	29.19	45	S	7	0	29.30	+ .02	44	42	— 1	W	6	0	5	6.6	47	43	0.56	
	Parsonstown ...	29.02	42	SE	1	0	29.40	+ .23	36	35	+ 1	Z	0	0	#	6.6	43	34	0.09	
	Valencia ...	28.88	44	SE	1	0	29.45	+ .37	45	43	0	SSW	2	0	4	6.6	48	38	0.89	
	Roche's Point ...	28.97	47	SSW	6	0	29.48	+ .26	43	42	— 1	W	3	0	4	6.6	51	40	0.50	
	Pembroke (St. Ann's Rd.)	29.13	48	SW	7	0	29.48	+ .16	49	45	+ 4	W	1	0	5	6.6	49	43	0.56	
GERMANY & HOLLAND.	Scilly ...	29.14	46	SSW	6	0	29.56	+ .21	50	46	+ 2	W	6	0	7	6.6	52	44	0.35	
	Prawle Point ...	29.33	49	SSW	7	0	29.59	+ .14	48	46	+ 4	WSW	6	0	6	6.6	51	43	0.36	
	Jersey (St. Aubin's)	29.51	51	S	5	0	29.72	+ .17	52	49	+ 1	SW	6	0	6	6.6	56	49	0.23	
	Hurst Castle ...	29.47	52	S	5	0	29.60	+ .15	50	46	— 1	W	6	0	4	6.6	52	41	0.29	
	Dungeness ...	29.57	51	SSW	5	0	29.59	+ .08	51	49	— 1	SW	7	0	6	6.6	52	50	0.06	
	North Foreland	29.60	49	S	3	0	29.58	+ .06	48	46	— 1	S	4	0	3	6.6	52	46	0.04	
	London (Brixton) ...	29.52	47	S	2	0	29.55	+ .09	47	44	— 3	WSW	3	0	#	6.6	53	42	0.25	
	Oxford ...	29.41	46	S	3	0	29.49	+ .09	46	42	0	SW	3	0	#	6.6	49	43	0.16	
	Cambridge ...	29.52	43	S	3	0	29.46	+ .05	46	43	— 5	SW	6	0	#	6.6	53	42	0.06	
	Yarmouth ...	29.55	46	S	2	0	29.49	+ .03	45	43	— 4	SSW	4	0	4	6.6	50	43	0.08	
	Cuxhaven ...	29.75	46	S	3	0	29.70	— .07	46	46	+ 2	S	4	0	#	0	48	43	0.04	
	Berlin ...	29.97	42	SE	3	0	29.97	— .01	39	37	+ 1	SE	2	0	#	0	46	38	—	
	Wiesbaden ...	#	#	#	#	#	29.97	+ .03	47	46	+ 3	SW	1	0	#	0	48	42	—	
	Munich ...	30.03	35	SE	4	0	30.08	+ .02	28	28	— 5	SE	2	0	#	0	48	27	—	
	The Helder ...	29.66	47	SSW	3	0	29.61	— .01	45	44	— 2	SSW	6	0	2	0	48	45	0.28	
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	29.79	+ .05	47	46	— 1	SSW	5	0	#	0	54	46	?	
	Cape Gris Nez ...	29.58	48	SSW	5	0	29.61	+ .11	48	46	— 4	SW	6	0	5	0	54	45	0.08	
	Paris ...	29.74	50	S	3	0	29.88	+ .14	46	44	+ 2	S	4	0	#	0	52	44	0.10	
	Brest ...	29.41	51	WSW	6	0	29.75	+ .25	53	49	+ 2	WNW	5	0	6	0	55	46	0.08	
	Lorient ...	29.53	52	SSW	6	0	29.79	+ .20	52	50	+ 3	SSW	4	0	5	0	55	46	—	
	Rocheport ...	29.71	49	SSW	4	0	29.89	+ .20	52	50	+ 1	S	3	0	#	0.7	54	46	0.98	
	Belfort ...	29.94	47	WNW	1	0	30.05	+ .10	44	43	+ 1	WSW	2	0	#	0	53	39	0.12	
	Lyons ...	29.93	52	S	5	0	30.07	+ .16	50	48	— 4	S	1	0	#	0	55	49	—	
	Nice ...	30.17	48	Z	0	0	30.19	0.0	49	47	+ 2	ENE	2	0	3	0	52	46	0.32	
	Perpignan ...	29.89	54	Z	0	0	30.06	+ .18	43	42	— 13	SW	1	0	#	0	64	43	—	
	Biarritz ...	29.75	59	S	6	0	29.97	+ .22	51	48	— 6	SSE	2	0	7	0	63	48	0.12	
PENIN- SULA.	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Lisbon ...	30.05	55	S	2	0	30.10	+ .10	56	55	— 2	SW	1	0	#	0	61	54	0.16	
	Azores (P. Delgada)	30.04	62	WSW	5	0	29.83	— .30	62	59	+ 5	WSW	9	0	6	0	64	55	0.08	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 2.5 hrs;

WEATHER CHARTS

FOR WEDNESDAY, 15TH DECEMBER, 1897.

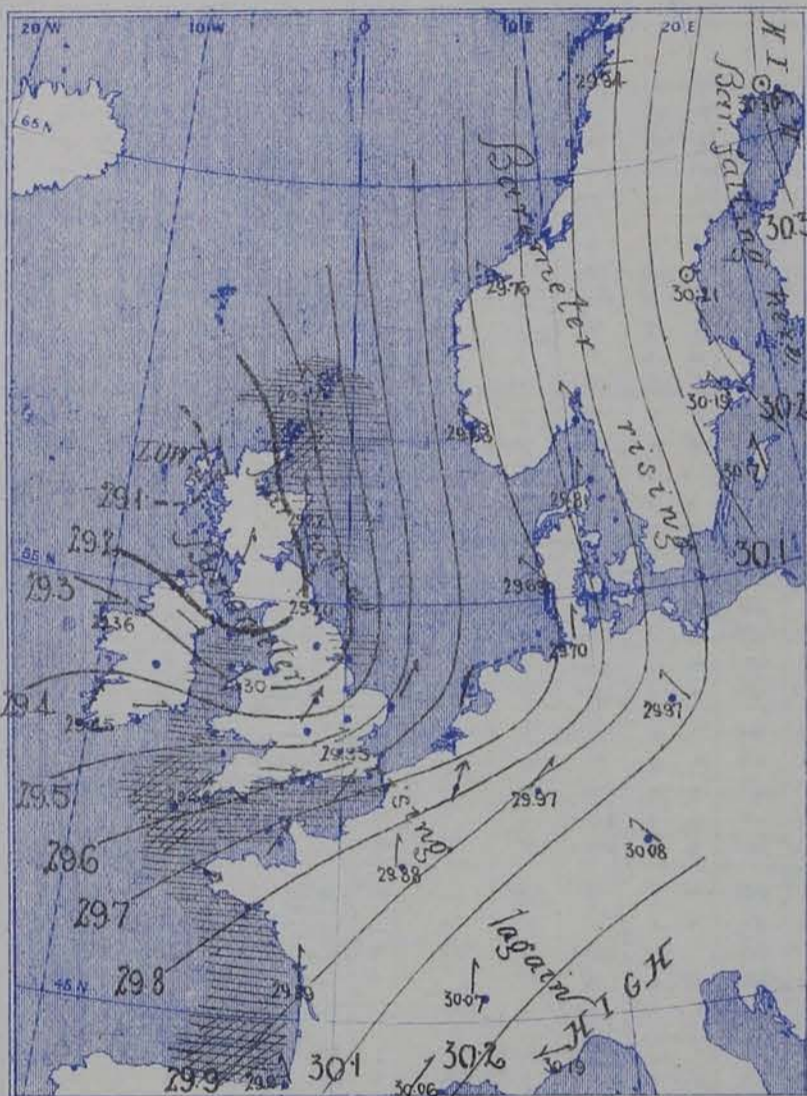
BAROMETER, WIND AND SEA.

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 ≡≡≡

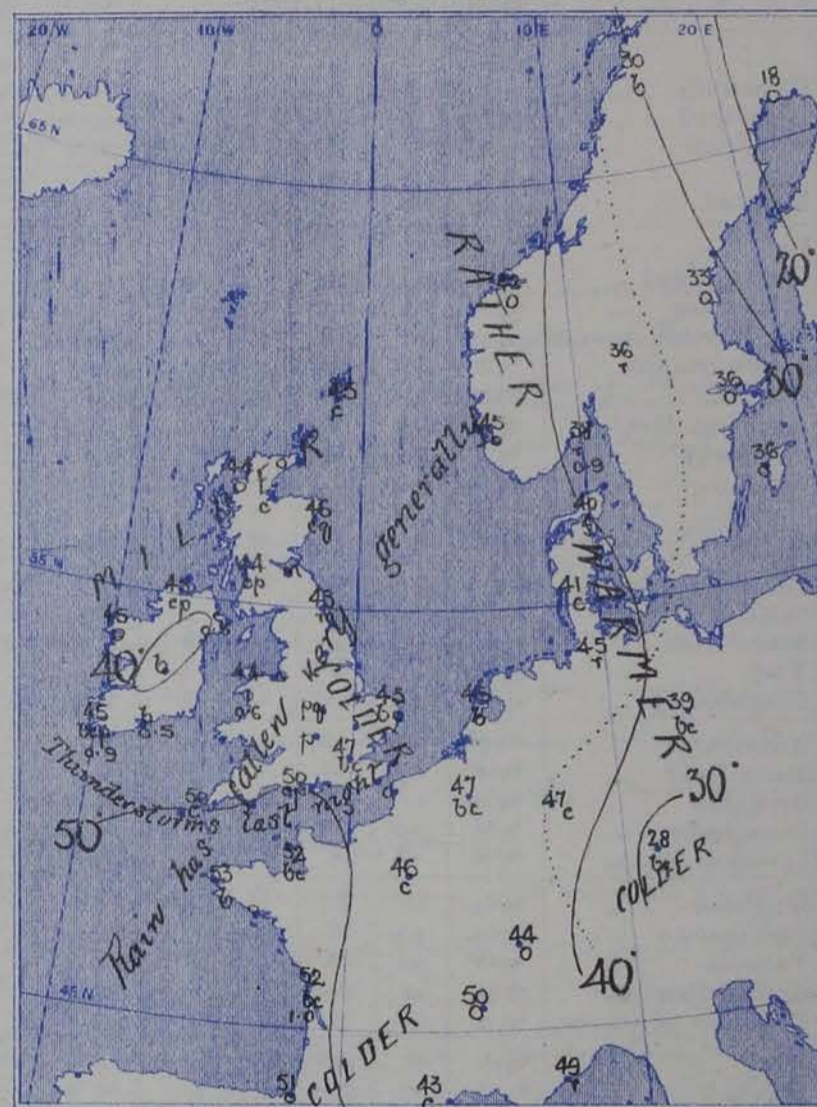


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1892	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. to 30.3 ins. over the Gulf of Bothnia; 30.1 ins. and upwards in the S.E. of France, and also over the southern parts of the Spanish peninsula.

Lowest 29.1 ins. and less in a depression off the west of Scotland.

Gradients moderate to rather steep generally.

Barometer rising in most parts of our Islands and France, but falling in Sweden and Denmark.

TEMPERATURE

Highest 56° at Lissbon, 53° at Brest, 52° at Jersey, Lorient and Rochefort, and 51° at Denigou and Biarritz.

Lowest (1) 18° at Haparanda, and 30° at Bodo; (2) 28° at Murisk; (3) 36° at Pauvontown, and 40° at Donaglad.

During yesterday the thermometer rose to 50° and upwards at most of our central and southern stations, and to 56° at Jersey.

WIND

Moderate to strong from the Wnd on most parts of our western and southern coasts, but back to S.W. at Valencia.

Strong from the Snd over the Netherlands and the east coasts of Gt. Britain; light to moderate from the S.E.nd over the greater part of Germany, Denmark and Scandinavia, but calm in the Gulf of Bothnia.

Light to moderate from the Snd in France.

Temporarily fine in places, but changeable and showery over W^m Europe as a whole.

Dull in Scandinavia, with rain at Faerder and Karlstad.

WEATHER

Rain fell yesterday in most parts of our area, the largest amounts being 1.0 inch at Faerder and Rochefort, 0.9 inch at Valencia (Ireland), and 0.6 inch at Holyhead. Thunderstorms occurred at Valencia yesterday morning and over the S. of England generally during the evening or night.

SEA

High at Wick and also at Scilly and Biarritz, rough or rather so on nearly all the more exposed parts of our own and French coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The centre of another rather deep depression appeared last evening off the S.W. of Ireland, but has since moved rapidly northwards. The backing wind at Valencia seems, however, to indicate the approach of another disturbance, so that an early renewal of rough unsettled weather is probable over the country generally.

FORECASTS

For the 24 hours ending at NOON on 16TH DECEMBER 1897.

DISTRICTS.

FORECASTS.

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

Sth winds, strong at times, squally, showery.

SWth to Sth winds, fresh or strong, fair at first, some rain later.

Wth to Sth winds, fresh or strong, fair at first, some rain later.

DISTRICTS.

FORECASTS.

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

Wth to Sth winds, increasing in force, fair at first, then squally, with some rain.

WARNINGS

The South Cone is still flying in district 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.60	43	39	ESE	8	0	5	Valencia ...	28.91	46	42	SSE	5	opg	6
Sumburgh Head ...	29.21	43	41	SSW	3	0	7	Scilly ...	29.22	50	48	S	7	rg	6
Stornoway ...	29.03	39	38	SW	6	r	6	Jersey ...	29.54	53	50	SSE	5	c	5
Aberdeen ...	29.28	41	38	S	2	b	5	Hurst Castle ...	29.50	52	48	SSW	4	c	2
Shields ...	29.36	45	42	SSE	3	cm	2	Dungeness ...	29.55	51	49	SW	5	b	4
Ardrossan ...	29.21	46	45	S	4	b	3	North Foreland ...	29.55	51	49	S	4	c	3
Malin Head ...	29.08	41	39	S	5	b	2	London (Westminster) ...	29.52	53	47	S	3	b	#
Belmullet ...	29.06	41	39	SE	3	0	#	Yarmouth ...	29.48	49	47	SSW	4	c	4
Holyhead ...	29.28	46	43	S	4	chf	3	Rochefort ...	29.72	53	52	S	5	0	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning changeable and showery over W^m Europe generally, but fine on our own NW. coasts, and also in the W. of Norway. Dull in most of the E^m, central and S^m countries, with rain in a few isolated places, and snow at Kiev; fog reported over S. Germany. Rain falling later over nearly the whole of W^m Europe, - heavily in places. Thunderstorms occurring at Valencia (Ireland) in morning and over the S. of England generally during the evening or night.

Temperature fallen in the W^m parts of our islands and France, and also over Austria and E^m Germany, but risen elsewhere. Morning reading, highest 59° at Malta and Algiers, and 58° at Billas and Cumma; above 50° at most of the Mediterranean and Spanish coast stations, and also in the SE. of England. Lowest 2° at Uleaborg, 7° at Kharkov, 17° at Nicolaieff, 18° at Haparanda, below the freezing point in most parts of N^m and E^m Europe, and very little above it in central Ireland. Rising during day to 50° and upwards at several of our own central and S^m stations, and reaching 56° at Jersey, exceeding 60° in the S. of France.

Wind moderate to strong from the S^{wd} or SW^{wd} over western Europe generally, but from the SE^{wd} over Germany and the E^m shores of the North Sea. Calm over the Gulf of Bothnia, light and variable over Russia, Austria and Italy. Subsequently increasing to a gale from the S or SW on many parts of our own S. coasts; no important change occurring elsewhere.

Barometer highest 30.4 in. and upwards in an anticyclone lying over central Russia. Lowest 28.9 in. and less in a depression lying off the NW. of Scotland; gradients steep over the N^m parts of the North Sea and rather steep over many parts of W^m Europe. Depression subsequently moving away to the N^{wd}, but new disturbance advancing to the SW. of Ireland in evening.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on *Thursday, 16th December,* 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.	
				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.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.34	24	S	2	0	30.26	-0.04	26	26	+8	E	2	S	#	0	#	14	-		
	Hernösand ...	30.19	34	SE	0	7	30.10	-0.11	35	35	+2	S	2	7	#	7	#	35	28		
	Stockholm ...	30.15	36	SE	6	7	30.14	-0.05	38	37	+2	S	2	5	#	7	#	38	30		
	Wisby ...	30.15	38	SSE	8	7	30.21	+0.04	40	39	+4	S	4	0	#	7	#	40	27		
	Karlstad ...	29.93	38	S	2	7	30.02	+0.03	41	40	+5	S	4	7	#	7	#	#	#		
	Bodö ...	30.04	29	E	4	6	29.87	-0.07	36	33	+6	E	4	bc	1	6	#	36	25		
	Christiansund ...	29.61	42	SE	5	0	29.67	-0.09	42	38	0	SSE	3	bc	2	0	#	43	37		
	Skudesnaes ...	29.52	44	SE	6	0	29.83	+0.20	45	44	0	SW	4	0	4	0	#	45	37		
	Færder (Christiania Fjord)	29.78	43	SSE	4	0	29.92	+0.04	43	42	+5	WSW	6	6	4	0	#	43	37		
	Skagen (The Scaw)	29.85	42	SW	4	0	30.04	+0.23	39	39	-1	SW	4	bc	1	0	#	43	39		
BRITISH ISLANDS.	Fanö ...	29.89	43	S	4	0	30.07	+0.38	41	41	0	SSW	4	0	#	0	#	45	41		
	Sumburgh Head	29.33	46	SSE	3	0	29.54	+0.17	42	42	-3	S	1	0	4	0	#	47	40		
	Stornoway ...	29.32	40	N	2	6	29.34	+0.20	44	42	0	SSE	4	0	4	0.6	0.0	44	33		
	Wick ...	29.35	44	SW	3	0	29.44	+0.26	45	43	-2	S	3	0	6	0	#	48	38		
	Nairn ...	29.39	41	Z	0	C	29.40	+0.25	40	39	-4	E	1	0	1	C	#	47	31		
	Aberdeen ...	29.40	43	WSW	3	ogp	29.47	+0.25	46	46	0	SSE	5	ogp	5	bc.ogp	0.7	47	35		
	Leith ...	29.57	44	SE	2	bc	29.41	+0.24	45	44	+2	S	1	7	#	bc	#	47	39		
	Shields ...	29.60	42	WSW	2	bm	29.52	+0.32	49	48	+6	S	5	0	2	p.c.b.r	#	49	38		
	Spurn Head ...	29.73	42	SSW	4	6	29.66	+0.36	48	47	+3	S	5	0	4	p.b.o	#	48	40		
	York ...	29.67	43	N	3	6	29.64	+0.35	52	51	+4	SSE	1	0	#	0.6.7	0.0	52	38		
GERMANY & HOLLAND.	Loughborough ...	29.76	43	SW	1	6	29.78	+0.44	53	52	+9	SSE	4	0	#	bc.ogp	#	53	40		
	Androssan ...	29.50	47	WSW	4	6	29.36	+0.21	51	51	+7	SE	4	omp	3	6	#	51	41		
	Malin Head ...	29.43	42	S	4	6	29.16	-0.02	50	49	+5	S	3	ogm	2	p.b.c.6	#	50	40		
	Belmullet ...	29.53	43	WSW	2	0	29.13	-0.23	50	48	+5	S	5	7	#	bc.o	#	51	40		
	Donaghadee ...	29.56	41	SSW	4	6	29.31	+0.11	50	50	+10	SSW	6	bc	5	6	#	51	37		
	Liverpool (Bidston)	29.69	43	SSE	1	6	29.55	+0.26	52	51	+8	SE	3	0	3	bm	#	53	41		
	Holyhead ...	29.61	48	SSW	4	gp	29.45	+0.15	53	52	+9	S	4	ogm	3	p.b.c.p	#	53	42		
	Parsonstown ...	29.52	42	SE	1	0	29.30	-0.10	51	48	+15	SE	2	og	#	bc.or	4.6	53	35		
	Valencia ...	29.36	51	SE	5	og	29.09	-0.36	54	49	+9	S	7	ogm	6	c.og.r	2.3	55	44		
	Roche's Point ...	29.43	51	S	5	og	29.29	-0.19	53	52	+10	SSW	6	op	5	b.op	#	53	43		
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.60	51	SSE	5	0	29.49	+0.01	53	52	+4	SW	7	0	5	c.or	3.0	54	48		
	Scilly ...	29.55	53	SSE	6	7	29.53	-0.03	55	54	+5	S	7	0	6	bc.or.l	3.5	55	46		
	Prawle Point ...	29.74	57	SSW	5	0	29.73	+0.14	55	54	+7	SSW	7	ogp	6	p.g.p	#	56	47		
	Jersey (St. Aubin's)	29.84	53	SSE	4	bc	29.92	+0.20	54	52	+2	SE	5	bc.m	5	b.b.c.p	#	56	50		
	Hurst Castle ...	29.92	52	SSW	5	bc	29.82	+0.22	55	53	+5	SSW	6	cm	3	b.b.c	#	55	49		
	Dungeness ...	29.87	51	SW	4	C	29.91	+0.32	51	50	0	SSW	6	bc	5	C	#	53	48		
	North Foreland	29.89	47	SW	3	6	29.94	+0.36	51	50	+3	S	4	0	3	6	#	52	46		
	London (Brixton) ...	29.84	45	N	2	6	29.84	+0.29	53	52	+6	SSW	4	odp	#	bc.op	3.8	53	44		
	Oxford ...	29.82	43	S	3	0	29.76	+0.27	54	53	+8	S	5	op	#	bc.op	#	54	43		
	Cambridge ...	29.83	41	SSW	2	6	29.81	+0.35	52	51	+6	S	4	og	#	bc.b.g	5.0	53	38		
PENIN- SULA.	Yarmouth ...	29.82	44	SW	3	bc	29.86	+0.37	49	47	+4	SSW	5	cg	4	b.b.c	#	49	41		
	Cuxhaven ...	29.89	45	SSW	5	bc	30.13	+0.43	40	40	-6	S	2	0	#	bc.r	#	48	37		
	Berlin ...	30.13	40	S	2	6	30.32	+0.35	35	34	-4	SSW	1	6	#	6	#	45	34		
	Wiesbaden ...	#	#	#	#	#	30.30	+0.33	34	34	-13	SW	1	7	#	#	#	50	34		
	Munich ...	30.24	36	SW	3	6	30.37	+0.29	30	30	+2	E	1	6	#	6	#	41	28		
	The Helder ...	29.88	47	SW	4	6	29.99	+0.38	45	43	0	S	4	C	2	6	#	48	43		
	Brussels ...	#	#	#	#	#	30.11	+0.32	45	42	-2	SSE	5	0	#	6	#	51	41		
	Cape Gris Nez ...	29.86	48	SW	5	0	29.90	+0.29	51	48	+3	SSW	5	0	4	0	#	51	43		
	Paris ...	30.10	48	SSE	2	bc	30.13	+0.25	45	43	-1	SE	2	bc	#	6	#	51	42		
	Brest ...	29.68	52	SSE	5	7	?	?	53	51	0	S	6	bc	6	7	#	55	48		
PENIN- SULA.	Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
	Rochefort ...	29.96	50	S	3	bc	30.01	+0.12	48	46	-4	SSE	4	C	#	6	#	55	46		
	Belfort ...	30.17	46	E	2	m	30.31	+0.26	42	41	-2	SE	1	bc	#	m	#	50	33		
	Lyons ...	30.19	45	SSE	1	7	30.29	+0.22	45	45	-5	E	1	bc	#	7	#	52	44		
	Nice ...	30.24	48	E	1	7	30.35	+0.16	49	48	0	Z	0	C	2	7	#	52	46		
	Perpignan ...	30.13	48	Z	0	6	30.25	+0.19	46	44	+3	Z	0	0	#	6	#	55	38		
PENIN- SULA.	Biarritz ...	29.98	57	SW	3	C	30.02	+0.05	59	50	+8	SSE	4	C	5	C	#	61	51		
	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
PENIN- SULA.	Lisbon ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
	Azores (P. Delgada)	29.80	53	NW	3	bc	29.80	-0.03	49	44	-13	NW	4	C	3	bc	#	63	48		

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 3.2 hrs;

WEATHER CHARTS

FOR Thursday, 16th December, 1897.

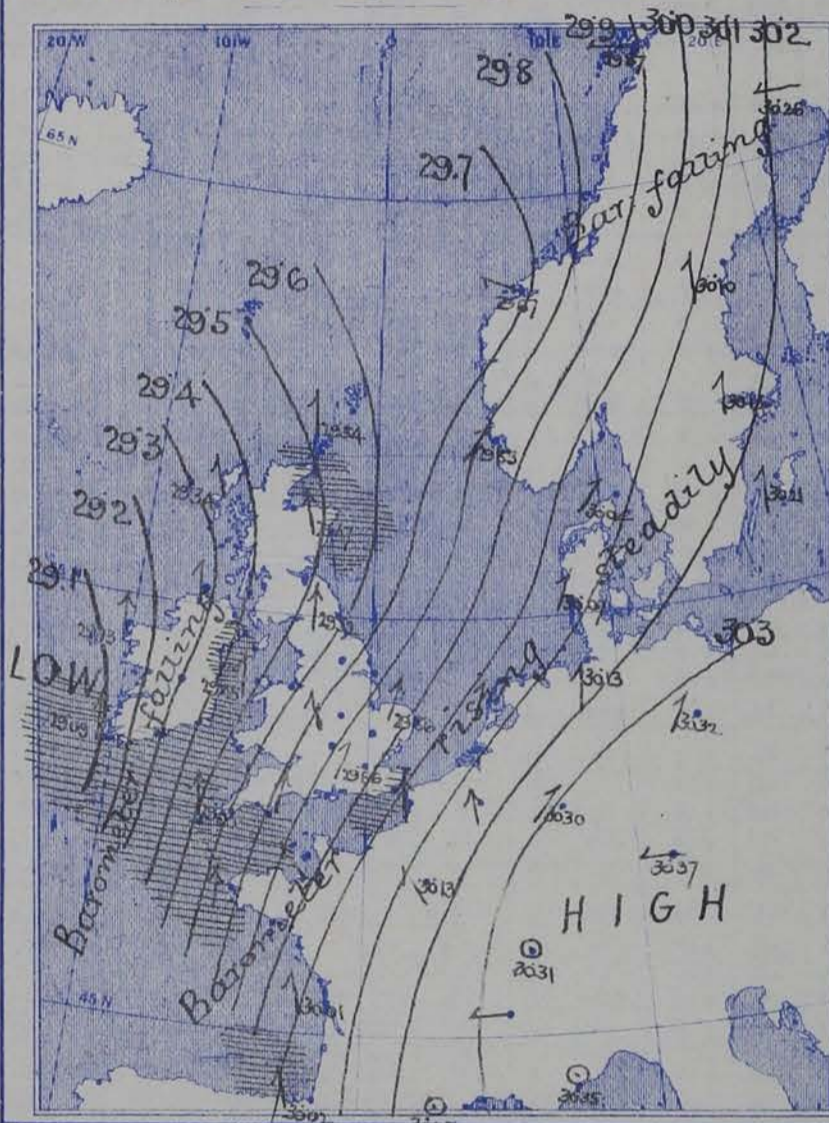
BAROMETER, WIND AND SEA.

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 ≡≡≡

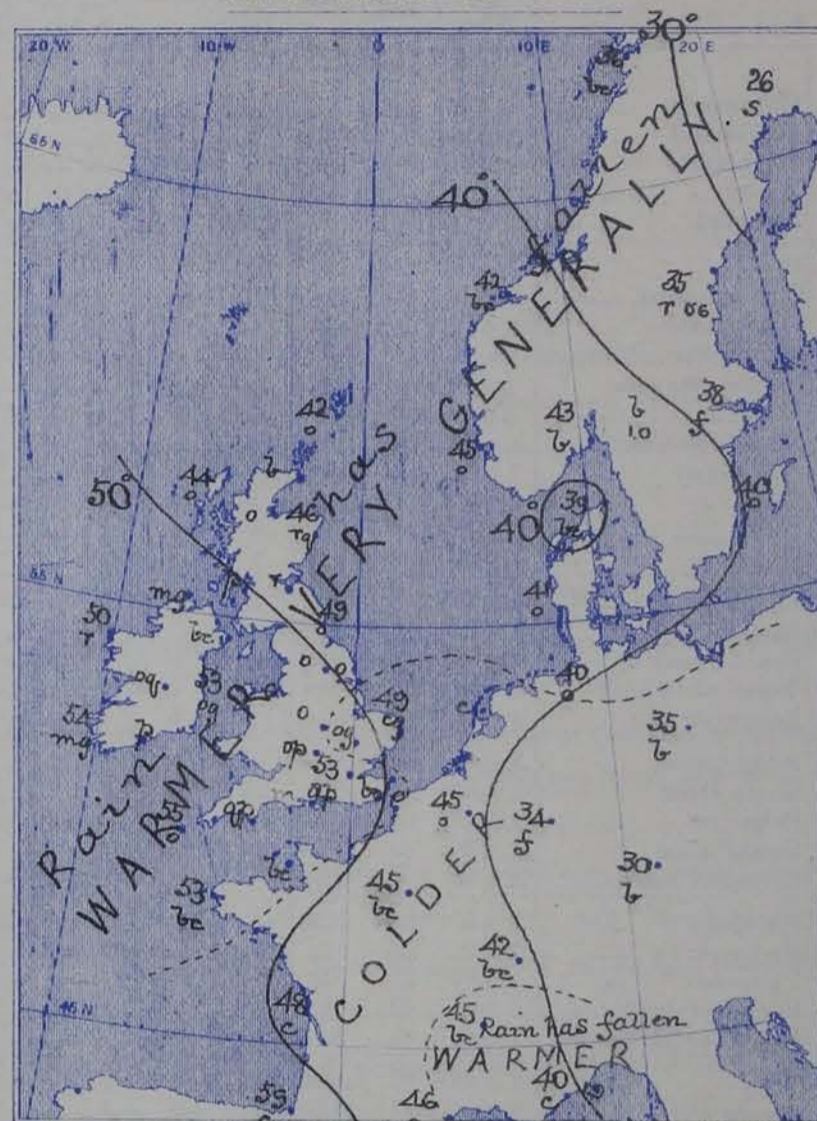


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1901	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in: and upwards, in an anticyclone lying over Germany, and the east and south of France.

Lowest, 29.1 in: and less, in a depression lying off the southwest of Ireland.

Gradients steep over Ireland and England, but moderate or slight elsewhere.

Barometer falling in all but the extreme southern part of our Islands and also in Sweden; rising in the western part of the Continent generally.

TEMPERATURE

Highest, 59° at Birr, 55° at Scilly, Bould Point, and Hunt Castle, and 54° at Jersey and Oxford.

Lowest, (1) 26° at Haparanda, and 35° at Hernösand; (2) 30° at Minich and 34° at Westbadu; lowest in our Islands 40° at Naun.

A considerable rise has taken place over Ireland and England, the change since yesterday amounting at Loughborough to 15°.

WIND

S^W over Western Europe generally, and strong in force on many parts of our western and southern coasts, with a gale at Rockburgh.

E in the north of Scandinavia; calm in the south of France.

WEATHER

Dull over the greater part of our Islands, with showers at several of our southern stations, and steady rain in the east of Scotland.

Fine at several of the French and German stations, and also in the west of Norway; rising in many parts of Sweden; snow falling at Haparanda.

Since yesterday morning rain has fallen over Northwestern Europe generally, the largest amount being 1.0 in: at Farslow, 0.6 in: at Hernösand, and 0.5 in: at Rockburgh. At Nice there has been as much as 1.9 in: Lightning was seen at Scilly last night.

SEA

Rough or rather so on all but our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the Irish coasts will probably move northwards, and occasion a considerable increase of wind over the northern parts of our Islands generally. In the south a temporary improvement in the weather is anticipated.

FORECASTS

For the 24 hours ending at NOON on 17th DEC: 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
<div> <div> <div>10</div> <div>SCOTLAND NORTH</div> </div> <div> <div>11</div> <div>SCOTLAND EAST</div> </div> <div> <div>2</div> <div>ENGLAND N.E.</div> </div> <div> <div>3</div> <div>ENGLAND EAST</div> </div> <div> <div>4</div> <div>MIDLAND COUNTIES</div> </div> <div> <div>5</div> <div>ENGLAND SOUTH</div> </div> </div>	<div> <div> <div>S^W winds, increasing to a gale; squally, rain at times.</div> </div> <div> <div>Same as N^o 5.</div> </div> <div> <div>S^W to S^W winds, strong; squally & showery at first, fair later, but not settled.</div> </div> </div>	<div> <div> <div>6</div> <div>SCOTLAND WEST</div> </div> <div> <div>7</div> <div>ENGLAND N.W.</div> </div> <div> <div>8</div> <div>ENGLAND S.W.</div> </div> <div> <div>9</div> <div>IRELAND NORTH</div> </div> <div> <div>10</div> <div>IRELAND SOUTH</div> </div> </div>	<div> <div>Same as N^o 0 and 1.</div> <div> <div>S^W to S^W gales and strong winds; squally, showery.</div> </div> <div>Same as N^o 0 and 1.</div> <div>Same as N^o 8.</div> <div> <div>At 7.5 pm yesterday to districts 5, and 7 to 10, and at 10.10 am today to districts 0, 1, and 6 "Hoist South Cone".</div> </div> </div>

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.56	46	42	ESE	4	0	2	Valencia ...	29.48	50	47	SE	2	0	4
Sumburgh Head	29.32	46	45	ESE	4	0	6	Scilly ...	29.63	53	52	S	4	0	5
Stornoway ...	29.21	43	41	W	1	0	1	Jersey ...	29.82	55	52	SSW	4	6	4
Aberdeen ...	29.26	44	43	SW	2	6c	5	Hurst Castle	29.77	52	48	WSW	3	6	3
Shields ...	29.40	46	44	WSW	3	c	2	Dungeness	29.77	50	48	SW	6	c	4
Ardrossan ...	29.36	47	46	WSW	4	6	3	North Foreland	29.75	50	47	SW	4	6	6
Malin Head ...	29.33	45	44	W	5	6c	3	London (Westminster)	29.73	52	47	WSW	4	6	#
Belmullet ...	29.48	48	44	WSW	2	6c	#	Yarmouth ...	29.66	49	44	SW	4	6	3
Holyhead ...	29.56	48	44	SW	4	6c	5	Rochefort ...	29.96	50	?	S	3	6c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning temporarily fine in places, but changeable and showery over our Islands generally. Fine over the Netherlands and also in Austria; dull in most of the other Continental countries, with rain in the south of Scandinavia, as well as in some parts of North Germany and Central Spain; snow falling at some of the Russian stations. Rain falling later over northwestern Europe generally, - heavily in places. Heavy rain occurring also at Nice. Lightning seen at Scilly at night.

Temperature risen in most countries, but fallen in many parts of Germany and Austria. Morning readings highest 61° at Malta, 59° at Algiers, and 56° at Bilbao and Lisbon; above 50° over the Bay of Biscay and the English Channel. Lowest 16° at Moscow, 18° at Haparanda, 19° at Hermannstadt, and 21° at Kharkov; below the freezing point in most parts of northern and eastern Europe. Rising later to between 50° and 55° at most of our own central and southern stations, as well as in the west of France, and reaching 61° at Biarritz.

Wind moderate to strong from the Wnd on most parts of our western and southern coasts, but back to SSW at Valencia (Ireland) strong from the Snd over the Netherlands and the east coast of Great Britain. Light to moderate from the SEnd over the northern, central, and eastern parts of the Continent; variable in Italy; Snd over France and the Spanish Peninsula. Subsequently veering to the Wnd in the northern and eastern parts of Great Britain, and falling light; backing to the Snd or SEnd on our southwest coasts, and increasing considerably in force.

Barometer highest 30.4 in. and upwards over Russia; 30.1 in. in an anticyclone covering nearly the whole of Eastern and Southern Europe. Lowest 29.1 in. and less in a depression off the northwest of Scotland. Depression subsequently moving northwards and filling up, but new disturbance approaching our southwest coast in evening.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Friday, 17th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
	BAROM.	TEMP.	WIND.		Weather		BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)		Hours of Bright Sun- shine.	TEMP.			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.)					Max.	Min.		
SCANDINAVIA.	Haparanda ...	Ins.	29	SE	2	S	29.99	-.27	26	26	0	SE	2	0	#	S	#	29	19	0.20	
	Hernösand ...	30.06	35	Z	0	S	29.85	-.25	35	34	0	Z	0	f	#	f	#	36	32	-	
	Stockholm ...	30.21	36	Z	0	0	29.98	-.16	40	39	+2	SSW	2	0	#	0	#	40	34	0.20	
	Wisby ...	30.30	38	W	4	0	30.10	-.11	42	41	+2	SW	6	0	#	0	#	42	32	0.16	
	Karlstad ...	30.08	39	S	2	r	29.89	-.13	42	41	+1	S	2	r	#	r	#	42	#	0.39	
	Bodö ...	29.90	37	E	4	0	29.71	-.16	37	33	+1	E	4	0	1	0	#	37	27	-	
	Christiansund ...	29.75	42	SE	2	0	29.53	-.14	45	41	+3	SE	3	0	3	0	#	45	41	0.04	
	Skudesnaes ...	29.70	46	SE	7	0	29.77	-.06	47	46	+2	S	6	0	5	r.o	#	48	39	#	
	Færder (Christiania Fjord)	29.97	42	SSE	5	r	29.86	-.06	45	44	+2	SSW	5	0	4	r	#	45	41	0.32	
	Skagen (The Scaw)	29.98	42	SW	5	r	29.98	-.06	48	47	+9	SW	4	0	1	r	#	48	37	0.47	
	Fanö ...	30.07	44	SW	4	0	30.13	+0.06	44	43	+3	SW	4	c	#	0	#	45	41	-	
	Sumburgh Head	29.34	47	S	3	c	29.40	-.14	48	47	+6	SSW	4	r	5	r.c	#	49	42	0.11	
	Stornoway ...	29.20	49	SSW	4	r	29.41	+0.07	48	48	+4	SW	4	r	5	o.r	0.0	50	41	0.25	
	Wick ...	29.33	46	W	2	0	29.46	+0.02	48	45	+3	WSW	4	0	4	0	#	49	44	0.03	
	Nairn ...	29.31	50	WSW	4	b	29.53	+0.13	50	46	+10	WSW	3	0	1	0	#	51	39	-	
BRITISH ISLANDS.	Aberdeen ...	29.44	48	S	4	bcy	29.66	+0.19	49	45	+3	SW	4	bcy	4	o.bcy	0.0	50	46	0.05	
	Leith ...	29.46	50	S	2	0	29.76	+0.35	51	46	+6	WSW	1	bcy	#	0	#	56	43	0.01	
	Shields ...	29.64	53	SSW	2	om	29.86	+0.34	50	48	+1	SSW	4	c	2	c.om	#	55	47	-	
	Spurn Head ...	29.77	50	S	5	0	30.00	+0.34	46	45	-2	S	4	bc	4	0	#	52	46	-	
	York ...	29.69	56	S	3	0	29.97	+0.33	53	50	+1	S	3	c	#	r.o	0.0	57	50	0.20	
	Loughborough ...	29.78	56	SW	6	0	30.03	+0.25	48	47	-5	SSE	2	cu	#	ogp.c.0	#	58	48	0.01	
	Ardrossan ...	29.40	52	SSE	7	om	29.78	+0.42	50	50	-1	S	5	om	4	om	#	52	49	-	
	Malin Head ...	29.19	50	SSW	6	cp	29.66	+0.50	49	48	-1	SSW	6	op	2	tl.o.cp	#	52	40	0.01	
	Belmullet ...	29.27	51	SW	8	cq.p	29.81	+0.68	50	48	0	W	3	0	#	cq.p	#	52	47	0.34	
	Donaghadee ...	29.44	52	SSW	7	c	29.78	+0.47	49	48	-1	SW	5	bc	3	c	#	53	48	0.01	
	Liverpool (Bidston)	29.68	54	SSW	3	c	29.93	+0.38	57	52	+5	SSW	4	0	3	c	#	57	51	0.09	
	Holyhead ...	29.59	53	SSW	7	ogm	2.89	+0.44	50	49	-3	SSW	3	dm	2	ogm.ogm	#	54	48	0.14	
	Parsonstown ...	29.41	53	S	4	o	29.86	+0.56	45	44	-6	Z	0	0	#	cq.o	1.4	54	45	-	
	Valencia ...	29.44	52	S	6	bcy	29.86	+0.77	51	50	-3	S	1	ogm	4	bc.og	0.0	54	47	0.01	
	Roche's Point ...	29.57	52	SW	8	b	29.91	+0.62	50	50	-3	SSW	2	r	4	b	#	54	49	-	
GERMANY & HOLLAND.	Pembroke (St. Ann's Hd.)	29.70	54	SW	6	0	29.96	+0.47	54	52	+1	SSW	5	og	4	0	0.0	54	52	0.05	
	Scilly ...	29.69	53	SSW	4	opm	29.95	+0.42	54	53	-1	SSE	5	c	5	om.omp	0.0	56	50	0.08	
	Prawle Point ...	29.89	54	S	6	c	30.07	+0.34	51	50	-4	S	2	bc	4	cq.p.c	#	56	42	0.01	
	Jersey (St. Aubin's)	30.00	54	SSE	4	c	30.15	+0.23	50	49	-4	SE	3	bcy	3	c.bcy	#	55	49	0.01	
	Hurst Castle ...	29.95	55	SSW	5	c	30.11	+0.29	52	50	-3	SSW	3	cm	2	c	#	56	52	-	
	Dungeness ...	30.03	53	S	5	c	30.17	+0.26	50	49	-1	S	4	bcy	3	c	#	53	50	0.01	
	North Foreland	30.05	52	S	6	c	30.17	+0.23	50	48	-1	S	4	bc	3	c.cq	#	53	48	0.01	
	London (Brixton) ...	29.97	53	S	4	bc	30.13	+0.29	49	47	-4	S	1	bc	#	bc.b	0.1	56	48	-	
	Oxford ...	29.92	55	SW	5	b	30.09	+0.33	49	48	-5	SSE	2	0	#	og.b	#	58	48	-	
	Cambridge ...	29.91	53	S	5	0	30.12	+0.31	48	47	-4	S	2	bc	#	og	0.5	57	45	-	
	Yarmouth ...	29.95	49	SSW	4	bc	30.11	+0.25	48	46	-1	SSW	3	bc	3	c.bc	#	51	45	-	
	Cuxhaven ...	30.13	45	S	5	0	30.23	+0.10	42	42	+2	S	3	0	#	0	#	48	40	-	
	Berlin ...	30.36	37	SE	4	b	30.39	+0.07	35	34	0	Z	0	0	#	0	#	41	34	-	
	Wiesbaden ...	#	#	#	#	#	30.43	+0.13	32	31	-2	S	1	f	#	#	#	41	20	-	
FRANCE & BELGIUM.	Munich ...	30.42	33	NE	2	b	30.50	+0.13	26	26	-4	E	2	0	#	0	#	46	25	-	
	The Helder ...	30.06	49	EHE	4	b	30.18	+0.19	41	40	-4	S	1	0	#	0	#	48	41	-	
	Brussels ...	#	#	#	#	#	30.30	+0.19	44	43	-1	SSE	3	bc	#	0	#	54	43	-	
	Cape Gris Nez ...	30.01	54	SSW	5	c	30.11	+0.21	50	46	-1	S	3	c	3	c	#	55	46	-	
	Paris ...	30.20	51	SSE	2	b	30.28	+0.15	41	41	-4	SE	2	0	#	0	#	56	38	-	
	Brest ...	29.88	57	S	4	c	30.02	?	53	52	0	EHE	3	bc	5	0	#	?	48	-	
	Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Rochefort ...	30.08	52	SSE	3	b	30.09	+0.08	48	47	0	SE	3	0	#	bc.b	#	56	46	-	
	Belfort ...	30.31	46	EHE	2	b	30.42	+0.11	36	35	-6	EHE	3	0	#	0	#	53	33	-	
	Lyons ...	30.32	50	SSE	1	b	30.38	+0.09	44	43	-1	S	1	0	#	0	#	59	43	-	
	Nice ...	30.38	49	EHE	1	b	30.43	+0.08	47	43	-2	Z	0	0	#	0	#	59	46	-	
	Perpignan ...	30.25	53	SE	1	b	30.31	+0.06	53	53	+7	S	3	c	#	0	#	57	46	-	
	Biarritz ...	30.04	63	S	4	b	30.05	+0.03	60	51	+1	S	3	0	#	0	#	66	48	-	
PENIN- SULA.	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Lisbon ...	29.97	57	SE	4	b	29.89	-.19	56	53	-2	SSE	5	0	#	0	#	64	55	-	
	Azores (P. Delgada)	29.78	47	WHE	4	r	29.81	+0.01	50	45	+1	W	4	c	3	r	#	57	45	0.20	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 4.5 hrs;

WEATHER CHARTS

FOR Friday, 17th December, 1897.

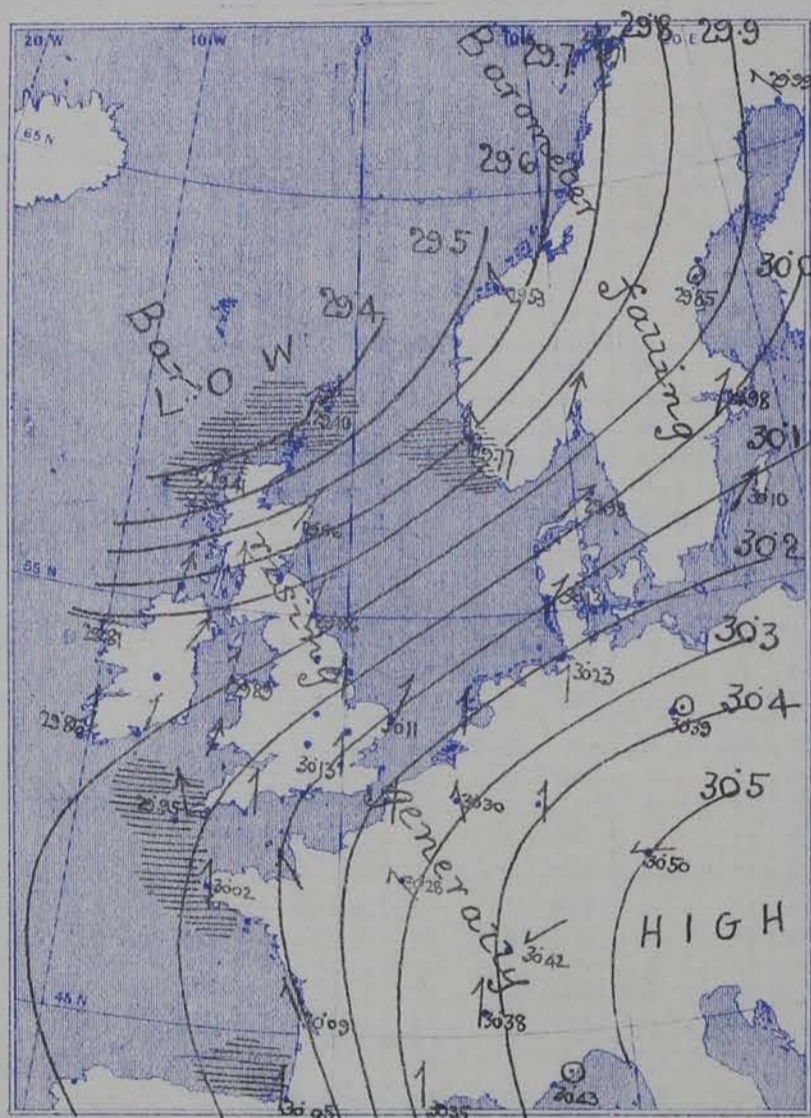
BAROMETER, WIND AND SEA.

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 ≡≡≡

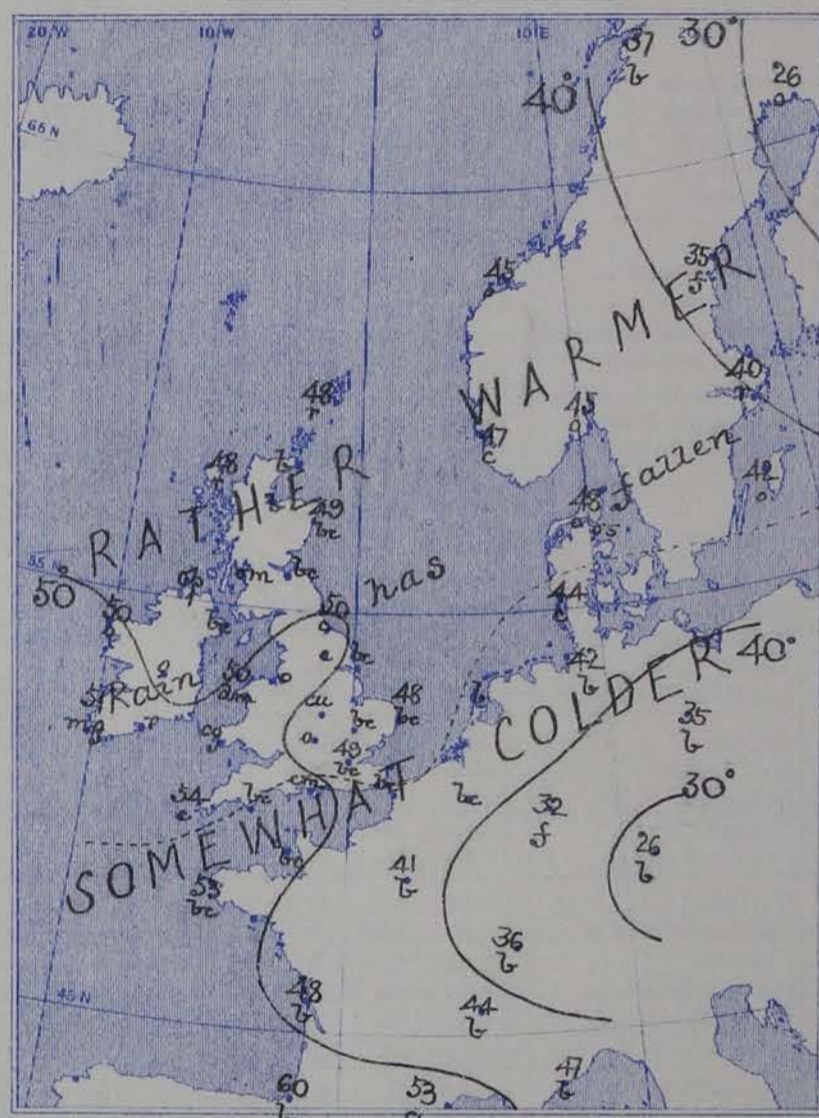


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.50 mi: at Munich; 30.1 mi: and upwards in an anticyclone extending from Central Europe over France and the southwest of England.
Lowest, 29.4 mi: and less, in a depression lying to the northwest of Scotland.
Gradients rather steep over the northern parts of our Islands and the North Sea, but moderate or slight elsewhere.
Barometer rising generally, but falling in Scandinavia and also at Lisbon.

TEMPERATURE

Highest, (1) 60° at Biarritz and 56° at Lisbon; (2) 57° at Liverpool, 54° at Kilmorke and Selly, and 53° at York and Brest.
Lowest, (1) 26° at Haparanda and 35° at Hernösand; (2) 26° at Munich, 32° at Wiesbaden, and 33° at Berlin.
During yesterday the thermometer rose to 55° and upwards in many part of England and Ireland, and to 58° at Loughborough and Oxford.

WIND

light to moderate from the SE¹ in France and from the S² over England and the south of Ireland. SW¹ in the north of our Islands and also in Denmark; S¹ in the south of Scandinavia; SE¹ to E¹ over the northern part of Scandinavia.

WEATHER

fine in the eastern part of Great Britain, as well as in France, Germany, and the Netherlands. Cloudy or dull elsewhere, with showers at some of our western stations, and steady rain in the Fetherlands and Hybrides, as well as in the south of Sweden. Frosts fell yesterday in many parts of the United Kingdom, and larger amounts of rain at some of the Scandinavian and Danish stations. Thunder and lightning occurred yesterday morning at Malin Head, and a bear halo was seen this morning at Thurston.

SEA

Rather rough off the north of Scotland and at Skudermoes, as well as at Scilly and Rhinitz, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of the advance of any new depression, and fair weather is likely to continue for a time over the eastern parts of our Islands. The conditions, however, are not yet settled.

FORECASTS

For the 24 hours ending at NOON on 18TH DEC^R 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
† 0	SCOTLAND NORTH	} SW ^{2y} winds, strong in places; mild, changeable, some showers.	† 6	SCOTLAND WEST	} S ^{2y} to SW ^{2y} winds, strong in places; cloudy, some rain.
† 1	SCOTLAND EAST		† 7	ENGLAND N.W.	
2	ENGLAND N.E.	} Same as N ^o 5.	8	ENGLAND S.W.	S ^{2y} winds, moderate or fresh; cloudy, rain locally.
3	ENGLAND EAST		† 9	IRELAND NORTH	Same as N ^{os} 6 and 7.
4	MIDLAND COUNTIES		10	IRELAND SOUTH	Same as N ^o 8.
5	ENGLAND SOUTH		WARNINGS		At 10.20 am to districts 5, 8, and 10 Lower Cone. The signals are still firing in districts 0, 1, 6, 7 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*.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.84	45	41	SE	6	r	4	Valencia ...	29.19	54	50	S	8	bc	7
Sumburgh Head	29.40	46	46	S	3	r	5	Scilly ...	29.65	55	55	S	6	m	6
Stornoway ...	29.21	50	49	S	4	p	4	Jersey ...	29.96	55	53	SE	5	c	5
Aberdeen ...	29.42	49	47	S	3	bc	4	Hurst Castle ...	29.89	55	52	SSW	5	c	3
Shields ...	29.59	53	52	SSW	3	c	2	Dungeness ...	29.98	52	51	SSW	6	c	6
Ardrossan ...	29.37	52	51	SSE	6	o	6	North Foreland	30.00	52	50	S	4	c	3
Malin Head ...	29.13	52	51	S	5	o	2	London (Westminster)	29.89	56	52	SSW	4	bc	#
Belmullet ...	29.06	50	48	SW	6	cgyr	#	Yarmouth ...	29.91	51	49	SSW	4	c	4
Holyhead ...	29.50	53	51	SSW	7	ogym	6	Rochefort ...	30.04	56	53	SSE	3	bc	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning dull over the greater part of our Islands, with showers at several of our southern stations, and steady rain in the east of Scotland. Fine in Norway, western Germany and France, but cloudy in most other parts of the Continent, with fog in South Germany, and rain at some of the Swedish stations as well as at Lisbon; snow falling in Lapland. Sky clearing later over the Eastern part of Great Britain, but showers falling in the west and thunderstorms occurring at Malin Head. Considerable amounts of rain reported at some of the Scandinavian and Danish stations.

Temperature risen generally, but fallen in France, Germany and Italy. Morning readings highest 62° at Bilbao, 61° at Messina, and 60° at Malta, touching 55° at some of the English Channel stations, and above 50° over the central and southern parts of our Islands generally. Lowest 2° at Archangel, 10° at Moscow, 18° at Arkharov, and 26° at Haparanda. Rising during day to 55° and upwards at several of the English and Irish stations and to 58° at Loughborough and Oxford; exceeding 60° in the extreme south of France, and reaching 66° at Biarritz.

Wind S over western and northern Europe generally; strong in force on many parts of our western and southern coasts, with a gale at Rock Point. Light from the N^W in the south of Russia; variable over Italy, Austria, and the south of France. Subsequently increasing to a gale from the S^W or SW^W in the northwest of our Islands, and also in the east of Scotland.

Barometer highest 30.5 in. and upwards over the northern parts of Russia; 30.2 in. and upwards in an anticyclone embracing nearly the whole of Eastern, central, and southern Europe. Lowest 29.1 in. and less in a deep depression off the west of Ireland. Depression subsequently moving northwards, and barometer rising briskly on our western coasts.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 18th December, 1897.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.								Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	Weather	At 32° Fahr. and M.S.L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12.)	Weather.	Sea (0 to 9.)		Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	29.82	25	E	4	o	29.68	- .31	25	25	- 1	NE	2	o	5		o	#	28	21	0.08
	Hernösand ...	29.65	34	E	0	f	29.68	- .17	33	32	- 2	E	0	f	5		f	#	36	32	-
	Stockholm ...	29.90	44	SW	4	c	29.76	- .22	43	42	+ 3	W	4	o	5		f	#	45	36	0.12
	Wisby ...	30.01	45	W	8	o	29.87	- .23	43	42	+ 1	W	6	bc	5		o	#	48	36	-
	Karlstad ...	29.82	45	SW	2	o	29.78	- .11	42	40	0	WSW	2	o	5		o	#	#	#	0.12
	Bodo ...	29.58	37	E	4	b	29.50	- .21	36	32	- 1	E	4	o	1		b	#	37	32	-
	Christiansund ...	29.50	45	S	2	r	29.77	+ .24	44	39	- 4	W	8	o	5		r	#	45	39	0.24
	Skudesnaes ...	29.83	47	S	4	o	29.99	+ .22	44	41	- 3	WNW	2	o	3		m.o	#	47	37	#
	Færder (Christiania Fjord)	29.82	44	SW	6	m	29.80	- .06	43	42	- 2	WSW	6	b	4		m	#	45	43	-
	Skagen (The Seaw)	29.95	46	WSW	4	o	29.91	- .07	45	44	- 3	WNW	5	o	1		o	#	48	45	0.08
BRITISH ISLANDS.	Fanö ...	30.13	44	SW	4	b	30.20	+ .07	44	44	0	SW	4	m	5		b	#	45	43	-
	Sumburgh Head	29.65	47	W	3	o	29.97	+ .57	44	42	- 4	WNW	2	c	4		c.o	#	50	42	0.08
	Stornoway ...	29.82	44	W	2	bc	30.13	+ .72	38	36	- 10	W	2	c	2		o.bc	#	48	35	0.08
	Wick ...	29.84	46	W	2	c	30.07	+ .61	41	40	- 7	W	3	o	2		c	#	50	38	0.05
	Nairn ...	29.83	49	WSW	2	c	30.15	+ .62	42	40	- 8	W	1	bc	1		c	#	51	39	-
	Aberdeen ...	29.87	46	E	4	bcq	30.17	+ .51	39	37	- 10	SW	2	bc m	2		bc q	#	52	39	-
	Leith ...	29.91	47	WSW	3	b	30.19	+ .43	44	43	- 7	WSW	2	bc m	#		b	#	52	43	-
	Shields ...	30.01	53	SW	2	o	30.21	+ .35	49	48	- 1	WSW	1	a	2		c.o	#	53	47	-
	Spurn Head ...	30.11	46	SSW	2	b	30.25	+ .25	40	39	- 6	WSW	2	bc	2		b.bw	#	51	39	0.01
	York ...	30.07	53	S	2	bc	30.27	+ .30	40	40	- 13	S	1	f	#		o.bc	#	56	39	-
GERMANY & HOLLAND.	Loughborough ...	30.16	49	S	1	c	30.28	+ .25	43	43	- 5	W	1	og m	#		bc.c,om	#	57	43	-
	Ardrossan ...	29.98	50	S	4	om	30.23	+ .45	43	43	- 7	Z	0	bc f w	1		om	#	50	42	-
	Malin Head ...	29.98	47	SW	3	og	30.23	+ .57	46	46	- 3	W	1	c q	0		o.og	#	50	46	0.02
	Belmullet ...	30.05	47	S	1	o	30.20	+ .39	46	45	- 4	W	2	o	#		o	#	50	45	0.02
	Donaghadee ...	30.04	49	SW	2	o	30.23	+ .45	47	47	- 2	W	3	o	1		o	#	51	45	0.02
	Liverpool (Bidston)	30.11	54	SSW	2	c	30.25	+ .32	42	41	- 15	SW	1	f	#		c	#	57	44	-
	Holyhead ...	30.08	52	SW	2	b	30.22	+ .33	50	49	0	SW	3	og m	2		r.og f, o	#	52	48	0.03
	Parsonstown ...	30.04	49	Z	0	o	30.21	+ .35	45	45	0	Z	0	om	#		c.o	#	51	43	-
	Valencia ...	29.99	52	SE	2	c	30.15	+ .29	43	42	- 8	E	1	b	3		og m, c	#	53	41	0.07
	Roche's Point ...	30.07	50	SE	2	b	30.19	+ .28	50	50	0	SE	3	m	4		o.f.b	#	53	45	0.10
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.12	54	Z	0	o	30.23	+ .27	49	48	- 5	SE	4	og m	4		c.o	#	54	48	-
	Scilly ...	30.07	54	SE	3	om	30.16	+ .21	53	52	- 1	SE	3	cw	4		c. om	#	56	51	-
	Prawle Point ...	30.17	52	SE	2	o	30.26	+ .19	50	49	- 1	SE	2	bc	3		c	#	55	49	-
	Jersey (St. Aubin's)	30.21	51	SE	2	c q	30.27	+ .12	48	47	- 2	NE	1	bmw	1		bc.cq	#	53	46	-
	Hurst Castle ...	30.22	48	SE	1	b	30.30	+ .19	44	43	- 8	ENE	1	f	2		om.bm	#	53	41	-
	Dungeness ...	30.23	50	SSW	2	b	30.33	+ .16	36	36	- 14	W	1	m w	1		c.b	#	54	35	-
	North Foreland	30.23	48	S	2	b	30.34	+ .17	46	45	- 4	SW	1	m w	1		bc.b	#	53	44	-
	London (Brixton) ...	30.21	48	S	2	bc	30.32	+ .19	41	41	- 8	Z	0	f	#		bc.b, f w	#	57	39	-
	Oxford ...	30.25	48	SSW	2	o	30.32	+ .23	42	42	- 7	SSW	1	f	#		o.bc.o	#	55	42	-
	Cambridge ...	30.21	47	S	2	bm	30.32	+ .20	42	42	- 6	SW	1	f	#		o.bm	#	56	41	-
GERMANY & HOLLAND.	Yarmouth ...	30.17	48	SW	1	bc	30.27	+ .16	38	37	- 10	WSW	2	bc	3		bc	#	52	36	-
	Cuxhaven ...	30.25	45	SW	3	b	30.23	0.00	41	41	- 1	SW	2	f	#		b	#	48	41	-
	Berlin ...	30.36	38	Z	0	b	30.31	- .08	37	36	+ 2	SW	3	b	#		b	#	43	35	-
	Wiesbaden ...	#	#	#	#	#	30.46	+ .03	31	31	- 1	SW	1	f	#		#	#	36	28	-
	Munich ...	30.49	27	SE	3	f	30.48	- .02	21	21	- 5	E	1	f	#		f	#	34	21	-
	The Helder ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#	#
	Brussels ...	#	#	#	#	#	30.39	+ .09	39	39	- 5	SE	1	c	#		b	#	55	39	-
	Cape Gris Nez ...	30.19	51	WSW	3	c	30.26	+ .15	47	44	- 3	SW	2	m	2		c	#	54	43	-
	Paris ...	30.32	45	SE	1	b	30.37	+ .09	30	30	- 11	ENE	1	f	#		b	#	55	30	-
	Brest ...	30.12	53	ESE	3	o	30.20	+ .18	50	48	- 3	ESE	3	bc	4		o	#	55	45	-
FRANCE & BELGIUM.	Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#	#
	Rochefort ...	30.16	35	SE	3	c	30.19	+ .10	46	45	- 2	ESE	2	b	#		b.c	#	57	45	-
	Belfort ...	30.41	42	NE	1	b	30.46	+ .04	35	34	- 1	E	1	f	#		b	#	51	35	-
	Lyons ...	30.41	45	ESE	1	b	30.47	+ .04	36	36	- 8	W	1	f	#		b	#	57	35	-
	Nice ...	30.43	49	E	2	b	30.42	- .01	44	42	- 3	Z	0	b	2		b	#	59	44	-
	Perpignan ...	30.36	52	ENE	1	b	30.36	+ .05	51	51	- 2	SE	1	o	#		b	#	60	48	-
	Biarritz ...	30.12	55	SE	3	b	30.12	+ .07	51	45	- 9	E	4	b	2		b	#	66	43	-
PENIN- SULA.	Corunna ...	29.95	56	S	3	o	29.76	- .13	51	47	- 5	ENE	6	b	#		o	#	61	50	-
	Lisbon ...	29.83	50	ENE	8	bc	29.07	- .74	50	47	0	W	8	bc	8		bc	#	55	46	0.16
	Azores (P. Delgada)	#	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#	#

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page

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

Bright Sunshine yesterday Southport 0.6 hrs;

WEATHER CHARTS

FOR *Saturday, 18th December, 1897.*

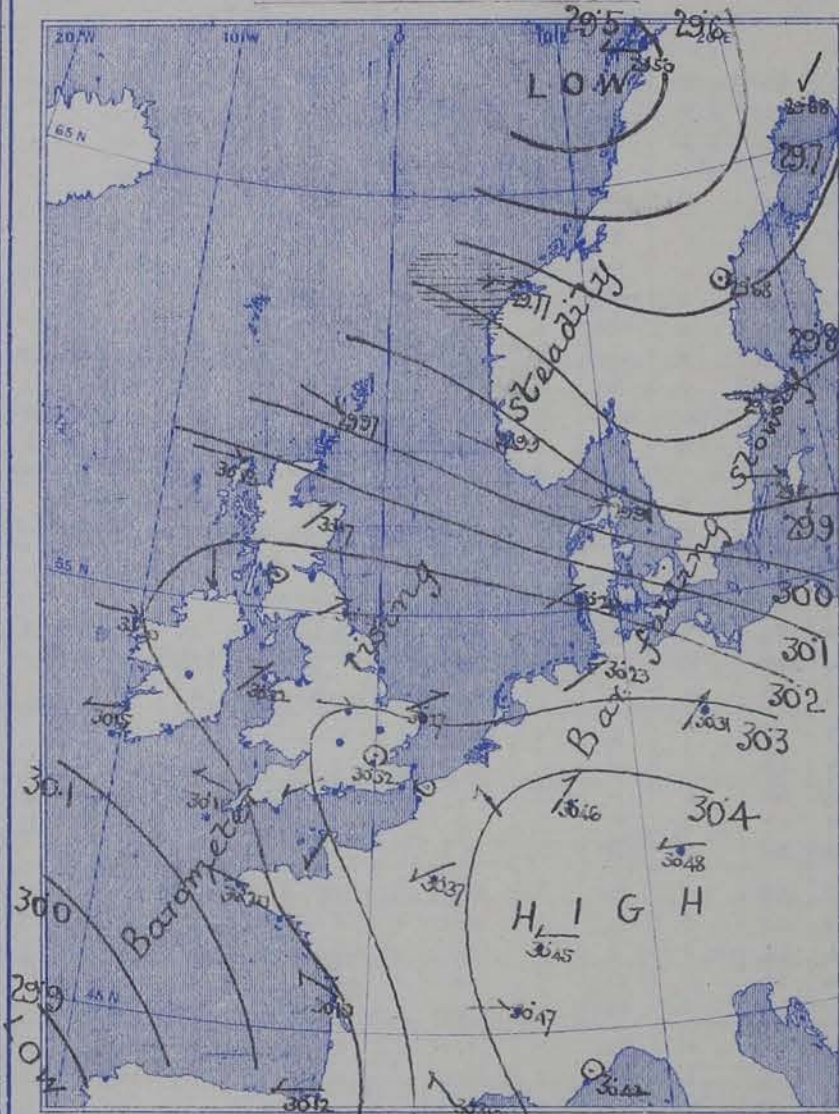
BAROMETER, WIND AND SEA.

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

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

Force above 10 \rightarrow ; Force 5 to 7 \rightarrow ; } Calm \odot
Force 8 to 10 \rightarrow ; Force 1 to 4 \rightarrow ; }

SEA—Rough \equiv ; High \equiv

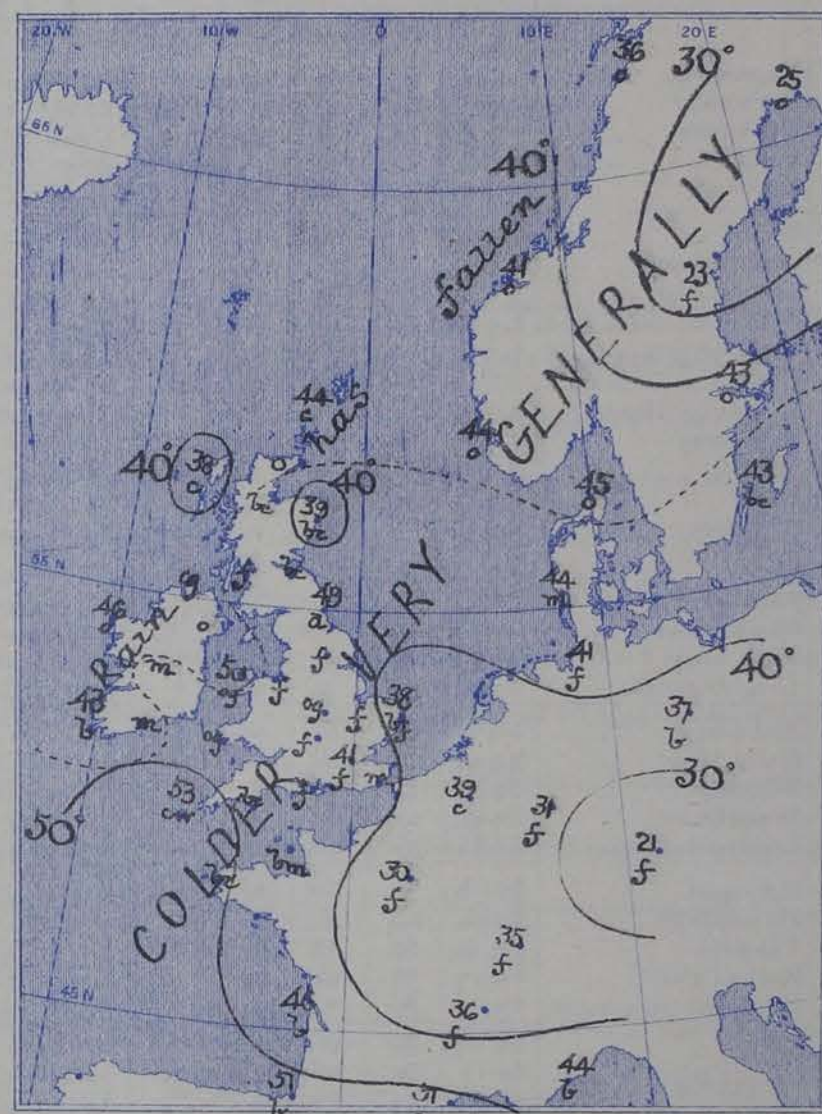


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871-95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866-95.	BRIGHT SUNSHINE. Means, 1881-95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and upwards over South Germany and the east and south of France; 30.2 in. and upwards in an anticyclone extending from Central Europe over England and the greater part of Ireland.
 Lowest, 29.5 in. and less, in a depression off the northwest of Norway.
 Gradients slight generally, but moderate over the Baltic and south of Sweden.
 Barometer rising at all but the Swedish and German stations.

TEMPERATURE

Highest, 53° at Lill, 51° at Biarritz and Linton, and 50° at Rochefort, Boulogne, and Brest.
 Lowest, (1) 21° at Munich and 30° at Paris; (2) 25° at Haparanda and 33° at Hornö; lowest in our Islands 36° at Dingwall, and 38° at Yarmouth and Stromness.
 During yesterday the thermometer again rose to between 50° and 55° in most parts of the United Kingdom, and to 57° in London and at Loughborough and Liverpool.

WIND

Slight from the End or SEnd over France and the southeast of our Islands.
 Wnd or SWnd on our north and east coasts, as well as over Denmark, North Germany, and the greater part of Scandinavia, with a gale at Christiansund; End in the north of Scandinavia.

WEATHER

Foggy or misty over Western Europe as a whole, but fine and bright in the west of France, and also on some parts of our own southwest coasts. Dull at most of the Scandinavian stations.
 Slight rain fell yesterday in Ireland and the north of Scotland, as well as in some parts of Scandinavia and Denmark. A solar halo was seen at Jersey.

SEA

Moderate to smooth generally, but rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The Continental anticyclone is still spreading westwards, and fair dry weather seems likely to continue for a time, with a further reduction in temperature. Fog and mist are, however, probable in many districts.

FORECASTS

For the 24 hours ending at NOON on 19th DEC^r 1897.

DISTRICTS.

FORECASTS.

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

Wnd and SWnd winds, light; fair generally, but some mist or fog.
 SWnd to Snd or SEnd winds, light; foggy or misty, colder.
 Variable or End airs; foggy or misty, colder.

DISTRICTS.



FORECASTS.

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

Same as N^{os} 2 to 4.
 End and SEnd winds, light or moderate; fair generally, colder.
 Wnd to Snd winds, light; fair generally.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.82	47	46	S	5	m	5	Valencia ...	29.96	50	49	Z	0	ogm	4
Sumburgh Head ...	29.50	49	48	r	4	c	6	Scilly ...	30.02	55	54	SE	4	c	4
Stornoway ...	29.65	48	47	w	3	o	3	Jersey ...	30.18	53	51	SE	3	bc	3
Aberdeen ...	29.73	51	46	sw	4	bcq	4	Hurst Castle ...	30.17	52	50	SSW	1	om	2
Shields ...	29.96	53	50	sw	3	c	2	Dungeness ...	30.20	52	51	SSW	3	c	2
Ardrossan ...	29.89	50	50	S	4	om	3	North Foreland ...	30.20	53	51	S	3	bc	2
Malin Head ...	29.84	49	49	SSW	5	o	3	London (Westminster) ...	30.17	56	53	SW	2	bc	#
Belmullet ...	29.96	49	47	w	2	o	#	Yarmouth ...	30.13	49	47	S	2	bc	3
Holyhead ...	30.02	52	52	sw	3	ogf	2	Rochefort ...	30.15	57	54	SE	3	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine in the eastern parts of Great Britain, as well as over North Germany, the Netherlands, France, and Italy. Cloudy, or dull elsewhere, with showers at some of our own western stations, and steady rain in the Shetlands and Hebrides, as well as in the Baltic Provinces and the south of Sweden; snow falling at Archangel and Moscow. Foggy over Austria and South Germany. A little rain falling later in Ireland and the north of Scotland, as well as at some of the Scandinavian and Danish stations.

Temperature risen a little over the northern parts of Great Britain, as well as in Norway, Denmark, and North Germany. fallen elsewhere. Morning readings highest, (1) 60° at Biarritz, Bilbao, and Malta, and 58° at San Fernando; (2) 57° at Liverpool and 54° at Pembroke and Scilly; above 50° in many parts of England. Lowest 9° at Archangel, 13° at Kharkov, and 14° at Moscow, below the freezing point in some parts of Austria and South Germany. Rising during day to between 50° and 55° in most parts of our Islands, and to 57° in London and at Loughborough and Liverpool, exceeding 60° in the south of France.

Wind E³ or SE³ over France and the Spanish Peninsula, with a gale at San Fernando. Light to moderate from the S² over England, the Netherlands and Germany; SW³ over the northern part of our Islands, Denmark, and the south of Sweden; SE³ or E³ over the northern part of Scandinavia. Light from the N² in the south of Russia, calm in Austria, variable in Italy. No important change occurring later.

Barometer highest 30.6 in. and upwards over the south of Russia; 30.2 in. and upwards in an anticyclone lying over nearly the whole of Eastern, Central, and Southern Europe. Lowest 29.4 in. and less, in a depression lying to the northward of Scotland. Anticyclone spreading later over the southeastern part of our Islands; depression in north travelling north-eastwards.

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.
N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 19th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				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.	Rainfall.
Ins.		°				Ins.	Ins.	°	°	°							°	°	Ins.		
SCANDINAVIA.	Haparanda ...	29.75	23	E	2	m	29.93	+ .25	21	19	- 4	NNE	2	s	#	m	#	27	19	0.32	
	Hernösand ...	29.74	35	Z	0	b	29.98	+ .30	37	35	+ 4	Z	0	0	#	b	#	37	30	-	
	Stockholm ...	29.78	37	SW	4	r	29.95	+ .19	37	36	- 6	NW	4	0	#	r	#	45	37	-	
	Wisby ...	29.76	41	NW	3	0	29.93	+ .06	37	36	- 6	NNW	6	bc	#	0	#	43	37	0.08	
	Karlstad ...	29.91	36	W	2	c	30.13	+ .35	36	34	- 6	W	4	b	#	c	#	#	#	0.08	
	Bodö ...	29.81	38	E	4	r	30.13	+ .63	38	34	+ 2	E	4	0	1	r	#	38	32	0.28	
	Christiansund ...	30.01	43	WSW	3	r	30.34	+ .57	42	40	+ 1	N	3	r	5	r	#	42	39	0.43	
	Skudesnaes ...	30.15	42	NW	4	c	30.35	+ .36	43	41	- 1	NNW	3	0	2	bc, c	#	45	37	#	
	Færder (Christiania Fjord)	29.94	42	WNW	2	b	30.16	+ .36	40	37	- 3	WSW	2	b	2	b	#	43	39	-	
	Skagen (The Seaw)	29.99	42	NW	4	b	30.22	+ .31	42	39	- 3	N	1	b	0	b	#	45	41	-	
Faro ...	30.20	41	WSW	4	b	30.29	+ .09	39	38	- 5	NW	2	b	#	b	#	45	39	-		
BRITISH ISLANDS.	Sumburgh Head	30.23	45	NW	2	0	30.42	+ .45	43	40	- 1	Z	0	0	3	c, 0	#	46	37	0.01	
	Stornoway ...	30.28	37	W	1	b	30.33	+ .20	30	30	- 8	WNW	2	bc	2	bc, b	34	45	28	-	
	Wick ...	30.30	40	NW	3	c	30.38	+ .31	42	41	+ 1	SSW	1	b	2	c	#	44	34	0.02	
	Nairn ...	30.22	35	SW	1	b	30.40	+ .25	25	23	- 17	WSW	1	b	1	b	#	45	21	-	
	Aberdeen ...	30.34	37	W	1	b	30.45	+ .28	30	29	- 9	W	1	bc, m	1	b	53	44	30	-	
	Leith ...	30.34	42	W	2	bc	30.41	+ .22	33	33	- 11	Z	0	b	#	bc	#	48	27	-	
	Shields ...	30.30	45	WSW	2	b	30.44	+ .23	32	32	- 17	SW	1	f	2	c, b	#	50	31	-	
	Spurn Head ...	30.30	45	N	3	0	30.40	+ .15	43	42	+ 3	NE	2	bc	3	0, w	#	45	39	0.01	
	York ...	30.31	47	S	1	0	30.43	+ .16	34	33	- 6	N	1	b	#	0, f	0.0	47	34	-	
	Loughborough ...	30.33	43	ESE	1	f	30.38	+ .10	43	42	0	E	2	ogm	#	f, f, om	#	45	42	-	
GERMANY & HOLLAND.	Ardrossan ...	30.31	41	N	1	bf	30.39	+ .16	36	36	- 7	NNE	3	ofw	2	bf	#	48	35	-	
	Malin Head ...	30.27	45	SE	2	b	30.29	+ .06	46	46	0	SE	4	ogm	4	0, b	#	50	43	-	
	Belmullet ...	30.21	46	E	2	b	30.24	+ .04	46	45	0	SE	1	0	#	0, b	#	51	42	0.01	
	Donaghadee ...	30.31	47	NW	2	b	30.34	+ .11	47	47	0	ESE	5	c	3	b	#	50	45	-	
	Liverpool (Bidston)	30.33	44	SE	1	m	30.38	+ .13	43	41	+ 1	ESE	2	0	?	m	#	45	42	-	
	Holyhead ...	30.28	48	NE	2	ogm	30.33	+ .21	43	42	- 7	ENE	2	b	1	ogm	#	50	41	-	
	Parsonstown ...	30.24	40	Z	0	b	30.26	+ .05	47	45	+ 2	SE	1	0	#	b	0.1	49	39	-	
	Valencia ...	30.13	51	E	4	bc	30.16	+ .01	50	46	+ 7	ENE	2	b	3	bc, b	4.8	56	41	-	
	Roche's Point ...	30.12	51	SE	3	om	30.22	+ .03	50	49	0	SE	4	0	4	om	#	53	49	-	
	Pembroke (St. Ann's Hd.)	30.23	47	SE	4	f	30.24	+ .01	44	43	- 5	ESE	4	og	3	f	0.0	49	44	-	
FRANCE & BELGIUM.	Scilly ...	30.13	52	ESE	4	bc, w	30.10	- .06	53	51	0	E	4	bc, w	3	c, bc, w	5.6	56	30	-	
	Prawle Point ...	30.24	50	ENE	3	b	30.21	- .05	47	46	- 3	ENE	5	og	4	b	#	35	44	-	
	Jersey (St. Aubin's)	30.24	51	ENE	2	b	30.20	- .07	44	43	- 4	ESE	2	bc, m	2	b	#	53	43	0.04	
	Hurst Castle ...	30.27	46	E	2	bc, m	30.28	- .02	43	43	- 1	ENE	4	qm	3	bc, m	#	48	40	-	
	Dungeness ...	30.31	41	Z	0	bc, w	30.32	- .01	46	46	+ 10	ENE	3	m	2	b, f, w	#	56	35	-	
	North Foreland	30.33	45	Z	0	b	30.33	- .01	45	45	- 1	E	4	m	3	b, f	#	54	38	0.02	
	London (Brixton) ...	30.32	43	Z	0	f, g.	30.34	+ .02	41	41	0	ENE	1	f	#	g, f, a	0.0	45	39	0.01	
	Oxford ...	30.24	41	Z	0	f	30.36	+ .04	41	41	- 1	ENE	2	od	#	f	#	44	40	0.01	
	Cambridge ...	30.33	44	SW	1	f	30.38	+ .06	43	43	+ 1	Z	0	omg	#	f	0.0	45	41	0.02	
	Yarmouth ...	30.29	43	NW	1	f	30.36	+ .09	43	42	+ 5	ENE	3	b	3	bc, f	#	45	35	0.01	
GERMANY & HOLLAND.	Cuxhaven ...	30.22	43	WSW	3	r	30.32	+ .09	42	41	+ 1	NNW	2	0	#	r	#	45	39	0.08	
	Berlin ...	30.21	43	W	2	0	30.23	- .08	41	39	+ 4	W	4	0	#	0	#	45	27	0.04	
	Wiesbaden ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Munich ...	30.41	27	Z	0	b	30.36	- .12	25	25	+ 4	W	1	b	#	b	#	35	21	-	
	The Helder ...	30.30	44	N	1	f	30.38	#	42	41	#	NNE	1	b	1	f	#	46	41	-	
	Brussels ...	#	#	#	#	#	30.38	- .01	38	38	- 1	E	1	f	#	b	#	50	33	0.04	
	Cape Gris Nez ...	30.25	48	E	1	m	30.25	- .01	43	42	- 4	E	3	f	3	m	#	54	41	-	
	Paris ...	30.32	41	ENE	1	b	30.28	- .09	31	31	+ 1	NE	2	f	#	b	#	50	30	-	
	Brest ...	30.28	52	ESE	3	b	30.09	- .11	46	44	- 4	E	3	b	3	b	#	54	43	-	
	Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
FRANCE & BELGIUM.	Rochefort ...	30.41	50	SE	3	b	30.05	- .14	45	44	- 1	E	4	c	#	b	#	57	46	-	
	Belfort ...	30.39	44	E	1	b	30.36	- .10	28	26	- 7	ENE	2	b	#	b	#	51	28	-	
	Lyons ...	30.39	41	N	1	b	30.38	- .09	27	27	- 9	SSW	1	f	#	b	#	49	26	-	
	Nice ...	30.35	50	E	2	b	30.31	- .11	42	38	- 2	E	1	b	1	b	#	59	41	-	
	Perpignan ...	30.29	53	SE	1	b	30.18	- .18	52	53	+ 3	S	3	0	#	b	#	59	34	-	
	Biarritz ...	30.04	55	E	3	b	29.96	- .16	48	44	- 3	E	4	0	2	b	#	63	45	-	
PENIN- SULA.	Corunna ...	29.87	64	SE	3	b	29.84	- .16	52	48	- 2	SE	3	c	4	b	#	64	46	-	
	Lisbon ...	29.71	54	E	5	0	29.74	- .02	52	50	+ 1	ENE	4	0	#	0	#	59	50	0.04	
	Azores (P. Delgada)	29.74	51	NNE	1	c	29.73	- .13	59	58	+ 9	SSW	5	r	6	c	#	59	50	0.12	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 9.0 hrs.

WEATHER CHARTS

FOR SUNDAY, 19th DECEMBER, 1897.

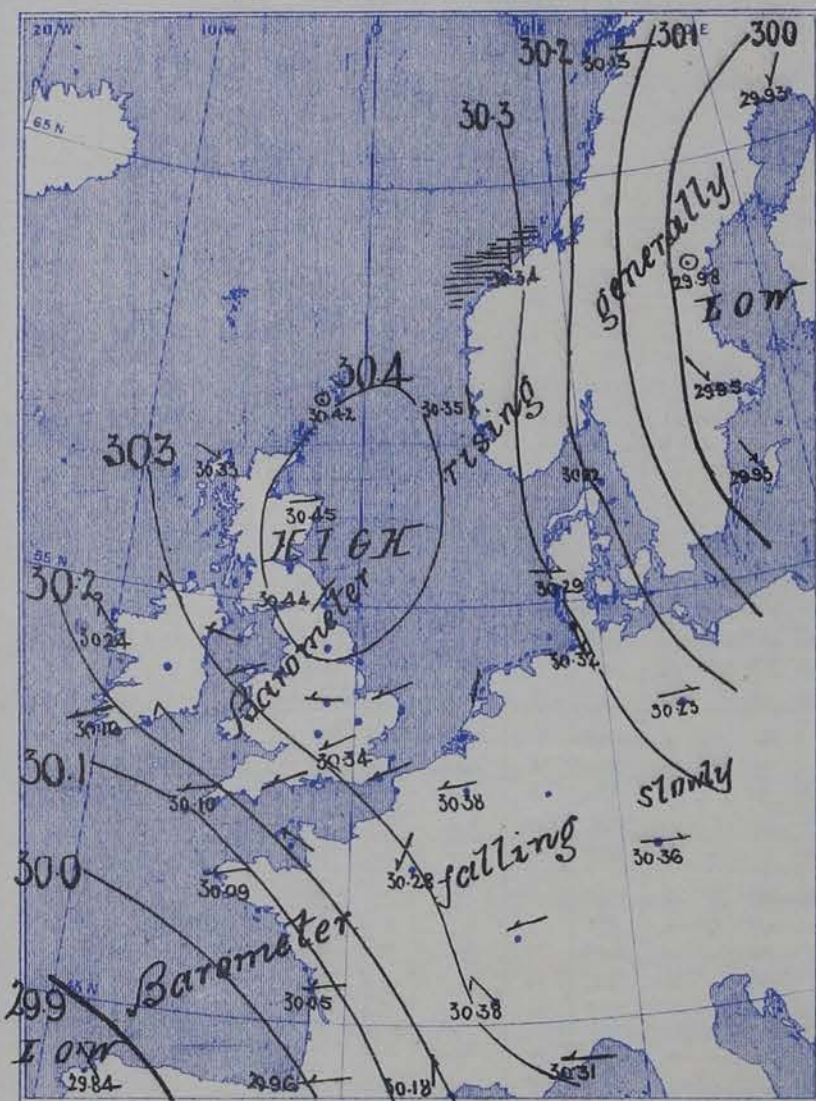
BAROMETER, WIND AND SEA.

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

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

Force above 10 \rightarrow ; Force 5 to 7 \rightarrow ; }
Force 8 to 10 \rightarrow ; Force 1 to 4 \rightarrow ; } Calm \odot

SEA—Rough \equiv ; High \equiv

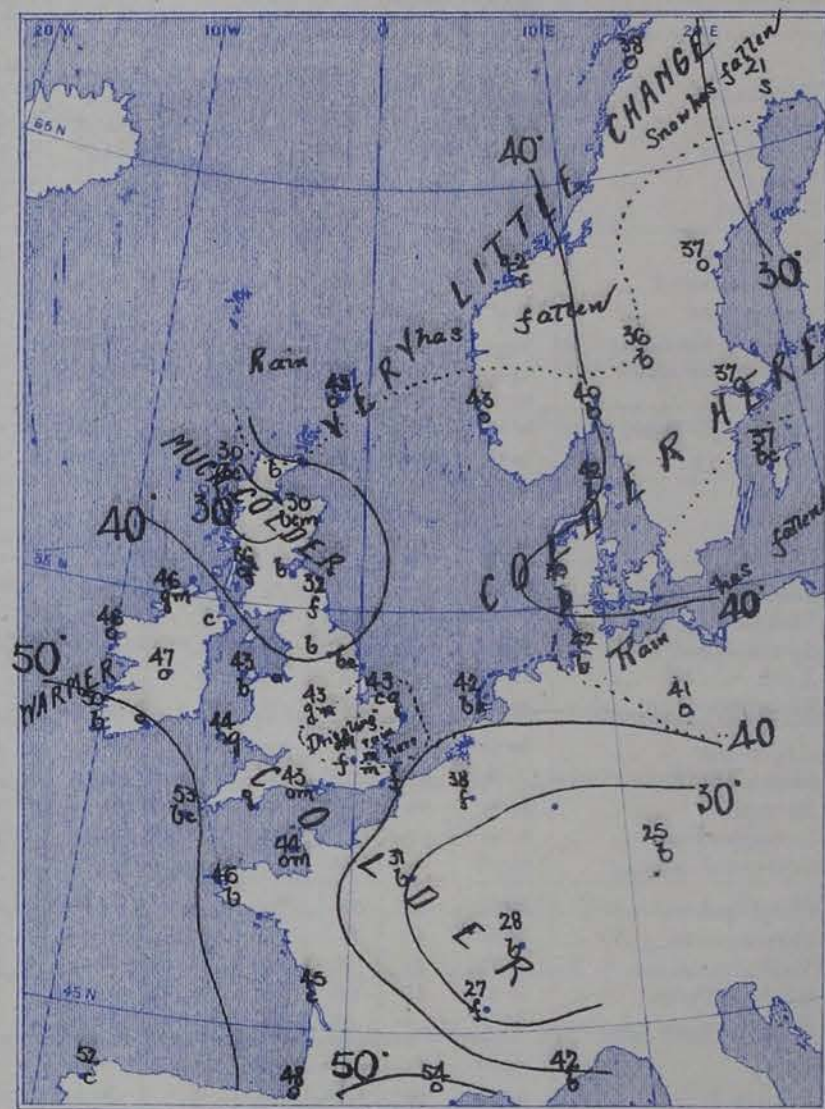


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1892	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8+	5+
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest 30.4 ins. and more over the N.E.^m parts of Gt. Britain, and exceeding 30.2 ins. over nearly the whole of our islands, the North Sea and central Europe.</p> <p>Lowest (1) Below 29.8 ins. over the S.W.^m parts of the Spanish peninsula, and (2) below 30.0 ins. over the Baltic and Gulf of Bothnia, and apparently still lower over Russia.</p> <p>Gradients very slight within the area of highest pressure, moderate for S.E.^m winds over the southwestern parts of our area, for N.^m and N.W.^m winds over Scandinavia and for W.^m winds over N. Germany.</p> <p>Barometer rising fast at the S.^m and N.E.^m stations; falling over the S.W.^m parts of Europe and the Azores.</p>
TEMPERATURE	<p>Highest 54° at Perpignan, 53° at Lorient, 50° in the S. of Ireland, 47° at Prowle Point.</p> <p>Lowest (1) 25° at Munich, 27° at Lyons, 31° at Paris; (2) 25° at Kairi, 30° at Aberdeen, 32° at Shields, 33° at Leith.</p> <p>After being very high for the time of year over the greater part of our Islands yesterday, it had fallen decidedly during the night.</p>
WIND	<p>(1) Moderate from between E. and S.E. over the southwestern parts of Continental Europe, and the western parts of our Islands; (2) N.E. over Lapland and N.W. to W. over Scandinavia and the Baltic as a whole; (3) calm or very light and variable over Gt. Britain, the North Sea and central Europe. The E.^m wind was apparently spreading over England, and increasing in force over the Channel.</p>
WEATHER	<p>Dull over Scandinavia and the Baltic, with snow and cold rain at some of the Norwegian stations; fine over the N.^m and E.^m parts of Gt. Britain, as well as over the greater part of France, W.^m and S.^m Germany. Considerable falls of rain were reported from Norway.</p> <p>Wet mists and fogs from the S. and S.E. of England and from Cape Gris Nez.</p>
SEA	<p>Moderate on our S.W. coasts, slight to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20TH DEC.

1897.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

FORECASTS.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.05	45	42	NN	4	bc	2	Valencia ...	30.12	56	50	ESE	4	bc	3
Sumburgh Head ...	30.12	46	44	NNW	2	c	4	Scilly ...	30.15	55	53	E	4	c	4
Stornoway ...	30.24	45	44	W	1	bc	1	Jersey ...	30.24	53	?	ESE	4	bc	2
Aberdeen ...	30.27	43	39	W	2	b	1	Hurst Castle ...	30.28	47	46	NNE	1	bm	2
Shields ...	30.30	49	48	WSW	1	c	2	Dungeness ...	30.30	50	53	SW	2	b	2
Ardrossan ...	30.27	47	46	NN	1	bf	1	North Foreland ...	30.34	45	45	SW	1	f	1
Malin Head ...	30.27	47	46	ESE	3	o	1	London (Westminster) ...	30.30	47	46	Z	0	fg.	#
Belmullet ...	30.20	51	49	ESE	2	b	#	Yarmouth ...	30.27	45	44	W	3	bf	3
Holyhead ...	30.27	50	49	Z	0	og	0	Rocheport ...	30.17	57	53	SE	3	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and bright over southern and southwestern Europe, the Bay of Biscay, Ireland, Scotland and the Netherlands, dull elsewhere - very quiet and foggy over the southern half of England as well as over western Germany, Austria Hungary, and the Gulf of Finland. Much wet fog over England all day, some rain over Belgium, and considerable quantities over Norway and Lapland.

Temperature giving way decidedly over our Islands and France. Morning readings highest 63° at Nemours, 59° at Malta, 56° at Algiers and Brindisi; 53° at Scilly, 50° at Arest, Rocher P^t and Holyhead, 48° at Valencia (Ireland). Lowest (1) 14.5° at Archangel, 25° at Haparanda, 27° at Kuopio; (2) 16° at Kharkov, 21° at Odessa and Moscow; (3) 21° at Munich, 30° at Prague, 31° at Wiesbaden. Rising later to between 56° and 50° in several parts of England, Ireland and France and touching 63° at Biarritz, 64° at Corunna.

Wind was - (1) Light and anticyclonic over southeastern and central Europe as a whole, as well as over England; (2) SE^{ly} to E^{ly} on our southwestern coasts and over the Bay of Biscay, NE^{ly} over Spain; (3) W^{ly}, light, over Scotland and Scandinavia, SW^{ly} over the Baltic, and SE^{ly} to E^{ly} over Finland and Lapland. Light airs becoming more general over Gt. Britain later, little change elsewhere.

Barometer highest 30.6 ins. and more to 30.3 ins. in an anticyclone covering SE^m, S^m and central Europe, and exceeding 30.2 ins. in a 'ridge' spreading northwards over England and Ireland. Lowest 29.5 ins. and less over Finmark, and below 29.8 ins. over the S. of Portugal. Rising quickly over Scotland later, but falling a little at our SW^m stations, as well as over France and the Iberian peninsula.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Monday 20th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Hours of Bright Sun- shine.	TEMP.			Rainfall.		
		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.			
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
Haparanda ...	30.47	0	2	0	b	30.52	+ .39	13	12	- 8	SE	2	0	#	b	#	25	- 2	0.04		
Hernösand ...	30.43	26	NW	6	o	30.60	+ .62	22	21	- 15	N	2	0	#	o	#	37	22	-		
Stockholm ...	30.22	30	NW	6	o	30.52	+ .57	28	26	- 9	NNE	4	0	#	o	#	37	28	-		
Wisby ...	30.13	35	N	9	o	30.44	+ .51	31	28	- 6	NNE	8	0	#	o	#	39	31	-		
Karlstad ...	30.35	37	N	4	b	30.59	+ .46	27	25	- 9	N	2	0	#	b	#	#	#	-		
Bodö ...	30.40	34	2	0	b	30.33	+ .20	41	39	+ 3	SW	6	+	4	b	#	41	32	0.28		
Christiansund ...	30.52	40	N	2	o	30.57	+ .23	37	36	- 5	ESE	1	b	5	o	#	42	36	-		
Skudesnaes ...	30.43	39	N	2	b	30.57	+ .22	34	33	- 9	E	1	b	1	b	#	43	34	#		
Færder (Christiania Fjord)	30.41	39	NW	1	b	30.53	+ .37	37	34	- 3	N	2	b	1	b	#	41	36	-		
Skagen (The Scaw)	30.40	42	N	2	b	30.56	+ .34	36	32	- 6	NE	1	b	0	b	#	43	34	-		
Fanö ...	30.42	33	N	1	m	30.51	+ .22	31	31	- 8	NE	1	b	#	m	#	41	31	-		
Sumburgh Head	30.48	40	2	0	o	30.51	+ .09	42	39	- 1	S	1	o	2	o	#	44	37	-		
Stornoway ...	30.37	35	2	0	b	30.38	+ .05	36	36	+ 6	W	1	c	1	b	2.1	39	28	0.02		
Wick ...	30.40	42	SW	3	b	30.43	+ .05	43	40	+ 1	S	5	b	3	b	#	44	40	-		
Nairn ...	30.42	44	SW	1	b	30.46	+ .06	25	21	0	2	0	f	1	b	#	38	18	-		
Aberdeen ...	30.47	32	SW	2	b	30.52	+ .07	42	38	+ 12	SE	3	og	3	b	1.1	42	30	-		
Leith ...	30.43	39	2	0	c	30.47	+ .06	41	38	+ 8	ESE	2	0	#	c	#	45	32	-		
Shields ...	30.44	38	2	0	f	30.49	+ .05	43	41	+ 11	SE	3	o	3	f	#	43	32	-		
Spurn Head ...	30.40	43	ESE	3	o	30.43	+ .03	44	41	+ 1	ESE	3	ov	3	o	#	45	43	-		
York ...	30.40	43	E	1	o	30.47	+ .04	41	39	+ 7	E	1	c	#	c.o	1.5	46	34	-		
Loughborough ...	30.39	43	NE	2	o	30.41	+ .03	41	39	- 2	E	2	ogm	#	c.o.m.gm	#	46	41	-		
Ardrossan ...	30.40	37	NNE	3	b	30.44	+ .05	37	37	+ 1	NNE	2	afw	1	b	#	37	33	-		
Malin Head ...	30.34	45	SE	3	om	30.35	+ .06	40	40	- 6	ESE	3	om	2	om	#	48	40	-		
Belmullet ...	30.44	44	SW	1	b	30.28	+ .04	43	41	- 2	SSE	2	o	#	b	#	51	41	-		
Donaghadee ...	30.35	47	ESE	5	b	30.39	+ .05	45	43	- 2	ESE	6	b	4	b	#	47	43	-		
Liverpool (Bidston)	30.38	41	ESE	2	b	30.41	+ .03	41	37	- 2	E	3	o	?	b	#	45	39	-		
Holyhead ...	? 30.34	44	ENE	3	b	? 30.35	+ .02	41	39	- 2	ENE	3	b	2	b	#	48	39	-		
Parsonstown ...	30.24	47	NE	1	c	30.27	+ .01	43	41	- 4	SE	1	b	#	c	0.0	49	42	-		
Valencia ...	30.14	48	ENE	3	c	30.18	+ .02	49	45	- 1	ESE	3	mg	3	c	6.1	53	47	-		
Roche's Point ...	30.20	49	ESE	5	o	30.23	+ .01	48	46	- 2	ESE	5	o	4	o	#	50	46	-		
Pembroke (St. Ann's Hd.)	30.21	46	ESE	3	o	30.23	- .01	41	39	- 3	SE	5	cg	3	o	0.9	47	40	-		
Scilly ...	30.06	52	E	5	c	30.09	- .01	50	48	- 3	E	6	c	5	c	2.2	55	47	-		
Prawle Point ...	30.18	47	ENE	6	c	30.20	- .01	45	44	- 2	ENE	7	og	6	c	#	48	43	-		
Jersey (St. Aubin's)	30.12	47	ENE	4	b	30.14	- .06	44	43	0	ESE	5	om	4	b	#	50	42	-		
Hurst Castle ...	30.23	47	E	5	om	30.25	- .03	43	40	0	ENE	6	om	4	om	#	47	43	-		
Dungeness ...	30.29	45	E	4	o	30.32	0.00	42	40	- 4	E	5	c	4	o	#	46	40	-		
North Foreland	30.36	43	NE	5	c	30.37	+ .04	42	40	- 3	E	5	og	4	o	#	46	41	-		
London (Brixton) ...	30.33	43	E	2	o	30.36	+ .02	42	39	+ 1	E	3	o	#	gfw.o	0.0	46	41	-		
Oxford ...	30.35	42	ENE	2	o	30.37	+ .01	41	38	0	ENE	4	og	#	gfw.o	0.0	45	40	-		
Cambridge ...	30.38	43	E	1	o	30.42	+ .04	41	39	- 2	E	2	om	#	o	0.0	46	37	-		
Yarmouth ...	30.37	44	E	4	b	30.39	+ .03	43	41	0	E	5	cg	4	b	#	45	40	-		
Cuxhaven ...	30.39	37	N	1	b	30.44	+ .12	36	36	- 6	NE	3	b	#	b	#	43	34	-		
Berlin ...	30.30	36	WNW	3	b	30.36	+ .11	32	31	- 9	NW	3	b	#	b	#	45	32	-		
Wiesbaden ...	#	#	#	#	#	30.40	#	26	26	#	SW	1	o	#	#	#	34	26	-		
Munich ...	30.34	32	E	3	f	30.33	- .03	27	27	+ 2	E	1	f	#	f	#	39	25	-		
The Helder ...	30.41	43	NE	1	o	30.44	+ .06	42	39	0	ENE	1	b	1	o	#	43	41	-		
Brussels ...	#	#	#	#	#	30.39	+ .01	32	31	- 6	ENE	4	b	#	b	#	41	31	-		
Cape Gris Nez	30.23	41	E	4	m	30.23	- .02	36	34	- 7	E	5	m	5	m	#	45	32	-		
Paris ...	30.22	39	NE	2	b	30.23	- .05	38	37	+ 7	ESE	4	o	#	b	#	48	31	-		
Brest ...	30.02	50	E	2	c	30.08	- .01	43	41	- 3	ENE	2	b	2	c	#	54	37	-		
Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
Rochefort ...	29.97	48	ESE	3	b	29.97	- .08	48	46	+ 3	SE	3	o	#	b	#	55	45	-		
Belfort ...	30.29	39	ENE	5	f	30.27	- .09	32	32	+ 4	E	3	f	#	f	#	41	27	-		
Lyons ...	30.25	37	NW	1	f	30.25	- .13	28	28	+ 1	NW	1	c	#	f	#	37	26	-		
Nice ...	30.20	48	2	0	c	30.18	- .13	42	42	?	E	1	c	2	c	#	54	41	-		
Perpignan ...	30.10	56	SE	1	o	30.05	- .13	55	55	+ 1	SSE	1	r	#	o	#	59	54	0.16		
Biarritz ...	29.88	56	E	3	o	29.91	- .05	52	47	+ 4	ESE	3	o	2	o	#	57	48	0.12		
Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
Lisbon ...	29.80	54	NE	3	c	29.96	+ .22	50	48	- 2	N	3	b	#	c	#	59	50	-		
Azores (P. Delgada)	29.73	59	SW	4	b	29.78	+ .05	59	57	0	S	4	c	3	b	#	64	55	-		

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR MONDAY, 20TH DECEMBER, 1897.

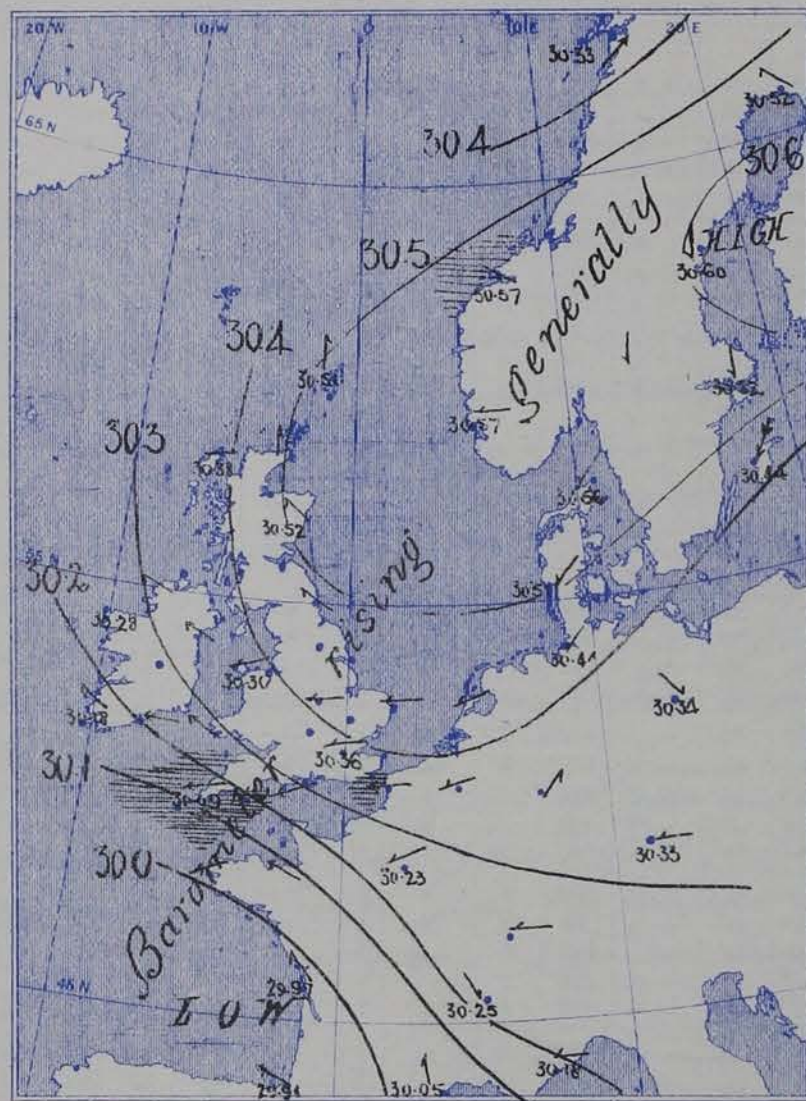
BAROMETER, WIND AND SEA.

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 ≡≡≡

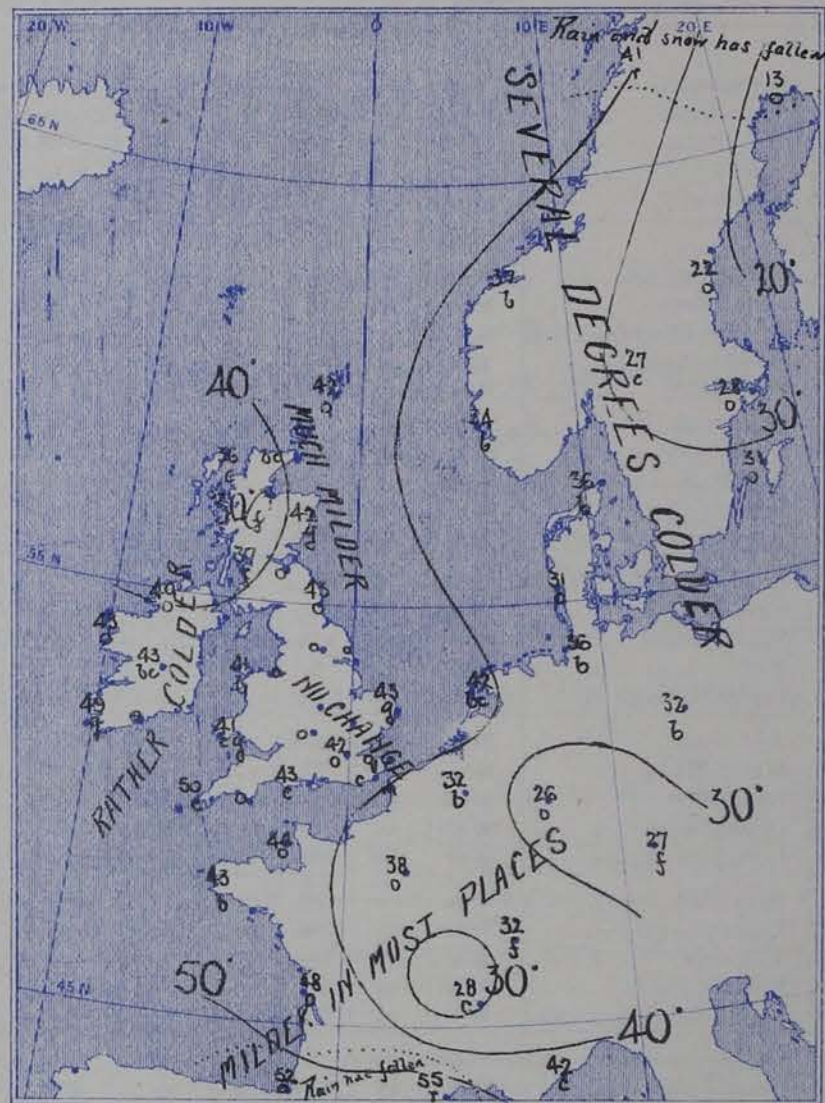


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.6 ins. to 30.4 ins. in an anticyclone covering Scandinavia, the North Sea and the northern and northeastern parts of Gt. Britain.
Lowest: Below 30.0 ins. over the Bay of Biscay, and apparently below 29.9 ins. over the central parts of the Iberian peninsula.

TEMPERATURE

Gradients slight within the area of highest pressures, moderate for SE⁴ to NE⁴ winds elsewhere.
Barometer rising almost everywhere - chiefly in the northeast.
Highest 55° at Perpignan, 52° at Biarritz, 50° at Scilly, and 49° at Valencia (Ireland)
Lowest (1) 13° at Haparanda, and below 30° over Sweden generally; (2) 26° at Wiesbaden, 27° at Munich; (3) 25° at Nain; at all the other British stations the thermometer was above 40°.
It was only at our extreme southwestern stations that the maxima recorded yesterday exceeded 50°, at several of the Scotch stations they were below 40°. The minimum at Nain was as low as 18° F.

WIND

(1) Light from SE, or calm, at the Scotch stations; (2) SE² to ENE² over Ireland, England and France - and blowing strongly on the Channel coasts.
(3) N² over the Baltic, very variable and light over Germany.

WEATHER

Fair as a whole - clear at several of the N^m stations, at Holyhead, as well as over the Netherlands and N. Germany - dull elsewhere, foggy in some parts of Scotland, rainy at Bodo.
There were 6 hrs. of Bright Sunshine recorded at Valencia (Ireland) yesterday, 2 hrs. at Scilly and Stornoway, 1.5 hrs. to 1 hr. over the N^m parts of Gt. Britain, but none in the south and east.

SEA

Rough in the English Channel, moderate in the W. and E., smooth in the N.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of E² winds is probable, with decreasing temperature and dry weather.

FORECASTS

For the 24 hours ending at NOON on 21ST DECEMBER 1897.

DISTRICTS.

FORECASTS.

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

SE² and varying airs, fine, cold, hazy in places.

E² winds, light to moderate inland, strong on the coasts, fair but dull.

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.

E² winds, moderate, fine, cold.
E² winds strong, squally, but fair as a whole.

E² and SE² winds, fresh, fair.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.40	43	41	NNW	6	c	2	Valencia ...							
Sumburgh Head ...								Scilly ...							
Stornoway ...	30.36	39	39	2	0	6	0	Jersey ...	30.14	50	47	E	3	6	3
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30.29	45	44	E	4	0	3
Ardrossan ...								North Foreland ...	30.35	45	43	NE	5	0	4
Malin Head ...	30.31	46	46	SE	3	0	2	London (Westminster) ...							#
Belmullet ...	30.24	51	48	ESE	1	6c	*	Yarmouth ...							
Holyhead ...								Rochefort ...	30.01	54	50	ESE	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 12TH TO 18TH DEC. 1897.

The series of depressions advancing from the Atlantic towards our islands, to which attention was drawn in last week's Summary — continued in progress, as follows, during the greater part of the week:

- (1) A small, but well marked system, which lay off the W. coast of Cornwall on the morning of Sunday (12th), and moving quickly to the E^{wd} had reached N. Germany next morning. This caused considerable falls of rain over the S^m half of England, and was followed by a clear cold night.
- (2) A larger disturbance which lay off the NW coast of Ireland early on Monday (13th) and moved N^{wd} slowly during the succeeding 36 hours, causing a burst of strong but very mild S^m winds and rain — the rain being heaviest over the SW^m and W^m parts of the Kingdom and the thermometer rising to between 55° and 50° over nearly the whole of England and Ireland.
- (3) A "V" shaped secondary system, which moved N^{wd} over Ireland during the latter part of the 14th and earlier part of the 15th, — causing sharp thunderstorms over the SW^m and S^m parts of the United Kingdom, and heavy rain locally in these regions.
- (4) A large depression which lay off the extreme W. of Ireland on the morning of Thursday (16th) subsequently moved N^{wd}. This caused very strong S^m winds and gales on our coasts, accompanied by unusually mild weather for the time of year (maximum 56° to 50 in the shade over Ireland and England) and very general rain.

After this disturbance an anticyclone, which had been lying over central Europe, began to spread northwestward over the United Kingdom, and colder quieter weather became prevalent. Temperature fell decidedly. Rain became less prevalent, but thick fogs and wet mists spread over the S^m half of the Kingdom generally.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 21st December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.								TEMP.			
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	30.38	16	S	2	S	30.15	- .37	22	22	+ .9	E	2	o	#	S	#	22	?	0.08
	Hernösand ...	30.48	26	2	0	o	30.44	- .16	39	36	+ .17	SW	4	c	#	o	#	39	18	-
	Stockholm ...	30.60	28	N	2	o	30.54	+ .02	29	28	+ .1	2	o	a	#	o	#	30	25	-
	Wisby ...	30.60	32	NE	4	o	30.59	+ .15	31	30	0	NW	4	a	#	o	#	32	28	-
	Karlstad ...	30.63	27	N	2	b	30.62	+ .03	24	23	- .3	W	2	b	#	b	#	#	#	-
	Bodö ...	30.32	43	SW	6	r	30.31	- .02	43	42	+ .2	SW	6	o	4	r	#	43	39	0.87
	Christiansund ...	30.66	39	ESE	2	b	30.68	+ .11	40	37	+ .3	WSW	4	o	4	b	#	40	36	-
	Skudesnaes ...	30.67	38	2	0	b	30.65	+ .08	38	37	+ .4	2	o	o	1	b	#	41	34	-
	Færder (Christiania Fjord)	30.66	34	SW	2	b	30.64	+ .11	28	27	- .9	N	2	b	1	b	#	37	28	-
	Skagen (The Scaw)	30.64	32	2	0	b	30.67	+ .11	30	29	- .6	SW	1	b	0	b	#	36	27	-
BRITISH ISLANDS.	Fanö ...	30.67	33	NE	2	o	30.62	+ .11	30	30	- .1	2	o	b	#	o	#	36	30	-
	Sumburgh Head	30.57	42	S	1	o	30.57	+ .06	42	41	0	S	1	o	2	o	#	43	40	-
	Stornoway ...	30.44	33	2	0	b	30.53	+ .15	36	35	0	W	1	o	1	b.c.b	2.2	40	30	-
	Wick ...	30.51	42	S	2	b.c	30.54	+ .11	35	34	- .8	S	2	f	2	b.c	#	44	34	-
	Nairn ...	30.50	22	2	0	f	30.58	+ .12	21	18	- .4	2	0	b.m	0	f	#	29	17	-
	Aberdeen ...	30.55	42	SSE	3	og	30.62	+ .10	38	37	- .4	SSW	1	omg	1	og	0.0	43	37	-
	Leith ...	30.51	42	ESE	2	o	30.59	+ .12	35	34	- .6	SSE	1	b	#	o	#	43	30	-
	Shields ...	30.53	43	ESE	1	2	30.61	+ .12	43	40	0	S	2	m	3	o.2	#	45	37	-
	Spurn Head ...	30.48	43	E	4	b	30.58	+ .15	40	38	- .4	ESE	4	o	4	o.b.v	#	45	40	-
	York ...	30.48	43	E	1	o	30.61	+ .14	37	36	- .4	E	1	c	#	o	0.0	44	33	-
GERMANY & HOLLAND.	Loughborough ...	30.45	42	E	3	o	30.57	+ .16	34	33	- .7	E	2	om	#	o	#	43	29	-
	Ardrossan ...	30.48	41	NNE	2	of	30.56	+ .12	37	37	0	NNE	1	b.fur	1	of, of	#	41	34	-
	Malin Head ...	30.38	40	SE	4	b.c.m	30.45	+ .10	39	39	- .1	SE	4	b.m	2	b.b.c.m	#	43	37	-
	Belmullet ...	30.31	42	SE	1	b	30.42	+ .14	40	38	- .3	S	2	c	#	b	#	47	35	-
	Donaghadee ...	30.43	45	SE	6	o	30.52	+ .13	44	43	- .1	SE	6	b	4	o	#	45	42	-
	Liverpool (Bidston)	30.44	43	ESE	4	o	30.56	+ .15	35	34	- .6	ESE	3	b.c	3	om	#	43	34	-
	Holyhead ...	30.37	39	E	2	b	30.48	+ .13	38	36	- .3	E	3	b	2	b	#	43	36	-
	Parsonstown ...	30.32	39	2	0	b	30.41	+ .14	35	34	- .8	SE	1	b	#	b	2.2	45	35	-
	Valencia ...	30.23	48	E	4	cq	30.31	+ .13	47	44	- .2	E	5	ogm	4	em, cq	3.0	50	45	-
	Roche's Point ...	30.28	46	ESE	5	o	30.35	+ .12	48	46	0	ESE	5	o	4	o	#	49	45	-
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.26	40	ESE	4	b.c	30.39	+ .16	40	38	- .1	ESE	5	b	3	b.c	5.6	43	38	-
	Seilly ...	30.12	49	E	6	om	30.26	+ .17	48	45	- .2	E	5	o	4	om	0.0	51	45	-
	Prawle Point ...	30.22	43	ENE	7	o	30.37	+ .17	44	42	- .1	ENE	6	c	5	og	#	46	40	-
	Jersey (St. Aubin's)	30.22	43	E	5	om	30.35	+ .21	38	35	- .6	ENE	4	b.m	3	om	#	44	37	-
	Hurst Castle ...	30.29	43	E	5	b	30.43	+ .18	39	37	- .4	NE	4	b.m	3	b	#	44	37	-
	Dungeness ...	30.34	43	ENE	6	b	30.47	+ .15	37	36	- .5	E	4	c	4	b	#	47	36	-
	North Foreland	30.39	45	E	5	bq	30.50	+ .13	39	37	- .3	E	5	cq	4	b.c.bq	#	46	36	-
	London (Brixton) ...	30.39	41	E	3	b	30.51	+ .15	39	37	- .3	ENE	2	o	#	og, b	0.0	43	35	-
	Oxford ...	30.42	37	E	2	b	30.53	+ .16	35	34	- .6	E	2	o	#	o, b	#	42	30	-
	Cambridge ...	30.45	38	E	2	b	30.56	+ .14	33	32	- .8	ENE	1	omg	#	o, b	0.0	43	27	-
PENIN- SULA.	Yarmouth ...	30.41	43	E	5	b.c	30.54	+ .15	39	37	- .4	E	5	cq	5	c.v, b.c	#	44	37	-
	Cuxhaven ...	30.58	34	E	2	b	30.69	+ .25	34	34	- .2	NE	1	o	#	b	#	37	34	-
	Berlin ...	30.52	34	NNE	3	o	30.62	+ .28	34	31	+ .2	NE	2	o	#	o	#	36	32	-
	Wiesbaden ...	#	#	#	#	#	30.56	+ .16	33	31	+ .7	NE	2	o	#	#	#	34	26	-
	Munich ...	30.49	35	NE	1	b.c	30.59	+ .26	33	31	+ .6	NE	2	o	#	b.c	#	36	27	-
	The Helder ...	30.52	38	E	4	b	30.63	+ .19	34	32	- .8	E	3	b	1	b	#	43	34	-
	Brussels ...	#	#	#	#	#	30.53	+ .14	29	28	- .3	ENE	4	b	#	b	#	39	28	-
	Cape Gris Nez ...	#	#	#	#	#	30.39	+ .16	25	25	- .13	NE	2	b	#	b	#	41	25	-
	Paris ...	30.31	32	ENE	1	b	30.39	+ .16	25	25	- .13	NE	2	b	#	b	#	41	25	-
	Brest ...	30.13	41	ENE	2	o	30.25	+ .17	37	37	- .6	ENE	2	m	2	o	#	48	30	-
GERMANY & HOLLAND.	Lorient ...	#	#	#	#	#	30.25	+ .17	37	37	- .6	ENE	2	m	2	o	#	48	30	-
	Rocheport ...	30.04	45	E	3	b	30.14	+ .17	36	36	- .12	ENE	4	c	#	c, b	#	55	34	-
	Belfort ...	30.28	30	ENE	6	f	30.34	+ .07	25	24	- .7	ENE	6	b	#	f	#	32	25	-
	Lyons ...	30.25	30	NW	1	f	30.30	+ .05	29	29	+ .1	W	1	m	#	f	#	33	28	-
	Nice ...	30.10	46	ENE	1	c	30.17	- .01	45	40	+ .3	2	o	c	3	c	#	52	41	-
	Perpignan ...	30.06	55	E	2	r	30.15	+ .10	49	48	- .6	E	2	r	#	r	#	57	48	1.81
	Biarritz ...	30.15	55	ESE	3	o	30.06	+ .15	52	51	0	SSE	2	o	1	o	#	59	48	-
	Corunna ...	#	#	#	#	#	30.53	+ .14	29	28	- .3	ENE	4	b	#	b	#	39	28	-
	Lisbon ...	30.09	55	W	1	b	30.16	+ .20	46	46	- .4	N	3	f	#	b	#	61	45	-
	Azores (P. Delgada)	29.76	63	SSW	5	r	29.73	- .05	63	62	+ .4	SSW	5	r	6	r	#	64	61	0.35

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 9.1 hrs.

WEATHER CHARTS

FOR

Tuesday, 21st December, 1897.

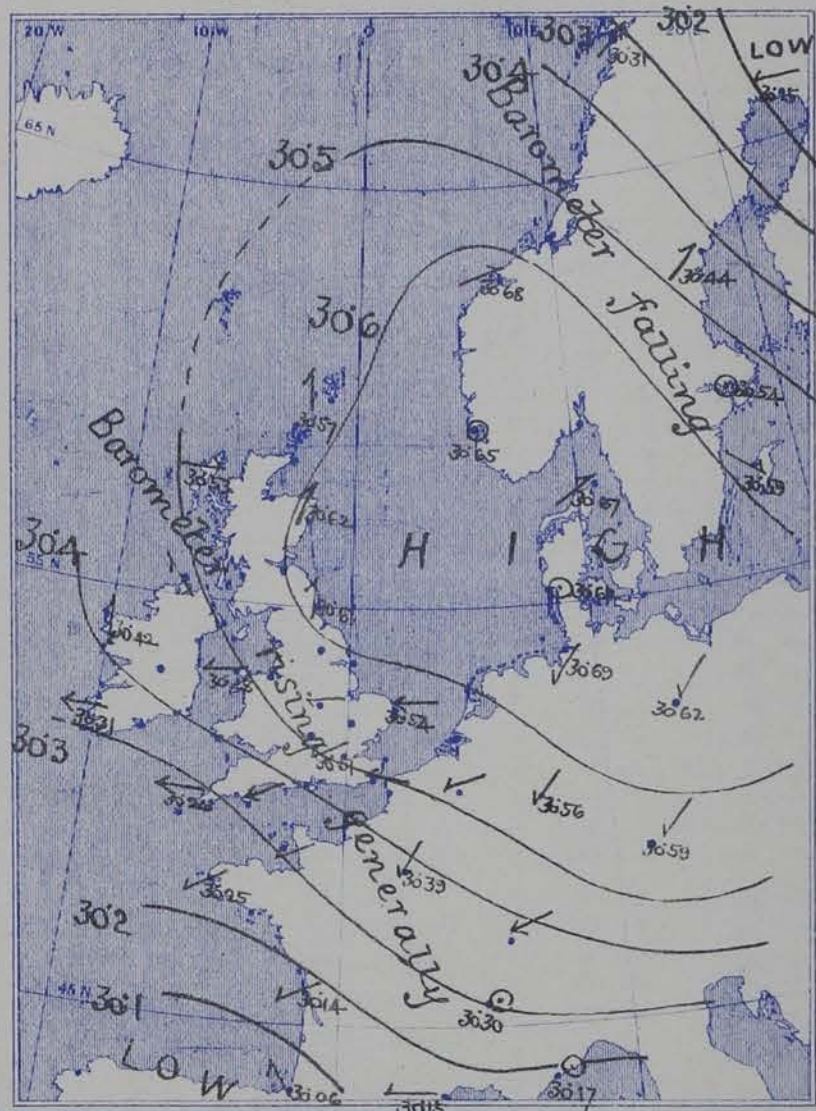
BAROMETER, WIND AND SEA.

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 ≡≡≡

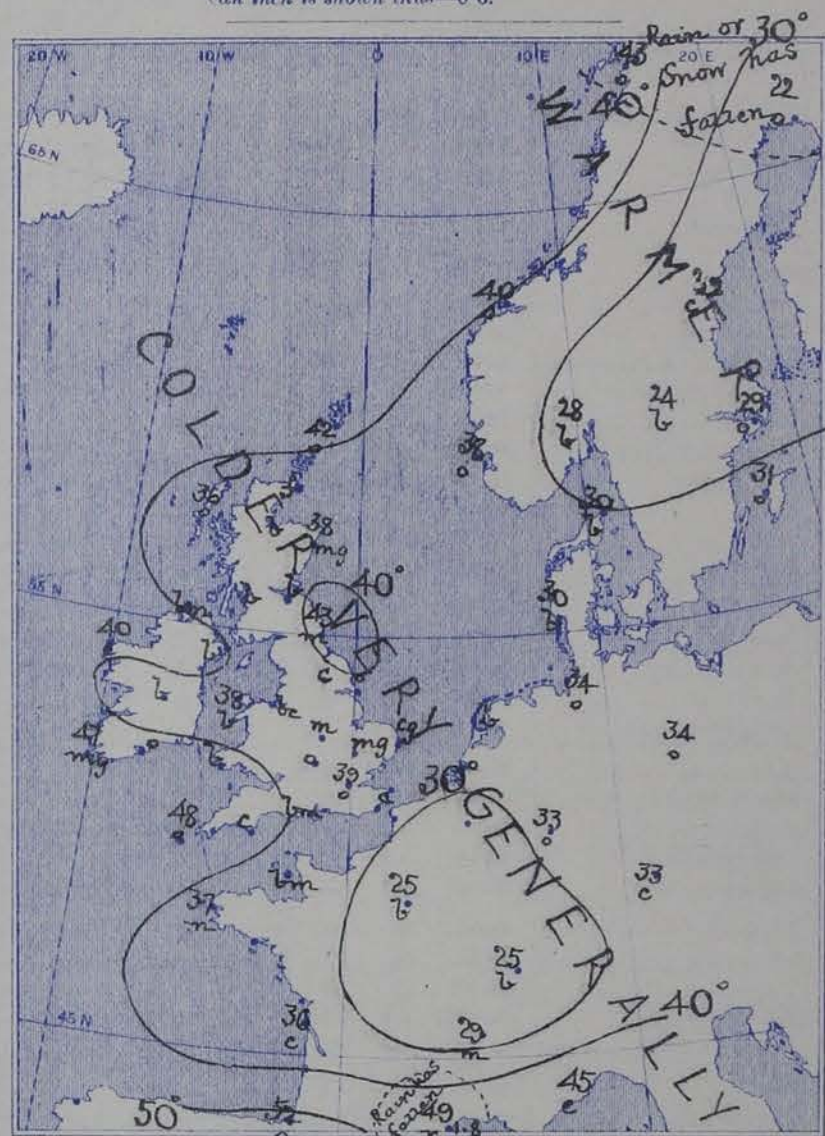


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 91	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.6 in. and more to 30.4 in. in a large anticyclone covering the North Sea and the greater part of our Islands.
 Lowest. Below 30.0 in. over Spain, and below 30.2 in. in the extreme N. of Sweden.
 Gradients over our Islands and France were moderate for SE² and E² winds.
 Barometer falling over Lapland and Sweden, rising elsewhere.

TEMPERATURE

Highest 52° at Biarritz, 48° at Sicily, 47° at Valencia, 43° at Rodos.
 Lowest 22° at Haparanda, 24° at Karlstad, 25° at Paris and Lyons, 21° (locally) at Nain.
 Sharp frost prevailed at Nain all day yesterday, and frost occurred in the night over our Midland and E^m countries.

WIND

Calm over the North Sea and Scotland, NE² to SE² elsewhere, and blowing strongly over the W^m parts of the Channel and in the S. of Ireland. Over Scandinavia it was SW² to W².

WEATHER

Fine and bright over France and the W^m and N^m parts of our Islands, dull elsewhere but dry. Large quantities of rain fell yesterday in the extreme N. of Norway and in the extreme S. of France, none at our own stations. Bright Sunshine recorded yesterday exceeded 6 hrs. at some of the Channel stations, and exceeded 5 hrs. at Pembroke; in the E. and NE. of Gt. Britain there was none.

SEA

moderate to rather rough on our SE^m, S^m and W^m coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Some decrease in the strength of the E² wind is probable but fair dry weather is still likely, with a tendency to haze or fog over England at night.

FORECASTS

For the 24 hours ending at NOON on 22ND DEC. 1897.

DISTRICTS.

FORECASTS.

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

S² and SE² winds, light, cold, cloudy, mist or fog in places.

E² winds moderate, fair generally, but cloudy and misty in places, colder.

DISTRICTS.

FORECASTS.



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

E² winds, light, fair generally, but misty or foggy in places.

E² and SE² winds, fresh, fair generally.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	30.65	41	39	2	0	bc	1	Valencia	30.20	50	45	NE	3	cm	3
Sumburgh Head	30.56	42	40	S	1	o	2	Scilly	30.12	50	47	E	6	om	5
Stornoway	30.43	40	39	WNW	1	bc	1	Jersey	30.18	44	43	E	5	o	4
Aberdeen	30.53	42	39	SSE	2	og	3	Hurst Castle	30.26	44	41	NE	6	bc	4
Shields	30.52	44	42	E	3	o	3	Dungeness	30.32	44	42	ENE	6	bc	4
Ardrossan	30.45	41	41	NNE	2	cf	1	North Foreland	30.38	43	41	E	5	bc	4
Malin Head	30.37	42	42	SE	4	bc	3	London (Westminster)	30.37	44	40	ESE	4	o	#
Belmullet	30.30	47	44	SE	2	bc	#	Yarmouth	30.41	44	41	E	4	cy	4
Holyhead	30.34	42	39	E	3	bc	2	Rocheport	30.01	54	52	ESE	3	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and bright in Portugal, Brittany and many of the W^m and N^m parts of our Islands, dull elsewhere, unsettled over SE^m Europe, with rain in places, as well as over central Spain and the SW^m parts of France. Rain falling later, both in the extreme N. and the extreme SW. of Europe, the amount at Perpignan exceeding 1.8 in.

Temperature inclined to decrease. Morning readings, highest 62° at Nemours, 60° at Barcelona, 55° at Malta and Perpignan; 52° at Biarritz, 50° at Scilly. Lowest (1) - 6° F. at Archangel, +1° at Uleaborg, 5° at Moscow, 15° at St. Petersburg, 20° at Riga, 27° at Karlskrona; (2) 26° at Wiesbaden, 28° at Lyons, 32° at Brussels; (3) 25° (locally) at Nairn. Falling considerably over England during the following night, and remaining very frosty at Nairn.

Wind light and anticyclonic over Finland, Scotland and the greater part of Scandinavia, as well as over W^m Germany, the E. of France and Italy. Strong to a gale from NE. on the N. German coasts; moderate from NW. over Austria, and light from between W. and S. over the southern parts of Russia. E^{ly} to SE^{ly} over France, England and Ireland, and blowing strongly in the Channel and on the E. coast of Ireland.

Barometer highest 30.60 in. at Hernimand, 30.3 in. and upwards in an anticyclone embracing the greater part of N^m and central Europe, and extending over all but the SW^m parts of our Islands. Lowest 29.8 in. and less in a depression over the S. of Russia; 30.0 in. and less in a large shallow area over the Spanish peninsula and the Bay of Biscay. No important change occurring over W^m Europe later.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 22nd December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SUTTON, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.	
				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.)		Max.	Min.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	30.21	8	2	0	b	29.26	-.29	32	31	+10	NSW	4	b	#	b	#	?	3	-	
	Hernösand ...	30.43	39	HW	2	b	30.30	-.14	37	35	-2	SW	2	b	#	b	#	41	25	-	
	Stockholm ...	30.51	30	W	2	b	30.44	-.10	30	29	+1	W	2	0	#	b	#	32	27	-	
	Wishby ...	30.52	35	W	4	b	30.48	-.11	35	34	+4	HW	4	c	#	b	#	36	28	0.04	
	Karlstad ...	30.60	23	2	0	b	30.51	-.11	21	19	-3	2	0	b	#	b	#	#	#	-	
	Bodo ...	30.33	44	WSW	6	r	30.09	-.22	37	35	-6	N	7	0	4	r	#	45	37	0.51	
	Christiansund ...	30.66	39	ESE	2	b	30.55	-.13	41	39	+1	NSW	7	r	5	b	#	41	37	-	
	Skudesnaes ...	30.68	39	2	0	0	30.63	-.02	37	36	-1	2	0	0	1	c	#	39	34	#	
	Færder (Christiania Fjord)	30.64	29	HW	2	b	30.55	-.09	27	24	-1	HW	2	b	1	b	#	30	27	-	
	Skagen (The Seaw)	30.62	37	2	0	b	30.56	-.11	36	33	+6	HW	1	c	0	b	#	37	28	-	
Fanø ...	30.72	36	NSW	2	0	30.65	+0.03	39	37	+9	W	4	c	#	0	#	39	30	-		
BRITISH ISLANDS.	Sumburgh Head	30.58	43	2	0	0	30.61	+0.04	43	40	+1	2	0	0	2	c	#	45	40	-	
	Stornoway ...	30.55	32	HW	1	b	30.55	+0.02	30	30	-6	HW	1	b	1	b	#	34	29	-	
	Wick ...	30.56	27	W	1	b	30.55	+0.01	33	33	-2	HW	1	c	5	b	#	40	25	-	
	Nairn ...	30.62	21	2	0	b	30.59	+0.01	17	14	-4	2	0	b	1	b	#	31	14	-	
	Aberdeen ...	30.65	38	SSW	1	bcm	30.61	-.01	33	32	-5	SW	1	bcm	1	cm	0.0	42	33	-	
	Leith ...	30.63	37	ESE	1	b	30.61	+0.02	27	27	-8	2	0	f	#	b	#	43	25	-	
	Shields ...	30.66	40	E	2	0	30.67	+0.06	34	33	-9	S	3	bcm	2	0	#	44	33	-	
	Spurn Head ...	30.63	40	ESE	4	0	30.68	+0.10	38	36	-2	SSW	1	c	3	0.0v	#	41	37	-	
	York ...	30.64	39	SE	2	0	30.70	+0.09	34	33	-3	SSW	1	0	#	0	0.0	39	33	-	
	Loughborough ...	30.62	36	E	2	0	30.67	+0.10	32	31	-2	ESE	1	b	+	0m.c	#	38	32	-	
GERMANY & HOLLAND.	Ardrossan ...	30.60	35	ENE	1	b	30.61	+0.05	30	29	-7	ENE	1	b	1	b	#	39	28	-	
	Malin Head ...	30.50	39	SE	3	b	30.50	+0.05	35	35	-4	SE	1	cm	1	b	#	42	34	-	
	Belmullet ...	30.44	41	ESE	3	b	30.44	+0.02	40	38	0	ESE	3	0	#	b	#	45	36	-	
	Donaghadee ...	30.58	42	SE	6	b	30.57	+0.05	43	42	-1	SE	5	c	3	g.b	#	45	38	-	
	Liverpool (Bidston)	30.62	36	ESE	4	0	30.65	+0.09	33	31	-2	ESE	2	0	?	bm	#	37	33	-	
	Holyhead ...	30.53	36	E	2	b	30.58	+0.10	34	32	-4	SW	1	of	1	b	#	39	31	-	
	Parsonstown ...	30.48	39	SE	1	c	30.48	+0.07	41	38	+6	SE	1	0	#	c	4.2	44	34	-	
	Valencia ...	30.36	49	E	4	0	30.36	+0.05	48	44	+1	ESE	3	cm	3	0m	0.0	51	46	-	
	Roche's Point ...	30.44	48	SE	5	0	30.45	+0.10	48	45	0	ESE	5	0	4	0	#	49	45	-	
	Pembroke (St. Ann's Hd.)	30.47	39	ESE	5	b	30.51	+0.12	39	38	-1	SE	5	b	3	b	4.4	42	36	-	
FRANCE & BELGIUM.	Scilly ...	30.37	46	ESE	5	b	30.42	+0.16	46	43	-2	ESE	5	b	3	c.b	3.9	50	43	-	
	Prawle Point ...	30.47	41	ENE	6	0	30.52	+0.15	43	40	-1	ENE	5	b	4	c	#	45	40	-	
	Jersey (St. Aubin's)	30.43	39	ENE	4	b	30.53	+0.18	34	33	-4	E	3	b	3	b	#	40	32	-	
	Hurst Castle ...	30.51	39	ENE	5	b	30.59	+0.16	36	35	-3	E	3	cm	2	cm	#	40	36	-	
	Dungeness ...	30.53	38	ENE	4	b	30.62	+0.15	37	34	0	E	3	b	2	b	#	47	34	-	
	North Foreland	30.59	38	E	5	b	30.66	+0.16	37	36	-2	E	3	b	3	c.b	#	39	36	-	
	London (Brixton) ...	30.59	38	E	2	0	30.64	+0.13	31	30	-8	E	1	b	#	og.b	0.0	40	30	-	
	Oxford ...	30.64	34	ENE	2	0	30.66	+0.13	29	28	-6	ENE	1	b	#	0.b	#	38	29	-	
	Cambridge ...	30.63	36	E	2	0	30.69	+0.13	28	28	-5	E	1	b	#	0	0.0	38	27	-	
	Yarmouth ...	30.60	39	E	5	b	30.65	+0.11	39	37	0	ESE	4	b	4	c.b	#	40	36	-	
PENIN- SULA.	Cuxhaven ...	30.71	34	NE	1	0	30.70	+0.01	32	32	-2	SW	2	0	#	0	#	36	24	-	
	Berlin ...	30.70	29	2	0	0	30.74	+0.12	28	27	-6	H	1	S	#	0	#	34	27	-	
	Wiesbaden ...	#	#	#	#	#	30.71	+0.15	25	24	-8	NE	1	b	#	#	#	34	25	-	
	Munich ...	30.55	22	E	3	b	30.60	+0.01	17	16	-16	NE	4	b	#	b	#	33	17	-	
	The Helder ...	30.71	33	E	3	b	30.73	+0.10	31	29	-3	E	1	b	1	b	#	36	31	-	
	Brussels ...	#	#	#	#	#	30.69	+0.16	24	23	-5	ENE	2	b	#	b	#	35	22	-	
	Cape Gris Nez ...	30.47	33	E	4	m	30.54	+0.18	28	27	-2	E	2	m	2	m	#	36	25	-	
	Paris ...	30.47	30	NE	2	b	30.57	+0.18	23	22	-2	NE	1	b	#	b	#	38	22	-	
	Brest ...	30.38	39	ENE	2	b	30.45	+0.20	34	32	-3	E	3	b	3	b	#	48	28	-	
	Lorient ...																				
FRANCE & BELGIUM.	Rochefort ...	30.24	36	ENE	4	b	30.30	+0.16	30	30	-6	ENE	4	b	#	b	#	43	28	-	
	Belfort ...	30.43	28	ENE	6	b	30.52	+0.18	22	20	-3	ENE	7	b	#	b	#	31	21	-	
	Lyons ...	30.37	31	HW	1	m	30.47	+0.17	30	30	+1	HW	1	m	#	m	#	32	29	-	
	Nice ...	30.24	43	E	1	b	30.36	+0.19	36	31	-9	2	0	b	4	b	#	50	34	-	
	Perpignan ...	30.23	47	H	2	r	30.34	+0.19	46	46	-3	E	1	0	#	r	#	49	45	1.02	
	Biarritz ...	30.16	54	SE	2	0	30.25	+0.19	50	46	-2	W	4	0	2	0	#	55	46	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport... 0.9hrs;

WEATHER CHARTS

FOR Wednesday, 22nd December, 1897.

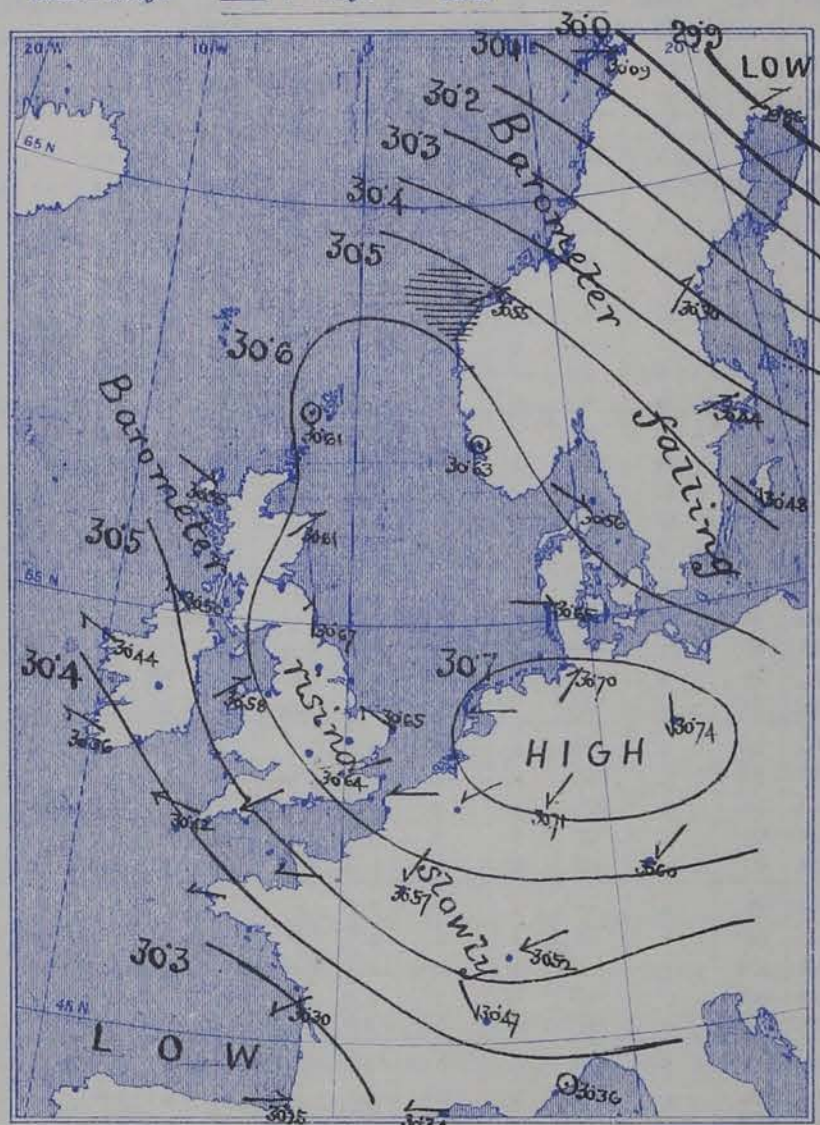
BAROMETER, WIND AND SEA.

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 ≡≡≡

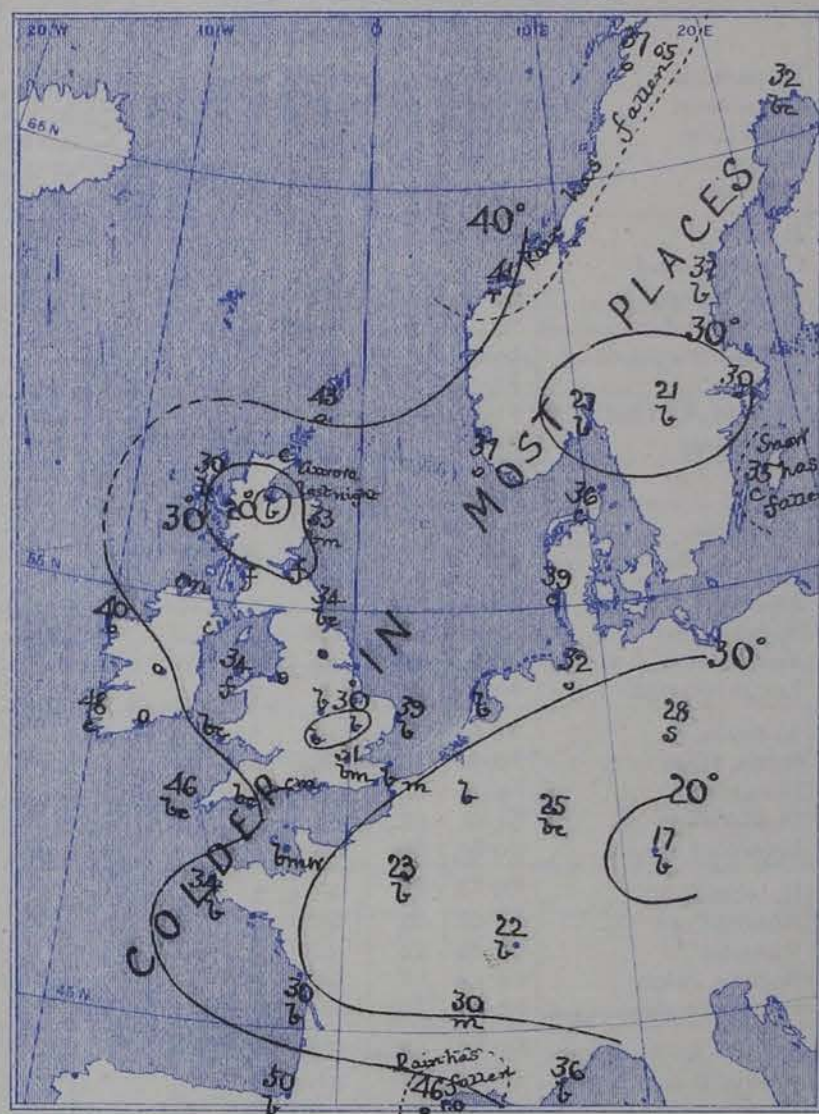


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.801	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in: and more over Germany, and exceeding 30.5 in: over Denmark, the south of Norway, and Great Britain, as a whole.
Lowest, (1) Below 29.9 in: over the east of Lapland, and (2) below 30.3 in: over the north of Spain.
Gradients very slight within the anticyclonic system, moderate for SE winds over Ireland and the Gulf of Bothnia.
Barometer falling over Scandinavia and Russia, rising over France, England and Ireland.

TEMPERATURE

Highest, 50° at Biarritz, 48° at Valmiera and Rotherhit, 46° at Lally and Papeham.
Lowest, (1) 17° at Nain, 21° at Karlstad, 27° at Lander; (2) 17° at Munich, 22° at Lyons, 23° at Paris; (3) 27° at Litch, 28° at Cambridge, 29° at Oxford.
 It is decreasing over France and Great Britain as a whole, and the differences at stations comparatively near together are in some instances very great.

WIND

Very light and anticyclonic at our northern and eastern stations and over Germany and the North Sea; SE to E at our western stations, and blowing very freely in most places — but less freely than it did yesterday.

WEATHER

Fine generally over the United Kingdom and France, but hazy in a few localities, and in Norway, with some rain; dull over North Germany, with snow at Berlin.
 Heavy rain has again fallen at Papeham, and a considerable quantity at Rode. Bright Aurora has been seen in the north-east of Scotland and north-west of England. Bright Sunshine recorded yesterday was about 4 hrs on our extreme western coast, 3.4 hrs at Stromness, but none at Aberdeen, York, Cambridge or London.

SEA

Going down steadily in the Channel, though still moderate over the western part of it.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is spreading more and more over our Islands, and still colder weather is probable with an increase of fog at our inland stations, and especially over London.

FORECASTS

For the 24 hours ending at NOON on 23rd DEC^r 1897.

DISTRICTS.

FORECASTS.

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

Calm and NW^{ly} airs; cold, hazy, fair.
 Calms and SE^{ly} airs; very cold, foggy.
 E^{ly} breezes, tight; very cold, much fog inland.

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.

SE^{ly} winds, moderating slowly; colder, fine.

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**.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnae	30.70	39	38	2	0	c	1	Valencia	30.32	50	47	E	5	om	4
Sumburgh Head	30.57	45	43	5	2	c	3	Scilly	30.32	49	45	ESE	5	c	4
Stornoway	30.54	40	39	2	0	b	0	Jersey	30.39	39	37	E	4	b	3
Aberdeen	30.63	42	40	SSW	1	em	1	Hurst Castle	30.37	40	37	ESE	4	em	3
Shields	30.64	43	40	SE	2	o	3	Dungeness	30.56	38	36	ESE	4	bc	3
Ardrossan	30.58	38	38	?	1	bf	1	North Foreland	30.56	38	37	E	5	c	4
Malin Head	30.49	42	42	SE	3	b	2	London (Westminster)	30.54	40	37	E	4	og	#
Belmullet	30.42	45	42	SE	3	b	*	Yarmouth	30.56	39	36	ESE	4	c	4
Holyhead	30.52	38	36	E	3	b	2	Rochefort	30.18	41	39	ESE	4	bc	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and light over the greater part of Western Europe, but cloudy or hazy in a few places, very rainy at Perpignan and Barcelona. Snow falling in Hungary, and dull unsettled weather over Lapland. Considerable rain at Rodez later and a further heavy fall at Perpignan. Bright Aurora seen over the northern parts of Great Britain.

Temperatures falling over our Islands and France, and falling very rapidly over Russia and Hungary. Morning readings highest 60° at Oron, and exceeding 55° on the southern shores of the Mediterranean generally; 55° at Barcelona, 52° at Ravenna, 48° at Scilly, 47° at Valencia (Ireland). Lowest 11-20° F. at Archangel, -4° at Moscow, +7° at Kiev, and below 20° over almost the whole of Russia, Poland and Hungary, (2) 21° (local) at Kain, 24° at Karlstad, 25° at Paris and Rhefort, 29° at Brussels and Lyons. Continuing to fall somewhat over Great Britain and France towards night.

Wind anticyclonic over almost the whole of Europe over the British Islands, but fresh to strong in force from the Est or SEst at many of the English and Irish stations; SW¹ in the northwest of Norway, and blowing strongly at Rodez. The E wind decreasing slightly in force on our coast later, and the W wind becoming somewhat pronounced over Lapland.

Barometer highest 30.6 in. and more to 30.4 in. in a large anticyclone covering the whole of northwestern Europe, and having its central area over the North Sea, Denmark, and the south of Scandinavia. Lowest (1) Below 30.0 in. over the Black Sea; (2) Below 30.1 in. over the north of Spain; (3) Below 30.2 in. over the northern extremity of the Gulf of Bothnia. The anticyclone increasing in intensity later and spreading somewhat to the westward, but the barometer falling over Lapland and the north of Russia.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France, at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on *Thursday, 23rd December, 1897.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		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.)		Max.	Min.
		Inch.	°				Inch.	Inch.	°	°	°							°	°	Inch.	
SCANDINAVIA.	Haparanda ...	30.08	18	H	4	b	30.23	+ .37	11	10	- 21	H	4	b	#	b	#	36	3	-	
	Hernösand ...	30.19	35	NW	6	b	30.45	+ .15	21	18	- 16	H	2	b	#	b	#	39	?	-	
	Stockholm ...	30.24	30	N	2	0	30.38	- .06	27	25	- 3	H	4	b	#	0	#	36	27	-	
	Wisby ...	30.31	32	NW	4	0	30.33	- .15	33	33	- 2	H	8	0	#	0	#	36	30	-	
	Karlstad ...	30.38	24	E	2	b	30.48	- .03	31	28	+ 10	NNE	2	0	#	b	#	36	30	-	
	Bodo ...	30.30	29	WSW	7	b	30.43	+ .34	27	24	- 10	SSW	4	bc	2	b	#	37	25	-	
	Christiansund ...	30.51	37	WSW	4	0	30.60	+ .05	34	32	- 7	ESE	3	S	4	0	#	41	34	0.20	
	Skudesnaes ...	30.53	39	Z	0	0	30.50	- .13	38	38	+ 1	Z	0	0	1	0	#	40	32	#	
	Færder (Christiania Fjord)	30.45	29	NW	1	b	30.46	- .09	33	30	+ 6	NNE	4	c	2	b	#	37	27	-	
	Skagen (The Scaw)	30.45	35	Z	0	b	30.42	- .14	39	37	+ 3	H	1	c	0	b	#	39	32	-	
Fanö ...	30.54	41	NW	4	0	30.46	- .19	41	39	+ 2	NW	4	c	#	0	#	41	39	-		
BRITISH ISLANDS.	Sumburgh Head	30.55	41	Z	0	b	30.50	- .11	42	41	- 1	SE	1	c	2	c	#	45	37	0.01	
	Stornoway ...	30.52	36	N	2	bc	30.41	- .14	35	35	+ 5	E	2	c	2	c	#	37	28	-	
	Wick ...	30.52	29	NW	2	b	30.45	- .10	25	25	- 8	H	1	bc	3	b	#	36	24	-	
	Nairn ...	30.57	18	Z	0	b	30.50	- .09	21	20	+ 4	Z	0	bm	0	bm	#	31	12	-	
	Aberdeen ...	30.56	30	NW	1	bm	30.51	- .10	23	22	- 10	NW	2	bcm	1	bm	#	34	23	-	
	Leith ...	30.59	31	Z	0	f	30.49	- .12	30	30	+ 3	SW	1	om	#	f	#	32	23	-	
	Shields ...	30.61	32	SSW	2	bm	30.53	- .14	29	29	- 5	SSW	2	m	2	bm	#	35	26	-	
	Spurn Head ...	30.63	37	SSW	2	b	30.56	- .12	39	37	+ 1	SW	2	c	2	b	#	43	32	-	
	York ...	30.63	33	SSE	1	b	30.57	- .13	26	26	- 8	S	1	f	#	f	#	39	25	-	
	Loughborough...	30.64	31	E	1	b	30.58	- .09	22	22	- 10	Z	0	of	#	bf of	#	40	21	-	
GERMANY & HOLLAND.	Ardrossan ...	30.55	31	NNE	1	bf	30.49	- .12	32	31	+ 2	NNE	1	cf	1	bf	#	34	28	-	
	Malin Head ...	30.47	36	SE	1	bm	30.38	- .12	37	36	+ 2	SE	1	bcm	0	bm	#	40	34	-	
	Belmullet ...	30.38	41	SSE	3	b	30.30	- .14	41	40	+ 1	S	1	b	#	bc, b	#	43	39	-	
	Donaghadee ...	30.52	43	SE	6	bc	30.47	- .10	40	39	- 3	SSW	5	b	3	bc	#	44	38	-	
	Liverpool (Bidston)	30.59	34	SE	2	b	30.52	- .13	30	28	- 3	ESE	3	b	?	b	#	36	29	-	
	Holyhead ...	30.54	35	E	1	b	30.47	- .11	40	36	+ 6	S	1	cm	1	bm, b	#	40	32	-	
	Parsonstown ...	30.45	40	SE	3	b	30.37	- .11	41	39	0	SE	1	bc	#	b	#	43	39	-	
	Valencia ...	30.31	48	SE	5	cq	30.27	- .09	48	44	0	SE	5	bcq	4	cq	#	49	46	-	
	Roche's Point ..	30.43	48	SE	5	bc	30.39	- .06	48	46	0	SSE	5	c	4	bc	#	49	46	-	
	Pembroke (St. Ann's Hd.)	30.49	42	ESE	4	b	30.44	- .07	43	42	+ 4	SE	4	c	3	b	#	43	38	-	
FRANCE & BELGIUM.	Seilly ...	30.40	48	ESE	5	c	30.34	- .08	44	41	- 2	ESE	5	c	3	bc, b	#	49	40	-	
	Prawle Point ...	30.51	42	E	4	b	30.48	- .04	43	39	0	SE	4	b	3	b	#	49	40	-	
	Jersey (St. Aubin's)	30.51	38	ESE	3	bm	30.51	- .02	38	35	+ 4	ESE	4	bm	3	b, bm	#	38	33	-	
	Hurst Castle ...	30.57	38	ESE	3	bm	30.53	- .06	37	36	+ 1	NNE	2	bcm	1	bm	#	42	33	-	
	Dungeness ...	30.60	41	E	3	b	30.56	- .06	40	38	+ 3	SE	2	bc	1	b	#	41	34	-	
	North Foreland	30.64	41	E	3	b	30.59	- .07	39	37	+ 2	Z	0	bc	1	b	#	41	35	-	
	London (Brixton) ...	30.62	37	ESE	1	bm	30.57	- .07	28	27	- 3	E	1	f	#	bf, bm	#	41	27	-	
	Oxford ...	30.64	28	NNE	1	b	30.58	- .08	24	24	- 5	Z	0	f	#	b	#	36	24	-	
	Cambridge ...	30.65	32	ESE	1	b	30.59	- .10	22	22	- 6	NW	1	bc	#	b	#	42	20	-	
	Yarmouth ...	30.61	38	SE	2	b	30.57	- .08	31	30	- 8	WSW	1	bcf	3	b	#	40	28	-	
PENIN- SULA.	Cuxhaven ...	30.61	34	N	2	0	30.50	- .20	40	40	+ 8	NW	2	0	#	0	#	41	32	-	
	Berlin ...	30.56	33	N	4	0	30.44	- .20	35	34	+ 7	N	4	r	#	0	#	35	28	0.04	
	Wiesbaden ...	#	#	#	#	#	30.60	- .11	22	21	- 3	E	2	b	#	#	#	34	21	-	
	Munich...	30.59	20	E	3	b	30.52	- .08	17	16	0	SE	3	b	#	b	#	27	16	-	
	The Helder ...	30.68	29	Z	0	b	30.59	- .14	26	25	- 5	SSE	1	b	1	b	#	34	26	-	
	Brussels ...	#	#	#	#	#	30.62	- .07	21	21	- 3	E	1	m	#	b	#	33	21	-	
	Cape Gris Nez ..	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Paris ...	30.57	29	NNE	2	b	30.57	00	22	22	- 1	NNE	1	b	#	b	#	38	21	-	
	Brest ...	30.43	41	E	2	b	30.39	- .06	35	34	+ 1	ESE	4	0	3	b	#	43	32	-	
	Lorient...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
FRANCE & BELGIUM.	Rocheport ...	30.31	36	ESE	4	0	30.35	+ .05	30	30	0	E	4	b	#	0	#	37	30	-	
	Belfort ...	30.56	25	ESE	5	b	30.56	+ .04	19	18	- 3	ESE	2	m	#	b	#	30	19	-	
	Lyons ...	30.53	30	N	1	0	30.54	+ .07	31	29	+ 1	NNE	1	0	#	0	#	32	30	-	
	Nice ...	30.39	41	N	1	b	30.42	+ .06	35	31	- 1	E	1	b	4	b	#	48	34	-	
	Perpignan ...	30.39	45	Z	0	bc	30.42	+ .08	43	42	- 3	NNE	2	0	#	bc	#	49	42	-	
	Biarritz ...	30.28	42	ESE	3	b	30.26	+ .01	38	37	- 12	E	4	m	2	bc	#	52	37	-	
PENIN- SULA.	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Lisbon ...	30.36	53	E	1	0	30.28	- .03	49	49	+ 2	NNE	3	r	#	0	#	59	47	0.20	
	Azores (P. Delgada)	30.13	61	SSW	4	bc	30.04	+ .03	62	60	+ 1	SSW	5	m	6	bc	#	64	61	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 2.2 hrs;

WEATHER CHARTS

FOR Thursday, 23rd December, 1897.

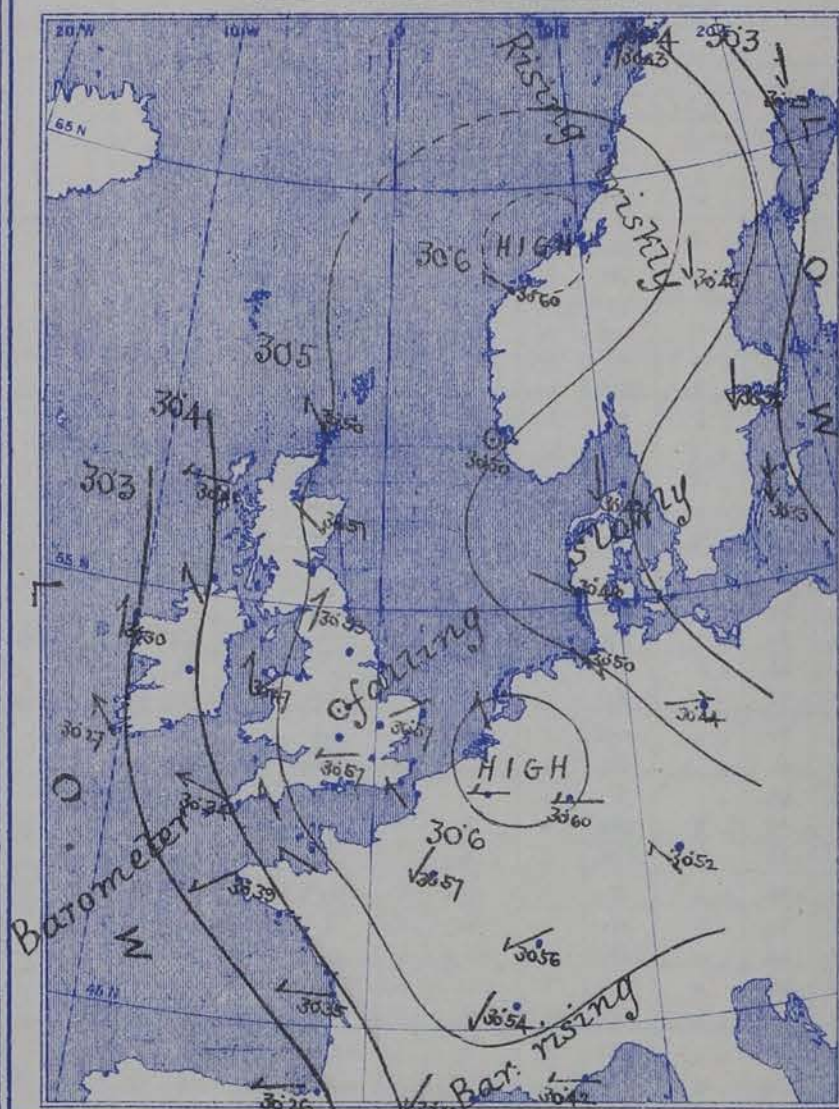
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew 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 ≡≡≡

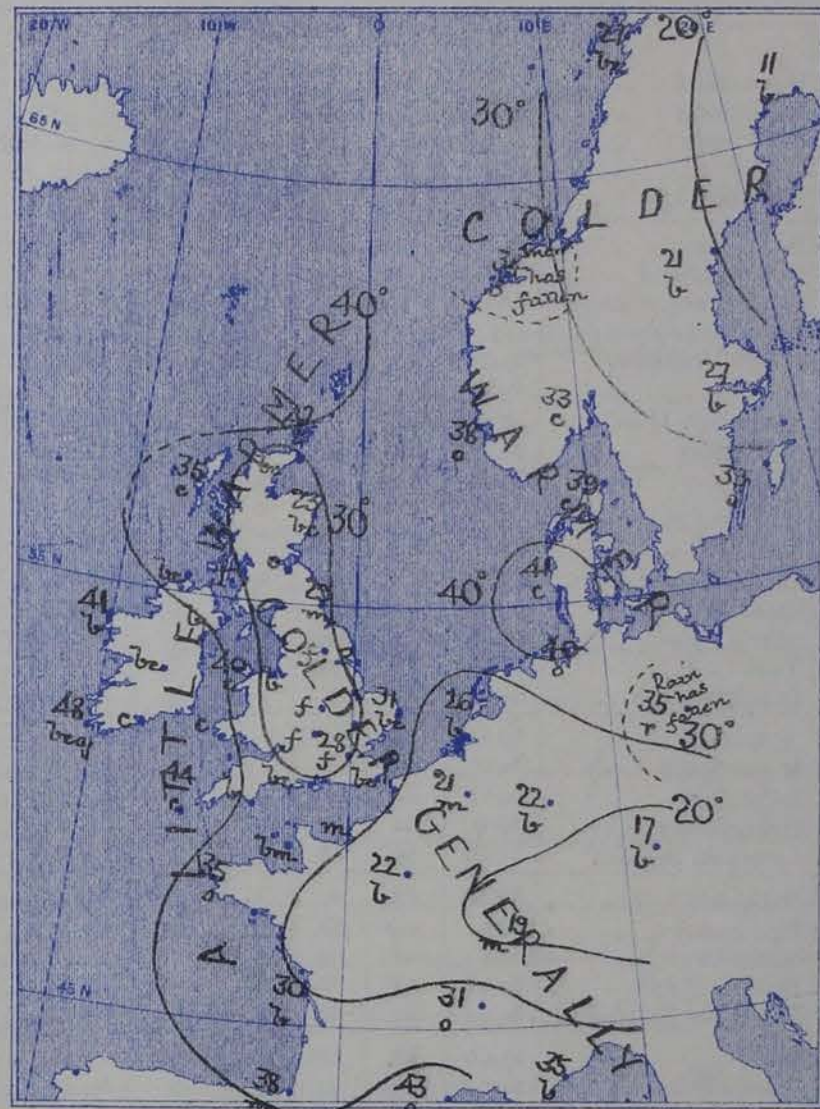


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.0	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.903	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in. and more to 30.5 in. in an anticyclone system of irregular form covering the west of France, the Netherlands, England, the North Sea, and some parts of Norway.
Lowest, below 30.3 in. both over the north of Spain and over the eastern side of the Baltic, with the Gulf of Finland.
Gradients moderate for SE winds over our western districts and the Bay of Biscay, very slight over England and the Gulf of Finland.
Barometer rising again quickly over the northern part of Scandinavia; falling slightly in our Islands, but is much above the normal value all over our Islands and NW Europe.

TEMPERATURE

Highest, 48° at Valencia and Rochefort, 44° at Sicily, 43° at Brautsk and St. Anne's Head, 40° at Donaghadee.
Lowest (1) 11° F. at Haparanda, 21° at Helsingfors, 27° at Moscow; (2) 17° at Munich, 19° at Belfast, 21° at Brussels, 22° at Paris; (3) 22° to 28° over England.
It has again fallen over Great Britain as a whole and over France, risen over North Germany. On the grass it fell to 17° at Oxford and to 20° in the south of London.

WIND

Still fresh to moderate from between SE and E. on our western coasts and over the Bay of Biscay; Calm over the greater part of England and Scotland. N over the Baltic - a gale at Riga.

WEATHER

Fine generally - foggy in many parts of England, hazy in some parts of France - clear elsewhere. Snow is reported at Churichmond.
In many parts of London the fog is thick and dry.
Bright Sunshine recorded yesterday, exceeded 7 hours at Hastings, and ranged from 5 to 6.5 hours at our south coast stations generally.

SEA

Moderate off the south of Ireland, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An increase of the fog is probable. Much fog is likely over England - but dry weather generally.

FORECASTS

For the 24 hours ending at NOON on 24TH DEC^R.

1897.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	Calms and SE ² airs; very cold, fine, hazy.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Variable airs; much fog, very cold.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	E ² airs; thick fog (especially in London) very cold.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^o 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE ² winds, fresh to moderate; fine.
9	IRELAND NORTH	
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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Direc.						Dry.	Wet.	Direc.			
Skudesnaes	30.60	40	38	2	0	c	1	Valencia	30.32	49	44	SE	5	cq	5
Sumburgh Head	30.57	43	41	2	0	c	2	Scilly	30.40	48	45	ESE	5	bc	3
Stornoway	30.54	37	37	w	2	c	2	Jersey	30.51	38	35	E	4	b	3
Aberdeen	30.56	34	32	w	1	bm	1	Hurst Castle	30.57	42	39	EHE	3	bm	2
Shields	30.62	34	33	SSW	3	bcm	2	Dungeness	30.60	40	37	EHE	2	b	1
Ardrossan	30.57	33	33	NHE	1	bf	1	North Foreland	30.62	41	38	E	3	b	2
Malin Head	30.47	39	39	SE	3	b	2	London (Westminster)	30.63	42	38	E	2	bf	#
Belmullet	30.40	43	40	SSE	3	bc	*	Yarmouth	30.63	40	38	SE	4	b	3
Holyhead	30.55	39	36	2	0	bm	0	Rochefort	30.31	36	33	EHE	4	0	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and quiet over northwestern, central and southern Europe, but with some haze or fog in places; unsettled over northern Europe, with rain at Christiansund, snow at Petersburg, Riga, and Minsk. Unsettled over the southern parts of the Mediterranean also, with rain in several places. Some rain later in the extreme north and the extreme south of Europe.

Temperature continuing to fall over the British Islands and the neighbourhood as well as over southeastern Europe, rising decidedly over Finland and the Baltic Provinces. Morning readings highest 55° to 60° on the southern shores of the Mediterranean, 50° at Barritz, 48° at Rocher Point and Valencia, 43° at Donaghadee. Lowest (1) -17° F. at Moscow, and below $+10^{\circ}$ over the south of Russia generally; 14° at Archangel, 10° at St Petersburg, 21° at Konstad⁽²⁾, 17° at Munich, 23° at Paris, 27° at Leith, 28° at Cambridge. Still very low at Narvik (17°). Decreasing still further over Great Britain and France at night, and falling rapidly over Lapland and Finland.

Kind being to a gale from the Wnd on the northwest coast of Norway, moderate from SW. over the Gulf of Bothnia; (2) light and anticyclonic over Central Europe, the Netherlands, and all countries bordering on the North Sea; (3) fresh from SE. over Iceland, Wales, and the southwest of England, moderate from E. over the Bay of Biscay; (4) E³ and fresh over the Mediterranean; (5) NW³ strong in the S. of Russia

Barometer highest 30.7 in. and more to 30.5 in. in a complex anticyclone covering the whole of the central and northern countries. Lowest, below 29.9 in. in a depression over Lapland, and below 30.1 in. at Malta and over the northeastern parts of Africa. Falling slightly in our Islands later, but beginning to rise in the north of Scandinavia.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 24th December,

1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				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.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.28	-1	Z	0	b	30.26	+0.03	-10	-11	-21	SSW	2	b	#	b	#	12	-10	-	
	Hernösand ...	30.51	8	Z	0	b	30.38	-0.07	12	11	-9	Z	0	0	#	b	#	34	7	-	
	Stockholm ...	30.54	17	NW	2	b	30.49	+1.1	18	17	-9	W	2	b	#	b	#	30	16	-	
	Wisby ...	30.51	29	H	6	b	30.51	+1.8	27	25	-6	H	4	b	#	b	#	34	27	-	
	Karlstad ...	30.58	21	Z	0	b	30.52	+0.04	13	12	-18	H	2	bc	#	b	#	#	#	-	
	Bodö ...	30.39	27	NW	4	bc	30.26	-1.7	24	22	-3	E	4	S	1	bc	#	27	21	-	
	Christiansund ...	30.57	32	SSE	3	S	30.47	-1.3	34	32	0	W	3	0	4	S	#	34	30	0.20	
	Skudesnaes ...	30.52	38	Z	0	0	30.42	-0.08	37	36	-1	?	6	0	8	bc.0	#	40	34	#	
	Færder (Christiania Fjord)	30.59	31	ESE	1	0	30.52	+0.06	32	29	-1	SW	2	0	1	0	#	34	30	-	
	Skagen (The Scaw)	30.58	32	SE	1	0	30.53	+1.1	32	30	-7	SE	1	0	0	0	#	39	30	-	
Fanø ...	30.46	39	NW	2	c	30.44	-0.02	35	35	-6	ESE	1	b	#	c	#	41	35	-		
BRITISH ISLANDS.	Sumburgh Head	30.47	43	SE	2	0	30.25	-2.5	44	42	+2	S	3	0	4	c.0	#	45	38	0.01	
	Stornoway ...	30.33	42	S	3	0	30.15	-2.6	45	43	+10	S	5	0	5	0	#	45	33	-	
	Wick ...	?	35	SE	3	0	30.20	-2.5	36	36	+11	SW	1	c	1	0	#	41	25	-	
	Nairn ...	30.42	22	Z	0	m	30.24	-2.6	27	24	+6	Z	0	0	1	m	#	27	15	-	
	Aberdeen ...	30.46	29	NW	1	bc.m	30.29	-2.2	35	33	+12	S	1	cm	1	cm, bc.m	#	37	23	-	
	Leith ...	30.45	32	SW	1	f	30.30	-1.9	32	31	+2	Z	0	f	#	f	#	33	22	-	
	Shields ...	30.48	33	SW	1	f	30.37	-1.6	34	33	+5	SW	2	f	2	cm. f	#	37	28	-	
	Spurn Head ...	30.50	37	S	2	b	30.41	-1.5	37	35	-2	S	1	c	2	c. bf	#	40	33	-	
	York ...	30.50	29	E	1	f	30.43	-1.4	27	27	+1	E	1	f	#	f	#	31	24	-	
	Loughborough ...	30.52	26	ESE	1	0	30.43	-1.5	25	25	+3	SE	1	of	#	f. cm. f	#	34	20	-	
GERMANY & HOLLAND.	Ardrossan ...	30.42	34	NNE	1	of	30.29	-2.0	37	37	+5	NNE	3	of	2	bf. of	#	37	30	-	
	Malin Head ...	30.29	40	SSE	4	cm	30.14	-2.4	44	43	+7	SSE	4	og	2	cm	#	44	36	-	
	Belmullet ...	30.22	45	E	1	0	30.08	-2.7	43	42	+2	SSE	4	og	#	0	#	45	40	-	
	Donaghadee ...	30.39	45	S	4	cm	30.25	-2.2	45	43	+5	SSW	6	bc	4	cm	#	46	39	-	
	Liverpool (Bidston)	30.47	34	SE	4	b	30.36	-1.6	32	32	+2	SE	3	f	?	bm	#	38	29	-	
	Holyhead ...	30.43	44	SSW	1	b	30.27	-2.0	43	40	+3	S	3	cm	2	bc.m, bm	#	45	36	-	
	Parsonstown ...	30.31	44	SE	2	c	30.14	-2.3	46	43	+5	SE	2	0		c	#	47	40	-	
	Valencia ...	30.22	46	E	4	og	30.00	-2.7	50	46	+2	SE	6	og	4	og	#	50	47	-	
	Roche's Point ...	30.33	47	SSE	5	0	30.14	-2.5	50	48	+2	S	6	og	5	b.0	#	50	46	-	
	Pembroke (St. Ann's Hd.)	30.34	46	ESE	5	b	30.25	-1.9	45	43	+2	SSE	5	bc	4	b	#	46	42	-	
FRANCE & BELGIUM.	Seilly ...	30.35	48	SE	5	0	30.20	-1.4	47	44	+3	SSE	5	0	3	0	#	49	40	-	
	Prawle Point ...	30.48	41	SE	3	b	30.32	-1.6	45	45	+2	ESE	4	bc	3	c	#	47	43	-	
	Jersey (St. Aubin's)	30.46	40	ESE	2	bm	30.36	-1.5	41	38	+3	ESE	4	bc.m	3	b. bm	#	44	35	-	
	Hurst Castle ...	30.49	43	SE	2	b	30.38	-1.5	40	38	+3	E	3	cm	1	b	#	48	35	-	
	Dungeness ...	30.53	41	ESE	1	b	30.45	-1.1	40	39	0	ESE	3	bc	2	b	#	49	39	-	
	North Foreland	30.56	39	E	2	b	30.47	-1.2	38	37	+1	ESE	2	c	2	b	#	46	36	-	
	London (Brixton) ...	30.54	35	SSE	1	gf	30.44	-1.3	27	26	-1	Z	0	f	#	f	#	39	26	-	
	Oxford ...	30.53	27	Z	0	b	30.44	-1.4	23	23	-1	E	1	f	#	bc. f	#	36	21	-	
	Cambridge ...	30.54	31	NW	1	b	30.46	-1.3	27	27	+5	SW	1	cm	#	0.6	#	33	21	-	
	Yarmouth ...	30.52	35	E	0	bc.f	30.46	-1.1	30	30	-1	NW	1	f	3	bc.f	#	37	28	-	
PENIN- SULA.	Cuxhaven ...	30.51	36	W	4	0	30.47	-0.3	36	36	-4	W	2	0	#	0	#	40	36	-	
	Berlin ...	30.48	33	NW	2	0	30.53	+0.09	34	32	-1	NW	2	0	#	0	#	37	32	-	
	Wiesbaden ...	#	#	#	#	#	30.52	-0.08	24	23	+2	E	2	0	#	#	#	32	22	-	
	Munich ...	30.53	27	Z	0	0	30.51	-0.01	22	22	+5	SSE	3	0	#	0	#	30	16	-	
	The Helder ...	30.55	31	SSW	1	b	30.48	-1.1	30	29	+4	S	1	0	1	b	#	34	25	-	
	Brussels ...	#	#	#	#	#	30.52	-1.0	28	26	+7	SW	1	b	#	b	#	36	21	-	
	Cape Gris Nez ...	30.46	36	ESE	1	b	30.39	-1.0	33	30	0	S	1	m	1	m	#	41	28	-	
	Paris ...	30.52	30	NE	1	bc	30.47	-1.0	22	22	0	E	1	b	#	bc	#	37	21	-	
	Brest ...	30.36	43	E	4	b	30.26	-1.3	39	37	+4	ESE	3	0	3	b	#	45	32	-	
	Lorient ...	#	#	#	#	#	30.52	-1.0	28	26	+7	SW	1	b	#	b	#	36	21	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport ... hrs;

WEATHER CHARTS

FOR Friday, 24th December, 1897.

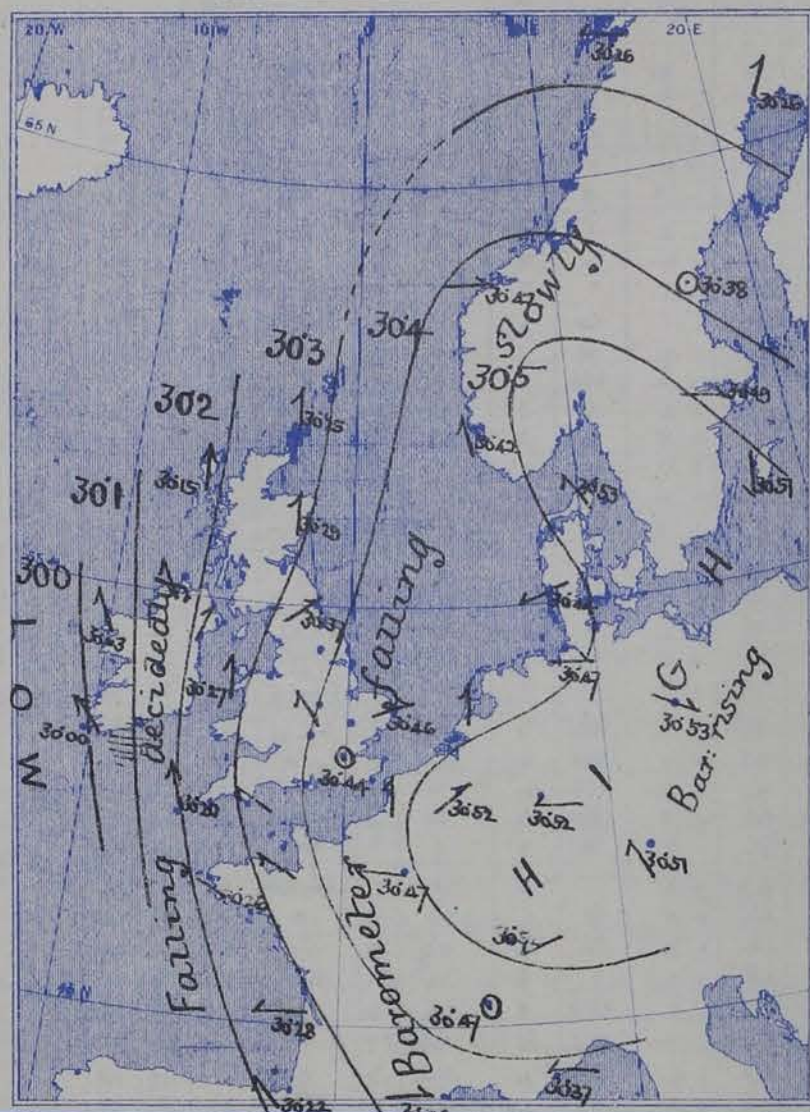
BAROMETER, WIND AND SEA.

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 1 to 4 →→→ ; Calm ○
Force 8 to 10 →→→ ; Force 1 to 4 →→→ ;

SEA—Rough ≡≡≡ ; High ≡≡≡

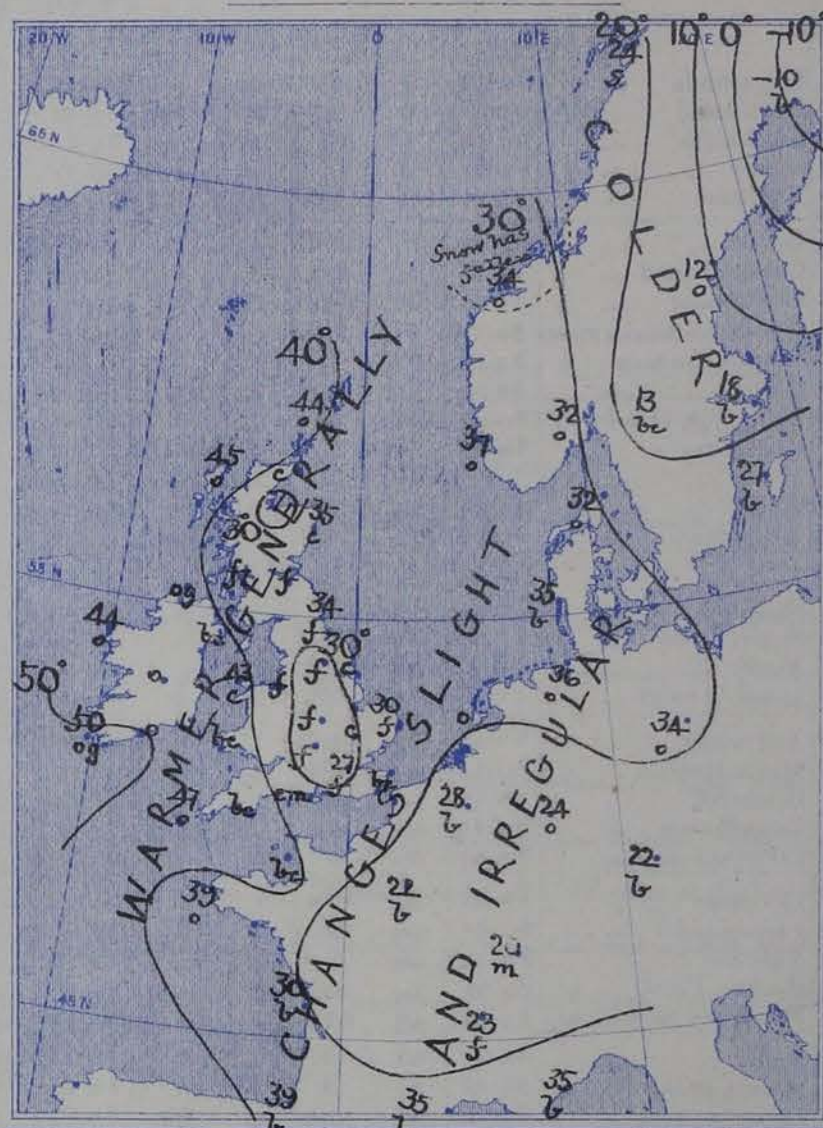


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and more to 30.3 in. in a large anticyclone which still covers the eastern half of our area.
 Lowest, Below 30.0 in. off the west of Ireland.
 Gradients very slight over the eastern districts, moderate (and increasing) for S² winds in the west.
 Barometer falling decidedly over Ireland, moderately over Wales and the west of England.

TEMPERATURE

Highest, 50° on the south coast of Ireland, 47° at Lillie, 45° at Rotterdam.
 Lowest, (1) -10° F. at Haparanda, +12° at Helsingfors, 17° at Killybegs; (2) 10° at Belfast, 22° at Paris and Munich; (3) 23° at Oxford, 27° at Kilm and York.
 It has been as low as 15° at Kilm during the night, and 21° at Oxford and Cambridge. At 8 am, however, it showed some tendency to rise generally.

WIND

Extremely light and anticyclonic over all the eastern countries of northwestern Europe.
 SE to S in the west and northeast, and increasing decidedly in strength.
 This S² current appears to be spreading eastwards.

WEATHER

Still very foggy over England, fine and bright over France, overcast and gloomy in Ireland.
 The only stations reporting any rainfall are Christchurch and Lumbagh Head.
 Bright Sunshine recorded yesterday was Kilm Hospital 6.0 hrs., Llandudno 4.8, Hartings 4.8. At Lillie, London, Cambridge, Pembroke, Valencia, York, and the most northern stations there was none.

SEA

Rising on the south coast of Ireland, smooth on our southeast coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is moving eastwards, depressions are appearing off the west of Ireland, and threaten our western coast with gales. These may extend eastwards later. At present our western coast only are warned. The fog will probably be cleared from the English stations today, and temperature rise.

FORECASTS

For the 24 hours ending at NOON on 25th DEC: 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ² breezes, freshening considerably; milder, some rain. SE ² airs, fog clearing, temperature rising, fair. Calms and fogs, followed by SE ² breezes, light, fine, milder.	6 SCOTLAND WEST	S ² winds, strong; squally, showery, mild.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	
		At 10.30 am to districts 0, 9, and 10 "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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.51	40	39	N	1	bc	1	Valencia ...	30.25	49	45	SSE	4	oq	4
Sumburgh Head ...	30.49	44	43	SE	1	c	2	Scilly ...	30.35	47	44	SSE	5	o	3
Stornoway ...	30.38	38	37	S	3	o	3	Jersey ...	30.48	43	38	SE	3	b	3
Aberdeen ...	30.48	27	26	NW	1	cm	1	Hurst Castle ...	30.49	48	44	ESE	1	b	1
Shields ...	30.50	35	34	SW	2	cm	2	Dungeness ...	30.53	45	42	SE	1	c	1
Ardrossan ...	30.42	35	35	NNE	1	bf	1	North Foreland ...	30.56	42	41	E	2	c	2
Malin Head ...	30.35	40	40	SE	2	em	0	London (Westminster) ...	30.54	43	40	Z	0	f	#
Belmullet ...	30.26	45	42	E	1	o	*	Yarmouth ...	30.53	37	36	MSW	1	bc	3
Holyhead ...	30.45	45	40	SSW	2	bcm	1	Rochefort ...	30.34	43	39	E	3	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information not received.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 25 December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			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.)	Max.		Min.
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
Haparanda ...		30.21	-22	E	2	b	29.85	-1.41	5	4	+ 15	S	2	S	#	b	#	?	-29	-	
Hernösand ...		30.28	15	Z	0	b	30.06	-1.32	31	30	+ 19	Z	0	o	#	b	#	31	5	-	
Stockholm ...		30.37	19	Z	0	b	30.29	-1.20	23	22	+ 5	Z	0	c	#	b	#	23	14	-	
Wisby ...		30.41	29	N	4	b	30.37	-1.14	31	29	+ 4	NNW	6	o	#	b	#	31	25	-	
Karlstad ...		30.44	21	NNW	2	b	30.32	-1.20	18	17	+ 5	W	2	o	#	bc	#	#	#	-	
Bodö ...		30.02	28	E	4	s	29.67	-1.59	40	?	+ 16	WSW	8	r	5	s	#	40	23	0.67	
Christiansund ...		30.32	32	SW	2	b	30.12	-1.35	41	37	+ 7	SW	3	o	3	b	#	41	30	-	
Skudesnaes ...		30.30	40	SSE	6	o	30.25	-1.7	39	37	+ 2	SSE	6	o	4	o	#	40	34	#	
Færder (Christiania Fjord)		30.44	30	NE	1	o	30.31	-1.21	33	33	+ 1	SW	4	c	2	o	#	33	28	-	
Skagen (The Scaw)		30.46	33	SW	2	o	30.41	-1.12	32	31	0	SW	1	o	0	o	#	34	30	-	
Fanö ...		30.42	36	E	1	o	30.39	-1.05	34	33	- 1	E	1	c	#	o	#	37	34	-	
Sumburgh Head		30.14	40	Z	0	o	29.98	-1.27	40	39	- 4	W	1	o	3	c.o	#	46	37	-	
Stornoway ...		30.03	47	SW	5	o	29.89	-1.26	47	46	+ 2	S	5	og	5	o	0.0	47	43	-	
Wick ...		30.10	36	S	2	o	30.00	-1.20	38	38	+ 2	S	1	c	2	o	#	42	30	-	
Nairn ...		30.14	34	Z	0	b	30.02	-1.22	35	33	+ 8	Z	0	c	0	b	#	35	25	-	
Aberdeen ...		30.20	37	SSW	2	bm	30.10	-1.19	36	35	+ 1	SW	1	cm	1	bc, bm	1.8	42	34	-	
Leith ...		30.20	35	Z	0	f	30.14	-1.16	37	36	+ 5	Z	0	om	#	f	#	42	27	-	
Shields ...		30.27	35	SW	3	om	30.23	-1.14	29	29	- 5	SSW	3	m	2	cf, om	#	37	27	-	
Spurn Head ...		30.31	38	S	4	b	30.32	-1.09	34	33	- 3	S	3	b	3	b	#	39	33	-	
York ...		30.30	32	SE	1	b	30.30	-1.13	29	29	+ 2	SE	1	b	#	f, b	0.0	34	26	-	
Loughborough ...		30.33	30	SE	1	b	30.34	-1.09	29	29	+ 4	SE	2	bm	#	cm, bf, b	#	34	25	-	
Ardrossan ...		30.16	38	NNE	3	bf	30.11	-1.18	45	45	+ 8	SE	4	of	3	bf	#	45	35	-	
Malin Head ...		30.04	44	SSE	3	bc	29.88	-1.26	49	49	+ 5	SSW	5	c	4	b	#	49	36	-	
Belmullet ...		29.98	47	SSE	3	o	29.99	-1.04	49	48	+ 6	WSW	2	o	#	bc, o	#	52	41	0.01	
Donaghadee ...		30.14	46	S	6	c	30.11	-1.14	48	47	+ 3	S	6	bc	4	c	#	48	44	-	
Liverpool (Bidston)		30.24	33	ESE	3	b	30.27	-1.09	31	30	- 1	SE	4	b	?	f, b	#	36	31	-	
Holyhead ...		30.19	45	S	3	b	30.21	-1.06	45	43	+ 2	S	4	ogm	3	c, b	#	46	40	-	
Parsonstown ...		30.05	45	SE	2	bc	30.09	-1.05	49	48	+ 3	SE	1	o	#	bc, r	0.6	50	44	0.05	
Valencia ...		29.88	51	SE	7	o	30.07	+ 1.07	50	49	0	SSE	2	bm	4	og, o	0.0	54	48	0.03	
Roche's Point ...		30.05	51	SSE	6	o	30.11	-1.03	50	50	0	S	1	r	4	o, rf	#	52	48	0.34	
Pembroke (St. Ann's Hd.)		30.16	46	SSE	5	o	30.25	-1.00	47	45	+ 2	S	4	og	4	o	1.3	47	45	-	
Scilly ...		30.10	50	SSE	6	o	30.18	-1.02	50	48	+ 3	SSE	4	bc	5	c, o	1.0	51	44	-	
Prawle Point ...		30.26	45	ESE	4	bc	30.29	-1.03	44	42	- 1	SSE	3	b	2	bc	#	46	43	-	
Jersey (St. Aubin's)		30.29	45	SE	4	b	30.32	-1.04	39	37	- 2	SE	3	bm	3	bc, b	#	46	37	-	
Hurst Castle ...		30.32	43	SE	2	bm	30.30	-1.06	40	38	0	E	2	bm	2	cm, bm	#	48	39	-	
Dungeness ...		30.38	42	SE	2	c	30.38	-1.07	38	37	- 2	SE	3	b	2	c	#	45	38	-	
North Foreland		30.41	41	S	2	bc	30.39	-1.08	38	37	0	SSE	2	bc	2	c, bc	#	44	36	-	
London (Brixton) ...		30.35	33	SE	2	om	30.39	-1.05	28	27	+ 1	Z	0	f	#	gf, om	0.0	37	26	-	
Oxford ...		30.34	36	SSE	2	bf	30.36	-1.08	28	28	+ 5	SE	1	bf	#	bf	#	38	23	-	
Cambridge ...		30.38	34	S	1	b	30.38	-1.08	28	28	+ 1	S	1	b	#	b	1.3	41	25	-	
Yarmouth ...		30.37	39	Z	0	b	30.38	-1.08	34	33	+ 4	SE	2	bm	2	bf, b	#	40	29	-	
Cuxhaven ...		30.46	36	WSW	2	o	30.41	-1.06	33	33	- 3	SW	1	o	#	o	#	37	32	-	
Berlin ...		30.47	31	Z	0	f	30.45	-1.08	34	32	0	W	1	o	#	f	#	36	31	0.04	
Wiesbaden ...		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Munich ...		30.43	21	E	4	b	30.44	-1.07	23	23	+ 1	SE	3	o	#	b	#	30	18	-	
The Helder ...		30.41	31	S	1	m	30.42	-1.06	25	24	- 5	S	1	m	1	m	#	34	25	-	
Brussels ...		#	#	#	#	#	30.45	-1.07	29	27	+ 1	ESE	1	b	#	o	#	39	26	-	
Cape Gris Nez ...		30.33	36	ESE	1	m	30.34	-1.05	31	28	- 2	SE	1	m	0	m	#	41	27	-	
Paris ...		30.40	29	Z	0	b	30.38	-1.09	23	23	+ 1	NE	2	b	#	b	#	37	21	-	
Brest ...		30.19	44	SE	3	o	30.21	-1.05	41	39	+ 2	E	3	bc	3	o	#	46	34	-	
Lorient ...		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Rochefort ...		30.23	39	E	3	b	30.24	-1.04	33	32	+ 3	E	3	b	#	b	#	49	28	-	
Belfort ...		30.41	24	E	2	m	30.46	-1.06	21	20	+ 1	ENE	2	bc	#	m	#	32	20	-	
Lyons ...		30.44	25	N	1	f	30.40	-1.07	25	25	+ 2	SE	1	f	#	f	#	28	23	-	
Nice ...		30.38	38	E	1	b	30.39	+ 1.02	35	33	0	Z	0	f	1	b	#	48	30	-	
Perpignan ...		30.31	40	NE	1	b	30.34	-1.02	33	33	- 2	Z	0	b	#	b	#	50	31	-	
Biarritz ...		30.45	48	SSE	3	b	30.19	-1.03	38	34	- 1	SE	3	b	2	b	#	55	27	-	
Corunna ...		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Lisbon ...		30.05	54	ESE	5	o	30.09	-1.13	49	46	- 4	NE	5	b	#	o	#	57	48	1.14	
Azores (P. Delgada)		30.11	62	WSW	5	bc	30.21	+ 1.13	63	61	+ 5	W	4	o	3	bc	#	64	58	0.04	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR SATURDAY, 25th DECEMBER, 1897.

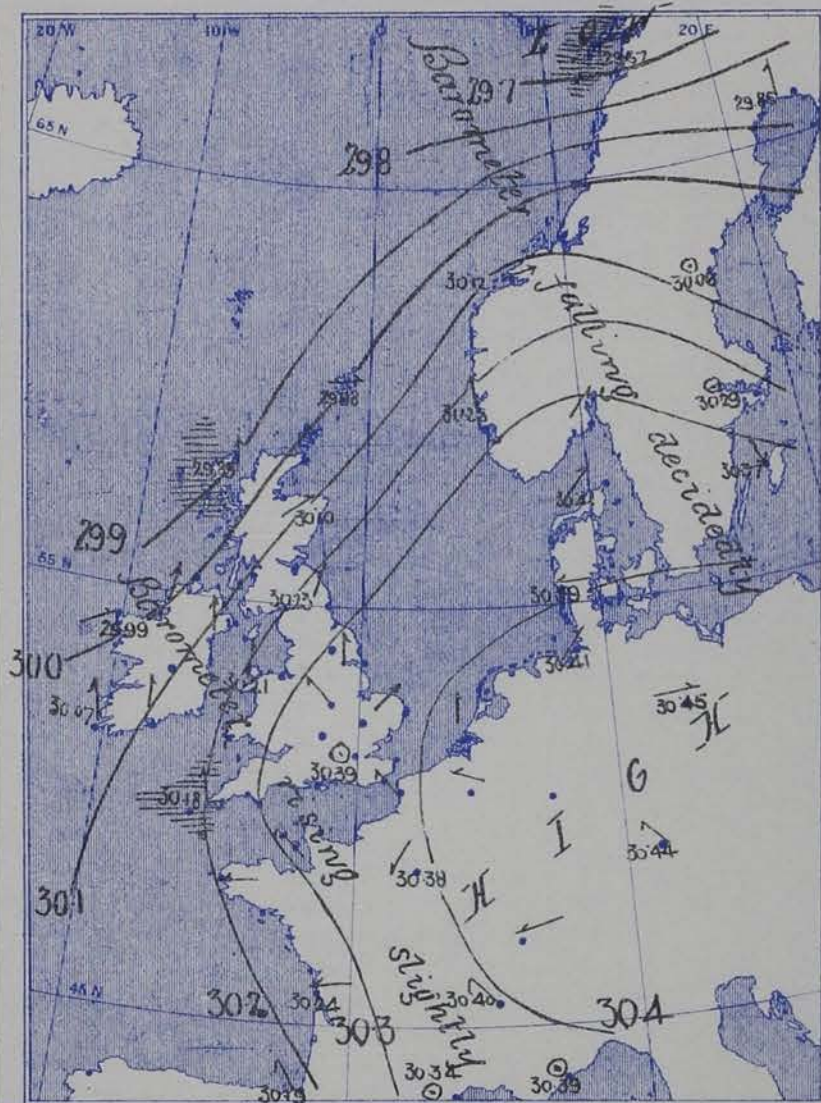
BAROMETER, WIND AND SEA.

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 ≡≡≡

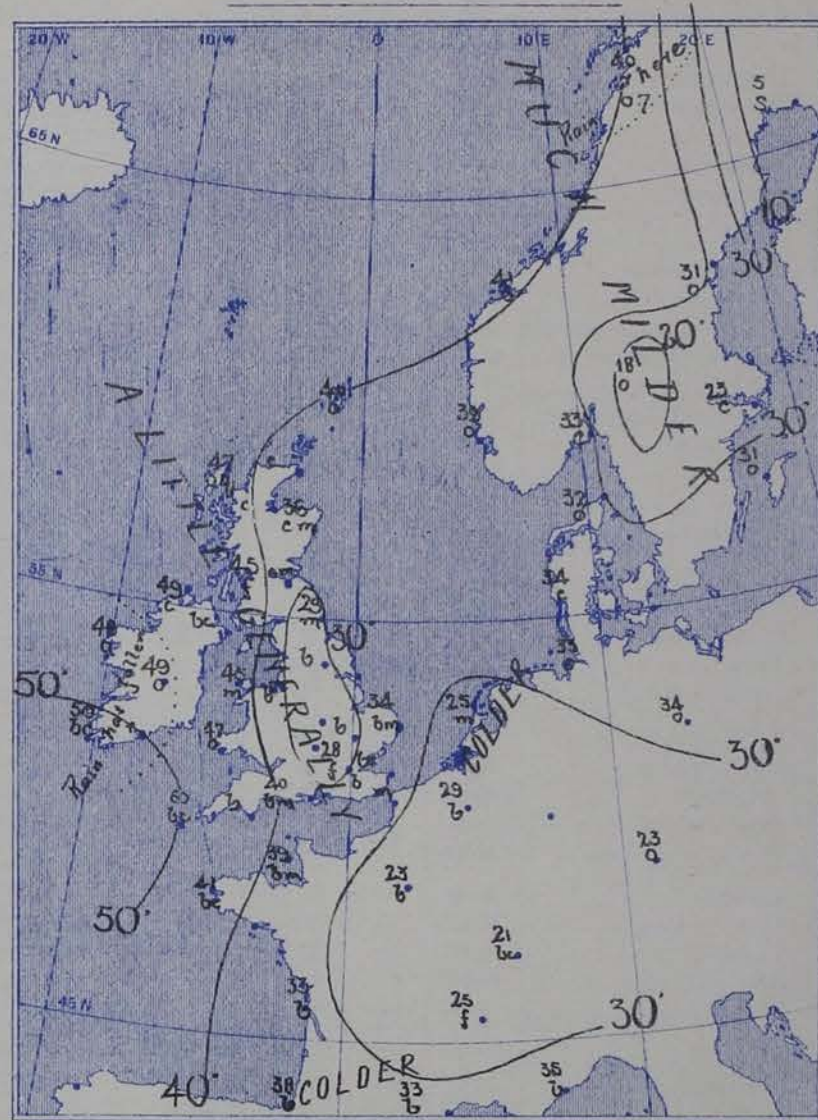


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 83, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and more over Germany, Austria, and the north of Italy, and exceeding 30.2 in. over France, England, and the greater part of the North Sea, Denmark, and the south of Scandinavia.
 Lowest, 29.7 in. and less, over the western part of Lapland, and below 29.9 in. over the Hebrides, and apparently still lower in the neighbourhood of the Azores Islands.
 Gradients slight over France, Germany, and the North Sea, moderate for S¹ and SE¹ winds, over our Islands.
 Barometer rising over Ireland, and inclined to rise over England, falling locally over Scotland and Scandinavia.

TEMPERATURE

Highest, 50° to 48° on the extreme southwest coasts of our Islands, 49° at Linton, at Loughmutton, and Malin H¹, 47° at Hornoway.
 Lowest, (1) 5° F. at Haparanda, 23° at Moscow; (2) 21° at Belfast, 23° at Munich and Paris, 25° at Lyons; (3) 28° at London, Oxford and Cambridge, 29° at Loughborough and York.
 It has again risen at our western stations and in Scotland, but the change has not reached the south coast of England.

WIND

Light and anticyclonic over Germany, France, the North Sea, and the eastern half of England.
 S¹, strong to light, on all our west and northwest coasts.
 E¹ and SE¹, light, over the Bay of Biscay.
 It blew a moderate to fresh gale on many parts of our western coasts last night.

WEATHER

Unsettled and very changeable on our west and northwest coasts, fine over our eastern districts and France—with very thick fog in the south of London—dull over Germany and Scandinavia, with snow and rain over Lapland.
 Some rain has fallen in Ireland, a considerable quantity at Bodo, and a heavy fall at Linton—none over England.

SEA

Moderate or rather rough on our western coasts generally, smooth in the southeast and east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 26TH DEC: 1897.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

FORECASTS.

NONE ISSUED

WARNINGS

At 7.10 pm yesterday to districts 6, 7, and 8 "Horse South Cone" The signals are still flying in districts 0, 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.43	38	37	SSE	6	c	4	Valencia ...	29.91	52	49	SE	7	ogg	6
Sumburgh Head ...	30.18	43	41	S	1	c	4	Scilly ...	30.11	50	48	SE	5	c	3
Stornoway ...	30.09	46	43	SW	5	o	5	Jersey ...	30.32	43	40	SE	4	bc	3
Aberdeen ...	30.23	38	34	S	2	bc	1	Hurst Castle ...	30.34	47	43	ESE	3	cm	2
Shields ...	30.32	36	34	SW	2	cf	2	Dungeness ...	30.42	42	40	ENE	2	c	2
Ardrossan ...	30.21	41	40	NNE	3	bf	2	North Foreland ...	30.41	44	41	SE	2	c	2
Malin Head ...	30.05	45	44	SSE	3	b	2	London (Westminster) ...	30.39	42	39	E	1	gf	#
Belmullet ...	29.94	48	45	SSE	4	bc	*	Yarmouth ...	30.38	40	39	SW	1	bf	2
Holyhead ...	30.23	46	41	S	3	c	2	Rochefort ...	30.23	40	37	ESE	3	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and quiet over France, Germany, and the Baltic, and in most places clear and bright, very foggy over England, fine in Wales, dull and unsettled over Ireland and the west of Scotland. snow at Bodø. Considerable snow and rain at Bodø later, some fall in Ireland (greatest 0.34 in. at Rocher Point); a heavy fall at Lisbon.

Temperature inclined to rise decidedly in the west and north of our Islands. Morning readings highest 50° in the south of Ireland, 47° at Scilly, 45° at Stornoway, 44° at Sumburgh Head. Lowest (1) -10° F. at Haparanda, +12° at Helsingfors, 13° at Karlskrona, 17° at Visby; (2) 20° at Belfast, 22° at Munich and Paris, 28° at Remscheid; (3) 23° to 27° over the inland parts of England. Rising later to much above the freezing point over England, and touching 52° to 54° in the west of Ireland, and 55° at Biarritz.

Wind very light, and mainly anticyclonic over Continental Europe, as well as over the eastern part of England; fresh to very strong from S. and SE. over the western parts of the British Islands, ESE and moderate over the western part of the English Channel. A gale from SE. fell over some of the western parts of our Islands later - no great change elsewhere.

Barometer highest 30.5 in. and more over Germany, and the east of France, and exceeding 30.2 in. all over Great Britain the North Sea and Scandinavia. Lowest below 30.0 in. off the west of Ireland. Gradients rather steep over Ireland, very slight over the Continent. Falling decidedly over Ireland later, and giving way somewhat over Northwestern Europe generally.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Sunday 26th December, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		BAROM.	TEMP.	WIND.			BAROMETER.		TEMPERATURE.			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
							At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	Weather.	At 32° Fahr. and M. S. L.	Change since Yesterday.								Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 5.1 hrs;

WEATHER CHARTS

FOR SUNDAY, 26TH DECEMBER, 1897.

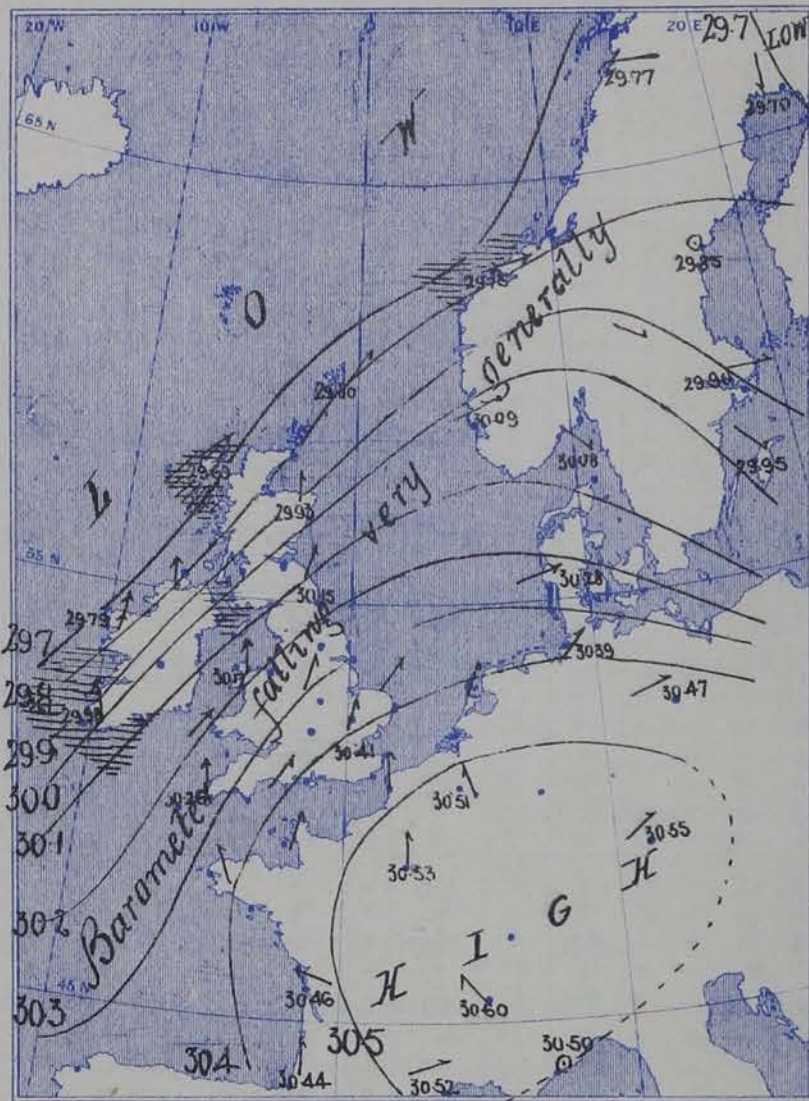
BAROMETER, WIND AND SEA.

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 ≡≡≡

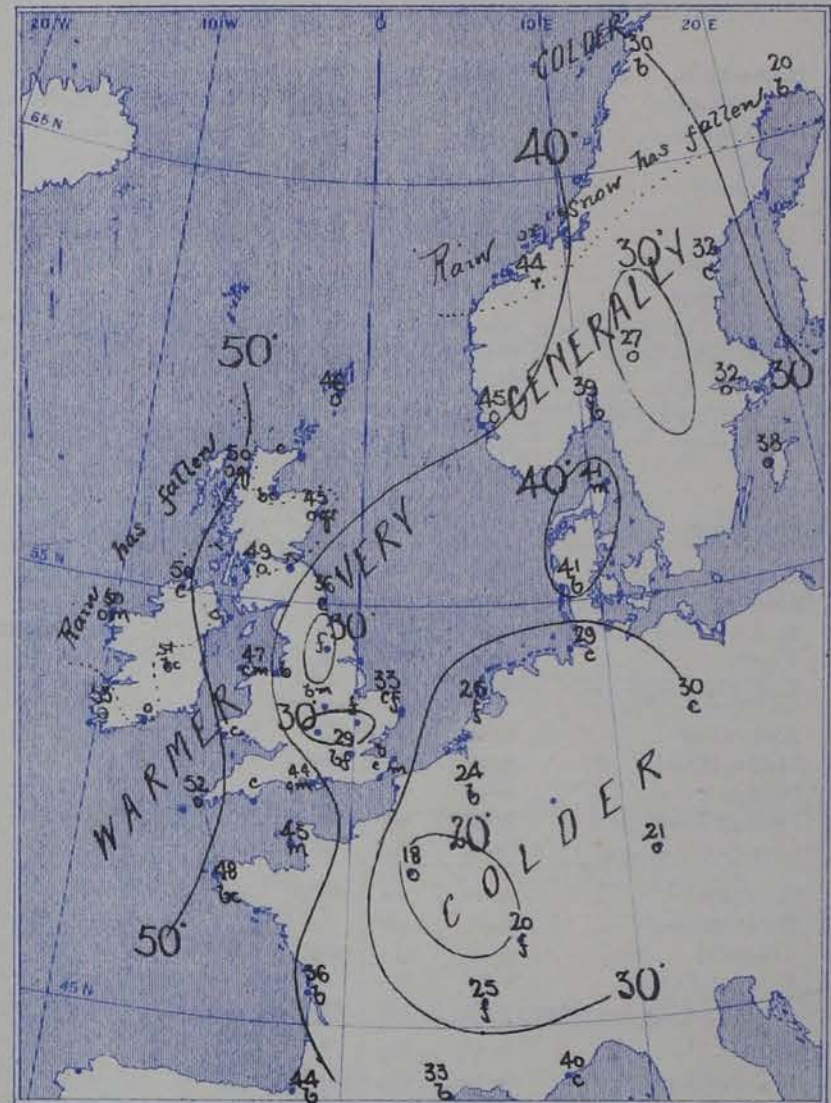


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. to 30.2 ins. in an anticyclone covering France, Germany, England, and the southern half of the North Sea.
Lowest, Below 29.7 ins. over the Hebrides and off the extreme northwestern parts both of Ireland and Norway.
Gradients slight over France and Germany, moderate for S and SW winds over our Islands, with a decided tendency to increase over Ireland and Scotland.
Barometer falling fast in the extreme west and northwest, slightly over England.

TEMPERATURE

Highest 55° to 50° in our extreme west and northwest coasts, 49° at Antwerp and Thule Point, and 47° at Holyhead.
Lowest (1) 20° at Hafnarfjörður, 17° at Karlskrona, 32° at Stockholm; (2) 19° at Paris, 20° at Berlin, 21° at Munich, 30° at Berlin; (3) 29° in London and at York, 30° at Cambridge and Oxford.
 It has been as low as 25° in London (18° on the grass), 24° at Huntly and Oxford and 25° at Cambridge during the night, but is now rising fast.

WIND

Light and anticyclonic over France, Germany and the eastern half of England; S, strong, on our western coast, (a gale at Bournemouth).
 Moderate SW, but increasing, over Scotland; W over the greater part of Norway, but E at Bodø.
 It is increasing in force on our west and northwest coasts generally.

WEATHER

Very quiet, but foggy in places over France and the greater part of England, dull at our western stations, and becoming very unsettled all over Scotland and Ireland; rainy at Christchurch.
 The fog has again been very dense over various (especially the northern) parts of London during last evening and night.
 No bright sunshine was recorded either at Hornsey, Brompton, or at London yesterday; elsewhere the amounts ranged from 1.1 hrs at Valencia to 5.1 hrs at Southampton.

SEA

High in the Channel and becoming rough again on our southwest coast, moderate at Holyhead, smooth on our southeast and east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 27th DEC: 1897.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

WARNINGS

At 7pm yesterday to districts 6, 7, 8 "Lower Cone"
 At 9.30am today to districts 0, 1, and 6 to 10 "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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes	30.20	43	42	SE	6	0	4	Valencia							
Sumburgh Head	29.96	44	43	2	0	0	3	Scilly							
Stornoway	29.75	49	49	NSW	8	0	7	Jersey	30.34	43	41	SE	3	6m	3
Aberdeen								Hurst Castle	30.33	46	43	SE	1	6m	1
Shields								Dungeness	30.38	42	40	SE	3	8	2
Ardrossan	30.12	48	48	S	4	0m	3	North Foreland	30.40	39	38	SE	2	6	2
Malin Head	30.05	49	49	SSW	3	6	3	London (Westminster)							#
Belmullet	30.12	49	47	SE	2	6	#	Yarmouth							
Holyhead								Rochefort	30.26	45	41	ESE	3	6	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning fine and quiet over Germany, Denmark, France, and the greater part of our Islands - clear in many places, dull, or very foggy in others; dull and unsettled over the northwestern and northern parts of our Islands and in Norway - equally at Stornoway, raining at Bodø. A little rain later at several of our western and northern stations, and in Norway and Lapland, fog continuing locally in various parts of England and France.

Temperature risen rapidly over Lapland and the northern parts of Sweden and Norway. Morning readings, highest 50° in the south of Ireland and at Scilly, 49° at Farnborough, Belmullet and Malin Hd., 47° at Stornoway. Lowest (1) 5° F. at Haparanda, 18° at Karlsbad, 23° at Stockholm; (2) 21° at Belfort, 23° at Munich and Paris, 25° at the Helles; (3) 28° to 29° over the central parts of England. Rising slightly during day, but falling fast over England at night.

Wind very light and anticyclonic over Central Europe, France, the southeastern half of England, the southern half of the North Sea and Denmark; S to SW, moderate to strong on our northwestern coasts; NSW, a gale in the west of Lapland, NW over the Baltic. Wind becoming light at our northwestern stations later; no decided change elsewhere.

Barometer highest 30.4 in. and more to 30.2 in. in a large anticyclone covering Central Europe, the Baltic, and the greater part of the North Sea, England, and France. Lowest, below 29.7 in. over the northwest of Lapland, below 29.3 in. over the Helles, and below 30.1 in. over Portugal. Rising at our western stations later, falling over Norway.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on *Monday, 27th December,*

1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				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.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.03	-4	Z	0	b	29.78	+0.08	12	11	-8	S	2	0	#	b	#	28	-6	-	
	Hernösand ...	29.98	31	S	4	0	29.66	-1.19	33	33	+1	S	6	S	#	0	#	41	27	0.04	
	Stockholm ...	30.01	27	Z	0	b	29.90	-0.00	37	36	+5	SW	2	0	#	b	#	37	25	-	
	Wisby ...	30.04	38	HW	4	0	30.03	+0.08	37	36	-1	W	7	0	#	0	#	38	30	-	
	Karlstad ...	29.97	28	W	2	b	29.76	-2.23	39	38	+12	W	6	0	#	b.c.	#	#	#	-	
	Bodö ...	29.61	32	E	5	0	29.20	-5.7	36	35	+6	E	4	1	2	0	#	36	25	0.12	
	Christiansund ...	29.54	44	WSW	4	c	29.31	-1.44	50	46	+6	WSW	6	0	5	c	#	50	43	0.08	
	Skudesnaes ...	29.84	44	SSW	8	r	29.65	-1.44	45	44	0	S	7	1	5	r	#	45	37	#	
	Færder (Christiania Fjord)	29.98	41	WSW	4	m	29.71	-3.0	42	41	+3	SSW	6	m	4	m	#	42	37	-	
	Skagen (The Scaw)	30.04	40	WSW	2	0	29.84	-2.4	42	42	+2	SW	4	0	1	0	#	43	39	-	
Faro ...	30.19	41	WSW	6	c	30.01	-2.4	42	41	+1	SW	6	0	#	c	#	43	41	-		
BRITISH ISLANDS.	Sumburgh Head	29.46	45	S	4	r	29.35	-1.45	48	46	+2	W	4	0	5	r	#	49	45	0.20	
	Stornoway ...	29.36	51	WSW	4	19.11	29.39	-3.0	46	44	-4	W	2	0	2	r	0.0	57	43	0.50	
	Wick ...	29.47	48	SW	4	0	29.40	-3.6	47	46	0	S	1	0	1	0	#	52	40	-	
	Nairn ...	29.47	51	W	3	bc	29.46	-1.1	46	42	-1	W	2	0	2	bc	#	54	42	0.17	
	Aberdeen ...	29.66	48	SSW	6	oggy	29.52	-1.46	46	44	-4	W	2	oggy	4	oggy	0.0	52	44	0.05	
	Leith ...	29.71	50	SSW	6	1	29.50	-5.0	48	48	0	WSW	2	1	#	r	#	54	41	0.25	
	Shields ...	29.89	45	S	4	0	29.59	-5.6	52	51	+16	SW	6	c	2	op	#	52	33	-	
	Spurn Head ...	30.07	41	SSW	5	b	29.86	-1.44	47	45	+12	SSW	6	0	5	b	#	48	35	-	
	York ...	30.03	41	S	2	0	29.79	-4.6	51	49	+12	S	3	0	#	c.0	0.0	51	29	-	
	Loughborough ...	30.16	43	SW	1	0	29.91	-4.3	50	47	+18	SSW	6	0	#	bc.c.oggy	#	50	32	-	
GERMANY & HOLLAND.	Ardrossan ...	29.68	50	S	7	p	29.49	-1.49	45	45	-4	Z	0	of	1	p	#	53	43	0.98	
	Malin Head ...	29.56	52	S	7	cp	29.48	-2.9	43	43	-7	SE	1	1	2	c.1	#	52	43	0.43	
	Belmullet ...	29.66	52	WSW	7	r	29.34	-4.5	45	44	-5	E	2	0	#	p.1	#	53	44	0.73	
	Donaghadee ...	29.72	50	SSW	8	0	29.48	-3.6	52	52	+2	SSW	8	0	6	0	#	52	49	0.41	
	Liverpool (Bidston)	30.02	49	SSW	2	0	29.77	-1.46	53	51	+18	S	4	0	4	bc.0	#	54	34	0.01	
	Holyhead ...	29.94	51	S	8	0	29.69	-4.8	52	51	+5	S	8	q.m.t	6	0	#	52	45	0.26	
	Parsonstown ...	29.77	54	S	2	0	29.48	-5.4	55	53	+4	S	2	0	#	oggy	0.3	56	50	0.32	
	Valencia ...	29.77	53	S	6	oggy	29.52	-4.6	52	51	-1	SW	5	oggy	5	mg.t	0.0	56	51	1.16	
	Roche's Point ...	29.92	52	SW	8	r	29.62	-4.8	53	53	+2	SW	8	0	5	r	#	53	50	0.50	
	Pembroke (St. Ann's Hd.)	30.00	52	SW	6	0	29.75	-4.8	52	51	+2	SW	7	1	6	0	0.0	53	48	0.26	
FRANCE & BELGIUM.	Scilly ...	30.14	54	S	6	0	29.87	-3.9	54	53	+2	SSW	7	0	6	0	0.5	55	51	0.07	
	Prawle Point ...	30.24	51	SSW	4	0	30.03	-3.3	51	49	+2	SSW	6	c	6	c.0	#	51	48	-	
	Jersey (St. Aubin's)	30.39	46	S	3	bc.m	30.20	-2.6	47	45	+2	S	6	om	5	b.bcm	#	48	44	-	
	Hurst Castle ...	30.29	49	SW	5	c	30.10	-3.0	50	48	+6	SW	6	cm	3	c	#	51	43	-	
	Dungeness ...	30.33	47	SSW	4	c	30.15	-2.7	47	46	+17	SSW	6	bc	5	c	#	49	27	-	
	North Foreland	30.31	44	S	3	bc	30.15	-2.9	44	43	+8	S	4	c	3	0.6c	#	44	35	-	
	London (Brixton) ...	30.30	42	SW	3	0	30.09	-3.2	46	44	+17	SSW	5	c	#	bm.c.oggy	0.3	47	29	0.02	
	Oxford ...	30.19	45	S	2	0	30.01	-3.8	49	47	+19	SSW	5	oggy	#	c.0	#	50	29	0.02	
	Cambridge ...	30.25	40	SSW	3	b	30.01	-3.8	48	46	+18	SSW	5	0	#	c.0	2.0	48	28	0.02	
	Yarmouth ...	30.26	40	SW	3	bc	30.04	-3.3	45	44	+12	SSW	5	cqj	4	bc	#	45	31	-	
PENIN- SULA.	Cuxhaven ...	30.31	30	SSW	4	b	30.18	-2.1	33	33	+4	SW	5	m	#	b	#	41	27	-	
	Berlin ...	30.44	30	SW	3	b	30.36	-1.1	25	24	-5	SW	3	b	#	b	#	37	23	-	
	Wiesbaden ...	#	#	#	#	#	30.53	-	25	24	-	SE	2	0	#	#	#	32	23	-	
	Munich ...	30.59	21	NE	2	b	30.54	-0.1	18	18	-3	S	1	b	#	b	#	28	16	-	
	The Helder ...	30.30	38	SW	3	0	30.12	-3.2	39	38	+14	SW	6	0	3	0	#	39	25	-	
	Brussels ...	#	#	#	#	#	30.34	-1.7	31	30	+7	SSW	5	b	#	0	#	36	24	-	
	Cape Gris Nez ...	30.31	37	SW	4	f	30.13	-2.3	39	37	+5	SW	5	m	5	f	#	41	34	-	
	Paris ...	30.56	27	SSW	2	0	30.43	-1.0	22	22	+4	SSW	2	bc	#	0	#	28	18	-	
	Brest ...	30.33	50	SSW	3	c	30.12	-2.6	53	50	+5	S	4	0	4	c	#	53	43	-	
	Lorient ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	-	
PENIN- SULA.	Rochefort ...	30.42	43	S	2	b	30.32	-1.4	36	35	0	S	4	b	#	b	#	45	34	-	
	Belfort ...	30.62	22	Z	0	f	30.56	+2.0	22	22	+2	H	1	m	#	f	#	30	15	-	
	Lyons ...	30.66	25	SW	1	f	30.62	+0.2	22	22	-3	WSW	1	f	#	f	#	26	22	-	
	Nice ...	30.59	42	Z	0	c	30.62	+1.2	37	35	-3	E	2	bc	1	c	#	48	36	-	
	Perpignan ...	30.58	39	Z	0	b	30.53	+2.1	31	31	-2	SW	1	b	#	b	#	52	30	-	
	Biarritz ...	30.44	48	E	3	b	30.29	-1.5	49	40	+5	S	4	b	2	b	#	55	36	-	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport. 0.0 hrs;

WEATHER CHARTS

FOR Monday, 27th December, 1897.

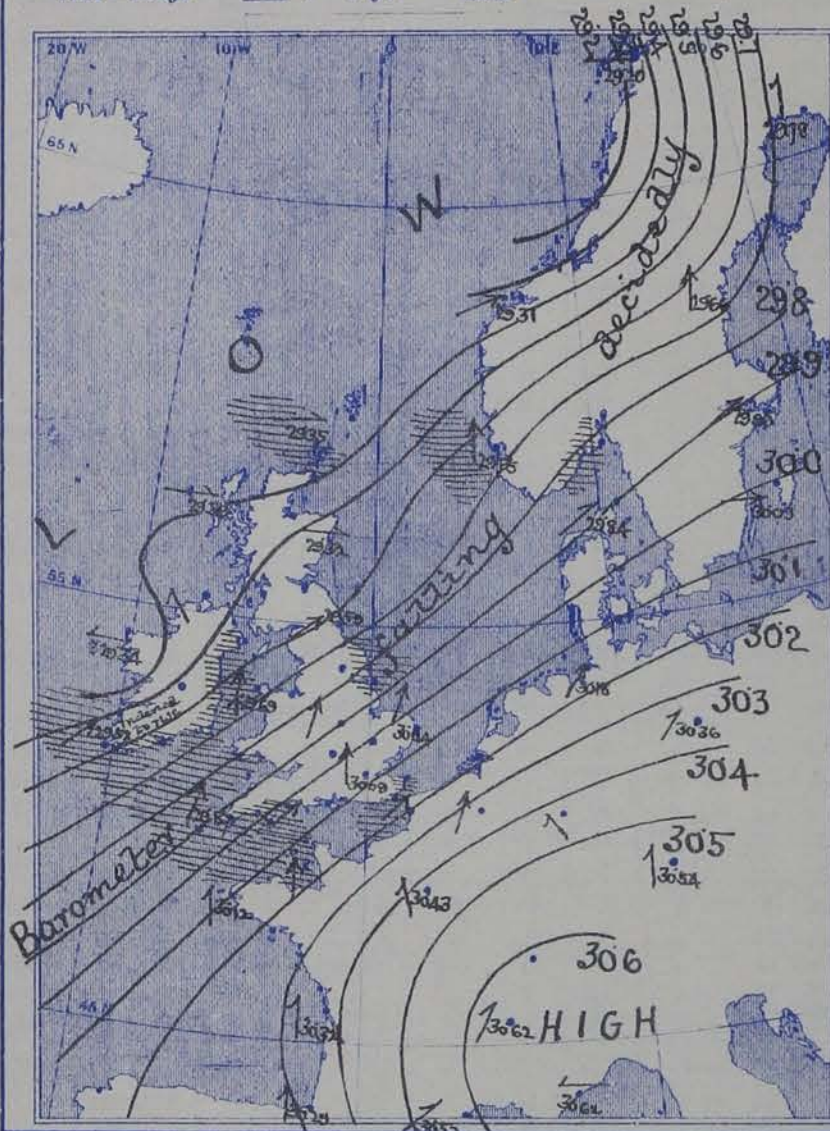
BAROMETER, WIND AND SEA.

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 ≡

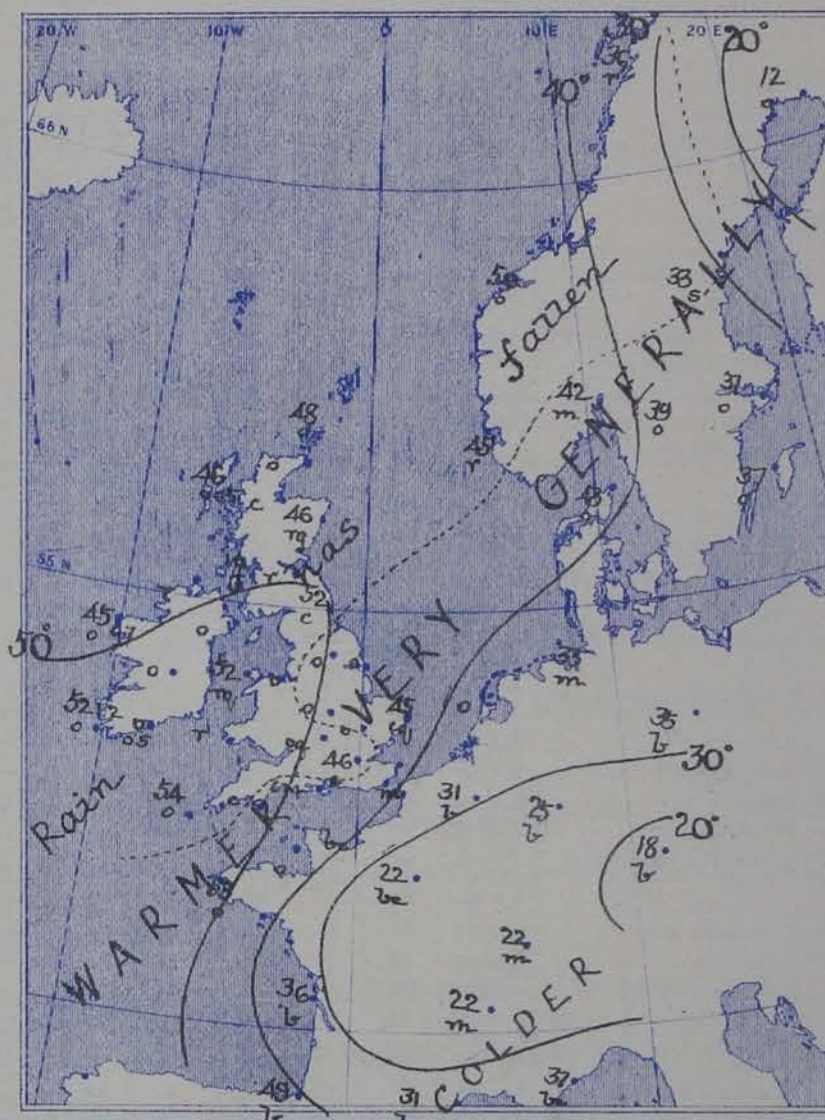


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in: and more over the south of France and exceeding 30.2 in: over the whole of France and Germany.
Lowest, Below 29.2 in: in a depression lying off the northwest of Norway, and below 29.4 in: in another off the west of Ireland.
Gradient, slight over Scotland and the north of Ireland, steep over England and the north of France and the North Sea.
Barometer falling generally - most in the west of Ireland.

TEMPERATURE

Highest, 54° at Sully, and ranging from 53° to 50° on our southern and western coasts generally.
Lowest, (1) 12° F. at Hapovanda, 33° at Hunsand, 37° at Stockholm; (2) 18° at Munich, 22° at Lyons, 25° at Wiesbaden.
 It has risen very rapidly over England during the past 24 hours — the change at York amounting to 22° .

WIND

Light and variable over Scotland and the north of Ireland; strong from the S^W over England, and a gale from S. over the Irish Sea, and from SW. in the south of Ireland. Over the west of France it is moderate from S.

WEATHER

Very changeable generally, with rain squalls at times.
Heavy rain has fallen at our western and northern stations, and smaller quantities in many parts of Scotland and England.

SEA

May rough on our southern and western coast, moderate in the southeast.


PROBABLE CHANGES IN SYSTEM NOW PREVALENT


A continuation of rough showery weather is probable over our Islands generally, with SW² gales at times.

FORECASTS

For the 24 hours ending at NOON on 28th DEC^r 1897.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
ft 0	SCOTLAND NORTH	Varying winds, strong at times; very inclement, gasty, rainy.	ft 6	SCOTLAND WEST	S ² to W ² winds; mild, changeable, considerable rain. Wind blowing a gale at times.
ft 1	SCOTLAND EAST		ft 7	ENGLAND N.W.	
ft 2	ENGLAND N.E.	ft 8	ENGLAND S.W.		
ft 3	ENGLAND EAST	ft 9	IRELAND NORTH		
4	MIDLAND COUNTIES	ft 10	IRELAND SOUTH		
ft 5	ENGLAND SOUTH		At 9.30 am yesterday to districts 0, 1, and 6 to 10 and at 7.30 pm to districts 2, 3, and 5 Hoist South Cone		
			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*.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.09	45	44	SSW	4	0	3	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.43	50	50	SW	8	1	8	Jersey ...	30.41	48	45	SSE	3	6	3
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30.36	46	44	SSW	4	0	3
Ardrossan ...								North Foreland	30.40	42	40	SSW	2	0	2
Malin Head ...	29.58	51	51	S	7	0	3	London (Westminster)							#
Belmullet ...	29.65	52	52	SSW	8	0	#	Yarmouth ...							
Holyhead ...								Rocheport ...	30.44	44	44	ESE	2	6	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 19TH TO THE 25TH DEC^R 1897.

During the greater part of this week a large anticyclone covered the North Sea, Scandinavia, Denmark, and the eastern and midland parts of Great Britain; on some occasions its western parts spread as far as to Ireland. Very dry weather was therefore prevalent over the Kingdom generally—in most parts of Great Britain there was no rain at all. Temperature became very low; night after night hard frost was experienced over England and Scotland, but the hardest of all over the eastern half of England occurred on Friday or Saturday night when the sheltered thermometer fell to 23° in London and at Oxford ^{and to} 25° at Cambridge and Loughborough, and York. On the coast the minimum was 18° in London.

At the Irish stations, however, a change to milder weather had already commenced on Friday; S³ gales were setting in, rain had begun to fall, and pressure was giving decidedly.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on *Tuesday, 28th December,* 1897.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.											
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.35	30	S	4	o	29.09	-.69	32	31	+ 20	SW	4	o	#	o	#	32	-8	0.12
	Hernösand ...	29.43	35	SE	0	f	29.27	-.39	41	39	+ 8	SW	2	o	#	f	#	?	30	0.04
	Stockholm ...	29.73	42	SE	4	o	29.66	-.24	42	40	+ 5	SW	4	o	#	o	#	43	25	-
	Wisby ...	29.91	38	SW	6	o	29.86	-.17	38	36	+ 1	SSW	8	o	#	o	#	38	34	0.04
	Karlstad ...	29.66	43	SSW	4	r	29.59	-.17	40	39	+ 1	S	6	o	#	r	#	#	#	-
	Bodö ...	29.01	44	SW	8	b	28.84	-.36	41	39	+ 5	WSW	8	bc	6	b	#	45	36	0.47
	Christiansund ...	29.80	47	WSW	5	c	29.28	-.03	43	41	- 7	WSW	6	c	5	c	#	50	43	-
	Skudenes ...	29.45	47	SSW	8	o	29.45	-.20	46	45	+ 1	SW	6	bc	5	ofp	#	47	41	#
	Færder (Christiania Fjord)	29.60	43	SSW	6	f	29.52	-.19	43	42	+ 1	SSW	6	o	4	f	#	43	41	-
	Skagen (The Scaw)	29.75	45	WSW	4	m	29.71	-.13	43	43	0	SW	6	r	2	f	#	45	43	0.20
BRITISH ISLANDS.	Fanö ...	29.91	42	SW	6	o	29.84	-.17	41	41	- 1	SW	6	r	#	o	#	43	41	-
	Sumburgh Head	29.29	46	W	1	c	29.36	+ .01	44	43	- 4	SW	1	o	3	o.c	#	49	41	0.03
	Stornoway ...	29.32	44	W	1	c	29.34	-.05	44	43	- 2	SW	3	o	3	o.c	0.0	46	35	0.04
	Wick ...	29.37	44	SW	2	o	29.39	-.01	41	40	- 6	SW	3	o	2	o	#	47	39	0.05
	Nairn ...	29.36	41	HW	1	r	29.43	-.03	37	35	- 9	W	1	c	1	r	#	46	32	0.10
	Aberdeen ...	29.35	43	WNW	2	c	29.45	-.07	38	37	- 8	SW	2	bcw	2	ofp.c.r	0.0	47	34	0.15
	Leith ...	29.38	51	SSW	3	o	29.51	+ .01	43	41	- 5	SW	2	o	#	oq	#	50	42	0.08
	Shields ...	29.56	52	S	3	o	29.64	+ .05	45	42	- 7	SSW	2	bc	2	c.p	#	55	42	0.01
	Spurn Head ...	29.71	48	SSW	6	o	29.76	- .10	44	43	- 3	SSW	5	e	4	o	#	50	43	-
	York ...	29.66	52	S	3	o	29.73	-.06	42	40	- 9	S	1	b	#	o.d	0.0	53	40	0.02
GERMANY & HOLLAND.	Loughborough ...	29.77	50	SSW	5	o	29.82	-.09	43	42	- 7	SSW	2	cw	#	oq.ope	#	53	43	0.04
	Ardrossan ...	29.42	48	SSW	4	ofp	29.44	-.05	46	46	+ 1	S	5	p	4	opf	#	44	43	0.15
	Malin Head ...	29.42	43	S	1	r	29.34	-.14	42	41	- 1	SSW	5	bc	3	r	#	44	41	0.16
	Belmullet ...	29.44	45	SW	2	r	29.44	?	43	41	- 2	W	2	o	#	o.r	#	46	41	0.29
	Donaghadee ...	29.48	45	SSW	5	bc	29.49	+ .01	45	45	- 7	SW	6	c	4	bc	#	54	40	0.10
	Liverpool (Bidston)	29.65	53	SSW	3	o	29.70	-.07	45	42	- 8	SSW	4	c	3	o	#	56	44	-
	Holyhead ...	29.60	51	SW	7	ogm	29.61	-.08	45	44	- 7	SW	6	gmr	5	2q.gm	#	52	44	0.32
	Parsonstown ...	29.46	47	S	2	b	29.56	+ .08	41	39	- 14	S	1	o	#	oq.r	0.4	56	41	-
	Valencia ...	29.54	48	WSW	8	ogq	29.63	+ .11	45	43	- 7	SW	5	op	6	og.qg	0.0	52	43	0.24
	Roche's Point ...	29.51	48	W	6	bc	29.67	+ .05	45	43	- 8	W	4	b	4	bc.fg	#	53	44	0.28
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.91	50	WSW	6	o	29.69	-.06	47	45	- 5	WSW	5	ogp	5	o	0.0	52	45	0.06
	Scilly ...	29.80	52	SW	4	c	29.81	-.06	48	47	- 6	SW	5	r	5	opm.c	0.0	54	46	0.13
	Prawle Point ...	29.86	51	SSW	6	r	29.88	-.15	50	47	- 1	SW	6	bcq.p	6	q.p	#	52	47	0.11
	Jersey (St. Aubin's)	30.04	47	SE	6	cq	30.03	-.17	49	49	+ 2	SSW	5	og	5	o.q.r	#	50	45	0.21
	Hurst Castle ...	29.93	48	SSW	6	p	29.93	-.17	49	47	- 1	SW	4	c	3	om.p	#	51	47	0.21
	Dungeness ...	30.01	47	SSW	6	bc	29.97	-.18	48	47	+ 1	SSW	6	og	6	bc	#	49	45	0.03
	North Foreland	30.03	44	S	6	b	29.99	-.16	48	47	+ 4	S	3	o	2	b.bq	#	48	43	0.02
	London (Brixton) ...	29.94	48	SSW	6	ogp	29.93	-.16	48	47	+ 2	SW	2	c.p	#	bc.ogap	0.2	51	46	0.05
	Oxford ...	29.83	48	SSW	4	r	29.89	-.12	44	43	- 5	S	2	o	#	pq	#	50	44	0.03
	Cambridge ...	29.88	48	SSW	5	o	29.90	-.11	43	43	- 5	SSW	2	o	#	og	0.0	50	42	0.02
PENIN- SULA.	Yarmouth ...	29.89	44	SSW	4	c	29.89	-.15	46	45	+ 1	SSW	3	cq.m	4	c	#	47	42	0.04
	Cuxhaven ...	30.11	36	SW	6	b	30.00	-.18	37	37	+ 4	SW	6	b	#	b	#	37	33	-
	Berlin ...	30.29	30	S	3	b	30.14	-.22	31	30	+ 6	SSW	3	b	#	b	#	34	25	-
	Wiesbaden ...	#	#	#	#	#	30.36	-.17	22	21	- 3	SE	2	o	#	#	#	27	19	-
	Munich ...	30.44	26	SE	4	b	30.47	-.07	20	19	+ 2	SW	2	b	#	b	#	36	18	-
	The Helder ...	30.01	35	SSW	4	b	29.95	-.17	42	41	+ 3	SW	5	o	4	b	#	43	34	-
	Brussels ...	#	#	#	#	#	30.15	-.19	39	37	+ 8	S	5	r	#	b	#	40	30	-
	Cape Gris Nez ...	30.02	39	SW	5	o	29.97	-.16	44	43	+ 5	SW	4	r	5	o	#	45	36	0.08
	Paris ...	30.26	36	SEE	3	b	30.21	-.22	33	32	+ 11	SEE	2	b	#	b	#	39	22	-
	Brest ...	29.97	52	S	5	r	30.01	-.11	51	50	- 2	SW	4	c	4	r	#	52	41	0.04
GERMANY & HOLLAND.	Lorient ...	30.08	48	S	2	r	30.08	?	50	50	?	SW	4	c	5	r	#	55	46	0.20
	Rochefort ...	30.23	44	SEE	3	b	30.16	-.16	44	42	+ 8	SSW	4	c	#	b	#	46	34	-
	Belfort ...	30.42	36	W	2	m	30.40	-.16	31	28	+ 9	Z	0	b	#	m	#	45	22	-
	Lyons ...	30.45	43	S	3	b	30.38	-.24	45	42	+ 23	S	4	b.v	#	b	#	46	22	-
	Nice ...	30.60	40	Z	0	b	30.52	-.10	41	36	+ 4	E	2	o	1	b	#	50	36	-
	Perpignan ...	30.43	47	SEE	2	b	30.35	-.18	45	41	+ 14	S	2	b	#	b	#	54	31	-
	Biarritz ...	30.23	51	S	4	b	30.19	-.10	52	45	+ 3	SSW	4	o	4	b	#	57	46	-
	Corunna ...	#	#	#	#	#	30.43	0.0	47	45	+ 4	WSE	3	o	#	bc	#	52	48	-
	Lisbon ...	30.36	44	WSE	3	bc	30.43	0.0	47	45	+ 4	WSE	3	o	#	bc	#	52	48	-
	Azores (P. Delgada)	30.49	54	W	3	b	30.45	?	57	52	?	SW	4	o	3	b	#	63	52	-

For Explanation of Columns, see bottom of last page.

* Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southampton. 0.0 hrs.

WEATHER CHARTS

FOR Tuesday 28th December, 1897.

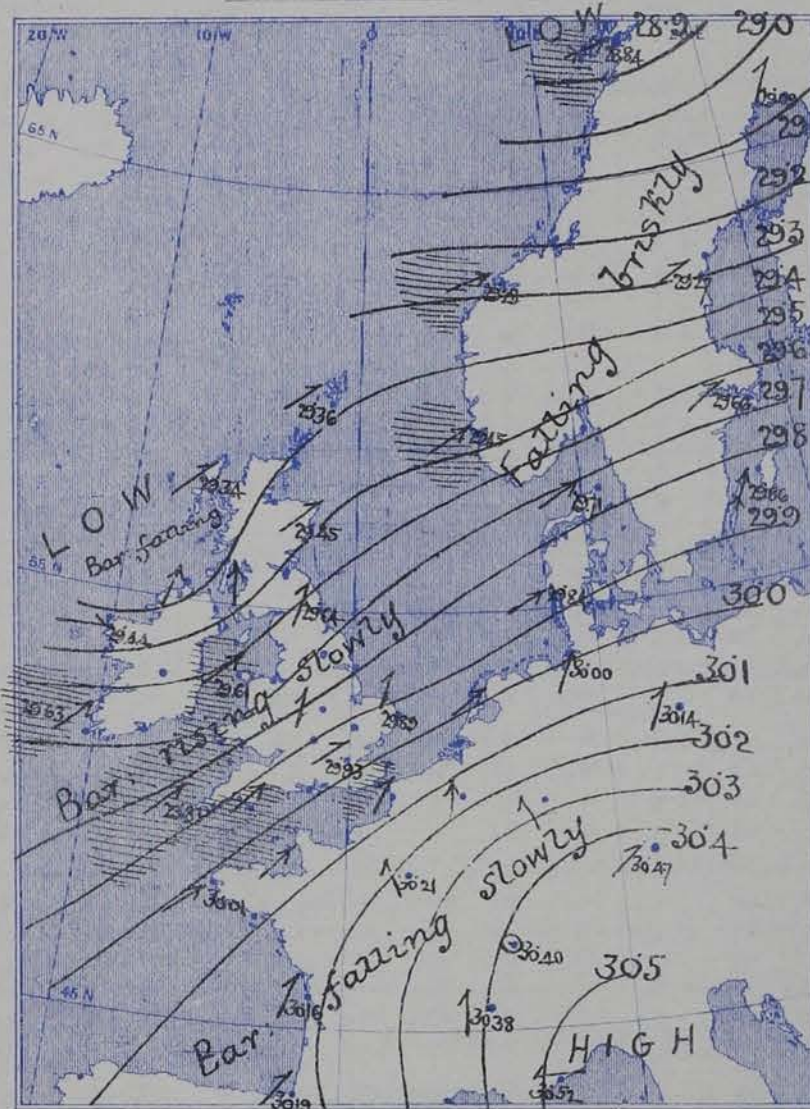
BAROMETER, WIND AND SEA.

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 ≡≡≡

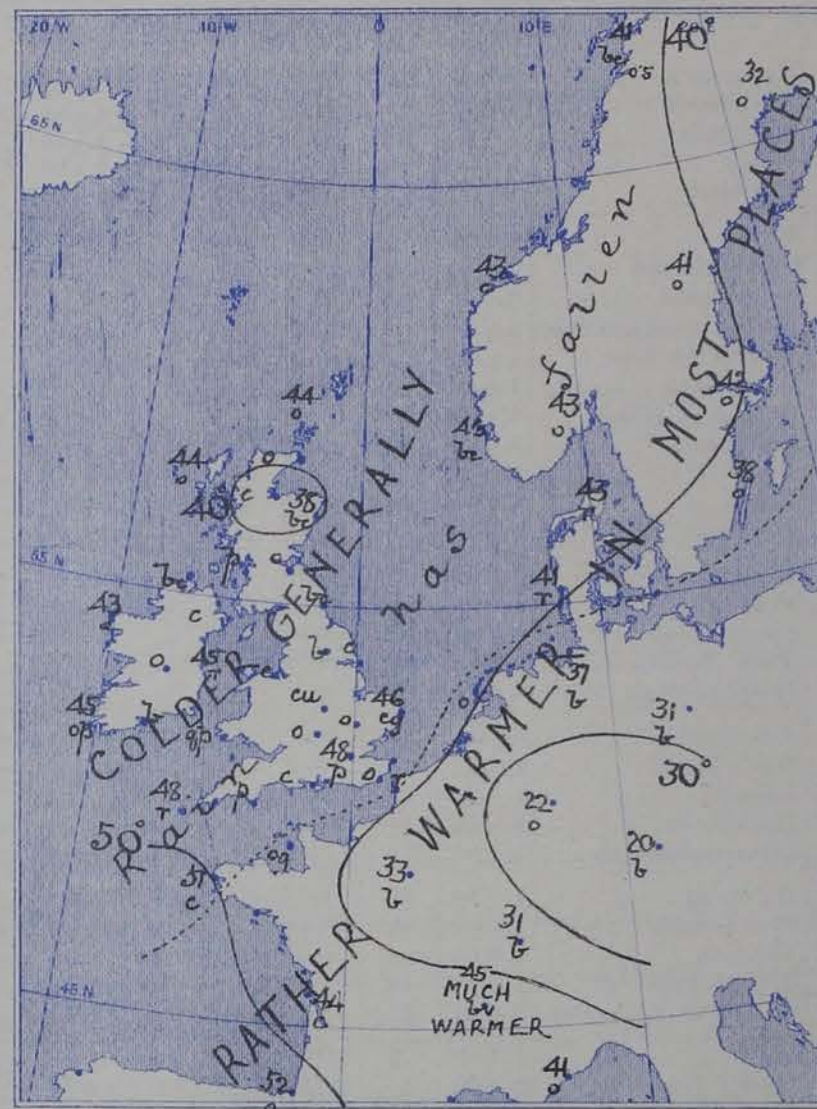


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in: and upwards in the southeast of France.
 Lowest, 28.9 in: and less, in a depression off the northwest of Norway.
 Gradients rather steep over northwestern Europe generally, but slight over the north of our Islands and the west of Norway.
 Barometer inclined to rise in all but the northernmost parts of our Islands, falling at most of the Continental stations.

TEMPERATURE

Highest, 52° at Biarritz, 51° at Brest, 50° at Pauillac, 49° at Jersey, and Hurst Castle, and 48° at Tilly, Dungeness, London, and the North Foreland.
 Lowest, (1) 20° at Munich, 22° at Wiesbaden, and 31° at Berlin and Belfort; (2) 22° at Hoboken; (3) 37° at Havre and 38° at Aberdeen.
 During yesterday the thermometer rose to 50° and upwards in many parts of the United Kingdom, to 55° at Shields, and to 56° at Leith, Liverpool and Penzance.

WIND

S³ or SW¹ over Western Europe generally; strong in force on the more exposed parts of our own western and southern coasts, as well as at the Scandinavian and Danish stations, with a gale at Bodø and Narvik.
 Light from the End or SEnd in some parts of Germany and Central France, and from the NEnd at Lubeck.

WEATHER

Fine in the eastern parts of Great Britain, as well as in Germany, Central France, and the west of Norway.
 Cloudy or dull elsewhere, with rain or passing showers at many of our own western and southern stations, as well as in Denmark and the Netherlands.
 Since yesterday morning rain has fallen in nearly all parts of Northwestern Europe, but the amount has been mostly slight.

SEA

Rough or rather so on most parts of our western and southern coasts and also on the west coast of Norway, moderate or slight elsewhere.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure remains favourable for the advance of cyclonic systems from the Atlantic, and changeable, showery weather is therefore likely to continue for a time, with increasing winds on our western and southern coasts.

FORECASTS

For the 24 hours ending at NOON on 29th DEC^r. 1897.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	SW ² to S ² winds, freshening; changeable. Some rain.
1	SCOTLAND EAST		
ft 2	ENGLAND N.E.		
ft 3	ENGLAND EAST		
4	MIDLAND COUNTIES		
		Same as N:5	
ft 5	ENGLAND SOUTH	{	S ² and SW ² winds, increasing in force; some showers, with bright intervals.
DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	{	SW ² to S ² winds, increasing in force; squally, rain at times.
7	ENGLAND N.W.		
8	ENGLAND S.W.		
9	IRELAND NORTH		
10	IRELAND SOUTH		
WARNINGS		The SOUTH CONE is still flying in districts 2, 3, and 5.	

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.58	46	46	SSW	8	r	6	Valencia ...	29.50	52	49	SSW	4	o g	5
Sumburgh Head ...	29.34	47	45	W	2	o	4	Scilly ...	29.79	54	53	SSW	6	o p m	6
Stornoway ...	29.35	46	45	W	2	o	2	Jersey ...	30.10	48	46	SSW	6	o	5
Aberdeen ...	29.39	43	42	WNW	2	o g r	4	Hurst Castle ...	30.00	50	47	SSW	6	o m	3
Shields ...	29.56	54	52	SSW	5	c	2	Dungeness ...	30.08	46	45	SSW	6	b c	5
Ardrossan ...	29.37	49	49	WNW	4	o	5	North Foreland ...	30.07	45	43	S	5	b	4
Malin Head ...	29.41	43	43	N	1	r	2	London (Westminster) ...	29.98	49	46	S	5	o	#
Belmullet ...	29.49	45	45	S	2	o	#	Yarmouth ...	29.95	47	45	SSW	5	c	4
Holyhead ...	29.60	52	52	SSW	8	am q	7	Rochefort ...	30.28	44	41	S	5	b	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of northwestern, northern, and eastern Europe, with rain at several of our own western and northern stations, as well as in the west of Norway, and snow at Helsingfors and Stockholm. Fine over France and southern Europe generally, as well as in some parts of Finland. Rain falling later in most of the northwestern and northern countries, but amount not large.

Temperature fallen over Central and Southern Europe, but risen elsewhere—rapidly over England. Morning readings highest (1) 55° at Larnarstown, 54° at Scilly, and 53° at Liverpool and Rockham (above 50° in many parts of England and Ireland); (2) 53° at Malta and 51° at Algiers, but below 50° at the Mediterranean stations generally. Lowest (1) -4° F. at Kuopio, 0° zero at Archangel, and +5° at Uleaborg; (2) 5° at Hermannstadt; considerably below the freezing point over South Germany and Central France. Rising during day to 50° and upwards in many parts of the United Kingdom, and reaching 56° at Leith, Liverpool, and Larnarstown. Exceeding 50° also in the south of France and touching 57° at Biarritz.

Wind strong from S. or SW over Northwestern Europe as a whole, with gales on our own western coasts, but light from the E^W in the northwest of Ireland, and from the W^W in the north and east of Scotland. Light from the N^W or NW^W in Russia; variable in Italy, E in the extreme south of France and NE at Lissabon. Subsequently moderating in force on our western coasts, but increasing to a gale from the S^W or SW^W at some of the English Channel stations, as well as in the south of Norway.

Barometer highest 30.6 in; and upwards in an anticyclone lying over Italy, Switzerland, and the neighbouring parts of France and Austria. Lowest 29.2 in; and less, in a depression off the northwest of Norway; 29.4 in; and less, in a secondary system off the west of Ireland; 29.6 in; and less, in a well marked disturbance over Central Russia. Depression off west of Ireland subsequently moving northwards and barometer rising on several parts of our western coasts.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday 29th December, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	TEMP.			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.)	Max.		Min.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	29.16	34	W	4	b	29.41	+ .32	24	23	- 8	Z	0	b	#	b	#	36	24	-	
	Hernösand ...	29.58	32	Z	0	b	29.46	+ .19	35	34	- 6	S	2	o	#	b	#	43	30	-	
	Stockholm ...	29.81	42	SW	2	o	29.72	+ .06	39	37	- 3	SW	4	o	#	o	#	43	39	-	
	Wisby ...	30.17	39	SW	6	o	29.89	+ .03	39	38	+ 1	SW	8	o	#	o	#	39	36	-	
	Karlstad ...	29.74	41	SW	2	r	29.59	.00	39	38	- 1	SSW	6	c	#	r	#	#	#	0.08	
	Bodö ...	29.10	38	WSW	6	c	29.34	+ .50	37	35	- 4	E	2	r	1	c	#	41	36	0.47	
	Christiansund ...	29.43	41	WSW	3	c	29.19	- .09	38	36	- 5	Z	0	b	4	c	#	43	37	-	
	Skudesnaes ...	29.53	44	SSW	6	r	29.39	- .06	44	44	- 2	WSW	8	b	6	o, r, b	#	46	37	#	
	Færder (Christiania Fjord)	29.67	42	SSW	5	m	29.51	- .01	42	39	- 1	SW	7	o	5	m	#	43	41	0.08	
	Skagen (The Scaw)	29.77	43	SW	4	b	29.67	- .04	41	40	- 2	SW	4	b	1	b	#	45	41	0.04	
Fanö ...	29.86	41	SW	6	o	29.84	.00	42	42	+ 1	SW	6	o	#	o	#	43	41	-		
BRITISH ISLANDS.	Sumburgh Head	29.23	43	S	1	c	29.10	- .26	40	39	- 4	SSW	2	c	4	o, c	#	45	40	0.07	
	Stornoway ...	29.16	40	WSW	3	b	29.01	- .33	44	38	o	W	3	o	3	r, b	0.0	44	35	0.40	
	Wick ...	29.22	41	S	3	o	29.08	- .31	40	39	- 1	S	3	b	2	o	#	45	36	-	
	Nairn ...	29.26	36	W	1	b	29.08	- .35	40	37	+ 3	W	1	b	1	b	#	46	32	0.10	
	Aberdeen ...	29.35	41	SSW	3	b	29.15	- .30	42	41	+ 4	S	6	prgq	4	r, b, prg, b	0.3	43	38	0.09	
	Leith ...	29.41	40	SW	3	c	29.11	- .40	40	40	- 3	SSW	3	r	#	c, r, b	#	48	37	0.19	
	Shields ...	29.52	42	SW	5	p	29.23	- .41	44	44	- 1	S	5	op	2	c, r	#	47	37	0.13	
	Spurn Head ...	29.69	43	SSW	4	b	29.42	- .34	48	47	+ 4	S	6	o	5	b, r	#	48	38	0.04	
	York ...	29.63	43	S	2	b	29.36	- .37	49	47	+ 7	S	4	o	#	b	0.8	49	37	0.05	
	Loughborough ...	29.74	44	SW	3	b	29.51	- .31	50	49	+ 7	SSW	6	og	#	c, b, opq	#	50	39	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.39	44	SW	5	op	29.27	- .47	49	49	+ 3	S	5	rm	4	op	#	49	41	0.52	
	Malin Head ...	29.35	44	SW	6	b, p	29.24	- .50	48	48	+ 6	SSW	3	orm	2	b, p	#	48	39	0.30	
	Belmullet ...	29.49	45	W	6	b, p, r	29.33	- .51	51	50	+ 8	SW	5	o	#	opq	#	51	41	0.40	
	Donaghadee ...	29.49	40	SW	6	b, p, r	29.34	- .45	51	51	+ 6	SW	7	o	5	op, b	#	51	38	0.29	
	Liverpool (Bidston)	29.66	43	SW	4	b	29.31	- .39	53	49	+ 8	SSW	4	o	4	r, b	#	53	40	0.10	
	Holyhead ...	29.66	45	SW	7	b, p, r, q	29.22	- .39	52	51	+ 7	SSW	8	ogm	6	op, b, p, r, q	#	52	42	0.43	
	Parsonstown ...	29.63	40	SW	1	b	29.49	- .47	52	51	+ 11	SW	1	r	#	b, p, opq	2.9	54	37	0.53	
	Valencia ...	29.65	46	SSW	2	c	29.12	- .51	54	52	+ 9	SSW	6	rm	6	b, c	3.5	54	43	0.69	
	Roche's Point ...	29.73	45	W	3	b	29.23	- .44	53	53	+ 8	SW	8	r	5	p, b, r	#	53	43	0.70	
	Pembroke (St. Ann's Hd.)	29.76	47	WNW	4	b	29.31	- .38	52	51	+ 5	SW	8	r	6	b	2.6	52	46	0.68	
FRANCE & BELGIUM.	Scilly ...	29.86	49	WSW	4	b	29.52	- .29	52	52	+ 4	SSW	8	r	6	b, b	5.5	53	47	0.26	
	Prawle Point ...	29.91	49	SW	4	b	29.65	- .23	52	51	+ 2	SSW	7	p, r	6	b, p, r	#	53	46	0.20	
	Jersey (St. Aubin's)	30.01	49	WSW	4	b	29.89	- .14	52	51	+ 3	S	7	rm	5	op, b	#	53	47	0.13	
	Hurst Castle ...	29.89	48	WSW	4	b	29.74	- .19	52	50	+ 3	SSW	7	op	4	r, b	#	52	44	0.29	
	Dungeness ...	29.91	49	SSW	7	r, q	29.83	- .14	50	49	+ 2	SSW	8	c	6	o, r, q	#	50	47	0.02	
	North Foreland	29.92	48	S	5	r, q	29.84	- .15	49	47	+ 1	S	5	og	4	o, r, q	#	49	45	0.25	
	London (Brixton) ...	29.88	44	W	2	b	29.74	- .19	50	48	+ 2	SSW	7	og, p, r	#	p, b, r, q, p, r	0.3	51	43	0.11	
	Oxford ...	29.85	43	SW	3	b	29.62	- .27	50	48	+ 6	S	5	r, q	#	c, b	#	50	42	0.06	
	Cambridge ...	29.83	43	SSW	3	b	29.64	- .26	50	48	+ 7	SSW	6	og	#	b	0.7	51	40	-	
	Yarmouth ...	29.81	47	SW	5	c	29.70	- .19	47	45	+ 1	SSW	6	ogq	4	c, c, q	#	48	40	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.00	39	SW	4	o	29.99	- .01	42	42	+ 5	SW	4	o	#	o	#	43	37	-	
	Berlin ...	30.22	35	S	2	b	30.23	+ .09	35	33	+ 4	SSW	2	b	#	b	#	39	31	-	
	Wiesbaden ...	#	#	#	#	#	30.30	- .06	34	32	+ 12	SE	2	o	#	#	#	34	22	-	
	Munich ...	30.39	26	SE	3	b	30.44	- .03	23	22	+ 3	SSW	2	b	#	b	#	41	19	-	
	The Helder ...	29.90	41	SW	6	o	29.87	- .08	42	41	o	SSW	6	o	3	o	#	43	41	0.04	
	Brussels ...	#	#	#	#	#	30.07	- .08	41	40	+ 2	S	6	r	#	o	#	46	38	0.04	
	Cape Gris Nez ...	29.92	44	SW	5	o	29.85	- .12	46	44	+ 2	SW	6	o	6	o	#	46	41	0.32	
	Paris ...	30.19	43	SSW	3	o	30.17	- .04	43	41	+ 10	SSW	3	o	#	o	#	46	33	0.04	
	Brest ...	29.62	52	W	3	b	29.82	- .19	54	53	+ 3	SSW	6	o	6	b	#	54	45	0.16	
	Lorient ...																				
FRANCE & BELGIUM.	Rochefort ...	30.17	48	S	3	b	30.18	+ .02	46	46	+ 2	SSW	4	c	#	b	#	48	43	0.39	
	Belfort ...	30.32	42	SW	1	b	30.38	- .02	37	36	+ 6	W	2	b	#	b	#	47	31	-	
	Lyons ...	30.39	45	S	1	c	30.43	+ .05	35	35	- 10	SE	1	b	#	c	#	50	34	-	
	Nice ...	30.44	44	Z	0	o	30.43	- .09	39	37	- 2	E	1	b	2	o	#	48	37	-	
	Pépignan ...	30.36	45	Z	0	b	30.43	+ .08	40	39	- 5	W	2	o	#	b	#	57	36	-	
	Biarritz ...	30.25	51	SSW	3	c	30.25	+ .06	49	41	- 3	SE	4	b	3		#	57	45	-	
PENIN- SULA.	Corunna ...																#				
	Lisbon ...	30.44	52	ENE	1	c	30.42	- .01	50	50	+ 3	NNW	1	r	#	c	#	54	50	0.08	
	Azores (P. Delgada)																#				

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport... 2.2 hrs;

WEATHER CHARTS

FOR *Wednesday, 29th December, 1897.*

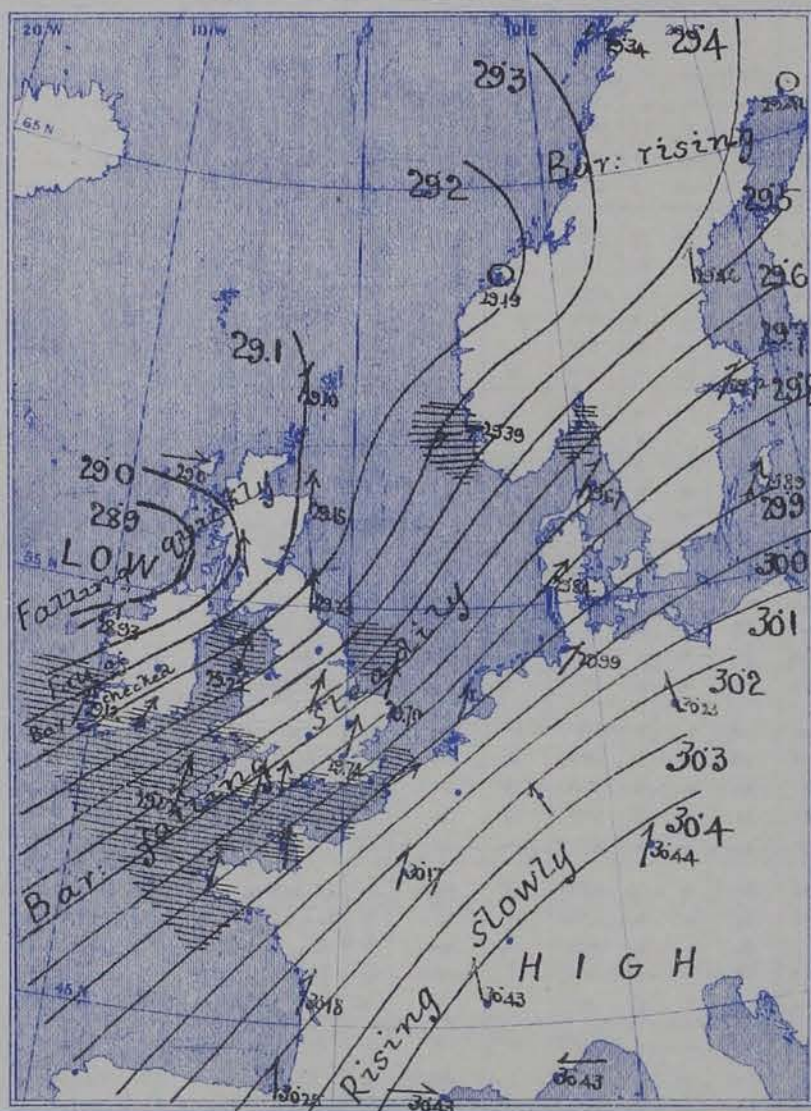
BAROMETER, WIND AND SEA.

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 ≡

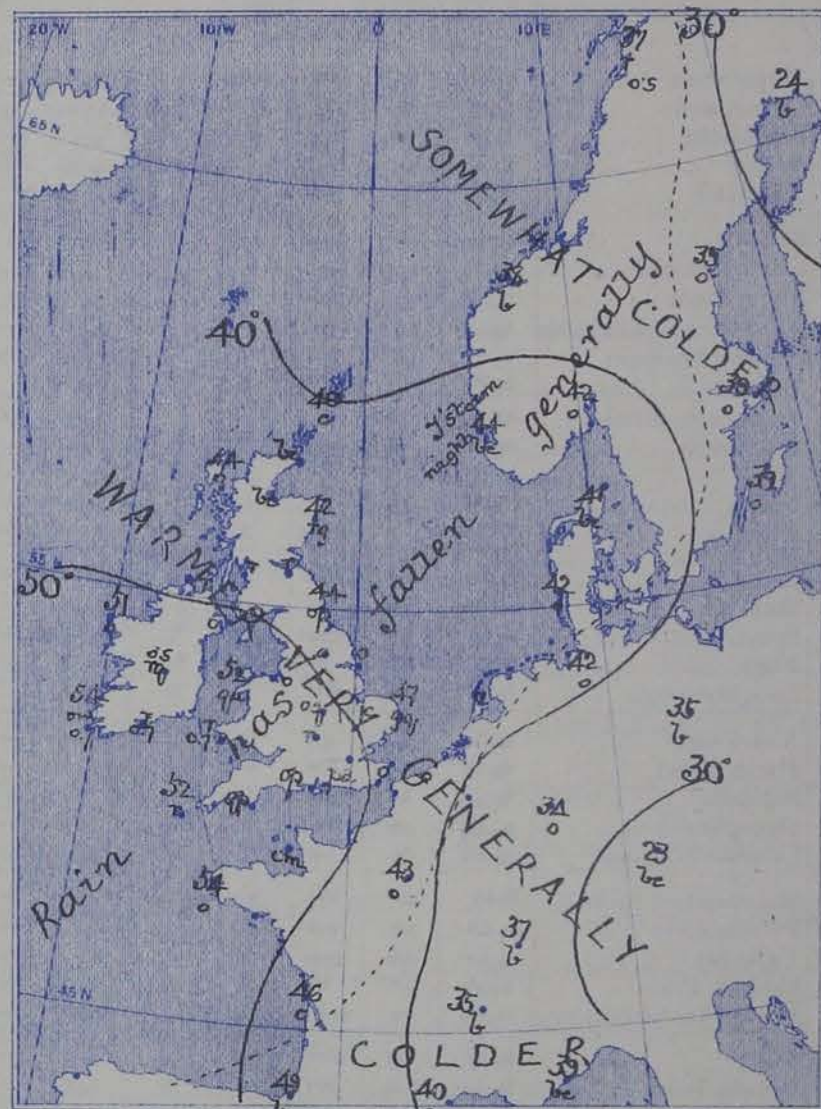


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and upwards in Portugal and also over S. Germany in the S. coast of France.
Lowest 28.9 ins. and less in a depression with its centre off the NW. of Ireland.
Gradients steep over NW^W Europe as a whole, but slight over Scotland & the W. of Norway.
Barometer falling in most places, - quickly over the NW^W parts of our islands.

TEMPERATURE

Highest 54° at Valencia (Ireland) and Brest, 53° at Liverpool and Rocher's Pt., and 52° at several of our own W^W and S^W stations.
Lowest (1) 23° at Munich, and 34° at Wiesbaden; (2) 24° at Haparanda and 35° at Hermsund.
Lowest in our islands, 40° at Inverlurg, Wick, Nairn and Leth.
A considerable rise has taken place over the W^W and central parts of the United Kingdom.

WIND

S^W or SW^W over western Europe generally, and strong to a gale in force on most parts of our own western and southern coasts, as well as in the south of Scandinavia.
Light from the SE^W at some of the German and central French stations.

WEATHER

Cloudy and unsettled over the greater part of our area, with rain at many of our own stations, and also at Bodo.
Fine in the W. of Norway, and also over central Germany and the E. and S. of France.
Since yesterday morning rain has fallen over NW^W Europe generally, the largest amounts being 0.7 in. at Valencia, Rocher's Pt. and Penelope, and 0.5 in. at Ardrossan and Parsonstown.
A solar halo was seen yesterday at Jersey, and a lunar halo at Wick and Belfast. Thunder and lightning occurred at Skudenes in the night.
Rough on our W^W and S^W coasts, and also off the S. of Norway.

SEA

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our NW coasts is likely to travel away in a N^W or NE^W direction, but with the present conditions other disturbances are likely to advance sharply from the W^W.

FORECASTS

For the 24 hours ending at NOON on 30TH DEC. 1897.

DISTRICTS.

- 0 SCOTLAND NORTH
- 1 SCOTLAND EAST
- 1 ENGLAND N.E.
- 1 ENGLAND EAST
- 4 MIDLAND COUNTIES
- 1 ENGLAND SOUTH

FORECASTS.

S^W winds freshening considerably, fair to unsettled and some rain.

S^W winds, strong to a gale at first, but moderating later, squally, showery.

S^W and SW^W gales and strong winds, squally, showery.

DISTRICTS.

- 16 SCOTLAND WEST
- 17 ENGLAND N.W.
- 18 ENGLAND S.W.
- 19 IRELAND NORTH
- 10 IRELAND SOUTH

WARNINGS

FORECASTS.

SW^W to S^W gales, and strong winds, squally, rain at times.

At 7.30 pm yesterday to districts 5 to 10, and at 10.20 am today to districts 1, 2 and 3. 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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.		THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes	29.57	46	44	SW	6	o	5	Valencia	29.67		48	43	SW	6	bag	6
Sumburgh Head	29.31	44	43	S	1	o	3	Scilly	29.84		52	47	WSW	5	bu	5
Stornoway	29.18	43	42	WSW	3	o	4	Jersey	29.98		57	49	S	4	ops	4
Aberdeen	29.35	42	41	S	4	bag	3	Hurst Castle	29.87		46	45	WSW	5	rm	3
Shields	29.54	47	45	SW	4	c	2	Dungeness	29.92		48	47	SW	5	o	4
Ardrossan	29.60	46	45	SSW	5	o	4	North Foreland	29.92		48	47	S	4	o	3
Malin Head	29.32	43	42	SSW	4	bu	3	London (Westminster)	29.85		51	48	SW	4	op	#
Belmullet	29.45	43	40	W	5	upg	#	Yarmouth	29.85		48	46	SSW	4	c	4
Holyhead	29.60	45	45	SW	6	c	5	Rocheport	30.16		44	43	SSW	4	o	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Continental Information not received.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on

Thursday 30th December, 1897

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.									TEMP.		
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
	Hernösand ...	29.30	33	SW	2	0	29.28	- .13	32	31	+ 8	2	0	0	0	0	0	36	21	0.08
	Stockholm ...	29.43	39	SW	4	bc	29.32	- .14	37	36	+ 2	SW	4	f	0	bc	0	39	28	0.28
	Wishby ...	29.68	41	SW	4	0	29.52	- .20	46	43	+ 7	SSW	4	0	0	0	0	46	37	-
	Karlstad ...	29.88	40	SW	8	bc	29.75	- .14	41	40	+ 2	SW	8	0	0	bc	0	41	36	-
		29.46	39	WNW	6	r	29.48	- .11	43	42	+ 4	S	4	0	0	r	0	0	0	0.47
	Bodö ...	29.14	34	E	2	0	29.11	- .23	40	38	+ 3	SW	6	c	4	0	0	40	30	0.24
	Christiansund ...	29.13	44	ESE	1	b	29.14	- .05	37	36	- 1	2	0	0	3	0	0	45	37	-
	Skudesnaes ...	29.02	47	SE	10	r	29.17	- .22	46	46	+ 2	SSW	9	rf	8	r	0	47	37	0
	Færder (Christiania Fjord)	29.29	43	S	8	r	29.37	- .14	44	44	+ 2	S	8	0	5	r	0	44	32	0.35
BRITISH ISLANDS.	Skagen (The Scaw)	29.40	46	SW	7	r	29.50	- .17	44	43	+ 3	SW	6	0	2	r	0	48	41	0.32
	Fanö ...	29.62	46	SW	6	r	29.57	- .27	42	41	0	SSW	6	c	0	r	0	46	41	0.20
	Sumburgh Head	28.84	43	SE	2	0	28.64	- .46	47	47	+ 7	SE	4	r	5	c, o	0	47	40	0.39
	Stornoway ...	28.80	41	SE	2	r	28.41	- .60	45	43	+ 1	SW	4	0	4	o, r	0.0	45	36	0.45
	Wick ...	28.81	42	SW	2	c	28.53	- .55	49	48	+ 9	S	6	ow	6	c	0	49	39	0.20
	Nairn ...	28.87	38	2	0	c	28.52	- .56	48	44	+ 8	WSW	3	bc	1	0	0	52	33	0.35
	Aberdeen ...	28.93	44	SW	3	b	28.68	- .47	47	44	+ 5	S	7	ogw	6	og, b, r	0.0	49	41	0.18
	Leith ...	29.04	49	SW	2	0	28.68	- .43	48	42	+ 8	SSW	6	c	0	0	0	54	39	0.28
	Shields ...	29.14	52	SSW	3	cp	28.86	- .37	49	47	+ 5	SSW	5	0	2	op, cp	0	54	44	0.04
	Spurn Head ...	29.31	50	SSW	5	r	29.07	- .35	47	46	- 1	SSW	5	0	5	or	0	51	47	0.09
GERMANY & HOLLAND.	York ...	29.25	52	SSW	3	bc	29.02	- .34	49	46	0	S	3	c	0	op, bc	0.0	53	48	0.04
	Loughborough ...	29.37	51	SSW	6	r	29.10	- .41	48	45	- 2	SW	4	ow	0	op, r, o	0	54	47	0.40
	Ardrossan ...	29.02	49	SSW	3	cp	28.63	- .34	47	47	- 2	S	9	op	6	cp	0	49	46	0.22
	Malin Head ...	28.89	47	S	3	bcum	28.34	- .50	43	43	- 5	SSW	10	r	5	b, bcum	0	51	40	0.25
	Belmullet ...	28.85	49	SSW	4	op	28.60	- .33	45	42	- 6	SW	8	0	0	c, op	0	51	40	0.65
	Donaghadee ...	29.03	51	SW	6	c	28.67	- .35	45	43	- 6	SW	8	0	6	c	0	53	44	0.03
	Liverpool (Bidston)	29.24	54	SSE	3	0	28.98	- .33	46	41	- 7	SSW	6	0	5	op	0	54	45	0.13
	Holyhead ...	29.17	51	SW	7	ogpm	28.91	- .31	47	44	- 5	SW	7	cp, og	6	cp, og, p	0	53	44	0.47
	Parsonstown ...	29.00	52	S	2	c	28.84	- .25	41	39	- 11	SW	2	or	0	op, c	1.5	54	40	0.36
	Valencia ...	28.86	53	S	4	ogm	28.87	- .25	46	40	- 8	SW	6	cp	6	pg, ogm	0.0	54	41	0.75
FRANCE & BELGIUM.	Roche's Point ...	29.03	52	SW	8	p	29.00	- .23	45	43	- 8	W	5	bc	6	p	0	55	43	0.20
	Pembroke (St. Ann's Hd.)	29.24	52	SW	7	0	29.08	- .23	46	44	- 6	WSW	8	bc, og	7	0	0.0	52	44	0.59
	Scilly ...	29.28	54	S	8	rw	29.15	- .27	49	46	- 3	WSW	7	c	7	rw	0.0	56	45	0.88
	Prawle Point ...	29.46	51	SSW	9	rg	29.23	- .42	48	45	- 4	W	7	og	7	og	0	53	42	0.80
	Jersey (St. Aubin's)	29.73	52	S	7	og	29.35	- .54	49	47	- 3	SSW	6	opm	6	o, rg	0	54	47	0.36
	Hurst Castle ...	29.57	52	SSW	8	pdg	29.25	- .49	50	48	- 2	SW	6	omw	4	opg	0	53	42	0.27
	Dungeness ...	29.69	51	SSW	8	0	29.34	- .49	48	48	- 2	S	9	rg	8	c, o	0	53	47	0.17
	North Foreland	29.69	49	S	7	rgm	29.36	- .48	46	45	- 3	S	7	rgm	5	o, rgm	0	52	45	0.10
	London (Brixton) ...	29.58	50	SSW	7	og	29.29	- .45	47	48	- 1	SSW	7	og	0	og	0.0	54	47	0.35
	Oxford ...	29.45	51	S	6	rg	29.20	- .42	47	46	- 3	SSW	4	og	0	og	0	53	47	0.39
PENIN- SULA.	Cambridge ...	29.48	51	SSW	7	c	29.19	- .45	49	48	- 1	SSW	6	ogpg	0	c	0.0	55	47	0.07
	Yarmouth ...	29.55	50	SSW	7	rgg	29.26	- .44	47	46	0	SSW	7	og	5	rgg	0	51	45	0.06
	Cuxhaven ...	29.84	43	S	6	0	29.69	- .30	40	40	- 2	S	7	bc	0	0	0	46	39	-
	Berlin ...	30.15	39	S	6	0	30.04	- .19	38	31	- 2	SE	3	bc	0	0	0	43	32	-
	Wiesbaden ...	30.34	28	SE	2	0	29.98	- .32	30	30	- 4	SE	2	0	0	0	0	39	30	-
	Munich ...	30.34	28	SE	2	0	30.07	- .37	19	18	- 4	E	2	0	0	0	0	41	19	-
	The Helder ...	29.69	46	SSW	8	0	29.48	- .39	43	41	+ 1	SSW	4	0	2	0	0	46	41	0.04
	Brussels ...	29.55	47	SW	6	0	29.63	- .44	46	40	+ 5	SSE	7	c	0	0	0	48	41	-
	Cape Gris Nez ...	30.04	45	SSE	3	c	29.38	- .47	45	43	- 1	SW	6	r	6	0	0	50	41	0.12
	Paris ...	29.58	51	S	7	r	29.67	- .50	48	41	+ 5	S	5	c	0	0	0	52	43	-
GERMANY & HOLLAND.	Brest ...	29.58	51	S	7	r	29.39	- .43	51	49	- 3	SW	5	0	7	r	0	52	37	1.02
	Lorient ...	30.00	46	S	5	0	29.67	- .51	46	45	0	S	7	r	0	c, o	0	48	41	0.10
	Rocheport ...	30.26	39	SW	2	0	30.00	- .38	31	30	- 6	E	2	bc	0	0	0	51	37	-
	Belfort ...	30.28	46	S	3	0	29.97	- .46	47	42	+ 12	S	7	ev	0	0	0	50	35	-
	Lyons ...	30.44	45	E	1	c	30.34	- .09	40	40	+ 1	E	1	0	2	0	0	52	39	0.04
	Nice ...	30.29	46	2	0	0	29.95	- .48	49	42	+ 9	S	5	0	0	0	0	54	32	-
	Perpignan ...	30.06	55	SW	6	c	29.75	- .50	53	46	+ 4	SW	8	0	5	c	0	59	49	-
	Biarritz ...	30.06	55	SW	6	c	29.75	- .50	53	46	+ 4	SW	8	0	5	c	0	59	49	-
	Corunna ...	30.25	57	S	5	r	29.95	- .47	58	56	+ 8	SSW	8	r	0	r	0	58	55	0.32
	Lisbon ...	30.14	58	W	5	0	30.22	+ .04	57	53	- 4	NNW	3	c	3	0	0	64	55	0.04
	Azores (P. Delgada)																			

For Explanation of Columns, see bottom of last page.

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

Bright Sunshine yesterday Southport 0.0 hrs;

† Received too late for Insertion in Charts on next page.

WEATHER CHARTS

FOR Thursday, 30th December, 1897.

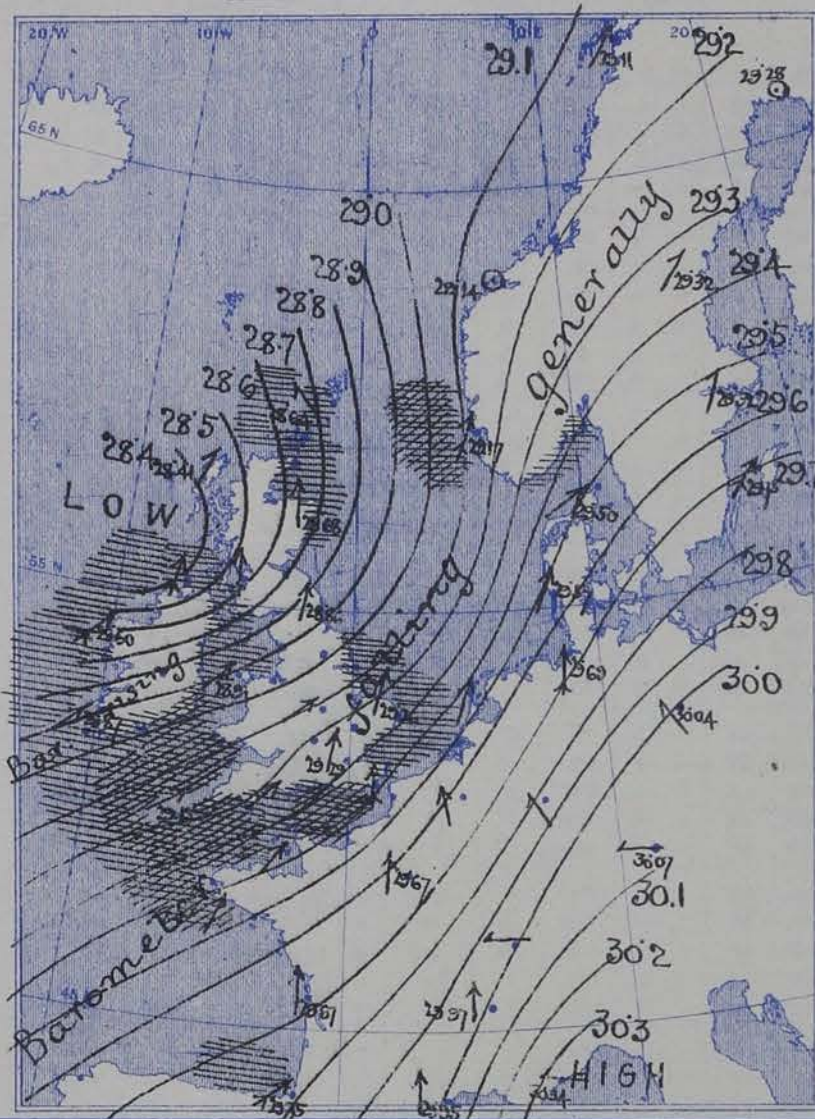
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew 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 ≡≡≡



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 88	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and upwards in the S.E. of France.
Lowest 28.4 ins. and less in a deep depression with its centre off the W. of Scotland.
Gradients steep generally. Barometers falling in most places, but rising again on our own extreme W. and S.W. coasts.

TEMPERATURE

Highest 53° at Biarritz, 50° at Hurst Castle, and 49° at Wick, Shields, York, Scilly, Jersey, London, Cambridge and Perpignan.
Lowest (1) 19° at Munich, 30° at Wiesbaden, and 31° at Belfast; (2) 32° at Haparanda; lowest in our Islands 41° at Parsonstown.
During yesterday the thermometer rose to 50° and upwards in most parts of the United Kingdom, and to 55° at Roches Pt., Scilly and Cambridge.

WIND

Strong to a gale from the Snd or S.W.nd over northwestern Europe generally, but light from the S.E.nd or E.nd in Germany.

WEATHER

During the past night a strong to whole gale has been experienced on most parts of our W. and S.W. coasts.
Cloudy and unsettled over nearly the whole of NW^m Europe, with rain or passing showers in many places.
Fog on our extreme S.W. coasts as well as over Germany and central France.
Since yesterday morning rain has fallen over NW^m Europe generally, the largest amounts reported this morning being 0.9 in. at Scilly, 0.8 in. at Valencia (Ireland) and Princes Pt. and 0.7 in. at Belmullet.

SEA

Very high at Dungeness and also at Skudenovæ, high on our S.W. coasts, and rough or rather so elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the W. of Scotland is moving Nth, but the wind on our extreme W. coasts shows little disposition to veer. The general appearance remains very unsettled, and it is not unlikely that fresh depressions will shortly approach the Irish coasts.

FORECASTS

For the 24 hours ending at NOON on 31ST DEC. 1897.

DISTRICTS.

FORECASTS.

- 1 SCOTLAND NORTH
- 1 SCOTLAND EAST
- 1 ENGLAND N.E.
- 1 ENGLAND EAST
- 4 MIDLAND COUNTIES
- 1 ENGLAND SOUTH

Sth winds, strong to a gale, squally, some rain.

Same as No. 5.

Sth and S.W.th winds strong, a gale in places, squally, showery.

DISTRICTS.

FORECASTS.

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

S.W.th to Sth gales or strong winds, squally, rain at times.

At 10 am. today to district 0. Hoist South Cone. The Signals are now flying on all coasts.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes	29.31	43	41	S	8	r	6	Valencia	29.06	54	52	SSW	5	ogp	6
Sumburgh Head	28.96	43	42	S	2	c	4	Scilly	29.39	54	54	SSW	7	m	5
Stornoway	28.89	41	40	ESE	3	o	3	Jersey	29.78	53	51	SSW	7	p	5
Aberdeen	28.88	44	43	SSW	2	org	4	Hurst Castle	29.64	52	50	SSW	8	c	6
Shields	29.10	53	51	SSW	5	op	4	Dungeness	29.73	52	50	S	7	o	5
Ardrossan	29.96	49	49	SSW	4	op	4	North Foreland	29.72	52	50	S	7	o	5
Malin Head	28.86	50	49	SW	3	b	2	London (Westminster)	29.61	53	51	SSW	6	ogp	#
Belmullet	28.95	46	43	SW	2	c	#	Yarmouth	29.57	51	49	SSW	6	ogp	5
Holyhead	29.19	52	51	SW	8	opg	7	Rocheport	30.12	46	45	S	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning dull, squally and rainy over the greater part of our Islands and the neighbouring portions of the Continent. Fine in the W. of Norway and also in many parts of Germany and central France; cloudy or dull over the Continent as a whole, with rain at Bordeaux and also at Lisbon. Rain falling later over NW^m Europe generally, - heavily at many of our own W^m and SW^m stations. Lunar halo seen at Malin H^d in evening.

Temperature risen generally but fallen in Scandinavia and also over Austria, NW^m Italy and the S. of France. Morning readings, highest (1) 56° at Sanguinaire and Malta, and 55° at Spaa; (2) 54° at Valencia (Ireland) and Brest, and 53° at Liverpool and Roch's Pt.; above 50° in the W. and S. of our islands generally. Lowest 0° at Nicolaieff, +8° at Kharkov and Hermanstadt, and 11° at Odessa; below the freezing point over E^m and central Europe generally. Rising during day to between 50° and 55° in nearly all parts of our Islands and France, and touching 59° at Biarritz.

Wind S^W or SW^W over western and northern Europe generally; strong to a gale in force on our own western and southern coasts as well as in the South of Scandinavia. Light from the S^W or SE^W in Germany, calm in Austria; variable in most of the southern and southeastern countries. Gale on our western and southern coasts increasing in evening or night, and spreading to the neighbouring parts of the Continent.

Barometer highest 30.7 ins. and upwards in the S. of Russia; 30.3 ins. and upwards in an anticyclone extending thence over central and S^m Europe generally. Lowest 28.9 ins. and less in a deep depression with its centre off the NW. of Ireland, 29.3 ins. and less in another disturbance over the White Sea. Depression in W. subsequently moving NW^W but now and still deeper disturbance ^{appearing} off the W. of Ireland in evening.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France, at 5 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 „

DAILY WEATHER REPORT

for 8 a.m. on Friday 31st December, 1897.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.	
				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.
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
Haparanda ...	...	29.42	29	S	2	0	29.32	+0.04	33	33	+1	S	4	5	#	0	#	36	27	0.16
Hernösand ...	...	29.37	38	SW	4	f	29.42	+0.10	38	37	+1	S	4	7	#	f	#	43	32	0.04
Stockholm ...	...	29.64	40	SW	2	0	29.65	+0.13	36	35	-10	SSW	2	0	#	0	#	46	36	-
Wisby ...	...	29.75	39	SSW	6	0	29.74	-0.01	35	34	-6	SSW	4	6	#	0	#	41	35	-
Karlstad ...	...	29.30	41	SSW	4	0	29.52	+0.04	39	38	-4	SSW	4	7	#	0	#	#	#	0.39
Bodö ...	...	29.23	33	SSW	4	b	29.11	0.00	40	39	0	E	4	0	1	b	#	40	28	-
Christiansund ...	...	28.95	42	ESE	2	c	29.11	-0.03	41	39	+4	ESE	1	6	3	c	#	43	37	0.08
Skudesnaes ...	...	29.15	46	SSE	8	0	29.19	+0.02	45	43	-1	SSE	9	6	7	0	#	46	39	#
Færder (Christiania Fjord)	...	29.37	42	S	8	0	29.43	+0.06	42	42	-2	S	4	0	4	0	#	45	42	0.24	
Skagen (The Scaw)	...	29.46	42	SW	5	r	29.48	-0.02	42	41	-2	SSW	5	0	2	r	#	45	41	0.30	
Fanö ...	...	29.48	42	SSW	4	r	29.45	-0.12	42	41	0	SSW	4	0	#	r	#	43	41	0.08
Sumburgh Head	...	28.51	44	S	7	r	28.69	+0.05	45	42	-2	S	7	0	7	c, r	#	49	43	0.21	
Stornoway ...	...	28.31	41	WSW	8	r	28.56	+0.15	44	43	-1	W	3	7	3	r	0.0	46	37	1.03
Wick ...	...	28.54	46	SW	8	c	28.63	+0.10	44	43	-5	SW	6	6	5	c	#	51	40	-
Nairn ...	...	28.59	42	WSW	4	c	28.67	+0.15	42	39	-6	WSW	2	c	2	c	#	48	32	0.10
Aberdeen ...	...	28.80	43	SSW	8	b, c	28.78	+0.10	44	42	-3	SSW	6	c, g	6	b, c, r	1.0	48	41	0.04
Leith ...	...	28.94	43	SW	4	b	28.78	+0.10	42	41	-6	WSW	2	r	#	b	#	48	40	0.04
Shields ...	...	29.04	43	SW	3	b	28.94	+0.08	44	42	-5	SSW	4	0	2	c, b	#	49	40	-
Spurn Head ...	...	29.20	44	S	4	b	29.11	+0.04	44	42	-3	SSW	5	6	4	b	#	48	42	-
York ...	...	29.14	44	S	2	b	29.05	+0.03	43	41	-6	S	3	6	#	c, b	0.9	49	39	0.01
Loughborough ...	...	29.20	44	SW	3	b	29.16	+0.06	43	41	-5	SW	4	6	#	c, b, b, c	#	49	42	-
Ardrossan ...	...	28.84	45	SSW	7	b	28.80	+0.07	45	45	-2	SW	4	0	3	c, b	#	47	42	0.07
Malin Head ...	...	28.69	40	S	6	b, c	28.77	+0.03	44	44	+1	SSW	3	0	2	c, b, c	#	44	39	0.06
Belmullet ...	...	28.78	40	S	4	op	28.71	+0.11	40	39	-5	S	3	0	#	b, c, op	#	47	39	0.05
Donaghadee ...	...	28.90	41	SSW	6	c	28.86	+0.07	41	40	-7	WSW	5	6	4	c	#	46	40	0.05
Liverpool (Bidston)	...	29.10	44	SSE	3	b	29.04	+0.06	45	42	-1	S	4	0	4	b, p, q	#	47	40	-	
Holyhead ...	...	29.01	46	SW	7	c, b, q	28.97	+0.06	48	46	+1	SW	7	c, q	6	c, q, b, q	#	49	41	0.31
Parsonstown ...	...	28.85	41	SE	1	0	28.87	+0.03	44	43	+3	SE	1	0	6	t, p, or	3.0	45	39	0.43
Valencia ...	...	28.75	47	S	4	omg	28.88	+0.01	48	46	+2	W	6	omp	6	b, c, g, m	0.7	50	41	0.46
Roche's Point ...	...	28.91	47	SSW	7	c	28.93	-0.07	48	48	+3	WSW	5	r	5	b, c, q	#	49	42	0.50
Pembroke (St. Ann's Hd.)	...	29.04	48	SW	7	c	29.07	-0.01	50	48	+4	WSW	7	c	6	c	1.3	50	46	0.09	
Seilly ...	...	29.14	48	SSW	6	cp	29.19	+0.04	48	46	-1	SW	6	c, q	7	cp	2.2	50	46	0.16
Prawle Point ...	...	29.23	47	SW	6	c	29.27	+0.04	49	45	+1	SW	6	cp, q	5	cp, q	#	52	45	0.12
Jersey (St. Aubin's)	...	29.35	49	S	4	b	29.40	+0.05	49	47	0	SW	4	6	4	o, b, p, q	#	51	46	0.10	
Hurst Castle ...	...	29.29	48	SW	4	cp	29.28	+0.03	49	47	-1	SW	4	cp	3	cm, cp	#	51	43	0.27
Dungeness ...	...	29.28	49	SSW	6	0	29.30	-0.01	48	47	0	SSW	6	c	6	c, o, q	#	49	47	0.04
North Foreland	...	29.43	49	S	4	cp	29.35	-0.01	47	45	+1	S	5	o, q	4	cp	#	50	44	0.15	
London (Brixton) ...	...	29.32	46	SSW	3	b	29.30	+0.01	45	43	-4	SSW	3	6	#	p, q, c, b, c	0.0	50	44	0.05
Oxford ...	...	29.26	45	S	3	c	29.23	+0.03	43	42	-4	S	3	6	#	c, p	#	50	42	0.18
Cambridge ...	...	29.29	45	S	3	b	29.25	+0.06	45	44	-4	S	3	6	#	b	0.0	50	41	0.02
Yarmouth ...	...	29.31	46	SSW	4	c	29.28	+0.02	45	43	-2	SSW	5	6	4	c	#	48	43	0.07
Cuxhaven ...	...	29.57	45	S	6	0	29.51	-0.18	42	42	+2	S	3	0	#	r, o	#	46	39	0.04
Berlin ...	...	29.86	28	SE	4	b	29.78	-0.26	26	24	-7	SE	3	c	#	b	#	39	25	-
Wiesbaden ...	...	#	#	#	#	#	29.71	-0.27	35	35	+5	SE	1	0	#	#	#	37	30	0.12
Munich ...	...	29.84	23	SE	3	b	29.76	-0.31	30	28	+11	S	2	0	#	b	#	36	19	-
The Helder ...	...	29.41	45	SSW	4	0	29.41	-0.07	43	42	0	SSW	3	0	2	0	#	46	41	0.10
Brussels ...	...	#	#	#	#	#	29.51	-0.12	45	43	-1	S	5	0	#	r	#	49	42	0.06
Cape Gris Nez ...	...	29.39	46	SW	5	0	29.37	-0.01	44	42	-1	SW	5	6	5	0	#	50	41	-
Paris ...	...	29.57	45	S	4	r	29.58	-0.09	40	41	-5	SSW	3	0	#	r	#	48	41	0.55
Brest ...	...	29.29	49	SSW	5	c	29.35	-0.04	50	49	-1	WSW	5	c	7	c	#	54	45	0.04
Lorient ...	...	29.37	49	SW	6	r	29.47	-0.04	49	49	-1	SW	5	c	6	r	#	55	45	0.08
Rochefort ...	...	29.52	48	SSW	5	0	29.62	-0.05	50	47	+4	WNW	4	6	#	0	#	50	43	1.06
Belfort ...	...	29.78	36	SW	1	0	29.69	-0.31	42	40	+11	W	2	0	#	0	#	45	31	-
Lyons ...	...	29.78	50	S	3	0	29.71	-0.26	42	41	-5	W	2	r	#	0	#	51	41	0.08
Nice ...	...	30.16	44	E	1	r	29.88	-0.46	45	44	+5	E	4	r	4	r	#	46	40	2.28
Perpignan ...	...	29.76	52	S	6	0	29.80	-0.15	49	43	0	NNW	2	0	#	0	#	55	46	-
Biarritz ...	...	29.61	53	SSW	7	0	29.74	-0.01	49	43	-4	SSW	5	6	5	0	#	57	46	0.20
Corunna ...	...	#	#	#	#	#	29.51	-0.12	45	43	-1	S	5	0	#	r	#	49	42	0.06
Lisbon ...	...	30.10	53	WSW	4	0	29.91	-0.04	57	55	-1	SSW	6	r	#	0	#	59	53	0.39
Azores (P. Delgada)	...	30.08	60	WSW	5	b	30.14	-0.08	58	55	+1	NNW	3	c	3	b	#	64	57	0.04	

For Explanation of Columns, see bottom of last page.

† Received too late for Insertion in Charts on next page.

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

Bright Sunshine yesterday Southport 2.4 hrs.

WEATHER CHARTS

FOR FRIDAY, 31ST DECEMBER, 1897.

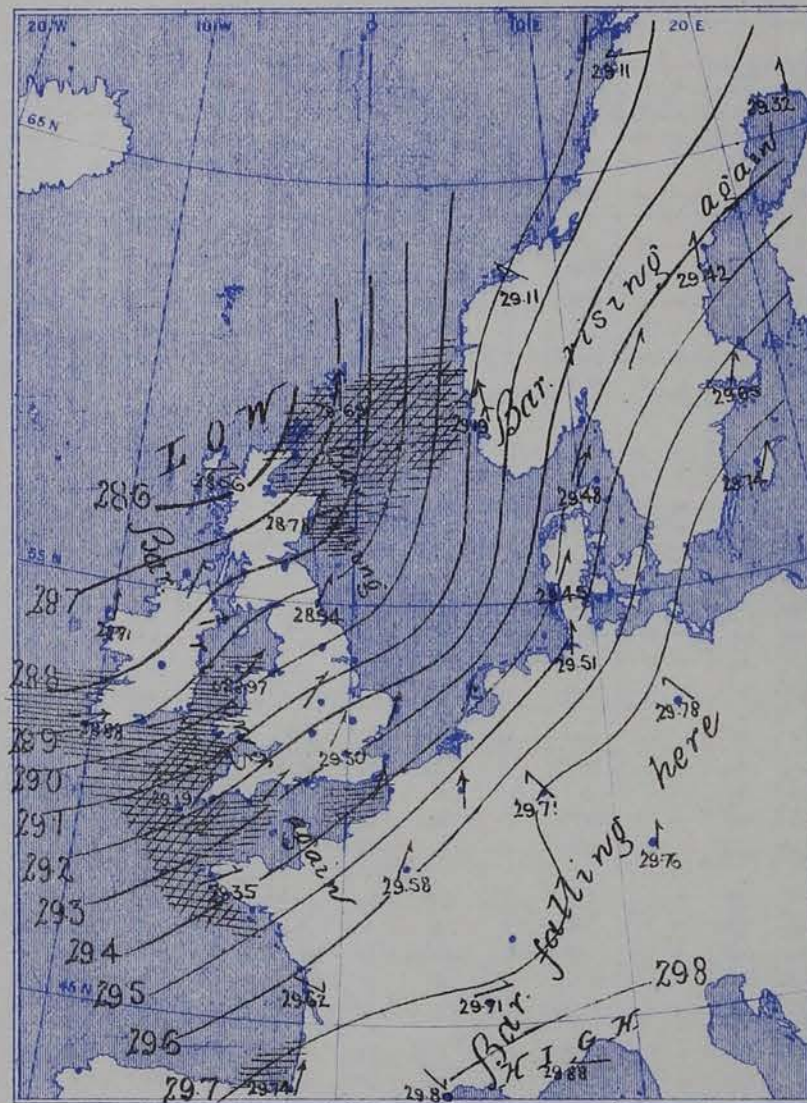
BAROMETER, WIND AND SEA.

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 ≡≡≡

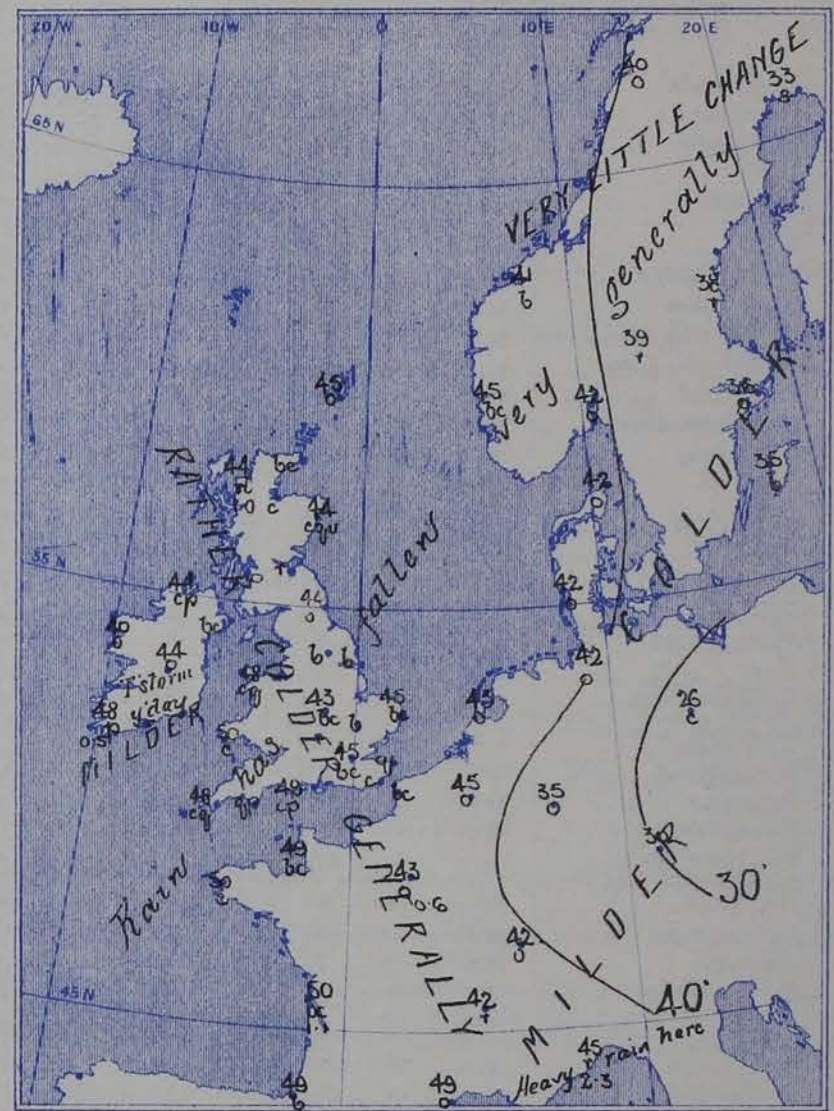


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF DECEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29.656	39.8	38.3	42.8	35.5	53	1890	19	1877	4.27	—	—
Stornoway	29.688	39.6	38.7	43.3	34.4	54	1880	15	1880	5.64	25.4	13
Wick	29.699	38.3	37.1	42.4	33.0	55	1889, 94	10	1880	3.17	—	—
Nairn	29.727	37.2	35.7	42.2	32.4	57	1888, 90, 91, 92, 94	10	1882	1.94	—	—
Aberdeen	29.758	37.0	35.3	42.0	32.8	58	1873	6	1882	3.11	39.9	20
Leith	29.797	38.7	37.2	44.1	33.7	58	1873, 88	6	1882	1.89	—	—
Shields	29.836	38.4	37.0	43.1	33.9	59	1873	10	1878, 79	2.32	—	—
Spurn Head	29.870	38.9	37.8	42.6	35.4	55*	1888	19*	1891	2.05	—	—
York	29.886	36.6	35.6	42.5	32.4	59	1888, 91	0	1879	2.21	26.5	12
Loughborough	29.922	36.4	35.4	43.0	32.3	59*	1888	7*	1890	2.24	—	—
Ardrossan	29.809	40.3	39.1	44.7	36.2	55	1880	15	1879	3.66	—	—
Malin Head	29.768	41.3	39.6	45.2	38.1	—	—	—	—	—	—	—
Belmullet	29.822	42.8	40.9	46.9	39.0	—	—	—	—	5.36	—	—
Donaghadee	29.840	40.4	39.5	45.8	36.3	56	1885, 88, 94	20	1879	2.85	—	—
Holyhead	29.876	42.8	41.2	46.5	39.2	56	1872, 88	25	1874	3.83	—	—
Liverpool	29.891	39.0	37.3	43.8	35.7	59	1891	13	1878	2.62	—	—
Parsonstown	29.891	38.3	37.0	45.1	33.5	58	1877	8	1878	3.09	45.0	20
Valencia	29.900	45.0	42.9	49.9	40.4	57	1884, 88	24	1886	5.93	43.9	19
Roche's Point	29.908	43.5	42.1	48.2	39.4	58	1873	25	1882	5.16	—	—
Pembroke	29.914	43.9	42.6	47.0	40.5	55	1876	19	1890	3.96	46.0	20
Scilly	29.950	47.4	45.5	49.8	43.6	57	1876	30	1890	4.00	—	—
Prawle Point	29.970	42.8	41.4	47.3	38.5	55*	1881, 88	25*	1885, 87, 90	3.77	—	—
Jersey	29.993	43.5	41.7	47.7	39.7	61	1876	19	1871	3.76	62.6	25
Hurst Castle	29.962	40.9	40.1	45.9	36.7	58	1876	19	1890	2.77	—	—
Dover	29.954	40.0	38.9	44.7	35.9	56	1880	12	1890	2.79	—	—
LONDON	29.956	38.0	36.8	44.3	34.0	58	1873, 88, 91	11	1878	2.11	11.8†	5†
Oxford	29.956	37.1	36.0	43.2	33.6	58	1888	6	1878	2.10	41.8	18
Cambridge	29.941	36.4	35.6	43.2	31.6	59	1878, 89	0	1879	1.82	41.2	18
Yarmouth	29.915	38.1	37.1	42.2	33.8	56	1873	15	1879	2.53	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and upwards in Portugal, 29.8 ins. and upwards in the S. of France.

Lowest 28.6 ins. and less in a depression lying to the N. of the Hebrides.

Gradients rather steep over our islands and the North Sea, but moderate or slight elsewhere.

Barometer rising a little in many parts of the United Kingdom and also in Scandinavia, falling elsewhere, - most in Germany and the S. of France.

TEMPERATURE

Highest 57° at Lisbon, 50° at Pembroke, Brest and Rochefort, and 49° at Braulio P., Jersey, Hurst Castle, Biarritz and Perpignan.

Lowest (1) 26° at Berlin, 30° at Munich, and 35° at Wiesbaden; (2) 33° at Haparanda; lowest in our Islands 40° at Belmullet.

During yesterday the thermometer rose to 50° or slightly above it at several of our S. stations, and also at Wick.

WIND

Fresh to strong from the SW. or W. on the west coasts of our Islands and France.

S. in most other parts of our area, moderate or fresh in force generally, but strong in the NE of Scotland, and blowing a gale at Skudesnæs.

Light from the SE. in Germany; variable in the south of France.

WEATHER

Changeable and showery over W. Europe as a whole, but fine (temporarily) over the E. and central parts of England, as well as on the W. coasts of France & Norway. Lightning was reported at Stornoway.

Steady rain was falling in the S. of France; snow at Haparanda.

Since yesterday morning rain has fallen over the greater part of our area, the largest amounts being 2.3 in. at Wick, 1.1 in. at Rochefort, and 1.0 in. at Stornoway. Thunder and lightning occurred yesterday at Rochefort and lightning at Holyhead.

SEA

High at the mouth of the English Channel, as well as at Lymington H. and Skudesnæs, rough or rather so on most parts of our W., N. and S. coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed off our NW. coasts yesterday has travelled away to the N., but secondary disturbances are apparently advancing over our islands from the W. The weather is therefore likely to remain very unsettled for a time, with strong winds or gales on many parts of our W. and S. coasts.

FORECASTS

For the 24 hours ending at NOON on 1ST JANUARY 1893

DISTRICTS.

FORECASTS.

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

3rd winds, strong, squally, showery.

Same as No. 5.

3rd and SW winds, strong in places, squally, showery.

DISTRICTS.

FORECASTS.

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

3rd to 4th winds, strong, a gale

in places, squally, showery.

WARNINGS

At 7 pm. last evening to districts 5 to 10. Keep up South Cone. The signals are still flying in district 6.

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.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.07	45	45	S	10	r f	0	Valencia ...	28.85	46	43	SSW	5	bc apph	6
Sumburgh Head ...	28.51	46	44	SE	5	c	5	Scilly ...	29.15	48	46	SSW	5	c p	6
Stornoway ...	28.19	44	43	SW	6	r	7	Jersey ...	29.37	51	50	SSW	5	o	5
Aberdeen ...	28.70	46	41	S	8	bc q	6	Hurst Castle ...	29.29	51	48	SW	4	c m	3
Shields ...	28.99	46	43	SSW	4	ep	2	Dungeness ...	29.35	49	48	SSW	6	c	6
Ardrossan ...	28.80	47	46	SSW	9	c	6	North Foreland ...	29.41	49	47	S	4	o	3
Malin Head ...	28.62	43	43	SSW	6	c	4	London (Westminster) ...	29.29	51	48	SSW	3	c	#
Belmullet ...	28.75	45	41	SSW	6	bc q p	*	Yarmouth ...	29.28	47	46	SSW	4	c	4
Holyhead ...	29.00	48	43	SW	8	c q	7	Rochefort ...	29.54	50	48	SSW	6	o	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of our islands and the Continent, with rain or passing showers in many parts of the NW. and N. countries and some at Naples. Fine on our extreme SW. coasts, and also in Germany and central France. Some improvement taking place later over the E. parts of our islands, but showers falling in the W. and N., and heavy rain in the Shetlands. Large quantities of rain falling also at some of the French stations, — as much as 2.3 in. at Nice. Thunder and lightning occurring at Rocher Pt. and lightning at Pembroke.

Temperature fallen in all the more W. and S. parts of our islands, changed rather irregularly elsewhere. Morning reading highest 58° at Lisbon and San Fernando, 56 at Cagliari, and 53 at Biarritz and Algiers, well above 45° in nearly all parts of the United Kingdom. Lowest 8° at Nicolaieff, 10° at Kharkov, and 12° at Odessa, considerably below the freezing point over Austria and S. Germany. Rising during day to 50° or slightly above it at most of our own S. stations and also at Wick, reaching 55° or more in the extreme S. of France, and touching 59° at Lisbon.

Wind S. to SW. over our islands and all the more W. and N. parts of the Continent, strong to a gale in force in many places, but light or moderate in the Shetlands and Hebrides, and also in the N. parts of Scandinavia and Russia. Calm in the extreme S. of Russia, light and variable in Austria and Italy. Wind subsiding later in the S. and E. of England, but strong gale springing up in the N. of Scotland. Another gale experienced on some parts of our W. and S. coasts at night.

Barometer 30.7 ins. and upwards in the S. of Russia, 30.3 ins. and upwards in our anticyclone extending thence over Austria, Italy and the Mediterranean. Lowest 28.4 ins. and less in a deep depression, with its centre off the W. of Scotland. Depression subsequently moving NW. and barometer at Stornoway falling below 28.2 ins. in a new disturbance approaching the Irish coasts in evening.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each station is the Standard Time of its Country.

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 "

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
DATE.	STATIONS.	BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
		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.)					Max.	Min.	Rainfall.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
1	Corunna.....	30.17	56	HW	2	b	30.12	- .14	56	50	+ 10	HW	7	0	4	b	b	57	45	0.08	
2	Karlstad.....	29.68	21	NE	6	b	29.89	+ .49	21	18	0	NE	6	6	-	b	-	-	-	-	
	Corunna.....	30.12	53	HW	6	b	30.04	- .08	53	46	- 3	N	6	0	6	b	-	57	39	0.16	
3	Corunna.....	30.11	52	N	7	0	30.18	+ .14	49	45	- 4	E NE	3	0	5	0	-	55	37	0.08	
4	Corunna.....	30.24	48	HW	3	r	30.28	+ .10	43	41	- 6	WSW	2	c	3	r	-	52	37	0.08	
	Azores (P. Delgada)	30.58	57	NE	2	0	30.56	- .03	55	50	- 2	NE	3	0	3	0	-	61	54	-	
7	Corunna.....	30.34	55	HW	4	0	30.48	-	49	48	-	NE	1	.6	3	0	-	59	39	-	
8	Corunna.....	30.47	57	HW	1	c	30.34	- .14	55	55	+ 6	SW	3	0	5	c	-	57	39	0.04	
9	Corunna.....	30.24	59	N	9	0	30.24	- .10	55	51	0	HW	3	0	5	0	-	61	39	0.12	
10	Corunna.....	30.16	56	WSW	2	c	30.10	- .14	55	55	0	SW	6	0	8	c	-	59	44	0.24	
	Corunna.....	30.07	60	SW	6	0	30.12	+ .02	57	55	+ 2	SE	2	c	8	0	-	61	48	0.12	
13	Corunna.....	30.04	60	SW	4	b	29.94	- .12	57	54	0	S	4	0	3	b	-	61	45	0.04	
14	Corunna.....	29.88	59	S	6	0	29.76	- .18	53	49	- 4	SSW	4	0	7	0	-	61	48	0.12	
15	Corunna.....	29.80	57	SW	6	b	29.84	+ .10	55	52	+ 2	S	4	0	8	b	-	57	50	0.12	
16	Corunna.....	29.88	61	SSW	3	0	29.89	+ .05	61	57	+ 6	S	3	0	2	0	-	63	52	0.04	
	Lisbon.....	30.12	59	S	4	0	30.08	- .02	58	57	+ 2	S	4	r	-	0	-	66	56	0.32	
17	Corunna.....	29.87	64	S	6	0	29.92	+ .03	58	54	- 3	E	3	0	3	0	-	64	52	-	
20	Corunna.....	29.82	61	SE	4	c	29.94	+ .10	?	?	?	SSE	?	?	4	c	-	63	45	-	
21	Corunna.....	29.95	60	SE	1	b	30.18	+ .24	48	45	+ 2	SSE	2	b	2	b	-	61	43	-	
22	Corunna.....	30.21	59	SSE	2	b	30.30	+ .12	45	44	- 3	SE	2	b	2	b	-	59	41	-	
23	Cape Gris Neg	30.53	34	E	2	m	30.49	- .05	36	-	+ 8	ESE	1	m	1	m	-	36	27	-	
	Corunna.....	30.28	60	SE	2	b	30.24	- .06	47	44	+ 2	SE	3	b	3	b	-	61	41	-	
24	Corunna.....	30.25	61	SE	3	b	30.16	- .08	50	45	+ 3	SE	4	b	3	b	-	61	43	-	
26	Corunna.....	30.28	59	S	2	b	30.49	-	48	42	-	SSE	2	b	3	b	-	61	41	-	
27	Corunna.....	30.45	57	S	3	b	30.30	- .19	53	46	+ 5	SSE	3	c	2	b	-	57	37	-	
28	Corunna.....	30.25	55	S	5	c	30.32	+ .02	49	47	- 4	SSW	3	0	3	c	-	55	39	-	
29	Corunna.....	30.30	57	SSW	4	0	30.18	- .14	53	49	+ 4	S	6	0	7	0	-	59	48	-	
	Azores (P. Delgada)	30.34	61	SW	5	0	30.18	- .28	61	60	+ 4	SW	5	0	6	0	-	61	57	-	
30	Corunna.....	30.03	56	S	8	c	30.04	- .14	51	48	- 2	SW	4	f	5	c	-	61	45	1.58	
31	Corunna.....	29.74	52	N	7	0	29.62	- .42	50	48	- 1	S	4	0	8	0	-	57	46	0.12	

REPORTS FOR DECEMBER, 1897.

2. CORRECTIONS.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
DATE.	STATIONS.	BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		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.)					Max.	Min.		
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
3	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	
"	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C.T	-	-	-	0.16	
5	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
"	North Foreland	-	-	-	-	-	30.26	+ .06	-	-	-	-	-	-	-	-	-	-	-	-	
6	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
7	Valencia	-	-	-	-	-	29.81	- .07	-	-	-	-	-	-	-	-	-	-	-	-	
8	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
"	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	
12	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95	
13	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
14	Nairn	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-	
15	Pembroke	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	1.4	-	-	-	
16	Loughborough	-	-	-	-	-	29.68	+ .34	-	-	-	-	-	-	-	-	-	-	-	-	
"	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
17	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	no rain	
18	Ararossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	
"	Azores (P. Delgada)	-	-	-	-	-	29.86	+ .05	-	-	-	-	-	-	-	-	-	-	-	-	
"	Jersey 2pm	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	
19	Nairn	30.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Yarmouth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	no rain	
20	Jersey	-	-	-	-	-	30.17	- .03	-	-	-	-	-	-	-	-	-	-	-	-	
23	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	39	-	
24	Prawle Point	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	-	
25	Yarmouth	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	
27	Spurn Head	-	-	-	-	-	29.81	- .49	-	-	-	-	-	-	-	-	-	-	-	-	
28	Pembroke	29.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Yarmouth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	
29	Stornoway	-	-	-	-	-	-	-	38	-	6	-	-	-	-	-	-	-	-	-	
"	Parsonstown	-	-	-	-	-	29.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	
"	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	