METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER, 1897.

DAILY WEATHER REPORT.

July to December 1897.

DAILY WEATHER REPORT

for 8 a.m. on Monday 1st November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.77	43	WSW	6	b	29.78	+ .27	44	40	− 3	W	6	o	*	b	*	47	39	—
	Hernösand ...	30.25	45	NW	4	bc	30.18	+ .17	47	41	− 3	WNW	6	c	*	bc	*	52	36	—
	Stockholm ...	30.37	41	N	0	b	30.40	+ .16	38	37	− 2	W	2	bc	*	b	*	48	36	—
	Wisby	30.40	44	NW	4	b	30.44	+ .13	44	43	+ 2	NNW	4	b	*	b	*	48	36	—
	Karlstad ...	30.43	35	NW	2	b	30.46	+ .17	30	29	− 13	NNW	2	b	*	b	*	*	*	—
	Bodö	30.07	44	W	8	r	29.98	+ .40	45	45	− 4	SW	9	r	6	r	*	45	39	1.02
	Christiansund ...	30.44	47	W	5	f	30.45	+ .13	47	43	+ 1	W	7	o	4	f	*	47	45	—
	Skudesnaes ...	30.44	43	N	0	b	30.51	+ .11	37	37	− 8	N	1	f	1	o, b	*	52	36	*
	Færder (Christiania Fjord)	30.44	38	N	1	f	30.47	+ .15	39	39	+ 2	NW	1	f	1	f	*	39	37	—
	Skagen (The Scaw)	30.43	45	N	0	b	30.50	+ .16	42	42	− 1	W	1	o	0	b	*	50	36	—
	Fanö	30.45	46	N	0	o	30.49	+ .10	46	46	+ 7	N	0	o	*	o	*	46	39	—
British Islands.	Sumburgh Head	30.45	44	N	0	b	30.42	?	47	47	+ 4	SSE	2	o	3	b	*	51	39	—
	Stornoway ...	30.33	50	N	0	b	30.29	− .08	40	40	− 9	W	2	o	2	b	2.0	55	37	—
	Wick	30.44	50	S	2	bc	30.37	− .07	41	40	− 9	S	4	bc	2	bc	*	52	39	—
	Nairn	30.40	48	N	0	c	30.35	− .05	43	41	− 7	N	0	f	0	c	*	53	38	0.01
	Aberdeen ...	30.44	50	E	3	og	30.43	+ .01	49	47	− 1	SE	3	og	2	og, d	oo	51	47	0.02
	Leith	30.37	54	N	0	f	30.39	+ .02	44	43	− 7	E	1	c	*	f	*	54	42	0.03
	Shields	30.35	49	N	0	f	30.44	+ .09	48	48	− 1	SSW	1	om	2	f	*	54	46	—
	Spurn Head ...	30.33	52	ESE	4	bw	30.42	+ .10	51	50	+ 3	SE	2	f	3	f, bw	*	52	43	0.01
	York	30.34	49	SE	1	f	30.44	+ .11	43	43	+ 3	S	1	f	*	f	0.0	51	38	0.01
	Loughborough ...	30.33	48	NE	1	f	30.42	+ .10	42	42	+ 6	ENE	1	ofw	*	of, f	*	50	36	0.01
	Ardrossan ...	30.31	53	NE	4	bm	30.36	+ .05	47	47	− 5	NE	3	of	2	bm	*	54	45	—
	Malin Head ...	30.24	53	ESE	5	om	30.26	− .01	51	51	− 2	SSE	2	bcm	1	cm, om	*	55	48	—
	Belmullet ...	30.20	59	ESE	1	c	30.20	− .05	54	52	0	ESE	1	b	*	c	*	59	50	—
	Donaghadee ...	30.25	55	E	5	c	30.35	+ .07	54	52	0	ESE	5	m	3	c	*	57	51	—
	Liverpool (Bidston)	30.29	51	ESE	3	c	30.35	+ .07	47	46	+ 1	ESE	3	c	?	f, c	*	55	46	—
	Holyhead ...	30.22	54	ENE	2	c	30.31	+ .09	52	51	+ 2	E	1	bcm	1	c	*	59	48	—
	Parsonstown ...	30.15	55	N	0	o	30.26	+ .07	48	47	− 7	N	0	o	*	o	0.7	59	48	—
	Valencia ...	30.06	59	NE	4	op	30.18	+ .08	55	53	− 1	SE	3	bc	3	op	0.0	61	54	0.11
	Roche's Point ..	30.11	57	ESE	5	or	30.24	+ .11	55	54	− 1	SE	2	bc	4	or, m	*	58	54	0.01
	Pembroke (St. Ann's Hd.)	30.15	56	SE	6	o	30.27	+ .12	54	53	0	SE	5	bw	4	o	0.5	57	53	0.01
	Scilly	29.99	58	SSE	4	o	30.18	+ .17	57	56	0	E	2	c	3	o	0.5	59	55	0.03
	Prawle Point ...	30.18	56	ENE	3	o	30.27	+ .13	57	56	+ 1	ENE	4	bc	2	o	*	57	55	—
	Jersey (St. Aubin's)	30.19	60	SE	3	bc	30.25	+ .10	53	51	− 4	NE	1	bcm	1	og, bcw	*	61	51	—
	Hurst Castle ...	30.24	56	E	2	cm	30.30	+ .10	53	52	− 1	ENE	3	bcm	2	cm	*	60	52	—
	Dungeness ...	30.28	57	ENE	2	b	30.34	+ .08	54	51	0	ENE	3	b	1	b	*	60	52	—
	North Foreland	30.32	56	E	2	b	30.38	+ .10	53	51	+ 1	E	2	b	2	b	*	58	51	0.02
	London (Brixton) ...	30.29	51	ESE	1	bcm	30.37	+ .09	45	45	0	E	1	fg	*	bm, bc, f	0.3	58	43	—
	Oxford	30.32	46	NE	2	f	30.38	+ .10	41	41	0	NNE	1	f	*	bc, of	*	59	39	—
	Cambridge ...	30.32	47	E	1	bm	30.42	+ .11	37	37	0	NE	1	f	*	bm	1.7	52	31	—
	Yarmouth ...	30.31	52	ESE	2	b	30.40	+ .10	49	48	− 3	E	4	bcmw	3	b	*	55	48	0.02
Germany & Holland.	Cuxhaven ...	30.44	37	N	1	bc	30.50	+ .13	40	40	+ 4	E	1	o	*	f, bc	*	41	34	—
	Berlin	30.43	35	NE	2	o	30.50	+ .12	37	36	+ 6	NE	3	o	*	o	*	43	34	—
	Wiesbaden ...	*	*	*	*	*	30.46	+ .07	34	33	− 4	E	1	o	*	*	*	39	34	—
	Munich	30.45	34	N	0	f	30.41	− .01	31	31	− 2	SE	1	f	*	f	*	36	31	—
	The Helder ...	30.39	48	N	0	b	30.46	+ .12	39	38	0	E	3	o	1	b	*	50	39	—
Belgium.	Brussels ...	*	*	*	*	*	30.41	+ .05	31	30	− 13	ENE	2	b	*	b	*	44	30	—
	Cape Gris Nez ...	30.28	50	SE	2	m	30.32	+ .08	45	40	− 2	ESE	1	m	1	m	*	61	39	—
	Paris	30.30	50	ENE	2	b	30.33	+ .10	35	35	− 7	NE	1	b	*	b	*	64	34	—
	Brest	30.08	58	ESE	2	c	30.15	+ .16	56	55	− 1	ENE	2	c	2	c	*	59	52	—
	Lorient	30.16	59	SE	3	o	30.16	+ .10	53	53	− 3	E	4	c	3	o	*	63	43	0.08
France &	Rochefort ...	30.17	61	SSE	2	o	30.15	+ .11	53	52	− 4	SE	3	bc	*	c, o	*	68	50	—
	Belfort	30.41	36	E	4	f	30.40	.00	31	31	− 1	ENE	5	f	*	f	*	49	30	—
	Lyons	30.34	52	N	0	b	30.35	− .01	37	37	− 6	N	1	b	*	b	*	63	37	—
	Nice	30.35	51	N	0	b	30.32	− .06	45	41	− 1	E	2	bc	1	b	*	61	43	—
	Perpignan ...	30.24	59	S	1	b	30.23	+ .01	65	65	+ 6	N	0	o	*	b	*	68	53	—
	Biarritz ...	30.10	62	E	3	o	30.02	+ .01	55	53	− 8	ESE	4	o	2	o	*	68	54	0.04
Peninsula.	Corunna ...																*			
	Lisbon	29.91	59	ESE	4	o	29.80	− .21	58	57	− 2	ESE	4	o	*	o	*	64	57	1.50
	Azores (P. Delgada)	30.12	61	N	3	o	30.01	− .19	60	60	− 1	SSW	4	m	3	o	*	64	57	0.43

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 4.4 hrs;

WEATHER CHARTS

FOR MONDAY, 1ST NOVEMBER, 1897.

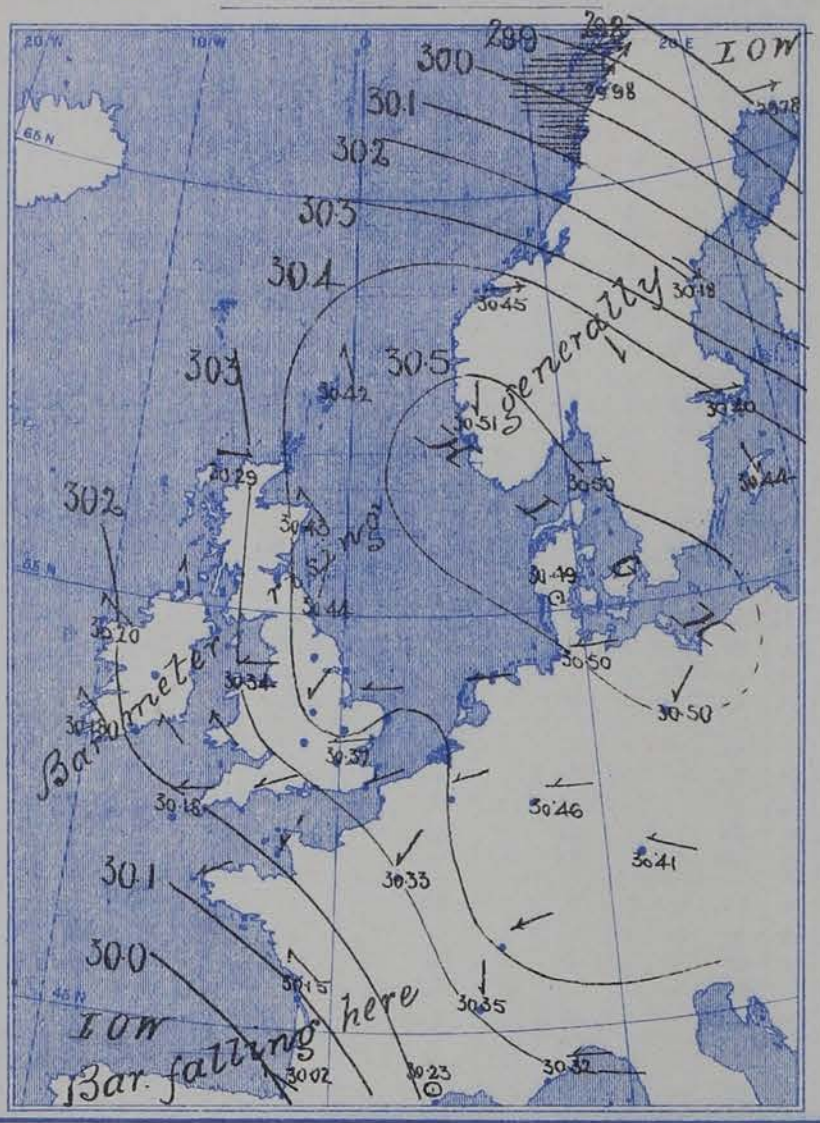
BAROMETER, WIND AND SEA.

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*

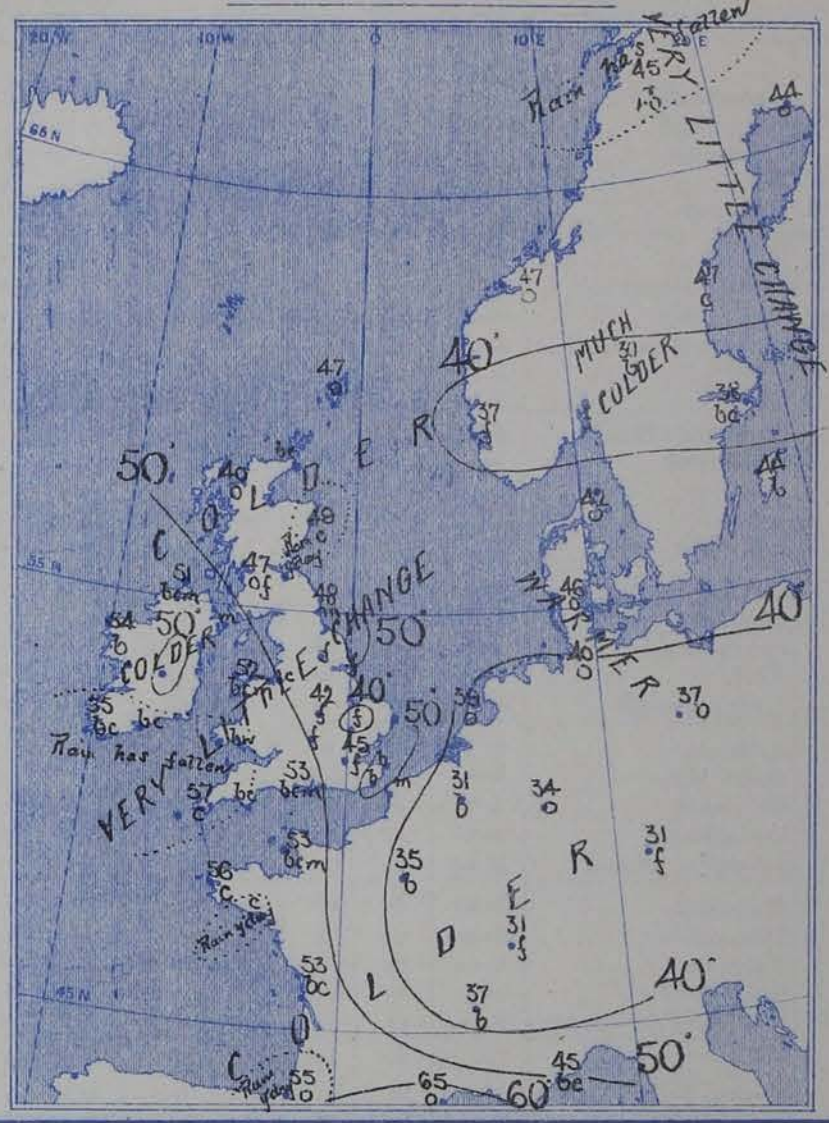


TEMPERATURE & WEATHER.

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 NOVEMBER.

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.						
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and more to 30.3 ins. in a large anticyclone covering Denmark and the Baltic, the North Sea and all the E^m. parts of Gt. Britain and France.
Lowest about 29.8 ins. both over Lapland and the southern parts of Portugal.
Gradients slight to moderate for E^ly. and SE^ly. winds over our Islands, France and Spain, rather steep for W^ly. winds over the N^rn. parts of Scandinavia.
Barometer falling over Spain and the SW. of France, rising elsewhere.

TEMPERATURE

Highest 65° at Perpignan, 56° to 57° at the mouth of the English Channel, 55° at Valencia (Ireland)
Lowest (1) 31° at Munich and Belfort, 35° at Paris; (2) 30° at Karlstad, 37° at Cambridge, and (3) 41° to 45° over the other inland parts of England.
It had been as low as 31° in the Screen at Cambridge during the night, 36° at Loughborough, 39° at Oxford.

WIND

Moderate to light from E. at the French stations and over the south of England, SE^ly. over Ireland, and S^th. to W^ly. at the Scotch stations. At the stations in the north of Scandinavia it was strong to a gale from W. and SW.

WEATHER

Fair as a whole, but very foggy over the inland parts of England and some of the inland parts of France and Germany and on the southwest coast of Norway.
Heavy rains have fallen at Lisbon on the one hand, and at Bodo on the other. Bright Sunshine recorded yesterday was 4.4 hrs. at Southport, more than 7 hrs. at Hastings — very little at the N^rn. stations or in Ireland.

SEA

Rough on the extreme NW^rn. coast of Norway, moderate on our SW^rn. coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change of weather for our Islands is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 2^ND. NOV. 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^th. and SE^ly. winds, light or moderate; fair generally, but foggy in places.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	E^ly. winds, light; fair generally, but cold and foggy at night.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	E^ly. winds, light; fair generally, but foggy in places.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE^ly. winds, moderate; fair generally, but some mist or fog.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·44	51	49	NNW	2	c	1
Sumburgh Head							
Stornoway	30·35	54	53	ESE	2	6	1
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·25	55	55	ESE	5	cm	2
Belmullet	30·20	59	55	ESE	1	c	*
Holyhead							
Valencia							
Scilly							
Jersey	30·17	59	56	ESE	4	09	3
Hurst Castle ...							
Dungeness ...	30·26	59	54	ENE	2	6	2
North Foreland	30·30	57	55	E	2	6	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·14	64	60	SSE	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 24TH TO 30TH OCT. 1891.

The distribution of pressure and the winds observed over our Islands and NW. Europe during this week have been mainly anticyclonic – the centre of the system, in which the barometer at one time rose to 30.6 ins. and more, having lie located over the countries lying to the E^wd. of the North Sea. Quiet foggy weather has therefore been prevalent, with cold foggy nights, but on some occasions very mild days – the maximum temperature in the shade having been as high as 66° in London both on Friday and Saturday. On other days the thermometer was low over England all day.

The Irish stations were, towards the end of the week, affected by some shallow depressions which skirted the extreme W. parts of the country – causing strong SE^ly to S^ly winds and gales, with some rain and a rough sea. These disturbances, however, were dispersing when the week closed, and a new anticyclonic system was approaching our NW^n districts from the Atlantic.

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 Tuesday 2nd November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29·86	45	N	4	bc	30·16	+ ·38	35	33	− 9	Z	0	b	*	bc	*	50	35	—
	Hernösand ...	30·27	45	NW	4	b	30·32	+ ·14	45	41	− 2	WNW	4	b	*	b	*	48	41	—
	Stockholm ...	30·38	39	W	2	b	30·40	·00	32	31	− 6	W	2	b	*	b	*	46	?	—
	Wisby	30·43	46	NW	4	b	30·40	− ·04	42	41	− 2	NW	6	c	*	b	*	46	37	—
	Karlstad ...	30·47	39	NW	2	o	30·50	+ ·04	31	30	+ 1	NNW	2	f	*	o	*	*	*	—
	Bodö	30·15	45	WSW	8	r	30·31	+ ·33	45	45	0	SW	6	r	4	r	*	46	45	0·91
	Christiansund ...	30·49	48	WSW	3	bc	30·49	+ ·04	49	47	+ 2	WSW	3	o	4	bc	*	49	46	—
	Skudesnaes ...	30·52	38	N	1	b	30·51	·00	40	40	+ 3	Z	o	o	1	f.b.f	*	41	36	*
	Færder (Christiania Fjord)	30·47	45	SW	3	o	30·49	+ ·02	35	35	− 4	N	2	f	1	o	*	45	35	—
	Skagen (The Scaw)	30·49	45	W	1	o	30·48	− ·02	45	43	+ 3	Z	o	o	o	o	*	46	41	—
	Fanö	30·53	44	Z	o	o	30·51	+ ·02	43	42	− 3	SE	1	o	*	o	*	46	43	—
British Islands	Sumburgh Head	30·39	49	S	2	o	30·40	− ·02	48	47	+ 1	Z	a	o	2	c.o	*	51	45	—
	Stornoway ...	30·34	48	S	2	o	30·34	+ ·05	49	49	+ 9	Z	o	o	o	c,o	5·3	55	37	0·01
	Wick	30·41	49	NW	1	bc	30·40	+ ·03	48	47	+ 7	S	2	bc	2	bc	*	55	36	—
	Nairn	30·39	44	Z	o	b	30·38	+ ·03	36	36	− 7	SE	1	m	1	b	*	54	31	0·01
	Aberdeen ...	30·44	49	SSW	2	og	30·46	+ ·03	46	44	− 3	SW	2	omg	2	og	0·0	51	45	—
	Leith	30·41	48	E	1	b	30·43	+ ·04	40	39	− 4	ENE	1	c	*	b	*	53	39	—
	Shields	30·46	48	SSW	2	f	30·44	·00	50	48	+ 2	SE	2	o	2	f	*	50	45	—
	Spurn Head ...	30·42	51	ESE	3	b	30·38	− ·04	48	47	− 3	ESE	4	b	4	b	*	51	47	—
	York	30·43	47	S	1	o	30·41	− ·03	50	49	+ 7	SSE	1	o	*	f,o	0·0	50	41	0·02
	Loughborough ...	30·42	46	ENE	3	o	30·38	− ·04	45	43	+ 3	ENE	3	om	*	of,om	*	48	42	—
	Ardrossan ...	30·39	50	NE	3	cf	30·38	+ ·02	44	44	− 3	NE	3	bf	2	bc, cf	*	52	43	—
	Malin Head ...	30·32	52	SSE	2	cm	30·31	+ ·05	47	47	− 4	SSE	3	bcm	1	cm	*	57	47	—
	Belmullet ...	30·29	55	ESE	1	b	30·25	+ ·05	50	48	− 4	E	1	c	*	b	*	60	48	—
	Donaghadee ...	30·37	53	E	2	bc	30·37	+ ·02	50	49	− 4	ESE	4	c	2	bc	*	56	49	—
	Liverpool (Bidston)	30·39	46	ESE	2	b	30·36	+ ·01	45	43	− 2	ESE	2	m	?	bm	*	57	41	—
	Holyhead ...	30·30	51	NE	1	b	30·27	− ·04	48	45	− 4	ENE	4	b	3	bcm, b	*	60	45	—
	Parsonstown ...	30·27	54	SE	1	b	30·25	− ·01	46	46	− 2	NE	1	o	*	o.b	0·8	60	42	—
	Valencia ...	30·22	57	ESE	2	c	30·16	− ·02	51	46	− 4	E	1	bm	2	c	3·8	60	49	0·03
	Roche's Point ...	30·26	55	ESE	3	c	30·22	− ·02	51	49	− 4	ESE	4	bcm	4	c	*	58	50	—
	Pembroke (St. Ann's Hd.)	30·25	56	ESE	4	b	30·22	− ·05	45	43	− 9	E	3	bm	3	b	2·7	58	43	—
	Scilly	30·13	57	E	4	c	30·13	− ·05	52	51	− 3	ENE	6	c	2	c	0·6	60	51	—
	Prawle Point ...	30·21	54	ENE	5	bc	30·17	− ·10	48	47	− 9	ENE	7	o	5	bc	*	60	47	—
	Jersey (St. Aubin's)	30·18	55	ENE	5	bcm	30·14	− ·11	46	45	− 7	ENE	5	bc	4	b, bcm, fw	*	60	44	—
	Hurst Castle ...	30·26	53	E	3	bm	30·24	− ·06	46	44	− 7	NE	5	cm	3	bcm, bm	*	59	45	—
	Dungeness ...	30·28	49	NE	5	bc	30·27	− ·07	43	43	− 11	ENE	5	c	4	b, bc	*	56	43	—
	North Foreland	30·38	48	ENE	3	bc	30·32	− ·06	44	42	− 9	E	4	c	4	c, bc	*	54	42	—
	London (Brixton) ...	30·36	49	ENE	3	bc	30·31	− ·06	45	43	0	ENE	3	o	*	bm, odp	0·6	58	44	0·01
	Oxford	30·36	46	NNE	2	o	30·33	− ·05	42	40	+ 1	ENE	3	o	*	b, f, o	*	57	41	—
	Cambridge ...	30·39	44	E	1	b	30·36	− ·06	44	42	+ 7	E	1	om	*	b	3·4	52	35	—
	Yarmouth ...	30·39	48	ENE	4	c	30·36	− ·04	46	44	− 3	E	4	c	4	c	*	50	44	—
Germany & Holland	Cuxhaven ...	30·51	41	E	1	o	30·50	·00	38	38	− 2	SE	2	o	*	o	*	41	37	—
	Berlin	30·54	40	Z	o	o	30·52	+ ·02	40	38	+ 3	E	2	b	*	o	*	?	37	—
	Wiesbaden ...	*	*	*	*	*	30·43	− ·03	35	33	+ 1	E	2	o	*	*	*	37	34	—
	Munich	30·41	30	E	3	f	30·38	− ·03	32	31	+ 1	E	4	o	*	f	*	34	28	—
	The Helder ...	30·45	39	E	4	m	30·43	− ·03	35	35	− 4	E	4	m	1	m	*	39	35	—
Belgium.	Brussels ...	*	*	*	*	*	30·35	− ·06	30	30	− 1	ENE	3	bc	*	f	*	38	29	—
	Cape Gris Nez ...	30·28	41	E	5	f	30·26	− ·06	32	32	− 13	E	3	f	2	f	*	61	30	—
	Paris	30·26	41	NE	2	bc	30·23	− ·10	32	31	− 3	ENE	2	b	*	bc	*	59	31	—
	Brest	30·09	57	ESE	2	bc	30·03	− ·12	48	47	− 8	E	3	b	2	bc	*	66	43	—
	Lorient	30·07	57	ENE	4	bc	30·03	− ·13	46	45	− 7	ENE	5	bc	4	bc	*	64	43	—
France	Rochefort ...	30·02	59	SE	2	c	30·00	− ·15	50	48	− 3	E	4	bc	*	c	*	70	48	—
	Belfort	30·31	32	ENE	7	f	30·28	− ·12	30	30	− 1	NE	7	f	*	f	*	36	30	—
	Lyons	30·23	46	WNW	1	b	30·23	− ·12	32	32	− 5	NE	1	f	*	b	*	56	32	—
	Nice	30·22	51	Z	o	b	30·19	− ·13	45	44	0	E	5	bc	3	b	*	61	45	—
	Perpignan ...	30·12	60	SSE	2	o	30·05	− ·18	55	55	− 10	Z	o	o	*	o	*	65	54	—
	Biarritz ...	29·92	64	E	3	o	29·90	− ·12	69	55	+ 4	ESE	3	o	2	o	*	64	54	—
Peninsula.	Corunna ...																*			
	Lisbon	29·73	60	SSE	4	o	29·75	− ·05	59	58	+ 1	ESE	4	o	*	o	*	64	57	2·68
	Azores (P. Delgada)	29·95	64	W	1	o	29·92	− ·09	64	63	+ 4	W	3	o	3	o	*	68	63	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 4·8 hrs;

WEATHER CHARTS

FOR TUESDAY, 2nd NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

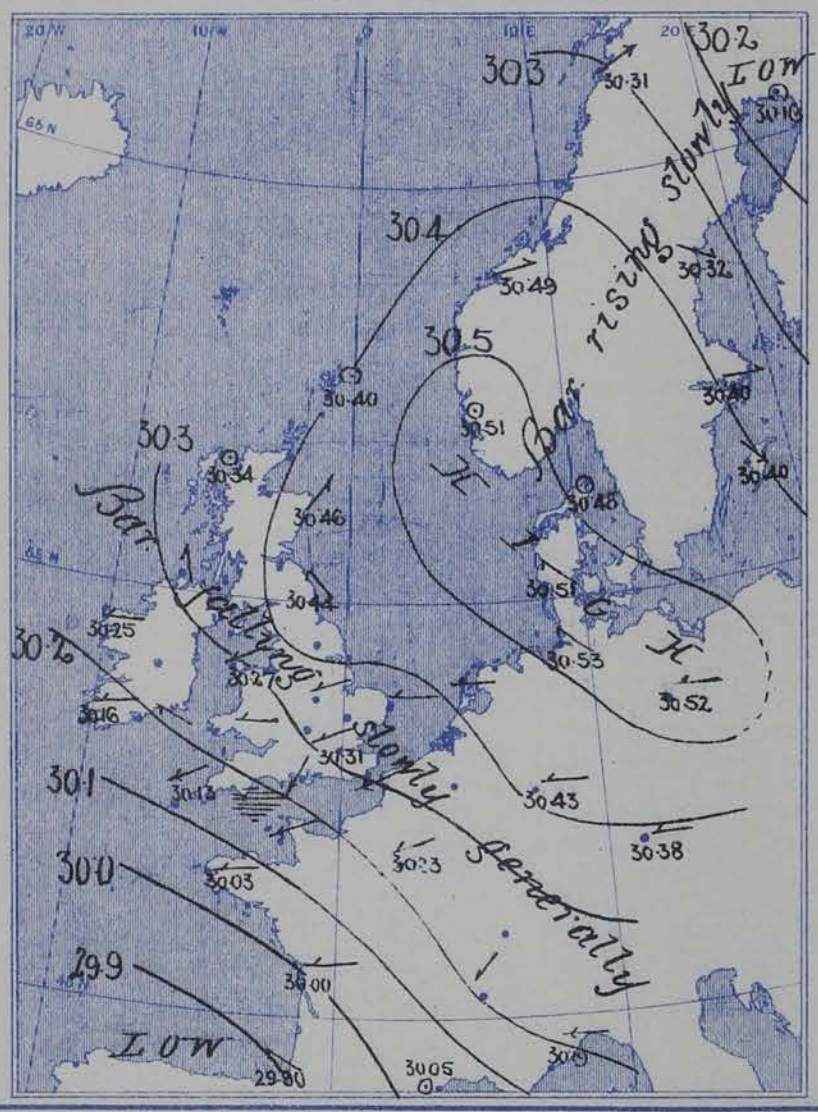
BAROMETER—Isobars are drawn for each tenth of an inch.

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

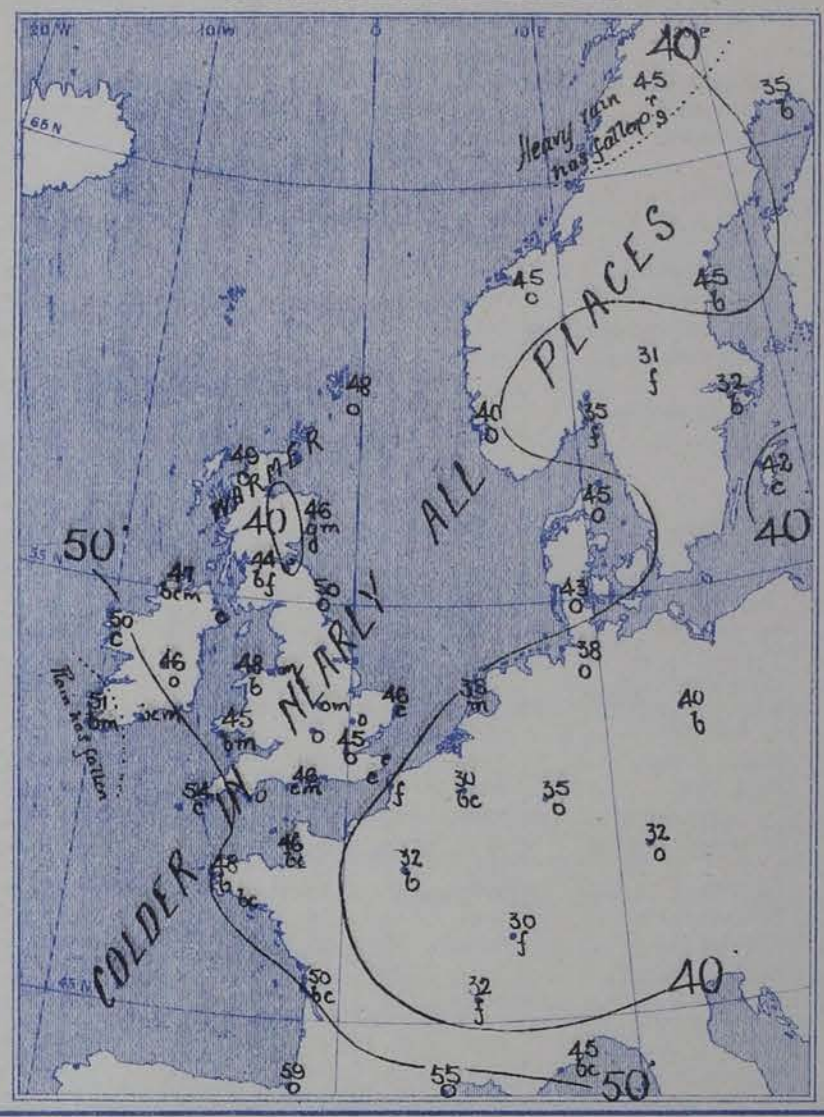


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 ins. and upwards over Denmark, N. Germany and the eastern parts of the North Sea; 30·0 ins. and upwards in an anticyclone extending from the northern and central parts of the Continent over all the more northern and eastern parts of our islands.
Lowest 29·8 ins. and less in a depression lying off the Portuguese coasts.
Gradients slight. Barometer inclined to fall in most places, but rising a little at some of the Scandinavian stations.

TEMPERATURE — Highest 59° at Biarritz and Lisbon, 55° at Perpignan, 54° at Scilly, 51° at Valencia (Ireland) and Roche's Pt., and 50° at Shields, York and Belmullet.
Lowest (1) 30° at Brussels and Belfort, and 32° at Cape Gris Nez, Paris, Lyons and Munich; (2) 31° at Karlstad, and 32° at Stockholm.
During yesterday the thermometer rose to between 55° and 60° at most of our W. and N. stations; in the N. and E. of England, however, it scarcely exceeded 50°.

WIND — E. ¼ or NE. ¼ over all the more southern parts of our islands as well as in France, Germany and the Netherlands; strong in force over the western part of the English Channel & also at Belfort. Light from the S. or SE. in the north of our islands; SW. ¼ in the west of Norway; W. ¼ or NW. ¼ in Sweden; calm or variable in Denmark and the south of Norway.

WEATHER — Fair or fine over western Europe as a whole, but dull at several of our own northern and eastern stations, as well as in Norway and Denmark, with rain at Bodö.
Fog prevailed at Androssan, as well as at Karlstad and several stations in the E. and central parts of France. Beyond a few slight measurements in the gauge, due probably to wet fog, the weather over our islands has remained very dry. Heavy rain has, however, fallen at Bodö and also at Lisbon.
Lunar halos were seen last evening at some of the English Channel stations.

SEA — Rather rough at Prawle Pt. and moderate on our S. and E. coasts generally, as well as off the W. of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any very decided change in the weather, but a further reduction in temperature is probable in most districts.

FORECASTS

For the 24 hours ending at NOON on 3RD NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. ¼ winds, light; fair generally, but some mist or fog.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E. ¼ and SE. ¼ winds, moderate; fair generally, colder.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	NE. ¼ winds, light or moderate; fair generally, colder.
5	ENGLAND SOUTH	E. ¼ and NE. ¼ winds moderate inland, strong on coast; fair generally, colder.
6	SCOTLAND WEST	E. ¼ and NE. ¼ winds, light or moderate; fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as No. 5.
9	IRELAND NORTH	E. ¼ and SE. ¼ winds, moderate; fair generally.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·52	41	41	Z	0	f	1
Sumburgh Head	30·39	48	47	SSE	2	c	3
Stornoway	30·31	55	54	S	3	c	4
Aberdeen	30·43	50	48	SSE	3	og	4
Shields	30·44	47	47	SSW	2	f	2
Ardrossan	30·36	52	51	NE	3	bc	2
Malin Head ...	30·29	56	55	SSE	3	cm	1
Belmullet	30·26	60	55	SSE	1	b	*
Holyhead	30·32	59	56	Z	0	bcm	0

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·20	60	55	ESE	2	c	3
Scilly	30·16	58	57	E	4	c	2
Jersey	30·18	60	56	ENE	5	b	4
Hurst Castle ...	30·27	59	50	E	3	bcm	3
Dungeness ...	30·30	54	51	ENE	4	b	3
North Foreland	30·37	48	47	ENE	3	c	3
London (Westminster)	30·34	57	52	ENE	1	bm	*
Yarmouth ...	30·40	50	48	ENE	4	c	3
Rochefort ...	30·06	70	62	ESE	2	bc	*

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 Wednesday 3rd November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	30·36	30	Z	0	b	30·34	+ ·18	39	37	+ 4	Z	0	o	*	b	*	46	27	—
	Hernösand ...	30·44	37	Z	0	b	30·46	+ ·14	33	32	— 12	NW	2	b	*	b	*	50	33	—
	Stockholm ...	30·47	37	Z	0	b	30·52	+ ·12	33	33	+ 1	NW	2	f	*	b	*	45	32	—
	Wisby	30·43	44	NNW	4	b	30·48	+ ·08	44	42	+ 2	ENE	2	o	*	b	*	45	39	—
	Karlstad ...	30·50	34	NW	1	b	30·55	+ ·05	32	31	+ 1	N	2	b	*	b	*	*	*	—
	Bodö	30·41	45	SW	4	o	30·34	+ ·03	46	45	+ 1	SSW	6	r	3	o	*	46	41	0·24
	Christiansund ...	30·49	50	Z	0	o	30·52	+ ·03	49	48	0	Z	0	o	2	o	*	50	48	—
	Skudesnaes ...	30·50	42	Z	0	bc	30·54	+ ·03	43	42	+ 3	N	1	o	1	o.bc	*	48	36	*
	Færder (Christiania Fjord)	30·47	40	N	1	b	30·53	+ ·04	36	36	+ 1	NNE	1	f	1	b	*	41	35	—
	Skagen (The Scaw)	30·50	44	NE	1	o	30·52	+ ·04	44	43	— 1	E	1	bc	0	o	*	46	39	—
	Fanö	30·45	44	SSW	2	o	30·45	— ·06	43	42	0	SSE	1	o	*	o	*	46	41	—
	Sumburgh Head	30·40	47	S	1	o	30·37	— ·03	47	47	— 1	S	2	o	3	o	*	49	45	—
	Stornoway ...	30·30	49	Z	0	bcm	30·27	— ·07	38	38	— 11	W	2	f	2	c.bcm	4·9	58	35	—
	Wick	30·36	48	S	3	o	30·32	— ·08	47	45	— 1	S	4	c	2	o	*	50	43	—
	Nairn	30·38	44	Z	0	f	30·34	— ·04	35	35	— 1	Z	0	f	1	f	*	50	33	0·02
	Aberdeen ...	30·43	48	S	2	og	30·40	— ·06	47	44	+ 1	SSW	3	og	2	ogmq	0·0	49	46	—
British Islands.	Leith	30·40	46	E	1	o	30·38	— ·05	45	43	+ 5	E	2	o	*	o	*	49	39	—
	Shields	30·43	49	ESE	3	o	30·40	— ·04	47	46	— 3	ESE	2	o	2	o2l.o	*	50	46	—
	Spurn Head ...	30·36	48	E	5	o	30·33	— ·05	48	47	0	ENE	4	o	4	o	*	49	42	—
	York	30·39	48	NE	2	o	30·37	— ·04	48	46	— 2	ENE	1	o	*	o	0·0	51	46	—
	Loughborough ...	30·35	46	NE	3	o	30·34	— ·04	45	43	0	NE	3	om	*	c.bc.om	*	51	44	—
	Ardrossan ...	30·36	47	NE	3	bf	30·32	— ·06	43	43	— 1	NE	4	bfw	2	bf	*	47	40	—
	Malin Head ...	30·26	49	SSE	5	bcm	30·21	— ·10	45	44	— 2	ESE	5	bw	3	bcm	*	52	44	—
	Belmullet ...	30·20	49	E	1	b	30·16	— ·09	46	44	— 4	ESE	2	b	*	b	*	?58	42	—
	Donaghadee ...	30·33	52	ESE	5	c	30·29	— ·08	49	48	— 1	E	5	bc	3	c	*	53	48	—
	Liverpool (Bidston)	30·33	46	E	2	b	30·33	— ·03	40	39	— 5	ESE	1	m	?	bm	*	52	39	—
	Holyhead ...	30·24	49	E	2	b	30·23	— ·04	45	43	— 3	ENE	3	b	2	b	*	53	43	—
	Parsonstown ...	30·21	48	Z	0	b	30·19	— ·06	38	37	— 8	Z	0	b	*	b	6·8	56	37	—
	Valencia ...	30·12	51	ESE	5	bm	30·09	— ·07	48	45	— 3	E	1	bcw	2	b.bm	8·1	58	38	—
	Roche's Point ...	30·17	51	ESE	4	b	30·14	— ·08	52	49	+ 1	ESE	5	cw	4	b	*	53	48	—
	Pembroke (St. Ann's Hd.)	30·17	48	E	3	b	30·17	— ·05	43	42	— 2	E	4	bw	3	b	7·8	53	41	—
	Scilly	30·05	54	ENE	6	c	30·03	— ·10	55	52	+ 1	E	6	c	4	c	2·6	55	51	—
	Prawle Point ...	30·13	51	ENE	7	c	30·12	— ·05	46	45	— 2	ENE	7	c	6	c	*	52	45	—
	Jersey (St. Aubin's)	30·12	48	ENE	5	bm	30·10	— ·04	44	43	— 2	E	5	bmw	4	b	*	52	43	—
	Hurst Castle ...	30·20	49	NE	3	bm	30·19	— ·05	45	43	— 1	NE	4	bcw	3	bm	*	54	44	—
	Dungeness ...	30·21	50	ENE	5	b	30·20	— ·07	44	42	+ 1	ENE	4	c	3	b	*	52	42	—
	North Foreland	30·30	48	E	3	c	30·25	— ·07	46	44	+ 2	E	4	c	3	c	*	48	42	—
	London (Brixton) ...	30·28	48	ENE	2	o	30·27	— ·04	46	43	+ 1	ENE	3	c	*	bc.og	1·3	51	44	—
	Oxford	30·30	44	ENE	3	o	30·29	— ·04	42	40	0	ENE	3	o	*	o.c	*	51	42	—
	Cambridge ...	30·33	45	E	3	o	30·31	— ·05	44	42	0	ENE	2	om	*	b.o	5·1	52	42	—
	Yarmouth ...	30·32	46	ENE	4	c	30·31	— ·05	45	44	— 1	ENE	4	cg	4	c	*	48	44	—
Germany & Holland.	Cuxhaven ...	30·47	37	ESE	3	o	30·42	— ·08	37	37	— 1	E	3	o	*	o	*	41	36	—
	Berlin	30·48	39	ENE	2	o	30·45	— ·07	37	35	— 3	ESE	2	o	*	o	*	40	36	—
	Wiesbaden ...	*	*	*	*	*	30·32	— ·11	28	27	— 7	NE	2	f	*	*	*	41	27	—
	Munich	30·30	32	E	3	o	30·26	— ·12	30	30	— 2	E	4	o	*	o	*	36	30	—
	The Helder ...	30·39	37	E	2	m	30·35	— ·08	35	35	0	E	3	m	2	m	*	37	35	—
Belgium.	Brussels ...	*	*	*	*	*	30·28	— ·07	28	28	— 2	NE	1	f	*	m	*	47	26	—
	Cape Gris Nez ...	30·23	42	E	4	m	30·21	— ·05	28	28	— 4	E	2	m	2	m	*	46	27	—
	Paris	30·19	40	NNE	2	bc	30·16	— ·07	29	29	— 3	NE	3	b	*	bc	*	51	28	—
	Brest	30·05	53	ENE	2	bc	30·01	— ·02	41	39	— 7	ENE	2	b	2	bc	*	63	37	—
	Lorient	30·04	52	ENE	5	b	29·99	— ·04	40	40	— 6	ENE	5	b	4	b	*	63	37	—
France &	Rochefort ...	29·97	56	E	3	b	29·94	— ·06	46	44	— 4	ESE	4	c	*	bc.b	*	68	43	—
	Belfort	30·25	33	E	4	m	30·25	— ·03	32	31	+ 2	NE	4	m	*	m	*	38	30	—
	Lyons	30·19	38	N	1	bc	30·17	— ·06	32	?	0	ENE	1	b	*	bc	*	45	32	0·16
	Nice	30·15	50	Z	0	b	30·12	— ·07	43	38	— 2	E	2	b	6	b	*	59	43	—
	Perpignan ...	30·10	62	E	3	r	30·00	— ·05	57	56	+ 2	E	3	r	*	r	*	62	54	0·87
	Biarritz ...	29·89	67	E	2	o	29·82	— ·08	55	50	— 4	E	4	o	1	o	*	72	54	—
Peninsula.	Corunna ...																*			
	Lisbon	29·74	60	SSE	4	o	29·75	·00	58	58	— 1	SSE	3	o	*	o	*	64	57	—
	Azores (P. Delgada)	29·78	65	SSW	5	o	29·69	— ·23	59	55	— 5	NW	3	c	3	o	*	68	57	0·23

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 WEDNESDAY, 3RD NOVEMBER, 1897.

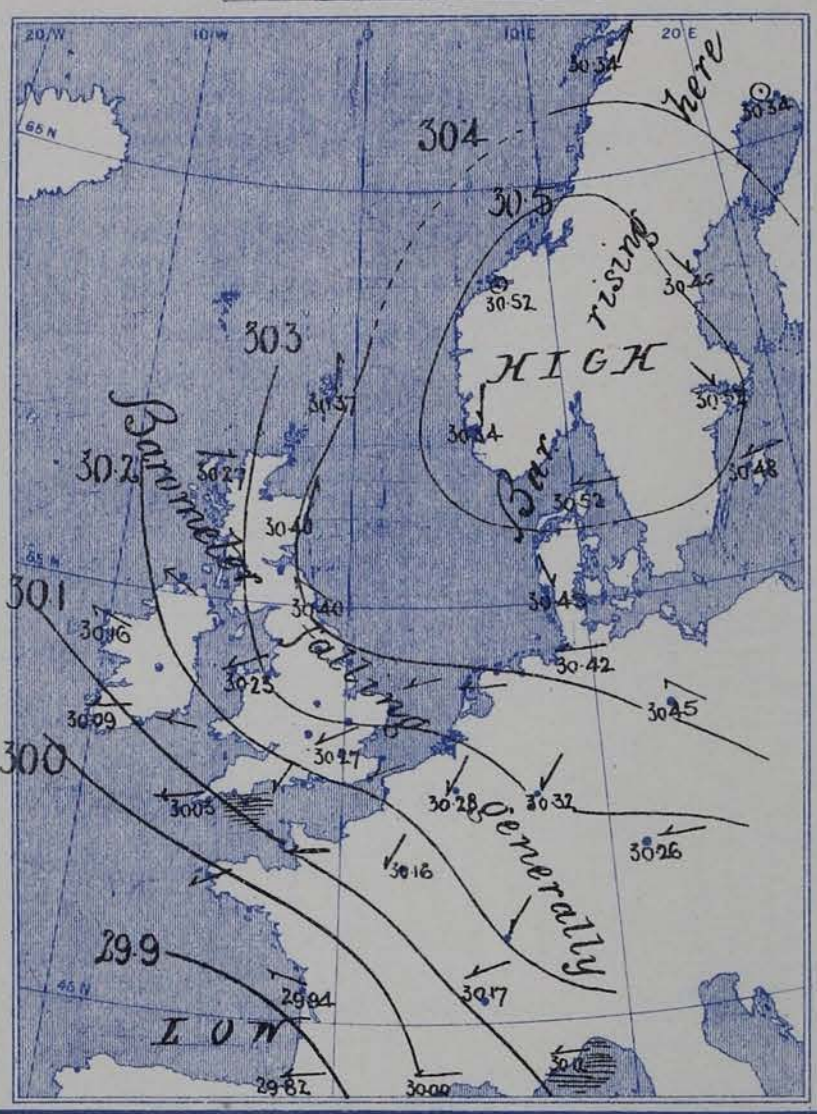
BAROMETER, WIND AND SEA.

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* ▦

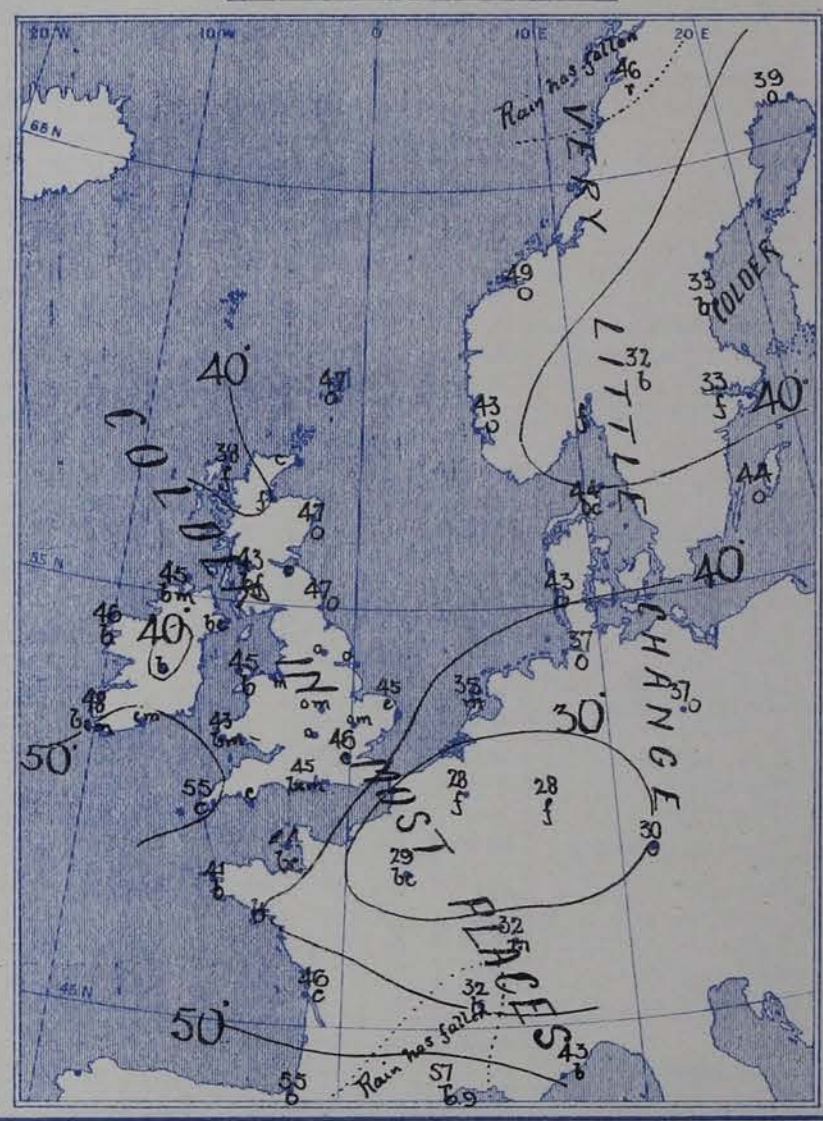


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	35 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and upwards over the central and southern parts of Scandinavia; 30.2 ins. and upwards in an anticyclone extending from N^rn. and central Europe over all the more N^rn. and E^rn. parts of our islands.

Lowest 29.8 ins. and less in a shallow depression over the Spanish peninsula.

Gradients slight generally. Barometer falling slowly at all but the Scandinavian stations.

TEMPERATURE

Highest (1) 58° at Lisbon, 57° at Perpignan, 55° at Scilly and Biarritz, 52° at Rocks Pt.; (2) 49° at Christiansund.

Lowest (1) 28° at Cape Gris Nez, Brussels and Wiesbaden, 29° at Paris, and 30° at Munich; (2) 32° at Karlstad, and 33° at Hernösand and Stockholm; (3) 35° at Näun.

The maxima registered yesterday were below 50° at several of our northern, eastern and southeastern stations, and below 55° in most other parts of the Kingdom. At Stornoway, Belmullet and Valencia (Ireland), however, the thermometer rose to 58°.

WIND

E^ly. over the greater part of our islands and also over France, Germany, Denmark and the Netherlands; light to fresh in force generally, but strong in the W^rn. parts of the English Channel. Light to moderate from the S^th. in the northeast of Scotland; calm or light from the N^th. over the greater part of Scandinavia.

WEATHER

Fair or fine over northwestern Europe generally, but dull in the central and northeastern parts of Gt. Britain, as well as in the west of Norway, with rain at Bodö.

Fog was reported at Brussels and Wiesbaden, and rain at Perpignan.

With the exception of the places just quoted, at which rain is now falling, the weather over our area has remained dry throughout the whole of the past 24 hours.

SEA

Moderate to smooth generally, but rough at Prawle Pt. and also at Nice.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 4^TH. NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^ly. winds, light or moderate, cloudy, some mist or fog.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	E^ly. winds moderate or fresh; fair, cold.
6	SCOTLAND WEST	E^ly. and NE^ly. winds light; fair generally, but some mist or fog.
7	ENGLAND N.W.	Same as No. 5.
8	ENGLAND S.W.	E^ly. winds, strong on coast; fair generally.
9	IRELAND NORTH	E^ly. and SE^ly. winds, fresh or strong; fair generally.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·51	48	46	NNW	4	o	1
Sumburgh Head	30·42	47	45	S	1	o	3
Stornoway	30·31	58	57	L	o	c	0
Aberdeen	30·43	49	47	SSW	1	ogm	1
Shields	30·44	50	48	ESE	3	od	2
Ardrossan	30·34	47	46	NE	4	bf	2
Malin Head ...	30·29	51	50	SSE	4	bcm	2
Belmullet	30·22	53	50	ESE	1	b	*
Holyhead	30·26	53	49	E	4	b	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·13	57	50	E	2	bm	2
Scilly	30·13	54	51	E	6	c	3
Jersey	30·11	51	48	ENE	6	b	4
Hurst Castle ...	30·20	54	48	ENE	4	bm	3
Dungeness ...	30·24	49	46	ENE	6	b	5
North Foreland	30·30	47	45	E	3	c	3
London (Westminster)	30·28	51	47	ENE	3	b	*
Yarmouth ...	30·33	48	46	ENE	4	c	4
Rochefort ...	2997	68	60	SE	4	bc	*

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

Weather in morning fair or fine over W.^m and N.^m Europe generally, as well as over Italy and the Adriatic, but dull at several of our own N.^rn and E.^rn stations, as well as in Norway and Denmark, with rain at Bodø. Dull over Germany, Austria and the S. of Russia, as well as over the Spanish peninsula; foggy over central France. Rain falling later at some of the southern French stations, - heavily at Perpignan, but weather remaining very dry over W.^rn Europe generally.

Temperature fallen in most countries, but risen a little in Germany and Italy. Morning readings highest 69° at Nemours, 68° at Algiers, and 64° at Bilbao, Oran and Cagliari; above 55° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest (1) 30° at Brussels and Belfort, and 32° at Cape Gris Nez, Paris, Lyons and Munich; (2) 30° at Kiev and Kharkov; (3) 31° at Karlstad, and 32° at Stockholm; (3) 36° at Nairn. Daily maxima below 50° on several parts of our own N.^rn, E.^rn and S.E.^rn coasts, and below 55° in most other parts of the Kingdom, but thermometer reaching 58° at Stornoway, Belmullet and Valencia (Ireland). Exceeding 60° in the west and south of France, and reaching 72° at Biarritz.

Wind E.^rly or N.E.^rly over the greater part of central and southern Europe, and also over all the more southern parts of our Islands; light or moderate in force generally, but strong over the western half of the English Channel as well as at Belfort. Light from the S.^rn or S.E.^rn over the northern parts of our island; moderate to strong from the S.W.^rn in the west of Norway and from the N.W.^rn or N.^rn over Sweden and Russia. Variable at the Mediterranean stations. No important change occurring over western Europe during day.

Barometer highest 30.5 ins and upwards over Denmark, the extreme S. of Norway and the N.^rn and E.^rn parts of Germany, 30.2 ins. and upwards in an anticyclone embracing all but the N.E.^rn and S.E.^rn portions of Europe. Lowest 29.6 ins. and less in a depression over N.^rn Russia, 29.8 ins. and less in a shallow disturbance off the Portuguese coasts. No decided change occurring later, but barometer falling slowly over W.^rn 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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DAILY WEATHER REPORT

for 8 a.m. on THURSDAY NOVEMBER 4TH 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	30·70	38	x	0	c	30·19	−·15	39	38	0	x	0	b	*	c	*	41	25	—
	Hernösand ...	30·61	37	x	0	b	30·47	+·01	36	36	+3	x	0	b	*	b	*	48	30	—
	Stockholm ...	30·55	35	x	0	f	30·59	+·07	32	32	−1	SW	2	b	*	f	*	39	32	—
	Wisby	30·59	46	NNE	4	o	30·61	+·13	44	42	0	NNW	4	o	*	o	*	46	41	—
	Karlstad ...	30·58	41	N	2	0	30·59	+·04	40	?	+8	NNW	2	f	*	o	*	*	*	—
	Bodö	30·30	49	SW	7	r	30·30	−·04	47	46	+1	WSW	6	r	4	r	*	49	45	0·12
	Christiansund ...	30·52	46	z	0	c	30·50	−·02	45	44	−4	ESE	1	bc	2	b.c	*	50	45	—
	Skudesnaes ...	30·55	44	E	1	0	30·53	−·01	43	41	0	SSE	4	0	2	0	*	45	39	*
	Færder (Christiania Fjord)	30·58	40	NE	2	m	30·59	+·06	38	37	+2	N	2	0	1	m	*	43	36	—
	Skagen (The Scaw)	30·58	42	E	1	0	30·58	+·06	42	40	−2	SE	1	0	0	0	*	45	39	—
	Fanö	30·47	42	E	4	0	30·44	−·01	42	40	−1	E	4	0	*	0	*	45	41	—
British Islands.	Sumburgh Head	30·40	47	S	2	0	30·34	−·03	47	45	0	SE	3	0	4	0	*	49	44	—
	Stornoway ...	30·26	44	z	0	f	30·25	−·02	34	34	−4	W	2	bf	2	b.f	6·3	39	32	0·02
	Wick	30·31	47	S	4	fb	30·33	+·01	46	45	−1	S	5	c	4	b	*	51	45	—
	Nairn	30·32	37	z	0	f	30·31	−·03	30	30	−5	z	0	f	1	f	*	39	27	—
	Aberdeen ...	30·39	47	SSE	4	ogg	30·36	−·04	47	45	0	S	1	omg	2	og.ogg	0·0	48	46	—
	Leith	30·36	46	E	3	b	30·34	−·04	47	45	+2	E	2	od	*	b	*	50	41	—
	Shields	30·38	48	ESE	2	0	30·33	−·07	48	46	+1	E	2	0	3	0	*	49	46	—
	Spurn Head ...	30·29	49	E	4	0	30·26	−·07	48	46	0	ENE	4	0	4	0	*	49	48	—
	York	30·33	48	NE	2	0	30·30	−·07	48	46	0	NNE	1	0	*	0	0·0	49	46	—
	Loughborough ...	30·29	47	ENE	3	0	30·27	−·07	46	43	+1	NE	2	om	*	om	*	48	45	—
	Ardrossan ...	30·31	49	NE	4	bf	30·31	−·01	44	43	+1	E	2	om	2	bf	*	49	39	—
	Malin Head ...	30·22	49	ESE	3	bm	30·22	+·01	43	43	−2	ESE	3	bm	1	b.bm	*	53	42	—
	Belmullet ...	30·15	51	ESE	1	b	30·27	+·11	43	42	−3	ESE	1	b	*	b	*	56	40	—
	Donaghadee ...	30·28	51	ESE	4	b	30·29	0·0	48	46	−1	E	4	c	2	b	*	53	46	—
	Liverpool (Bidston)	30·28	44	E	3	bm	30·27	−·06	43	41	+3	E	1	m	?	bm	*	50	40	—
	Holyhead ...	30·20	48	E	4	b	30·21	−·02	44	42	−1	E	3	b	2	bc.b	*	54	42	—
	Parsonstown ...	30·15	50	SE	1	b	30·22	+·03	46	36	−2	z	0	f	*	b	8·0	58	36	—
	Valencia ...	30·07	50	NNE	1	bm	30·16	+·07	50	47	+2	E	2	cm	3	bm	6·3	56	47	—
	Roche's Point ..	30·12	52	ESE	3	b	30·18	+·04	51	48	−1	SE	4	cm	4	b	*	53	46	—
	Pembroke (St. Ann's Hd.)	30·14	48	E	4	b	30·19	+·02	43	42	0	E	3	bm	3	b	7·3	52	41	—
	Scilly	29·98	54	E	6	c	30·09	+·06	54	50	−1	E	5	c	4	c	4·4	57	50	—
	Prawle Point ...	30·08	50	ENE	6	bc	30·16	+·04	44	43	−2	ENE	5	c	4	bc	*	52	43	—
	Jersey (St. Aubin's)	30·05	50	ENE	5	b	30·12	+·02	42	41	−2	ENE	3	bmc	3	b	*	52	41	—
	Hurst Castle ...	30·14	49	NE	4	bm	30·19	0·0	45	43	0	NE	4	om	3	bm	*	52	40	—
	Dungeness ...	30·14	48	NE	5	c	30·16	−·04	46	44	+2	NE	4	0	4	c	*	50	43	—
	North Foreland	30·23	46	NE	5	c	30·19	−·06	45	43	−1	NE	4	0	4	bc.c	*	48	45	—
	London (Brixton) ...	30·24	45	ENE	4	c	30·21	−·06	44	42	−2	ENE	3	og	*	bc.o	0·5	52	43	—
	Oxford	30·25	43	NE	2	0	30·24	−·05	42	40	0	NE	3	0	*	c.o	*	48	41	—
	Cambridge ...	30·27	45	NE	3	0	30·25	−·06	43	41	−1	ENE	2	omg	*	0	1·7	50	42	—
	Yarmouth ...	30·24	46	E	4	c	30·22	−·09	44	42	−1	ENE	4	cg	4	c	*	51	41	—
Germany & Holland.	Cuxhaven ...	30·40	37	E	3	0	30·38	−·04	37	37	0	E	4	0	*	0	*	39	36	—
	Berlin	30·44	38	NE	2	0	30·43	−·02	38	36	+1	ENE	3	0	*	0	*	39	36	—
	Wiesbaden ...	*	*	*	*	*	30·24	−·08	33	31	+5	NE	2	b	*	*	*	46	28	—
	Munich	30·17	31	NE	4	b	30·23	+·01	27	27	−3	z	0	f	*	b	*	41	27	—
	The Helder ...	30·30	36	E	4	0	30·27	−·08	36	34	+1	E	3	0	1	0	*	37	35	—
Belgium.	Brussels ...	*	*	*	*	*	30·21	−·07	28	28	0	E	1	f	*	b	*	42	28	—
	Cape Gris Nez ...	30·16	40	E	4	m	30·15	−·06	34	34	+6	E	3	f	3	m	*	46	28	—
	Paris	30·10	40	NE	2	b	30·14	−·02	26	26	−3	NE	2	fb	*	b	*	51	25	—
	Brest	29·95	50	ENE	2	b	30·01	0·0	44	41	+3	ENE	4	b	1	b	*	57	46	—
	Lorient	29·93	52	ENE	5	b	30·03	+·04	43	39	+3	ENE	5	m	4	b	*	63	39	—
France &	Rochefort ...	29·85	59	E	4	c	29·96	+·02	49	45	+3	E	4	b	*	bc.c	*	66	48	—
	Belfort	30·14	52	E	6	m	30·22	−·03	29	28	−3	ENE	2	m	*	m	*	35	28	—
	Lyons	30·10	43	N	1	b	30·19	+·02	36	35	+4	NNW	1	+	*	b	*	53	32	—
	Nice	30·06	54	E	6	b	30·13	+·01	56	45	+13	E	4	0	4	b	*	56	43	—
	Perpignan ...	30·01	55	E	2	+	30·04	+·04	57	56	0	SE	3	0	*	+	*	57	53	1·26
	Biarritz ...	29·80	61	E	3	+	29·89	+·07	55	53	0	SE	3	0	2	+	*	66	52	0·16
Penin-sula.	Corunna ...																*			
	Lisbon	29·81	63	SSW	2	0	29·93	+·18	61	60	+3	SSE	2	+	*	bc.o	*	64	58	0·71
	Azores (P. Delgada)	29·60	54	NNW	3	bc	29·60	−·09	58	53	−1	NNW	2	bc		bc	*	66	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 5·8 hrs;

WEATHER CHARTS

FOR Thursday, 4th November, 1897.

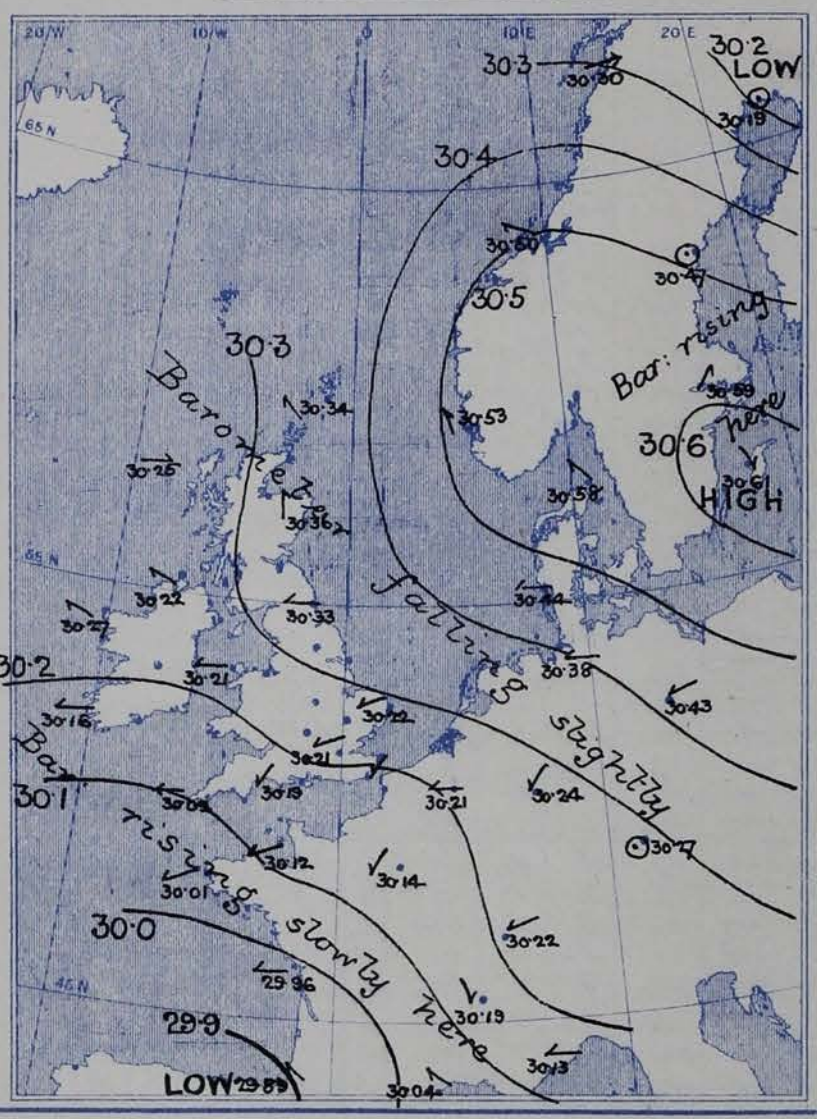
BAROMETER, WIND AND SEA.

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*

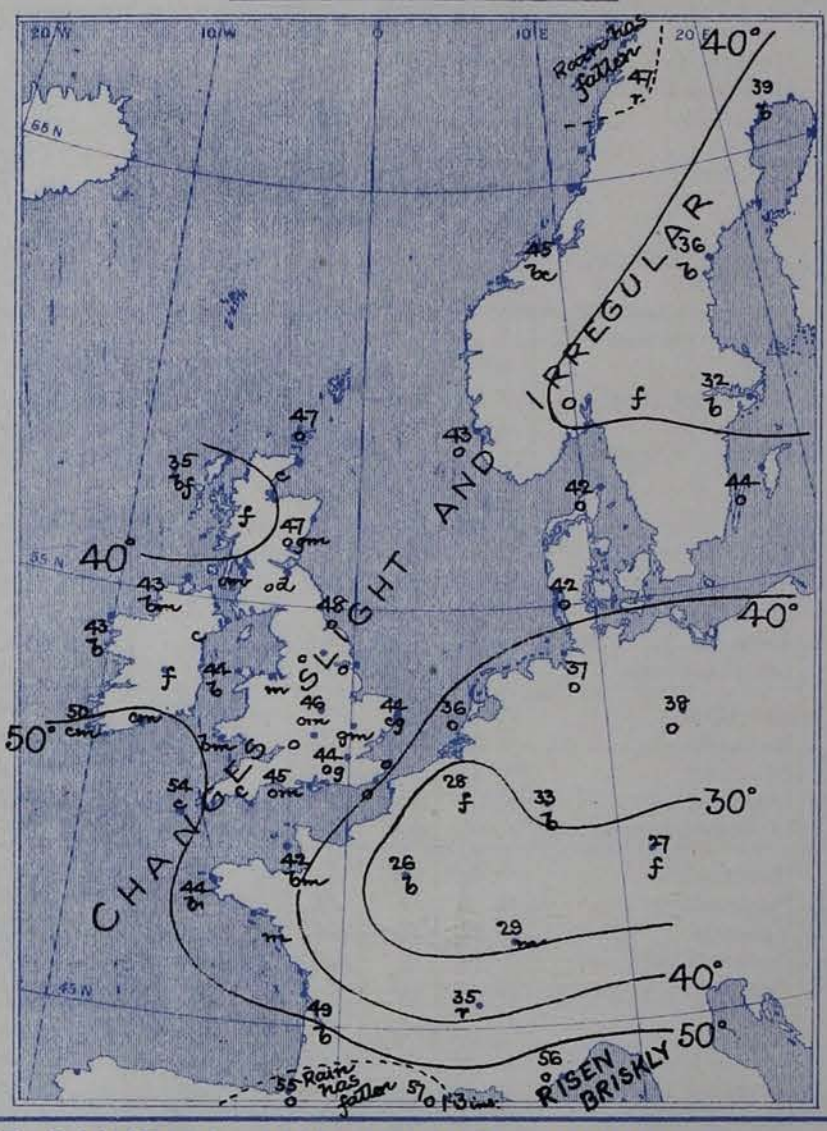


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 30.61 ins. at Wisby; 30.2 ins. and upwards in an anticyclone extending from N.W. and central Europe over all but the S.W. parts of our island.
Lowest 29.9 ins. and less in a shallow depression over the N.W. parts of the Spanish peninsula.
Gradients slight. Barometer rising a little in the W. of our islands as well as in France and the S.W. parts of Sweden and Germany, falling slightly elsewhere.

TEMPERATURE — Highest (1) 61° at Lisbon, 57° at Perpignan, 56° at Nice, and 55° at Biarritz, (2) 54° at Scilly, and 51° at Rocket's Pt.
Lowest (1) 26° at Paris, 27° at Munich, 28° at Brussels, and 29° at Belfort; (2) 30° at Nairn and 34° at Stornoway; (3) 32° at Stockholm.
The maxima registered yesterday were below 50° at many of our N.W. E. and central stations; at Stornoway and Scilly, however, the thermometer rose to 57° and at Parsonstown to 58°.

WIND — E. by N. (NE. by N. to SE. by N.) over the greater part of our islands and also over France, Germany, Denmark and the Netherlands; light to moderate in force generally, but fresh in the W. parts of the English Channel.
Light to moderate from the S.W. in the north east of Scotland, and from the SE. in the west of Norway; calm in the north of Sweden; N. by N. in the south of that country.

WEATHER — Dull over all the more E. and central parts of Gt. Britain as well as in Denmark and the south of Scandinavia, with mist or fog in a few places.
Fine in most other parts of our area, but foggy at Stornoway and Parsonstown, as well as at Cape Gris Nez, Brussels and Munich. Rain was reported at Bodö, and also at Lyons and Lisbon.
No rain fell yesterday at any of our own stations, but at Wick a little moisture was deposited in the gauge by wet fog. Heavy rain has fallen at Perpignan and Lisbon.

SEA — Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present tendency is for a reduction in the gradient over our southern districts. The E. by N. winds are therefore likely to fall light, and fog or mist will probably set in again over England.

FORECASTS

For the 24 hours ending at NOON on 5TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. by W. winds, light; cloudy, some mist or fog.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E. by N. and NE. by N. winds, light; dull, some mist or fog.
3	ENGLAND EAST	NE. by N. winds, light or moderate, cold, cloudy, some mist or fog.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No. 2.
7	ENGLAND N.W.	E. by N. winds, light or moderate, fair generally, but local fogs.
8	ENGLAND S.W.	E. by N. winds, moderate, fair general
9	IRELAND NORTH	Same as No. 7.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·51	45	44	x	0	o	1
Sumburgh Head	30·37	47	47	S	2	o	3
Stornoway	29.25	37	34	x	o	b	o
Aberdeen	30·39	47	44	SE	3	og	3
Shields	30·39	47	45	ESE	3	o	2
Ardrossan	30·28	49	47	NE	4	bf	2
Malin Head ...	30·20	53	51	ESE	4	b	3
Belmullet	30·13	56	50	ESE	1	b	*
Holyhead	30·20	53	49	E	3	be	2
Valencia	30·04	56	50	E	2	bm	3
Scilly	30·02	55	52	E	6	c	4
Jersey	30·04	52	49	ENE	5	b	4
Hurst Castle ...	30·14	54	49	NE	4	bm	3
Dungeness ...	30·15	49	46	ENE	5	c	4
North Foreland	30·23	47	45	NE	3	be	3
London (Westminster)	30·22	52	47	ENE	3	bc	*
Yarmouth ...	30·27	45	44	ENE	4	c	4
Rochefort ...	29.92	64	57	E	3	bc	*

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

Weather in morning fair or fine over N.W.m Europe generally, but dull in the central and N.E.rn parts of Gt. Britain, as well as in the W. of Norway, with rain at Bodö; foggy at many of the Scotch stations. Dull in most of the central, E.rn and S.rn countries, with fog or mist in several places and rain at Perpignan, Madrid and Rome. No important change occurring over W.rn Europe during day, but heavy rain falling at Perpignan and Lisbon.

Temperature fallen in most of the W.rn and central countries, as well as over N.rn and central Russia, changed irregularly elsewhere. Morning readings highest 69° at Algiers, 68° at Sfax, 65° at Nemours, and 63° at Palermo, Malta and La Calle, above 55° at most of the Mediterranean and Spanish coast stations. Lowest (1) 21° at Archangel, 27° at Kuopio, and 29° at Helsingfors; (2) 28° at Cape Gris Nez, Brussels and Wiesbaden, and 29° at Paris; (3) 35° at Nairn. Daily maxima below 50° at several of our own N.rn, central and E.rn stations, but thermometer exceeding 55° on our extreme W.rn coasts; exceeding 60° in the W. and S. of France and reaching 66° at Biarritz.

Wind E.ly over the greater part of our islands, France, N.rn Italy, Germany, Denmark and the Netherlands; light or moderate in force generally, but strong in the western parts of the English Channel. Light from the S.wd in the northeast of Scotland, calm or variable over the northern parts of Scandinavia and also over the greater part of Russia, variable over S.rn Italy, SE.ly over the Spanish peninsula. No important change occurring over western Europe during day.

Barometer highest 30.5 ins. & upwards, over the central and S.rn parts of Scandinavia, 30.2 ins. and more in an anticyclone covering the whole of N.rn and central Europe, and extending W.wd over all the more N.rn and E.rn parts of the United Kingdom. Lowest 29.8 ins. and less in a shallow depression over the SW.rn parts of the Spanish peninsula; 30.0 ins. and less in another shallow system over central Russia. No important change occurring during day.

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 Friday 5th November, 1897.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·14	40	Z	0	b	29·76	−·43	41	39	+ 2	WSW	4	b	*	b	*	46	37	—
	Hernösand ...	30·35	34	Z	0	b	30·15	−·32	31	31	− 5	Z	0	b	*	b	*	52	31	—
	Stockholm ...	30·53	36	S	2	0	30·39	−·20	41	39	+ 9	SW	4	0	*	0	*	41	30	—
	Wisby	30·60	42	S	4	b	30·47	−·14	44	42	0	SSW	4	c	*	b	*	44	39	—
	Karlstad ...	30·82	42	WNW	2	0	30·42	−·17	36	35	− 4	W	4	0	*	0	*	*	*	—
	Bodö	30·13	46	W	4	0	29·71	−·59	45	45	− 2	SW	9	r	8	0	*	47	45	0·39
	Christiansund ...	30·36	45	ESE	1	c	30·31	−·19	47	44	+ 2	WSW	7	0	4	c	*	47	43	—
	Skudesnaes ...	30·48	42	ESE	2	0	30·44	−·09	43	41	0	E	2	0	2	0	*	45	41	*
	Færder (Christiania Fjord)	30·52	41	SSE	1	0	30·39	−·20	42	40	+ 4	WSW	2	0	1	0	*	42	37	—
	Skagen (The Scaw)	30·48	44	ESE	1	0	30·40	−·18	43	41	+ 1	S	2	0	0	0	*	45	41	—
	Fanö	30·38	42	E	6	0	30·32	−·12	39	38	− 3	ESE	2	0	*	0	*	46	37	—
	Sumburgh Head	30·29	47	S	3	0	30·34	·00	47	45	0	Z	0	0	3	0	*	48	46	—
	Stornoway ...	30·26	45	W	1	0	30·33	+·08	46	43	+ 12	Z	0	0	0	b,0	6·5	55	33	—
	Wick	30·26	44	S	2	0	30·34	+·01	45	44	− 1	Z	0	0	1	0	*	49	33	—
	Nairn	30·30	31	Z	0	f	30·35	+·04	39	39	+ 9	WNW	1	0	1	f	*	39	26	0·01
	Aberdeen ...	30·32	46	SSE	3	og	30·35	−·01	43	41	− 4	NW	3	og	3	og	0·0	48	42	—
	Leith	30·30	46	E	2	0	30·36	·00	45	43	− 2	E	1	om	*	0	*	48	43	—
	Shields	30·28	48	E	2	0	30·31	−·02	46	44	− 2	NNE	1	of	3	0	*	49	44	—
	Spurn Head . 9 am	30·23	47	E	3	0	30·27	+·01	48	46	0	ENE	2	0	2	0	*	49	46	—
	York	30·24	48	NE	1	0	30·29	−·01	46	44	− 2	N	1	0	*	0	0·0	49	44	—
	Loughborough ...	30·24	46	ENE	2	0	30·30	+·03	44	41	− 2	Z	0	om	*	om	*	47	43	—
BRITISH ISLANDS.	Ardrossan ...	30·28	47	NNE	1	of	30·35	+·04	44	43	0	Z	0	of	0	c,of	*	47	42	—
	Malin Head ...	30·25	48	ESE	2	bcm	30·32	+·07	46	45	+ 3	SSE	2	omg	1	b,bcm	*	50	43	—
	Belmullet ...	30·25	44	ESE	1	b	30·30	+·03	43	42	0	ESE	1	0	*	b	*	54	36	—
	Donaghadee ...	30·27	50	SE	3	0	30·32	+·03	49	46	+ 1	NE	3	0	1	0	*	50	47	—
	Liverpool (Bidston)	30·25	47	ESE	1	0	30·32	+·05	46	43	+ 3	ENE	1	m	?	m,0	*	48	43	—
	Holyhead ...	30·22	45	ENE	2	b	30·31	+·10	47	44	+ 3	Z	0	omg.	0	c,b	*	50	42	—
	Parsonstown ...	30·23	44	Z	0	0	30·32	+·10	43	42	+ 7	Z	0	0	*	b,0	5·1	51	35	—
	Valencia ...	30·20	48	ESE	2	bm	30·27	+·11	45	43	− 5	ENE	2	cm	3	bcm,bm	4·7	55	35	—
	Roche's Point ..	30·21	51	SE	4	cm	30·29	+·11	50	47	− 1	SE	3	cm	3	cm	*	53	45	—
	Pembroke (St. Ann's Hd.)	30·21	46	SE	2	b	30·30	+·11	45	43	+ 2	ESE	3	omg	2	b	7·0	50	42	—
	Scilly	30·14	53	ENE	4	0	30·25	+·16	52	49	− 2	E	1	c	1	c,0	0·1	55	49	—
	Prawle Point ...	30·20	44	NE	4	c	30·31	+·15	42	41	− 2	N	2	og	2	c	*	46	39	—
	Jersey (St. Aubin's)	30·16	47	ENE	4	bm	30·28	+·16	44	43	+ 2	NNE	2	bm	2	b,bm,bfr	*	52	41	0·01
	Hurst Castle ...	30·20	46	NE	3	om	30·32	+·13	42	40	− 3	NNE	3	bm	2	om	*	48	42	—
	Dungeness ...	30·18	46	NE	3	0	30·28	+·12	42	40	− 4	NNW	2	0	1	0	*	47	41	—
	North Foreland	30·19	45	NE	3	0	30·28	+·04	43	41	− 2	W	2	0	2	0	*	45	41	—
	London (Brixton) ...	30·22	44	NE	2	og.	30·32	+·11	41	38	− 3	NE	2	og	*	og	0·0	45	40	—
	Oxford	30·25	42	NE	3	og	30·32	+·08	41	39	− 1	Z	0	og	*	og	*	43	40	—
	Cambridge ...	30·23	43	NE	1	0	30·31	+·06	41	40	− 2	NE	1	om	*	0	0·0	45	39	—
	Yarmouth ...	30·19	43	NE	3	c	30·26	+·04	43	41	− 1	WNW	2	bc	2	c	*	49	41	—
GERMANY & HOLLAND.	Cuxhaven ...	30·33	38	ESE	4	0	30·30	−·08	30	30	− 7	S	1	bm	*	0	*	39	28	—
	Berlin	30·42	34	ESE	3	b	30·39	−·04	30	30	− 8	SE	2	b	*	b	*	39	28	—
	Wiesbaden ...	*	*	*	*	*	30·43	+·19	33	32	0	NE	1	bc	*	*	*	45	32	—
	Munich... ..	30·31	35	NE	2	b	30·40	+·13	28	28	+ 1	E	3	f	*	b	*	45	27	—
	The Helder ...	30·22	37	E	1	b	30·29	·00	32	32	− 4	SE	1	f	1	b	*	39	30	—
BELGIUM.	Brussels ...	*	*	*	*	*	30·34	+·13	27	27	− 1	Z	0	f	*	f	*	33	26	—
	Cape Gris Nez ...																*			
	Paris	30·19	38	NNE	2	b	30·30	+·16	28	28	+ 2	Z	0	f	*	b	*	48	26	—
	Brest	30·05	50	ENE	2	0	30·20	+·19	47	45	+ 3	ENE	2	b	1	0	*	63	41	—
	Lorient... ...	30·06	53	ENE	3	b	30·24	+·21	47	46	+ 4	ENE	4	b	2	b	*	63	43	—
FRANCE &	Rochefort ...	30·05	57	ESE	4	c	30·15	+·19	50	50	+ 1	ESE	3	b	*	c	*	64	48	—
	Belfort	30·29	39	NE	1	r	30·34	+·12	38	37	+ 9	E	2	m	*	r	*	41	29	0·12
	Lyons	30·28	42	N	1	r	30·35	+·16	42	42	+ 6	E	1	f	*	r	*	48	36	0·04
	Nice	30·22	58	E	2	0	30·28	+·15	56	51	0	E	4	c	3	0	*	61	54	—
	Perpignan ...	30·15	59	SE	2	0	30·23	+·19	57	57	0	NE	1	r	*	0	*	59	56	0·71
	Biarritz ...	30·00	65	SE	3	0	30·11	+·22	58	53	+ 3	SSE	2	b	1	0	*	72	55	—
PENINSULA.	Corunna ...																*			
	Lisbon	30·06	63	ESE	2	b	30·08	+·15	58	55	− 3	NE	4	bc	*	b	*	68	57	0·04
	Azores (P. Delgada)	29·61	61	S	4	bc	29·57	−·03	62	58	+ 4	S	4	c	4	bc	*	63	58	—

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 0·2 hrs;

WEATHER CHARTS

FOR FRIDAY, 5TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

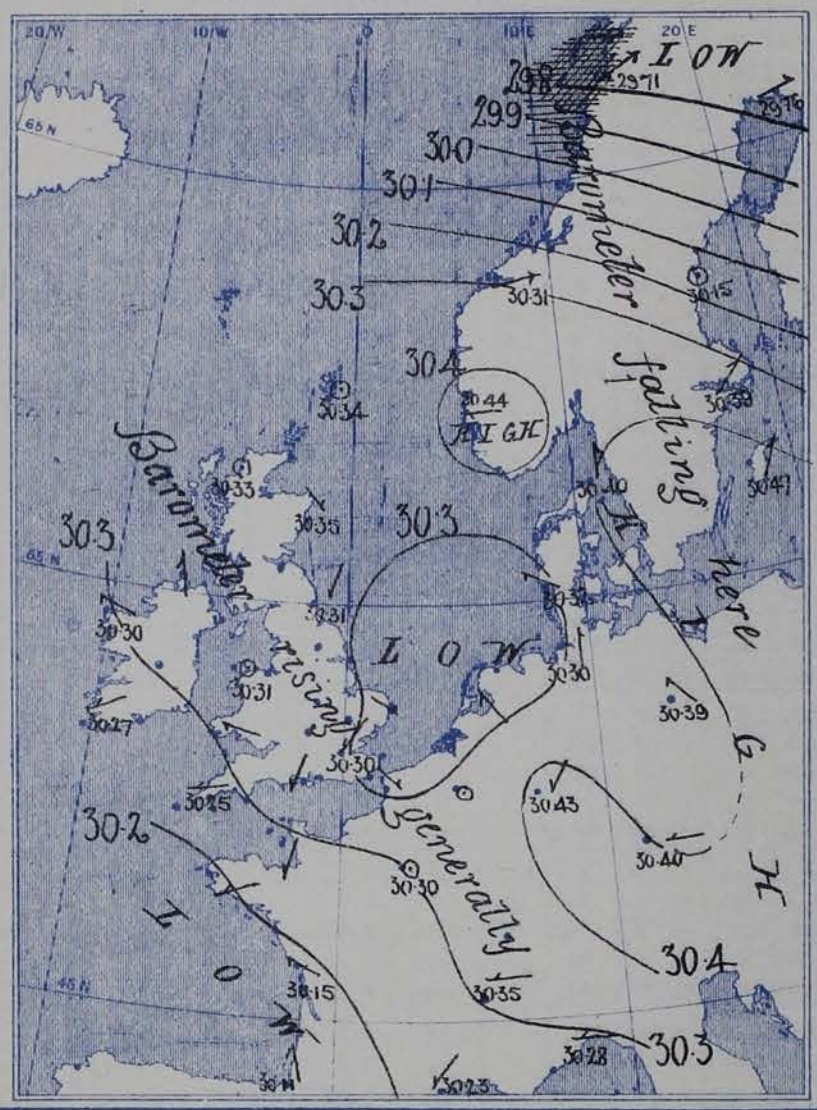
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

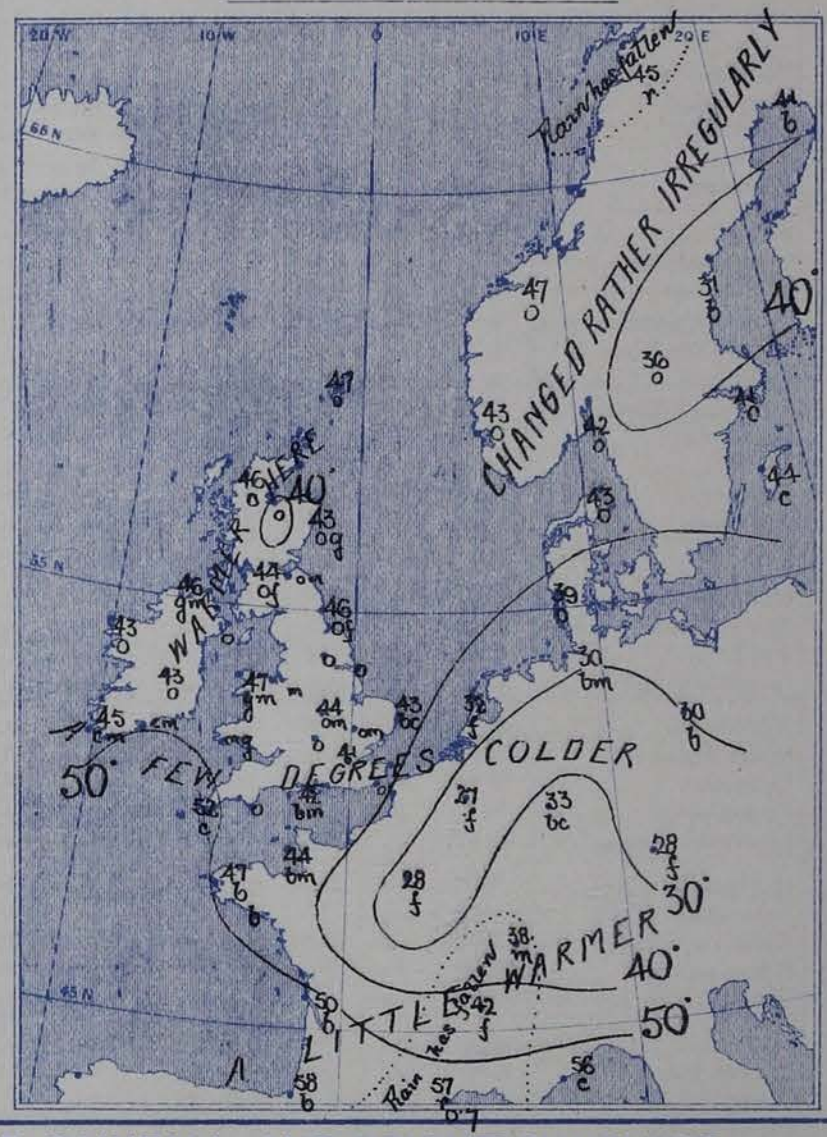


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 over the Baltic and S. of Sweden, and also over the SW. of Norway and over S. Germany.
Lowest 29.8 ins. and less in a depression passing eastwards across the N. of Scandinavia.
Gradients slight generally, but rather steep over the Nrn. parts of Scandinavia.
Barometer rising a little over our islands, France and the Netherlands, falling decidedly in Scandinavia.

TEMPERATURE

Highest 58° at Biarritz and Lisbon, 57° at Perpignan, 56° at Nice, 52° at Scilly, and 50° at Rockl Pt. and Rockport.
Lowest (1) 27° at Brussels, and 28° at Paris and Munich; (2) 31° at Hernösand, and 36° at Karlstad; (3) 39° at Nairn, and 41° in London and at Oxford and Cambridge.
The maxima registered yesterday were below 50° in most parts of Gt. Britain. At Oxford the thermometer did not exceed 43° and at Nairn 39°, but at Stornoway and also at Valencia (Ireland) and Scilly it rose to 55°.

WIND

Light from the N. or NE. over the greater part of England, from the E. in France and Germany, and from the SE. in Ireland.
Calm in the west and north of Scotland; W. or SW. in Scandinavia, with a strong gale at Bodo; light from the S. or SE. in Denmark.

WEATHER

Dull and misty over W. Europe as a whole; foggy over central France and the Netherlands; rainy at Bodo.
Fine and bright in the W. of France, and also over Germany and the Nrn. parts of Sweden.
Rain fell yesterday at some of the eastern and southern stations in France, and also at Lisbon, but in other parts of our area the weather remained very dry.

SEA

Slight or smooth generally, but very high at Bodo.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is becoming less regular than of late, but there are at present no indications of any very decided change in the weather. Fog or mist is probable in many parts of our islands.

FORECASTS

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

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Calms or light breezes; dull, misty in places
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Light breezes, chiefly N.; dull, misty or foggy in places.
6	SCOTLAND WEST	Calms or variable airs, dull, misty or foggy in places.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E. and NE. winds, light, cloudy, misty.
9	IRELAND NORTH	E. and SE. winds, light, cloudy, misty.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·60	45	43	SE.	2	b	2
Sumburgh Head	30·31	48	46	SSE.	3	o	4
Stornoway	30·24	55	50	Z.	0	b	0
Aberdeen	30·31	47	44	SSE.	2	og	3
Shields	30·29	48	45	E.	3	o	3
Ardrossan	30·27	47	46	Z.	0	c	1
Malin Head ...	30·23	50	48	ESE.	3	b	1
Belmullet	30·21	54	49	SSW.	1	b	*
Holyhead	30·21	50	47	E.	1	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·16	55	50	ESE.	2	bcm	3
Scilly	30·11	54	50	E.	4	c	2
Jersey	30·12	51	48	E.	4	b	3
Hurst Castle ...	30·18	48	45	NE.	3	cm	2
Dungeness ...	30·16	46	44	NE.	4	o	3
North Foreland	30·19	45	42	NE.	3	o	3
London (Westminster)	30·19	46	42	ENE.	3	og	*
Yarmouth ...	30·19	44	42	ENE.	4	c	4
Rochefort ...	30·00	64	56	SE.	4	c	*

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

Weather in morning dull over all the more E^rn. and central parts of Gt. Britain and also over the greater part of the Continent, with mist or fog in many places and rain at Bodö as well as at Lyons and Lisbon. Fine on our own W^rn. coasts as well as in Sweden and W^rn. Germany. Rain falling late at several stations in the E. and S. of France; no important change occurring elsewhere.

Temperature changed little and irregularly. Morning readings highest 68° at Malta, 66° at Algiers, 63° at Barcelona, and 61° at Lisbon and La Calle; above 55° at the Mediterranean and Spanish coast stations generally. Lowest (1) 26° at Paris and Moscow, 27° at Munich, and 28° at Brussels, Kiel and Archangel; (2) 30° at Nairn, and 34° at Stornoway. Daily maxima below 50° in most parts of Great Britain and as low as 45° in the southeast of England, but thermometer reaching 55° at Stornoway as well as at Valencia (Ireland) and Scilly. Exceeding 60° in the W. and S of France and reaching 72° at Biarritz.

Wind light to fresh from the E^rn. (NE to SE) over the greater part of our islands, and also over the W^rn. and central parts of the Continent, but S. 4 in the NE. of Scotland and SE. 4 in the west of Norway. Calm in the N. of Sweden; light from the W^rn. or SW^rn. over northern Russia, and from the NW^rn. or N^rn. in the south of that country; variable over southern Italy. No decided change occurring over W^rn. Europe during day.

Barometer highest 30.6 ins. and upwards over the N^rn. parts of the Baltic, 30.2 ins. and upwards in an anticyclone embracing all but the SW^rn. and extreme N^rn. parts of Europe. Lowest 29.8 ins. and less in a depression lying off the Portuguese coasts. Depression filling up gradually during day, and barometer rising in most parts of W^rn. 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.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 6th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.84	38	NW	2	b	30.09	+ .33	30	26	— 11	NW	4	b	*	b	*	46	30	—
	Hernösand ...	30.14	44	NW	4	bc	30.32	+ .17	40	35	+ 9	WNW	4	b	*	bc	*	50	28	—
	Stockholm ...	30.33	37	W	4	o	30.37	— .02	32	32	— 9	W	2	c	*	o	*	41	32	—
	Wisby	30.38	41	NW	4	o	30.35	— .12	42	39	— 2	N	4	o	*	o	*	45	37	—
	Karlstad ...	30.38	39	NNW	2	o	30.44	+ .02	33	32	— 3	NNW	2	o	*	o	*	*	*	—
	Bodö	30.11	37	NW	5	o	30.36	+ .65	33	32	— 12	NNW	6	s	3	o	*	45	32	—
	Christiansund ...	30.40	45	WSW	2	o	30.58	+ .27	43	39	— 4	NNE	2	o	3	o	*	48	41	0.16
	Skudesnaes ...	30.36	44	E	2	b	30.38	— .06	41	40	— 2	E	2	bc	1	bc,b	*	46	37	*
	Færder (Christiania Fjord)	30.38	43	NNW	1	o	30.42	+ .03	38	37	— 4	NNE	3	o	2	o	*	43	36	—
	Skagen (The Scaw)	30.38	42	L	o	o	30.42	+ .02	44	41	+ 1	ENE	1	o	o	o	*	45	41	—
	Fanö	30.36	37	ESE	1	o	30.38	+ .06	36	35	— 3	ENE	1	o	*	o	*	39	34	—
	Sumburgh Head	30.40	48	L	o	o	30.48	+ .14	45	42	— 2	NE	2	o	3	o	*	51	42	—
	Stornoway ...	30.40	46	L	o	om	30.47	+ .14	46	44	o	SE	3	o	3	o	0.0	52	42	—
	Wick	30.41	45	E	1	o	? 30.47	+ .13	45	44	o	NW	1	m	1	o	*	48	42	—
	Nairn	30.41	44	W	1	bc	30.50	+ .15	43	41	+ 4	S	1	c	1	bc	*	44	38	—
	Aberdeen ...	30.43	45	NW	1	og	30.49	+ .14	45	43	+ 2	NW	2	og	2	og	0.0	45	43	—
British Islands.	Leith	30.39	46	SE	1	o	30.47	+ .13	47	44	+ 2	NNE	2	omd	*	o	*	48	44	—
	Shields	30.39	48	L	o	o	30.45	+ .14	47	45	+ 1	NNE	2	cpd	3	o	*	49	44	—
	Spurn Head ...	30.33	47	NW	2	o	30.35	+ .08	47	46	— 1	NE	3	c	3	om,p	*	49	45	0.01
	York	30.36	47	N	1	o	30.41	+ .12	45	44	— 1	N	1	b	*	o	0.0	48	43	—
	Loughborough ...	30.36	46	N	1	om	30.40	+ .10	45	43	+ 1	N	1	om	*	om	*	47	43	—
	Ardrossan ...	30.40	45	NE	1	of	30.47	+ .12	44	43	o	NNE	1	of	1	of	*	46	43	—
	Malin Head ...	30.36	46	SSE	2	ogm	30.41	+ .09	46	44	o	SE	3	og	1	ogm	*	46	44	—
	Belmullet ...	30.33	42	SSE	1	o	30.35	+ .05	44	42	+ 1	SE	1	o	*	b,o	*	49	37	—
	Donaghadee ...	30.39	48	SE	2	o	30.44	+ .12	48	45	— 1	ESE	4	o	2	o	*	49	46	—
	Liverpool (Bidston)	30.36	47	NNE	1	o	30.42	+ .10	46	43	o	NE	1	m	?	om	*	48	45	—
	Holyhead ...	30.37	47	ENE	1	ogm	30.42	+ .11	47	43	o	E	1	omg	1	omg	*	49	43	—
	Parsonstown ...	30.34	45	L	o	o	30.37	+ .05	43	41	o	L	o	b	*	o	0.5	48	43	—
	Valencia ...	30.29	47	ESE	2	bcm	30.21	— .06	48	44	+ 3	ESE	5	bmq	4	bm,bcm	6.3	54	44	—
	Roche's Point ..	30.33	50	ESE	3	om	30.33	+ .04	50	48	o	ESE	5	om	4	om	*	52	46	—
	Pembroke (St. Ann's Hd.)	30.34	46	E	2	o	30.37	+ .07	46	43	+ 1	E	4	ogm	2	o	0.0	46	43	—
	Scilly	30.27	53	E	3	c	30.26	+ .01	49	46	— 3	ENE	4	cm	1	c	0.1	55	45	—
	Prawle Point ...	30.34	43	N	2	o	30.34	+ .03	46	44	+ 4	ENE	4	c	3	o	*	46	39	—
	Jersey (St. Aubin's)	30.32	48	NE	3	bm	30.33	+ .05	46	45	+ 2	NE	2	om	3	bm	*	53	43	—
	Hurst Castle ...	30.35	44	NE	2	o	30.36	+ .04	44	42	+ 2	NNE	2	om	2	bm,o	*	46	41	—
	Dungeness ...	30.33	41	N	2	m	30.33	+ .05	42	41	o	N	2	m	1	m	*	44	40	—
	North Foreland	30.36	42	W	2	o	30.33	+ .05	49	46	+ 6	NW	3	o	3	o	*	49	41	—
	London (Brixton) ...	30.35	44	N	1	og	30.36	+ .04	46	44	+ 5	NW	1	og	*	og	0.0	46	40	—
	Oxford	30.38	43	L	o	o	30.38	+ .06	44	43	+ 3	L	o	o	*	o	*	45	41	—
	Cambridge ...	30.35	44	N	1	o	30.37	+ .06	45	44	+ 4	NNW	1	om	*	o	0.0	46	39	—
	Yarmouth ...	30.29	45	W	1	bc	30.32	+ .06	47	45	+ 4	NE	4	c	4	bc	*	49	41	—
Germany & Holland.	Cuxhaven ...	30.31	37	L	o	b	30.34	+ .04	34	34	+ 4	S	1	f	*	b,f	*	43	30	—
	Berlin	30.37	39	ESE	2	o	30.37	— .02	36	35	+ 6	ESE	2	c	*	o	*	41	30	—
	Wiesbaden ...	*	*	*	*	*	30.35	— .08	33	32	o	SE	2	bc	*	*	*	45	32	—
	Munich... ..	30.41	32	E	3	f	30.50	+ .10	30	30	+ 2	E	3	f	*	f	*	36	28	—
	The Helder ...	30.30	39	S	1	f	30.31	+ .04	40	39	+ 8	S	1	f	1	f	*	41	32	—
Belgium.	Brussels ...	*	*	*	*	*	30.36	+ .02	30	30	+ 3	ESE	1	f	*	f	*	33	24	—
	Cape Gris Nez...	30.29	45	NE	1	f	30.29		46	45		SE	1	m	1	f	*	46	39	—
	Paris	30.32	39	N	2	bc	30.32	+ .02	32	30	+ 4	N	2	m	*	bc	*	46	28	—
	Brest	30.24	51	ENE	2	b	30.23	+ .03	43	41	— 4	E	3	m	2	b	*	61	39	—
	Lorient... ...	30.24	56	ENE	2	b	30.24	.00	46	45	— 1	ENE	4	b	3	b	*	64	43	—
France &	Rochefort ...	30.20	58	NW	2	b	30.17	+ .02	50	50	o	SE	3	b	*	b	*	70	48	—
	Belfort	30.34	47	E	2	m	30.30	— .04	40	39	+ 2	E	2	m	*	m	*	59	38	—
	Lyons	30.34	50	S	1	c	30.30	— .05	42	42	o	SE	1	bc	*	c	*	58	40	—
	Nice	30.29	57	L	o	bc	30.27	— .01	51	46	— 5	E	2	b	1	bc	*	66	50	—
	Perpignan ...	30.29	57	L	o	o	30.27	+ .04	54	54	— 3	L	o	o	*	o	*	65	53	0.16
	Biarritz ...	30.13	63	SSE	2	b	30.06	— .05	53	50	— 5	SE	4	b	o	b	*	68	52	—
Peninsula.	Corunna ...	†															*			
	Lisbon	30.05	66	E	3	o	30.06	— .02	63	58	+ 5	ENE	3	o	*	o	*	72	58	—
	Azores (P. Delgada)	29.58	59	E	1	b	29.68	+ .11	60	57	— 2	L	o	b	2	b	*	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 0.0 hrs;

WEATHER CHARTS

FOR SATURDAY, 6TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

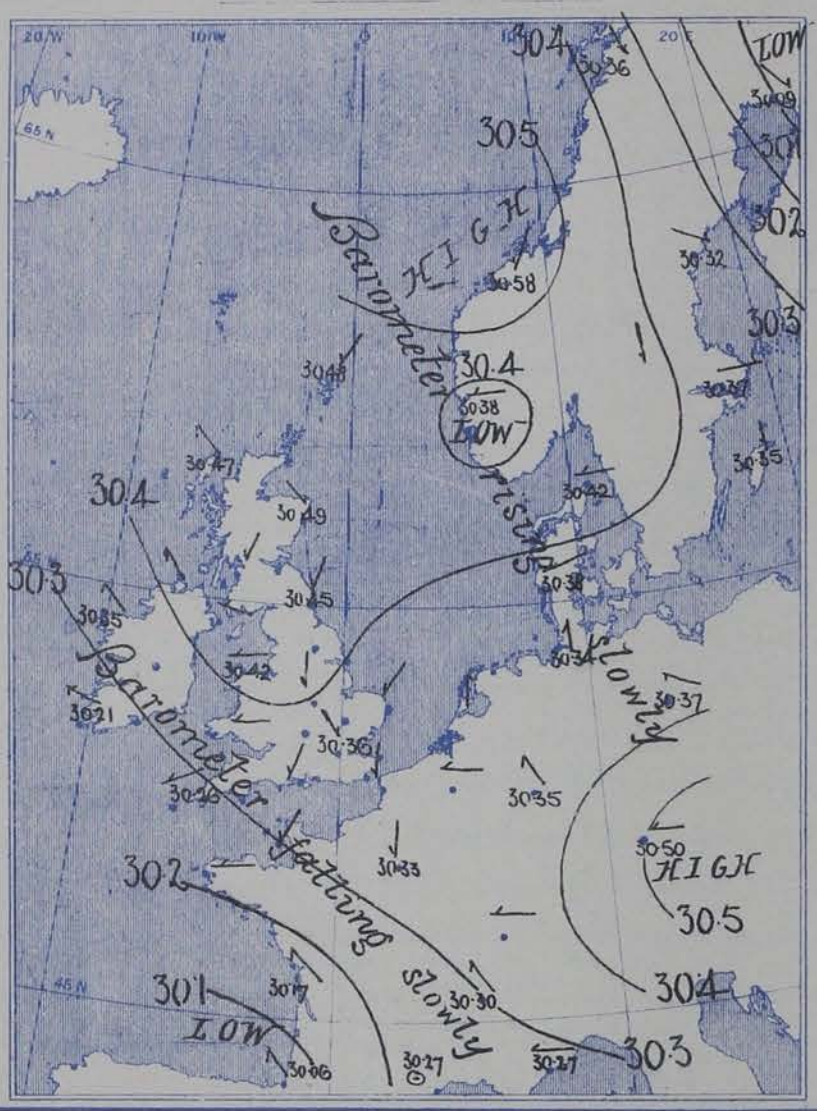
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

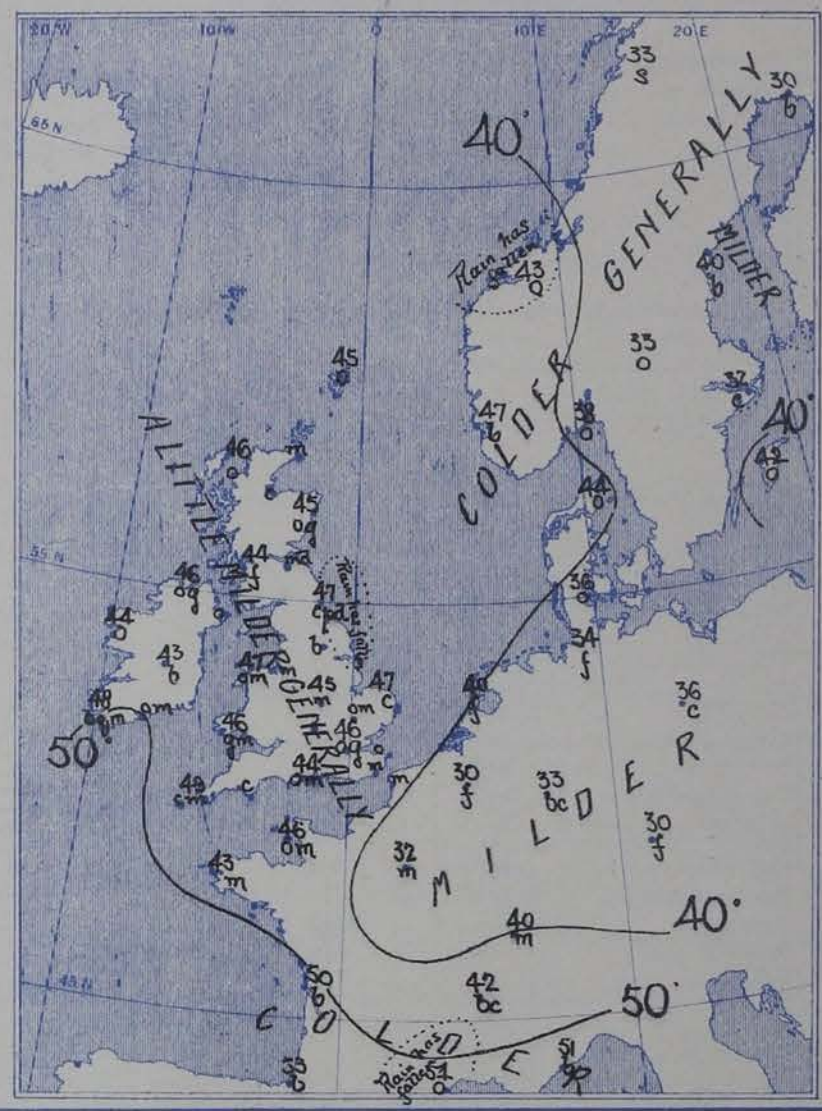


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and upwards in an area lying off the W. of Norway, 30.3 ins. and upwards in an anticyclone embracing the greater part of our area. Lowest 30.1 ins. and less over the Spanish peninsula and also over Lapland. Gradients slight. Barometer falling a little in France and the extreme SW. of our islands, but rising elsewhere.

TEMPERATURE — Highest (1) 54° at Perpignan, 53° at Biarritz, 51° at Nice, 50° at Rochs Pt. and Rockport, and 49° at Scilly and the N. Foreland. Lowest (1) 35° at Haparanda, 32° at Stockholm, and 33° at Karlstad; (2) 30° at Brussels and Munich, 32° at Paris, and 33° at Wiesbaden. The maxima registered yesterday were below 50° on all but our SW. and extreme N. coasts; at Nairn and Dungeness the thermometer did not exceed 44°.

WIND — Light from the N. over the eastern and central parts of Gt. Britain; E. or SE. on the west coasts of our islands and France, and fresh in force in the south of Ireland. N. or NW. in Scandinavia, and strong in force at Bodö; E. in Denmark and Germany.

WEATHER — Cloudy over W. Europe as a whole, with mist or fog in many places, and snow at Bodö. Fine in the W. and S. of France and also over the N. parts of Sweden. A little rain fell yesterday at Bodö and also at Perpignan, but in all other parts of our area the weather has continued very dry.

SEA — Slight or smooth generally, but moderate off the S. of Ireland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather, but the fall of the barometer which has set in over France and our SW. coasts will probably result in some increase of the E. winds over the Channel and the SW. of our islands.

FORECASTS

For the 24 hours ending at NOON on 7TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Variable breezes, finally SE.; dull, mist or fog in places.
2 ENGLAND N.E.	NE. winds light, fair generally, but some mist or fog.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N. to E. winds light or moderate; fair generally, but misty or foggy in places.
6 SCOTLAND WEST 7 ENGLAND N.W.	E. and NE. winds, light or moderate, cloudy, misty.
8 ENGLAND S.W.	E. winds, freshening, fair generally
9 IRELAND NORTH 10 IRELAND SOUTH	E. and SE. winds, fresh or strong; 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·37	? 46	44	L	0	bc	2
Sumburgh Head	30·37	49	46	L	0	0	3
Stornoway	30·37	48	45	L	0	0	0
Aberdeen	30·39	45	43	N	1	og	3
Shields	30·36	47	45	NNE	2	o	3
Ardrossan	30·37	46	45	N	1	of	0
Malin Head ...	30·35	46	45	SSE	2	omg	0
Belmullet	30·32	48	45	ESE	1	b	*
Holyhead	30·35	49	45	NE	1	ogm	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·27	53	48	ESE	3	bm	3
Scilly	30·27	54	51	ENE	2	c	1
Jersey	30·30	52	49	NE	3	b	3
Hurst Castle ...	30·33	44	41	NNE	1	bm	2
Dungeness ...	30·30	43	40	N	3	m	2
North Foreland	30·34	43	40	W	2	o	2
London (Westminster)	30·32	45	41	N	2	ogm	*
Yarmouth ...	30·28	46	43	WNW	1	bc	3
Rochefort ...	30·18	65	62	SE	1	b	*

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

Weather in morning cloudy over our islands and a considerable portion of the Continent, with mist or fog in many places and rain at Bodo, as well as in the extreme S. of France. Fine over the N^rn. parts of Sweden and Germany and also over the Spanish Peninsula, the W. of France and the S. of Italy. No important change occurring over W^rn. Europe during day.

Temperature changed irregularly in the W^rn. countries, fallen in the central and southern parts of the Continent. Morning readings highest 66° at Malta and Algiers, 64° at Spezia, 63° at San Fernando, and 62° at Palma; above 55° at the Mediterranean and Spanish coast stations generally. Lowest 23° at Kharkov, 24° at Kiew, 26° at Nicolaieff, 27° at Brussels, and 28° at Paris and Warsaw, below the freezing point over the whole of central and E^rn. Europe. Daily maxima over our islands below 55° on all but our SW^rn. and extreme N^rn. coasts, thermometer exceeding 60° in the W. and S. of France, and reaching 72° at Lisbon.

Wind light from the N^wd. or NE^wd. over the greater part of England, from the E^wd. over western Germany, France, Spain and northern Italy, and from the NE^wd. in Ireland. Calm in the west and north of Scotland. W^ly. or SW^ly. in Scandinavia and N^rn. Russia, with a gale at Bodo. Calm or NE^ly. in the south of Russia. Variable over N^rn. Italy and the Mediterranean. No important change occurring over W^rn. Europe during day.

Barometer highest 30.7 ins. and upwards over the S. of Russia; 30·2 ins. and upwards in an anticyclone covering all but the N^rn. and extreme SW^rn. parts of Europe. Lowest 29.8 ins. and less in a depression moving E^wds. across the N. of Scandinavia. No decided change occurring later, but depression in far north continuing to travel 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 7th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	30·34	30	NW	4	b	30·25	+ ·16	33	30	+ 3	WNW	2	c	*	b	*	39	25	—
	Hernösand ...	30·60	33	Z	0	b	30·59	+ ·27	33	32	− 7	Z	0	bc	*	b	*	45	32	—
	Stockholm ...	30·57	36	Z	0	c	30·66	+ ·29	31	29	− 1	WNW	2	b	*	c	*	41	30	—
	Wisby	30·55	41	NE	4	b	? 30·65	+ ·30	42	37	0	N	4	c	*	b	*	43	37	—
	Karlstad ...	30·65	32	N	2	b	30·75	+ ·31	29	28	− 4	N	2	b	*	b	*	*	*	—
	Bodö	30·56	39	NW	6	o	30·10	− ·26	43	43	+ 10	W	7	r	4	o	*	43	32	0·24
	Christiansund ...	30·71	40	NE	2	b	30·71	+ ·13	36	35	− 7	Z	0	b	3	b	*	45	36	—
	Skudesnaes ...	30·60	43	SSE	2	b	30·67	+ ·29	37	36	− 4	ENE	2	bc	2	b	*	47	38	*
	Færder (Christiania Fjord)	30·65	41	NNE	3	b	30·72	+ ·30	37	34	− 1	NE	2	b	1	b	*	41	34	—
	Skagen (The Scaw)	30·63	43	E	1	b	30·71	+ ·29	41	37	− 3	ESE	2	b	0	b	*	48	39	—
	Fanö	30·52	41	ENE	2	o	30·56	+ ·18	41	39	+ 5	E	3	o	*	o	*	41	36	—
	Sumburgh Head	30·53	44	ENE	2	o	30·54	+ ·06	46	44	+ 1	SSE	3	o	5	c, o	*	47	43	—
	Stornoway ...	30·45	49	Z	0	o	30·36	− ·11	44	43	− 2	SE	3	b	4	o	0·5	51	41	—
	Wick	30·49	47	E	3	o	30·45	− ·02	49	46	+ 4	SE	5	o	4	o	*	49	43	0·01
	Nairn	30·49	44	Z	0	o	30·43	− ·07	45	43	+ 2	E	1	o	1	o	*	46	36	001
	Aberdeen ...	30·47	45	NNE	3	o	30·46	− ·03	48	45	+ 3	SE	4	ogq	5	ogdp	0·0	49	43	002
	Leith	? 30·42	46	NNE	2	r	30·31	− ·16	49	47	+ 2	E	3	o	*	r	*	49	45	0·09
	Shields	30·40	49	NE	2	o	30·35	− ·10	49	48	+ 2	ENE	4	opd	4	cp. o	*	49	45	0·02
	Spurn Head ...	30·31	48	NE	4	o	30·24	− ·11	49	48	+ 2	E	5	op	5	o	*	51	47	002
	York	30·36	46	N	2	b	30·30	− ·11	49	47	+ 4	E	1	o	*	b	1·8	50	43	—
	Loughborough ...	30·35	46	NNE	2	o	30·27	− ·13	43	42	− 2	NNW	1	ogm	*	c, am dp	*	48	43	0·01
British Islands.	Ardrossan ...	30·38	47	NNE	1	o	30·31	− ·16	47	45	+ 3	NNE	2	o	1	o	*	47	42	—
	Malin Head ...	30·34	46	SE	4	o	30·22	− ·19	48	47	+ 2	SE	5	cg	2	o	*	48	44	—
	Belmullet ...	30·24	45	ESE	3	b	30·11	− ·24	46	43	+ 2	ESE	3	o	*	b	*	50	41	—
	Donaghadee ...	30·38	49	SE	4	c	30·27	− ·17	50	47	+ 2	ESE	5	c	3	c	*	50	47	—
	Liverpool (Bidston)	30·36	46	NE	1	o	30·26	− ·16	46	43	0	NE	2	c	?	o	*	47	43	—
	Holyhead ...	30·34	48	E	2	cm	30·23	− ·19	47	45	0	E	3	cm	2	c	*	49	42	—
	Parsonstown ...	30·28	44	SE	1	bc	30·13	− ·24	45	42	+ 2	E	1	b	*	bc	4·7	49	42	—
	Valencia ...	30·16	49	ESE	5	bcq	29·94	− ·27	52	47	+ 4	ESE	6	ogq	4	bq, bcq	5·9	52	47	—
	Roche's Point ..	30·23	51	SE	5	o	30·07	− ·26	50	48	0	SE	6	o	4	o	*	52	49	—
	Pembroke (St. Ann's Hd.)	30·27	48	ESE	4	c	30·14	− ·23	44	43	− 2	ESE	4	bcmr	2	o. c	0·0	49	42	—
	Scilly	30·15	52	E	4	c	29·99	− ·27	53	50	+ 4	ESE	6	c	2	o. c	0·2	54	46	—
	Prawle Point ...	30·24	49	ENE	5	o	30·09	− ·25	50	48	+ 4	E	5	c	4	o	*	50	46	—
	Jersey (St. Aubin's)	30·25	49	ENE	4	b	30·11	− ·22	46	43	0	E	5	cm	4	bm	*	52	43	—
	Hurst Castle ...	30·27	48	NE	2	bc	30·17	− ·19	47	45	+ 3	ENE	3	c	2	o. bcm	*	52	39	—
	Dungeness ...	30·25	47	NNE	2	c	30·18	− ·15	40	39	− 2	NE	2	o	2	c	*	51	38	—
	North Foreland	30·28	48	N	3	r	30·20	− ·13	47	46	− 2	E	2	o	2	r	*	50	44	0·10
	London (Brixton) ...	30·29	48	NE	2	o	30·21	− ·15	44	42	− 2	E	1	cm	*	og. c	0·0	49	42	—
	Oxford	30·30	42	NNE	2	b	30·21	− ·17	41	41	− 3	NE	1	of	*	c, b	*	50	37	—
	Cambridge ...	30·30	44	N	2	o	30·22	− ·15	44	43	− 1	N	1	rgm	*	o	1·1	51	39	0·02
	Yarmouth ...	30·27	48	NE	3	c	30·23	− ·09	48	46	+ 1	E	6	cgq	5	cv, c	*	50	45	0·10
Germany & Holland.	Cuxhaven ...	30·42	37	E	3	o	30·47	+ ·13	39	39	+ 5	ESE	5	o	*	o	*	41	34	—
	Berlin	30·45	33	SSE	4	o	30·53	+ ·16	36	35	0	ESE	2	o	*	o	*	43	33	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30·34	32	SE	3	f	30·35	− ·15	30	30	0	E	4	f	*	f	*	36	30	—
	The Helder ...	30·34	41	E	1	b	30·34	+ ·03	38	37	− 2	E	3	m	2	b	*	43	37	—
France & Belgium.	Brussels ...	*	*	*	*	*	30·24	− ·12	39	39	+ 9	ENE	1	r	*	f	*	41	29	0·04
	Cape Gris Nez ...	30·25	45	SE	1	o	30·17	− ·12	37	37	− 9	E	1	m	1	o	*	50	36	—
	Paris	30·25	45	N	2	b	30·17	− ·15	36	35	+ 4	N	2	f	*	b	*	50	32	—
	Brest	30·15	50	NE	3	bc	29·97	− ·26	50	48	+ 7	ESE	4	o	3	bc	*	57	39	—
	Lorient	30·15	54	ENE	5	bc	30·01	− ·23	46	46	0	E	5	o	2	bc	*	61	45	—
	Rochefort ...	30·06	59	ENE	3	c	30·00	− ·17	51	50	+ 1	ESE	4	c	*	c	*	72	48	—
	Belfort	30·25	43	E	3	m	30·28	− ·02	37	37	− 3	E	3	f	*	m	*	53	36	—
	Lyons	30·21	55	N	1	b	30·23	− ·07	46	46	+ 4	SE	1	f	*	b	*	61	42	—
	Nice	30·23	54	Z	0	b	30·26	− ·01	48	46	− 3	E	1	b	1	b	*	64	48	—
	Perpignan ...	30·18	57	E	2	o	30·13	− ·14	50	50	− 4	Z	0	bc	*	o	*	64	48	—
	Biarritz ...	30·05	63	E	3	o	29·97	− ·09	63	56	+ 10	S	2	o	0	o	*	70	53	—
Penin-sula.	Corunna ...	30·00	68	S	2	o	29·84		63	60		S	6	o	2	o	*	70	59	—
	Lisbon	29·96	64	SE	4	o	29·98	− ·08	62	61	− 1	SSE	3	r	*	o	*	68	61	0·35
	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 Colly. Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

FOR SUNDAY, 7TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

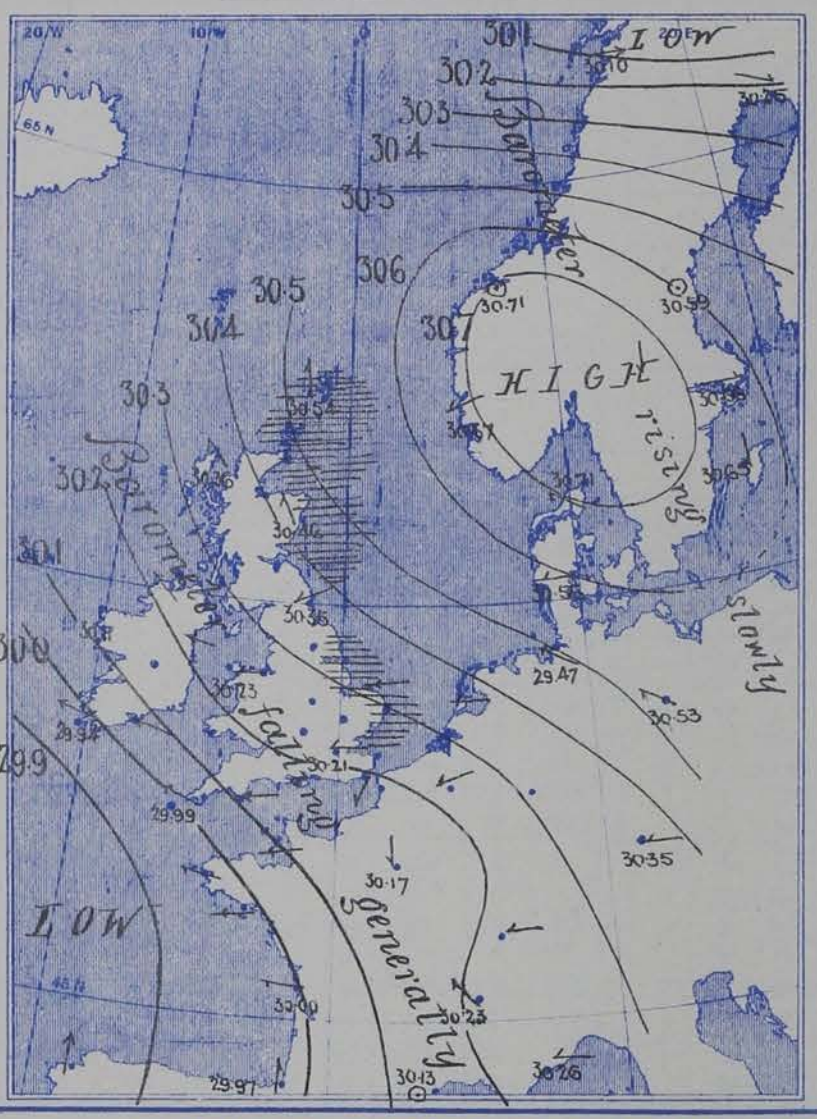
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

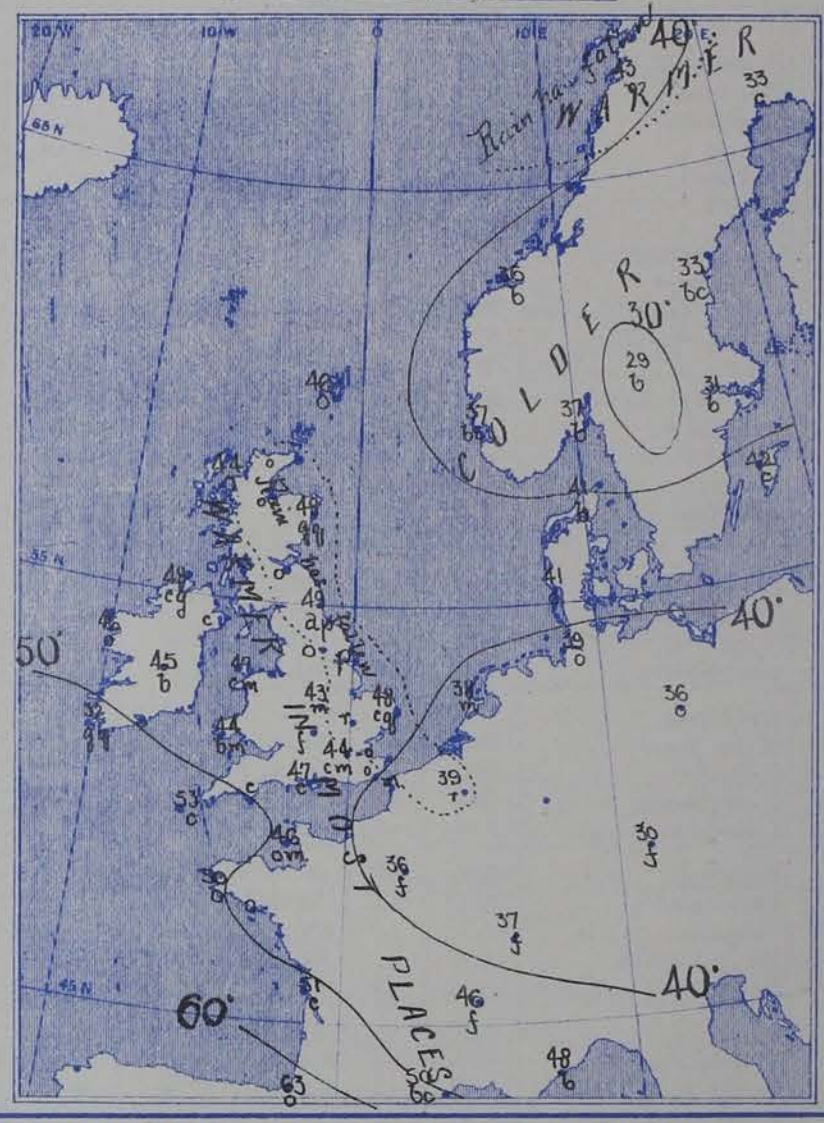


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 upwards over the southern parts of Scandinavia; 30·2 in: and upwards, in an anticyclone extending from northern and central Europe over all the more northern and eastern parts of our Islands.

Lowest, 29·9 in: and less in a depression lying to the southwestward of our Islands; 30 1 in: and less, in another disturbance passing across the north of Scandinavia.

Gradients moderate or slight generally, but rather steep over the northern parts of Scandinavia.

Barometer falling in our Islands and France – most on our southwest coasts; rising in Scandinavia, Denmark and Germany.

TEMPERATURE

Highest, 63° at Biarritz and Coruna, 62° at Lisbon, 53° at Scilly, 52° at Valencia (Ireland) and 52° at Rochefort.

Lowest (1) 29° at Karlstad, 31° at Stockholm, 33° at Haparanda and Hernösand; (2) 30° at Munich, and 36° at Paris and Berlin.

During yesterday the thermometer rose to 50° or slightly above it at several of the English and Irish stations and also in the Hebrides, and to 60° and upwards in the west and south of France.

WIND

E or SE over Western Europe generally, and fresh or strong in force on many parts of our own western, northern, and Eastern coasts.

W over the northern parts of Scandinavia, with a moderate gale at Bodö; S over the Spanish Peninsula and the southwest of France.

WEATHER

Cloudy or dull in most places, with mist or fog in several parts of England, France and Germany, and slight rain at several of our own Eastern stations. Rain is also falling at Brussels and Lisbon.

Fine in the extreme south of France and also over the greater part of Scandinavia, but raining at Bodö.

A little rain fell yesterday over the Eastern parts of Great Britain generally.

SEA

Rather rough at Edinburgh Ht., Aberdeen, and Yarmouth, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 8TH NOVEMBER 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	AT 3 PM. YESTERDAY TO DISTRICT 10. AND AT 9.40 AM. TODAY TO DISTRICTS 0 TO 3 AND 6 TO 9. HOIST NORTH CONE.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·51	47	44	ESE	2	b	1
Sumburgh Head	30·53	47	43	NE	2	c	3
Stornoway	30·49	51	47	SE	1	o	1
Aberdeen	30·48	47	45	NE	3	ogpd	3
Shields	30·43	46	46	NE	3	cp	3
Ardrossan	30·44	47	46	NNE	1	o	1
Malin Head ...	30·39	47	46	SE	4	o	1
Belmullet	30·29	50	47	ESE	1	b	*
Holyhead	30·38	49	45	E	1	cgm	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·12	51	46	ESE	7	bq	6
Scilly	30·21	52	49	E	4	om	1
Jersey	30·26	51	47	ENE	4	bm	3
Hurst Castle ...	30·30	50	46	NE	3	o	2
Dungeness ...	30·27	50	47	N	2	c	1
North Foreland	30·30	50	47	NW	3	c	2
London (Westminster)	30·31	49	46	N	1	og	*
Yarmouth ...	30·29	50	46	NNE	3	cv	3
Rochefort ...	30·11	71	64	E	2	bc	*

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

Weather in morning cloudy or dull over W.rn, N.rn and central Europe generally, with mist or fog in many places and snow at Bodö. Fine over the N.rn parts of Sweden, and also over S.rn Europe generally, but cloudy at several of the Spanish stations, rain falling at Palermo. A little rain falling later in the E.rn parts of Gt. Britain; no important change occurring elsewhere.

Temperature risen in our islands, and also over the Netherlands, Germany and the E. of France, fallen in most other localities. Morning readings highest 64° at San Fernando, Algiers and Malta, and 63° at Lisbon and Spezia; above 55° at several of the Mediterranean and Spanish coast stations. Lowest 21° at Hermanstadt, 23° at Kharkov, 24° at Nicolaieff, and 26° at Kiev, below the freezing point in many parts of E.rn and central Europe, and also in the N. of Sweden. Rising during day to 50° or slightly above it at many of the English and Irish stations, and also in the Hebrides, but remaining below 50° in the northern parts of the United Kingdom generally. Exceeding 60° in the W. and S. of France, and reaching 70° at Biarritz.

Wind light from the N.rd in the eastern and central parts of Gt. Britain; moderate to fresh from the E.rd or SE.rd on the west coasts of our islands and France, and also over the Spanish peninsula. Light to fresh from the NW.rd over Scandinavia and northern Russia, calm or variable over Austria and the south of Russia; light from E. or SE. in Germany; N.rly in Italy. No decided change occurring over western Europe during day.

Barometer highest 30·6 ins. and upwards in the south of Russia; 30·5 ins. and upwards in the W. of Norway; 30·2 ins. and upwards in an anticyclone covering all but the extreme NE.rn and SW.rn parts of Europe. Lowest 29·5 ins. and less in a depression lying over N.rn Russia; 30·0 ins. and less in a shallow system lying to the SW.rd of the Spanish peninsula. Barometer rising briskly in Scandinavia during day, but falling in most parts of our islands and France.

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 Monday 8th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·35	29	N	4	o	30·50	+ ·25	25	22	+ 2	NE	0	b	#	o	#	39	21	—
	Hernösand ...	30·36	43	NW	8	c	30·49	— ·10	42	38	+ 4	N	4	c	#	o	#	45	27	—
	Stockholm ...	30·48	36	W	2	b	30·50	— ·16	37	33	+ 6	NW	2	c	#	b	#	39	30	—
	Wisby	30·51	40	N	8	b	30·46	— ·19	42	39	o	N	6	bc	#	b	#	42	36	—
	Karlstad ...	30·60	31	NE	o	b	30·57	— ·18	32	31	+ 3	NNW	2	b	#	b	#	#	#	—
	Bodö	30·03	43	SW	7	r	30·30	+ ·40	45	43	+ 2	WSW	5	o	3	r	#	45	43	0·35
	Christiansund ...	30·68	46	SSW	1	c	30·63	— ·08	45	42	+ 9	ESE	3	o	3	c	#	46	36	—
	Skudesnaes ...	30·61	36	NE	o	b	30·61	— ·06	37	36	o	E	2	b	1	b	#	46	34	#
	Færder (Christiania Fjord)	30·65	39	W	2	b	30·60	— ·12	35	34	— 2	NNE	2	bc	1	b	#	39	34	—
	Skagen (The Scaw)	30·65	37	NE	o	b	30·60	— ·11	36	34	— 5	W	1	b	0	b	#	43	30	—
	Fanö	30·54	42	E	4	c	30·53	— ·03	40	38	— 1	E	2	b	#	c	#	45	39	—
British Isles.	Sumburgh Head	30·48	47	SSE	3	o	30·37	— ·17	46	44	o	SE	4	o	6	o	#	48	44	—
	Stornoway ...	30·29	49	ESE	5	cw	30·02	— ·34	51	48	+ 7	SE	5	o	5	bc. cw	6·2	54	42	—
	Wick	30·39	49	SE	7	o	30·21	— ·34	50	49	+ 1	SE	8	ow	6	o	#	50	45	0·01
	Nairn	30·35	47	E	2	o	30·12	— ·31	50	48	+ 5	ESE	3	c	2	o	#	50	42	—
	Aberdeen ...	30·38	46	ESE	6	orgq	30·25	— ·21	49	47	+ 1	SSE	7	opqq	7	orzq	0·0	50	45	0·03
	Leith	30·28	48	E	4	c	30·14	— ·17	50	49	+ 1	ESE	1	cm	#	c	#	50	45	0·04
	Shields	30·23	48	ENE	5	op	30·21	— ·14	50	49	+ 1	SE	4	o	5	opd	#	50	48	0·01
	Spurn Head ...	30·13	48	ESE	6	o	30·18	— ·06	50	49	+ 1	ESE	5	c	5	og.p	#	50	47	—
	York	30·17	47	ENE	2	odpq	30·19	— ·11	49	48	o	E	1	ogpd	#	ogûp	0·0	50	47	0·04
	Loughborough ...	30·13	47	E	2	o	30·15	— ·12	48	47	+ 5	ESE	1	cm	#	gf.p.om	#	48	43	0·04
	Ardrossan ...	30·20	48	ENE	5	bcm	30·06	— ·25	51	50	+ 4	E	2	of	2	bcm	#	51	45	0·16
	Malin Head ...	30·09	51	SE	6	og	29·91	— ·31	48	47	o	SE	5	cm	2	c.og	#	51	46	0·04
	Belmullet ...	30·03	49	ESE	4	c	29·81	— ·30	52	51	+ 6	ESE	3	o	#	b. c	#	53	46	0·04
	Donaghadee ...	30·11	50	ESE	6	cq	30·02	— ·25	52	52	+ 2	SE	6	o	4	cq	#	52	47	0·20
	Liverpool (Bidston)	30·11	47	ENE	3	o	30·10	— ·13	49	47	+ 3	ESE	3	o	?	ogm	#	49	45	0·10
	Holyhead ...	30·07	47	E	2	cm	30·03	— ·20	52	50	+ 5	E	1	op	1	cm	#	52	45	0·04
	Parsonstown ...	29·99	48	SE	2	c	29·85	— ·28	55	54	+ 10	E	2	o	#	c. or	3·3	56	44	0·14
	Valencia ...	29·78	51	ENE	5	rmq	29·62	— ·12	54	52	+ 2	S	3	o	4	rgm	0·0	54	50	0·34
	Roche's Point ...	29·90	52	SE	8	7	29·70	— ·17	55	53	+ 5	SW	3	bc	4	d. rm	#	55	48	0·35
	Pembroke (St. Ann's Hd.)	29·98	48	ESE	5	o	29·97	— ·17	55	54	+ 11	SSE	5	ogm	4	c.o	2·7	55	43	0·06
	Scilly	29·84	53	E	6	r	29·96	— ·03	56	55	+ 3	SSW	2	bcm	3	r	0·0	56	50	0·19
	Prawle Point ...	29·99	50	E	6	r	30·04	— ·05	56	56	+ 6	S	2	f	3	rg. or	#	55	49	0·16
	Jersey (St. Aubin's)	29·99	51	ENE	4	orgm	30·09	— ·02	51	51	+ 11	SSW	1	cm	1	og.rm.p	#	57	45	0·46
	Hurst Castle ...	30·05	50	E	3	cm	30·08	— ·09	55	55	+ 8	ESE	2	cmb	2	cm	#	56	46	0·20
	Dungeness ...	30·12	48	E	3	m	30·16	— ·02	52	51	+ 12	SSE	4	r	3	m	#	53	40	0·03
	North Foreland	30·16	47	E	2	m	30·18	— ·02	50	49	+ 3	SE	3	r	2	m	#	51	44	0·03
	London (Brixton) ...	30·14	43	ESE	2	c	30·14	— ·07	49	48	+ 5	SE	1	orf	#	cm.of	0·0	49	42	0·04
	Oxford	30·10	42	ENE	2	o	30·13	— ·08	48	48	+ 7	E	1	r	#	o	#	49	41	0·11
	Cambridge ...	30·14	47	ESE	1	o	30·17	— ·05	49	48	+ 5	ESE	1	fg	#	of	0·0	49	42	0·01
	Yarmouth ...	30·17	48	ESE	6	opq	30·19	— ·04	50	49	+ 2	ESE	5	c	5	og.q	#	50	45	0·08
Germany & Holland.	Cuxhaven ...	30·46	38	E	5	b	30·46	— ·01	35	35	— 4	E	4	b	#	b	#	43	34	—
	Berlin	30·54	40	ESE	3	bc	30·55	+ ·02	31	30	— 5	ESE	1	f	#	bc	#	43	30	—
	Wiesbaden ...	*	*	*	*	*	30·43		37	35		E	2	f	#	*	#	48	36	—
	Munich	30·36	29	E	4	f	30·45	+ ·10	30	30	o	E	3	f	#	f	#	32	28	—
	The Helder ...	30·27	39	ESE	4	bc	30·32	— ·06	37	36	— 1	ESE	2	bc	1	bc	#	43	37	—
Belgium.	Brussels ...	*	*	*	*	*	30·28	+ ·04	46	43	+ 7	ESE	1	o	#	o	#	52	39	0·12
	Cape Gris Nez ...	30·12	47	NE	o	f	30·14	— ·03	49	48	+ 12	SE	3	r	2	f	#	49	36	0·04
	Paris	30·12	52	ENE	2	b	30·21	+ ·04	50	50	+ 14	SE	2	r	#	b	#	55	36	—
	Brest	29·88	53	ESE	4	r	30·00	+ ·03	59	58	+ 9	SSW	2	o	3	r	#	59	45	0·79
	Lorient	29·93	52	ESE	4	f	30·10	+ ·09	59	59	+ 13	SSW	4	c	2	f	#	59	45	0·35
France &	Rochefort ...	29·96	57	SE	3	r	30·09	+ ·04	55	55	+ 4	SE	3	b	#	r	#	59	48	0·20
	Belfort	30·26	37	E	2	f	30·37	+ ·09	36	36	— 1	NE	4	f	#	f	#	44	34	—
	Lyons	30·19	54	ESE	1	o	30·29	+ ·06	50	50	+ 4	S	1	f	#	o	#	63	37	—
	Nice	30·26	53	E	o	b	30·28	+ ·02	52	46	+ 4	E	o	bc	1	b	#	63	48	—
	Perpignan ...	30·12	59	S	2	b	30·23	+ ·10	54	?	+ 4	W	2	o	#	b	#	67	50	—
	Biarritz ...	29·96	65	S	4	o	30·07	+ ·10	64	57	+ 1	SSE	4	c	1	o	#	68	61	0·12
Peninsula.	Corunna ...																#			
	Lisbon	30·08	64	S	2	o	30·17	+ ·19	63	62	+ 1	ESE	2	o	#	o	#	68	61	0·20
	Azores (P. Delgada)	29·99	54	WNW	1	bc	30·04		57	52		WNW	4	bc	4	bc	#	63	54	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. 0·1 hrs;

WEATHER CHARTS

FOR MONDAY, 8TH NOVEMBER, 1897.

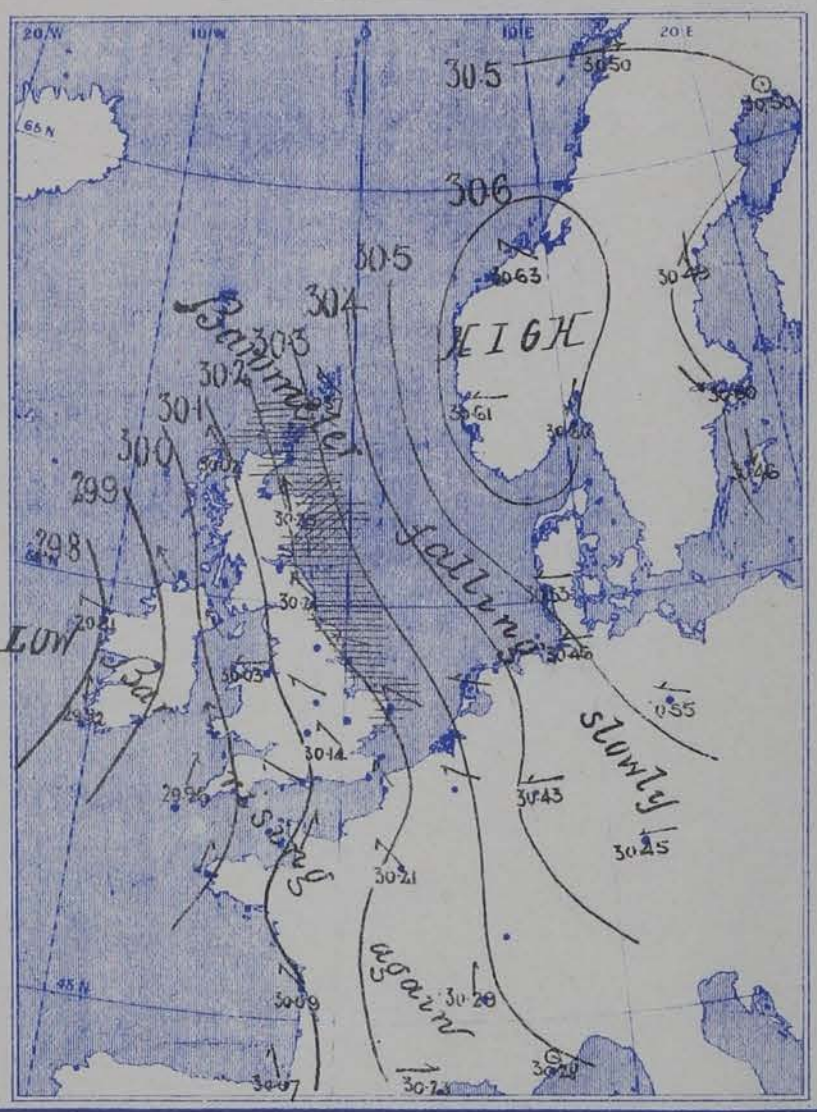
BAROMETER, WIND AND SEA.

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 ▩

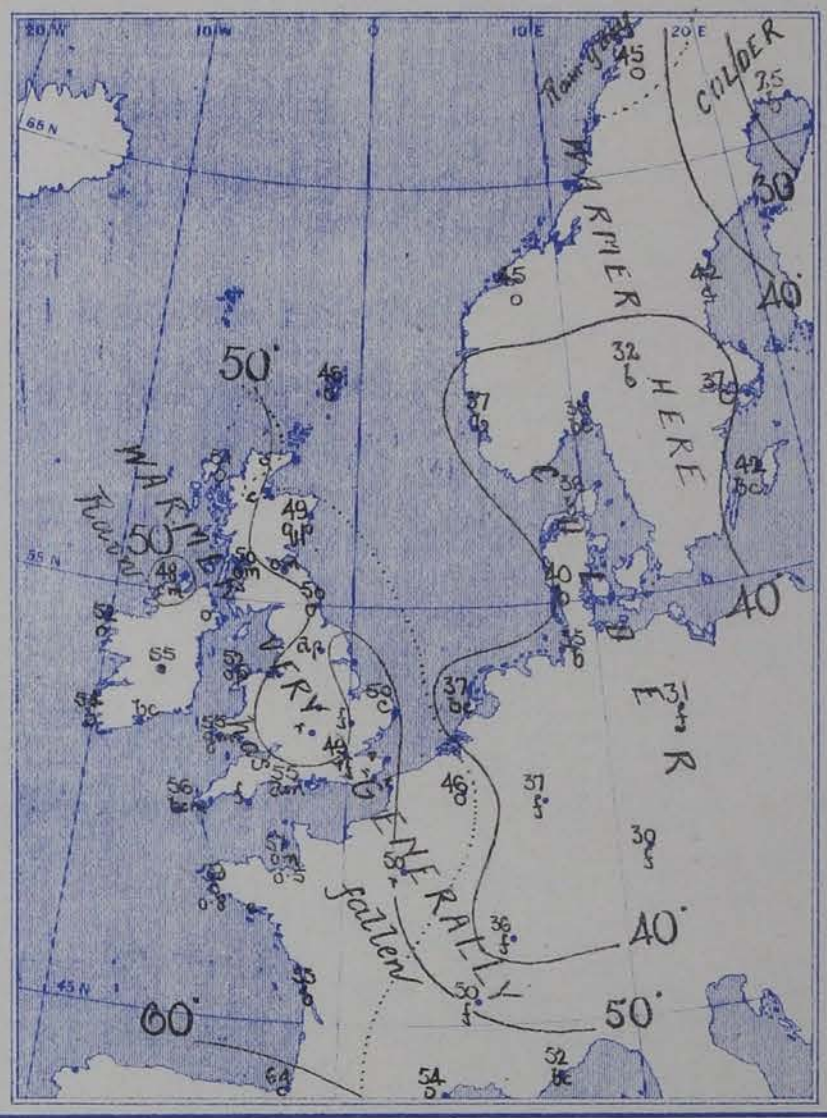


TEMPERATURE & WEATHER.

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 NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years	Minimum	Years		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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. and upwards over the S^m. parts of Norway; 30·4 ins. and upwards in an anticyclone covering the whole of Scandinavia, Denmark, Germany and the E^m. parts of the North Sea.
Lowest 29·8 ins. and less in a depression lying off the west of Ireland.
Gradients moderate or slight generally, but rather steep over the north of Scotland.
Barometer falling in the N. of our islands, and also on the E^m. shores of the North Sea, but rising elsewhere.

TEMPERATURE

Highest 64° at Biarritz, 63° at Lisbon, 59° at Brest and Lorient, 57° at Jersey, and 56° at Scilly and Prawle Point.
Lowest (1) 25° at Haparanda, and 32° at Karlstad; (2) 30° at Munich, 31° at Berlin, & 35° at Cuxhaven.
A decided rise has taken place over France and the S^m. parts of the United Kingdom, and the change appears to be still in progress.

WIND

SE^ly. over all the more northern and eastern parts of our islands and also over the neighbouring parts of the Continent; fresh to strong in force on our own north and east coasts, with a gale in the northeast of Scotland. Light to moderate from the S^m. on our southwest coasts.
Light from the E^ly. on the eastern shores of the North Sea and also over Germany, N^ly. or NW^ly. in Sweden.

WEATHER

Dull and unsettled over the United Kingdom generally, with rain in the SE. of England, and passing showers at Aberdeen. Rain was also falling at Cape Gris Nez and Paris.
Fine on our own extreme southwest coasts, as well as in the west and south of France and at most of the Scandinavian and Danish stations; foggy over Germany and central France.
Since yesterday morning rain has fallen in nearly all parts of our islands, as well as over Belgium and the north and west of France.

SEA

High at Aberdeen, and rough or rather so on our N. and E. coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off our SW. coasts is apparently moving away again over the Atlantic, and the wind in the N. is likely to subside shortly. The general conditions are, however, less settled than of late.

FORECASTS

For the 24 hours ending at NOON on 9TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
1	SCOTLAND NORTH	SE^ly. gales moderating later, cloudy, rain at times.
2	SCOTLAND EAST	
3	ENGLAND N.E.	SE^ly. winds, strong in places, mild, unsettled, some rain.
	ENGLAND EAST	
4	MIDLAND COUNTIES	SE^ly. to S^ly. winds, moderate, some rain at first, improving temporarily later, warmer.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	E^ly. and S^ly. winds, moderate or fresh, changeable, some rain, warmer.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S^ly. wind, moderate or fresh, fair at first, some rain later.
9	IRELAND NORTH	SE^ly. to S^ly. winds, moderating, fair at first, some rain later.
10	IRELAND SOUTH	Same as No. 8.
	WARNINGS	The warning signals have been lowered this morning in districts 6 to 10 but are still flying in districts 0 to 3.

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·67	46	42	2	0	b	1
Sumburgh Head							
Stornoway	30·35	54	49	SSE.	4	bc	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·14	50	49	SE.	6	c	3
Belmullet	30·05	50	45	SE.	4	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·02	51	49	ESE.	4	og	3
Hurst Castle ...							
Dungeness ...	30·14	44	44	SE.	2	m	1
North Foreland	30·16	48	47	E.	2	m	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29·96	51	55	SE.	3	r	*

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 31ST OCT. TO 6TH NOV. 1891.

The weather of last week was continuously dull in the N.E. parts of Gt. Britain, with wet fogs in the earlier half of the period, the moisture being in many cases sufficiently heavy to leave a measureable deposit in the rain gauge. With these exceptions and with the exception of a little rain on our southwest coasts on Oct. 31st to Nov. 1st the weather over the United Kingdom was extremely dry.

During nearly the whole week the distribution of pressure over W.n Europe was anticyclonic, the highest barometer readings being found at first over the North Sea and later over various portions of N.n and central Europe. The lowest pressures were found as a rule over the Spanish peninsula; and in the early part of the week, when a depression in that region spread a little to the N.wd, the E.ly wind freshened considerably over the Channel and our S.E. coasts. At other times the wind was mostly light in force, - from the E. or N.E. over England, from the S.E. in Ireland, and from the S.wd in the north and east of Scotland. Until very nearly the close of the period the weather in the west and south was mostly fine; later on, however, the sky became generally overcast, with mist and gloom in many places.

Temperature was at first rather high for the time of year, but with increasing cloud and the continued E.ly wind bringing over cold air from the Continent, the thermometer fell, the temperatures reported during the latter half of the week being somewhat below the normal. On the W. coasts of Ireland and Scotland, however, the weather continued mild throughout, the maximum temperatures reported in the Hebrides being in many cases several degrees higher than in the S.E. of England.

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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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 9th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·59	25	N	2	o	30·71	+ ·21	29	28	+ 4	2	o	c	*	o	*	29	21	0·08
	Hernösand ...	30·56	39	2	o	b	30·68	+ ·19	37	36	— 5	NW	2	o	*	b	*	45	34	—
	Stockholm ...	30·57	39	NNW	2	o	30·68	+ ·18	35	34	— 2	N	2	o	*	o	*	45	32	—
	Wisby	30·56	44	N	4	c	30·63	+ ·17	40	41	+ 1	N	4	o	*	c	*	43	37	—
	Karlstad ...	30·60	30	NNW	1	?	30·67	+ ·10	26	26	— 6	N	2	?	*	?	*	*	*	—
	Bodö	30·60	42	SW	4	c	30·60	+ ·10	36	35	— 9	ESE	2	bc	1	c	*	45	?	0·12
	Christiansund ...	30·56	38	ESE	2	b	30·57	— ·06	36	35	— 9	ESE	1	b	3	b	*	45	34	—
	Skudesnaes ...	30·57	40	2	o	b	30·56	— ·05	36	?	— 1	E	2	b	3	b	*	45	34	*
	Færder (Christiania Fjord)	30·60	39	NNE	1	b	30·65	+ ·05	34	34	— 1	NNE	2	f	1	b	*	39	34	?
	Skagen (The Scaw)	30·61	37	NNE	1	b	30·63	+ ·03	39	37	+ 3	SE	1	b	o	b	*	45	30	—
	Fanö	30·55	37	E	3	b	30·56	+ ·03	35	35	— 5	E	1	b	*	b	*	46	36	—
British Islands	Sumburgh Head	30·34	47	SE	4	o	30·32	— ·05	49	49	+ 3	SE	3	o	5	o	*	49	46	—
	Stornoway ...	30·07	52	SE	2	o	30·20	+ ·18	50	49	— 1	? W	3	c	3	o	0·0	52	47	0·10
	Wick	30·31	49	SE	7	o	30·28	+ ·07	51	50	+ 1	S	2	o	4	o	*	51	49	0·01
	Nairn	30·22	47	ENE	1	b	30·27	+ ·15	43	42	— 7	2	o	o	1	b	*	57	41	—
	Aberdeen ...	30·28	49	SSE	5	ogq	30·34	+ ·09	50	49	+ 1	SSE	3	ogm	6	ogq, r	0·0	51	49	0·04
	Leith	30·22	49	E	1	o	30·32	+ ·18	48	47	— 2	E	1	bcm	*	o	*	53	46	—
	Shields	30·26	50	SE	2	om	30·36	+ ·15	51	51	+ 1	SE	1	of	3	om, df	*	51	49	0·02
	Spurn Head ...	30·24	51	ESE	4	r	30·33	+ ·15	51	51	+ 1	ESE	2	f	3	c, r, f	*	51	50	0·12
	York	30·24	51	E	1	r	30·34	+ ·15	51	50	+ 2	E	1	fd	*	o, d	0·0	52	48	0·05
	Loughborough ...	30·24	51	ESE	1	o	30·33	+ ·18	51	50	+ 3	2	o	af	*	omd, mf	*	52	48	0·07
	Ardrossan ...	30·17	54	E	2	of	30·27	+ ·21	48	48	— 3	NNE	2	efw	1	of	*	54	45	—
	Malin Head ...	30·05	51	SSE	3	cpm	30·10	+ ·19	51	51	+ 3	SSE	7	cmg	2	o, cpm	*	55	46	0·01
	Belmullet ...	30·06	53	S	1	b	30·05	+ ·24	53	53	+ 1	SSE	3	c	*	c, b	*	55	48	0·03
	Donaghadee ...	30·14	53	SE	5	o	30·26	+ ·24	53	53	+ 1	SSE	4	c	2	o	*	54	51	0·06
	Liverpool (Bidston)	30·21	51	ESE	2	o	30·28	+ ·18	52	49	+ 3	ESE	3	c	?	om	*	53	49	—
	Holyhead ...	30·17	54	S	1	bcm	? 30·25	+ ·22	48	47	— 4	E	1	cf	1	gpd, bcm	*	57	47	—
	Parsonstown ...	30·08	51	E	1	c	30·12	+ ·27	56	55	+ 1	SE	2	o	*	c, r	4·7	60	49	0·16
	Valencia ...	30·00	55	SE	3	bc	30·07	+ ·25	54	53	0	SSE	4	c	4	c, bc	5·7	59	53	—
	Roche's Point ...	30·09	55	S	3	bc	30·14	+ ·24	56	55	+ 1	S	4	rm	4	bc	*	58	54	0·40
	Pembroke (St. Ann's Hd.)	30·18	55	SW	2	c	30·23	+ ·26	55	54	0	SE	4	o	4	c	2·9	58	52	0·02
	Scilly	30·09	57	SE	2	c	30·15	+ ·19	57	56	+ 1	ESE	2	c	2	c	4·5	59	54	0·02
	Prawle Point ...	30·21	55	E	2	c	30·25	+ ·21	55	54	— 1	ESE	3	f	2	c, fd	*	57	54	0·03
	Jersey (St. Aubin's)	30·21	59	SSE	1	cg	30·26	+ ·17	55	55	— 2	SE	3	f	3	bc, cg	*	61	53	0·02
	Hurst Castle ...	30·22	57	2	o	f	30·29	+ ·21	54	53	— 1	NE	2	om	2	om, f	*	58	54	—
	Dungeness ...	30·23	54	SSE	3	o	30·30	+ ·14	53	53	+ 1	SE	1	f	1	d, o	*	54	51	0·06
	North Foreland	30·25	52	SE	2	mp	30·32	+ ·14	52	51	+ 2	SE	2	m	2	m, p	*	53	48	0·12
	London (Brixton) ...	30·23	55	SE	2	odm	30·32	+ ·18	53	53	+ 4	ENE	1	fdp	*	fr, o	0·0	55	48	0·15
	Oxford	30·26	52	2	o	f	30·32	+ ·19	52	51	+ 4	NE	1	of	*	od, f	*	53	48	0·03
	Cambridge ...	30·25	52	2	o	r	30·33	+ ·16	51	51	+ 2	ESE	1	f	*	fr	0·0	54	47	0·19
	Yarmouth ...	30·24	51	SE	4	od	30·32	+ ·13	51	50	+ 1	ESE	3	cfg	4	om, od	*	52	49	0·13
Germany & Holland	Cuxhaven ...	30·47	39	SE	3	b	30·51	+ ·05	34	34	— 1	E	3	b	*	b	*	41	32	—
	Berlin	30·56	35	2	o	b	30·56	+ ·01	33	31	+ 2	2	o	f	*	b	*	37	30	—
	Wiesbaden ...	*	*	*	*	*	30·53	+ ·10	34	32	— 3	NE	2	o	*.	*	*	39	34	—
	Munich	30·49	30	E	4	f	30·45	·00	28	28	— 2	E	3	f	*	f	*	32	27	0·04
	The Helder ...	30·37	40	ESE	1	b	30·40	+ ·08	37	36	0	ESE	1	m	1	b	*	41	37	—
France & Belgium	Brussels ...	*	*	*	*	*	30·37	+ ·09	45	43	— 1	ESE	1	o	*	o	*	51	44	0·04
	Cape Gris Nez ...	30·21	52	SSE	2	f	30·27	+ ·13	52	52	+ 3	SSE	1	f	1	f	*	54	46	0·01
	Paris	30·29	56	ESE	1	o	30·31	+ ·10	46	45	— 4	NE	1	c	*	o	*	60	46	—
	Brest	30·13	58	E	1	c	30·13	+ ·13	56	55	— 3	E	3	bc	3	c	*	62	52	—
	Lorient	30·21	59	SE	2	bc	30·18	+ ·08	57	57	— 2	NE	4	b	3	bc	*	66	52	—
	Rochefort ...	30·18	62	2	o	b	30·16	+ ·07	52	51	— 3	SE	3	b	*	b	*	72	48	—
	Belfort	30·39	37	ENE	5	f	?	?	33	33	— 3	NE	3	f	*	f	*	41	32	—
	Lyons	30·32	53	N	1	o	30·32	+ ·03	46	45	— 4	E	1	m	*	o	*	58	45	—
	Nice	30·28	53	2	o	c	30·30	+ ·02	53	48	+ 1	2	o	b	o	c	*	63	48	—
	Perpignan ...	30·27	58	NE	2	o	30·22	— ·01	54	54	o	W	1	c	*	o	*	64	53	—
	Biarritz ...	30·11	66	2	o	b	30·06	— ·01	55	53	— 9	E	4	o	3	b	*	71	54	—
Peninsula	Corunna ...																*			
	Lisbon	30·12	64	SE	2	o	30·04	— ·13	59	57	— 4	WSW	5	o	*	o	*	68	59	0·12
	Azores (P. Delgada)	30·22	57	NNW	3	b	30·30	+ ·26	55	51	— 2	NNW	4	b	2	b	*	64	54	004

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 TUESDAY, 9TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

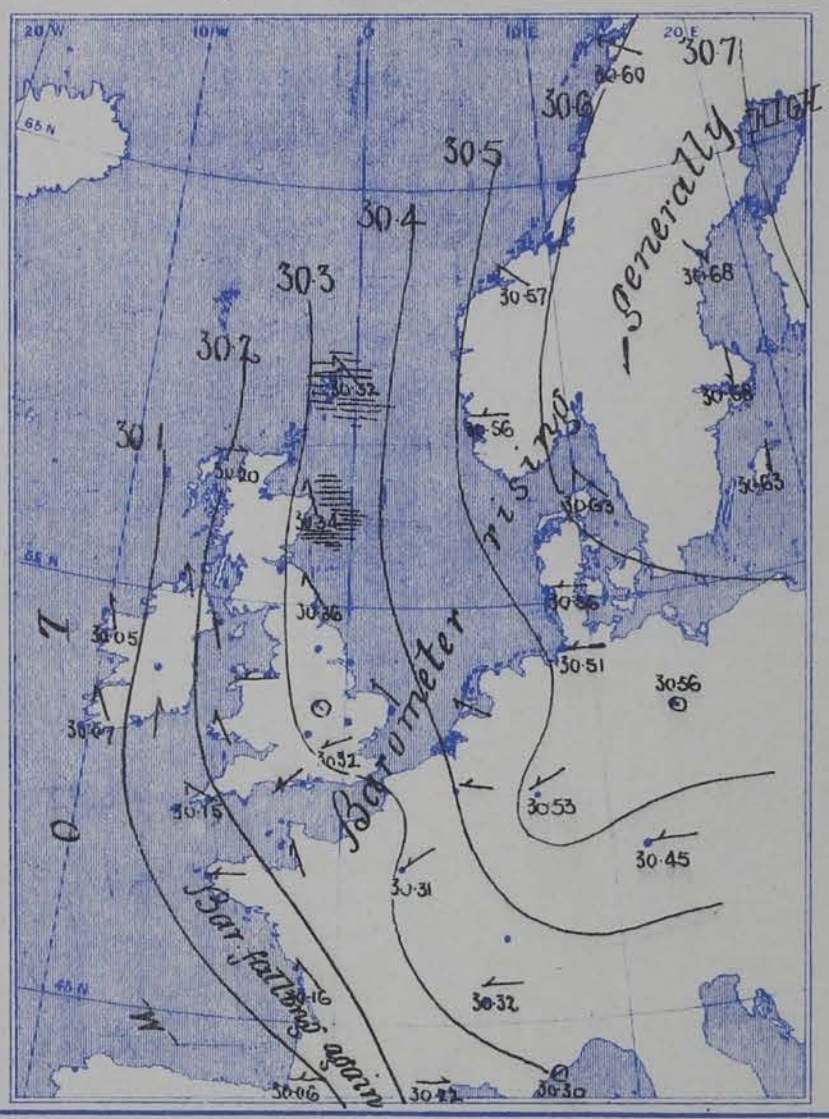
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▬

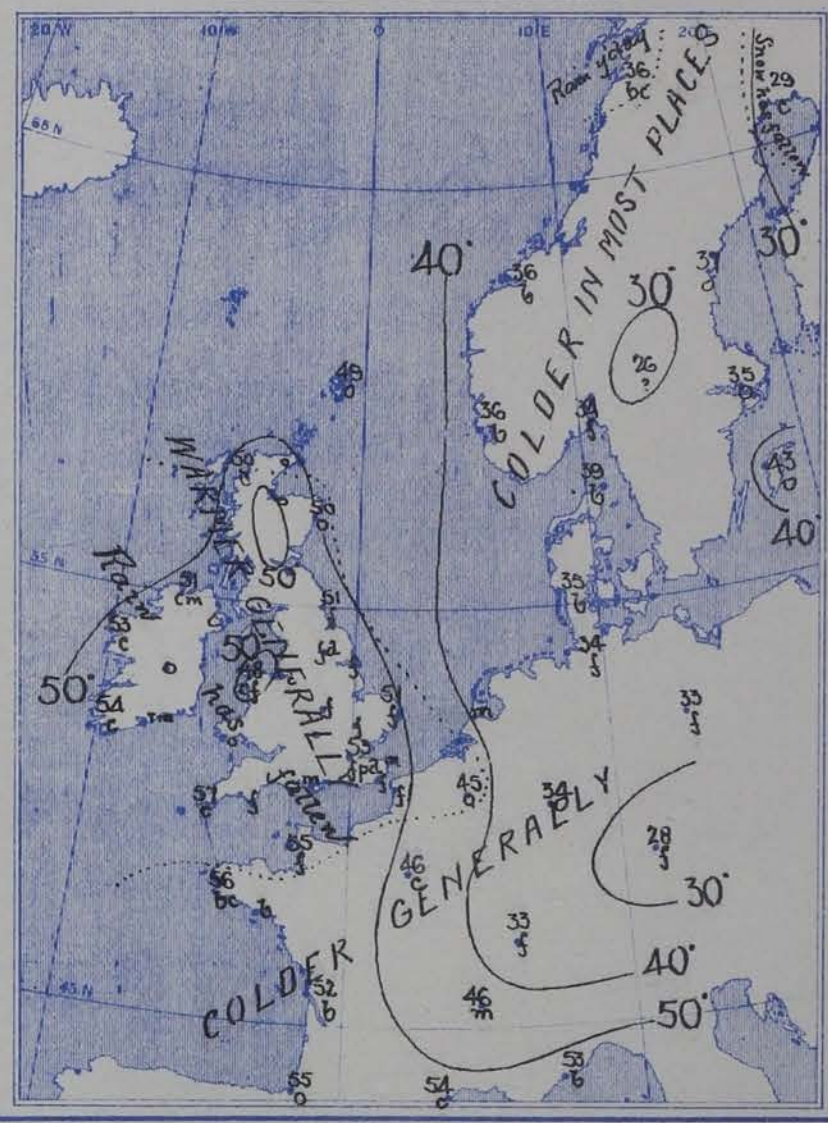


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 30·71 ins. at Haparanda, and exceeding 30·3 ins. over all the E^m. parts of our area.
Lowest Below 30·1 ins. over the W. of Ireland, and apparently lower over the adjacent parts of the Atlantic.
Gradients moderate – mainly favourable for E^ly. to S^ly. winds, but varying in several localities.
Barometer falling both in the SW. and NW., rising in the E.

TEMPERATURE

Highest 59° at Lisbon, 57° at Scilly, 54° at Hurst Castle and Valencia (Ireland)
Lowest (1) 26° at Karlstad, 29° at Haparanda; (2) 28° at Munich, 33° at Belfort and Berlin; (3) 43° at Hawn.
It rose during yesterday to 61° at Jersey, 60° at Parsonstown, and to 59° or 58° at several of our SW^m. stations.

WIND

Light from between E. and NE. over the greater part of England and France, SE^ly. to S^ly., moderate to strong on our northwestern coasts, and light from the S^d. in the east of Scotland, N^ly. in the southeast of Sweden.

WEATHER

Very fine over Norway and the eastern shores of the North Sea, very dull over our islands with fog in many places and rain at some of our SW^m. and S^m. stations; fine on the W. coasts of France.
Rain has fallen at almost all our own stations but the largest amount reported is only 0·40 in. at Rochas Pt. From 3 to 6 hrs. of Bright Sunshine were recorded at our most W^m. and SW^m. stations, none in the S., the E. or NE.

SEA

Stiff, rough off the NE. coast of Scotland, moderate off the S. of Ireland, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of damp misty weather is probable, with rain in the west, and E^ly. to SE^ly. winds.

FORECASTS

For the 24 hours ending at NOON on 10TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^ly. and SE^ly. winds moderate or fresh; cloudy, misty.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	E^ly. and SE^ly. winds, light; foggy or misty in most places, becoming colder.
6	SCOTLAND WEST	E^ly. winds, light or moderate; cloudy, local fogs.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E^ly. and SE^ly. winds moderate or fresh; fair at first, some rain later.
9	IRELAND NORTH	S^ly. and SE^ly. winds, strong in places; cloudy, some rain.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·57	45	42	SSE.	2	b	2
Sumburgh Head	30·32	48	47	SE.	4	o	6
Stornoway	30·05	51	50	SSE.	3	o	3
Aberdeen	30·26	50	47	SE.	6	ogq	7
Shields	30·24	51	49	SSE.	4	omw	4
Ardrossan	30·11	54	53	E.	2	of	2
Malin Head ...	29·92	54	54	SE.	7	o	3
Belmullet	29·94	55	53	WSW	3	b	*
Holyhead	30·10	56	55	S	2	ognpq	1
Valencia	29·96	58	55	SSE.	2	c	3
Scilly	30·08	58	57	S	2	c	2
Jersey	30·17	60	59	SE.	3	bc	3
Hurst Castle ...	30·16	58	57	S	2	om	2
Dungeness ...	30·20	54	53	SSE.	4	d	3
North Foreland	30·23	53	52	SE.	2	m	2
London (Westminster)	30·18	56	54	E.	0	ofd	*
Yarmouth ...	30·21	52	50	SE.	4	om	4
Rochefort ...	30·17	70	65	S	1	b	*

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

Weather in morning fine and bright over Scandinavia, the Baltic and the Netherlands, as well as over Italy and the Adriatic; very cloudy or overcast in the British Islands and France, with fog or rain at several stations. Rain falling later almost all over the United Kingdom, and thick mists prevailing in many parts of England.

Temperature risen rapidly over France and considerably over the United Kingdom; fallen rapidly over Finland, Russia and some parts of N. Germany. Morning readings highest 75° at San Fernando, 69° at Bilbao, 59° at Brest, and 56° to 52° on our own SW^m. and S^m. coasts. Lowest 16° at Kuopio, 19° at Moscow, and below the freezing point over Finland and Russia generally; 24° at Warsaw, 28° at Breslau, 29° at Hermanstadt, 30° at Munich. Rising later to between 58° and 61° at many of our W^m. and SW^m. stations to 60° at Paris and 77° at Biarritz. Succeeding night warm over our Islands.

Wind (1) very light and anticyclonic over Denmark, Scandinavia and central Europe; (2) mainly N^{1/4} and light over Russia, (3) SE.^{1/4} to S.^{1/4} over the British Islands and their neighbourhood, and blowing hard on the NE. coasts of Scotland. The last named gales dying out subsequently, and wind backing towards E. again on our southwest coasts.

Barometer highest 30·6 ins. and more over the S^m. half of Norway, and exceeding 30·3 ins. over Scandinavia, the Baltic, the North Sea and central Europe generally. Lowest – below 29·8 ins. off the W. coast of Ireland, and below 29·9 ins. over central Russia. Rising later all over the United Kingdom (most in west), but falling in Portugal.

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 WEDNESDAY NOVEMBER 10TH 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterda-	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30.57	36	W	4	o	30.39	-.32	35	33	+6	W	o	o	*	o	*	39	23	—
	Hernösand ...	30.68	39	SW	4	o	30.55	-.11	33	31	-4	SW	2	o	*	o	*	39	30	—
	Stockholm ...	30.80	39	W	o	o	30.76	+.08	39	38	+4	S	2	o	*	o	*	41	32	—
	Wisby	30.81	37	SSE	4	c	30.84	+.21	37	34	-6	S	4	c	*	c	*	43	36	0.39
	Karlstad ...	30.76	32	W	o	b	30.76	+.09	33	33	+7	W	o	f	*	b	*	*	*	—
	Bodö	30.52	35	E	2	b	30.39	-.21	34	33	+1	ESE	4	o	1	b	*	34	34	0.08
	Christiansund ...	30.56	38	ESE	1	b	30.50	-.07	39	37	+3	ESE	1	b	3	b	*	41	36	—
	Skudesnaes ...	30.59	43	SE	2	b	30.62	+.06	44	42	+8	SE	4	o	5	b	*	48	36	*
	Færder (Christiania Fjord)	30.77	39	ENE	2	o	30.69	+.04	41	39	+7	W	o	o	1	o	*	41	34	—
	Skagen (The Scaw)	30.73	41	SSE	1	b	30.74	+.11	43	41	+4	SSE	1	o	o	b	*	43	37	—
	Fanö	30.63	42	ESE	2	o	30.64	+.08	38	37	+3	ESE	4	b	*	o	*	43	36	—
	Sumburgh Head	30.35	50	S	2	o	30.24	-.08	50	49	+1	S	2	o	6	o	*	51	47	—
	Stornoway ...	30.19	51	SE	1	f	30.08	-.12	52	50	+2	SSW	4	r	5	o.f	o.5	53	46	0.05
	Wick	30.25	51	SE	4	o	30.18	-.10	51	50	o	S	5	o	4	o	*	51	49	—
	Nairn	30.26	48	W	o	b	30.19	-.08	42	42	-1	W	o	be	1	b	*	52	36	—
	Aberdeen ...	30.35	50	SSE	3	odgm	30.27	-.07	50	49	o	SSE	3	og	4	o.fg.dgm	0.0	52	49	0.01
	Leith	30.31	47	E	1	o	30.3	-.09	50	50	+2	E	1	om	*	o	*	52	42	0.04
	Shields	30.35	51	SE	2	of	30.29	-.07	49	48	-2	SE	2	f	2	of	*	52	48	—
	Spurn Head ...	30.33	50	ESE	3	o	30.28	-.05	50	49	-1	SE	4	c.f.d	4	o.f.dm	*	51	49	0.01
	York	30.34	53	E	1	om	30.29	-.05	47	46	-4	E	1	be	*	om	0.0	54	49	0.01
	Loughborough ...	30.32	53	NE	1	o	30.28	-.05	47	46	-4	ESE	1	om	*	g.f.om	*	53	46	—
British Islands	Ardrossan ...	30.29	52	NE	2	c	30.20	-.07	50	50	+2	NNE	1	of	1	c.f.	*	55	45	—
	Malin Head ...	30.12	54	S	6	om	30.10	0.0	54	53	+3	S	5	cmg	2	o.m	*	55	51	—
	Belmullet ...	30.10	55	ESE	1	o	30.13	+.08	56	51	+3	SSW	1	o	*	c.o	*	59	50	0.16
	Donaghadee ...	30.27	55	SSE	4	c	30.20	-.06	54	54	+1	SSE	3	of	1	c	*	55	52	—
	Liverpool (Bidston)	30.30	52	ESE	2	cm	30.25	-.03	50	49	-2	ESE	1	o	?	cm	*	55	50	0.01
	Holyhead ...	30.24	55	W	o	cm	30.21	-.04	53	51	+5	SE	1	f	o	c.cm	*	61	49	—
	Parsonstown ...	30.15	57	SE	2	o	30.16	+.04	54	53	-2	SE	2	c	*	o.f	0.5	60	52	0.04
	Valencia ...	30.11	57	SE	2	od	30.14	+.07	53	52	-1	W	o	og	2	or.od	2.3	59	51	1.12
	Roche's Point ..	30.18	56	SE	5	f	30.18	+.04	55	54	-1	S	3	o	4	m.d.f.f	*	59	54	0.30
	Pembroke (St. Ann's Hd.)	30.20	56	SE	5	be	30.19	-.04	53	54	o	SE	3	f	2	be	0.4	56	53	—
	Scilly	30.12	56	E	4	f.	30.13	-.02	56	53	-1	SE	3	f	3	f	1.8	59	54	—
	Prawle Point ...	30.23	53	ENE	3	be	30.20	-.05	52	51	-3	ENE	4	c	3	bf	*	56	52	—
	Jersey (St. Aubin's)	30.20	58	ENE	3	c	30.19	-.07	52	51	-3	NE	1	cm	1	f.c.w	*	61	50	0.01
	Hurst Castle ...	30.24	53	E	1	cm	30.22	-.07	51	49	-3	ENE	3	o	2	bm.cm	*	57	50	0.22
	Dungeness ...	30.27	53	E	3	m	30.26	-.04	46	44	-7	SE	4	c	3	f.m	*	55	45	0.01
	North Foreland	30.32	52	SE	2	o	30.27	-.05	48	44	-4	SE	3	c	3	c.o	*	55	44	—
	London (Brixton) ...	30.29	52	ESE	2	of	30.25	-.07	46	45	-7	E	2	c	*	g.fd.o	0.0	55	45	0.01
	Oxford	30.29	53	NE	1	f	30.25	-.07	48	47	-4	NE	1	o	*	o.c.f	*	54	48	—
	Cambridge ...	30.31	52	ESE	1	om	30.27	-.06	45	45	-6	ESE	1	fw	*	f.om	0.0	54	49	—
	Yarmouth ...	30.31	50	ESE	3	c	30.28	-.04	50	48	-1	SE	4	c	4	cg.c	*	52	48	—
Germany & Holland	Cuxhaven ...	30.56	39	E	3	b	30.59	+.08	35	35	+1	ESE	3	b	*	b	*	45	34	—
	Berlin	30.64	36	ESE	2	o	30.72	+.16	32	30	-1	ESE	2	b	*	o	*	43	30	—
	Wiesbaden ...	*	*	*	*	*	30.50	-.03	33	32	-1	E	2	b	*	*	*	41	30	—
	Munich	30.45	29	NE	2	b	30.45	0.0	31	31	+3	E	6	o	*	b	*	32	25	—
	The Helder ...	30.40	42	ESE	2	be	30.41	+.01	38	36	+1	ESE	2	b	1	be	*	48	37	—
Belgium. France &	Brussels ...	*	*	*	*	*	30.33	-.04	42	37	-3	E	1	c	*	o	*	55	37	—
	Cape Gris Nez ...	30.29	52	E	1	f	30.23	-.04	42	41	-10	SE	2	c	2	f	*	54	39	—
	Paris	30.28	46	E	2	be	?	?	35	34	-11	ENE	2	m	*	be	*	53	35	—
	Brest	30.11	52	ESE	2	b	30.13	0.0	50	48	-6	E	1	be	1	b	*	63	46	—
	Lorient	30.13	57	ESE	2	b	30.18	0.0	52	52	-5	E	4	be	3	b	*	66	50	—
	Rochefort ...	30.06	59	SE	3	b	30.14	-.02	51	?	-1	SE	3	be	*	b	*	68	50	—
	Belfort	30.36	52	NE	5	f	30.37	-.02	32	31	-1	ENE	4	m	*	f	*	58	31	—
	Lyons	30.28	47	NNW	1	b	30.31	-.01	41	41	-5	NE	1	f	*	b	*	48	40	—
	Nice	30.25	51	E	1	b	30.28	-.02	50	46	-3	W	o	b	1	b	*	63	48	—
	Perpignan ...	30.17	59	SE	2	b	30.20	-.02	57	56	+3	SE	2	b	*	b	*	68	54	—
	Biarritz ...	30.01	64	E	3	o	30.01	-.05	59	56	+4	SE	3	o	4	o	*	70	53	—
Peninsula	Corunna ...																*			
	Lisbon	29.99	56	NNW	2	o	30.06	+.03	56	53	-3	N	3	b	*	b.o	*	64	54	0.16
	Azores (P. Delgada)	30.37	62	WSW	4	o	30.35	+.05	64	61	+9	SW	5	c	4	c.o	*	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, 10TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

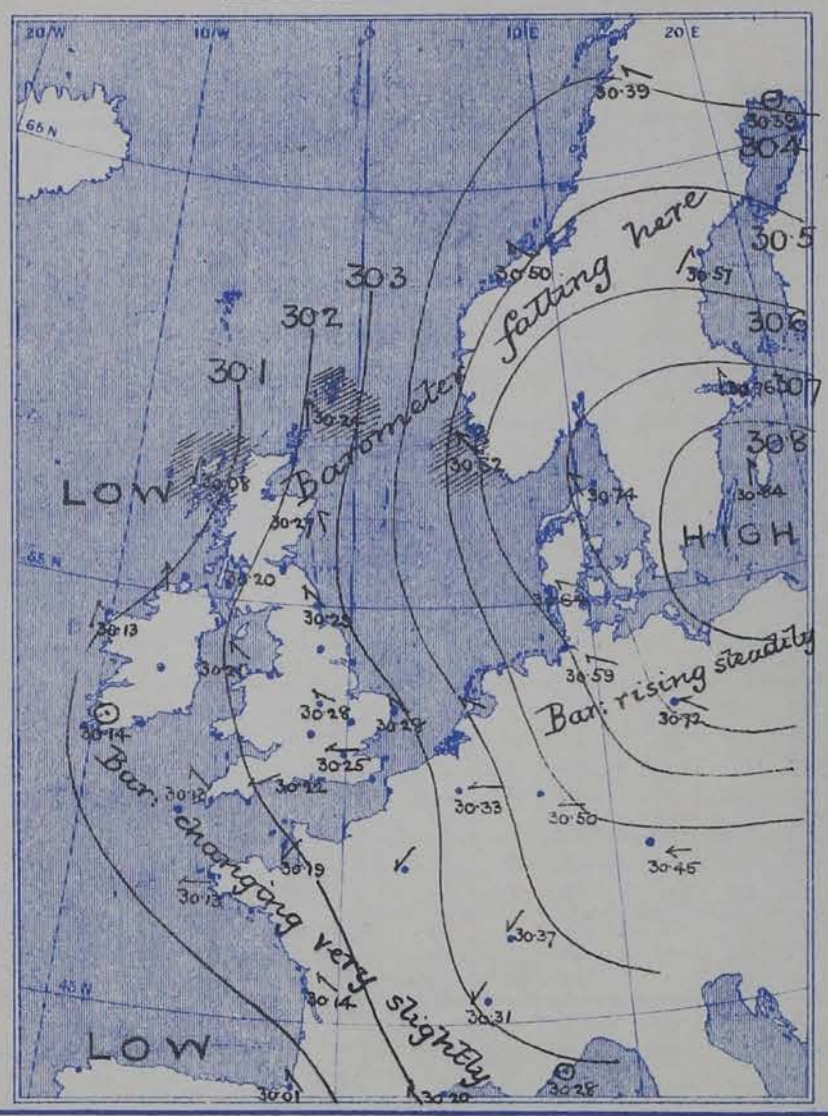
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▦

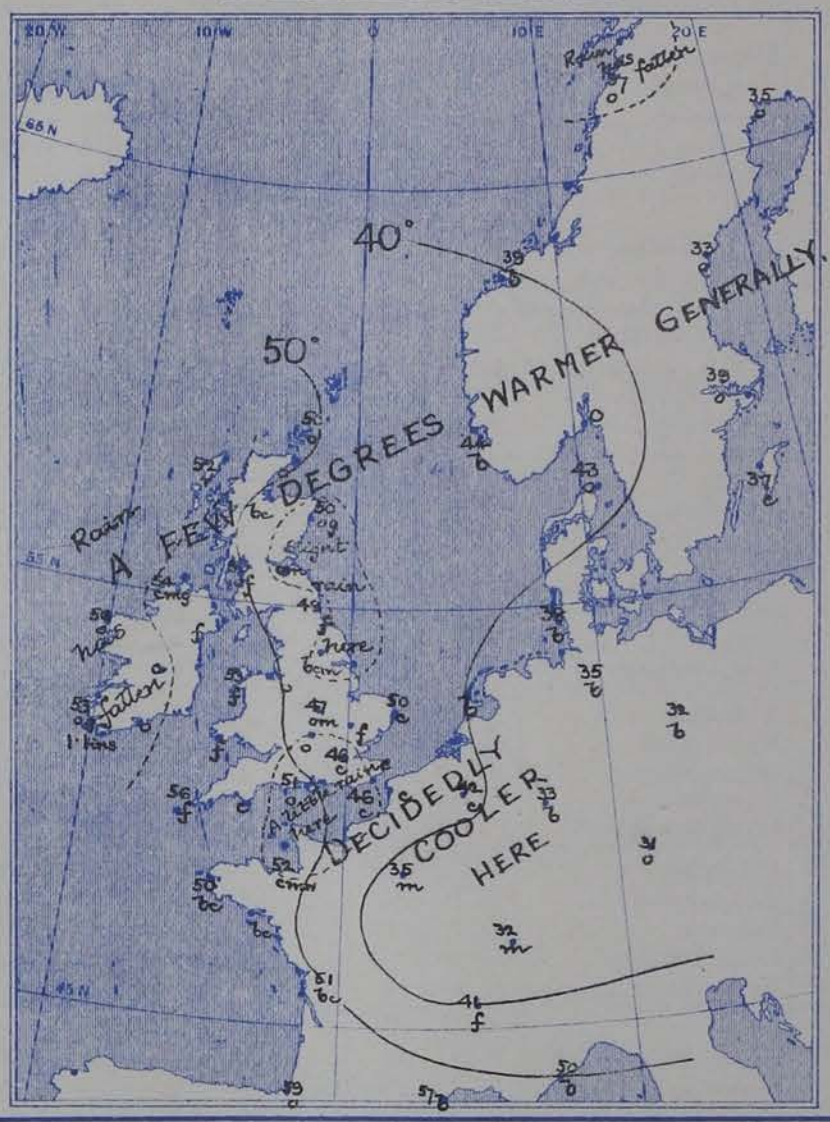


TEMPERATURE & WEATHER.

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.


20 W
10 W
0
10 E
20 E
65 N
55 N
45 N
40°
50°
A FEW DEGREES WARMER GENERALLY.
DECIDEDLY COOLER HERE
Rain has fallen
Rain
Light rain here
Heavy rain here
Rain
Rain
Rain

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.84 ins. at Wisley, and exceeding 30.6 ins at all the stations lying to the E.ward of the North Sea.
Lowest below 30.1 ins. over the Hebrides, and also over the SW. of France.
Gradients somewhat steep, for SE.ly winds, over the North Sea, slight and irregular over our Islands.
Barometer rising decidedly over the Baltic, falling over Scandinavia and Scotland, changing very little and irregularly elsewhere.

TEMPERATURE

Highest 59° at Biarritz, 56° at Scilly, 54° at Malin Hd., 51° at Wick.
Lowest (1) 31° to 35° at the German stations, 33° at Karlstad and Hernösand; (2) 42° at Nairn, 46° in London.
It had fallen rather decidedly over England during the night, and the air has become less humid than of late.

WIND

Light from between E. and NE. over Germany and France, and from SE. over England;
S.ly over Scotland and Ireland, SE.ly over Norway.
At Valencia a calm was reported.

WEATHER

Fine and bright over Germany, fair over France and the SE.rn counties of England, foggy on the shores of St. George's Channel and the Irish Sea.
Bright Sunshine recorded yesterday was slight at the Irish stations and at Stornoway, at the English stations there was none. A little rain fell at several of our stations yesterday, and at Valencia (Ireland) there was a heavy fall in the night.

SEA

Still rough in the N.; it was moderate in the E. slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the E. is moving southwards and a depression is approaching Norway from the W.ward. The other changes are not well developed at present.

FORECASTS

For the 24 hours ending at NOON on 11TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly and SW.ly winds, occasional rain.	6 SCOTLAND WEST	S.ly winds, mild and changeable, possibly shifting to NW. later, some showers, cooler.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SE.ly and variable winds; mild, fair as a whole; cooler in morning.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.59	48	46	SE	6	b	4
Sumburgh Head	30.34	50	50	S	2	o	5
Stornoway	30.21	53	50	SE	3	o	3
Aberdeen	30.35	51	51	SSE	2	dfg	5
Shields	30.35	52	52	SE	1	of	3
Ardrossan	30.28	54	53	NE	2	cf	2
Malin Head ...	30.11	55	54	SSE	6	o	2
Belmullet	30.08	57	55	S	2	c	*
Holyhead	30.25	61	57	2	o	c	o

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.10	57	55	SSE	3	ov	4
Scilly	30.15	57	56	ESE	3	f	4
Jersey	30.20	61	59	ENE	4	fc	3
Hurst Castle ...	30.25	56	55	ENE	2	bcnr	1
Dungeness ...	30.28	53	53	E	1	f	o
North Foreland	30.31	53	52	SE	2	fc	2
London (Westminster)	30.29	56	53	2	o	ogmw	*
Yarmouth ...	30.31	51	50	E	3	cg	3
Rochefort ...	30.08	68	63	SE	3	b	*

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

Weather in morning fine and bright over Finland, Scandinavia and some parts of Germany, as well as over the W. of France, the Adriatic, Italy and the southern shores of the Mediterranean; gloomy and foggy over the British Islands as a whole, with rain in several places, dull over Russia, with snow at St. Petersburg. A little rain falling late at several of our own stations, a considerable quantity in the S. of Ireland, and a heavy fall at Valencia during the night.

Temperature fallen fast over Nrn Europe and over some parts of France, risen over England. Morning readings highest 66° at Algiers and Bilbao, 63° at San Fernando, 57° at Scilly, 56° at Parsonstown, 51° at Wick. Lowest (1) 11° at Klarkov, 14° at Moscow, 18° at Helsingfors, and much below the freezing point over Russia generally; (2) 26° at Karlstad; (3) 28° at Munich, 30° at Vienna and at Münster. Rising later to 60° and more at several of our Wrn and NWrn stations, to 63° at Brest, and to 70° at Biarritz. Falling over England at night.

Wind very light, and anticyclonic over Continental Europe as a whole, light from between E. and SE. over England, more Sly and moderate in force, over Ireland and the east of Scotland – strong at Malin Head. Very little change in direction later, but falling light over Ireland.

Barometer highest 30.6 ins. and more over Finland and the Gulf of Bothnia and exceeding 30.4 ins. over Scandinavia, central Europe and the North Sea. Lowest below 30.2 ins. over central Russia, and below 30.1 ins. over the Wrn parts both of Ireland and of the Spanish Peninsula. Rising later over Germany, falling over Spain, France and England.

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 NOVEMBER 11TH 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·28	33	Z	0	bc	30·10	−·49	34	33	−1	Z	0	bc	*	bc	*	39	27	—
	Hernösand ...	30·44	27	S	2	b	30·23	−·34	30	28	−3	S	2	b	*	b	*	39	25	—
	Stockholm ...	30·66	40	S	2	0	30·52	−·24	39	37	0	SW	4	0	*	0	*	41	34	—
	Wisby	30·77	39	SW	6	0	30·66	−·18	34	34	0	WNW	8	0	*	0	*	41	34	—
	Karlstad ...	29·65	41	SSW	4	0	30·51	−·25	39	36	+6	SSW	4	0	*	0	*	*	*	—
	Bodö	30·29	46	SW	2	0	29·95	−·44	48	44	+11	SW	6	0	3	0	*	48	36	0·08
	Christiansund ...	30·34	44	SSE	1	0	30·11	−·39	45	43	+6	WSW	3	†	4	0	*	45	39	—
	Skudesnaes ...	30·48	48	SE	8	0	30·34	−·28	43	41	−1	SE	8	0	5	0	*	48	34	*
	Færder (Christiania Fjord)	30·65	42	SW	3	0	30·49	−·20	40	37	−1	S	4	c	3	0	*	43	39	0·04
	Skagen (The Scaw)	30·63	43	SW	3	0	30·51	−·23	41	39	−2	SW	3	bc	0	0	*	45	39	0·04
	Fanö	30·56	35	ESE	4	b	30·43	−·21	30	28	−8	SE	4	b	*	b	*	46	30	—
	Sumburgh Head	30·10	50	S	4	0	30·06	−·18	48	47	−2	Z	0	0	5	0	*	51	45	0·02
	Stornoway ...	30·03	51	WSW	4	0	30·05	−·03	40	40	−12	W	2	0	2	†0	0·0	52	37	0·04
	Wick	30·07	49	S	2	c	30·09	−·09	46	45	−5	NW	1	0	3	c	*	52	43	0·01
	Nairn	30·10	47	Z	0	b	30·09	−·10	43	43	+1	Z	0	f	1	b	*	59	37	—
	Aberdeen ...	30·17	50	SSE	3	0g	30·11	−·16	48	47	−2	SW	1	bcm	4	0gg.0g	0·0	51	48	—
	Leith	30·18	50	Z	0	0	30·11	−·12	49	49	−1	Z	0	0m	*	0	*	53	47	—
	Shields	30·21	50	SE	1	cf	30·17	−·12	42	42	−7	SSW	2	cf	2	cf	*	52	39	—
	Spurn Head ...	30·21	50	SE	4	c	30·18	−·10	44	43	−6	WSW	1	bc	3	c	*	51	41	—
	York	30·21	50	E	1	0	30·20	−·09	40	40	−7	E	1	f	*	0	0·0	52	37	—
	Loughborough ...	30·23	48	E	1	c	30·23	−·05	32	32	−15	W	1	f fbc	*	cm.bf	*	52	32	—
British Islands.	Ardrossan ...	30·16	52	NNE	1	0f	30·11	−·09	52	52	+2	NE	1	0fbc	2	0.dfb.of	*	52	49	0·02
	Malin Head ...	30·10	52	SW	1	†	30·07	−·05	50	50	−4	SE	1	c	0	†.f	*	54	49	0·12
	Belmullet ...	30·12	52	S	1	c	30·06	−·07	50	48	−6	SE	1	0	*	c	*	56	47	0·01
	Donaghadee ...	30·16	54	S	2	cmw	30·12	−·08	54	54	0	SSW	3	mw	1	cmw	*	54	53	—
	Liverpool (Bidston)	30·20	48	ESE	1	0	30·18	−·07	46	44	−4	ESE	1	0	?	†.0	*	50	46	—
	Holyhead ...	30·17	55	Z	0	fw	30·16	−·05	53	52	0	S	1	cf	0	fg.fw	*	56	51	—
	Parsonstown ...	30·18	53	SE	1	0	30·11	−·05	50	49	−4	Z	0	0	*	of.0f	0·5	58	50	0·06
	Valencia ...	30·14	52	Z	0	0m	30·09	−·05	53	52	0	SSE	1	0gf	2	0dbc.m	4·1	57	46	0·02
	Roche's Point ..	30·15	53	SSE	2	m	30·12	−·03	50	49	−5	SSW	1	c	3	f.m.f	*	56	48	—
	Pembroke (St. Ann's Hd.)	30·17	52	SSE	2	0	30·18	−·01	53	52	0	SSW	2	0g	2	0	0·0	56	52	—
	Scilly	30·13	52	E	1	0m	30·15	+·02	55	54	−1	ESE	2	0m	1	f.mw	0·0	57	52	—
	Prawle Point ...	30·19	51	ENE	3	c	30·22	+·02	48	47	−4	NE	2	c	2	c	*	55	45	—
	Jersey (St. Aubin's)	30·16	52	Z	0	bm	30·23	+·04	52	52	+2	Z	0	0m	0	b.bm.fbc	*	60	47	—
	Hurst Castle ...	30·20	50	E	2	bcm	30·22	0·0	43	42	−8	N	1	0m	1	0m.bcm	*	53	39	—
	Dungeness ...	30·20	49	ESE	3	c	30·19	−·07	51	50	+5	SSE	2	0m	2	c	*	51	46	—
	North Foreland	30·23	50	SE	4	c	30·21	−·06	47	45	−1	SW	1	0	1	c	*	53	48	—
	London (Brixton) ...	30·21	45	SE	2	bm	30·22	−·03	34	34	−12	Z	0	f	*	c.bm	0·1	52	33	—
	Oxford	30·23	41	N	1	f	30·22	−·03	38	38	−10	Z	0	f	*	c.f	*	51	33	0·01
	Cambridge ...	30·23	45	ESE	1	fm	30·22	−·05	31	31	−14	ESE	1	f	*	c.m	0·5	53	29	—
	Yarmouth ...	30·21	49	SE	3	bc	30·20	−·08	45	44	−5	SE	3	bcf	4	bc	*	51	40	—
Germany & Holland.	Cuxhaven ...	30·32	36	E	4	b	30·41	−·18	25	÷	−10	SE	3	bc	*	b	*	43	25	—
	Berlin	30·70	30	ESE	4	b	30·59	−·13	24	22	−8	SE	3	b	*	b	*	34	23	—
	Wiesbaden ...	*	*	*	*	*	30·43	−·07	30	30	−3	E	2	bc	*	*	*	46	28	—
	Munich	30·42	28	NE	4	b	30·44	−·01	27	27	−4	E	2	b	*	b	*	39	26	—
	The Helder ...	30·33	39	E	2	b	30·26	−·15	32	32	−4	SE	1	b	1	b	*	45	34	—
Belgium.	Brussels ...	*	*	*	*	*	30·27	−·06	40	38	−2	SE	3	0	*	c	*	53	35	—
	Cape Gris Nez ...																*			
	Paris	30·23	43	E	1	b	30·27	+·02	39	39	+4	SE	1	f	*	b	*	52	35	—
	Brest	30·15	52	N	1	m	30·17	+·04	53	52	+5	E	1	f0	2	m	*	63	45	—
	Lorient	30·15	52	S	1	c	30·20	+·02	51	51	−1	E	2	m	2	c	*	66	50	—
France &	Rochefort ...	30·12	55	ESE	1	c	30·16	+·02	49	47	−2	E	4	0	*	bc.c	*	69	46	—
	Belfort	30·35	35	ENE	6	m	30·40	+·03	30	30	−2	Z	0	m	*	m	*	40	27	—
	Lyons	30·30	47	W	1	b	30·39	+·08	38	38	−3	SE	1	b	*	b	*	54	38	—
	Nice	30·34	50	Z	0	b	30·45	+·17	42	39	−8	NE	4	b	5	b	*	59	41	—
	Perpignan ...	30·26	56	SE	2	b	30·32	+·12	53	54	0	SE	2	0	*	b	*	62	53	0·12
	Biarritz ...	30·04	59	Z	0	0	30·12	+·11	56	53	−3	SE	3	bc	2	0	*	63	54	—
Peninsula.	Corunna ...																*			
	Lisbon	30·07	61	NNW	4	0	30·12	+·06	56	53	0	N	3	b	*	0	*	64	53	—
	Azores (P. Delgada)	30·32	64	NNW	4	c	30·30	−·05	64	63	0	WNW	4	m	4	c	*	64	63	0·04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

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Bright Sunshine yesterday Southport 0·0 hrs;

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FOR THURSDAY, 11th NOVEMBER, 1897.

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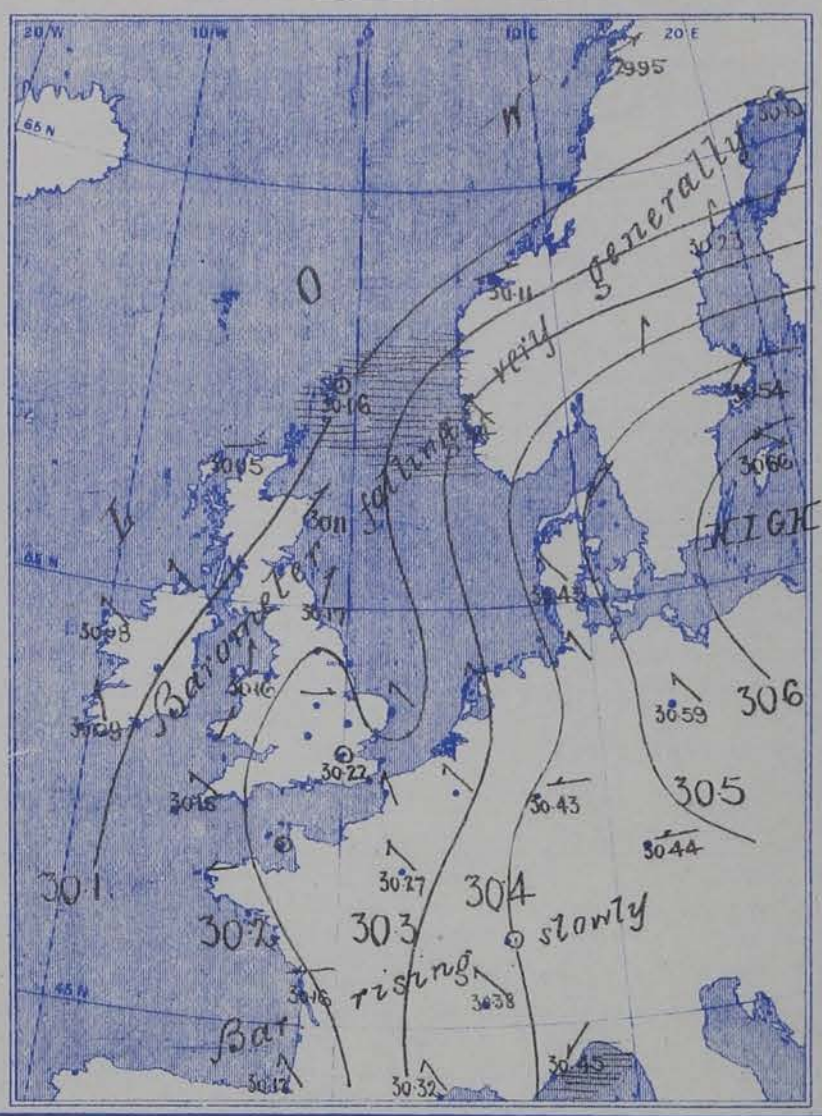
BAROMETER—Isobars are drawn for each tenth of an inch.

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.

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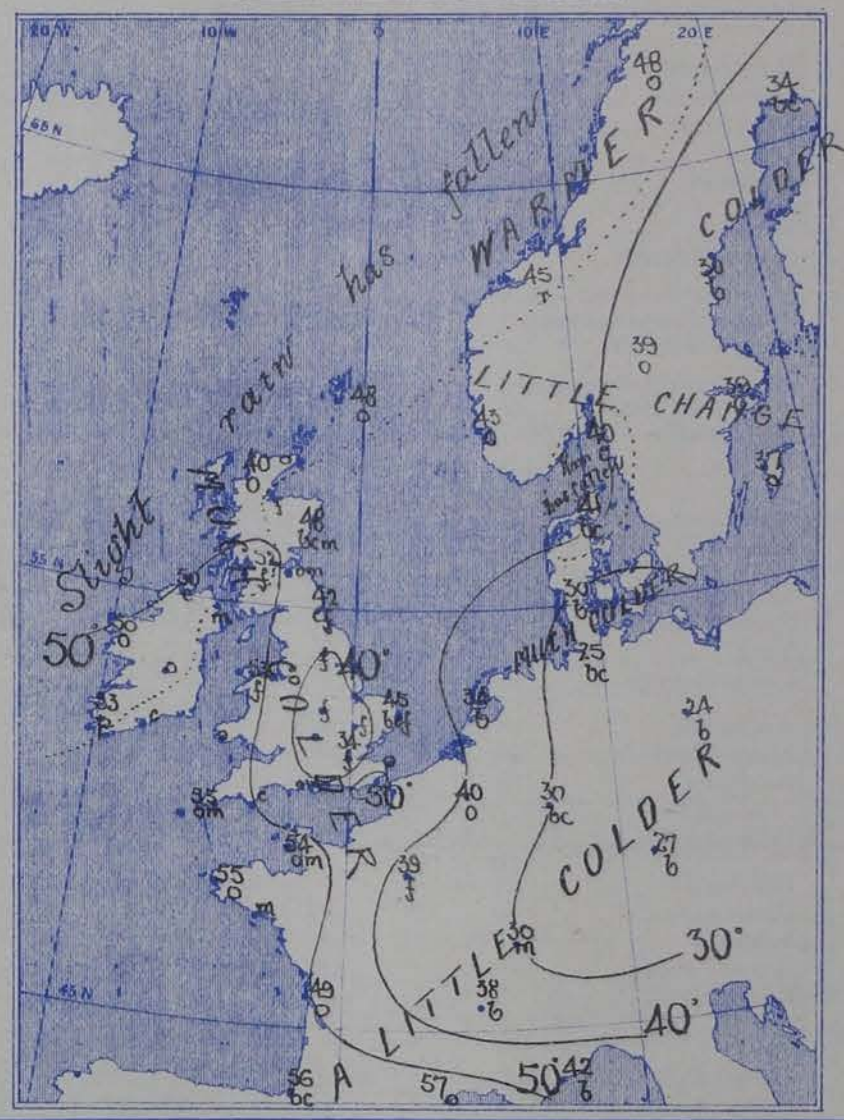

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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. and more over the Baltic, and exceeding 30·3 ins. over central Europe and all the N^rn. parts of Scandinavia.

Lowest. Below 30·0 ins. over Finmark, and below 30·1 ins. over the NW^rn. part of Scotland & Ireland.

Gradients very slight over our Islands, but were gradually becoming favourable for winds from a S. ^by quarter. Barometer rising slightly over France, falling generally elsewhere.

TEMPERATURE

Highest 57° at Perpignan, 55° at Sicily, 53° at Valencia (Ireland) and at Holyhead, 50° at Malin Head.

Lowest (1) 31° to 38° over the S^rn. half of our Midland Counties; (2) 24° at Berlin, 25° at Cuxhaven, 27° at Munich, 30° at Wiesbaden and Belfort.

It had fallen from 10° to 15° over the Midland counties, and had been as low as 27° on the grass in London and 35° at Oxford during the night.

WIND

(1) S. ^by to SW. ^by, moderate to strong, over Scandinavia

(2) SE. ^by to S. ^by, light and very variable over the greater part of our Islands, but calm in the SE. of England.

(3) E. ^by, moderate to light over the Bay of Biscay.

WEATHER

Fine and bright over Sweden and central Europe, very foggy over Gt. Britain, cloudy over Ireland showery at Valencia (Ireland)

Slight rain had fallen at several of the Irish, Scotch and Norwegian stations. Bright Sunshine recorded yesterday exceeded 3 hrs. at several of our S^rn. stations, and 4 hrs. at Valencia (Ireland); in other districts there was little or none.

SEA

Slight rough in the far N, moderate in the E., smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the E. again shows some sign of giving way while low-pressure areas are approaching the extreme W^rn. and N^rn. coasts of our Islands and Europe, and will probably bring about milder and less foggy weather before long.

FORECASTS

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

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Wind backing S^rly and increasing, dull, rainy, unsettled.
1	SCOTLAND EAST	SW. ^by breezes, light; fair, mild
2	ENGLAND N.E.	
3	ENGLAND EAST	Same as N^o. 5.
4	MIDLAND COUNTIES	Same as N^os. 1 and 2.
5	ENGLAND SOUTH	Calms and fogs followed by SW. ^by airs or light breezes, and fine weather.

DISTRICTS.		FORECASTS.
6	SCOTLAND WEST	Same as N^o. 0.
7	ENGLAND N.W.	S. ^ly winds, freshening; fair to showery.
8	ENGLAND S.W.	
9	IRELAND NORTH	Increasing S. ^ly winds; rainy, unsettled.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·55	46	44	SE	8	o	5
Sumburgh Head	30·16	50	49	S	4	o	6
Stornoway	30·04	53	52	SSW	6	+	6
Aberdeen	30·19	51	49	SSE	5	ogq	6
Shields	30·24	51	49	SE	2	c	2
Ardrossan	30·16	52	52	S	1	odf	1
Malin Head ...	30·08	53	53	S	4	+	2
Belmullet	30·12	56	55	SW	1	c	*
Holyhead	30·19	55	53	S	1	fg	o

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·11	56	54	Z	o	bc	3
Scilly	30·13	55	55	SE	3	fb	3
Jersey	30·15	58	55	ESE	2	fb	2
Hurst Castle ...	30·18	52	50	NE	3	om	2
Dungeness ...	30·19	50	47	E	3	c	2
North Foreland	30·23	50	45	SE	3	c	2
London (Westminster)	30·20	51	46	SE	2	cm	*
Yarmouth ...	30·25	51	48	SE	4	bc	4
Rochefort ...	30·18	69	63	ESE	1	bc	*

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

Weather in morning very quiet over nearly the whole of continental Europe - clear and bright in many places, foggy or dull in others; fair over the British Islands as a whole but foggy and dull in the W., raing at Stornoway. Some rain falling later at several of the W.ly and extreme N.ly stations, but no decided change elsewhere.

Temperature fallen fast over Russia and central Europe, and less decidedly at Paris and in many parts of our Islands. Morning readings highest 66° at Algiers, 63° at Spax, 59° at Biarritz, 56° at Scilly and Belmullet, 52° at Stornoway. Lowest 5°R. at Moscow, 8° at Kharkov, 17° at Warsaw, much below the freezing point over Russia and Poland generally; 32° at Berlin, 33° at Wiesbaden and also at Karlstad. Again rising to 60° at Jersey during the day & to 63° at Brest and Biarritz, but not exceeding 52° at Paris, or 34° at Berlin. Succeeding night colder over England.

Wind antiscyclonic in direction, light to moderate in force over Europe as a whole, as well as over England; S.^{ly} over Ireland and Scotland, SE.^{ly} over Norway, and blowing very strongly at Skudesnaes.

Barometer highest 30·8 ins. and more over N. Germany, the Baltic and the Baltic provinces of Russia, and exceeding 30·3 ins. over almost the whole of Continental Europe. Lowest below 30·1 ins. in the Hebrides, as well as over the Spanish peninsula and the N. of Africa. Falling over the Shetland Islands and Scandinavia later, changing little and irregularly elsewhere.

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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DAILY WEATHER REPORT

for 8 a.m. on Friday, 12th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.84	38	SW	4	bc	29.67	-.43	39	36	+ 5	SW	4	c	*	bc	*	41	28	—
	Hernösand ...	30.10	33	7	0	b	29.94	-.29	36	33	+ 6	SW	2	c	*	b	*	41	23	—
	Stockholm ...	30.38	33	SW	2	b	30.23	-.29	30	29	- 9	S	2	bc	*	b	*	41	30	—
	Wisby	30.49	36	SW	4	b	30.30	-.36	32	31	- 5	SSE	4	b	*	b	*	39	32	—
	Karlstad ...	30.36	35	SSW	4	c	30.13	-.38	37	34	- 2	S	2	0	*	c	*	*	*	—
	Bodö	29.69	47	SW	8	0	29.62	-.33	38	37	- 10	NW	4	r	2	0	*	48	36	0.43
	Christiansund ...	30.00	47	WSW	1	0	29.80	-.31	46	44	+ 1	7	0	0	3	0	*	48	37	—
	Skudesnaes ...	30.24	44	SE	8	c	29.93	-.41	44	41	+ 1	SE	6	c	5	c	*	44	41	*
	Færder (Christiania Fjord)	30.32	42	SW	3	0	30.08	-.41	39	36	- 1	SSW	4	c	3	0	*	43	39	—
	Skagen (The Scaw)	30.30	41	SSW	4	c	30.10	-.41	39	38	- 2	SW	3	c	0	c	*	43	32	—
	Fanö	30.25	30	SE	4	b	30.09	-.34	34	33	+ 4	SE	4	0	*	b	*	37	28	—
British Islands.	Sumburgh Head	29.96	47	S	1	0	29.47	-.59	50	50	+ 2	S	3	0	5	c, 0	*	52	47	0.02
	Stornoway ...	29.87	50	S	3	d	29.27	-.78	51	50	+ 11	SSW	7	r	7	c, 0, d	1.1	52	37	0.50
	Wick	29.93	49	S	2	0	29.37	-.72	51	50	+ 5	S	5	r	4	0	*	52	44	0.05
	Nairn	29.92	46	W	1	c	29.36	-.73	55	52	+ 12	SW	1	0	1	c	*	55	40	0.01
	Aberdeen ...	30.00	50	SSE	3	bc	29.51	-.60	50	49	+ 2	S	9	orqw	6	cm, bc	0.7	54	47	0.01
	Leith	30.00	50	7	0	0	29.49	-.62	51	53	+ 8	S	4	0	*	0	*	57	48	—
	Shields	30.08	49	SSW	1	of	29.72	-.45	48	47	+ 6	S	4	of	3	of	*	50	41	—
	Spurn Head ...	30.13	40	S	3	fw	29.89	-.29	47	47	+ 3	S	4	f	4	m, fw	*	47	37	—
	York	30.11	40	SE	1	f	29.84	-.36	48	47	+ 8	S	3	0	*	f	0.0	48	36	0.01
	Loughborough ...	30.16	42	SE	1	f	29.93	-.30	51	50	+ 19	SSW	3	ohv	*	of, om	*	51	31	—
	Ardrossan ...	29.98	53	SE	3	of	29.48	-.63	53	53	+ 1	S	7	rmw	5	of	*	53	51	0.35
	Malin Head ...	29.85	51	S	6	ow	29.37	-.70	55	54	+ 5	S	6	ow	3	bc, ow	*	55	49	0.02
	Belmullet ...	29.87	52	S	5	r	29.52	-.54	55	55	+ 5	WSW	3	0	*	0, r	*	56	50	0.34
	Donaghadee ...	29.97	52	SSW	4	c	29.55	-.57	54	54	0	SSW	6	0	4	c	*	56	50	0.26
	Liverpool (Bidston)	30.10	50	ESE	1	0	29.77	-.41	52	50	+ 6	SE	3	0	3	ow	*	52	46	0.02
	Holyhead ...	30.05	54	S	2	dfg	29.69	-.47	55	54	+ 2	SSW	7	rw	5	dfg	*	55	52	0.14
	Parsonstown ...	29.96	52	SE	1	0	29.51	-.54	57	55	+ 7	S	1	or	*	c, 0, r	1.9	57	49	0.56
	Valencia ...	29.88	52	SSE	4	or	29.56	-.53	58	57	+ 5	S	6	rmg	6	cmg, or	0.3	58	51	0.88
	Roche's Point ..	30.02	55	S	5	c	29.66	-.49	57	55	+ 7	SSW	8	r	5	c, r	*	57	50	1.10
	Pembroke (St. Ann's Hd.)	30.09	54	SSW	2	0	29.81	-.37	54	53	- 1	SW	6	r	5	0	0.0	56	53	0.16
	Scilly	30.08	55	SSE	3	c	29.90	-.25	57	56	+ 2	SSW	5	opw	3	ow, cw	0.0	57	53	0.02
	Prawle Point ...	30.16	52	ESE	2	0	30.00	-.22	55	55	+ 7	SSW	5	cw	4	c, owr	*	56	47	0.03
	Jersey (St. Aubin's)	30.18	55	ESE	3	bw	30.11	-.12	54	53	0	SSW	5	cwr	4	bw, 0	*	59	51	—
	Hurst Castle ...	30.18	48	7	0	ow	30.04	-.18	56	54	+ 13	SSW	4	ow	3	ow	*	56	43	0.01
	Dungeness ...	30.18	47	W	2	f	30.07	-.12	55	54	+ 4	SSW	4	c	3	c, f	*	55	46	—
	North Foreland	30.22	46	SW	1	w	30.07	-.14	52	51	+ 5	S	2	0	2	0, w	*	52	44	—
	London (Brixton) ...	30.19	41	NW	1	ow	30.05	-.17	52	51	+ 18	SSW	2	ow	*	fg, ow, cw	0.0	52	34	—
	Oxford	30.18	44	WSW	2	0	29.99	-.23	52	51	+ 14	S	3	0	*	0, f	*	52	38	—
	Cambridge ...	30.17	41	SSW	1	f	29.99	-.23	50	50	+ 19	S	3	f	*	f	0.0	50	29	—
	Yarmouth ...	30.14	47	7	0	bw	30.02	-.18	49	48	+ 4	SW	3	f	3	bc	*	51	38	—
Germany & Holland.	Cuxhaven ...	30.28	32	SSE	2	b	30.13	-.28	36	?	+ 11	7	0	f	*	b	*	37	25	—
	Berlin	30.42	29	SE	4	b	30.28	-.31	30	28	+ 6	SE	2	0	*	b	*	36	24	—
	Wiesbaden ...	*	*	*	*	*	30.33	-.10	37	35	+ 7	E	2	0	*	*	*	37	30	—
	Munich... ..	30.40	25	7	0	b	30.39	-.05	26	26	- 1	NW	1	c	*	b	*	32	23	—
	The Helder ...	30.19	40	SSE	1	0	30.08	-.18	48	47	+ 14	SW	1	f	1	0	*	48	34	—
France & Belgium.	Brussels	*	*	*	*	*	30.17	-.10	41	40	+ 1	SE	4	b	*	0	*	51	39	—
	Cape Gris Nez ...	30.17	52	WSW	1	w	30.09		48	46		SSW	4	c	4	w	*	54	45	—
	Paris	30.27	48	S	2	b	30.22	-.05	48	46	+ 9	SSE	2	bc	*	b	*	61	36	—
	Brest	30.14	55	SE	1	0	30.06	-.11	58	56	+ 3	S	3	c	3	0	*	59	50	—
	Lorient... ...	30.19	52	S	1	c	30.18	-.02	57	57	+ 6	S	3	c	3	c	*	66	48	—
	Rochefort ...	30.15	58	S	3	c	30.20	+.04	48	46	- 1	SE	4	b	*	c	*	59	45	—
	Belfort	30.39	39	E	2	w	30.34	-.06	38	36	+ 8	7	0	w	*	w	*	55	30	—
	Lyons	30.35	48	SE	1	b	30.39	.00	37	37	- 1	ESE	1	b	*	b	*	57	36	—
	Nice	30.39	46	E	6	bc	30.40	-.05	41	38	- 1	E	1	bc	3	bc	*	52	39	—
	Perpignan ...	30.32	56	E	3	r	30.28	-.04	57	55	0	SE	3	r	*	r	*	60	53	0.16
	Biarritz ...	30.08	60	ENE	3	c	30.08	-.04	55	52	- 1	7	0	b	2	c	*	66	50	—
Peninsula.	Corunna ...																*			
	Lisbon	30.14	58	NNW	4	b	30.14	+.02	56	54	0	NNE	3	b	*	b	*	64	55	—
	Azores (P. Delgada)	30.28	64	W	3	r	30.25	-.05	65	63	+ 1	W	4	0	4	r	*	66	63	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 0.0 hrs;

WEATHER CHARTS

FOR FRIDAY, 12TH NOVEMBER, 1897.

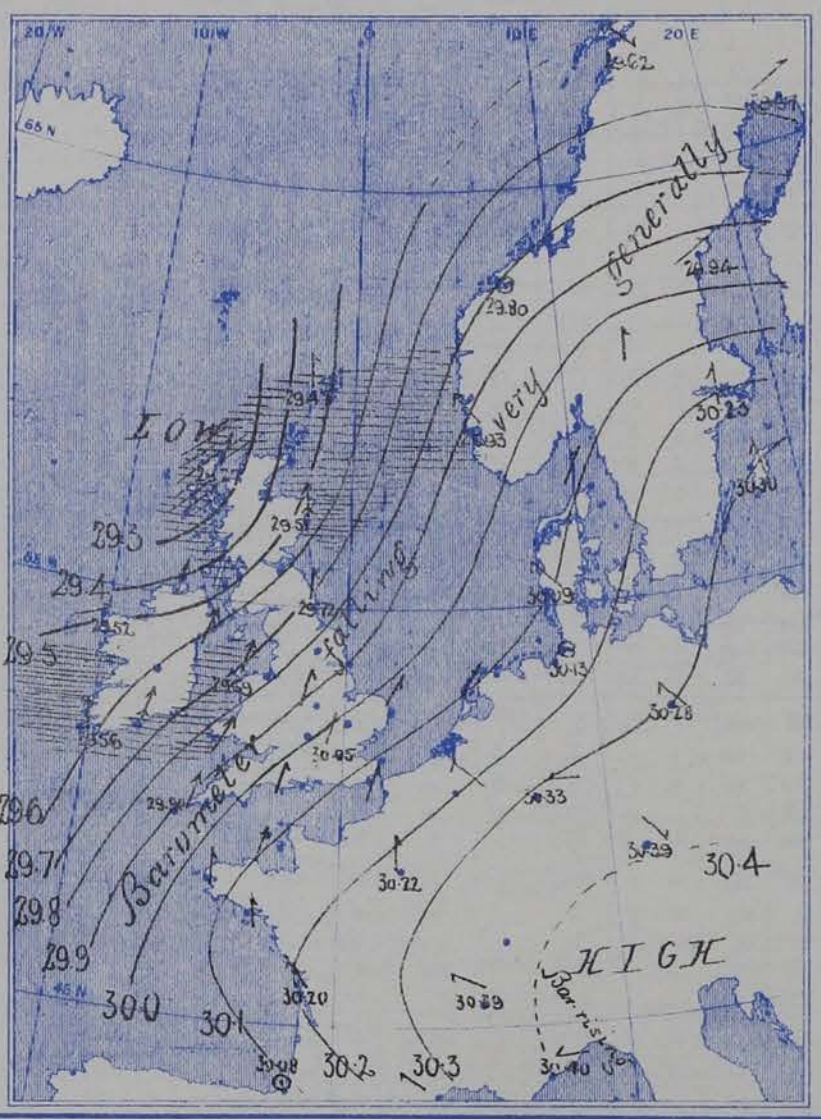
BAROMETER, WIND AND SEA.

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 1 to 4 ; Calm

SEA—Rough : High

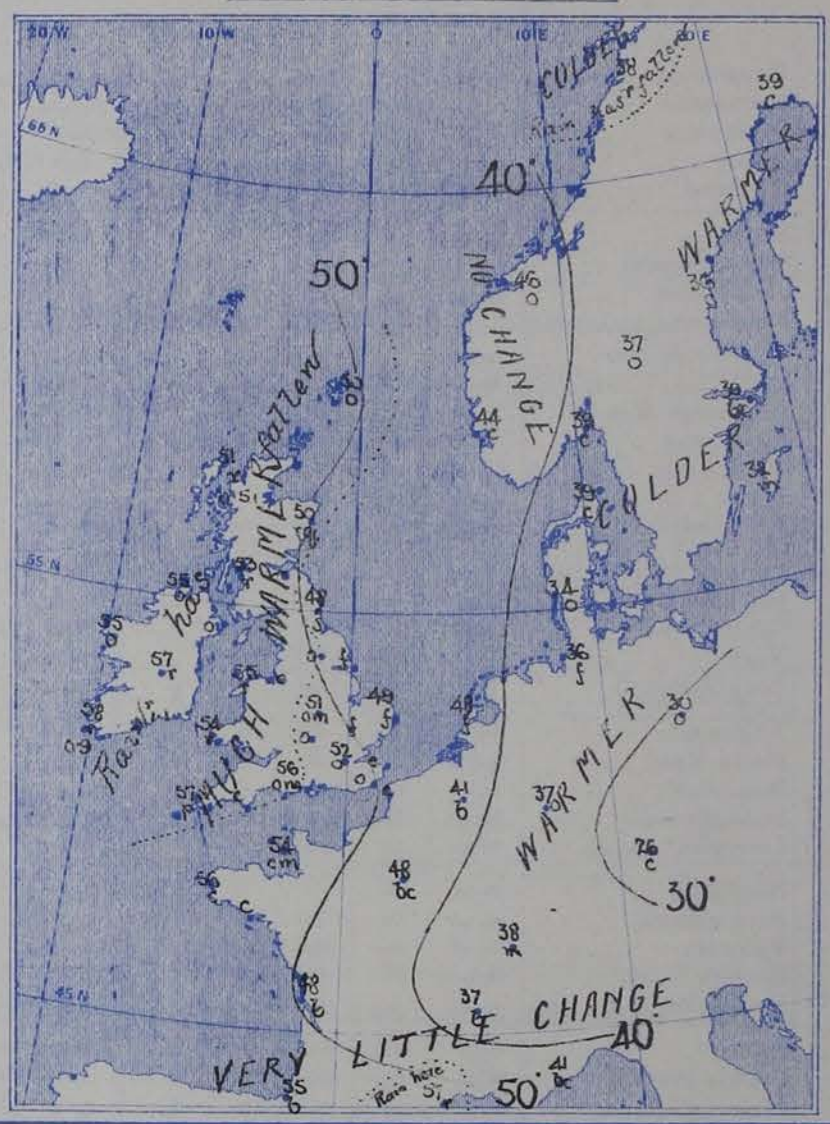


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895.	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 over Germany, Austria and the N. of Italy, and exceeding 30.0 ins. all over France, the SE. of England, the North Sea, Denmark and the S. of Sweden.
Lowest Below 29.3 ins. over the Hebrides and the NW. of Scotland.
Gradients steep and favourable for N. and NW. winds over our Islands.
Barometer falling generally – most in the N. and W. of the United Kingdom.

TEMPERATURE

Highest 55° to 58° along our S. and SW. coasts, 57° at Parsonstown, 55° at Holyhead, Malin H.^d & Nairn.
Lowest (1) 26° at Munich, 30° at Berlin and Stockholm, 34° at Paris, 41° at Brussels and at Nice.
It had risen 19° at Loughborough, 18° in London, 17° at Nairn, and 9° at Paris since yesterday morning, while at Stockholm it had fallen 9°.

WIND

Light and anticyclonic over the Baltic, central and southern Europe; S. over the British Islands, – moderate in the east and southeast of England. Strong to a gale on our W. & NW. coasts.
It was apparently freshening at our southern stations generally.

WEATHER

Mild, damp, and unsettled over the United Kingdom, especially in the W. and N. where rain was falling. The sky was clear in the southeast of France.
Rain had fallen at all our W.^n and N.^n stations, and in some places the fall was large.
Bright Sunshine recorded yesterday was very slight. 1.1 hrs at Stornoway & Llandudno, none at the English stations as a whole.

SEA

Rough in the W. and N., smooth in the SE. but increasing.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of mild showery weather is probable, with strong S. winds, and in many places gales. Our SW.^n, W.^n and NW.^n coasts have all been warned – some of them yesterday afternoon.

FORECASTS

For the 24 hours ending at NOON on 13TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	SW. gales moderating; rainy, unsettled.	6 SCOTLAND WEST	SW. and S. gales and strong breezes; squally, rainy, mild at first, cooler later.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	S. winds, strong; squally, rainy, probably a gale in places.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	At 3.45 pm yesterday to districts 6, 8, 9 and 10, and at 10.30 am today to districts 1, 5, 7 and 8. 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·28	44	42	SE	7	o	5
Sumburgh Head	30·01	50	48	S	1	c	4
Stornoway	29·97	51	49	SSW	3	o	2
Aberdeen	30·04	52	50	S	3	cm	4
Shields	30·11	48	47	SSW	2	of	2
Ardrossan	30·04	53	53	SE	2	of	2
Malin Head ...	29·96	52	50	S	4	bc	o
Belmullet	29·95	54	50	S	3	o	*
Holyhead	30·13	54	53	S	1	dgf	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·98	55	53	SSE	4	og	5
Scilly	30·13	56	54	S	2	om	1
Jersey	30·18	58	56	ESE	3	b	3
Hurst Castle ...	30·19	47	45	NE	1	om	1
Dungeness ...	30·18	52	49	WSW	2	c	1
North Foreland	30·21	48	46	SW	2	o	1
London (Westminster)	30·19	41	40	L	o	fg	*
Yarmouth ...	30·16	48	46	WSW	2	bc	3
Rochefort ...	30·15	58	55	SE	3	o	*

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

Weather in morning very fine and bright over S.E.m and central Europe, as well as in Denmark and the N.m half of Sweden. Very foggy, cloudy and damp over our Islands and their neighbourhood, and showery at Valencia (Ireland). Rain falling later over all our W.m and N.m districts; heavily at several of the Irish stations and at Stornoway. Fog continuing over England over greater part of day.

Temperature fallen fast over England, very rapidly over central and S.E.m Europe. Morning readings highest 65° to 60° at the Algerian stations, 61° at Barcelona and Bilbao, 55° at Scilly, 53° at Valencia and Holyhead, 50° at Malin H.d. Lowest (1) 7° to 14° F. over the S.m half of Russia; 5° at Hermanstadt, 14° at Lemberg and Warsaw, 21° at Vienna, 25° at Cuxhaven, (2) 31° at Cambridge, 32° to 38° over the S.m part of our Midland Counties. Rising a little over England during the day, rapidly during the preceding night.

Wind (1) light and anticyclonic over the central parts of Europe, and light E.ly to N.E.ly over France, (2) moderate to strong from the S.nd over Scandinavia, (3) very light and variable over the British Islands. A S.ly breeze setting in over our W.m coasts later, and freshening considerably.

Barometer highest 30.9 ins. to 30.4 ins. in a large anticyclone covering the central, S.E.m and some of the N.m parts of Europe, and spreading W.wds to England. Lowest below 30.0 ins. over Finmark, and below 30.1 ins. over the N.W.m parts of Scotland and Ireland. Falling decidedly later at our W.m and N.W.m stations.

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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DAILY WEATHER REPORT

for 8 a.m. on Saturday 13th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.62	39	SW	6	o	29.25	−.42	40	38	+ 1	SW	4	s	#	o	#	43	37	0.12
	Hernösand ...	29.66	34	S	6	o	29.38	−.56	39	39	+ 3	S	6	o	#	o	#	39	32	0.08
	Stockholm ...	29.98	35	SSW	4	o	29.81	−.42	43	42	+ 13	S	6	o	#	o	#	43	28	—
	Wisby	30.14	40	SSE	6	o	29.85	−.45	45	43	+ 13	SSW	8	o	#	o	#	45	28	—
	Karlstad ...	29.86	40	SSW	6	r	29.54	−.59	37	37	0	SSW	6	f	#	r	#	#	#	0.04
	Bodö	29.38	33	NE	4	m	29.02	−.60	36	35	− 2	NNE	4	m	2	m	#	38	32	0.28
	Christiansund ...	29.25	47	WSW	2	o	29.24	−.56	45	43	− 1	WSW	5	r	4	o	#	47	45	0.04
	Skudesnaes ...	29.48	? 50	S	9	r	29.33	−.60	51	51	+ 7	SSW	8	rf	6	o,r	#	51	41	#
	Færder (Christiania Fjord)	29.77	45	S	6	o	29.45	−.63	50	50	+ 11	SSW	6	o	4	o	#	50	37	0.08
	Skagen (The Scaw)	29.75	46	SW	5	o	29.60	−.50	51	50	+ 12	SW	4	r	1	o	#	52	37	0.28
	Fanö	29.85	46	SW	4	m	29.73	−.36	47	47	+ 13	SW	4	c	#	m	#	47	34	0.04
British Islands.	Sumburgh Head	29.14	50	S	3	r	29.16	−.31	49	49	− 1	L	0	f	4	r	#	52	46	0.46
	Stornoway ...	29.21	49	WSW	1	bc	29.19	−.08	48	47	− 3	W	1	o	1	o,bc	0.3	53	44	0.15
	Wick	29.25	48	SW	2	c	29.21	−.16	48	47	− 3	W	1	c	2	c	#	51	45	0.08
	Nairn	29.25	55	WSW	1	c	29.21	−.15	48	47	− 7	L	0	o	1	c	#	60	46	0.04
	Aberdeen ...	29.31	54	SSE	3	og	29.23	−.28	51	51	+ 1	SW	2	cgmp	3	ogm,og	0.0	56	50	0.26
	Leith	29.35	54	SW	3	o	29.26	−.23	55	52	− 2	SSW	3	bc	#	o	#	60	54	0.25
	Shields	29.50	58	SSW	4	o	29.37	−.35	56	54	+ 8	SSW	3	o	2	ow,o	#	58	48	—
	Spurn Head ...	29.67	55	S	6	o	29.51	−.38	55	54	+ 8	SSW	5	c	4	c,o,r	#	55	47	0.04
	York	29.62	57	S	5	o	29.46	−.38	56	54	+ 8	S	3	o	#	c,o,r	0.0	58	46	0.22
	Loughborough ...	29.74	57	SW	4	o	29.57	−.36	56	53	+ 5	S	4	oq	#	copq,c	#	58	51	0.03
	Ardrossan ...	29.34	54	S	6	rm	29.30	−.18	52	52	− 1	SSW	3	c	3	rm	#	54	51	0.28
	Malin Head ...	29.31	53	S	5	cp	29.26	−.11	51	50	− 4	SW	5	cp	2	cp	#	55	50	0.04
	Belmullet ...	29.41	54	SSW	1	o	29.36	−.16	51	49	− 4	WSW	1	o	#	o	#	58	49	0.02
	Donaghadee ...	29.39	56	SSW	5	a	29.36	−.19	48	48	− 6	WSW	3	bc	2	r	#	56	48	0.41
	Liverpool (Bidston)	29.59	56	SSW	4	r	29.46	−.31	56	53	+ 4	S	3	o	3	r	#	58	52	0.19
	Holyhead ...	29.53	55	SSW	8	rgqm	29.42	−.27	54	53	− 1	SW	6	o	4	rmq	#	56	53	1.14
	Parsonstown ...	29.41	51	S	2	r	29.40	−.17	48	47	− 9	L	0	bc	#	or	0.0	59	47	0.44
	Valencia ...	29.42	58	SSW	4	rm	29.38	−.18	51	50	− 7	SSE	2	bc	4	om,rm	0.0	58	50	0.65
	Roche's Point ..	29.50	51	SW	8	r	29.44	−.22	54	53	− 3	SW	3	bc	4	r	#	51	52	1.30
	Pembroke (St. Ann's Hd.)	29.62	55	WSW	7	r	29.50	−.31	55	54	+ 1	WSW	5	og	5	r	0.0	56	54	0.83
	Scilly	29.73	51	S	6	o	29.51	−.39	57	56	0	SSW	4	o	5	r,o	0.0	58	55	0.28
	Prawle Point ...	29.84	56	SW	5	o	29.63	−.37	57	56	+ 2	SSW	7	pq	6	o,pq	#	57	47	0.06
	Jersey (St Aubin's)	29.98	57	S	4	og	29.78	−.33	58	56	+ 4	SSE	5	bcm	4	c,og	#	60	53	—
	Hurst Castle ...	29.88	57	SSW	6	o	29.70	−.34	57	55	+ 1	SSW	6	o	3	om,o	#	57	56	—
	Dungeness ...	29.95	56	SSW	5	c	29.78	−.29	55	54	0	SSW	6	c	5	c	#	56	54	—
	North Foreland	29.98	54	S	4	c	29.79	−.28	55	53	+ 3	S	5	c	4	c	#	56	52	—
	London (Brixton) ...	29.88	56	SSW	3	o	29.72	−.33	56	54	+ 4	S	4	or	#	o,q	0.0	56	51	—
	Oxford	29.79	57	SSW	4	o	29.65	−.34	57	54	+ 5	S	4	ow	#	o,q	#	58	52	0.08
	Cambridge ...	29.83	55	SSW	5	oq	29.66	−.33	56	54	+ 6	SSW	5	o	#	oq	0.0	57	48	—
	Yarmouth ...	29.84	54	SSW	4	c	29.69	−.33	54	52	+ 5	SSW	5	cq	4	c	#	55	48	—
Germany & Holland.	Cuxhaven ...	30.01	41	S	1	b	29.88	−.25	44	44	+ 8	S	3	bc	#	f,b	#	45	36	—
	Berlin	30.27	35	L	o	b	30.12	−.16	36	34	+ 6	S	3	bc	#	b	#	39	30	—
	Wiesbaden ...	*	*	*	*	*	30.16	−.18	34	35	− 3	E	2	c	#	*	#	37	28	—
	Munich... ..	30.32	30	SE	3	b	30.25	−.14	33	33	+ 7	SE	1	c	#	b	#	45	26	0.04
	The Helder ...	29.93	48	SSW	5	c	29.78	−.30	48	46	0	SSW	5	bc	2	c	#	50	46	—
Belgium.	Brussels ...	*	*	*	*	*	29.95	−.22	50	48	+ 9	S	5	c	#	b	#	52	41	—
	Cape Gris Nez...																#			
	Paris	30.13	50	SSE	2	b	30.01	−.21	47	46	− 1	SSE	2	b	#	b	#	60	45	—
	Brest	29.95	58	SSW	4	o	29.68	−.38	59	57	+ 1	S	b	o	5	o	#	59	54	—
	Lorient... ...	29.97	57	SSE	4	o	29.80	−.38	59	58	+ 2	S	4	c	5	o	#	61	46	—
France &	Rochefort ...	30.08	55	SSE	3	b	29.95	−.25	52	51	+ 4	SE	4	b	#	b	#	63	48	—
	Belfort	30.24	45	SW	2	bc	30.18	−.16	41	39	+ 3	L	o	b	#	bc	#	58	37	—
	Lyons ...	30.26	51	S	2	o	30.15	−.24	53	51	+ 16	S	3	c	#	o	#	55	37	—
	Nice	30.38	48	L	o	r	30.31	−.09	47	46	+ 6	L	o	o	4	r	#	52	41	0.04
	Perpignan ...	30.24	57	E	3	r	30.11	−.17	58	57	+ 1	SE	3	r	#	r	#	59	55	0.16
	Biarritz ...	30.04	61	L	o	b	29.96	−.12	54	50	− 1	SE	4	b	2	b	#	66	48	—
Peninsula.	Corunna ...																#			
	Lisbon	30.08	59	N	2	c	30.01	−.13	58	57	+ 2	ENE	2	o	#	c	#	64	55	—
	Azores (P. Delgada)	30.13	63	W	3	c	30.08	−.17	61	56	− 4	NW	3	c	3	c	#	66	61	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, 13TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

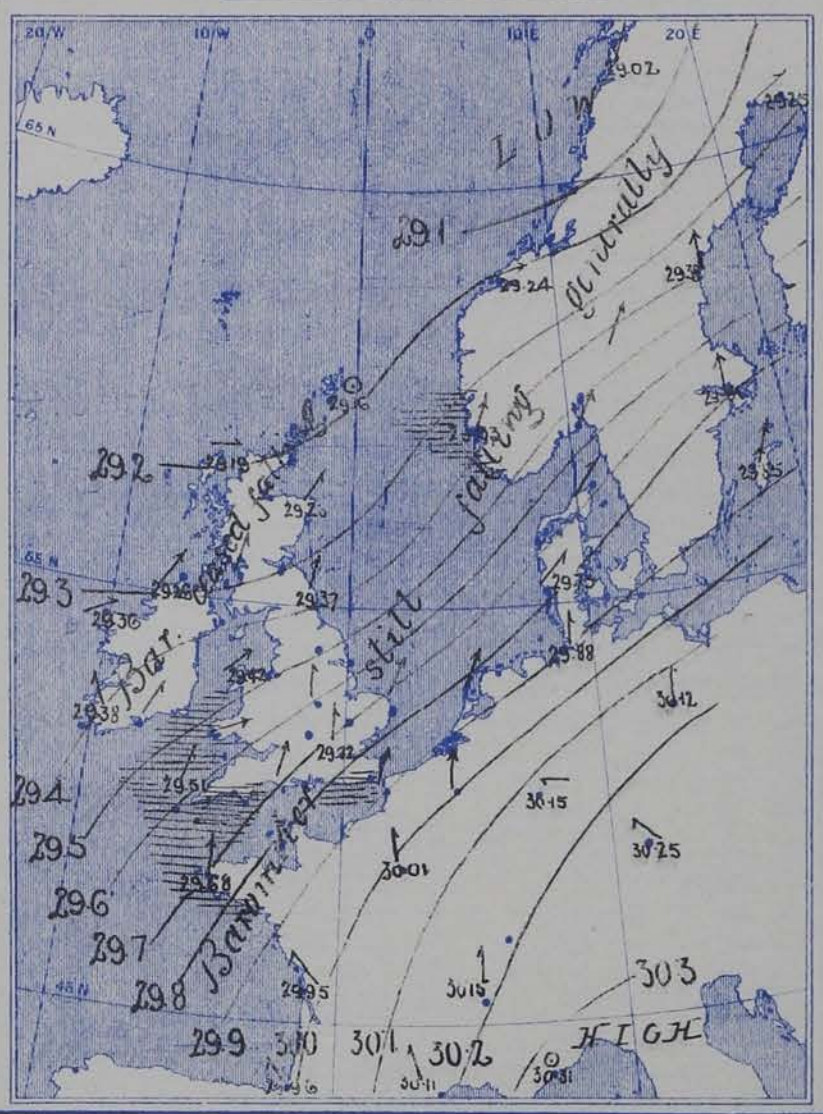
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

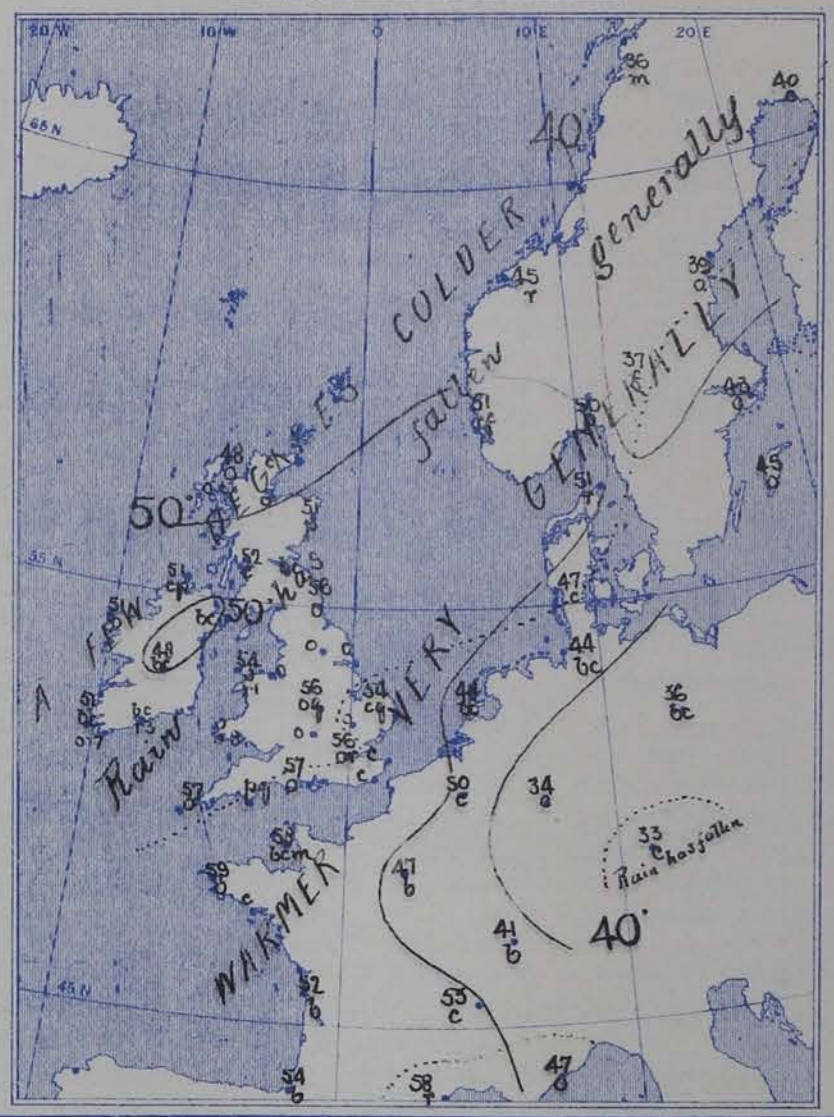


TEMPERATURE & WEATHER.

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 NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 30·31 ins. at Nice, and exceeding 30·0 ins. over the greater part of France & Germany.
Lowest Below 29·1 ins. over Finland, and below 29·2 ins. over the Shetlands and the extreme N. of Scotland.
Gradients steep for S. and SW. winds over the S. half of England, the Channel and the North Sea, but had become slight over Ireland, Scotland and the N. parts of Scandinavia.
Barometer falling over England and the Continent, but the fall has ceased at the Scotch & Irish stations.

TEMPERATURE — Highest 59° at Lorient and Brest, and 58° to 55° at our Channel stations; 57° at Oxford, 56° at York and Sheffield.
Lowest (1) 33° to 36° at the German stations; (2) 36° at Bodö; 37° at Karlstad.
It rose during yesterday to 60° at Jersey and Paris, 59° at Parsonstown, and 61° at Lorient, but did not reach 40° at Berlin.

WIND — S. to SW. over the whole of our islands and their neighbourhood. It was very strong on the southern and southeastern coasts of England, but had fallen light over Ireland and Scotland.

WEATHER — Dull over England, with rain in places, but had become clear and bright in many parts of Ireland and was still fine over France and Germany.
Heavy rains have fallen at our W. stations, and smaller quantities in the N., but none at our S. and SE. stations. Of Bright Sunshine there was none — except at our NW. stations, and even there it amounted to only one or two tenths of an hour.

SEA — Rough at the SW. and S. stations, but had gone down in the N. and NW.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbances in the NW. and N. are spreading out ("merging") in a S. and an E. direction. The gradients over our islands are consequently decreasing, and the strong winds now blowing in the S. are likely to die down. Temperature will probably fall somewhat over England as this change takes place.

FORECASTS

For the 24 hours ending at NOON on 14TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. to S. winds, very mild; occasional rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	S. and SW. winds, falling light; dull, mild, some rain.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 0 to 2.
7	ENGLAND N.W.	Same as Nos. 3 to 5.
8	ENGLAND S.W.	
9	IRELAND NORTH	S. breezes, changeable weather, showery, bright intervals.
10	IRELAND SOUTH	
	WARNINGS	Signals all lowered this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.73	46	45	SSE.	8	o	5
Sumburgh Head	29.18	50	50	SSW	3	r	5
Stornoway	29.22	52	50	W	3	o	3
Aberdeen	29.33	53	52	S	5	ogw	6
Shields	29.55	56	53	SSW	5	ow	3
Ardrossan	29.40	54	54	S	7	r	5
Malin Head ...	29.34	54	54	SW	5	c	3
Belmullet	29.43	55	53	WSW	1	o	*
Holyhead	29.60	56	55	SSW	8	rgw	6
Valencia	29.47	58	57	S	4	ow	5
Scilly	29.81	57	56	SSW	5	r	3
Jersey	30.02	59	56	SSE.	4	c	4
Hurst Castle ...	29.96	57	54	SW	5	ow	3
Dungeness ...	29.98	55	54	SW	5	c	4
North Foreland	29.99	56	53	S	4	c	3
London (Westminster)	29.93	57	54	SSW	3	o	*
Yarmouth ...	29.90	55	53	SSW	3	c	3
Rochefort ...	30.16	63	58	SE.	3	b	*

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

Weather in morning fine and bright over S.E.rn Europe, as well as over Poland, N. Germany and the Baltic provinces, and the greater part of the Spanish peninsula; very dull and unsettled over the British Islands and their neighbourhood, with rain at the W.rn and N.rn stations. Rain falling heavily over Ireland and Wales later, and in considerable quantities at Sumburgh Hd. and Bodo.

Temperature risen very rapidly over the United Kingdom, and some parts of France and N. Germany. Morning readings highest 65° at La Calle, and exceeding 60° at several stations on the S.rn and W.rn shores of the Mediterranean; 58° at Valencia (Ireland), 57° at Scilly, 55° at Dungeness, Holyhead and Malin Hd. Lowest (1) 4° at Kharkov, 6° at Hermanstadt, and below 20° over the S.rn half of Russia, Poland, Hungary and at Vienna; 26° at Munich, 27° at Swinemunde, 30° at Stockholm. Rising later to between 58° and 60° in many parts of our Islands to 60° at Paris and 66° at Biarritz. Falling again over Ireland at night.

Wind light and anticyclonic over all the S.E.rn half of Europe, but strong and cyclonic in the N.W., and blowing a gale at some of the Irish and Scotch stations.—S.S.W.$^{\frac{1}{2}}$ and S.$^{\frac{1}{2}}$ over the United Kingdom, S.E.$^{\frac{1}{2}}$ at Paris and Skudesnaes, S.W.$^{\frac{1}{2}}$ and W.$^{\frac{1}{2}}$ over the more N.rn countries. Blowing a gale over the Irish Sea later, and increasing greatly over the S. and E. of England, but moderating in the W. of Ireland.

Barometer, highest 30.83 ins. at Hermanstadt, and varying from that value to 30.3 ins. over the central, S.E.rn and S.rn parts of Europe generally. Lowest below 29.3 ins. over the Hebrides and N.W. of Scotland, and below 29.6 ins. over Lapland and also at Valencia (Ireland). Falling later over the whole of our Islands and W.rn 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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DAILY WEATHER REPORT

for 8 a.m. on Sunday 14th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.15	40	W	4	c	29.49	+ .24	26	25	− 14	NNW	2	bc	*	c	*	43	26	—
	Hernösand ...	29.26	42	2	0	f	29.65	+ .27	34	31	− 5	NW	2	b	*	f	*	43	32	0.12
	Stockholm ...	29.54	50	S	6	o	29.70	− .11	52	49	+ 9	SW	2	o	*	o	*	52	34	0.04
	Wisby	29.71	46	S	8	o	29.84	− .01	47	46	+ 2	SSW	6	o	*	o	*	47	37	0.04
	Karlstad ...	29.47	50	SSW	4	o	29.64	+ .10	49	48	+ 12	SW	2	o	*	o	*	*	*	—
	Bodö	29.46	31	N	5	o	29.52	+ .50	33	31	− 3	W	6	bc	3	o	*	36	27	—
	Christiansund ...	29.43	37	NW	3	r	29.71	+ .47	33	32	− 12	NE	4	s	4	r	*	41	32	0.32
	Skudesnaes ...	29.42	50	SSW	4	rf	29.54	+ .21	50	50	− 1	SSW	6	of	5	rf	*	52	39	*
	Færder (Christiania Fjord)	29.43	50	SW	6	m	29.62	+ .17	50	48	0	SW	4	o	5	m	*	50	46	—
	Skagen (The Scaw)	29.62	52	WSW	5	o	29.70	+ .10	52	51	+ 1	SW	3	m	0	o	*	52	50	0.08
	Fanö	29.75	49	SW	5	o	29.78	+ .05	46	46	− 1	SW	4	b	*	o	*	49	46	—
	Sumburgh Head	29.36	42	NE	4	r	29.69	+ .53	33	33	− 16	N	4	s	6	r	*	52	33	0.43
	Stornoway ...	29.35	45	NNE	6	r	29.76	+ .57	35	34	− 13	NE	8	srpq	9	r	0.0	48	32	0.75
	Wick	29.32	50	NW	1	o	29.64	+ .43	40	39	− 8	N	7	srpw	4	o	*	52	39	0.43
	Nairn	29.37	49	WSW	2	c	29.59	+ .38	42	42	− 6	ESE	6	r	5	c	*	56	40	0.39
	Aberdeen ...	29.40	49	SW	2	bcw	29.53	+ .30	43	42	− 8	NW	3	org	4	bc.w	3.1	57	41	0.01
British Islands.	Leith	29.45	51	SSW	2	bc	29.50	+ .24	48	47	− 7	ENE	1	rm	*	bc	*	56	45	0.09
	Shields	29.52	55	2	0	cm	29.50	+ .13	52	51	− 4	SSW	2	om	2	o,cm.r	*	60	50	0.17
	Spurn Head ...	29.57	55	SSW	4	o	29.58	+ .07	50	49	− 5	S	4	c	4	p.og	*	56	49	0.03
	York	29.53	56	S	2	o	29.54	+ .08	50	49	− 6	S	1	op	*	o.p	0.0	60	47	0.14
	Loughborough ...	29.59	57	SSW	2	c	29.59	+ .02	49	48	− 7	SE	1	cw	*	gp.c.bc	*	58	46	0.03
	Ardrossan ...	29.44	52	SSW	2	b	29.48	+ .18	49	49	− 3	NNE	1	rf	1	b	*	53	46	0.10
	Malin Head ...	29.42	49	SSW	2	b	29.54	+ .28	45	44	− 6	NNW	8	opg	6	c.b	*	54	46	0.04
	Belmullet ...	29.47	49	WSW	1	o	29.70	+ .34	44	43	− 7	NNE	9	o	*	c.o	*	55	41	0.05
	Donaghadee ...	29.46	50	WSW	2	bc	29.49	+ .13	51	51	+ 3	NNE	2	r	0	bc	*	54	45	0.31
	Liverpool (Bidston)	29.51	54	SSE	1	r	29.51	+ .05	52	50	− 4	SE	2	r	2	r	*	58	51	0.17
	Holyhead ...	29.49	54	S	1	rgm	29.44	+ .02	54	53	0	S	4	rgm	3	cm.rgm	*	55	50	0.71
	Parsonstown ...	29.44	49	2	0	b	29.53	+ .13	46	46	− 2	2	0	bc	*	b	4.1	55	46	0.04
	Valencia ...	29.39	52	E	1	bcm	29.57	+ .19	50	49	− 1	N	4	opq	3	cm.bcm	1.5	57	47	0.02
	Roche's Point ..	29.42	55	SSE	4	o	29.52	+ .08	52	50	− 2	N	4	c	4	o	*	56	50	0.10
	Pembroke (St. Ann's Hd.)	29.49	55	SW	2	r	29.47	− .03	55	54	0	SSE	4	og	4	o,r	0.0	56	53	0.55
	Scilly	29.39	57	SSE	6	op	29.44	− .07	54	53	− 3	S	3	cpm	5	opm	0.0	58	52	0.51
	Prawle Point ...	29.57	57	SSW	5	o	29.52	− .11	56	55	− 1	SSE	3	c	3	c.op	*	57	54	0.01
	Jersey (St. Aubin's)	29.66	58	SE	4	b	29.57	− .21	56	54	− 2	ESE	5	c	4	bc.bw	*	61	54	—
	Hurst Castle ...	29.66	58	S	4	bc	29.59	− .11	56	54	− 1	SSE	4	c	2	op.bc	*	58	56	0.01
	Dungeness ...	29.74	56	S	4	c	29.68	− .10	55	53	0	S	4	b	4	c	*	58	54	—
	North Foreland	29.77	55	S	4	bc	29.67	− .12	54	52	− 1	SSE	2	b	2	c.bc	*	56	52	—
	London (Brixton) ...	29.69	54	S	2	b	29.64	− .08	54	52	− 2	SSE	3	bc	*	o,c.b	0.0	59	52	—
	Oxford	29.64	55	SSW	4	o	29.60	− .05	51	50	− 6	SSE	3	o	*	og.c	*	59	50	—
	Cambridge ...	29.67	55	SSW	4	o	29.64	− .02	48	48	− 8	S	2	bw	*	o	0.0	60	47	—
	Yarmouth ...	29.68	54	SSW	4	bc	29.66	− .03	52	50	− 2	S	3	bw	3	c.bc	*	57	50	—
Germany & Holland.	Cuxhaven ...	29.83	50	SW	3	b	29.86	− .02	40	40	− 4	S	1	b	*	b	*	52	39	—
	Berlin	30.04	37	S	4	b	30.03	− .09	32	?	− 4	SE	2	b	*	b	*	46	33	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich... ..	30.12	37	SSE	5	b	30.05	− .20	29	29	− 4	SE	2	b	*	b	*	53	28	—
	The Helder ...	29.77	52	SW	4	b	29.76	− .02	44	43	− 4	S	2	b	1	b	*	52	43	—
Belgium.	Brussels ...	*	*	*	*	*	29.79	− .16	50	48	0	SSE	4	b	*	b	*	62	48	—
	Cape Gris Nez...	29.76	55	SW	5	c	29.70		51	50		S	4	bc	4	c	*	57	46	—
	Paris	29.87	56	SE	1	b	29.76	− .25	52	49	+ 5	SE	2	b	*	b	*	64	54	—
	Brest	29.52	58	SE	3	o	29.46	− .22	57	55	− 2	ENE	2	c	5	o	*	59	54	—
	Lorient... ...	29.65	58	S	4	o	29.50	− .30	56	56	− 3	SE	5	o	5	o	*	64	48	—
France &	Rochefort ...	29.76	57	SE	3	b	29.61	− .34	55	54	+ 3	SSE	5	o	*	b	*	66	48	—
	Belfort	30.01	53	ESE	2	b	29.93	− .25	41	38	0	ENE	3	bc	*	b	*	63	39	—
	Lyons	30.00	55	SSW	3	c	29.88	− .27	49	48	− 4	S	1	b	*	c	*	62	49	—
	Nice	30.19	50	2	0	r	30.02	− .29	54	52	+ 7	ENE	6	r	4	r	*	54	46	0.43
	Perpignan ...	30.13	55	E	3	b	29.80	− .31	55	55	− 3	SE	2	o	*	b	*	60	54	1.30
	Biarritz ...	29.71	63	S	4	b	29.52	− .44	63	52	+ 9	S	4	o	2	b	*	70	59	—
Peninsula.	Corunna ...																*			
	Lisbon	29.68	57	WNW	4	r	29.58	− .43	54	49	− 4	W	4	c	*	r	*	64	54	0.67
	Azores (P. Delgada)	30.14	59	NNW	4	c	30.20	+ .12	59	58	− 2	NNW	4	bc	3	c	*	66	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 0.6 hrs;

WEATHER CHARTS

FOR SUNDAY, 14TH NOVEMBER, 1897.

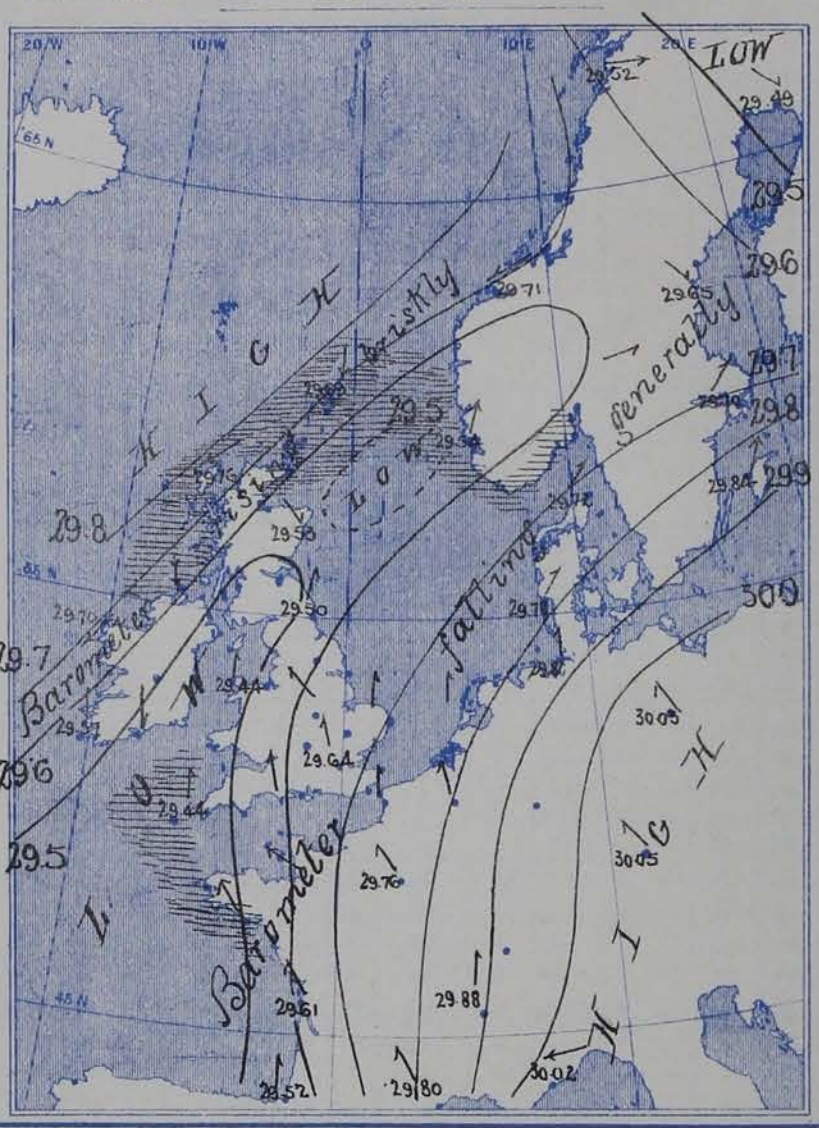
BAROMETER, WIND AND SEA.

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* ▩

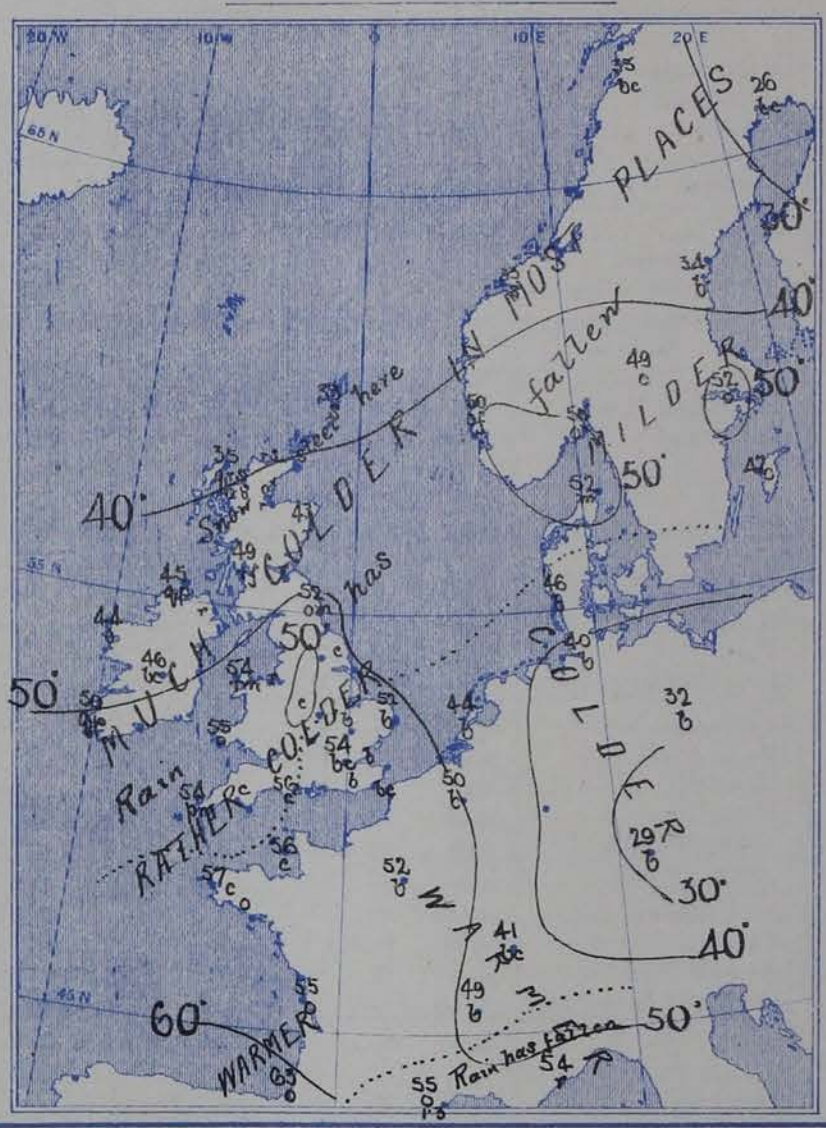


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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) 30.0 ins. to 29.8 ins. and more over SE. Germany and central Europe, including the Baltic, and (2) 29.7 ins. and more over the Hebrides and NW. of Scotland.
Lowest Below 29.5 ins. over the NW. of Spain, the Bay of Biscay, and in a trough stretching thence in a NE. direction over Wales and the W. and N. of England, as well as in a subsidiary system lying between Aberdeen and Shetlands.
Gradients steep for NE. to N. winds over the N. parts of Ireland and Scotland, moderate for S. & SE. winds over Germany, France and England. Barometer rising fast at all our N. & W. stations, falling in the S. & E of England, as well as over France and central Europe.

TEMPERATURE — Highest 63° at Biarritz, 57° to 54° at the English Channel stations, 50° at Valencia (Ireland), York, Shetlands and Faeroe, and 52° even at Stockholm.
Lowest 26° at Haparanda, 33° to 35° over the N. parts of Scandinavia generally, as well as the Shetlands and Hebrides; (2) 29° at Munich, 32° at Berlin, 40° at Cuxhaven.
It had fallen 16° at Invergarry, 13° at Stornoway, and to a considerable extent over Scotland and the N. of Ireland generally, but had changed very little over England and had risen over France.

WIND — Had shifted to NE. at Christiansund, and the northern parts of Scotland, and to N. in Ireland, and was blowing a gale at the extreme Northern stations in these regions. Over France and Germany, however, it was SE., and over England S. and of little force.
A gale from NE or N. had been felt in the Hebrides during the night.

WEATHER — Fine and bright over Germany and France, fair over England, but had become overcast and rough over Ireland and Scotland, with snow and cold rain at the N. stations — the amounts of rain and snow being large over the Shetlands, Hebrides and Caithness.
Some (warm) rain had fallen over the SW. and W. parts of the Kingdom.
Heavy rain had fallen at Perpignan and Lisbon, and a considerable amount at Nice.

SEA — High in the N., rather rough on our SW. coasts, and was rising in the W.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.		FORECASTS.
1	SCOTLAND NORTH	None issued
	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	At 9.40 am today to districts 0, 1, 6, 9, 10, and part of 7. Hoist North Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.32	51	51	SSW	8	r	6
Sumburgh Head	29.23	44	44	NE	4	r	5
Stornoway	29.27	48	47	E	3	p	3
Aberdeen	29.32	56	51	SW	2	bc	3
Shields	29.47	59	54	SW	3	o	2
Ardrossan	29.39	53	52	SSW	3	c	3
Malin Head ...	29.36	53	51	SW	3	c	2
Belmullet	29.42	55	53	WSW	1	c	*
Holyhead	29.47	55	54	SW	3	cm	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.37	57	54	SE	2	cm	3
Scilly	29.45	57	57	S	3	apm	4
Jersey	29.71	60	57	SE	5	bc	4
Hurst Castle ...	29.68	58	56	SSW	5	ap	4
Dungeness ...	29.76	57	54	SSW	5	c	4
North Foreland	29.75	56	54	S	5	c	3
London (Westminster)	29.69	59	55	SSW	4	o	*
Yarmouth ...	29.69	57	55	SSW	5	c	4
Rochefort ...	29.84	64	59	SE	4	b	*

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

Weather in morning fair and bright over the central and western parts of the Continent, dull elsewhere, with rain and snow over the western and northern parts of Scandinavia, rain showers in some parts of the British Islands. Considerable rain falling later over our western and northern districts and in Sweden and Norway, followed by snow at the most northern stations; weather remaining fair over the southeastern parts of England, Germany, and the north of France, but large quantities of rain reported from southwestern Europe (1·3 in: at Perpignan).

Temperature risen rapidly over the Baltic, north Germany, and the south of Russia, and slightly over England, where however, readings were very high for the time of year; fallen over Scotland. Morning readings highest 68° to 65° along the north coast of Africa, 58° at Lisbon and Perpignan, 57° to 54° at the English stations, 51° along the west coast of Ireland and at Skudesnaes; 48° in the north of Scotland. Lowest 15° to 21° over the south of Russia, 21° at Moscow, 24° at St Petersburg, 26° at Riga. Rising later to between 55° and 61° over our Islands as a whole, but falling abruptly in the north of Scotland towards night.

Wind light and variable (anticyclonic) over southeastern and eastern Europe, cyclonic from between S. and SW. over the British Isles and northern Europe, and blowing a gale in Scandinavia, and strongly over England. Moderating in the last named regions later, but shifting to E. suddenly in the north of Scotland and increasing in force.

Barometer highest, 30·69 in: at Hermanstadt, and exceeding 30·1 in: over eastern, central, and southern Europe generally, and the Mediterranean. Lowest below 29·1 in: over Finmark and below 29·2 in: over the Shetlands and the extreme northern parts of Scotland and in the Hebrides; below 29·4 in: at Valencia. A new depression appearing over the Bay of Biscay later, but a rapid rise of the barometer (breaking up the previous depression) taking place over the north of Scotland and west of 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.

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DAILY WEATHER REPORT

for 8 a.m. on Monday 15th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.71	23	N	2	b	29.74	+ .25	22	21	— 4	N	2	o	*	b	*	41	21	—
	Hernösand ...	29.80	31	NE	6	s	29.62	— .03	28	27	— 6	NNW	6	s	*	s	*	43	30	0.12
	Stockholm ...	29.76	47	2	0	b	29.53	— .17	45	44	— 7	SSW	2	o	*	b	*	54	45	—
	Wisby	29.86	45	S	4	b	29.67	— .17	46	44	— 1	S	8	bc	*	b	*	48	43	—
	Karlstad ...	29.64	48	S	2	o	29.35	— .29	48	47	— 1	S	4	o	*	o	*	*	*	0.12
	Bodö	29.69	27	E	4	s	29.78	+ .26	25	22	— 8	E	2	s	1	s	*	34	23	—
	Christiansund ...	29.79	35	WSW	2	o	29.70	— .01	35	33	+ 2	ENE	4	s	4	o	*	36	32	0.24
	Skudesnaes ...	29.52	40	NNW	8	r	29.53	— .01	39	37	— 11	NNW	10	c	5	r	*	50	36	*
	Færder (Christiania Fjord)	29.56	50	SW	3	o	29.31	— .31	36	35	— 14	N	6	r	4	o	*	50	34	0.79
	Skagen (The Scaw)	29.62	50	SW	3	c	29.33	— .37	50	49	— 2	SW	7	r	2	c	*	54	50	0.04
	Fanö	29.66	48	S	4	b	29.54	— .24	44	43	— 2	NW	6	r	*	b	*	52	44	0.08
British Islands.	Sumburgh Head	29.82	31	N	3	o	30.00	+ .31	33	30	0	N	4	o	5	o	*	34	29	0.01
	Stornoway ...	29.99	32	NNE	6	bhqw	30.18	+ .42	35	33	0	NE	4	o	4	rs, oh, bqw	0.0	35	29	0.27
	Wick	29.84	34	NE	6	o	30.10	+ .46	35	34	— 5	N	4	c	3	osp	*	40	26	0.18
	Nairn	29.91	34	NNW	6	s	30.14	+ .55	35	34	— 7	N	2	bc	3	rs	*	43	27	0.35
	Aberdeen ...	29.79	34	N	7	orsqq	30.10	+ .57	34	32	— 9	NW	5	cq	6	ogr3q	0.0	47	31	0.61
	Leith	29.69	42	NW	6	r	30.13	+ .63	33	30	— 15	W	3	c	*	r. sp	*	48	31	0.42
	Shields	29.54	47	N	3	r	30.07	+ .57	32	31	— 20	WNW	3	c	5	r	*	54	31	0.70
	Spurn Head ...	29.55	52	SSW	3	b	29.97	+ .39	44	42	— 6	N	5	c	6	b. pq	*	55	40	0.16
	York	29.49	54	S	1	rq	30.07	+ .53	34	32	— 16	N	3	b	*	rq	0.0	54	33	0.56
	Loughborough ...	29.57	54	S	2	c	30.04	+ .45	36	34	— 14	NW	2	bmw	*	c, or, bc	*	58	35	0.23
	Ardrossan ...	29.75	39	ENE	4	rw	30.16	+ .68	35	32	— 14	NNE	1	b	1	rm	*	49	30	0.23
	Malin Head ...	29.82	41	N	9	ohrq	30.19	+ .65	40	36	— 5	N	5	c	3	ohrq	*	45	36	0.04
	Belmullet ...	29.98	42	NNE	8	crspq	30.29	+ .59	40	36	— 4	NE	1	o	*	pq, cprs	*	45	36	0.07
	Donaghadee ...	29.69	43	NW	6	r	30.16	+ .67	40	36	— 11	NE	7	bc	5	r	*	51	37	0.41
	Liverpool (Bidston)	29.58	48	W	3	o	30.13	+ .62	34	31	— 18	N	2	b	2	opw	*	55	34	0.10
	Holyhead ...	29.59	50	NW	5	op	30.15	+ .71	40	36	— 14	N	5	c	4	op. q	*	54	36	0.32
	Parsonstown ...	29.83	42	N	3	o	30.25	+ .72	30	29	— 16	2	a	b	*	oq. b	0.0	48	30	—
	Valencia ...	29.88	46	NNE	6	opq	30.28	+ .71	37	33	— 13	NE	3	bc	4	opq	0.6	50	36	0.12
	Roche's Point ..	29.74	46	N	5	b	30.20	+ .68	37	34	— 15	N	4	b	3	c, b	*	53	35	—
	Pembroke (St. Ann's Hd.)	29.65	49	NNE	6	o	30.11	+ .64	43	40	— 12	E	5	cp	4	o	0.0	55	41	0.10
	Scilly	29.80	55	NNE	5	opw	29.98	+ .54	50	47	— 4	NNE	6	cq	5	opw	1.0	60	46	0.07
	Prawle Point ...	29.59	55	SSE	2	rq	29.97	+ .45	43	42	— 13	NNE	6	c	5	c. r	*	56	42	0.50
	Jersey (St. Aubin's)	29.59	58	SE	4	o	29.84	+ .27	55	54	— 1	NNE	4	opmq	3	o. org	*	58	54	0.19
	Hurst Castle ...	29.60	55	SSE	1	o	29.94	+ .35	45	43	— 11	NNE	5	o	3	o. r	*	59	44	0.29
	Dungeness ...	29.62	57	SSE	4	c	29.88	+ .20	46	45	— 9	N	5	r	4	bc. c	*	59	45	0.35
	North Foreland	29.66	56	SSE	2	c	29.89	+ .22	47	46	— 7	N	5	r	4	bc, c	*	58	45	0.14
	London (Brixton) ...	29.61	53	SE	2	c	29.97	+ .33	43	41	— 11	N	3	o	*	c. o. rq	0.0	61	42	0.22
	Oxford	29.62	53	WSW	1	c	30.02	+ .42	39	37	— 12	N	4	bc	*	o	*	58	39	0.13
	Cambridge ...	29.61	53	S	1	b	29.99	+ .35	40	40	— 8	N	3	o	*	c. b	2.6	61	39	0.19
	Yarmouth ...	29.61	53	SSW	3	b	29.90	+ .24	45	42	— 7	N	5	c	4	b	*	57	43	0.13
Germany & Holland.	Cuxhaven ...	29.78	50	S	1	b	29.64	— .22	50	50	+ 10	SW	4	r	*	b	*	57	40	—
	Berlin	29.96	40	S	3	b	29.89	— .14	35	33	+ 3	S	4	c	*	b	*	48	32	—
	Wiesbaden ...	*	*	*	*	*	29.97		40	38		NE	2	o	*	*	*	50	28	—
	Munich	29.95	34	SE	3	b	30.08	+ .03	32	31	+ 3	SE	2	bc	*	b	*	50	28	—
	The Helder ...	29.69	50	SSW	1	o	29.78	+ .02	45	44	+ 1	N	4	r	3	b	*	55	44	0.12
Belgium.	Brussels ...	*	*	*	*	*	29.86	+ .07	53	51	+ 3	SW	5	c	*	c	*	65	50	—
	Cape Gris Nez ...																*			
	Paris	29.69	61	SE	2	o	29.90	+ .14	48	48	— 4	SSW	2	b	*	o	*	68	48	—
	Brest	29.56	57	ESE	2	r	29.88	+ .42	54	51	— 3	N	2	o	4	r	*	59	48	0.28
	Lorient	29.50	55	SE	5	r	29.87	+ .37	56	56	0	WNW	2	c	2	r	*	66	46	0.24
France &	Rochefort ...	29.60	57	SSE	4	o	29.88	+ .27	54	52	— 1	S	2	b	*	o	*	61	50	0.08
	Belfort	29.85	46	ENE	2	b	30.03	+ .10	47	43	+ 6	W	1	o	*	b	*	57	41	—
	Lyons	29.84	59	S	2	o	29.99	+ .11	58	52	+ 9	SW	2	o	*	o	*	63	49	—
	Nice	30.06	55	E	5	o	30.13	+ .11	53	49	— 1	E	1	c	4	o	*	55	52	0.32
	Perpignan ...	29.87	61	S	4	o	29.94	+ .14	60	59	+ 5	E	4	o	*	o	*	64	57	0.08
	Biarritz ...	29.61	62	S	5	o	29.84	+ .32	58	53	— 5	SE	3	bc	4	o	*	68	55	—
Peninsula.	Corunna ...																*			
	Lisbon	29.70	55	WNW	2	b	29.87	+ .29	? 50	50	— 4	NNE	4	f	*	b	*	59	48	0.12
	Azores (P. Delgada)	30.30	58	NE	3	b	30.32	+ .12	53	50	— 6	NNE	3	b	2	b	*	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 0.0 hrs;

WEATHER CHARTS

FOR MONDAY, 15th November, 1897.

BAROMETER, WIND AND SEA.

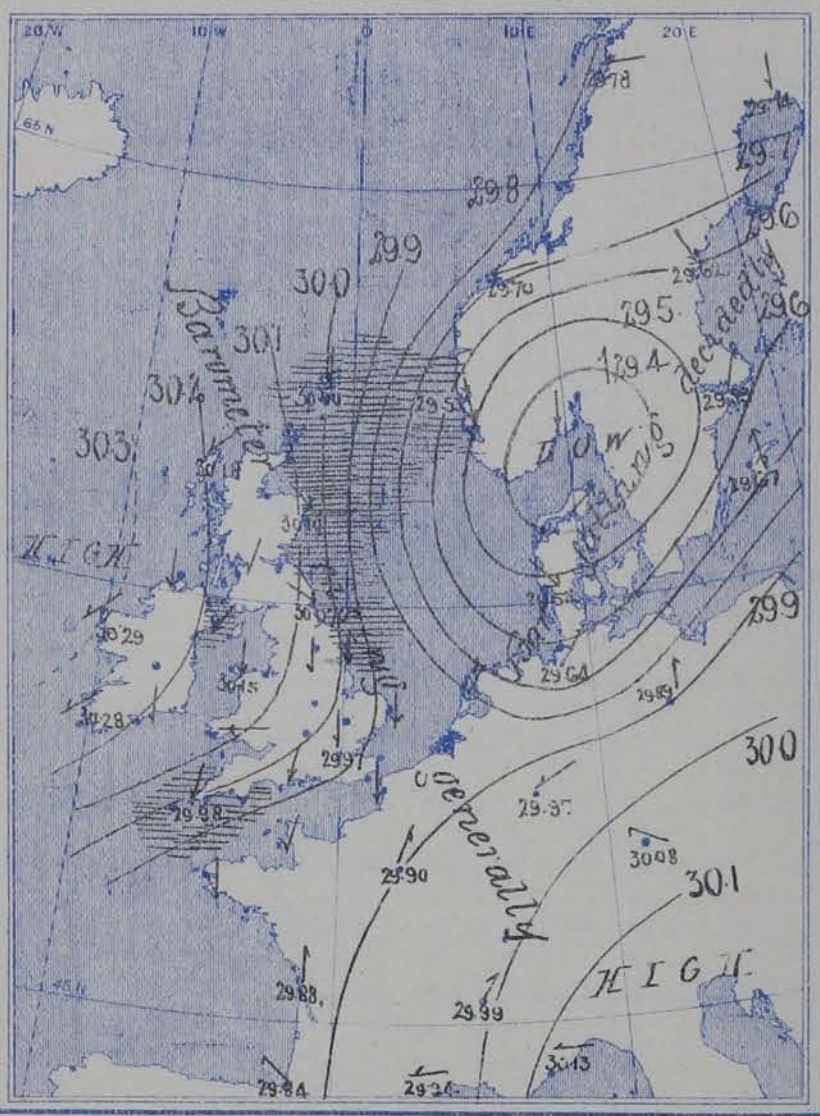
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

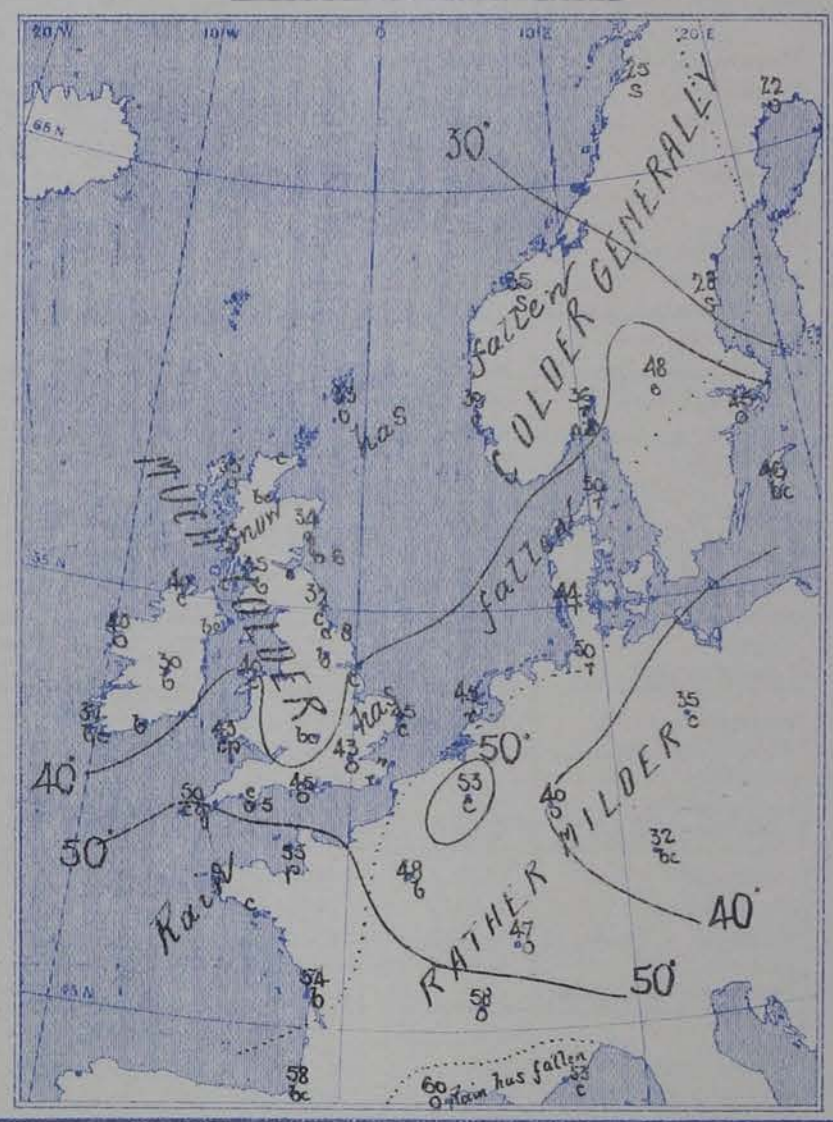


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 ins. over the extreme W. of Ireland (apparently much higher over the Atlantic) and exceeding 30.0 ins. over all the W^m. and N^m. parts of our Islands; (2) 30.1 ins. and more to 30.0 ins. over the S. and E. of France, Switzerland and S. Germany.
Lowest below 29.4 ins. in a depression lying over the Skager Rack and N. of Denmark.
Gradients slight over the W^m. and N^m. parts of our Islands, steep over the N^rn. and E^rn. parts of the North Sea, and favourable for N^ly winds generally. Barometer rising quickly in our Islands, most over England.

TEMPERATURE — Highest 60° to 58° in the S. of France, 56° at Lorient, 55° to 52° along the N. coast of France, 50° at Cuxhaven and also at the Scaw.
Lowest 22° to 28° over Lapland and the N. of Sweden, 33° to 35° at the Scotch stations, 30° at Parsonstown, 29° at Oxford.
It has fallen ten to twenty degrees over England during the preceding 24 hours; over our S^rn. districts the change occurred mainly after midnight.

WIND — NE. in Ireland, N^ly (NW to NE) over Gt. Britain and strong to moderate in force generally. Strong N^ly gales have been felt on all our northern and western coasts, as well as in the west of Norway.

WEATHER — Fair over Ireland and the greater part of Scotland and England, but cold showers were felt at some of the southwestern and southeastern stations.
Snow had fallen very generally over the N^rn. parts of the Kingdom, and cold rain elsewhere.
Bright Sunshine recorded yesterday amounted to 3.5 hrs. at Eastbourne, and exceeded 1 hr. over our S^rn. districts as a whole. In London, however, and over the N^rn. parts of the Kingdom there was none.

SEA — Rough in the N. and E., rather so in the W. and on the French side of the Channel, moderate off our S. coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of cold N^ly winds is probable, with frost in the night in most places.

FORECASTS

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

DISTRICTS.	FORECASTS.
SCOTLAND NORTH	NW^ly and N^ly winds, strong; squally, cold showers.
SCOTLAND EAST	
ENGLAND N.E.	
ENGLAND EAST	N^ly and NW^ly breezes, strong to moderate; fair, cold, frost at night.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	N^ly and NW^ly breezes moderate to light; slight cold showers; frost at night.
7 ENGLAND N.W.	
8 ENGLAND S.W.	N^ly winds, moderating; fair, cold.
9 IRELAND NORTH	N^ly winds, moderate; fair, very cold, frost inland.
10 IRELAND SOUTH	
WARNINGS	At 7 pm yesterday to districts 2 3 and parts of 7 and 8. Hoist North Cone. The signals are now flying in all districts except 5 and part of 8.

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.58	45	44	N	4	r	4
Sumburgh Head							
Stornoway	29.89	33	33	ENE	7	ohq	9
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.67	42	42	NNW	9	o	6
Belmullet	29.85	43	41	NNE	8	pq	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.56	58	55	ESE	4	o	4
Hurst Castle ...							
Dungeness ...	29.64	59	55	SSE	4	bc	3
North Foreland	29.66	58	55	SSE	3	bc	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.54	60	57	SSE	5	o	*

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 7TH TO 13TH NOVEMBER 1897.

In the course of last week there has been an entire alteration in the distribution of pressure, the winds, and the weather which had before prevailed for so long over our Islands and northern Europe.

The anticyclone whose central area lay over the S^m. half of Scandinavia on Sunday has moved gradually in a SE^¾ direction to the S^n. parts of Russia, and decreased greatly in height, while depressions have advanced over our Islands and the NW^m. parts of Europe from the SW^nd., bringing with them a great deal of rain to our W^n. districts (and especially to Ireland) a rapid rise of temperature, and an increase in the vapour tension. In the mean time the fogs disappeared, and SW^¾ to S^¾ winds took the place of the E^¾ breezes previously reported, and blew hard for several hours on most parts of our coasts.

On Saturday, however, there were indications that further and great changes were at hand, as in the N. of Scotland the barometer had begun to rise suddenly and decidedly and the wind had shifted to the E^nd. with a decided fall of temperature, while over the S^m. parts of England the wind remained S^¾, and temperature was as high as 60° (although the clouds were dense and slight sprinklings of rain had occurred during the day) and over France the barometer was falling continuously.

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 16th November, 1897.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...														#		#			
	Hernösand ...	29.42	26	NE	8	f	29.70	+ .08	23	20	— 5	NW	6	b	#	f	#	32	23	0.28
	Stockholm ...	29.13	33	SW	6	s	29.80	+ .27	27	25	— 18	SW	9	b	#	s	#	48	27	0.20
	Wisby	29.29	39	SE	9	bc	29.94	+ .27	33	?	— 13	NW	9	b	#	bc	#	46	33	0.04
	Karlstad ...	29.58	30	NW	8	o	30.05	+ .70	25	23	— 23	NW	4	b	#	r,s,o	#	#	#	0.28
	Bodö	29.78	22	ENE	2	o	29.76	— .02	22	19	— 3	E	4	s	1	o	#	25	19	—
	Christiansund ...	29.90	34	NE	6	c	30.05	+ .35	33	?	— 2	N	4	c	5	c	#	35	30	0.20
	Skudesnaes ...	29.99	36	NNW	4	o	30.27	+ .74	35	34	— 4	NNW	6	c	3	c,o	#	40	30	#
	Færder (Christiania Fjord)	29.72	35	NNW	6	b	30.10	+ .79	35	31	— 1	WNW	4	b	2	b	#	36	32	0.04
	Skagen (The Scaw)	29.83	39	N	8	bc	30.17	+ .84	38	32	— 12	NNW	2	b	1	bc	#	52	34	0.16
	Fanö	30.06	40	NW	5	b	30.31	+ .77	38	37	— 6	NNW	1	c	#	b	#	45	36	0.12
	Sumburgh Head	30.18	32	N	3	c	30.18	+ .18	35	34	+ 2	L	0	0	4	c	#	35	30	0.01
	Stornoway ...	30.29	30	NW	4	o	30.06	— .12	39	38	+ 4	SW	5	0	5	c,o	1.2	40	26	0.07
	Wick	30.30	35	NW	2	bc	30.13	+ .03	38	37	+ 3	S	3	0	3	bc	#	38	26	0.05
	Nairn	30.32	31	W	1	b	30.20	+ .06	28	27	— 7	L	0	c	1	b	#	37	19	—
	Aberdeen ...	30.32	32	W	3	bc	30.27	+ .17	31	29	— 3	SW	2	c	3	bc	2.9	36	24	—
British Isles	Leith	30.33	34	ENE	3	b	30.28	+ .15	37	33	+ 4	S	2	0	#	b	#	42	27	—
	Shields	30.32	37	NW	2	b	30.37	+ .30	34	32	+ 2	S	2	m	3	crsp,b	#	39	29	0.05
	Spurn Head ...	30.28	44	NNE	4	c	30.39	+ .42	43	41	— 1	S	3	0	5	c,r,cv	#	46	36	0.02
	York	30.31	39	N	1	c	30.41	+ .34	33	33	— 1	SSE	1	f	#	b,c	5.2	44	29	—
	Loughborough ...	30.33	33	NW	1	c	30.40	+ .36	35	34	0	SE	1	cmw	#	bc,cm	#	42	32	—
	Ardrossan ...	30.35	35	NNE	1	bm	30.22	+ .06	41	40	+ 6	ESE	4	cm	3	bm	#	41	31	0.01
	Malin Head ...	30.29	37	S	1	b	30.13	— .06	40	39	0	S	4	og	2	bc,b	#	42	35	0.02
	Belmullet ...	30.33	41	NNE	1	o	30.04	— .25	43	42	+ 3	S	2	o	#	o	#	44	36	0.03
	Donaghadee ...	30.34	40	ESE	4	b	30.24	+ .08	41	39	+ 1	WSW	4	c	2	b	#	44	35	0.01
	Liverpool (Bidston)	30.34	37	NNE	1	c	30.35	+ .22	37	34	+ 3	SE	2	o	?	cm	#	39	34	—
	Holyhead ...	30.31	40	E	1	b	30.27	+ .12	44	40	+ 4	S	3	cm	2	c,b	#	44	36	—
	Parsonstown ...	30.34	35	L	0	bc	30.17	— .08	41	38	+ 11	SE	1	0	#	bc	5.4	42	29	—
	Valencia ...	30.34	37	E	1	b	30.11	— .17	48	46	+ 11	SSE	4	cmg	4	c,b	4.6	48	35	0.18
	Roche's Point ...	30.34	40	NNE	2	c	30.18	— .02	51	50	+ 14	S	5	r	4	c	#	51	35	0.04
	Pembroke (St. Ann's Hd.)	30.29	37	ENE	4	bc	30.28	+ .17	47	44	+ 4	SE	4	og	3	bc	4.5	47	37	—
	Scilly	30.20	47	ENE	3	o	30.22	+ .24	53	52	+ 3	ESE	4	cr	3	c,o	2.3	54	44	—
	Prawle Point ...	30.26	43	NE	4	bc	30.31	+ .34	48	48	+ 5	ESE	3	p	2	bc	#	48	39	0.03
	Jersey (St. Aubin's)	30.19	49	NE	5	cm	30.32	+ .48	49	48	— 6	ESE	4	cm	3	p,bc,og,rs	#	56	47	0.04
	Hurst Castle ...	30.26	42	NNE	4	c	30.36	+ .42	47	45	+ 2	ESE	3	cm	2	b,c	#	47	38	—
	Dungeness ...	30.21	45	NE	5	c	30.39	+ .51	47	42	+ 1	SE	5	c	4	c	#	49	37	—
	North Foreland	30.23	43	N	5	bc	30.42	+ .53	45	40	— 2	SE	3	o	3	c,bc	#	47	42	0.16
	London (Brixton) ...	30.30	40	NNE	3	b	30.40	+ .43	41	39	— 2	SE	1	cm	#	bc,c	0.2	45	37	—
	Oxford	30.36	35	NE	2	c	30.38	+ .36	40	38	+ 1	SE	2	o	#	c	#	46	34	—
	Cambridge ...	30.31	37	N	3	b	30.43	+ .44	35	35	— 5	NNW	1	cm	#	b	4.4	44	32	—
	Yarmouth ...	30.21	45	NNE	4	c	30.39	+ .49	39	37	— 6	L	0	bcf	4	bc,c	#	49	35	0.01
Germany & Holland	Cuxhaven ...	29.97	43	NW	5	c	30.36	+ .72	39	39	— 11	WNW	2	bc	#	r,c,rhp	#	55	37	0.24
	Berlin	30.05	41	W	4	o	30.38	+ .49	33	32	— 2	W	3	b	#	o	#	50	32	—
	Wiesbaden ...	#	#	#	#	#	30.46	+ .49	35	34	— 5	N	2	bc	#	#	#	50	35	—
	Munich	30.21	44	W	3	o	30.42	+ .34	44	44	+ 12	E	3	r	#	o	#	50	32	0.16
	The Helder ...	30.22	44	N	4	b	30.42	+ .64	36	34	— 9	S	1	bc	2	b	#	46	36	0.04
France & Belgium.	Brussels ...	#	#	#	#	#									#		#			
	Cape Gris Nez ...	30.17	48	E	5	c	30.34		40	37		SE	2	o	2	c	#	50	37	0.04
	Paris	30.13	49	SSE	2	bc	30.36	+ .46	44	43	— 4	NE	2	m	#	bc	#	58	44	—
	Brest	30.19	51	NE	4	o	30.25	+ .37	50	49	— 4	ESE	1	o	3	o	#	57	45	0.04
	Lorient	30.14	52	NE	4	o	30.28	+ .41	50	50	— 6	ESE	3	m	3	o	#	64	48	—
	Rochefort ...	30.05	55	S	2	b	30.20	+ .32	47	46	— 7	SE	3	m	#	b	#	66	46	—
	Belfort	30.15	52	W	2	o	30.36	+ .33	45	45	— 2	ENE	5	f	#	o	#	57	45	—
	Lyons	30.17	53	NNW	1	o	30.36	+ .37	43	42	— 15	S	1	b	#	o	#	60	43	0.04
	Nice	30.07	58	E	3	c	30.33	+ .20	51	49	— 2	E	2	b	4	c	#	63	50	—
	Perpignan ...	30.09	60	E	3	r	30.31	+ .37	59	59	— 1	E	1	o	#	r	#	65	58	0.08
	Biarritz ...	30.01	59	W	2	c	30.19	+ .35	48	48	— 10	ESE	3	b	4	c	#	66	46	
Penin-sula.	Corunna ...														#		#			
	Lisbon	30.02	56	N	4	b	29.98	+ .11	55	50	?	NNE	4	bc	#	b	#	63	?	—
	Azores (P. Delgada)	30.36	57	NE	2	b	30.28	— .04	59	57	+ 6	L	0	0	2	b	#	64	53	—

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 6.5 hrs;

WEATHER CHARTS

FOR TUESDAY, 16TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

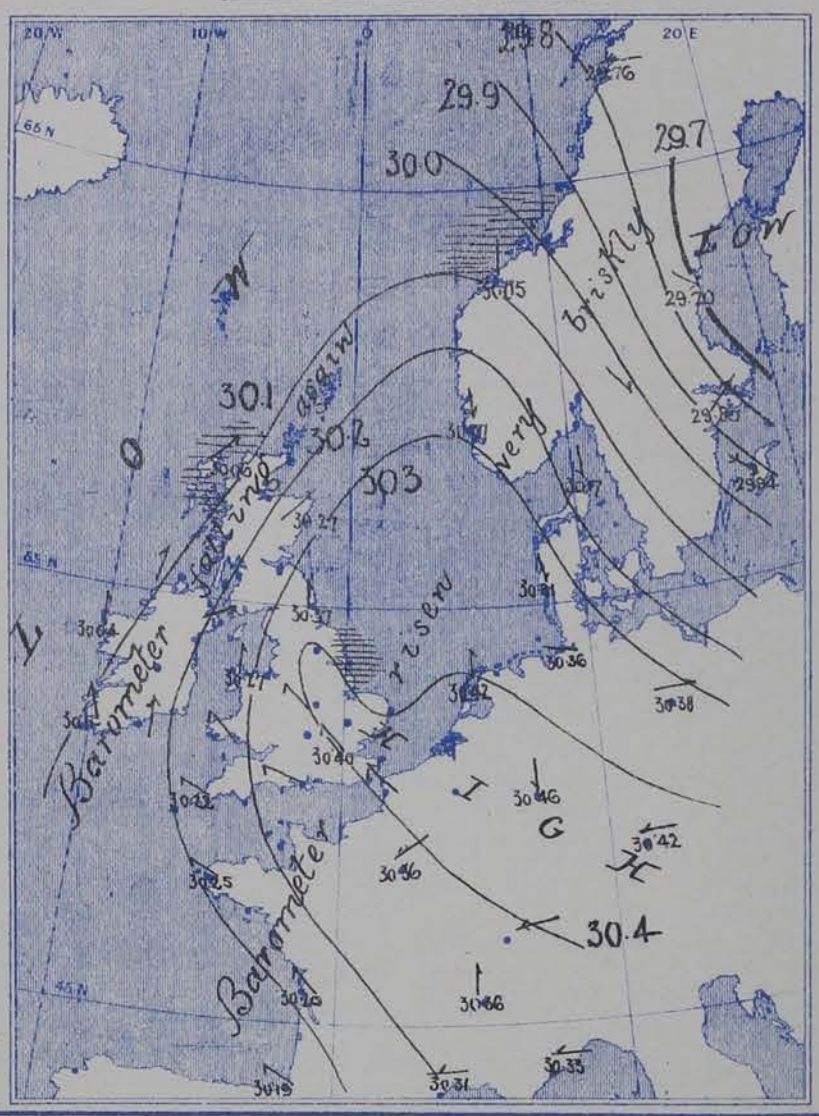
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▓


20 W
10 W
0
10 E
20 E
65 N
45 N
29·8
29·9
30·0
29·7
29·76
30·05
29·70
29·85
29·94
30·1
30·2
30·3
30·27
30·37
30·31
30·36
30·42
30·38
30·40
30·46
30·42
30·36
30·25
30·4
30·26
30·66
30·35
30·31
30·19
L
Barometer falling again very rapidly
Barometer rising rapidly
Barometer falling rapidly
Barometer falling
Barometer rising
Barometer falling
Barometer rising
Barometer falling
Barometer rising

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and upwards over the E. of England, the Netherlands and W. and N. Germany; 30.2 ins and upwards in an anticyclone embracing a considerable portion of W. Europe.
Lowest 29.7 ins. and less in a depression over the Gulf of Bothnia, 30.0 ins & less in the N. of Portugal
Gradients moderate over our own W. coasts, and steep over Sweden, slight elsewhere.
Barometer falling again in the W. and N. of our Islands, but rising in all other parts of our area.

TEMPERATURE

Highest 59° at Perpignan, 55° at Lisbon, 53° at Scilly, 51° at Roche's Pt. and Nice, 50° at Brest & Lorient, and 49° at Jersey.
Lowest (1) 22° at Bodö, 23° at Hernösand, 25° at Karlstad and 27° at Stockholm; (2) 28° at Nairn & 31° at Aberdeen
Frost occurred last night over the N. and central parts of Gt. Britain; at Nairn the thermometer in the screen fell to 19°, and at Aberdeen to 24°.

WIND

SE. in the west of France and all the more southern parts of our islands, light or moderate in force generally, but fresh at Roche's Pt. and Dungeness.
Light to moderate from the S. or SW. in the northern parts of the United Kingdom.
N. or NW. over the greater part of Scandinavia and Denmark. A gale from between SW. and NW. was blowing in the south of Sweden.

WEATHER

Cloudy or dull over our islands generally, with fog or mist at several of our E. stations, and rain on our extreme SW. coasts.
Fine at most of the Continental stations, but snow was falling at Bodö
A little rain or sleet fell yesterday in several parts of the United Kingdom and considerable quantities of snow in Scandinavia. A lunar halo was seen this morning at Spurn Head.

SEA

Moderate to smooth generally, but rather rough at Stornoway and Spurn Hd. as well as at Christiansund

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression, apparently of considerable size and depth, is approaching our W. coasts, and is likely to occasion a decided increase of wind from the S. over nearly the whole Kingdom, with a temporary change to milder and rainy weather.

FORECASTS

For the 24 hours ending at NOON on 17TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 1 SCOTLAND NORTH	S. winds increasing in force, fair at first, then rainy, becoming temporarily milder.	▼ 6 SCOTLAND WEST	Same as Nos. 0 and 1.
▼ SCOTLAND EAST		7 ENGLAND N.W.	SE. and S. winds, increasing in force, dull, rainy.
2 ENGLAND N.E.	Same as No. 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		▼ 9 IRELAND NORTH	SE. and S. gales or strong winds; dull, rainy.
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
5 ENGLAND SOUTH	S. and SE. winds, freshening, fair at first, some rain later, milder.	WARNINGS	At 10.10 am today to districts 0, 6, 9, 10 and part of 1. 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·70	40	38	NNW	10	c	5
Sumburgh Head	30·10	32	30	N	3	c	4
Stornoway	30·26	35	33	N	5	c	5
Aberdeen	30·23	34	32	NW	3	bc	4
Shields	30·20	37	36	NW	3	crsp	5
Ardrossan	30·27	39	38	C	0	bm	0
Malin Head ...	30·25	39	39	ESE	3	bc	1
Belmullet	30·31	43	38	E	1	0	*
Holyhead	30·24	42	37	NE	3	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·31	42	36	NE	3	c	4
Scilly	30·14	49	45	NNE	4	c	4
Jersey	30·07	51	49	NE	5	bc	4
Hurst Castle ...	30·12	47	43	NNE	5	b	3
Dungeness ...	30·07	47	43	NE	5	c	4
North Foreland	30·15	47	44	N	4	c	4
London (Westminster)	30·13	45	40	N	3	bcm	*
Yarmouth ..	30·10	45	42	N	3	bc	4
Rochefort ...	29·93	59	57	S	2	b	#

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

Weather in morning fair or fine over the greater part of our Islands, but showery at Pembroke and rainy on the Kentish coasts, as well as over the Netherlands, N. Germany, Denmark and the extreme S. of Norway. Dull in Spain, the S. of France, N^rn Italy and Austria, but fine in Poland and the S. of Russia, as well as over the W. of France and S^rn Italy. A little rain or sleet falling lately in many parts of W^rn Europe, and considerable quantities of snow in Scandinavia.

Temperature fallen over W^rn and N^rn Europe generally, but risen in the central and S^rn countries. Morning readings highest 70° at Algiers, 69° at La Calle, 65° at Cagliari, and 63° at Barcelona and Malta; above 55° at the Mediterranean and Adriatic stations generally. Lowest (1) 11° at Hermanstadt, 20° at Kiev, 22° at Kharkov, and 23° at Nicolaieff, (2) 22° at Haparanda, and 25° at Bodö; below the freezing point over central Ireland, and very little above it in the N^rn parts of Gt. Britain. Daily maxima below 45° over the N^rn and central parts of our islands generally, thermometer exceeding 55° in the Channel Islands and rising to between 60° and 66° in the W. and S. of France.

Wind light to fresh from the N^nd. over Gt. Britain, and from the NE^nd. in Ireland, but light from the S^nd. over central France, and from the E^nd. or NE^nd. over Spain, Italy and the extreme south of France. Varying between E. and N over the northern parts of Scandinavia, but strong to a gale from the N^nd. in the south of Norway, and from the S^nd. in the south of Sweden, S^d. also over the greater part of Russia and Germany; calm in Austria. Subsequently backing to the NW^nd. or W^nd. in the north of Scotland.

Barometer highest 30·5 ins. and upwards over Turkey and the neighbouring provinces; 30·1 ins. and upwards in an anticyclone embracing all the more S.E^rn parts of the Continent, as well as in another system extending from the Atlantic over the W^rn and N^rn parts of our islands. Lowest 29·4 ins. and less in a well marked depression, with its centre over the Skager Rack. Atlantic high pressure system subsequently spreading over the greater part of W^rn Europe, depression moving E^wd., but becoming deeper.

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 17th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.68	19	N	6	b	29.90	+ .47	17	16	− 6	N	6	b	*	b	*	23	14	—
	Hernösand ...	29.94	25	NW	4	b	30.14	+ .44	14	?	− 9	NW	2	b	*	b	*	27	14	—
	Stockholm ...	30.03	27	W	2	b	30.15	+ .35	20	19	− 7	W	2	b	*	b	*	32	20	—
	Wisby	30.11	34	N	8	b	30.18	+ .24	32	30	− 1	N	6	b	*	b	*	36	32	—
	Karlstad ...	30.16	23	NW	2	b	30.21	+ .16	19	18	− 6	N	2	b	*	b	*	*	*	—
	Bodö	29.91	20	E	4	c	30.05	+ .29	19	15	− 3	E	4	b	1	c	*	22	16	—
	Christiansund ...	30.11	33	NNW	3	s	29.85	− .20	35	31	+ 2	ESE	4	o	5	s	*	36	32	0.04
	Skudesnaes ...	30.21	39	L	o	c	29.89	− .38	43	43	+ 8	SE	8	r	5	o.c	*	43	30	*
	Færder (Christiania Fjord)	30.19	36	WNW	4	b	30.18	+ .08	34	29	− 1	E	2	o	1	b	*	37	32	—
	Skagen (The Scaw)	30.21	39	NNW	2	bc	30.19	+ .02	37	35	− 1	WSW	1	c	0	bc	*	39	36	—
	Fanö	30.28	39	L	o	o	30.21	− .10	43	40	+ 5	SW	2	c	*	o	*	43	37	0.04
British Islands.	Sumburgh Head	29.94	42	S	3	o	29.53	− .65	49	48	+ 14	W	3	o	5	o	*	50	35	0.26
	Stornoway ...	29.74	46	SW	6	o	29.63	− .43	47	46	+ 8	WSW	3	o	3	ow, o	0.0	50	38	0.80
	Wick	29.77	46	S	6	o	29.63	− .50	49	47	+ 11	W	1	c	2	o	*	50	36	0.05
	Nairn	29.87	41	SSW	1	o	29.67	− .53	52	50	+ 24	L	o	o	1	o	*	52	27	0.03
	Aberdeen ...	30.01	40	SSW	3	og	29.72	− .55	49	47	+ 18	SW	2	og	2	og, rq	0.0	49	30	0.04
	Leith	30.00	43	SE	3	o	29.76	− .52	54	52	+ 17	SW	3	o	*	o	*	55	35	0.01
	Shields	30.12	41	SSW	2	om	29.86	− .51	52	50	+ 18	SSW	3	o	2	o, om, r	*	52	32	0.04
	Spurn Head ...	30.20	45	SSE	4	o	29.98	− .41	50	49	+ 7	S	4	o	4	o.r	*	50	42	0.06
	York	30.20	43	S	2	og	29.96	− .45	49	48	+ 16	S	1	o	*	og, r	0.0	49	32	0.11
	Loughborough ...	30.24	44	SE	2	o	30.05	− .35	52	51	+ 17	SSW	2	o	*	o.opq, o	*	53	35	0.10
	Ardrossan ...	29.95	47	SSE	4	rm	29.77	− .45	51	51	+ 10	SSE	3	dm	3	rm	*	51	40	0.09
	Malin Head ...	29.76	47	S	7	o	29.77	− .36	51	51	+ 11	SSW	2	o	1	o	*	53	40	0.06
	Belmullet ...	29.80	52	SSW	5	m	29.83	− .21	51	51	+ 8	W	1	o	*	ow, m	*	54	42	0.08
	Donaghadee ...	29.97	50	SSW	5	r	29.83	− .41	54	53	+ 13	WSW	5	c	3	r	*	54	39	0.09
	Liverpool (Bidston)	30.14	42	SE	2	r	29.97	− .38	53	50	+ 16	S	2	o	2	o, r	*	53	37	0.21
	Holyhead ...	30.04	50	S	5	rmq	29.93	− .34	54	54	+ 10	SW	5	rmq	4	gm, rqm	*	54	40	0.56
	Parsonstown ...	29.96	48	S	2	r	29.88	− .29	54	54	+ 13	L	o	o	*	or	0.0	55	40	0.87
	Valencia ...	29.94	53	S	4	r	29.90	− .21	56	55	+ 8	SSW	2	rmq	3	rq, r	0.0	58	46	1.87
	Roche's Point ..	30.04	52	SSW	5	dp	29.95	− .23	55	55	+ 4	SW	5	r	4	odp	*	55	50	0.65
	Pembroke (St. Ann's Hd.)	30.12	54	SW	5	o	30.04	− .24	54	54	+ 7	WSW	6	dq	5	o	0.0	55	?	0.06
	Scilly	30.11	54	S	1	cf	30.09	− .13	55	54	+ 2	SSW	4	c	2	cp, o, cf	0.0	55	51	0.05
	Prawle Point ...	30.21	52	S	3	o	30.15	− .16	55	54	+ 7	SW	4	c	3	op, o	*	55	48	0.01
	Jersey (St. Aubin's)	30.37	54	S	3	ogm	30.32	− .10	55	54	+ 6	SSE	1	ow	1	ogm	*	55	49	—
	Hurst Castle ...	30.24	52	SE	2	o	30.18	− .18	55	54	+ 8	SW	4	ow	3	o	*	55	46	0.02
	Dungeness ...	30.28	49	SSE	2	o	30.18	− .21	53	52	+ 6	SW	4	c	3	o, o	*	54	45	0.05
	North Foreland	30.34	46	SE	3	c	30.19	− .23	47	46	+ 2	S	4	r	3	c	*	47	45	0.07
	London (Brixton) ...	30.27	45	S	2	o	30.15	− .25	54	53	+ 13	WSW	3	or	*	om, or	0.0	54	41	0.13
	Oxford	30.22	44	SE	2	r	30.12	− .26	54	52	+ 14	SSW	3	r	*	o, r	*	54	40	0.12
	Cambridge ...	30.27	42	S	2	o	30.10	− .33	53	52	+ 18	SSW	4	o	*	o	.08	54	34	0.05
	Yarmouth ...	30.28	45	S	2	c	30.11	− .28	52	51	+ 13	SSW	3	cmq	3	bcv, c	*	52	38	0.06
Germany & Holland.	Cuxhaven ...	30.36	39	W	2	o	30.26	− .10	33	33	− 6	S	1	c	*	drhp	*	46	32	0.04
	Berlin	30.41	36	WSW	2	b	30.33	− .05	34	33	+ 1	WSW	2	bc	*	b	*	43	32	—
	Wiesbaden ...	*	*	*	*	*	30.36	− .10	42	40	+ 7	NE	2	o	*	*	*	48	35	—
	Munich	30.41	41	L	o	o	30.39	− .03	42	42	− 2	W	3	c	*	o	*	45	39	0.08
	The Helder ...	30.34	39	SSE	1	m	30.18	− .24	39	38	+ 3	S	1	f	1	m	*	45	36	—
Belgium.	Brussels ...	*	*	*	*	*	30.29		44	43		SW	1	o	*	o	*	46	35	—
	Cape Gris Nez ...	30.27	43	SE	1	m	30.19	− .15	51	51	+ 11	SW	4	o	4	m	*	52	37	0.04
	Paris	30.35	46	E	2	b	30.31	− .05	45	45	+ 1	S	2	f	*	b	*	54	44	—
	Brest	30.20	55	SSE	3	bc	30.15	− .10	56	55	+ 6	SE	3	o	3	bc	*	59	45	—
	Lorient	30.26	52	ESE	2	m	30.20	− .08	52	52	+ 2	SE	2	m	2	m	*	55	46	—
France &	Rochefort ...	30.21	57	ENE	2	o	30.21	+ .01	51	50	+ 4	ESE	4	b	*	o	*	61	47	—
	Belfort	30.39	42	L	o	f	30.41	+ .05	44	44	− 1	L	o	o	*	f	*	53	36	—
	Lyons	30.35	57	N	1	b	30.41	+ .05	42	42	− 1	S	1	b	*	b	*	61	41	—
	Nice	30.36	57	L	o	b	30.37	+ .04	52	49	+ 1	L	o	b	2	b	*	66	50	—
	Perpignan ...	30.33	56	L	o	b	30.36	+ .05	57	?	− 2	L	o	o	*	b	*	64	56	—
	Biarritz ...	30.20	58	E	4	o	30.19	.00	51	48	+ 3	E	3	b	2	b	*	63	48	—
Peninsula.	Corunna ...																*			
	Lisbon	30.05	58	N	3	b	30.07	+ .09	57	54	+ 2	NNE	5	c	*	b	*	63	55	—
	Azores (P. Delgada)	30.19	60	SSW	3	o	30.09	− .19	62	59	+ 3	SW	5	o	3	o	*	63	59	—

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, 17th NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

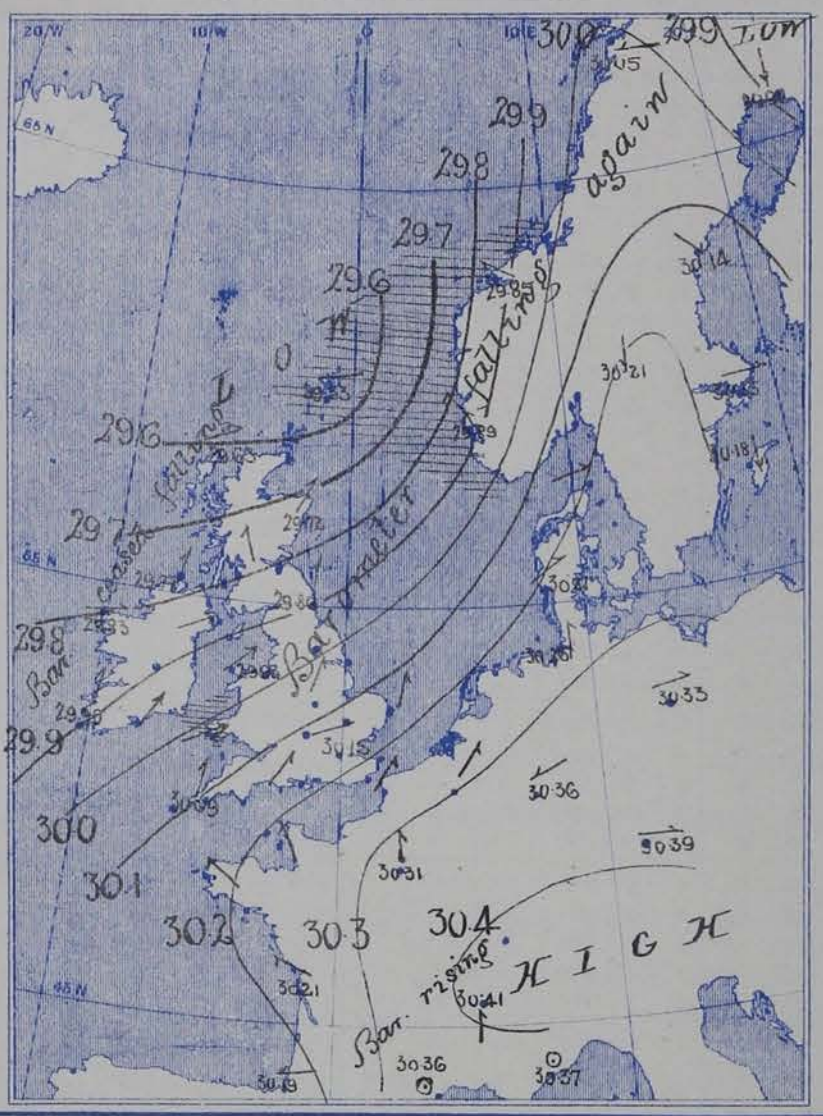
BAROMETER—Isobars are drawn for each tenth of an inch.

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

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; } Calm ⊙

Force 8 to 10 ⟫⟶ ;

SEA—*Rough* ▤ ; *High* ▩

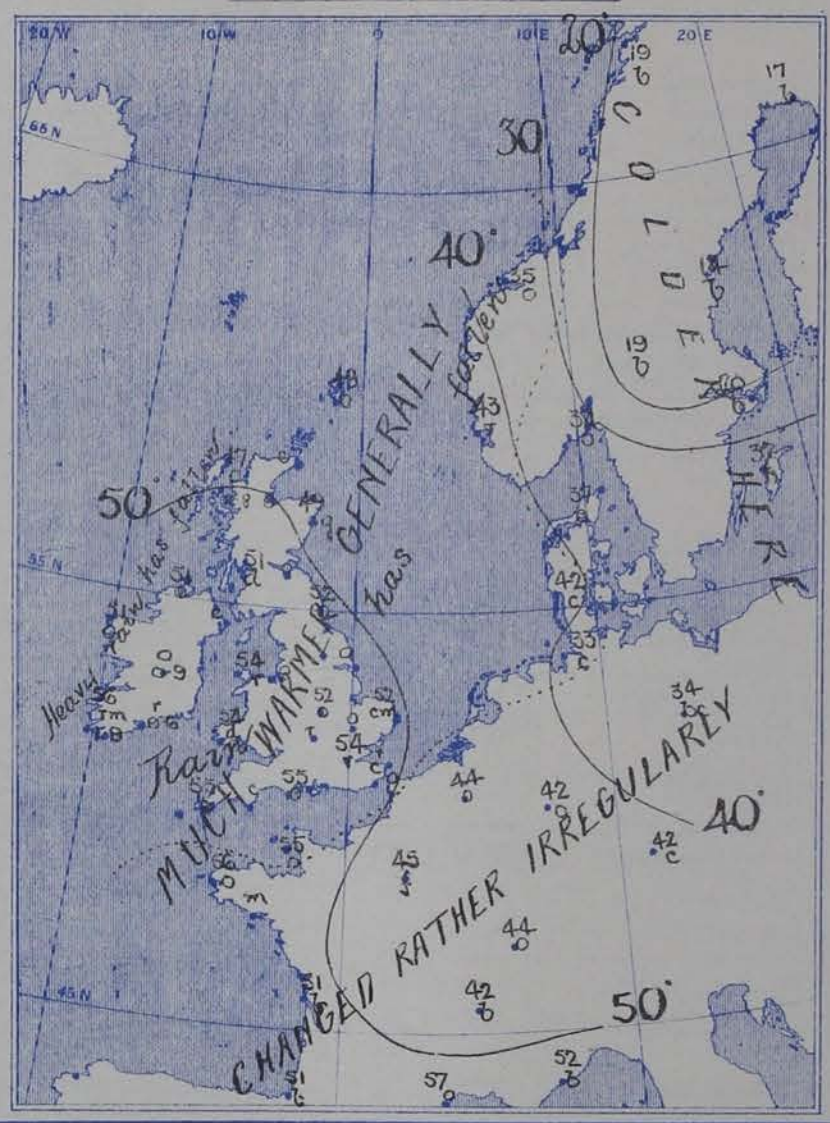


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29 854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29 862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50 3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29 910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5¼	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 the E. of France; 30.2 ins. and upwards in an anticyclone lying over the whole of France, Germany, the Netherlands and the south of Sweden.
Lowest 29.6 ins. and less in a depression lying off the north of Scotland.
Gradients rather steep over the North Sea, but moderate or slight elsewhere.
Barometer falling over W^rn Europe generally, but inclined to rise at some of our own W^rn and S^rn stations, as well as in France.

TEMPERATURE

Highest 57° at Perpignan and Lisbon, 56° at Valencia (Ireland) and Brest, and 55° at Rocks Pt., Scilly, Prawle Pt., Jersey and Hurst Castle.
Lowest 14° at Hernösand, 17° at Haparanda, 19° at Bodö and Karlstad, and 20° at Stockholm, lowest in our islands, 47° at Stornoway and the N. Foreland.
Since yesterday morning a considerable rise has taken place over the United Kingdom, the change amounting to between 15° and 18° in many parts of Gt. Britain, and to as much as 24° at Nairn.

WIND

Light to fresh from the S^rn or SW^rn over our islands generally, and also over the adjacent parts of the Continent, but W^ly in the north of Scotland.
SE^ly or E^ly in the west of Norway, with a gale at Skudesnaes; N^ly or NW^ly in Sweden.
Light from the SE^rn or E^rn in the west of France, calm in the south of that country.

WEATHER

Cloudy or dull over the United Kingdom generally and also on the E^rn shores of the North Sea, with rain at many of our own western and southern stations, as well as at Skudesnaes.
Fine in Sweden and also over the greater part of France, but foggy at Paris.
Since yesterday morning rain has fallen over nearly the whole of our islands, the largest amounts being 1.9 ins. at Valencia (Ireland), 0.9 in. at Parsonstown, and 0.8 in. at Stornoway.
A solar halo was seen yesterday at Oxford.

SEA

Rather rough at Pembroke and Greenwich Pt., as well as on the Norwegian coast, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which appeared off our NW. coasts yesterday is now passing away to the N^rn of Scotland. The barometer in the W. is, however, very unsteady and the wind there shows little disposition to veer, so that another depression may be expected shortly.

FORECASTS

For the 24 hours ending at NOON on 18TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	SW^ly and S^ly winds increasing in force, unsettled, rain at times.	▼ 6 SCOTLAND WEST	Same as No. 0 and 1.
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
▼ 2 ENGLAND N.E.	Same as No. 5.	8 ENGLAND S.W.	Same as No. 5.
3 ENGLAND EAST		▼ 9 IRELAND NORTH	Same as No. 0 and 1.
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
5 ENGLAND SOUTH	S^ly and SW^ly winds, freshening, mild, unsettled, rain at times	WARNINGS	At 7.20 pm yesterday to districts 1, 2 and 7 Hoist South Cone. The signals are still flying there and also in districts 0, 6, 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.86	39	37	NNW	4	o	3
Sumburgh Head	30.07	40	37	S	2	o	4
Stornoway	29.88	45	43	SW	5	o	6
Aberdeen	30.11	38	35	SSW	3	og	3
Shields	30.22	40	37	SSW	3	o	3
Ardrossan	30.08	47	47	SSE	4	r	3
Malin Head ...	29.91	45	44	S	6	o	2
Belmullet	29.87	48	47	S	5	ow	*
Holyhead	30.15	48	45	S	3	dmg	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.00	51	51	S	4	r	5
Scilly	30.08	55	54	S	4	o	1
Jersey	30.29	53	52	SE	3	o	3
Hurst Castle ...	30.29	51	48	SE	2	o	2
Dungeness ...	30.31	46	42	SE	4	c	3
North Foreland	30.35	46	40	SE	3	c	3
London (Westminster)	30.30	49	41	S	2	cm	*
Yarmouth ...	30.32	46	43	WSW	1	bc	4
Rochefort ...	30.23	58	57	E	2	o	*

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

Weather in morning cloudy or dull over our islands generally, with fog or mist at several of our eastern stations and rain on our extreme SW. coasts. Fine over the the W^m. and N^rn. parts of the Continent, but dull over N^rn. Russia, with snow at Archangel and Helsingfors, as well as at Bodo. Cloudy or dull in the central and southern countries, with rain in several parts of Austria and S. Germany. Rain falling later over nearly the whole of our islands, — heavily in the south of Ireland and also in the Hebrides.

Temperature risen in our islands, and also over the N^rn. and E^rn. parts of the Continent, but fallen elsewhere. Morning readings highest 73° at La Calle, 72° at Algier, 66° at Nemours, and 64° at Barcelona and Malta, above 55° at the Mediterranean and Adriatic stations generally. Lowest 22° at Bodo, 23° at Haparanda and Hernösand, and 25° at Archangel and Karlstad, below the freezing point over the greater part of Scandinavia and N^rn. Russia, and also over E^rn. and central Scotland. General rise taking place over our islands during day and evening night, and maxima (registered next morning) varying between 50° and 55° in most places. Thermometer exceeding 60° in the S. of France, and reaching 66° at Nice.

Wind light to moderate from the E^nd. or SE^nd. over France and the S^rn. parts of our islands, but from the S^nd. or SW^nd. on all our more northern coasts. NW^ly over the greater part of N^rn. Europe, with strong gales over the Gulf of Finland and the northern parts of the Baltic, light to moderate from the W^nd. in Germany, and from SW. over central and southern Russia. Variable in Austria and Italy; N^ly over the Spanish peninsula; S^ly in Algeria. Subsequently increasing to a slight gale from the S^nd. or SW^nd. on our own extreme northwest coasts; no important change occuring elsewhere.

Barometer highest 30.4 ins. and upwards in a long and attenuated band stretching NW^nd. from the E^rn. parts of the Mediterranean across Greece, Italy and Switzerland to the Netherlands and the E. of England, 30.1 ins. and upwards in an anticyclone covering all the more W^rn., central and S^rn. parts of Europe. Lowest 29.0 ins. and less in a depression with its centre lying apparently over the Gulf of Finland. Now distance, advancing later to our own extreme NW. coasts, and barometer falling 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.

* 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 18th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.99	9	N	2	b	29.75	− .15	24	22	+ 7	SSE.	4	o	#	b	#	24	5	—
	Hernösand ...	29.98	26	S	4	f	29.55	− .59	24	22	+ 10	S	2	c	#	f	#	27	?	0.08
	Stockholm ...	30.11	28	SW	2	s	29.65	− .50	35	35	+ 15	SSW	2	r	#	s	#	35	19	0.35
	Wisby	30.18	31	N	4	o	29.71	− .47	42	41	+ 10	WSW	6	r	#	o	#	42	28	0.59
	Karlstad ...	29.93	38	SW	4	r	29.59	− .62	43	42	+ 24	SW	2	r	#	r	#	#	#	0.71
	Bodö	29.65	26	E	6	o	29.29	− .76	28	27	+ 9	E	6	o	2	o	#	28	14	—
	Christiansund ...	29.56	45	S	3	o	29.38	− .47	42	40	+ 7	WSW	5	r	3	o	#	45	34	0.35
	Skudesnaes ...	29.73	49	W	2	o	29.68	− .21	50	48	+ 7	W	6	o	4	r.o	#	50	32	#
	Færder (Christiania Fjord)	29.87	43	S	6	o	29.59	− .59	45	44	+ 11	SSW	4	o	4	o	#	45	34	0.24
	Skagen (The Scaw)	29.90	41	SW	6	r	29.71	− .48	47	46	+ 10	W	3	m	o	r	#	48	36	0.35
	Fanö	29.96	48	SSW	4	r	29.86	− .35	49	49	+ 6	WSW	4	r	#	r	#	49	41	0.12
	Sumburgh Head	29.56	49	W	3	o	29.50	− .03	46	44	− 3	W	5	o	5	o	#	50	38	0.32
	Stornoway ...	29.61	47	W	3	r	29.73	+ .10	45	44	− 2	WNW	4	o	4	o,r	0.2	51	40	0.30
	Wick	29.63	48	W	2	o	29.69	+ .06	44	43	− 5	W	3	bc	2	o	#	50	40	—
	Nairn	29.67	51	W	3	bc	29.79	+ .12	45	42	− 7	SW	1	bc	1	bc	#	55	42	0.01
	Aberdeen ...	29.74	51	SSW	2	og	29.84	+ .12	44	40	− 5	SW	3	bm	2	ogm,og	0.0	52	43	—
British Islands.	Leith	29.78	51	WSW	3	o	29.92	+ .16	48	44	− 6	WSW	3	bc	#	o	#	57	46	0.02
	Shields	29.85	55	S	2	dp	29.97	+ .11	49	48	− 3	WSW	3	o	2	o,odp	#	57	48	0.05
	Spurn Head ...	29.94	53	SW	4	bc	30.03	+ .05	49	49	− 1	W	3	od	3	o.bc	#	55	49	0.01
	York	29.91	56	SSW	3	o	30.04	+ .08	50	49	+ 1	W	1	o	#	o.r	0.0	56	47	0.08
	Loughborough ...	30.02	54	S	2	c	30.09	+ .04	50	49	− 2	WNW	1	ond	#	c,om,gd	#	59	50	0.01
	Ardrossan ...	†29.86	53	S	2	om	29.96	+ .19	50	48	− 1	W	4	b	3	rm,om	#	53	48	0.02
	Malin Head ...	29.80	51	SSW	5	o	29.99	+ .22	50	49	− 1	WNW	5	bcp	3	o	#	51	47	0.07
	Belmullet ...	29.87	52	W	3	op	30.13	+ .30	47	45	− 4	W	2	o	#	o,op	#	52	45	0.04
	Donaghadee ...	29.88	52	SW	3	o	30.07	+ .24	44	43	− 10	WSW	3	bc	1	o	#	55	43	0.19
	Liverpool (Bidston)	29.94	56	WSW	3	o	30.09	+ .12	48	46	− 5	W	2	r	3	o,r	#	57	47	0.24
	Holyhead ...	29.92	55	SW	4	rfg	30.11	+ .18	50	49	− 4	NW	3	c	2	rfg	#	55	48	1.03
	Parsonstown ...	29.93	50	S	1	r	30.17	+ .29	42	41	− 12	L	0	b	#	or	0.0	56	41	0.39
	Valencia ...	29.96	53	L	0	r	30.20	+ .30	47	44	− 9	N	1	b	2	om,r	0.0	56	45	0.47
	Roche's Point ...	29.96	55	SW	3	r	30.18	+ .23	50	48	− 5	NW	3	b	3	r	#	55	48	0.80
	Pembroke (St. Ann's Hd.)	29.99	55	WSW	6	o	30.15	+ .11	50	49	− 4	? W	4	o	4	o	0.0	55	50	0.37
	Scilly	30.03	56	SSW	3	c	30.13	+ .04	56	54	+ 1	SW	3	om	3	bc,c	4.9	60	52	0.03
	Prawle Point ...	30.09	55	SSW	3	o	30.17	+ .02	55	54	o	SW	3	c	3	o	#	56	54	—
	Jersey (St. Aubin's)	30.17	55	S	3	om	30.24	+ .02	56	55	+ 1	SSE	1	om	1	f,om	#	56	53	0.01
	Hurst Castle ...	30.12	56	SSW	4	o	30.17	− .01	56	54	+ 1	SW	3	cm	2	c,o	#	57	54	—
	Dungeness ...	30.16	52	SSW	4	c	30.16	− .02	56	55	+ 3	SW	4	c	3	c	#	56	51	0.01
	North Foreland	30.15	50	S	4	o	30.15	− .04	55	54	+ 8	SW	2	c	2	o	#	55	?47	—
	London (Brixton) ...	30.12	53	SW	3	ogm	30.13	− .02	55	53	+ 1	SW	2	c	#	od,og	0.0	55	52	0.01
	Oxford	30.09	54	SSW	3	o	30.12	.00	53	51	− 1	SW	2	o	#	o	#	58	51	—
	Cambridge ...	30.08	54	SW	4	o	30.10	.00	47	47	− 6	SW	3	o	#	o	0.1	59	46	—
	Yarmouth ...	30.05	54	SSW	3	c	30.06	− .05	52	50	o	WSW	4	bc	3	cm,c	#	56	49	—
Germany & Holland.	Cuxhaven ...	30.15	41	S	3	r	30.01	− .25	48	48	+ 15	SW	4	o	#	zp	#	48	33	0.04
	Berlin	30.30	36	SW	2	b	30.13	− .20	46	44	+ 11	W	3	o	#	b	#	45	34	—
	Wiesbaden ...	#	#	#	#	#	30.28	− .08	43	42	+ 1	NE	1	f	#	#	#	50	41	—
	Munich	30.41	48	L	0	o	30.38	− .01	44	42	+ 2	W	4	b	#	o	#	54	39	—
	The Helder ...	30.09	48	SW	4	f	30.05	− .13	50	49	+ 11	SW	2	c	1	f	#	50	39	0.04
Belgium. France &	Brussels ...	#	#	#	#	#									#		#			
	Cape Gris Nez ...	30.13	52	SW	4	o	30.13	− .06	53	53	+ 2	SW	4	o	4	o	#	54	39	—
	Paris	30.26	49	SSE	1	f	30.26	− .05	37	37	− 8	L	0	f	#	f	#	51	37	—
	Brest	30.12	57	SSE	2	bc	30.19	+ .04	56	55	o	SW	1	o	2	bc	#	57	52	—
	Lorient	30.18	59	S	1	m	30.19	− .01	52	52	o	ESE	2	m	?	m	#	61	46	—
	Rochefort ...	30.18	59	S	2	b	30.19	− .02	52	50	+ 1	SE	3	bc	#	b	#	64	48	—
	Belfort	30.33	54	W	1	m	30.34	− .07	42	42	− 2	L	0	m	#	m	#	63	40	—
	Lyons	30.35	54	ENE	1	b	30.38	− .03	43	43	+ 1	S	1	c	#	b	#	62	42	—
	Nice	30.35	59	ESE	4	o	30.40	+ .03	51	49	− 1	E	1	bc	1	o	#	63	50	—
	Perpignan ...	30.34	56	L	o	c	30.36	.00	57	57	o	NE	1	o	#	c	#	61	54	—
	Biarritz ...	30.12	62	E	4	o	30.12	− .07	58	54	+ 7	E	3	o	2	o	#	64	51	—
Peninsula.	Corunna ...																#			
	Lisbon	30.10	60	NE	3	b	30.19	+ .12	55	52	− 2	NNE	3	b	#	b	#	64	54	—
	Azores (P. Delgada)	30.13	58	NNE	5	r	30.17	+ .08	57	56	− 5	NNE	4	bc	3	r	#	64	55	0.47

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 THURSDAY, 18TH NOVEMBER, 1897.

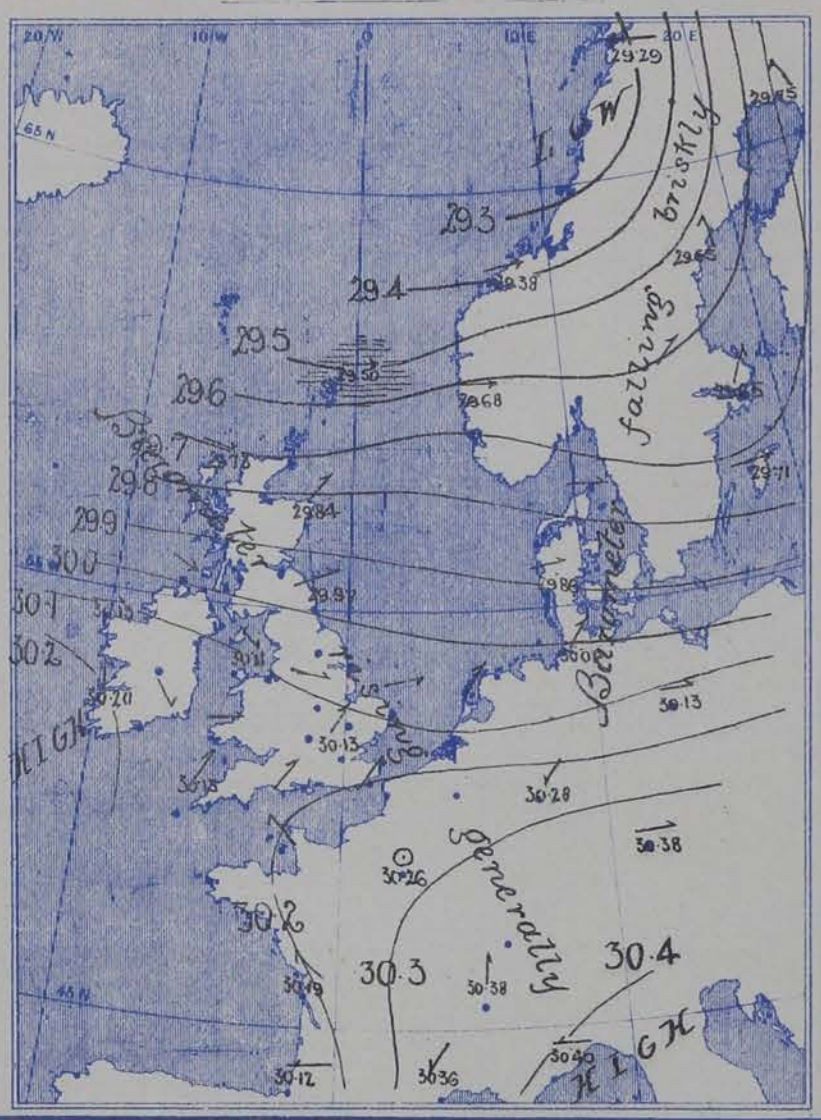
BAROMETER, WIND AND SEA.

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*

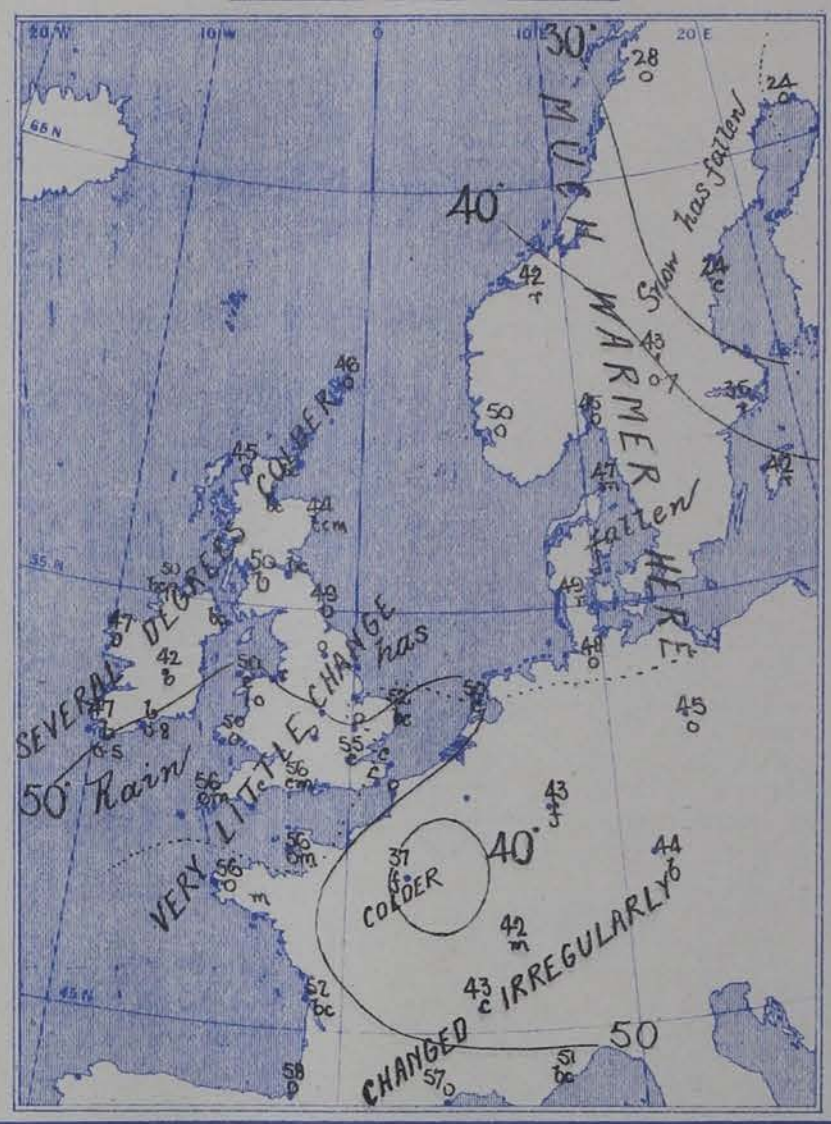


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29 854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	82	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29 910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 an anticyclone lying over the S.W. parts of France and Germany;
30·2 ins. and upwards in another system appearing off the southwest of Ireland
Lowest 29·3 ins. and less in a depression lying off the west of Norway.
Gradients slight generally, but moderate over the North Sea and the N.W. parts of Scandinavia.
Barometer rising in our islands and France, but falling elsewhere, - briskly in Scandinavia.

TEMPERATURE

Highest 58° at Biarritz, 57° at Perpignan, and 56° at Scilly, Jersey, Hurst Castle, Dungeness & Brest.
Lowest (1) 24° at Haparanda and Hernösand and 28° at Bodö; (2) 37° at Paris and 42° at Belfast, (3) 43° at Parsonstown
During yesterday the thermometer rose to 56° and upwards in most parts of the United Kingdom,
to 59° at Loughborough and Cambridge, and to 60° at Scilly.

WIND

W. ½ or SW. ½ over our islands, the Netherlands, Germany, Denmark and the S. of Scandinavia;
light or moderate in force generally, but strong at Skudesnaes and Wisby. S. ½ over the
northern parts of Sweden; E. ½ at Bodö.
Calm over central France; light from the E. ⅓ or SE. ⅓ in the Bay of Biscay.

WEATHER

Fair or fine over the greater part of the United Kingdom and France, but dull over the N.W.
and central parts of England, with slight rain in places.
Rain at several of the Scandinavian and Danish stations.
Heavy rain again fell yesterday at some of our own W. stations, and also in Sweden, the
largest amounts being 1·0 in. at Holyhead; 0·8 in. at Rockes Pt., and 0·7 in. at Karlstad

SEA

Moderate to smooth generally, but rather rough at Dunnet Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new anticyclone is beginning to spread over our islands from the SW. ⅓, and the wind is therefore likely to veer to the NW. ⅓, with colder weather. Small irregularities in pressure are likely to occasion rain today in many of our S. districts, but as these pass away the weather will improve temporarily.

FORECASTS

For the 24 hours ending at NOON on 19TH NOVEMBER 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W. ½ to NW. ½ winds, freshening; changeable, some showers, colder.
2 ENGLAND N.E.	W. ½ to NW. ½ winds, light, some rain at first then fair, colder.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW. ½ to NW. ½ winds, light; cloudy at first, with rain in places, then fair, colder.
6 SCOTLAND WEST 7 ENGLAND N.W.	W. ½ to NW. ½ winds, moderate, fair generally, colder.
8 ENGLAND S.W.	Same as Nos 3 to 5.
9 IRELAND NORTH 10 IRELAND SOUTH	NW. ½ winds, light or moderate, fair generally, colder.
WARNINGS	At 7.10 pm yesterday to districts 0 to 2 and 6, 7, 9 and 10 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·19	49	49	S	8	rf	5
Sumburgh Head	29·60	50	49	W	3	o	4
Stornoway	29·64	51	48	WSW	3	o	4
Aberdeen	29·74	52	51	SW	2	ogm	2
Shields	29·86	55	53	SSW	3	o	2
Ardrossan	29·77	52	51	S	2	rm	2
Malin Head ...	29·80	51	51	SSW	3	o	1
Belmullet	29·85	52	52	WSW	1	o	*
Holyhead	29·93	55	54	SW	4	rfg	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·91	54	54	NW	0	r	3
Scilly	30·06	59	56	SSW	4	be	3
Jersey	30·18	52	54	S	2	f	2
Hurst Castle ...	30·14	56	53	SSW	3	c	3
Dungeness ...	30·17	52	51	SW	4	c	3
North Foreland	30·16	52	50	S	4	o	3
London (Westminster)	30·11	56	53	SSW	3	od	*
Yarmouth ...	30·07	56	54	SSW	3	owr	4
Rochefort ...	30·18	63	59	SE	3	b	*

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 at several of our own W^m. and S^m. stations, and also at Skudesnaes, Prague and Buda Pesth; snow falling at S^t. Petersburg. Fine in Sweden and also in the W. and S. of France; foggy over central France. Rain falling later in most parts of NW^m. Europe, - heavily at some of our W^m. stations. Large quantities of rain or snow reported also in Sweden.

Temperature risen quickly in our islands, and less rapidly in the neighbouring parts of the Continent, but fallen elsewhere. Morning readings highest 71° at Algiers, 65° at La Calle, and 64° at Oran and Malta; above 55° at most of the Mediterranean and Spanish coast stations and just touching that point on several parts of our own S^m. and SW^m. coasts. Lowest 14° at Hernösand, 17° at Haparanda, and 19° at Bodö and Karlstad; below the freezing point in most parts of Russia and Scandinavia. Rising during day to 55° and upwards over the United Kingdom generally, and to 60° at Scilly; exceeding 60° in the W. and S. of France.

Wind light to fresh from the S^wd. or SW^wd. over our islands and the adjacent parts of the Continent; SE^ly. or E^ly. in the west of Norway, with a gale at Skudesnaes. N^ly. or NW^ly. over Sweden and N^rn. Russia; W^ly. over the central and southern parts of Russia. Variable in Germany, Austria and Italy; E^ly. or SE^ly. in the west and south of France; N^ly. or NE^ly. over the Spanish peninsula. No important change occurring over western Europe during day.

Barometer highest 30.4 ins. and upwards over all the more SE^rn. parts of Europe; 30.2 ins. and upwards in an anticyclone covering the greater part of the Continent. Lowest 28.8 ins. and less in a deep depression over the extreme N. of Russia; 29.6 ins. and less in another disturbance lying off the N. of Scotland. Latter disturbance subsequently moving slowly NE^wd. but changes in pressure over W^rn. Europe very slight.

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 FRIDAY NOVEMBER 19TH 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.51	24	S	4	o	29.32	-.43	29	28	+5	S	4	S	#	o	#	29	1	—
	Hernösand ...	29.45	22	E	o	b	29.38	-.17	32	31	+8	SSW	2	o	#	b	#	32	19	0.04
	Stockholm ...	29.60	38	W	2	b	29.65	0.0	39	38	+4	SSW	2	bc	#	b	#	41	28	0.08
	Wisby	29.68	42	W	8	b	29.81	+.10	42	42	+2	WSW	4	c	#	b	#	45	30	0.04
	Karlstad ...	29.64	40	SW	2	b	29.67	+.08	45	43	+2	SW	4	bc	#	b	#	#	#	—
	Bodö	29.21	32	E	5	o	28.92	-.37	37	35	+9	ESE	4	o	1	o	#	37	27	0.47
	Christiansund ...	29.39	45	SW	9	+	29.23	-.15	49	47	+7	WSW	9	+	6	+	#	50	39	0.83
	Skudesnaes ...	29.86	49	WSW	7	o	29.79	+.11	50	49	o	WSW	8	o	5	c.o	#	50	32	#
	Færder (Christiania Fjord)	29.70	46	WSW	5	b	29.67	+.08	49	46	+4	SW	6	bc	4	b	#	49	45	—
	Skagen (The Scaw)	29.83	49	NW	4	bc	29.88	+.17	48	44	+1	W	5	o	1	bc	#	38	46	—
	Fanö	30.09	46	WSW	4	b	30.14	+.28	47	46	-2	WSW	6	o	#	b	#	49	39	0.12
	Sumburgh Head	29.64	48	W	6	o	29.58	+.08	52	50	+6	W	4	o	6	fr.c.o	#	52	46	0.12
	Stornoway ...	29.82	48	W	4	o	29.86	+.13	51	50	+6	W	5	oq	4	c.ou.o	1.7	51	45	0.15
	Wick	29.83	45	SW	2	bc	29.80	+.11	55	53	+11	W	5	c	2	bc	#	55	40	—
	Nairn	29.92	48	W	3	bc	29.89	+.10	55	52	+10	WSW	4	c	1	bc	#	55	42	0.02
	Aberdeen ...	29.97	48	SW	3	c	29.95	+.11	55	50	+11	SW	4	cq	2	bc	5.8	56	43	—
	Leith	30.06	48	WSW	3	bc	30.11	+.19	52	50	+4	WSW	5	o	#	bc	#	52	46	—
	Shields	30.18	47	W	1	bm	30.20	+.23	50	48	+1	WSW	4	c	2	bc.bm	#	53	45	—
	Spurn Head ...	30.23	46	W	3	bw	30.32	+.29	42	40	-7	WSW	4	bc	3	b.bw	#	50	39	—
	York	30.22	47	WSW	1	b	30.32	+.28	47	45	-3	WSW	1	b	#	c. b	3.3	54	40	—
	Loughborough ...	30.30	43	WSW	1	b	30.41	+.32	42	40	-8	WSW	2	cw	#	od.c.b	#	53	35	0.01
British Islands.	Ardrossan ...	30.11	51	WSW	3	b	30.20	+.24	52	52	+2	S	3	of	3	bf	#	53	48	0.01
	Malin Head ...	30.10	49	WSW	6	c	30.19	+.20	52	52	+2	SW	5	om	3	bc.c	#	52	48	—
	Belmullet ...	30.22	51	WSW	3	b	30.24	+.21	53	52	+6	WSW	1	+	#	bc.b	#	53	47	0.01
	Donaghadee ...	30.20	46	WSW	3	b	30.29	+.22	50	49	+6	WSW	4	c	2	b	#	52	42	—
	Liverpool (Bidston)	30.28	46	W	3	b	30.38	+.29	45	42	-3	WSW	3	b	2	+.b	#	51	43	—
	Holyhead ...	30.28	47	W	2	b	30.39	+.28	50	47	o	WSW	3	c	2	bc.b	#	52	46	—
	Parsonstown ...	30.31	43	Z	o	b	30.42	+.25	44	43	+2	Z	o	b	#	b	7.0	32	29	—
	Valencia ...	30.35	49	WSW	2	c	30.47	+.29	51	47	+4	SW	2	o	4	bcr.c	7.0	54	42	—
	Roche's Point ..	30.24	48	NW	1	b	30.29	+.31	43	42	-7	NW	1	bc	3	b	#	54	40	—
	Pembroke (St. Ann's Hd.)	30.24	48	NNE	2	b	30.47	+.32	51	48	+1	NW	4	br	3	b	3.4	53	46	—
	Scilly	30.29	54	NNE	3	bc	30.29	+.34	53	53	-1	NNE	2	bcw	1	c. bc	1.2	57	49	0.01
	Prawle Point ...	30.30	53	ESE	1	c	30.30	+.33	43	41	-12	N	2	b	1	c	#	58	41	—
	Jersey (St. Aubin's)	30.31	52	W	2	b	30.46	+.22	53	52	-1	ESE	1	om	1	c. b	#	60	48	—
	Hurst Castle ...	30.30	53	NE	1	om	30.47	+.30	47	46	-9	NNE	1	bm	1	o.om	#	58	47	—
	Dungeness ...	30.27	52	WSW	2	c	30.47	+.31	40	40	-16	NNW	1	m	1	c	#	59	39	—
	North Foreland	30.26	53	W	2	c	30.45	+.30	40	39	-15	W	2	f	2	c	#	59	38	0.02
	London (Brixton) ...	30.32	52	NW	1	o	30.48	+.35	36	36	-19	WSW	1	fco	#	bc.fr.of	0.5	59	35	—
	Oxford	30.38	40	W	1	b	30.49	+.37	32	32	-21	SW	1	bf	#	d.b	#	52	31	0.02
	Cambridge ...	30.31	44	NW	1	b	30.46	+.36	33	33	-14	SW	2	bf	#	b	0.2	52	30	—
	Yarmouth ...	30.23	48	WSW	2	bc	30.39	+.33	36	35	-16	WSW	2	bf	2	c. bc	#	53	34	0.01
Germany & Holland.	Cuxhaven ...	30.08	47	NW	3	o	30.27	+.26	42	42	-6	WSW	3	b	#	od	#	50	41	0.08
	Berlin	30.12	53	W	4	o	30.24	+.21	45	43	o	W	4	c	#	o	#	52	43	0.04
	Wiesbaden ...	#	#	#	#	#	30.43	+.15	43	42	o	NW	2	o	#	#	#	52	41	—
	Munich... ..	30.40	48	SW	2	b	30.47	+.09	42	42	-2	SW	2	b	#	b	#	50	41	—
	The Helder ...	30.24	49	W	2	bc	30.33	+.30	48	46	-2	W	2	b	2	bc	#	52	48	0.04
Belgium.	Brussels ...	#	#	#	#	#	30.47	+.23	45	45	-4	S	o	f	#	+	#	51	44	—
	Cape Gris Nez...																#			
	Paris	30.33	49	NNW	2	f	30.46	+.20	44	44	+7	NNE	2	f	#	f	#	64	37	—
	Brest	30.30	53	N	1	bc	30.48	+.24	53	53	-3	ESE	2	o	2	bc	#	59	46	—
	Lorient... ...	30.30	52	ESE	3	m	30.48	+.24	50	50	-2	NE	3	bc	2	m	#	57	48	—
France &	Rochefort ...	30.28	56	S	1	c	30.42	+.23	49	48	-3	ESE	2	m	#	bc.c	#	63	46	—
	Belfort	30.34	51	W	3	b	30.42	+.08	47	45	+5	WSW	3	c	#	b	#	62	42	—
	Lyons	30.34	52	NE	1	b	30.46	+.08	43	43	o	NE	1	f	#	b	#	59	40	—
	Nice	30.39	55	E	o	c	30.43	+.03	50	48	-1	E	1	c	2	c	#	63	48	—
	Perpignan ...	30.38	55	E	o	o	30.43	+.07	56	55	-1	E	o	o	#	o	#	61	54	—
	Biarritz ...	30.23	62	E	2	c	30.34	+.22	58	54	o	SW	4	bc	2	c	#	72	58	—
Penin-sula.	Corunna ...																#			
	Lisbon	30.30	60	NNW	3	b	30.37	+.18	55	52	o	NNE	4	bc	#	b	#	64	54	—
	Azores (P. Delgada)	30.23	55	NNE	3	b	30.19	+.02	53	51	-4	NNW	3	b	2	b	#	61	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 5.3 hrs;

WEATHER CHARTS

FOR FRIDAY, 19TH NOVEMBER, 1897.

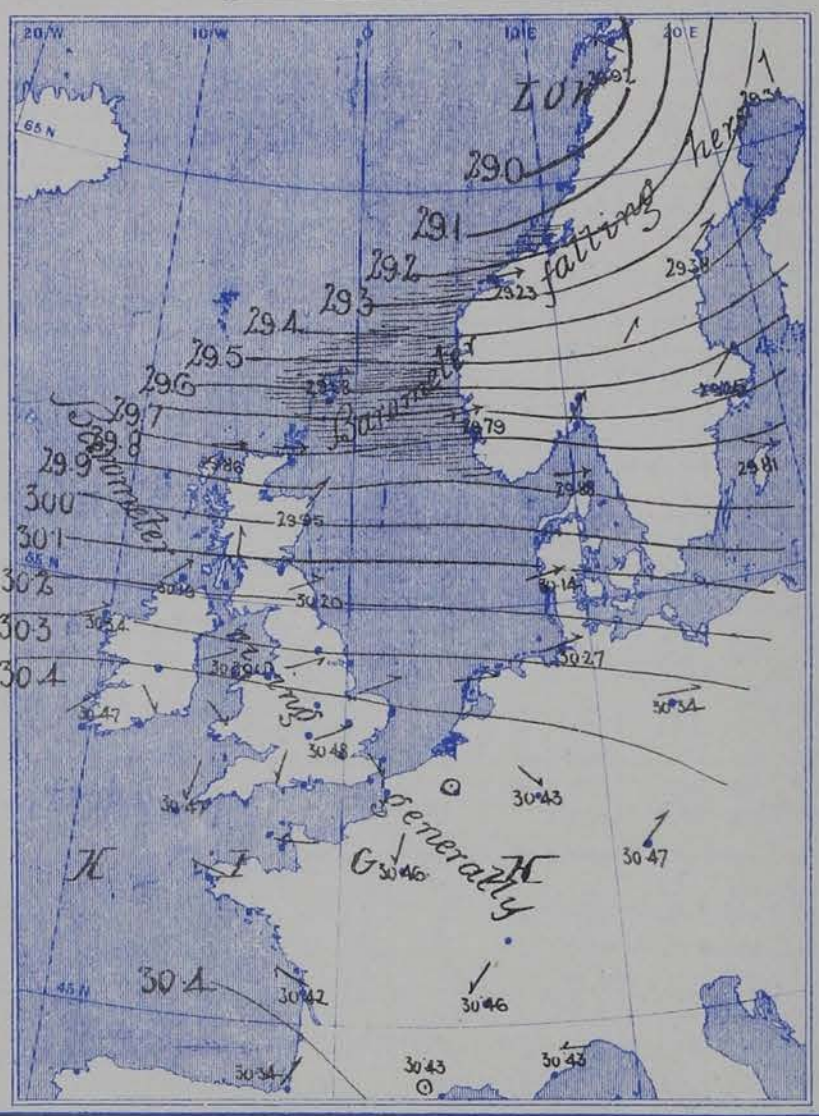
BAROMETER, WIND AND SEA.

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* ▬

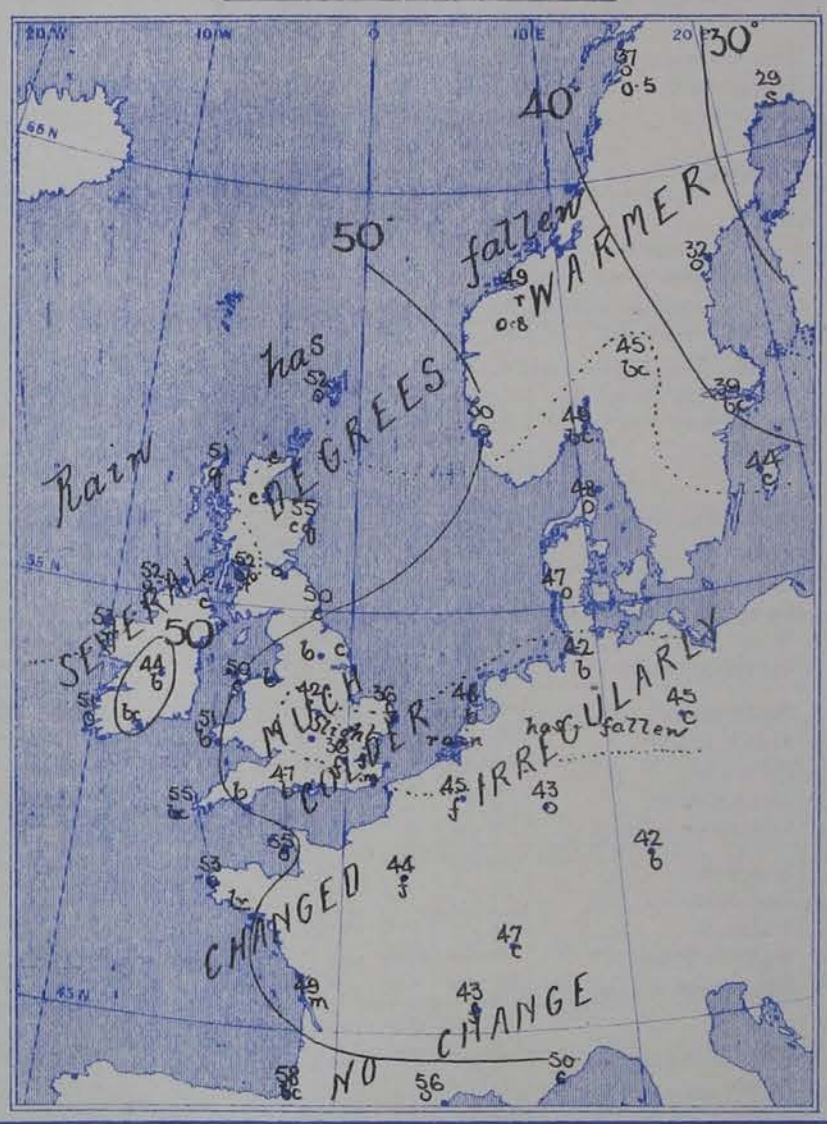


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 an anticyclone lying over all the more S^rn. parts of our Islands, and also over the greater part of France, Belgium and W^n. and S^n. Germany.
Lowest 29.0 ins. and less in a large and deep depression lying off the NW. of Norway.
Gradients rather steep over all the more N^rn. parts of our area, but slight in the S.
Barometer falling in Scandinavia and also in the N^e. of Scotland, but rising elsewhere.

TEMPERATURE

Highest (1) 58° at Biarritz, 56° at Perpignan, and 55° at Lisbon; (2) 55° at Scilly and Jersey; (3) 55° at Wick, Nairn and Aberdeen.
Lowest (1) 29° at Haparanda, 32° at Hernösand, and 37° at Bodö; (2) 32° at Oxford, 33° at Cambridge, and 36° in London and at Yarmouth.
Frost occurred last night over some of the inland parts of England, the lowest readings reported being; – (1) In the screen 30° at Cambridge, and 31° at Oxford; (2) On the grass, 28° in London.

WIND

W^ly. or SW^ly. over the greater part of our islands, Scandinavia, Denmark, Germany and the Netherlands, light to fresh in force generally, but strong to a gale in the W. of Norway.
Light from the N^rn. or NW^wd. on our south and southwest coasts, and from the NE^rn. or E^rn. at most of the French stations.

WEATHER

Fair over W^rn. Europe as a whole, but foggy over the SE^rn. parts of England, as well as in Belgium and central France.
Dull in the extreme W. and N. of our islands, and also in the W^rn. and N^rn. parts of Scandinavia, with rain at Belmullet and Christiansund, and snow at Haparanda.
Slight showers fell yesterday in several parts of Gt. Britain, and heavy rain in the W. of Norway. A lunar halo was seen at Spurn Head this morning.

SEA

Slight or smooth generally, but rough off the Shetlands and the W. of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 20TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^ly. winds, strong; cloudy, squally, some showers.
1	SCOTLAND EAST	W^ly. and SW^ly. winds, fresh; fair at first, some showers later.
2	ENGLAND N.E.	
3	ENGLAND EAST	Light breezes, chiefly W^ly.; fair generally, but foggy or misty in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as N^os. 1 and 2.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N^rly. to W^ly. winds, light; fair generally.
9	IRELAND NORTH	SW^ly. and W^ly. winds, fresh or strong; dull, some rain.
10	IRELAND SOUTH	Same as N^os. 1 and 2.
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.75	50	46	WSW	6	c	4
Sumburgh Head	29.60	49	45	W	6	c	6
Stornoway	29.82	49	46	W	4	ou	4
Aberdeen	29.92	50	44	SW	3	b	2
Shields	30.09	51	47	W	3	bc	2
Ardrossan	30.06	53	50	WSW	3	bf	3
Malin Head ...	30.07	51	48	W	6	be	3
Belmullet	30.18	52	47	W	2	be	*
Holyhead	30.22	50	47	WSW	3	be	2
Valencia	30.28	55	48	WSW	1	bcr	4
Scilly	30.22	55	54	NNE	4	c	2
Jersey	30.26	59	55	WNW	3	c	3
Hurst Castle ...	30.22	57	54	WSW	2	o	2
Dungeness ...	30.21	57	55	WSW	4	c	3
North Foreland	30.22	54	54	WSW	3	c	2
London (Westminster)	30.21	55	51	NNW	1	o	*
Yarmouth ...	30.16	51	49	NW	3	c	3
Rochefort ...	30.25	63	59	S	1	be	*

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

Weather in morning fair over the greater part of W^rn. and S^rn. Europe, but dull in the N^rn. and central parts of England, with slight rain in places. Dull in most of the N^rn. and central countries, with fog in many parts of Germany, Austria and central France, rain in Denmark and the S^rn. parts of Scandinavia, and snow over the Baltic provinces and the Gulf of Finland. Showers falling in several parts of Gt. Britain, and heavy rain in the W. of Norway.

Temperature risen quickly in Scandinavia, Denmark and Germany, but fallen in most other localities. Morning readings highest 68° at Algiers and Tunis, 64° at Cagliari, and 63° at Malta; above 55° at most of the Adriatic, Mediterranean and Spanish coast stations, as well as over the English Channel. Lowest 7° at Ulealeo, 11° at Haparanda, 14° at Archangel, and 19° at Kharkov; below the freezing point over the whole of Russia and the N^rn. parts of Scandinavia. Rising during day to 55° and upwards in the S. of England, and to 60° at Jersey, exceeding 60° at most of the French stations, and reaching 72° at Biarritz. Frost occurring in several of the inland parts of England at night.

Wind W. ½ or SW. ½ over our islands and the northern and central parts of the Continent as a whole, but S. ½ over the Gulf of Bothnia and E. ½ at Bodö; light to moderate in force generally, but strong at some of the Scandinavian and Baltic stations. Light from the E^rly. or SE^rly. over the greater part of France, but N. ½ or NE. ½ in Spain and Italy; calm or variable in Austria. Subsequently veering to the NW^rly. or N^rly. on our own extreme southern coasts; and increasing to a gale from the W^rly. in the west of Norway.

Barometer highest 30.5 ins. and upwards over Turkey, the neighbouring provinces and the southern parts of the Adriatic; 30.2 ins. and upwards in an anticyclone covering the whole of central and southern Europe, and also in a new system just appearing off the southwest of Ireland. Lowest 29.3 ins. and less in a depression off the W. of Norway; 29.6 ins. and less in another disturbance over N^rn. Russia. Anticyclone from Atlantic subsequently spreading over all the more S^rn. parts of our islands and also over France; depression off W. of Norway growing somewhat deeper.

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 20th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	28·74	33	S	2	r	28·78	−·54	28	26	− 1	N	2	o	#	r	#	37	19	0·91
	Hernösand ...	29·12	40	SW	2	b	29·07	−·31	40	37	+ 8	W	6	c	#	b	#	43	18	—
	Stockholm ...	29·36	50	SW	6	o	29·42	−·23	41	36	+ 2	NW	6	b	#	o	#	50	36	—
	Wisby	29·58	47	W	8	o	29·55	−·26	44	40	0	NW	8	b	#	o	#	48	41	—
	Karlstad ...	29·45	50	WSW	6	b	29·65	−·02	40	35	− 5	W	4	b	#	b	#	#	#	—
	Bodö	28·73	41	W	8	o	29·03	+·11	41	38	+ 4	N	4	b	1	o	#	45	32	—
	Christiansund ...	29·20	43	WNW	10	r	29·71	+·48	42	39	− 7	NW	9	r	7	r,b	#	49	37	0·43
	Skudesnaes ...	29·79	49	WNW	6	bc	30·14	+·35	46	44	− 4	NW	9	c	5	o.bc	#	52	43	#
	Færder (Christiania Fjord)	29·55	52	W	6	b	29·82	+·15	45	39	− 4	WNW	7	b	4	b	#	52	45	—
	Skagen (The Scaw)	29·74	49	WNW	9	o	29·93	+·05	·46	42	− 2	NW	9	b	3	o	#	52	45	—
	Fanö	30·12	50	WSW	6	o	30·24	+·10	48	44	+ 1	NW	6	c	#	o	#	50	46	—
British Islands.	Sumburgh Head	29·74	47	W	8	o	30·21	+·63	47	43	− 5	W	4	o	6	bc.o	#	52	45	0·15
	Stornoway ...	30·07	48	WNW	5	o	30·34	+·48	51	51	0	WNW	4	o	4	rrq.o	0·0	52	45	0·07
	Wick	29·99	53	W	6	bc	30·35	+·55	48	47	− 7	W	2	o	2	bc	#	56	43	—
	Nairn	30·08	54	NW	5	c	30·40	+·51	52	51	− 3	W	2	c	1	c	#	58	48	—
	Aberdeen ...	30·08	55	WSW	4	cq	30·42	+·17	45	43	− 10	SSW	1	cm	1	bc.cq	2·9	59	45	—
	Leith	30·17	52	WSW	4	o	30·48	+·37	52	50	0	WSW	2	c	#	o	#	55	50	—
	Shields	30·26	53	WSW	3	bm	30·51	+·31	51	50	+ 1	WSW	3	c	2	o.bm	#	55	49	—
	Spurn Head ...	30·34	50	W	4	b	30·56	+·24	49	48	+ 7	WNW	3	b	2	b.w	#	51	41	—
	York	30·34	53	W	4	bc	30·57	+·25	52	50	+ 5	W	1	b	#	bc	0·2	54	45	—
	Loughborough ...	30·44	47	SW	2	b	30·60	+·19	51	51	+ 9	WNW	1	cm	#	bc,b,cm	#	53	42	—
	Ardrossan ...	30·28	54	WSW	3	o	30·54	+·34	53	52	+ 1	W	3	c	2	bc.o	#	58	51	—
	Malin Head ...	30·33	52	W	6	rm	30·54	+·35	52	52	0	W	4	cm	2	rm	#	52	51	0·03
	Belmullet ...	30·45	54	W	2	cm	30·67	+·33	52	51	− 1	WSW	1	o	#	cm	#	54	50	0·03
	Donaghadee ...	30·38	54	SW	4	c	30·59	+·30	50	49	0	W	4	bc	2	c	#	54	49	—
	Liverpool (Bidston)	30·45	51	WSW	4	o	30·64	+·26	51	50	+ 6	WSW	2	o	3	o	#	53	45	—
	Holyhead ...	30·45	53	SW	2	og	30·63	+·24	52	50	+ 2	SW	1	o	1	ogm	#	54	47	—
	Parsonstown ...	30·48	52	W	2	o	30·63	+·21	50	49	+ 6	L	o	o	#	c,od	1·6	53	43	—
	Valencia ...	30·55	52	L	o	o	30·64	+·17	48	47	− 3	L	o	c	2	c,o	0·0	55	45	—
	Roche's Point ..	30·52	50	W	2	b	30·67	+·18	50	48	+ 7	L	o	o	2	b	#	54	42	—
	Pembroke (St. Ann's Hd.)	30·54	47	NW	2	b	30·66	+·19	52	51	+ 1	L	o	og	2	b	4·0	53	46	—
	Scilly	30·52	51	NNE	1	bw	30·63	+·16	49	47	− 6	N	1	bw	1	b.bw	8·3	59	46	—
	Prawle Point ...	30·58	54	SW	2	b	30·67	+·17	45	44	+ 2	N	1	b	1	b	#	60	41	—
	Jersey (St. Aubin's)	30·53	54	NNE	3	bm	30·65	+·19	47	47	− 6	NW	2	bcm	2	c,bm	#	61	40	—
	Hurst Castle ...	30·52	44	W	2	bm	30·67	+·20	44	43	− 3	NNE	1	bm	1	b	#	53	39	—
	Dungeness ...	30·50	44	N	1	b	30·63	+·16	40	39	0	NNW	1	m	1	bc.b	#	52	35	—
	North Foreland	30·50	40	W	2	b	30·62	+·17	45	44	+ 5	WSW	2	b	2	b	#	48	40	—
	London (Brixton) ...	30·50	41	WSW	1	bw	30·64	+·16	43	42	+ 7	SW	1	ogf	#	c.bm	0·0	47	36	—
	Oxford	30·52	42	WSW	2	b	30·65	+·16	44	43	+ 12	W	1	c	#	b	#	51	32	—
	Cambridge ...	30·48	41	SW	2	b	30·63	+·17	43	43	+ 10	WSW	1	b	#	b	6·4	53	32	—
	Yarmouth ...	30·39	45	WSW	3	bc	30·56	+·17	45	44	+ 9	W	2	bm	2	b	#	49	35	—
Germany & Holland.	Cuxhaven ...	30·26	45	WSW	5	bc	30·32	+·05	48	48	+ 6	NW	2	bc	#	bc	#	50	42	—
	Berlin	30·32	44	WSW	4	b	30·31	−·03	47	46	+ 2	W	4	r	#	b	#	54	41	—
	Wiesbaden ...	#	#	#	#	#	30·59	+·16	35	35	− 8	NW	2	f	#	#	#	48	34	—
	Munich	30·50	45	SW	1	b	30·58	+·11	42	42	0	SW	3	c	#	b	#	55	37	—
	The Helder ...	30·37	49	WSW	4	b	30·50	+·15	50	49	+ 2	WNW	3	c	2	b	#	50	48	—
Belgium.	Brussels ...	#	#	#	#	#	30·64	+·17	40	40	− 5	SW	2	f	#	f	#	55	37	—
	Cape Gris Nez ...	30·45	49	E	1	m	30·57		48	47		N	1	m	1	m	#	54	45	—
	Paris	30·53	46	NNE	2	f	30·62	+·16	46	46	+ 2	ENE	1	f	#	f	#	48	43	—
	Brest	30·51	55	NNE	1	o	30·59	+·16	46	43	− 7	ENE	1	b	1	o	#	55	41	—
	Lorient	30·53	53	ENE	3	c	30·62	+·19	48	48	− 8	ENE	4	m	3	c	#	57	46	—
France &	Rochefort ...	30·50	55	NE	3	b	30·58	+·16	50	49	+ 1	ENE	4	o	#	b	#	61	46	—
	Belfort	30·43	50	SW	2	m	30·55	+·13	41	41	− 6	L	o	f	#	m	#	63	41	—
	Lyons	30·48	51	WNW	1	b	30·60	+·14	44	44	+ 1	N	2	o	#	b	#	55	40	—
	Nice	30·43	52	L	o	c	30·41	−·02	51	49	+ 1	L	o	c	o	c	#	63	50	—
	Perpignan ...	30·59	55	L	o	b	30·41	−·02	56	52	0	NW	2	b	#	b	#	66	50	—
	Biarritz ...	30·42	59	W	3	o	30·47	+·13	57	53	− 1	ESE	?	o	2	o	#	61	55	—
Peninsula.	Corunna ...																#			
	Lisbon	30·39	59	NNE	4	b	30·42	+·05	54	51	− 1	NE	4	b	#	b	#	66	54	—
	Azores (P. Delgada)	30·19	57	WNW	1	bc	30·19	·00	54	51	+ 1	WSW	1	b	2	bc	#	61	53	—

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.. 0·4 hrs;

WEATHER CHARTS

FOR SATURDAY, 20th NOVEMBER, 1897.

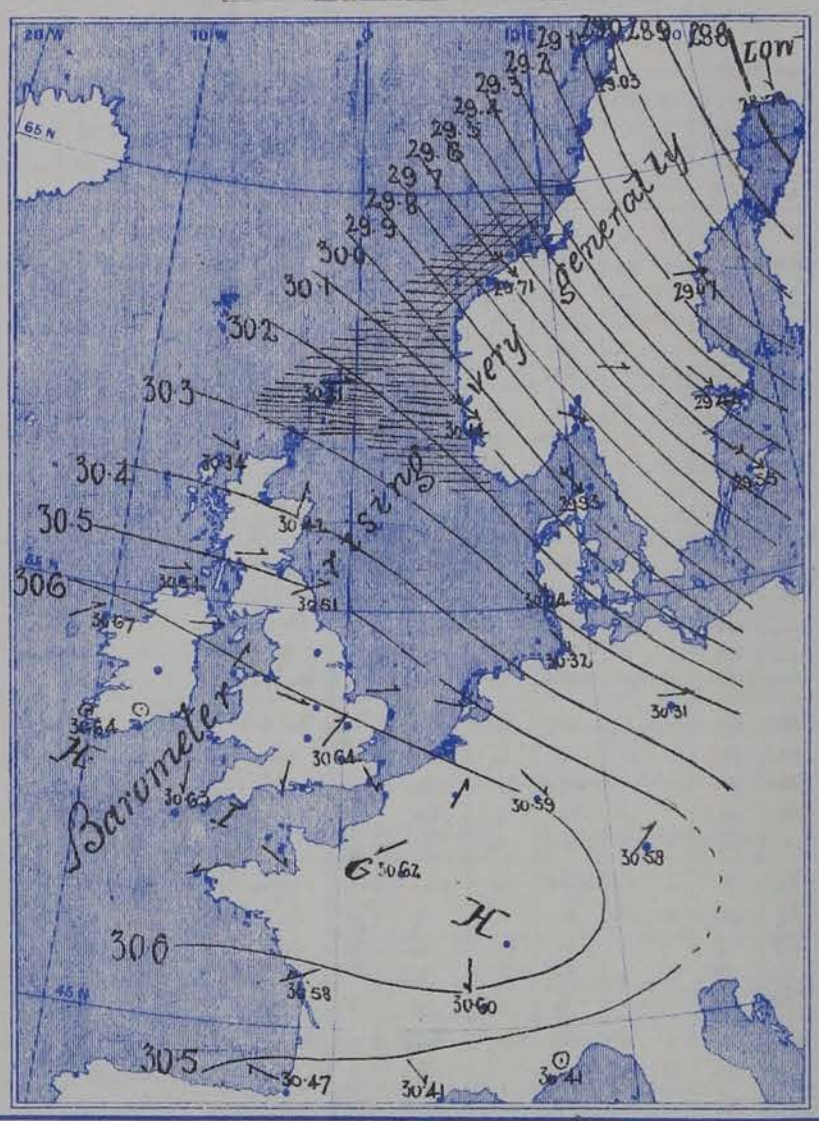
BAROMETER, WIND AND SEA.

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*

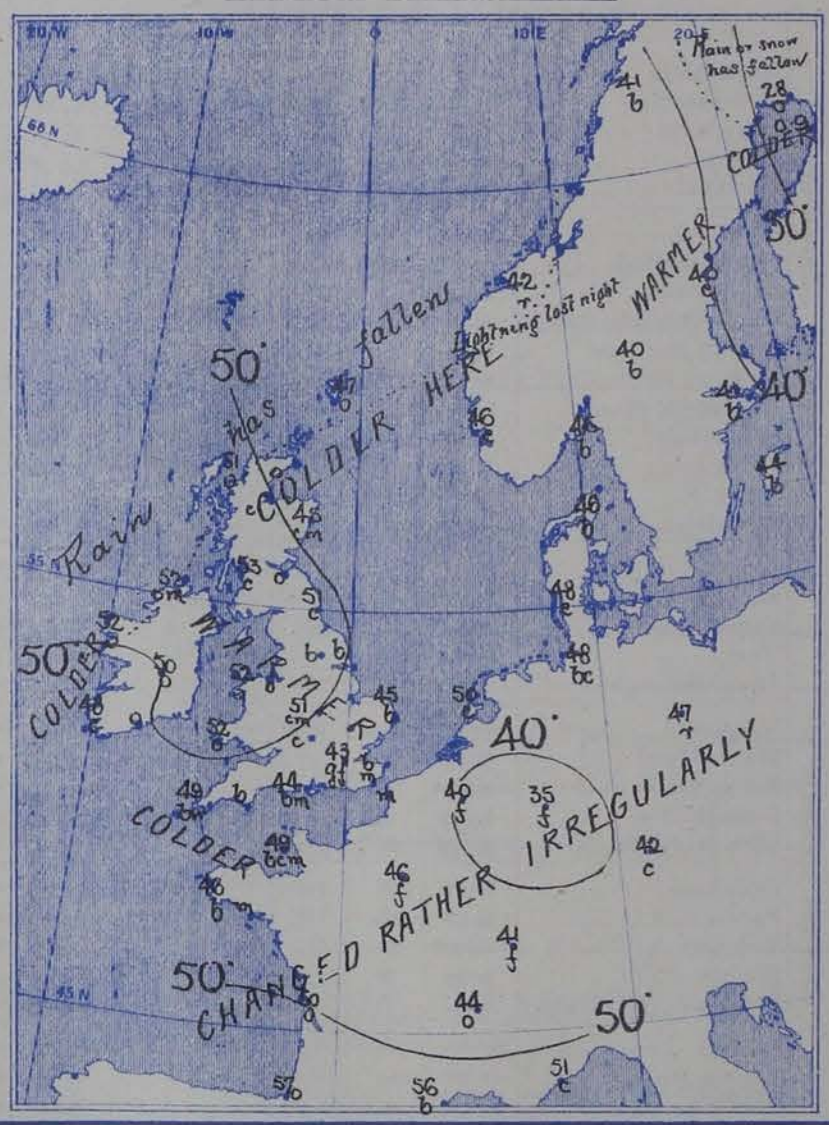


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years	Minimum.	Years.		Hours	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29 854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29 862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50 3	43·6	58	1884, 95	28	1890	4 04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29 910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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. and upwards over the W^rn. and S^rn. parts of our islands and the N^rn. and central parts of France; 30.2 ins. and upwards in an anticyclone embracing nearly the whole of W. Europe.

Lowest 28.8 ins. and less in a depression over Lapland.

Gradients steep over Scandinavia, Denmark and the Baltic, but slight over our Islands & France.

Barometer rising generally.

TEMPERATURE

Highest (1) 57° at Biarritz, 56° at Perpignan, 54° at Lisbon, and 51° at Nice; (2) 53° at Ardrossan, and 52° at Leith, York, Malin Hd., Belmullet and Holyhead.

Lowest (1) 28° at Haparanda, and 40° at Hernösand, ~~Stockholm~~ and Karlstad, (2) 35° at Wiesbaden, and 40° at Brussels and Dungarvon.

During yesterday the thermometer rose to 55° and upwards at most of the Scotch stations, and to 59° at Aberdeen, to 60° at Prawle Pt. and to 61° at Jersey. At most stations in the S.E. of England it failed to reach 50°.

WIND

Light to moderate from the W^rn. over the greater part of our islands, but calm in the S. of Ireland, and N^rly at the English Channel stations; light from the E^rn. or NE^rn. in France.

Strong to a gale from the NW^rn. in Scandinavia and Denmark

WEATHER

Fair over W^rn. Europe as a whole, but cloudy and misty in places. Fog prevailed in London, as well as at Brussels, Wiesbaden, Paris and Belfort. Rain was falling at Berlin, and also at Christiansund.

Slight rain fell yesterday on our extreme N. and NW. coasts, and larger quantities at Christiansund & Haparanda, but in other parts of our area the weather remained very dry. Lightning was seen last night at Christiansund.

SEA

Slight or smooth generally, but high at Christiansund and rough in the extreme N. generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone continues to increase both in size and height, and fair dry weather is therefore still probable over our islands, with, however, fog or haze in places.

FORECASTS

For the 24 hours ending at NOON on 21^st. NOV. 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^rly winds, moderate, cloudy, mild.
1	SCOTLAND EAST	W^rly winds, light, fair generally, but misty or foggy in places.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Light breezes, chiefly NW^rly, fair generally, but misty or foggy in places.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 1 and 2.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Variable or N^rly airs, fair generally, but local fogs.
9	IRELAND NORTH	Same as Nos. 1 and 2.
10	IRELAND SOUTH	Calms or variable airs, cloudy, misty.
	WARNINGS	At 1.45 pm yesterday to parts of districts 0 and 1. Hoist North Cone. At 10.20 am. today 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.76	52	51	WSW	8	0	5
Sumburgh Head	29.65	49	44	W	8	be	6
Stornoway	29.96	50	48	WNW	5	org	5
Aberdeen	29.98	58	52	WSW	3	be	2
Shields	30.21	53	51	SW	4	o	2
Ardrossan	30.21	58	56	WSW	3	be	3
Malin Head ...	30.24	52	52	SW	6	r	3
Belmullet	30.38	49	48	WSW	2	ow	*
Holyhead	30.41	53	50	SW	4	o	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.49	53	50	SSW	2	c	4
Scilly	30.50	53	49	NNE	1	b	1
Jersey	30.49	58	56	NNE	2	c	2
Hurst Castle ...	30.49	53	47	NNW	2	b	1
Dungeness ...	30.46	52	46	N	1	be	0
North Foreland	30.49	46	44	W	2	b	1
London (Westminster)	30.46	49	45	W	1	bm	*
Yarmouth ...	30.38	49	46	WSW	3	b	2
Rochefort ...	30.48	59	57	SE	2	b	#

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

Weather in morning fair over W.rn Europe as a whole, but foggy over the SE.rn parts of England, as well as in Belgium and central France and dull on our own extreme N and NW. coasts, with rain at Belmullet. Dull in most other parts of Europe, with fog in Austria, rain at Christiansund and snow at Haparanda and Moscow. Slight rain falling later in the extreme N. and NW. of our islands generally, and larger amounts at Christiansund and Haparanda; lightning seen at Christiansund at night.

Temperature fallen considerably over England and to a less extent in many parts of central Europe, risen or changed irregularly elsewhere. Morning readings highest 68° at Sfax, 64° at Malta, and 63° at Algiers; above 55° at most of the Mediterranean and Adriatic stations, and just touching that point in the NE. of Scotland. Lowest 14° at Archangel, 21° at Moscow, 23° at Ulealong, and St. Petersburg, and 24° at Kuopio; below the freezing point over the N.rn parts of Sweden and Russia generally, and very little above it over central England. Rising later to 59° at Aberdeen, to 60° at Prawle Pt, and to 61° at Jersey, but remaining below 50° at many stations in the SE. of England. Exceeding 60° in the W. and S. of France, and reaching 66° at Perpignan and Lisbon.

Wind W.rly to SW.rly over the greater part of our islands, Scandinavia, Denmark, Germany and the Netherlands; light to fresh in force generally, but strong to a gale in the W. of Norway; S.rly or SE.rly at most of the Russian stations. Light from the N.rd in the extreme S. of England, and from NE. or E. over the greater part of France, Spain and Italy; calm or variable in Austria. Subsequently increasing to a gale from the W.rd in the Shetlands; no important change occurring elsewhere.

Barometer highest 30.4 ins. and upwards in an anticyclone lying over the S.rn parts of our islands and the greater part of central and S.rn Europe. Lowest 29.0 ins. and less in a deep depression lying off the NW. of Norway (gradients rather steep over Scandinavia, the North Sea and the N.rn parts of our islands); 29.5 ins. and less in a shallower system over central Russia. Depression in N. subsequently moving E.rd; and anticyclone extending over the greater part of W.rn 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.

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

for 8 a.m. on Sunday 21st November, 1897.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.45	23	N	2	b	29.83	+ 1.05	17	16	− 11	L	0	b	*	b	*	32	17	−
	Hernösand ...	29.74	43	N	4	b	29.95	+ 0.88	39	37	− 1	W	3	0	*	b	*	45	34	−
	Stockholm ...	29.86	41	NW	8	b	30.22	+ .80	36	33	− 5	W	4	b	*	b	*	50	39	−
	Wisby	29.92	44	NW	9	b	30.25	+ .70	41	37	− 3	NNW	8	b	*	b	*	45	41	−
	Karlstad ...	30.12	41	NW	8	b	30.28	+ .63	37	34	− 3	NW	2	0	*	b	*	*	*	−
	Bodö	29.54	39	W	4	r	29.65	+ .62	38	37	− 3	S	5	0	3	r	*	41	34	0.24
	Christiansund ...	30.21	42	W	9	r	30.10	+ .39	48	47	+ 6	SW	3	r	6	r	*	48	39	0.28
	Skudesnaes ...	30.38	47	NNW	4	b	30.43	+ .29	50	49	+ 4	W	4	r	3	c,b	*	50	43	*
	Færder (Christiania Fjord)	30.22	45	W	4	b	30.30	+ .48	47	45	+ 2	W	5	bc	4	b	*	47	45	—
	Skagen (The Scaw)	30.02	46	NW	7	bc	30.39	+ .46	47	45	+ 1	WNW	3	bc	0	bc	*	50	43	—
	Fanö	30.49	47	NW	6	b	30.59	+ .35	47	47	− 1	WNW	2	c	*	b	*	48	46	—
	Sumburgh Head	30.30	50	W	2	0	30.28	+ .07	51	51	+ 4	W	4	r	5	r,0	*	51	47	0.02
	Stornoway ...	30.41	50	WSW	3	0	30.38	+ .04	52	51	+ 1	SW	5	0	5	0	0.0	52	48	—
	Wick	30.43	50	NW	3	c	30.41	+ .06	49	47	+ 1	SSW	1	c	1	c	*	54	46	—
	Nairn	30.50	54	W	1	bc	30.51	+ .11	52	49	0	W	1	c	1	bc	*	56	47	—
	Aberdeen ...	30.52	52	SW	2	bc	30.52	+ .10	47	45	+ 2	SW	2	bcw	1	bc	2.5	57	43	—
	Leith	30.56	52	WSW	3	c	30.57	+ .09	52	50	0	WSW	3	0	*	c	*	57	50	—
	Shields	30.59	50	WSW	3	b	30.63	+ .12	43	42	− 8	WSW	2	bcm	2	c,b	*	57	42	—
	Spurn Head ...	30.62	48	W	3	b	30.66	+ .10	47	46	− 2	SW	2	0	3	b,w	*	54	44	0.01
	York	30.63	49	W	1	b	30.67	+ .10	44	44	− 8	WSW	1	f	*	b,f	3.2	58	36	—
	Loughborough ...	30.66	47	SW	1	0	30.70	+ .10	49	48	− 2	WSW	1	ogm	*	c,bc,om	*	57	47	—
BRITISH ISLANDS.	Ardrossan ...	30.60	53	SSW	3	0	30.59	+ .05	52	51	− 1	SSW	3	0	2	0	*	54	50	—
	Malin Head ...	30.57	51	W	3	0	30.57	+ .03	49	48	− 3	S	2	og	0	0	*	52	48	—
	Belmullet ...	30.65	51	L	0	b	30.59	− .08	50	49	− 2	SSW	1	0	*	b	*	54	49	—
	Donaghadee ...	30.65	51	SW	2	c	30.62	+ .03	50	50	0	WSW	2	0	0	c	*	54	48	—
	Liverpool (Bidston)	30.68	51	L	0	0	30.68	+ .04	48	47	− 3	SSW	1	0	1	0	*	52	48	—
	Holyhead ...	30.66	53	S	1	om	30.65	+ .02	51	50	− 1	S	2	fa	1	om	*	54	50	—
	Parsonstown ...	30.68	52	L	0	0	30.64	+ .01	42	42	− 8	L	0	0	*	c	0.6	56	40	—
	Valencia ...	30.63	47	SE	2	b	30.62	− .02	49	46	+ 1	SE	1	0	2	c,b	0.9	53	44	—
	Roche's Point ..	30.67	49	L	0	bc	30.65	− .02	44	44	− 6	N	2	f	3	bc	*	54	43	—
	Pembroke (St. Ann's Hd.)	30.66	52	SE	1	0	30.66	.00	53	52	+ 1	SSE	4	0	3	0	0.0	53	50	—
	Scilly	30.62	54	SE	1	c	30.62	− .01	53	50	+ 4	ESE	2	c	1	bc,c	7.2	57	47	—
	Prawle Point ...	30.65	52	ENE	2	c	30.67	.00	52	51	+ 7	SSE	3	c	2	c	*	56	43	—
	Jersey (St. Aubin's)	30.65	52	ENE	2	bm	30.69	+ .04	49	48	0	ESE	4	om	3	bm	*	58	47	—
	Hurst Castle ...	30.66	52	L	0	om	30.70	+ .03	52	50	+ 8	E	4	ogm	1	om	*	52	44	—
	Dungeness ...	30.66	53	L	0	c	30.73	+ .10	52	49	+ 12	SSE	2	0	1	cm,c	*	59	39	—
	North Foreland	30.67	50	W	1	bcf	30.72	+ .10	51	49	+ 6	SW	1	0	1	b,bcf	*	54	43	0.02
	London (Brixton) ...	30.67	50	W	1	0	30.71	+ .07	49	48	+ 6	SE	2	afg	*	ogm	0.0	51	39	—
	Oxford	30.71	50	L	0	0	30.72	+ .07	48	47	+ 4	L	0	og	*	0	*	51	43	—
	Cambridge ...	30.68	48	W	1	0	30.73	+ .10	43	43	0	SW	1	om	*	0	5.7	58	37	—
	Yarmouth ...	30.62	50	NNW	1	b	30.70	+ .14	40	39	− 5	W	3	f	3	b	*	54	38	—
GERMANY & HOLLAND.	Cuxhaven ...	30.50	43	WNW	3	bc	30.63	+ .31	48	48	0	W	2	0	*	bc	*	50	43	—
	Berlin	30.43	44	WNW	5	b	30.59	+ .28	44	43	− 3	NW	3	c	*	b	*	52	41	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30.65	44	L	0	0	30.76	+ .18	37	37	− 5	NW	1	b	*	0	*	46	37	—
	The Helder ...	30.64	49	W	1	m	30.70	+ .20	49	48	− 1	WSW	1	c	1	m	*	50	46	—
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	30.73	+ .09	46	45	+ 6	L	0	f	*	b	*	47	39	—
	Cape Gris Nez ...	30.62	51	S	1	m	30.68	+ .11	50	48	+ 2	SSE	1	m	0	m	*	54	46	—
	Paris	30.66	43	NE	1	bc	30.71	+ .09	43	43	− 3	NE	2	b	*	bc	*	51	42	—
	Brest	30.62	50	E	1	b	30.63	+ .04	45	44	− 1	ESE	1	0	1	b	*	57	49	—
	Lorient	30.62	51	ENE	4	b	30.60	− .02	45	45	− 3	E	4	m	4	b	*	56	41	—
	Rochefort ...	30.60	50	ENE	4	0	30.60	+ .02	44	43	− 6	ENE	4	0	*	0	*	55	39	—
	Belfort	30.61	41	E	3	m	30.65	+ .10	40	39	− 1	ENE	6	m	*	m	*	50	39	—
	Lyons	30.59	47	N	2	0	30.63	+ .03	42	41	− 2	NNW	1	0	*	0	*	48	41	—
	Nice	30.38	52	L	0	b	30.41	.00	55	47	+ 4	L	0	b	1	b	*	61	50	—
	Perpignan ...	30.40	59	NW	3	b	30.50	+ .09	44	44	− 12	W	1	b	*	b	*	68	43	—
	Biarritz ...	30.60	57	NNE	2	0	30.49	+ .02	52	51	− 5	L	0	0	2	0	*	59	52	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.40	59	ENE	2	b	30.41	− .01	53	51	− 1	NNE	4	bc	*	b	*	64	52	—
	Azores (P. Delgada)	30.21	56	WSW	3	b	30.18	− .01	56	53	+ 2	N	3	0	2	b	*	63	54	—

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 SUNDAY, 21st NOVEMBER, 1897.

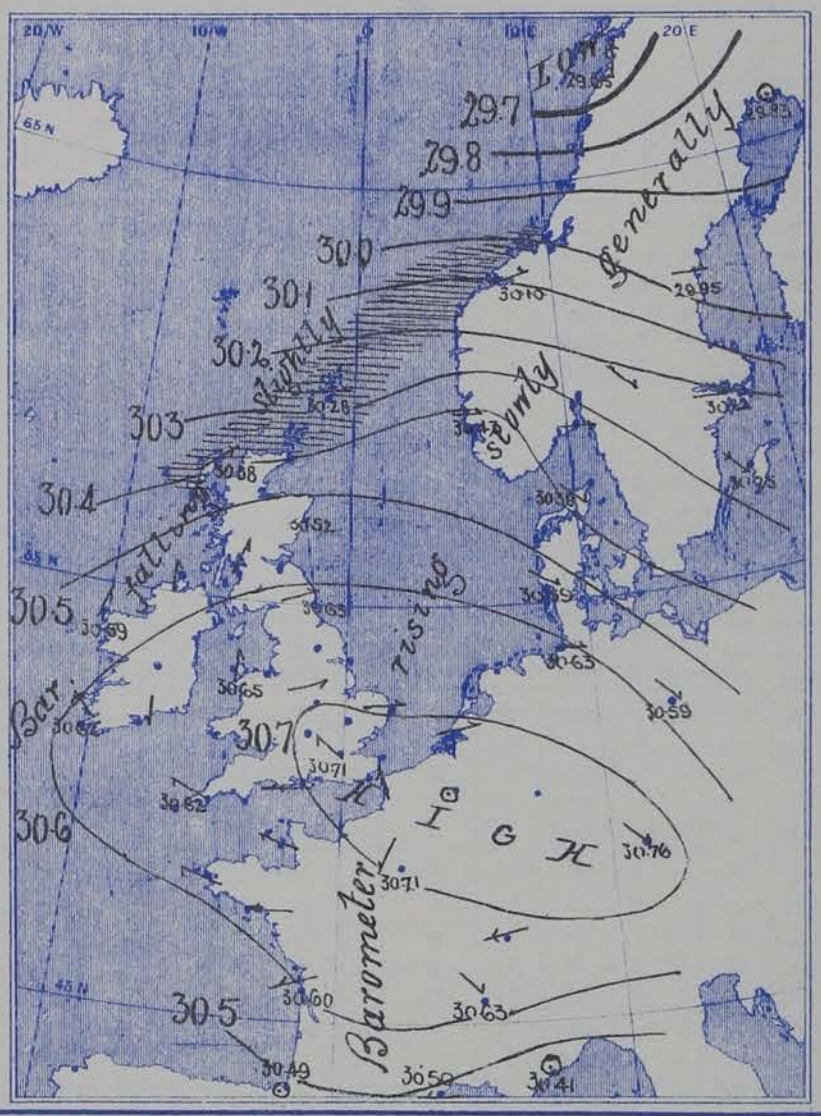
BAROMETER, WIND AND SEA.

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 ▩

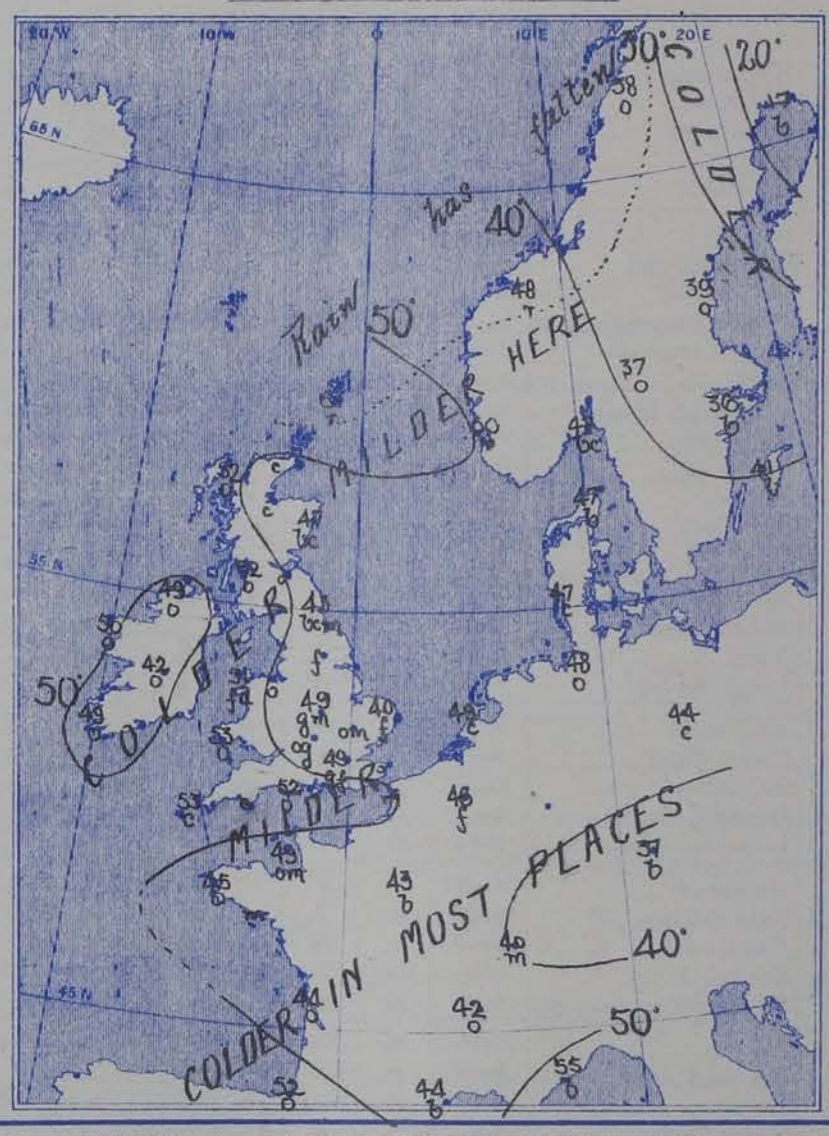


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins: and upwards over the southeast parts of England, the Netherlands, the northeast of France, and west and south of Germany.
30·3 ins: and upwards in an anticyclone embracing nearly the whole of Western Europe.
Lowest, 29·7 ins: and less, in a depression lying off the northwest of Norway.
Gradient moderate to rather steep over Scandinavia and the extreme north of Scotland, but slight elsewhere.
Barometer rising generally, but falling very slightly in the west and extreme north of our Islands.

TEMPERATURE

Highest (1) 55° at Nice, 53° at Lisbon and 52° at Biarritz; (2) 53° at Pembroke and Scilly, (3) 52° at Stornoway, Leith and Ardrossan.
Lowest, 17° at Haparanda, 36° at Stockholm, and 37° at Karlstad; (2) 37° at Munich and 40° at Belfort; (3) 42° at Parsonstown, and 43° at Fields and Cambridge.
During yesterday the thermometer rose to 55° and upwards in many parts of Great Britain to 58° at York and Jersey and to 59° at Dunglass.

WIND

Light to moderate from the E.ly or NE.ly over the greater part of France, but calm in the extreme south of that country; SE. on our own southern coasts.
SW. over all the more northern parts of the United Kingdom; W. or NW. in Scandinavia and Denmark, with a gale at Wisby.

WEATHER

Cloudy or dull over Western Europe as a whole, with fog or mist in many parts of England and the south of Ireland, as well as at Brussels and Belfort: raining at Sumburgh Head and also on the west coasts of Norway.
Fine in Sweden and Denmark and also in the extreme south of France.
Slight rain fell yesterday at Sumburgh Head and somewhat larger quantities in the west of Norway, but over Europe generally the weather remained very dry.

SEA

Slight or smooth generally but rough at Christiansund and rather rough off the north of Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 22nd Nov: 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH		6 SCOTLAND WEST	
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	NONE ISSUED.	8 ENGLAND S.W.	NONE ISSUED.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	?	47	45	NNW	6	c	5
Sumburgh Head	30·30	48	48	W	2	r	5
Stornoway	30·41	52	51	SW	3	o	3
Aberdeen	30·48	57	51	SW	2	bc	1
Shields	30·56	53	51	WSW	3	c	2
Ardrossan	30·58	52	52	SSW	3	o	2
Malin Head ...	? 30·58	52	51	W	3	o	2
Belmullet	30·66	54	50	WSW	1	b	*
Holyhead	30·65	54	51	SW	1	o	0
Valencia	30·63	53	50	SSE	1	c	3
Scilly	30·62	56	52	ESE	1	bc	2
Jersey	30·65	56	52	ENE	3	b	3
Hurst Castle ...	30·66	52	50	2	0	om	1
Dungeness ...	30·65	54	52	2	0	cm	0
North Foreland	30·65	53	51	W	2	b	2
London (Westminster)	30·64	54	50	2	0	bf	*
Yarmouth ...	30·60	54	52	NW	1	b	2
Rochefort ...	30·61	53	51	ENE	4	o	*

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

Weather in morning fair over Western Europe generally, but cloudy and misty in places, and foggy in London, as well as at Brussels, Wiesbaden, Paris, and Belfort. Dull in most parts of Germany, Italy and Russia, with rain at Berlin, and snow at Moscow and Ulleaborg. Fine in Spain and the extreme south of France, as well as in the south of Scandinavia. Slight rain falling later at Sumburgh Head and larger amounts in the west of Norway, but weather over Western Europe remaining very dry as a whole.

Temperature risen over England, as well as in Sweden, Denmark, and northern Russia, but changed irregularly elsewhere. Morning readings highest 68° at Algiers, 65° at Malta, 61° at Barcelona, and 59° at Sfax; above 55° at most of the Mediterranean stations, and above 50° in the western and northern parts of the United Kingdom. Lowest 6° at Archangel, 23° at Moscow, 28° at Haparanda, 31° at Ulleaborg, and 34° at Thorshavn. Rising during day to 55° and upwards in many parts of Great Britain, to 58° at York, Cambridge and Jersey, and to 59° at Deungeness. Exceeding 60° in the south of France and reaching 68° at Perpignan.

Wind light to moderate from the W.ly or SW.ly over all the more northern parts of our Islands, but N'ly in the extreme south of England and NE'ly or E'ly over the greater part of France, Spain and Italy. Strong to a gale from the NW.ly or W.ly over Scandinavia, Denmark and the Baltic, and moderate from the same quarter in Germany. Light from the SW.ly or S.ly over the central and southern parts of France. Subsequently becoming calm and variable in the south of England: NW'ly gale subsiding in the west of Norway.

Barometer highest 30·6 ins. and upwards over all the more western and southern parts of our Islands and the northern parts of France; 30 ins. and upwards in an anticyclone covering nearly the whole of western, central and southern Europe. Lowest 28·8 ins. and less. in a depression over Lapland; gradients steep over the northern and eastern parts of the Continent generally. No important change occurring over Western Europe later, but depression in far north moving 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.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Monday, 22nd November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.40	37	SW	4	b	29.33	-.50	33	29	+ 16	W	4	bc	#	b	#	41	-6	-
	Hernösand ...	29.78	47	W	2	b	29.78	-.17	38	34	- 1	SW	2	c	#	b	#	47	34	-
	Stockholm ...	30.12	42	SW	2	b	30.01	-.21	46	44	+ 10	W	4	o	#	b	#	46	36	-
	Wisby	30.26	43	NW	4	b	30.13	-.12	46	44	+ 5	WNW	4	b	#	b	#	46	39	-
	Karlstad ...	30.17	46	SW	2	bc	30.10	-.18	48	45	+ 11	SW	2	o	#	bc	#	#	#	-
	Bodö	29.50	44	W	8	r	29.56	-.09	37	36	- 1	NW	7	o	4	r	#	44	34	-
	Christiansund ...	29.96	45	WSW	9	r	30.10	.00	45	41	- 3	WNW	9	o	6	r	#	50	41	0.59
	Skudesnaes ...	30.41	50	WSW	4	o	30.38	-.05	48	47	- 2	WNW	2	bc	2	o	#	50	46	#
	Færder (Christiania Fjord)	?	48	SW	4	bc	30.17	-.13	49	46	+ 2	WSW	5	c	4	bc	#	48	46	-
	Skagen (The Scaw)	30.38	48	WNW	5	b	30.31	-.08	49	46	+ 2	WNW	7	b	2	b	#	50	45	-
	Fanö	30.58	49	WNW	4	o	30.54	-.05	49	48	+ 2	W	4	o	#	o	#	50	47	-
	Sumburgh Head	30.21	52	W	5	o	30.30	+.02	48	45	- 3	W	3	o	5	o	#	52	46	0.01
	Stornoway ...	30.36	54	WSW	4	rq	30.39	+.01	51	51	- 1	WSW	3	o	4	o.rq	0.0	54	49	0.07
	Wick	30.36	50	W	3	bc	30.39	-.02	53	51	+ 4	W	4	bc	2	bc	#	53	47	-
	Nairn	30.44	50	W	2	bc	30.46	-.05	52	50	0	WSW	3	c	1	bc	#	53	47	-
	Aberdeen ...	30.48	46	S	1	bm	30.50	-.02	42	41	- 5	SW	1	bmw	1	bm	5.3	54	41	-
	Leith	30.53	51	W	2	c	30.56	-.01	50	48	- 2	WSW	3	cm	#	c	#	53	47	-
	Shields	30.60	50	SW	2	o	30.61	-.02	46	45	+ 3	WSW	2	cm	2	o	#	52	41	-
	Spurn Head ...	30.65	48	WSW	2	o	30.64	-.02	45	43	- 2	WSW	2	b	2	om	#	50	44	-
	York	30.64	46	WSW	1	b	30.66	-.01	36	36	- 8	WSW	1	b	#	fq.b	0.0	49	35	-
	Loughborough ...	30.69	49	S	1	o	30.69	-.01	42	42	- 7	W	0	ofw	#	ogm.of	#	50	42	-
British Islands.	Ardrossan ...	30.57	51	WSW	3	o	30.60	+.01	49	49	- 3	S	3	b	2	o	#	53	48	-
	Malin Head ...	30.55	50	S	3	oq	30.56	-.01	46	45	- 3	SSW	4	b	2	o.oq	#	50	45	-
	Belmullet ...	30.60	51	SSW	1	b	30.59	.00	43	42	- 7	S	1	c	#	o.b	#	52	40	-
	Donaghadee ...	30.61	47	WSW	3	c	30.63	+.01	43	43	- 7	WSW	3	c	1	c	#	53	39	0.01
	Liverpool (Bidston)	30.67	50	S	1	o	30.67	-.01	42	40	- 6	S	1	b	1	om	#	52	41	-
	Holyhead ...	30.64	52	SW	1	op	30.65	.00	46	45	- 5	S	1	cf	0	op	#	52	45	0.01
	Parsonstown ...	30.63	45	W	0	b	30.62	-.02	46	45	+ 4	W	0	o	#	b	6.5	53	40	-
	Valencia ...	30.60	50	SE	2	c	30.60	-.02	52	49	+ 3	W	0	om	2	c	4.0	56	46	-
	Roche's Point ...	30.63	51	ESE	2	om	30.64	-.01	52	49	+ 8	SE	2	o	2	f.om	#	52	44	-
	Pembroke (St. Ann's Hd.)	30.65	52	ESE	3	c	30.65	-.01	50	48	- 3	ESE	3	oq	3	o.c	0.6	54	50	-
	Scilly	30.61	52	ESE	2	c	30.58	-.04	54	51	+ 1	E	2	om	1	c	4.2	57	48	-
	Prawle Point ...	30.66	51	ESE	3	o	30.62	-.05	51	49	- 1	ENE	3	o	2	o	#	52	44	-
	Jersey (St. Aubin's)	30.63	51	ENE	3	bm	30.61	-.06	47	46	- 2	ENE	2	bm	2	b.bm	#	52	45	-
	Hurst Castle ...	30.67	50	ENE	1	bc	30.66	-.04	45	45	- 7	NE	2	f	2	bcm	#	53	44	-
	Dungeness ...	30.69	51	NE	2	b	30.67	-.06	47	47	- 5	ENE	2	f	1	b	#	57	47	-
	North Foreland	30.75	47	WNW	1	b	30.70	-.02	49	48	- 2	E	2	b	2	b	#	56	47	-
	London (Brixton) ...	30.71	46	S	1	o	30.69	-.02	42	40	- 7	ESE	1	bc	#	om.bfw	0.0	51	39	-
	Oxford	30.71	49	S	1	o	30.71	-.01	34	34	- 14	W	0	f	#	oq.f	#	50	34	-
	Cambridge ...	30.72	48	W	0	f	30.71	-.02	34	34	- 9	SW	1	f	#	f	0.0	50	33	-
	Yarmouth ...	30.68	48	WSW	1	f	30.68	-.02	46	45	+ 6	W	0	bf	2	f	#	50	38	-
Germany & Holland.	Cuxhaven ...	30.64	45	W	1	bc	30.64	+.01	46	46	- 2	WSW	2	o	#	m.c	#	50	45	-
	Berlin	30.65	48	WNW	4	o	30.62	+.03	48	46	+ 4	WNW	3	o	#	o	#	50	44	-
	Wiesbaden ...	#	#	#	#	#	30.74		44	43		NW	1	o	#	#	#	46	41	-
	Munich	30.77	35	E	2	b	30.74	-.02	29	29	- 8	SE	2	b	#	b	#	45	28	-
	The Helder ...	30.70	50	SW	1	m	30.68	-.02	49	48	0	WSW	1	o	1	m	#	50	48	-
Belgium.	Brussels ...	#	#	#	#	#	30.74	+.01	31	31	- 15	ESE	1	f	#	b	#	53	31	-
	Cape Gris Nez ...	30.66	48	E	1	m	30.65	-.03	42	41	- 8	E	1	m	1	m	#	54	39	-
	Paris	30.67	45	NE	2	bc	30.66	-.05	32	32	- 11	NE	2	m	#	bc	#	55	32	-
	Brest	30.60	45	NE	1	o	30.56	-.07	44	42	- 1	ENE	1	b	0	o	#	52	30	-
	Lorient	30.57	53	E	3	b	30.56	-.04	44	43	- 1	ENE	4	m	2	b	#	57	43	-
France &	Rochefort ...	30.47	47	ENE	4	b	30.55	-.05	46	45	+ 2	E	3	o	#	b	#	57	39	-
	Belfort	30.64	42	ENE	6	b	30.67	+.02	35	34	- 5	ENE	4	m	#	b	#	48	34	-
	Lyons	30.64	40	N	1	f	30.68	+.05	36	36	- 6	W	1	f	#	f	#	48	36	-
	Nice	30.47	57	NE	2	b	30.60	+.19	48	43	- 7	W	0	b	1	b	#	68	48	-
	Perpignan ...	30.52	49	W	0	b	30.57	+.07	42	41	- 2	W	2	b	#	b	#	61	41	-
	Biarritz ...	30.47	54	NE	3	o	30.44	-.05	46	45	- 6	E	3	o	2	o	#	55	45	-
Peninsula.	Corunna ...																#			
	Lisbon	30.39	58	NNE	3	b	30.43	+.02	53	51	0	NE	3	b	#	b	#	64	52	-
	Azores (P. Delgada)	30.15	62	ESE	3	bc	30.09	-.09	63	61	+ 7	SSE	5	c	?	bc	#	64	?	-

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, 22nd November, 1897.

BAROMETER, WIND AND SEA.

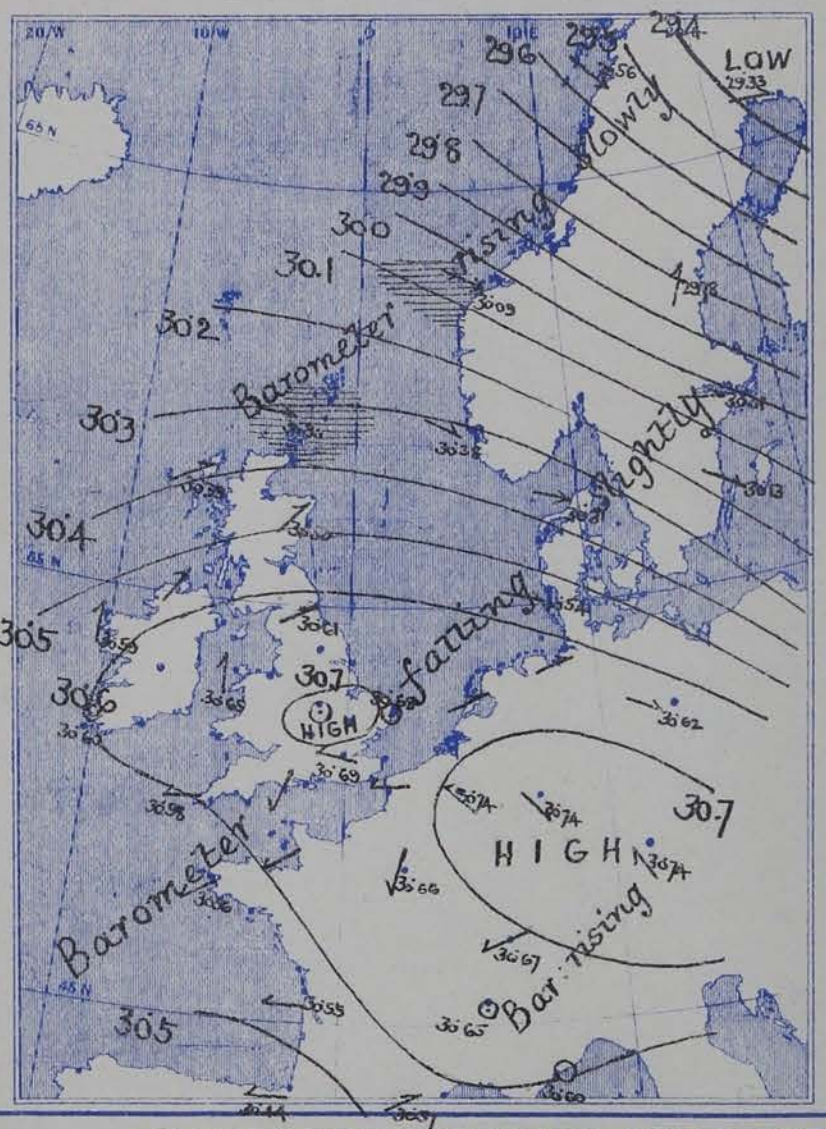
BAROMETER—Isobars are drawn for each tenth of an inch.

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

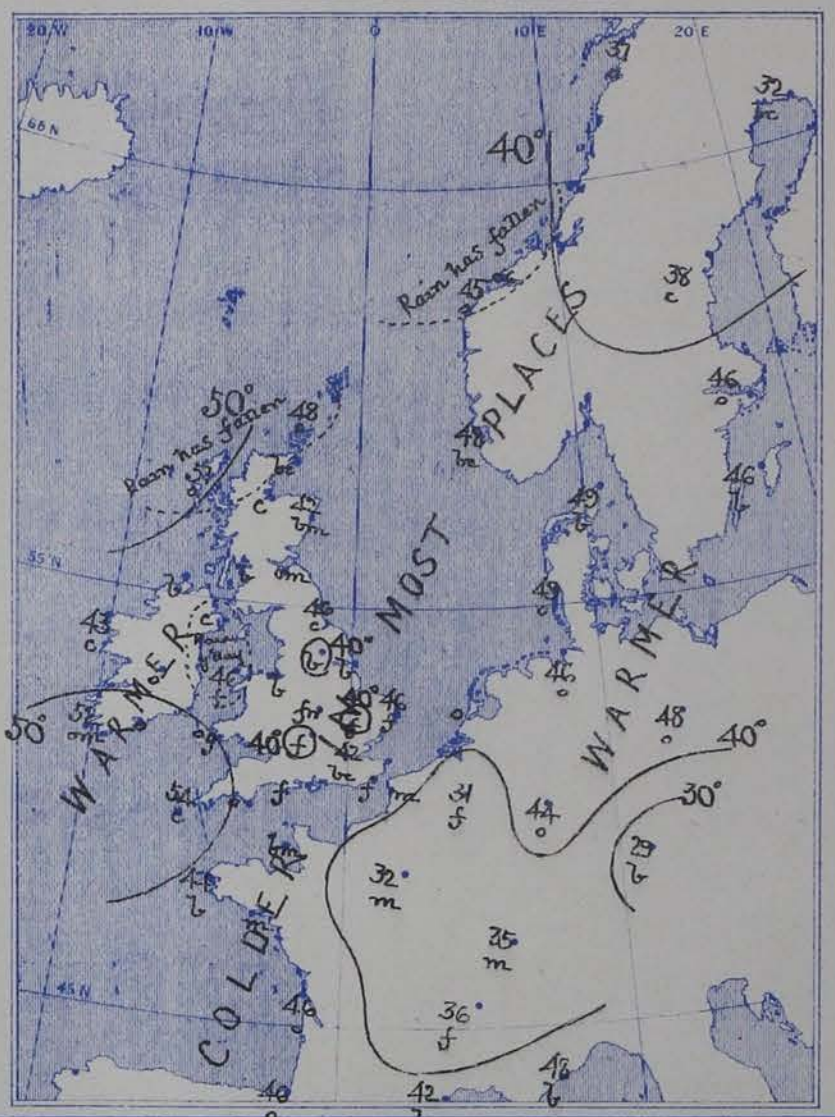


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and upwards over Central Ireland and also over Belgium, and the western and southern parts of Germany; 30·3 ins. and upwards in an anticyclone covering the whole of Western Europe

Lowest, 29·4 ins. and less, in a depression over Lapland

Gradients slight in our Islands and France, but rather steep over Scandinavia

Barometer falling slightly in most places, but rising a little in the northeast of Scotland and also in the west of Norway.

TEMPERATURE

Highest (1) 54° at Scilly, and 52° at Valencia (Ireland) and Rockeisbint; (2) 53° at Wick, and 52° at Nairn; (3) 53° at Lisbon.

Lowest, (1) 29° at Krumick. 31° at Brussels, and 32° at Paris; (2) 34° at Oxford and Cambridge and 36° at York (3) 33° at Haparanda and 37° at Boda.

Ground frost occurred last night over some of the more central parts of England; in London the exposed thermometer fell to 31° and at Oxford to 30°

WIND

Light from the E.by.S. or NE.by.E. over the Channel and France, and from the SE.by.E. in the south of Ireland.

Light from the SW.by.S. over all the more northern parts of the United Kingdom; moderate to strong from the W.by.S. or NW.by.W. in Scandinavia and Denmark, with a gale at Christiansund.

WEATHER

Fair over Western Europe as a whole, but cloudy and misty in places, and foggy over the Central and southeastern parts of England, as well as at Brussels and Lyons.

Slight rain fell yesterday at some of our own northwestern and extreme northern stations, and a larger quantity at Christiansund but over our area as a whole the weather remained very dry.

SEA

Slight or smooth generally, but rough at Christiansund and rather rough at Lemburgh Head

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 23rd Nov. 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W.by.N. winds, freshening; dull, rain locally.
1	SCOTLAND EAST	SW.by.S. and W.by.N. winds, light or mod.; fair generally, but misty or foggy in places.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable or NE.by.E. airs; fair generally; but misty or foggy in places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S.by.W. and SW.by.S. winds, light; fine generally, but local fogs.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E.by.S. and SE.by.E. winds, light; fair generally, but misty or foggy in places.
9	IRELAND NORTH	S.by.W. and SW.by.S. winds, moderate; fair generally.
10	IRELAND SOUTH	Same as No 8
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·44	60	49	W	4	0	3
Sumburgh Head							
Stornoway	30·37	54	53	WSW	3	0	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·56	50	49	S	3	0	2
Belmullet	30·59	51	50	SSW	1	0	*
Holyhead							
Valencia							
Scilly							
Jersey	30·65	51	49	E	3	b	3
Hurst Castle ...							
Dungeness ...	30·70	54	50	ESE	1	b	1
North Foreland	30·73	54	50	Z	0	b	0
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·54	55	50	E	3	bc	*

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 14TH TO THE 20TH NOV: 1897.

At the commencement of the week the low pressure system hitherto noticed off our western and northwestern coasts moved eastwards and northeastwards across the Kingdom, the wind in its rear shifting to the N.ward and blowing with the force of a gale in the northern and western parts of the Kingdom generally, with snow or sleet in places. Over England temperature was at first high for the time of year, but with the spread of the N. wind the thermometer fell briskly, the maximum readings of the 15th being below 45° in most districts.

A depression of increasing depth was now formed over the south of Norway, whence it moved eastwards across Scandinavia and northern Russia, the wind in those regions increasing to a hard gale from the NW.ward with considerable falls of snow. In our Islands the weather was influenced temporarily by an anticyclone which advanced from the northwestward, but this soon passed away to the Continent, while a large depression skirted our northwestern and northern coasts in a northeasterly direction, the progress of the disturbance being attended by S³ and SW³ winds (strong to a gale in the northwest) and heavy falls of rain in most places.

As the depression travelled away a new anticyclone spread over our Islands from the Atlantic, and by the close of the week this had embraced the greater part of Western Europe, the wind being light in force and mostly from the W.ward, with fair weather in many districts, but with fog or mist locally. The depression in the north ultimately passed eastwards across Scandinavia, and like its predecessor increased considerably in depth, hard W³ to NW³ gales were again experienced over northern Europe on the 19th or 20th with further heavy falls of snow or rain.

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 23rd November, 1897.

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

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		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29·48	23	W	4	b	29·27	− ·06	22	21	− 11	N	2	o	≡	b	≡	37	21	−
	Hernösand ...	29·67	35	Z	o	o	29·37	− ·41	35	33	− 3	W	6	o	≡	o	≡	50	32	0·04
	Stockholm ...	29·92	43	Z	o	c	29·58	− ·43	36	35	− 10	W	6	o	≡	c	≡	48	36	0·04
	Wisby	30·07	45	WNW	4	o	29·63	− ·50	47	44	+ 1	WNW	6	o	≡	o	≡	47	34	−
	Karlstad ...	29·96	46	WSW	4	c	29·73	− ·37	42	34	− 6	NW	6	bc	≡	c	≡	≡	≡	−
	Bodö	29·50	28	N	4	bc	29·60	+ ·04	32	32	− 5	N	5	c	2	bc	≡	37	27	−
	Christiansund ...	29·72	43	WNW	10	r	29·77	− ·33	38	34	− 7	NW	9	s	7	r	≡	45	32	0·59
	Skudesnaes ...	30·19	51	W	8	o	30·15	− ·23	40	36	− 8	NW	7	o	4	o	≡	52	39	≡
	Færder (Christiania Fjord)	30·02	48	WSW	6	b	29·86	− ·31	46	38	− 3	NW	6	o	4	b	≡	50	46	−
	Skagen (The Scaw)	30·18	49	W	8	o	29·90	− ·41	48	46	− 1	NW	7	c	3	o	≡	50	45	−
	Fanö	30·43	49	W	4	o	30·23	− ·31	48	46	− 1	W	6	bc	≡	o	≡	50	48	−
British Islands.	Sumburgh Head	30·11	51	W	3	r	30·34	+ ·04	35	32	− 13	N	4	o	5	o,r	≡	51	34	0·32
	Stornoway ...	30·32	52	WSW	4	o	30·38	− ·01	47	45	− 4	ESE	3	o	3	o	0·2	53	44	0·10
	Wick	30·30	52	SW	5	o	30·41	+ ·02	39	38	− 14	NNE	3	o	2	o,r	≡	54	39	0·26
	Nairn	30·39	51	W	2	c	30·39	− ·07	46	46	− 6	NE	2	o	1	c	≡	56	44	−
	Aberdeen ...	30·41	48	SW	2	b	30·39	− ·11	45	44	+ 3	NE	3	og	3	b	4·1	54	42	−
	Leith	30·50	49	W	3	o	30·42	− ·14	49	47	− 1	WSW	3	cw	≡	o	≡	53	45	−
	Shields	30·53	50	W	1	m	30·45	− ·16	44	43	− 2	WSW	3	c	2	bm,m	≡	53	41	−
	Spurn Head ...	30·56	44	WSW	2	b	30·46	− ·18	44	43	− 1	WNW	3	b	2	b,m	≡	51	41	−
	York	30·57	48	SSE	1	bf	30·48	− ·18	35	35	− 1	Z	o	bf	≡	bf	0·0	48	33	−
	Loughborough ...	30·62	40	SW	1	f	30·53	− ·16	32	32	− 10	Z	o	ofw	≡	of	≡	43	31	−
	Ardrossan ...	30·54	50	SSW	3	o	30·45	− ·15	51	51	+ 2	WSW	2	op	2	om	≡	51	40	−
	Malin Head ...	30·50	47	SSW	3	bc	30·48	− ·08	50	49	+ 4	W	2	om	1	bc	≡	51	45	−
	Belmullet ...	30·54	51	SSW	1	o	30·51	− ·08	50	48	+ 7	WSW	1	o	≡	o	≡	51	42	−
	Donaghadee ...	30·57	47	SSW	3	o	30·50	− ·13	40	40	− 3	W	3	bc	1	o	≡	48	37	−
	Liverpool (Bidston)	30·59	47	Z	o	b	30·51	− ·16	45	43	+ 3	SW	1	b	?	bm	≡	50	42	−
	Holyhead ...	30·58	52	SSW	1	ogm	? 30·50	− ·15	45	44	− 1	Z	o	bcf	o	omg.	≡	52	44	−
	Parsonstown ...	30·56	45	S	1	b	30·52	− ·10	36	36	− 10	Z	o	f	≡	b	0·8	52	36	−
	Valencia ...	30·55	52	S	1	o	30·48	− ·12	51	48	− 1	SSE	1	omg	2	b,o	5·1	55	50	−
	Roche's Point ...	30·57	52	SSE	1	o	30·50	− ·14	48	47	− 4	E	2	om	3	o	≡	63	47	−
	Pembroke (St. Ann's Hd.)	30·59	47	ESE	2	b	30·51	− ·14	43	42	− 7	E	2	f	2	b	3·3	51	42	−
	Scilly	30·51	54	ENE	3	om	30·42	− ·16	52	49	− 2	N	3	c	o	c,om	0·2	57	48	−
	Prawle Point ...	30·55	49	ENE	3	c	30·47	− ·15	47	46	− 4	NNE	4	o	1	c	≡	51	45	−
	Jersey (St. Aubin's)	30·53	49	E	2	bm	30·48	− ·13	48	47	+ 1	SE	1	om	1	bm,bw	≡	54	41	−
	Hurst Castle ...	30·57	48	ENE	2	om	30·49	− ·17	46	45	+ 1	NE	2	om	2	om	≡	48	45	−
	Dungeness ...	30·57	50	E	3	bc	30·49	− ·18	39	39	− 8	N	2	f	1	bc	≡	53	35	−
	North Foreland	30·61	48	E	2	bc	30·51	− ·19	45	44	− 4	NNE	1	o	1	bc	≡	50	42	0·01
	London (Brixton) ...	30·61	46	E	1	om	30·51	− ·18	42	42	0	E	1	fg	≡	of,o	0·0	50	42	−
	Oxford	30·61	37	Z	o	f	30·53	− ·18	39	38	+ 5	N	1	f	≡	c,f	≡	53	34	−
	Cambridge ...	30·62	43	Z	o	f	30·52	− ·19	36	36	+ 2	SW	1	f	≡	b,f	5·3	55	33	−
	Yarmouth ...	30·61	47	WSW	1	bf	30·48	− ·20	40	39	− 6	W	2	f	2	b,bf	≡	50	38	0·02
Germany & Holland.	Cuxhaven ...	30·57	46	WSW	2	o	30·36	− ·28	45	45	− 1	WSW	3	o	≡	o	≡	48	43	−
	Berlin	30·58	47	W	2	o	30·38	− ·24	45	43	− 3	W	3	o	≡	o	≡	48	43	−
	Wiesbaden ...	*	*	*	*	*	30·54	− ·29	32	32	− 12	E	2	f	≡	≡	≡	46	30	−
	Munich	30·67	35	SE	2	b	30·53	− ·21	28	28	− 1	E	1	b	≡	b	≡	45	27	−
	The Helder ...	30·59	48	SW	2	m	30·48	− ·20	47	46	− 2	W	2	bc	1	m	≡	50	46	−
Belgium.	Brussels ...	*	*	*	*	*									*		≡			
	Cape Gris Nez ...	30·58	42	ESE	1	m	30·49	− ·16	42	42	0	E	1	f	1	m	≡	52	30	−
	Paris	30·59	41	NE	2	b	30·52	− ·14	28	28	− 4	Z	o	f	≡	b	≡	51	27	−
	Brest	30·48	51	Z	o	o	30·42	− ·12	49	48	+ 5	SE	1	o	1	o	≡	54	37	−
	Lorient	30·52	44	E	3	m	30·42	− ·14	46	46	+ 2	E	3	m	2	m	≡	54	43	−
France &	Rochefort ...	30·50	45	S	1	o	30·47	− ·08	41	41	− 5	ESE	2	f	≡	o	≡	48	39	−
	Belfort	30·63	37	ENE	5	b	30·52	− ·15	33	33	− 2	ESE	2	m	≡	b	≡	47	33	−
	Lyons	30·62	39	ENE	1	f	30·58	− ·10	37	37	+ 1	SE	1	f	≡	f	≡	43	36	−
	Nice	30·54	52	Z	o	b	30·50	− ·10	47	43	− 1	Z	o	b	1	b	≡	64	46	−
	Perpignan ...	30·54	49	Z	o	b	30·52	− ·05	46	46	+ 4	SW	2	o	≡	b	≡	60	42	−
	Biarritz ...	30·45	55	E	4	b	30·45	+ ·01	52	51	+ 6	SSE	2	o	2	b	≡	57	46	−
Peninsula.	Corunna ...																≡			
	Lisbon	30·44	59	NE	2	b	30·48	+ ·05	53	51	0	NNE	4	b	≡	b	≡	66	52	−
	Azores (P. Delgada)	30·07	64	SSE	5	o.	30·13	+ ·04	64	63	+ 1	Z	o	m	3	o	≡	66	63	−

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 3·4 hrs;

WEATHER CHARTS

FOR Tuesday, 23rd November, 1897.

BAROMETER, WIND AND SEA.

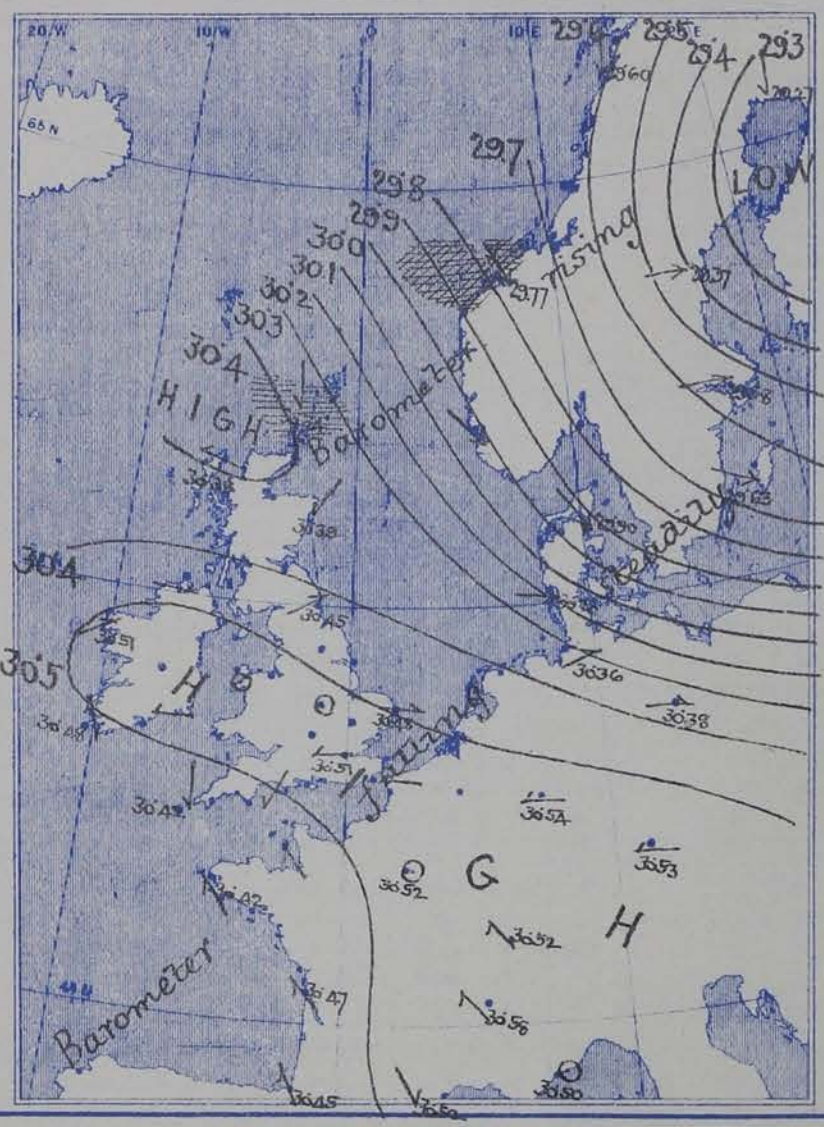
BAROMETER—*Isobars are drawn for each tenth of an inch.*

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* ▩

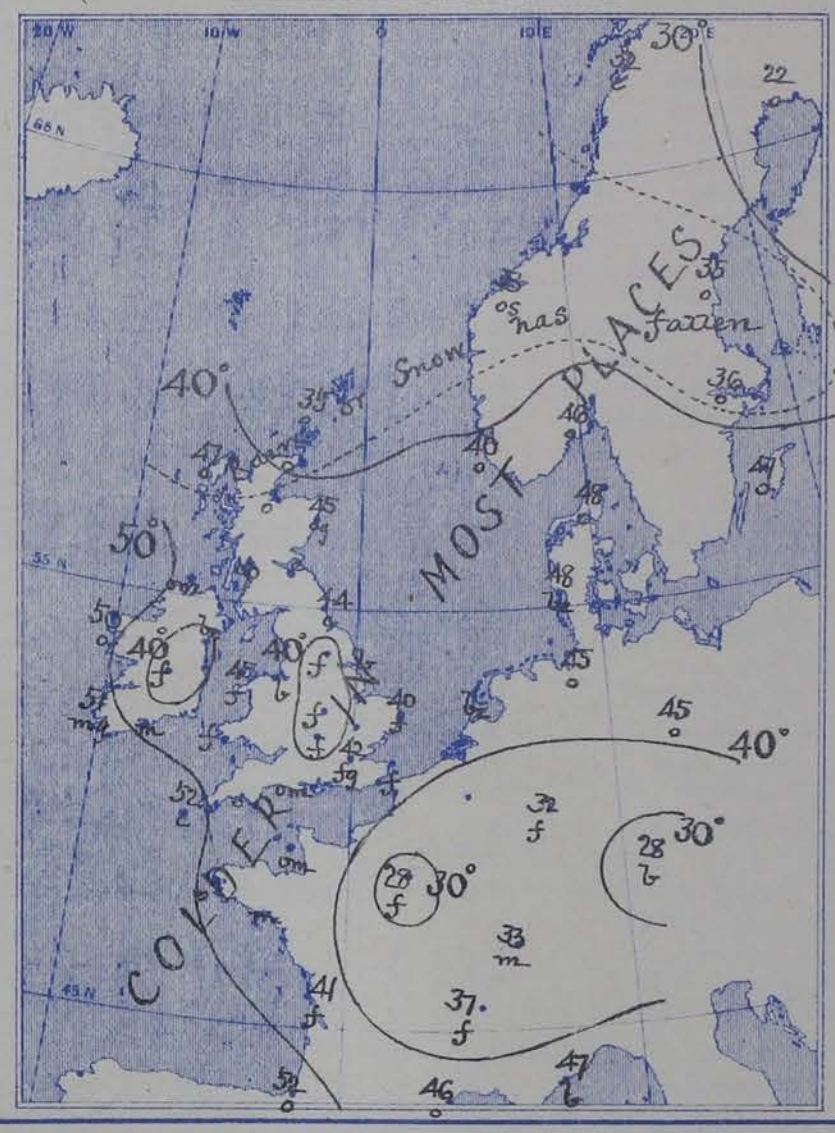


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885. 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and more (1) over S. Germany, the E.ⁿ half of France and the greater part of England and Ireland, (2) over the extreme N. of Scotland.
Lowest below 29.2 ins. over Finland and the N.ʳⁿ parts of the Gulf of Bothnia, and apparently below 30 ins. over the Bay of Biscay.
Gradients slight and variable over our islands, France and the Bay of Biscay, steep for NW. winds over Scandinavia and the Baltic. Barometer beginning to rise rather decidedly over the N. of Scotland and the W. of Lapland, but was falling a little on our SW.ᵗʰ and S.ᵗʰ coasts.

TEMPERATURE

Highest 52° at Biarritz and Scilly, 51° to 50° along the W. coast of Ireland and at Ardrossan.
Lowest (1) 22° at Haparanda, 32° at Bodo, 36° at Stockholm; (2) 28° at Munich and Paris, 32° at Wiesbaden; (3) 32° at Loughborough 35° at York.
The changes reported are slight and very irregular in many districts, but the general tendency is for colder weather.

WIND

Extremely light and variable over Ireland and England, E. and very light over the Channel and France, W. to NW., and strong, over Scandinavia, and becoming E. over the northern parts of Scotland.

WEATHER

Fair over the British Islands and France as a whole, but with fog in many places; dull over Norway, with snow in places.
Rain has fallen at several N.ʳⁿ stations; Bright Sunshine recorded yesterday was - more than 5 hrs. at Valencia (Ireland) 4 hrs. and more at several of the S.ᵗʰ stations and at Aberdeen - none in London.

SEA

Very rough in the far north, smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new high pressure area is apparently spreading over Scotland from the N.ʷᵈ, while that over the more S.ᵗʰ regions is inclined to give way. Colder weather than we have lately experienced is likely to become general, with cold showers in places - first in the W. and N. and later on over England.

FORECASTS

For the 24 hours ending at NOON on 24TH NOV. 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NE. winds strong, squally, cold showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Variable airs followed by N. breezes, with colder weather and some showers.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	Same as No. 2.
5	ENGLAND SOUTH	Variable airs and calms, thick fogs, becoming colder.
6	SCOTLAND WEST	Wind shifting to the N.ʷᵈ, colder, some cold showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N. breezes, colder, unsettled.
9	IRELAND NORTH	Same as Nos. 6 and 7.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·37	49	48	WSW	2	o	2	Valencia	30·56	55	50	SE	2	b	4
Sumburgh Head	30·16	51	50	W	4	o	5	Scilly	30·55	56	53	E	2	c	1
Stornoway	30·35	53	51	WSW	3	o	4	Jersey	30·54	53	49	E	4	b	2
Aberdeen	30·42	54	49	SW	2	b	1	Hurst Castle ...	30·61	47	46	NE	3	om	2
Shields	30·57	52	49	SW	3	bm	2	Dungeness ...	30·62	51	49	ENE	2	bc	1
Ardrossan	30·52	50	49	SSW	3	om	2	North Foreland	30·64	48	47	E	2	c	2
Malin Head ...	30·52	50	47	SSW	3	b	1	London (Westminster)	30·63	51	48	ESE	2	o	*
Belmullet	30·55	51	49	S	1	o	*	Yarmouth ...	30·63	50	47	WSW	1	b	2
Holyhead	30·61	52	50	SSW	2	ogm	1	Rochefort ...	30·54	46	45	E	1	o	*

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

Weather in morning fair and very quiet over central and S.W. Europe, France and the British Islands – clear and bright in many places, dull or very foggy in the remainder; very changeable and unsettled over N.W. Europe, with rain in several places, snow in some, but clear sky nevertheless in many localities. Rain falling later in various parts of Scandinavia and the N. of Scotland, the largest amounts being 0.6 in. at Christiansund, and 0.3 in. at Sumburgh Hd. and Wick.

Temperature fallen considerably over Gt. Britain, France, W. and S. Germany and the S.W. half of Russia, risen over N.W. Europe and the Baltic. Morning readings highest 62° at Malta, 61° at Algiers, and above 50° in many parts of S.W. Europe, as well as on our own S.W. and extreme N.W. coasts. Lowest (1) 18° at Archangel, 21° at Moscow, 30° to 32° over the S. of Russia; (2) 24° at Hermanstadt, 29° at Munich, 31° at Brussels, 32° at Paris, (3) 34° at Oxford, 36° at York. Rising in our islands later, and touching 57° at Scilly, and 55° to 50° over the Kingdom generally.

Wind (1) very light and anticyclonic over central and W. Europe including Ireland and England (2) W. and moderate in the N. of Scotland, and W. to NW. over N.W. Europe, and blowing hard on the Norwegian coast; (3) E. and light over the Bay of Biscay and the greater part of the Mediterranean. The W. gale becoming more general over N.W. Europe later, very little change elsewhere.

Barometer Highest 30.7 ins. and more over the W. and S. of Germany, and exceeding 30.4 ins. over central, W. and S.W. Europe generally. Lowest below 29.2 ins. in a large depression over the White Sea, the gradients for W. winds being steep over the N.W. countries generally. Further disturbances approaching Scandinavia later from the W.N.W.

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 Wednesday, 24th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.81	23	N	2	b	29.69	+.42	19	18	- 8	N	2	b	#	b	#	30	19	-
	Hernösand ...	29.71	24	NW	2	b	29.82	+.45	24	23	- 11	N	4	8	#	b	#	39	23	-
	Stockholm ...	29.84	29	NW	6	b	29.78	+.20	27	25	- 9	WNW	4	o	#	b	#	45	27	-
	Wisby	29.61	36	N	10	bc	29.80	+.17	33	29	- 14	NNW	6	o	#	bc	#	47	33	-
	Karlstad ...	29.95	32	NW	6	b	29.97	+.24	26	23	- 16	NW	4	b	#	b	#	#	#	-
	Bodö	29.82	28	W	6	c	29.91	+.31	24	22	- 8	E	2	b	1	s	#	32	23	-
	Christiansund ...	30.19	31	NW	8	s	30.19	+.42	30	29	- 8	NE	7	s	6	s	#	39	27	0.20
	Skudesnaes ...	30.30	36	NNW	8	o	30.22	+.07	35	34	- 5	NNW	7	c	4	r3.o	#	40	30	#
	Færder (Christiania Fjord)	30.01	39	WNW	2	b	30.04	+.18	32	27	- 14	NW	5	b	3	b	#	46	30	-
	Skagen (The Scaw)	30.03	41	W	6	b	30.09	+.19	36	31	- 12	NNW	7	bc	3	b	#	48	36	-
	Fanö	30.25	41	NW	6	c	30.22	-.01	39	35	- 9	NNW	6	c	#	c	#	48	39	-
	Sumburgh Head	30.50	33	N	8	o	30.45	+.11	34	33	- 1	NNE	1	o	3	c.o	#	35	32	-
	Stornoway ...	30.47	41	E	4	o	30.37	-.01	43	41	- 4	SSE	3	o	3	o	0.0	47	38	-
	Wick	30.52	38	E	2	r	30.45	+.04	37	36	- 2	E	1	c	2	o	#	39	35	0.02
	Nairn	30.53	38	E	2	r	30.44	+.05	38	37	- 8	E	1	o	2	r	#	46	35	0.09
	Aberdeen ...	30.53	38	NNW	2	og	30.47	+.08	38	35	- 7	WNW	2	og	4	og	0.0	46	37	0.01
British Islands	Leith	30.48	46	NE	3	o	30.42	.00	43	42	- 6	E	2	o	#	o	#	54	41	0.04
	Shields	30.46	48	E	0	d	30.45	.00	43	42	- 1	ESE	2	o	3	b.d	#	52	42	0.03
	Spurn Head ...	30.42	47	NNW	3	b	30.41	-.05	45	43	+ 1	NE	3	ov	3	m.bw	#	49	44	0.01
	York	30.43	45	N	1	b	30.44	-.04	44	43	+ 9	NNE	1	o	#	f.b	0.9	48	35	0.02
	Loughborough ...	30.47	37	W	1	f	30.45	-.06	38	38	+ 6	WNW	1	ofgw	#	fd gf	#	39	32	0.01
	Ardrossan ...	30.45	52	W	2	p	30.40	-.05	42	42	- 9	NNE	3	of	2	c.p	#	53	40	0.01
	Malin Head ...	30.46	51	WSW	2	cm	30.35	-.13	49	47	- 1	SSE	3	om	1	o.cm	#	51	47	-
	Belmullet ...	30.46	45	SSE	1	o	30.32	-.19	47	48	- 3	S	2	o	#	o	#	50	43	-
	Donaghadee ...	30.48	44	SSW	1	bc	30.39	-.01	49	49	+ 9	SE	4	o	2	bc	#	51	35	0.03
	Liverpool (Bidston)	30.48	45	NNW	1	b	30.42	-.09	38	37	- 7	ESE	1	f	?	m.b.f	#	50	35	-
	Holyhead ...	30.47	48	W	0	b	30.40	-.10	41	40	- 4	E	1	fw	0	b	#	52	40	-
	Parsonstown ...	30.47	45	W	0	o	30.36	-.16	42	41	+ 6	W	0	o	#	c.o	1.8	47	35	-
	Valencia ...	30.44	53	W	0	o	30.31	-.17	50	47	- 1	E	2	ogm	2	o	0.0	53	48	-
	Roche's Point ..	30.45	48	E	3	o	30.37	-.13	48	47	0	N	1	om	2	o	#	50	48	-
	Pembroke (St. Ann's Hd.)	30.45	43	ESE	3	o	30.40	-.11	43	43	0	ESE	3	ogm	2	o	0.0	44	40	-
	Scilly	30.40	53	NE	1	om	30.34	-.08	52	48	0	S	1	om	1	om	0.0	58	47	-
	Prawle Point ...	30.41	50	E	3	o	30.37	-.10	46	46	- 1	NNE	2	og	1	og.rm	#	50	45	0.02
	Jersey (St. Aubin's)	30.43	47	SSE	2	om	30.37	-.11	46	45	- 2	ESE	3	om	3	c.om	#	49	44	-
	Hurst Castle ...	30.44	46	NE	2	om	30.39	-.10	42	41	- 4	NE	3	om	2	om	#	47	41	-
	Dungeness ...	30.45	41	NNW	1	m	30.39	-.10	44	43	+ 5	N	2	o	1	f.m.f	#	46	39	-
	North Foreland	30.47	43	NNE	1	c	30.42	-.09	43	42	- 2	W	2	fw	2	d.c	#	46	42	-
	London (Brixton) ...	30.47	42	W	0	fg	30.43	-.08	39	39	- 8	W	0	fg	#	ofg	0.0	43	38	-
	Oxford	30.49	38	W	1	f	30.45	-.08	35	35	- 4	W	0	of	#	fdp	#	39	33	0.01
	Cambridge ...	30.47	36	SW	1	f	30.43	-.09	38	38	+ 2	W	0	f	#	f	0.0	51	32	0.01
	Yarmouth ...	30.40	39	WSW	2	f	30.39	-.09	45	44	+ 5	NNE	3	c	3	f	#	45	38	0.01
Germany & Holland	Cuxhaven ...	30.26	45	W	4	o	30.24	-.12	41	41	- 4	N	5	o	#	o	#	48	39	-
	Berlin	30.17	46	NNW	4	r	30.17	-.21	36	33	- 9	NNW	3	b	#	r	#	46	36	0.04
	Wiesbaden ...	*	*	*	*	*	30.33	-.21	36	35	+ 4	E	1	o	#	*	#	37	30	-
	Munich... ..	30.41	36	SW	4	b	30.30	-.23	30	30	+ 2	W	2	b	#	b	#	43	28	-
	The Helder ...	30.38	49	NNW	2	b	30.38	-.10	44	41	- 3	NNE	2	bc	2	b	#	48	44	-
Belgium.	Brussels ...	*	*	*	*	*	30.41		37	37		SW	1	f	#	f	#	43	28	-
	Cape Gris Nez...	30.42	45	E	1	f	30.38	-.11	45	44	+ 3	S	1	f	1	f	#	46	41	-
	Paris	30.46	35	S	2	f	30.40	-.12	32	32	+ 4	NW	1	f	#	f	#	44	28	-
	Brest	30.39	54	W	1	of	30.35	-.07	54	50	+ 5	WNW	3	c	2	of	#	54	45	-
	Lorient... ...	30.43	48	E	1	m	30.36	-.06	50	50	+ 4	W	0	o	2	m	#	54	43	-
France &	Rochefort ...	30.39	45	NE	3	m	30.37	-.10	46	45	+ 5	ENE	4	o	#	m	#	48	39	-
	Belfort	30.44	40	W	0	m	30.38	-.14	26	26	- 7	W	3	f	#	m	#	50	25	-
	Lyons	30.49	38	N	1	f	30.41	-.17	32	32	- 5	NNW	1	f	#	f	#	44	32	-
	Nice	30.38	50	W	0	b	30.25	-.25	44	42	- 3	E	1	b	2	b	#	57	43	-
	Perpignan ...	30.42	49	SW	1	b	30.30	-.22	56	48	+ 10	NW	3	b	#	b	#	59	41	-
	Biarritz ... †	30.43	52	ENE	2	o	30.36	-.09	48	46	- 4	NNW	2	o	2	o	#	54	46	-
Peninsula	Corunna ...																#			
	Lisbon	30.45	59	NNE	4	bc	30.43	-.05	58	51	o	NNE	3	o	#	bc	#	63	55	-
	Azores (P. Delgada)	30.34	62	NNE	4	bc	30.43	+.30	61	59	- 3	NE	4	bc	3	bc	#	70	59	-

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 1.9 hrs;

WEATHER CHARTS

FOR Wednesday, 24th November, 1897.

BAROMETER, WIND AND SEA.

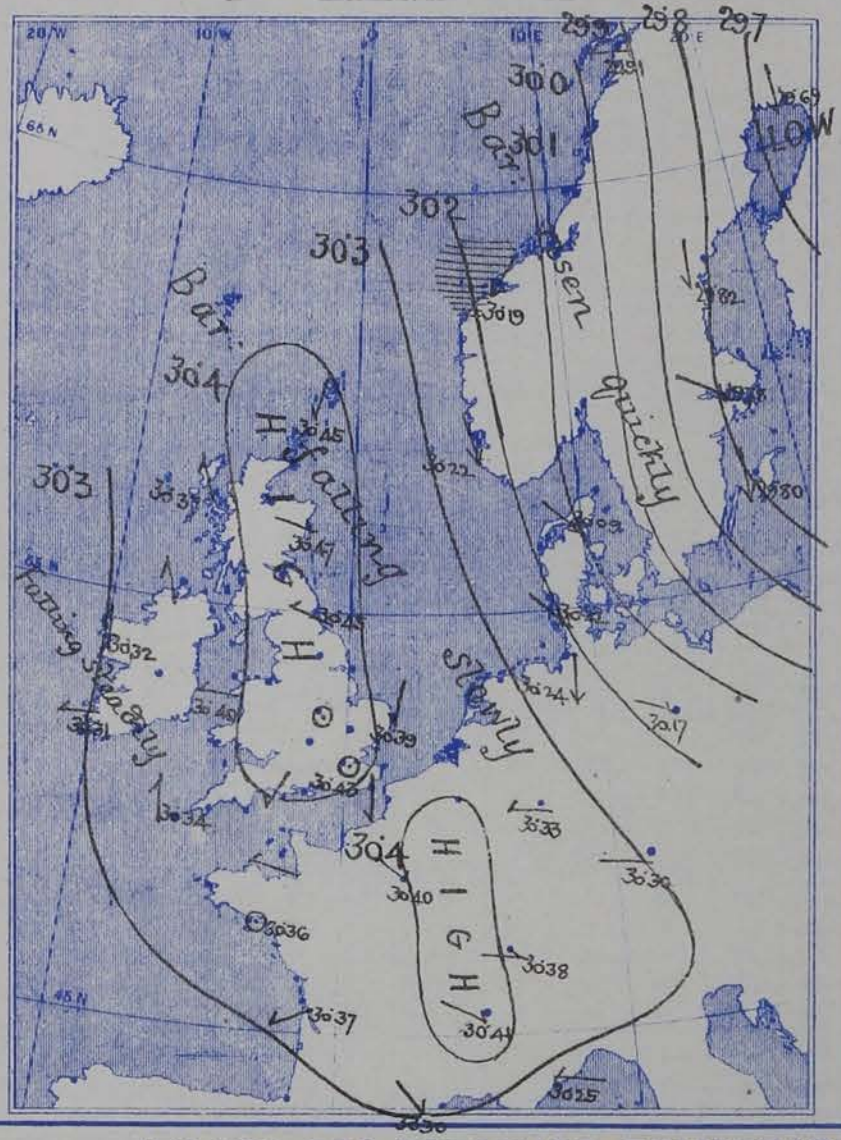
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

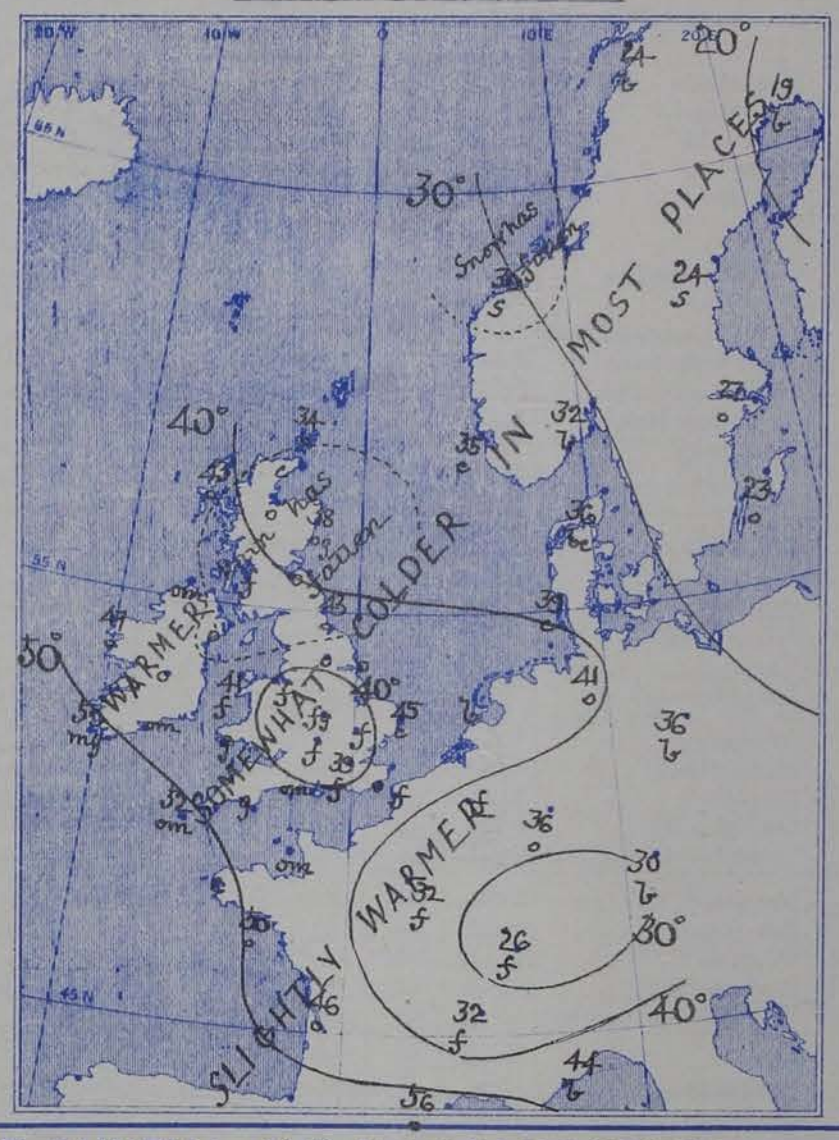


TEMPERATURE & WEATHER.

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 NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years	Minimum.	Years	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 more to 30·3 ins: in a complex anticyclone covering the whole of our Islands and France and the greater part of the North Sea

Lowest, Below 29·8 ins: over the Gulfs of Bothnia, Finland and Riga.

Gradient extremely slight over the United Kingdom and France.

Barometer falling rather decidedly on our extreme western coasts, rising quickly over Scandinavia and the Baltic.

TEMPERATURE

Highest, 56° at Perpignan, 54° at Brest, 50° at Valencia (Ireland), 49° at Malinhead, 46° at Jersey.

Lowest, (1) 19° at Haparanda, 24° at Hernösand, 27° at Stockholm; (2) 26° at Belfort, 30° at Munich, 32° at Lyons and Paris.

It has fallen at most of our stations, but is beginning to rise again over Ireland and some parts of our midland counties, where the readings yesterday morning were very low.

WIND

(1) NW. strong to a gale on the eastern shores of the North Sea, (2) calm over Great Britain and France, (3) SE to S on our western coasts as a whole.

WEATHER

Again very dull and foggy over Great Britain and France, clear and bright over Germany, changeable over Scandinavia, with snow at times. In Ireland it is overcast and hazy.

Snow has fallen at Christiansund, slight rain at most of our northern and northeastern stations.

Of Bright Sunshine there was more than 5 hours at Llandudno yesterday, nearly 2 hrs at Parsonstown and Southport, but none at any of our southern stations.

SEA

Still rough in the far north (but going down) smooth or very smooth Elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer in the west points to the approach of some disturbances from the Atlantic which will probably cause a temporary spell of wind from the S.W., with milder weather, and a clearance of the fog over England. The change, however, does not seem likely to last for long.

FORECASTS

For the 24 hours ending at NOON on 25th Nov.r 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SE. winds, freshening; fair to rainy, milder.
1	SCOTLAND EAST	Calms and Variable airs, with fog, followed by E. or SE. breezes and milder finer weather.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S. or SE. winds, freshening: milder, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·30	36	33	NNW	9	ors	5
Sumburgh Head	30·44	34	32	N	4	c	5
Stornoway	30·47	41	40	E	4	o	4
Aberdeen	30·49	39	38	N	2	o q	4
Shields	30·43	52	49	WSW	3	b	2
Ardrossan	30·43	52	52	W	2	c	2
Malin Head ...	30·47	51	49	W	3	o	1
Belmullet	30·48	50	48	SSE	1	o	*
Holyhead	30·48	51	49	N	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·45	58	49	ENE	1	o	3
Scilly	30·42	56	53	ENE	1	om	1
Jersey	30·45	49	47	SSE	2	c	2
Hurst Castle ...	30·46	47	46	NE	2	om	1
Dungeness ...	30·46	42	42	N	2	f	1
North Foreland	30·47	45	44	NNE	1	o	o
London (Westminster)	30·47	46	43	E	0	o gf	*
Yarmouth ...	30·38	43	42	ENE	2	f	2
Rochefort ...	30·44	48	46	E	3	m	*

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.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 25th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.89	19	N	2	bc	29.97	+.28	11	10	-8	NNW	2	b	*	bc	*	23	11	-
	Hernösand ...	30.06	18	NNW	2	b	30.15	+.33	18	18	-6	W	0	b	*	b	*	30	16	0.04
	Stockholm ...	29.95	27	NW	2	c	30.16	+.38	18	17	-9	NNW	2	b	*	c	*	32	25	0.04
	Wisby	29.83	29	?	4	s	30.12	+.32	31	29	-2	N	6	c	*	s	*	34	27	0.24
	Karlstad ...	30.05	24	N	4	b	30.28	+.31	18	17	-8	NW	2	b	*	b	*	*	*	-
	Bodö	30.06	26	E	2	b	30.12	+.21	31	29	+7	NE	2	c	1	b	*	31	19	-
	Christiansund ...	30.24	34	N	3	r	30.32	+.13	34	31	+4	N	3	c	4	r	*	34	28	0.12
	Skudesnaes ...	30.30	28	NNE	2	b	30.36	+.14	26	25	-9	W	0	b	2	b	*	35	25	*
	Færder (Christiania Fjord)	30.17	32	SW	5	b	30.31	+.27	31	27	-1	NNW	4	b	2	b	*	32	30	-
	Skagen (The Scaw)	30.13	34	NE	6	bc	30.32	+.23	31	30	-5	NE	2	b	1	bc	*	36	30	-
	Fanö	30.21	29	NE	1	b	30.34	+.12	28	26	-11	NNE	2	b	*	b	*	39	27	-
British Islands.	Sumburgh Head	30.33	35	N	1	c	30.37	-.08	38	34	+4	S	1	c	3	c	*	39	33	-
	Stornoway ...	30.23	45	SSE	4	ou	30.24	-.13	45	45	+2	SE	3	o	3	o	0.0	45	42	-
	Wick	30.30	38	NE	3	c	30.32	-.13	42	41	+5	SE	6	ou	3	c	*	42	35	-
	Nairn	30.28	39	W	0	c	30.31	-.13	40	39	+2	W	0	o	1	c	*	40	35	0.02
	Aberdeen ...	30.34	39	SE	3	og	30.37	-.10	41	37	+3	SE	2	c	3	og.r	0.0	41	37	0.02
	Leith	30.28	44	E	2	o	30.32	-.10	42	41	-1	E	1	o	*	o	*	44	41	0.10
	Shields	30.32	43	ESE	1	o	30.33	-.12	42	41	-1	ESE	4	o	3	qp.o.r	*	45	41	0.12
	Spurn Head ...	30.32	44	SSW	1	o	30.29	-.12	43	42	-2	E	5	q	5	q.ov	*	45	43	0.09
	York	30.33	43	S	1	oq	30.32	-.12	43	42	-1	E	1	o	*	o qm	0.0	45	42	0.01
	Loughborough ...	30.35	43	SW	1	f	30.26	-.19	42	42	+4	ESE	1	oqm	*	qf.qmp	*	43	38	0.01
	Ardrossan ...	30.27	43	SW	1	f	30.29	-.11	42	42	0	NNE	1	bf	1	of	*	43	41	-
	Malin Head ...	30.16	47	SSE	5	om	30.23	-.12	47	45	-2	SE	5	oqm	2	o.om	*	49	44	0.07
	Belmullet ...	30.11	47	W	1	r	30.26	-.06	50	49	+3	N	4	o	*	r	*	50	45	0.35
	Donaghadee ...	30.25	49	S	5	r	30.25	-.14	48	47	-1	ESE	5	c	3	r	*	51	46	0.21
	Liverpool (Bidston)	30.32	44	SE	1	o	30.26	-.16	44	42	+6	ESE	1	o	?	f.om	*	45	38	-
	Holyhead ...	30.26	47	SE	1	cm	30.20	-.20	47	45	+6	E	2	cmp	1	bcm.em	*	49	40	0.04
	Parsonstown ...	30.17	46	SE	1	r	30.21	-.15	45	45	+3	W	0	o	*	o.r	0.0	48	41	0.73
	Valencia ...	30.15	52	SSE	3	omp	30.25	-.06	50	46	0	N	6	bcq	5	om omp	0.3	53	44	0.14
	Roche's Point ..	30.22	51	S	2	r	30.13	-.24	47	46	-1	NNW	5	r	3	c.r	*	52	45	0.20
	Pembroke (St. Ann's Hd.)	30.25	48	SE	4	o	30.11	-.29	48	47	+5	SE	5	oqp	5	o	1.0	51	42	0.59
	Scilly	30.26	51	WSW	1	c	30.00	-.34	49	46	-3	NNW	5	cp	2	c.p	4.3	57	46	0.13
	Prawle Point ...	30.30	47	ENE	2	o	30.07	-.30	47	45	+1	E	5	o	4	o.op	*	49	45	0.16
	Jersey (St. Aubin's)	30.31	47	ESE	3	ogm	30.11	-.26	47	45	+1	ESE	5	om	3	e.gm	*	48	44	-
	Hurst Castle ...	30.31	47	E	2	o	30.18	-.21	48	46	+6	ESE	3	o	2	om.ogm	*	48	41	0.01
	Dungeness ...	30.33	45	NNE	2	o	30.23	-.16	46	45	+2	S	2	op	2	o	*	48	43	0.10
	North Foreland	30.33	48	WNW	2	r	30.23	-.19	47	46	+4	ESE	2	o	2	o.r	*	48	43	0.12
	London (Brixton) ...	30.34	44	SE	1	om	30.23	-.20	44	43	+5	E	1	ogm	*	ogf	0.0	44	38	-
	Oxford	30.32	42	E	1	o	30.23	-.22	44	43	+9	ENE	1	ogf	*	ogf	*	44	35	-
	Cambridge ...	30.35	42	W	0	f	30.27	-.16	42	42	+4	SE	1	om	*	f	0.0	43	37	0.03
	Yarmouth ...	30.32	44	NW	1	c	30.26	-.13	43	41	-2	ENE	4	cv	4	v.c	*	46	40	0.02
Germany & Holland.	Cuxhaven ...	30.17	38	NNW	4	o	30.29	+.05	33	33	-8	N	2	b	*	rhp	*	41	32	0.08
	Berlin	30.07	36	NW	4	o	30.18	+.01	26	25	-10	NW	4	b	*	o	*	46	23	0.04
	Wiesbaden ...	*	*	*	*	*	30.24	-.09	35	33	-1	NE	2	o	*	*	*	43	34	-
	Munich	30.25	35	W	3	r	30.20	-.10	32	30	+2	NW	4	o	*	r	*	36	30	0.08
	The Helder ...	30.30	43	NNE	3	c	30.30	-.08	39	37	-5	E	1	c	1	c	*	45	39	-
France & Belgium.	Brussels ...	*	*	*	*	*	30.29	-.12	38	37	+1	NE	1	o	*	o	*	44	37	-
	Cape Gris Nez ...																*			
	Paris	30.37	35	SE	2	m	30.24	-.16	34	34	+2	ESE	1	m	*	m	*	35	32	-
	Brest	30.27	50	NW	2	o	30.00	-.35	51	51	-3	SE	4	r	4	o	*	54	45	0.08
	Lorient	30.28	50	NW	1	o	30.06	-.30	46	46	-4	E	2	m	2	o	*	55	43	-
	Rochefort ...	30.28	52	E	2	o	30.06	-.31	50	50	+4	NNE	3	o	*	o	*	54	48	0.12
	Belfort	30.34	29	W	1	f	30.23	-.15	32	32	+6	W	0	f	*	f	*	32	26	-
	Lyons	30.36	37	NNE	1	f	30.24	-.17	34	34	+2	E	1	f	*	f	*	39	32	-
	Nice	30.12	51	W	0	o	30.01	-.24	42	39	-2	E	1	o	1	o	*	55	41	-
	Perpignan ...	30.27	53	W	4	b	30.14	-.16	48	44	-8	NW	3	o	*	b	*	60	44	-
	Biarritz ...	30.32	52	E	2	b	30.13	-.23	52	48	+4	S	3	o	2	b	*	54	46	-
Peninsula.	Corunna ...																*			
	Lisbon	30.36	58	NNW	3	b	30.31	-.12	56	54	+3	N	3	b	*	b	*	64	53	-
	Azores (P. Delgada)	30.52	60	NE	3	b	30.53	+.10	60	58	-1	NE	4	b	3	b	*	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 0.0 hrs;

WEATHER CHARTS

FOR Thursday, 25th November, 1897.

BAROMETER, WIND AND SEA.

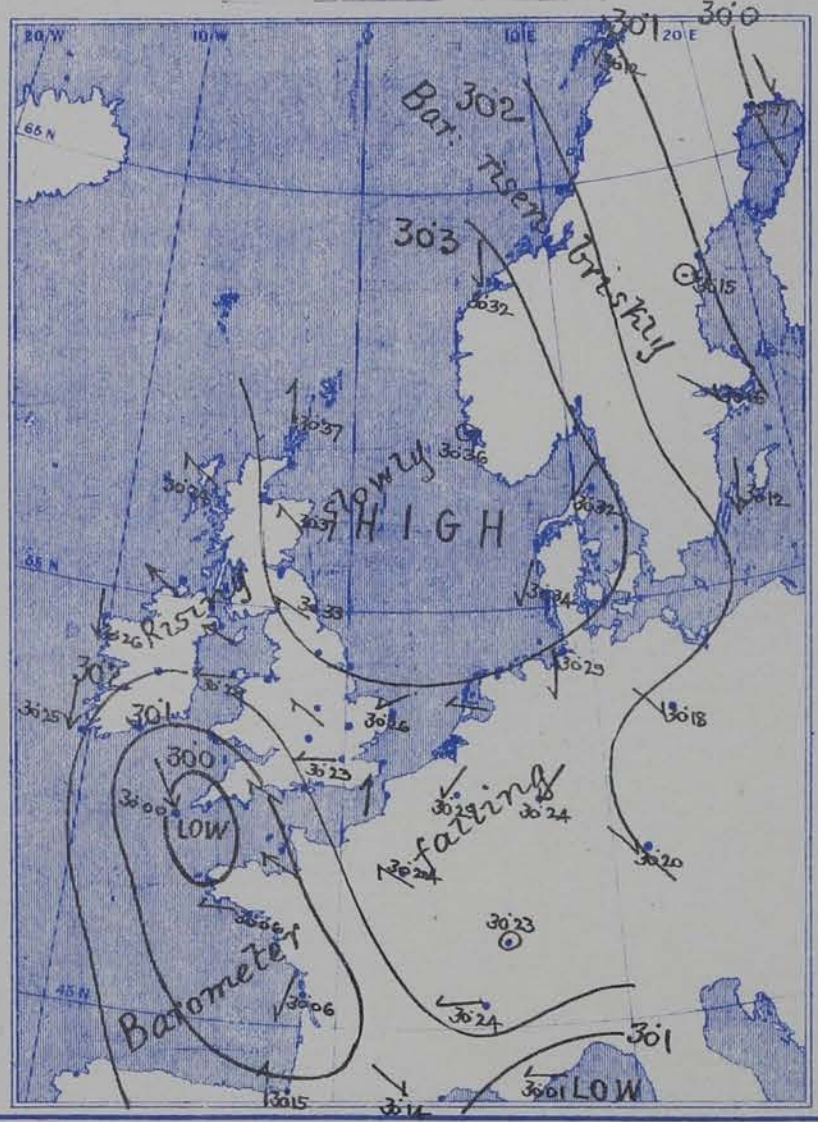
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▩

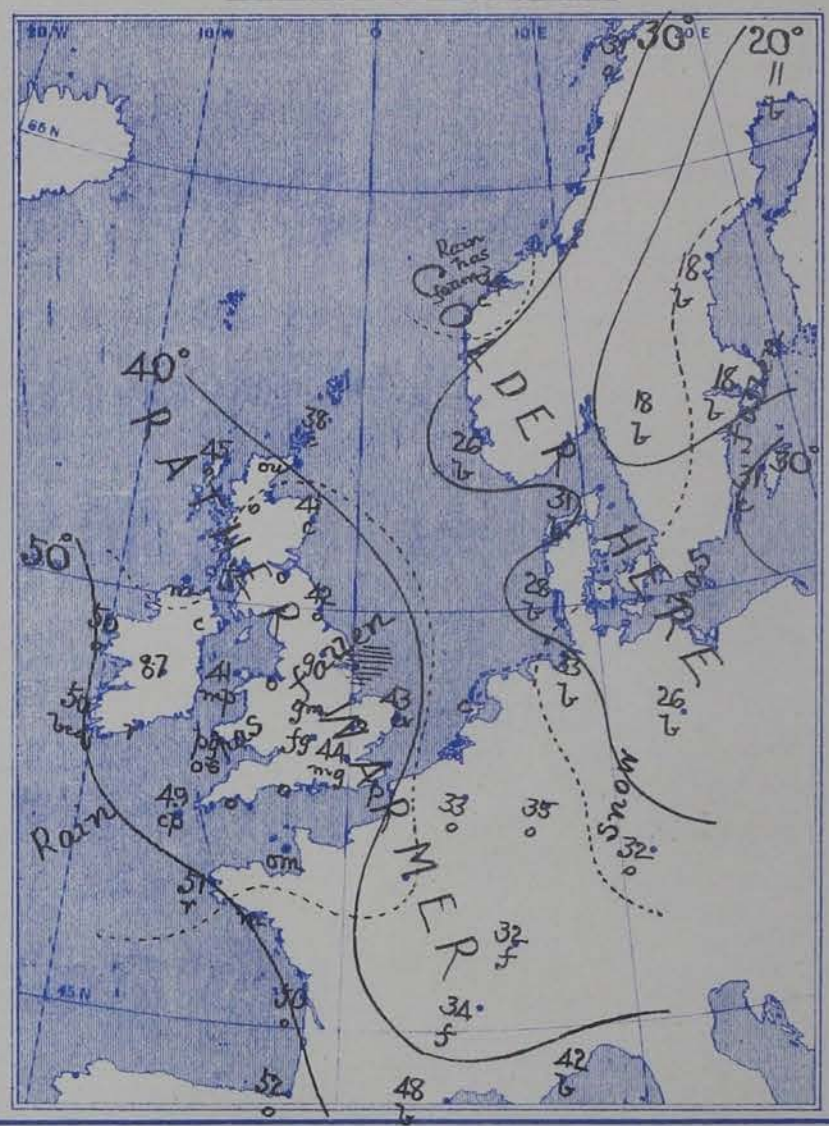


TEMPERATURE & WEATHER.

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 NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29.743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29 854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	52	1881	29	1880	3·96	—	—
Liverpool	29 862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4 04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29 910	42·5	41 1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29.879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* 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 an anticyclone lying over Norway, Denmark, the North Sea, and the eastern parts of Great Britain, and also in another system lying off the Portuguese coast.

Lowest, 30·0 ins: and less, in a depression lying at the mouth of the English Channel, and also in another area lying over Lapland.

Gradients slight generally, but moderate over our own extreme southwest coasts.

Barometer falling in France and the southwest of England, but rising elsewhere.

TEMPERATURE

Highest, 56° at Lisbon, 52° at Biarritz, 51° at Brest, and 50° at Belmullet, Valencia (Ireland) and Rochefort.

Lowest, 11° at Haparanda, 18° at Hernösand, Stockholm and Karlstad, and 26° at Skudesnaes and Berlin; lowest in our Islands 38° at Lerwick Hd.

The maxima registered yesterday were below 45° in many parts of Great Britain; in Ireland, however, the thermometer rose slightly above 50° and at Lilly it reached 57°.

WIND

Light to fresh from the E. or SE. over the greater part of our Islands, but from the N. on our extreme west and southwest coasts.

Variable in France, light from the N. in Scandinavia and Denmark, and from the NW. in Germany.

WEATHER

Cloudy or dull over Western Europe as a whole, with mist or fog in places, and with showers at several of our own western and southern stations.

Fine in Denmark, North Germany, and the south of Norway, as well as in the extreme south of France.

Since yesterday morning rain has fallen in many parts of our Islands and their immediate neighbourhood, the largest amounts being 0·7 inch at Carnsore Point and 0·6 inch at Pembroke.

SEA

Slight or smooth generally, but rather rough at Valencia (Ireland) and Pembroke, as well as at Spurn Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression at the mouth of the Channel will probably move away to the southward or southeastward. There are some indications in the west of the approach of another anticyclone from the Atlantic, so that the clearance in the weather over England is likely to prove merely temporary.

FORECASTS

For the 24 hours ending at NOON on 26th Nov.r 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SE. winds, light or moderate; cloudy, mist or fog locally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E. winds, moderate; cloudy, misty.
3	ENGLAND EAST	E. winds, freshening; cloudy, misty, some rain.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	E. winds, light or moderate; fair generally, but some mist or fog.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E. to N. winds, strong in places; some rain at first, improving later.
9	IRELAND NORTH	N. winds, fresh; cloudy at first, with local showers, then fair.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·30	53	30	NNE	4	bc	3
Sumburgh Head	30·35	36	33	N	1	c	3
Stornoway	30·30	44	43	SSE	3	o	3
Aberdeen	30·39	40	37	NW	1	oq	3
Shields	30·40	43	42	ESE	2	dq	3
Ardrossan	30·31	43	43	NNE	3	of	2
Malin Head ...	30·23	49	47	SSE	3	o	1
Belmullet	30·23	50	47	S	3	r	*
Holyhead	30·33	48	45	S	2	bcm	1
Valencia	30·20	52	49	SSE	3	om	4
Scilly	30·30	54	49	SW	1	c	0
Jersey	30·33	47	46	SE	3	c	3
Hurst Castle ...	30·35	46	45	NE	2	om	2
Dungeness ...	30·35	48	47	NNE	2	o	1
North Foreland	30·37	47	46	N	2	o	2
London (Westminster)	30·38	45	43	2	0	ogf	*
Yarmouth ...	30·36	45	43	NNE	2	c	3
Rochefort ...	30·34	53	52	E	2	o	*

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

Weather in morning dull over Western Europe generally, with fog in all the more central parts of England and France, and also in Belgium. Fine in Italy, Austria, and the extreme south of France, as well as in the south of Norway; dull in Germany and Russia, with rain at Hague and Kiew, and snow at St Petersburg as well as at Christiansund. Rain setting in later at all our more western stations, and extending in a lesser degree to most other parts of our Islands and their immediate neighbourhood.

Temperature risen in the eastern parts of England and Ireland, as well as in the west and north of France, fallen elsewhere. Morning readings highest 63° at Tunis, 62° at Malta, and 61° at Algiers; above 50° at most of the Mediterranean and Spanish coast stations, as well as at the mouth of the English Channel. Lowest 6° at Archangel, 19° at Haparanda and Kuopio, and 24° at Bodö and Hernösand, below the freezing point over northern Europe generally as well as in the east of France. Daily maxima below 45° in many parts of Great Britain, but thermometer exceeding 50° in Ireland, and reaching 57° at Scilly. Rising to 64° at Perpignan and Lisbon.

Wind light from between N. and E. over England and the south of Ireland, but S. or SE. over our extreme northwest coasts and variable in the northeast of Scotland. Variable over France and northern Italy, N. to E. over the Spanish Peninsula. N. or NW. over northern and central Europe generally, and very strong in force in Denmark and the south of Scandinavia; W. in Austria, SW. in the south of Russia. Shifting later to the SE. in nearly all parts of our Islands, and freshening somewhat in the north of Ireland.

Barometer highest 30·4 ins. and upwards in three areas, one lying over Great Britain, another over Belgium and Central France and the third over the Spanish Peninsula; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of western and southern Europe. Lowest 29·1 ins. and less in a large depression over the northern part of Russia. Anticyclone partially giving way later, and complex but shallow depression appearing off our extreme western coasts; barometer falling 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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DAILY WEATHER REPORT

for 8 a.m. on Friday, 26th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.94	15	NW	2	b	29.58	-.39	22	22	+ 11	SE	0	f	*	b	*	22	7	
	Hernösand ...	30.15	21	SE	6	b	29.89	-.26	30	27	+ 12	SE	0	0	*	b	*	30	14	-
	Stockholm ...	30.25	19	NW	2	b	30.11	-.05	22	22	+ 4	W	2	c	*	b	*	27	16	-
	Wisby	30.25	30	NNW	6	b	30.17	+.05	32	30	+ 1	NNW	6	b	*	b	*	32	27	-
	Karlstad ...	30.33	24	NW	2	b	30.17	-.11	19	19	+ 1	W	2	bc	*	b	*	*	*	-
	Bodö	30.02	33	NW	4	o	29.60	-.52	40	39	+ 4	SW	8	r	5	o	*	40	25	0.35
	Christiansund ...	30.32	36	N	3	bc	29.88	-.44	37	32	+ 3	WSW	3	c	4	bc	*	37	34	0.04
	Skudesnaes ...	30.45	28	SE	0	b	30.16	-.20	39	38	+ 13	S	6	r	3	b	*	39	25	*
	Færder (Christiania Fjord)	30.39	32	NNW	2	b	30.22	-.09	31	28	0	W	4	0	2	b	*	34	28	-
	Skagen (The Scaw)	30.38	34	NNE	1	b	30.25	-.07	35	33	+ 4	NW	3	bc	0	b	*	35	25	-
	Fanö	30.47	31	NE	1	b	30.30	+.05	36	34	+ 8	NNW	2	c	*	b	*	36	27	0.04
	Sumburgh Head	30.32	38	S	1	bc	29.79	-.58	46	44	+ 8	WNW	3	0	4	c bc	*	46	33	0.24
	Stornoway ...	30.26	46	WSW	3	b	30.02	-.22	44	42	- 1	NW	4	0	4	o,b	0.3	47	40	0.10
	Wick	30.30	44	W	5	bc	29.95	-.37	45	44	+ 3	NW	5	0	2	bc	*	47	38	0.10
	Nairn	30.33	37	SE	0	c	30.00	-.31	47	45	+ 7	W	2	0	1	c	*	50	34	0.03
	Aberdeen ...	30.39	41	SW	2	bc	30.02	-.35	47	44	+ 6	SW	3	0q	3	o bc.rq	0.0	47	38	0.06
British Islands.	Leith	30.42	41	SE	0	m	30.13	-.19	48	46	+ 6	NSW	3	0	*	m	*	49	37	-
	Shields	30.48	44	SSE	1	0	30.26	-.07	41	40	- 1	SW	3	r	3	dp.o	*	45	37	0.01
	Spurn Head ...	30.45	44	ESE	4	c	30.38	+.09	37	36	- 6	SSW	5	0	4	r.cv	*	46	36	0.02
	York	30.44	42	NNE	1	om	30.36	+.04	38	37	- 5	S	2	om	*	om	0.0	.43	33	0.02
	Loughborough ...	30.46	40	ENE	1	c	30.45	+.22	33	33	- 9	SE	2	cmw	*	gp.c.f.o	*	43	30	0.01
	Ardrossan ...	30.42	44	NNE	1	of	30.17	-.12	49	49	+ 7	SW	5	rm	4	cf.of	*	49	42	0.12
	Malin Head ...	30.34	45	SSE	3	bm	30.17	-.06	48	46	+ 1	NNW	5	orm	3	om.bm	*	48	44	0.10
	Belmullet ...	30.37	48	NE	1	b	30.29	+.03	49	49	- 1	NNW	1	0	*	b,o	*	53	45	0.08
	Donaghadee ...	30.42	49	SE	4	o	30.27	+.02	48	48	0	SW	4	r	2	o	*	49	44	0.01
	Liverpool (Bidston)	30.46	45	E	1	o	30.38	+.12	45	42	+ 1	SSW	3	0	3	om	*	45	39	-
	Holyhead ...	30.42	45	W	0	bc	30.39	+.19	51	47	+ 4	SW	4	0g	3	bm.bcf	*	51	42	-
	Parsonstown ...	30.41	42	W	0	f	30.36	+.15	46	45	+ 1	SE	1	0d	*	o.f	0.3	48	37	-
	Valencia ...	30.42	50	W	0	o	30.41	+.16	52	49	+ 2	S	1	0	4	cg.o	0.6	52	42	0.01
	Roche's Point ...	30.42	45	NNE	2	b	30.43	+.30	49	48	+ 2	W	3	c	3	po.c	*	50	42	0.15
	Pembroke (St. Ann's Hd.)	30.43	45	E	3	b	30.46	+.35	50	47	+ 2	SSW	4	0g	4	c b	3.3	50	44	-
	Scilly	30.44	51	ENE	5	cp	30.46	+.46	50	47	+ 1	SSW	1	c	4	cp	0.4	55	45	0.01
	Prawle Point ...	30.32	48	E	6	c	30.51	+.44	43	42	- 4	NE	3	bc	2	o.p	*	48	40	0.05
	Jersey (St. Aubin's)	30.27	45	E	5	b	30.53	+.42	40	35	- 7	NE	3	b	3	c.b	*	47	38	-
	Hurst Castle ...	?30.35	47	NE	2	o	30.52	+.34	37	35	- 11	N	1	bm	1	o,mpd	*	49	34	0.01
	Dungeness ...	30.38	44	E	4	c	30.53	+.30	37	33	- 9	E	2	b	1	o g.c	*	41	34	0.01
	North Foreland	30.42	41	E	4	r	30.52	+.31	35	31	- 12	SE	2	b	2	c.r	*	48	35	0.03
	London (Brixton) ...	30.42	44	E	2	o	30.52	+.29	28	28	- 16	E	1	b	*	bm.op.b	0.0	50	28	0.02
	Oxford	30.49	40	E	2	o	30.53	+.30	33	33	- 11	S	2	of	*	o,c	*	48	32	-
	Cambridge ...	30.46	38	NE	2	b	30.53	+.26	28	28	- 14	SSE	2	b	*	b	0.0	45	26	-
	Yarmouth ...	30.39	42	ESE	5	bc	30.48	+.22	34	32	- 9	SW	3	b	3	bc	*	45	32	-
Germany & Holland.	Cuxhaven ...	30.45	32	NNE	2	b	30.47	+.18	30	30	- 3	SW	1	b	*	b	*	36	25	-
	Berlin	30.39	33	NW	4	o	30.51	+.33	24	23	- 2	WNW	2	b	*	o	*	36	23	-
	Wiesbaden ...	*	*	*	*	*	30.56	+.32	23	22	- 12	NE	2	b	*	*	*	39	23	-
	Munich	30.32	22	E	4	b	30.47	+.27	15	15	- 17	E	4	b	*	b	*	34	14	0.04
	The Helder ...	30.49	32	SE	1	b	30.53	+.23	30	28	- 9	S	1	bc	1	b	*	39	27	
Belgium.	Brussels ...	*	*	*	*	*									*		*			
	Cape Gris Nez ...	30.23	39	ESE	1	m	30.50		27	27		SE	2	b	1	m	*	48	23	-
	Paris	30.32	34	NE	2	b	30.51	+.27	22	21	- 12	NNE	3	bc	*	b	*	41	21	-
	Brest	30.17	43	NE	4	o	30.48	+.48	36	34	- 15	ENE	2	b	2	o	*	54	32	0.20
	Lorient	30.15	43	E	5	o	30.47	+.41	37	36	- 9	ENE	5	b	3	o	*	54	36	1.34
France &	Rochefort ...	29.97	47	ENE	5	o	30.31	+.25	32	31	- 18	NE	5	b	*	o	*	55	30	-
	Belfort	30.21	32	ENE	3	b	30.39	+.16	22	19	- 10	NE	5	b	*	b	*	39	21	-
	Lyons	30.18	32	N	2	o	30.32	+.08	26	24	- 8	N	3	b	*	o	*	35	25	-
	Nice	29.88	50	W	0	b	29.98	-.03	45	42	+ 3	E	2	b	2	b	*	59	41	-
	Perpignan ...	29.99	52	E	1	o	30.09	-.05	43	42	- 5	SE	1	b	*	o	*	62	42	-
	Biarritz ...	29.91	54	W	5	r	30.12	-.01	44	43	- 8	NE	4	o	3	r	*	57	45	1.50
Peninsula.	Corunna ...																*			
	Lisbon	30.09	58	NW	3	o	29.97	-.34	49	46	- 7	NNE	4	bc	*	o	*	64	48	0.04
	Azores (P. Delgada)	30.52	61	NE	1	bc	30.46	-.07	60	56	0	ENE	3	bc	3	bc	*	64	59	-

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 Friday, 26TH November, 1897.

BAROMETER, WIND AND SEA.

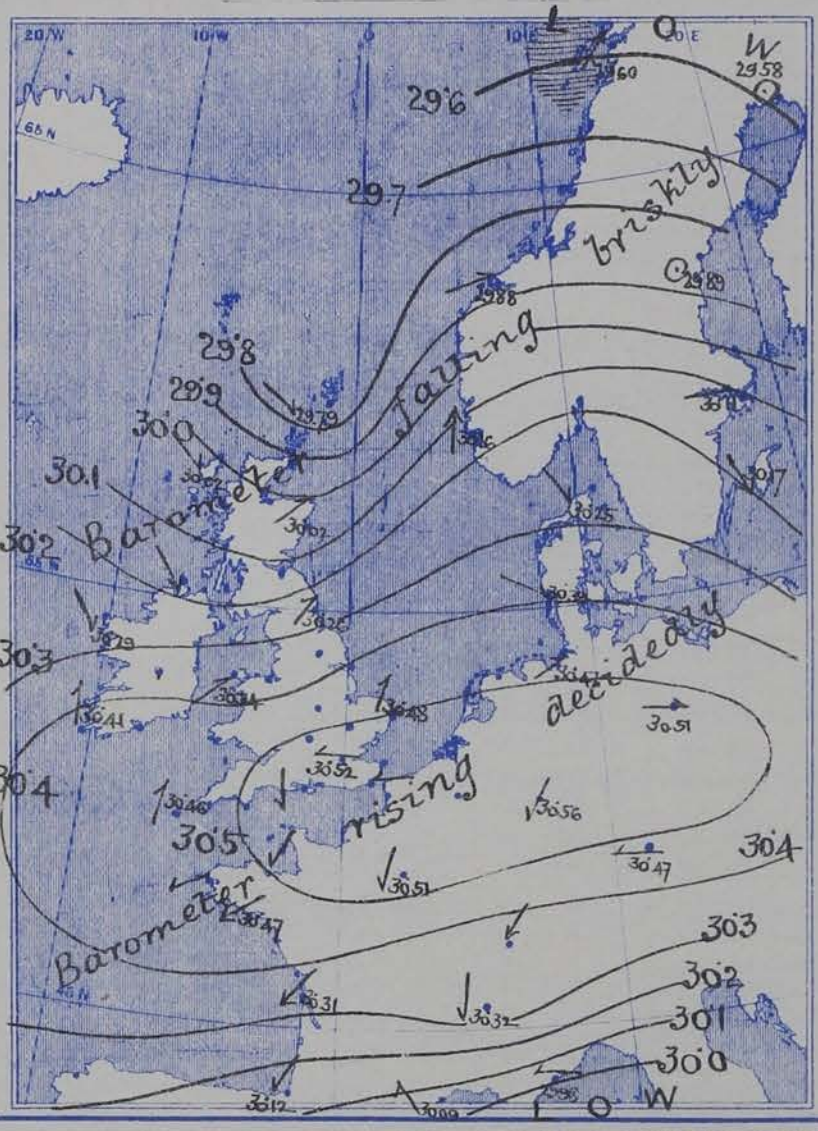
BAROMETER—Isobars are drawn for each tenth of an inch.

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* ▬

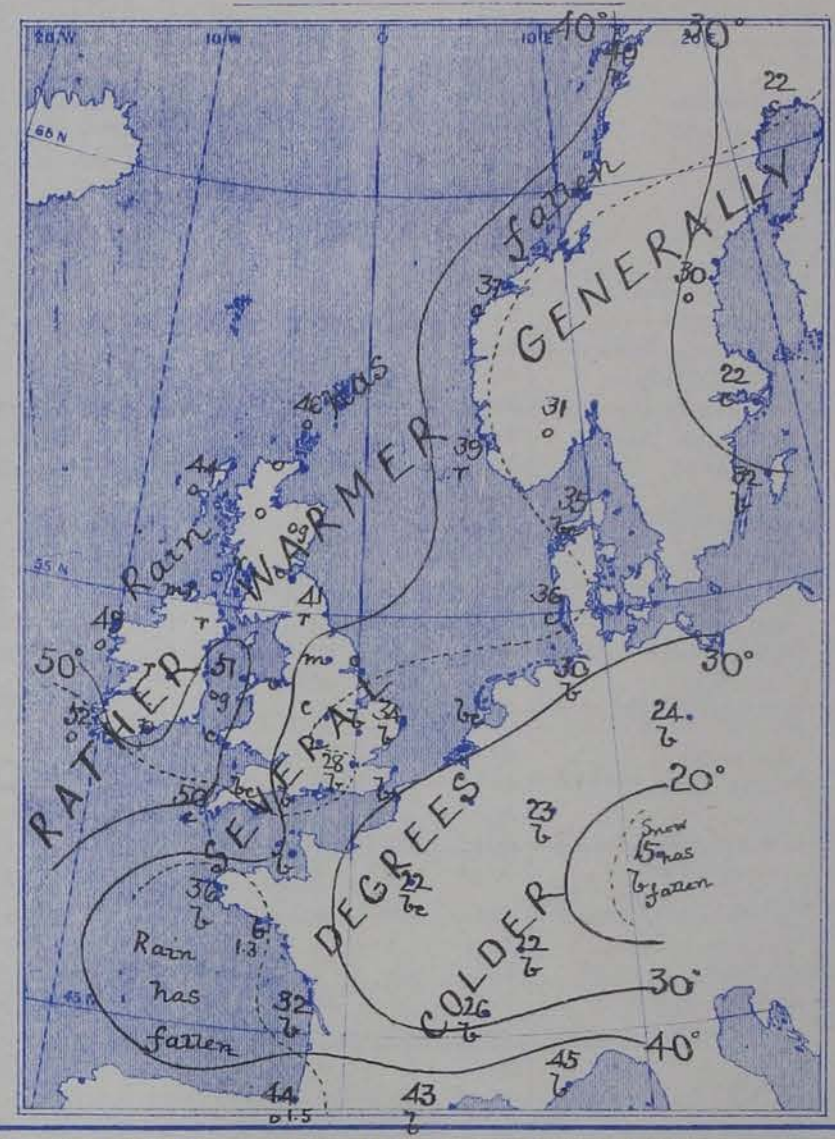


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years		Hours	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and upwards in an anticyclone lying over the S. of England, the N. of France, the Netherlands and the W^rn. and central parts of Germany.
Lowest 29.6 ins. and less in a depression passing across the N. of Scandinavia; 29.8 ins. and less in a secondary system lying near the Shetlands.
Gradients steep over the N^rn. parts of the North Sea and also over the S. of France, but moderate or slight elsewhere.
Barometer falling in all the more N^rn. parts of our islands, and also in Scandinavia and Denmark, rising in most other parts of our area.

TEMPERATURE

Highest (1) 52° at Valencia (Ireland), 51° at Holyhead, and 50° at Pembroke and Jersey; (2) 49° at Leiston, & 45° at Nice.
Lowest (1) 15° at Munich, and 22° at Paris and Belfort (2) 19° at Karlstad, and 22° at Haparanda and Stockholm; (3) 28° in London and at Cambridge.
Sharp frost occurred last night over the inland parts of England, the sheltered thermometer falling to 26° at Cambridge, and to 28° in London.

WIND

Light to fresh from the S^rn. or SW^rn. over the western and northern parts of our islands generally, but NW^ly on our extreme north and northwest coasts. SW^ly in the west of Norway, with a gale at Bodö:
Varying between E. and N. in the extreme south of England, as well as over France and S. Germany, and fresh in force in the Bay of Biscay.
W^ly or NW^ly in Denmark and the south of Sweden; calm over the northern parts of Sweden.

WEATHER

Cloudy and unsettled in all the more N^rn. and W^rn. parts of our islands, and also in Scandinavia, with rain in several places and snow at Haparanda.
Fine in the S. of England, as well as in France, Germany, Denmark & the Netherlands.
Since yesterday morning a little rain has fallen in most parts of the United Kingdom, and larger quantities in the W. of France, — as much as 1.5 ins. at Biarritz.

SEA

Moderate to smooth generally, but rather rough at Bodö.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure systems in the N. are inclined to spread southwards and some extension of cloudy showery weather is therefore probable, with a brisk, but temporary, increase in temperature over England.

FORECASTS

For the 24 hours ending at NOON on 27TH NOVEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW^ly winds, freshening, unsettled, some cold showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW^ly to W^ly winds, freshening; changeable, some showers.
3	ENGLAND EAST	S^ly to W^ly winds, light, fair at first, showery later, milder.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Variable breezes, finally SW^ly; cold at first, with local fogs; then becoming cloudy, showery & milder.
6	SCOTLAND WEST	SW^ly to W^ly or NW^ly winds, fresh or strong; cloudy, unsettled, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S^ly and SW^ly winds, moderate; cloudy, showery.
9	IRELAND NORTH	Same as Nos. 0 and 1.
10	IRELAND SOUTH	W^ly winds, moderate or fresh; cloudy, showery.
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·46	31	27	N	1	b	1
Sumburgh Head	30·37	39	35	S	1	c	3
Stornoway	30·30	46	45	NSW	1	o	1
Aberdeen	30·42	42	39	S	1	c	3
Shields	30·43	42	41	SE	1	dp	3
Ardrossan	30·39	45	44	NNE	1	cf	1
Malin Head ...	30·33	47	46	SE	3	om	1
Belmullet	30·33	52	40	NE	1	b	*
Holyhead	30·34	47	45	E	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·34	51	49	N	2	o	5
Scilly	30·11	52	49	ENE	5	o	5
Jersey	30·16	46	44	E	4	c	3
Hurst Castle ...	30·26	49	47	ENE	3	om	2
Dungeness ...	30·28	46	45	ESE	4	oqu	3
North Foreland	30·32	45	42	E	3	c	3
London (Westminster)	30·30	48	45	E	2	oqm	*
Yarmouth ...	30·32	44	41	ENE	4	bc	3
Rochefort ...	30·00	50	48	E	3	o	*

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

Weather in morning cloudy or dull over W^m. Europe as a whole, with mist or fog in places, and with showers at several of our own W^m. and S^w. stations. Fine over the N^w. and also over the S^w. parts of the Continent, but dull in many parts of Austria and also over the S^w. parts of Russia and Germany, with snow at Vienna and Lemberg. Improvement taking place later in our islands, but rain setting in over our N^w. districts at night. Heavy rain falling during day at Lorient and Biarritz.

Temperature risen in our islands, France and N^w. Italy, but fallen elsewhere. Morning readings highest 60° at Corunna and Algiers, 59° at Malta, and 58° at Tunis, above 50° at several of the Mediterranean and Spanish coast stations, and just touching that point in the W. of Ireland. Lowest 10° at Knopio, 11° at Haparanda, 12° at Uleaborg, and 15° at S^t. Petersburg, below the freezing point over N^w., central and E^w. Europe generally. Rising during day to 50° or a little above it on many parts of our own W^m. coasts, and also in London, exceeding 55° in the S. of France, and reaching 62° at Perpignan. Sharp frost occurring over the inland parts of England at night.

Wind light to fresh from the E^wd. or SE^wd. over the greater part of our islands and France; fresh to strong from the N^wd. or NW^wd. on our extreme southwest coasts, and light from the same quarters over the Spanish peninsula. N^th. or NW^th. over northern and central Europe generally, and strong in force at some of the Baltic stations; calm in the south of Russia; variable in Italy. Subsequently veering to the E^wd. on our southwest coasts and falling light, shifting to the NW. in the north of Scotland.

Barometer highest 30·3 ins. and upwards in an anticyclone lying over the North Sea and the neighbouring parts of our islands and the Continent, as well as in another system over the Spanish peninsula. Lowest 29·4 ins. and less in a depression moving E^wds. across N^w. Russia, 30·0 ins. and less in a small shallow disturbance at the mouth of the English Channel. Latter disturbance subsequently moving away to the S^wd. and anticyclone spreading over the whole of 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.

* 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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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 27th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.33	15	NE	2	c	29.31	-.27	5	4	-14	NE	2	c	#	c	#	23	5	0.08
	Hernösand ...	29.34	30	SW	2	0	29.22	-.67	33	32	+3	NW	2	b	#	0	#	34	18	-
	Stockholm ...	29.47	32	W	0	s	29.42	-.69	31	31	+9	W	4	bc	#	s	#	32	18	0.12
	Wisby	29.73	36	NNW	9	s	29.75	-.42	40	36	+8	SW	6	b	#	s	#	40	28	?0.12
	Karlstad ...	29.55	36	SW	2	b	29.52	-.65	33	31	+14	W	2	bc	#	r.b	#	#	#	-
	Bodö	29.20	37	SW	4	r	29.03	-.57	27	26	-13	E	6	s	3	r	#	10	25	-
	Christiansund ...	29.50	41	WSW	6	r	29.38	-.50	41	39	+4	WSW	6	r	5	r	#	41	36	0.35
	Skudesnaes ...	29.82	44	NNW	6	bc	29.71	-.45	45	41	+6	W	4	c	3	r.bc	#	46	39	#
	Færder (Christiania Fjord)	29.64	41	WSW	5	b	29.58	-.64	42	39	+11	WSW	6	b	4	b	#	42	30	-
	Skagen (The Scaw)	29.70	42	WNW	6	b	29.68	-.57	44	41	+9	NW	7	b	2	b	#	45	34	0.12
	Fanö	29.92	45	WSW	6	r	29.89	-.50	43	42	+7	W	4	b	#	r	#	45	34	0.32
British Islands.	Sumburgh Head	29.89	44	WSW	4	0	29.48	-.31	44	42	-2	WSW	3	0	4	c.o	#	46	37	0.09
	Stornoway ...	29.99	42	WSW	2	b	29.62	-.40	43	42	-1	NW	4	r	4	o.b	0.0	44	40	0.30
	Wick	29.93	40	W	4	c	29.57	-.38	44	43	-1	W	3	o	2	c	#	46	39	0.01
	Nairn	30.02	43	W	2	c	29.65	-.35	45	43	-2	W	2	o	1	c	#	45	38	-
	Aberdeen ...	30.03	44	WSW	3	og	29.70	-.32	42	40	-5	SW	3	bc	3	op.og	0.0	48	34	0.02
	Leith	30.09	46	W	2	o	29.76	-.37	46	45	-2	W	2	om	#	o	#	49	43	0.01
	Shields	30.12	48	SW	1	o	29.86	-.10	45	44	+4	SSW	3	r	2	op.o	#	50	39	0.02
	Spurn Head ...	30.15	43	SW	5	o	29.92	-.46	46	46	+9	SSW	3	qr	3	og,or	#	46	37	0.21
	York	30.17	46	SSW	2	o	29.92	-.44	46	45	+8	S	1	rm	#	r.om	0.0	48	38	0.10
	Loughborough ...	30.28	43	SW	4	o	29.99	-.49	50	49	+17	SW	2	o	#	opq.op	#	50	33	0.05
	Ardrossan ...	30.11	48	W	3	o	29.78	-.39	49	49	0	SW	5	r	4	o	#	50	47	0.07
	Malin Head ...	30.13	47	WSW	5	op	29.82	-.35	48	46	0	W	6	ogpm	4	o.op	#	49	46	0.16
	Belmullet ...	30.22	49	WSW	1	o	29.98	-.31	49	46	0	NW	4	o	#	o	#	50	46	0.53
	Donaghadee ...	30.18	46	SSW	2	oq	29.83	-.44	47	47	-1	WSW	3	o	1	oq	#	48	44	0.52
	Liverpool (Bidston)	30.20	48	WSW	2	r	29.91	-.47	51	50	+6	SSW	2	r	2	m.r	#	51	45	0.33
	Holyhead ...	30.22	51	WSW	5	gmr	29.91	-.48	53	53	+2	SW	6	gmr	4	gmr	#	54	47	0.51
	Parsonstown ...	30.30	48	SW	1	o	29.97	-.39	52	51	+6	SW	1	or	#	o2.o	0.0	53	45	0.38
	Valencia ...	30.30	54	WSW	1	o	30.02	-.39	54	53	+2	SW	4	gmr	5	rm.o	0.0	55	51	0.38
	Roche's Point ..	30.32	52	WSW	5	d	30.07	-.36	54	53	+5	W	5	bp	4	d	#	54	48	0.10
	Pembroke (St. Ann's Hd.)	30.30	53	W	6	o	30.05	-.41	54	53	+4	W	7	o	6	o	0.0	54	48	0.03
	Scilly	30.42	50	SW	4	c	30.22	-.24	53	51	+3	SW	5	o	4	c	2.6	53	?50	-
	Prawle Point ...	30.41	49	WSW	3	c	30.21	-.30	51	49	+8	WSW	6	fv	5	c.p	#	51	42	0.01
	Jersey (St. Aubin's)	30.48	36	SSW	1	b	30.31	-.22	49	46	+9	SW	3	bcm	3	b	#	49	34	-
	Hurst Castle ...	30.41	48	WSW	4	bc	30.17	-.35	53	51	+16	WSW	5	ou	3	b.bc	#	?53	36	0.02
	Dungeness ...	30.42	42	SW	3	c	30.14	-.39	50	50	+13	WSW	5	d	4	c	#	51	36	0.01
	North Foreland	30.44	38	SE	2	b	30.13	-.41	40	39	+5	WSW	3	o	2	b	#	40	35	0.08
	London (Brixton) ...	30.38	42	SW	2	or	30.12	-.40	50	48	+22	SW	3	o	#	bm.c.or	1.0	50	28	0.03
	Oxford	30.32	45	SSW	3	r	30.08	-.45	50	49	+17	WSW	4	ou	#	c.or	#	50	33	0.03
	Cambridge ...	30.33	40	SW	3	r	30.04	-.49	49	49	+21	SW	4	oq	#	o.r	0.5	50	27	0.11
	Yarmouth ...	30.30	38	SW	3	r	30.03	-.45	46	45	+12	SW	2	qf	3	c.r	#	46	32	0.09
Germany & Holland.	Cuxhaven ...	30.30	32	SW	5	o	29.97	-.50	35	35	+5	SW	2	o	#	o.s	#	36	28	0.12
	Berlin	30.37	28	W	4	o	30.06	-.45	30	29	+6	W	3	s	#	o	#	34	24	0.12
	Wiesbaden ...	#	#	#	#	#	30.32	-.24	28	27	+5	SE	2	#	#	#	#	34	23	-
	Munich	30.45	17	SE	4	b	30.34	-.13	23	23	+8	W	4	#	#	b	#	27	14	-
	The Helder ...	30.28	40	SW	5	r	29.99	-.54	47	46	+17	W	4	o	3	r	#	47	30	0.20
Belgium.	Brussels ...	#	#	#	#	#	30.28		33	31		SSW	4	r	#	o	#	35	21	-
	Cape Gris Nez ...																#			
	Paris	30.49	27	NNE	2	b	30.38	-.13	25	24	+3	SSE	2	o	#	b	#	?	22	-
	Brest	30.47	41	E	1	b	30.34	-.14	48	44	+12	SSW	2	b	1	b	#	50	34	-
	Lorient	30.48	41	ENE	4	b	30.37	-.10	39	38	+2	ENE	3	b	2	b	#	48	34	-
France &	Rochefort ...	30.38	35	ENE	6	bc	30.36	+.05	28	27	-4	E	3	b	#	b.bc	#	46	25	-
	Belfort	30.45	23	E	2	m	30.44	+.05	22	21	0	W	2	m	#	m	#	32	17	-
	Lyons	30.46	28	NNW	1	b	30.47	+.15	21	19	-5	N	1	b	#	b	#	33	21	-
	Nice	30.26	41	E	6	b	30.36	+.38	36	31	-9	E	2	b	3	b	#	50	36	-
	Perpignan ...	30.32	47	NE	2	o	30.41	+.32	38	37	-5	SW	2	o	#	o	#	52	33	-
	Biarritz ...	30.30	45	NNW	3	b	30.33	+.21	36	34	-8	E	4	c	5	b	#	55	36	-
Peninsula.	Corunna ...																#			
	Lisbon	30.11	56	NNE	4	o	30.24	+.27	51	48	+2	NNE	4	b	#	o	#	59	49	-
	Azores (P. Delgada)	30.39	59	NE	4	c	30.34	-.12	59	58	-1	ENE	3	c	3	c	#	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 Saturday, 27th November, 1897.

BAROMETER, WIND AND SEA.

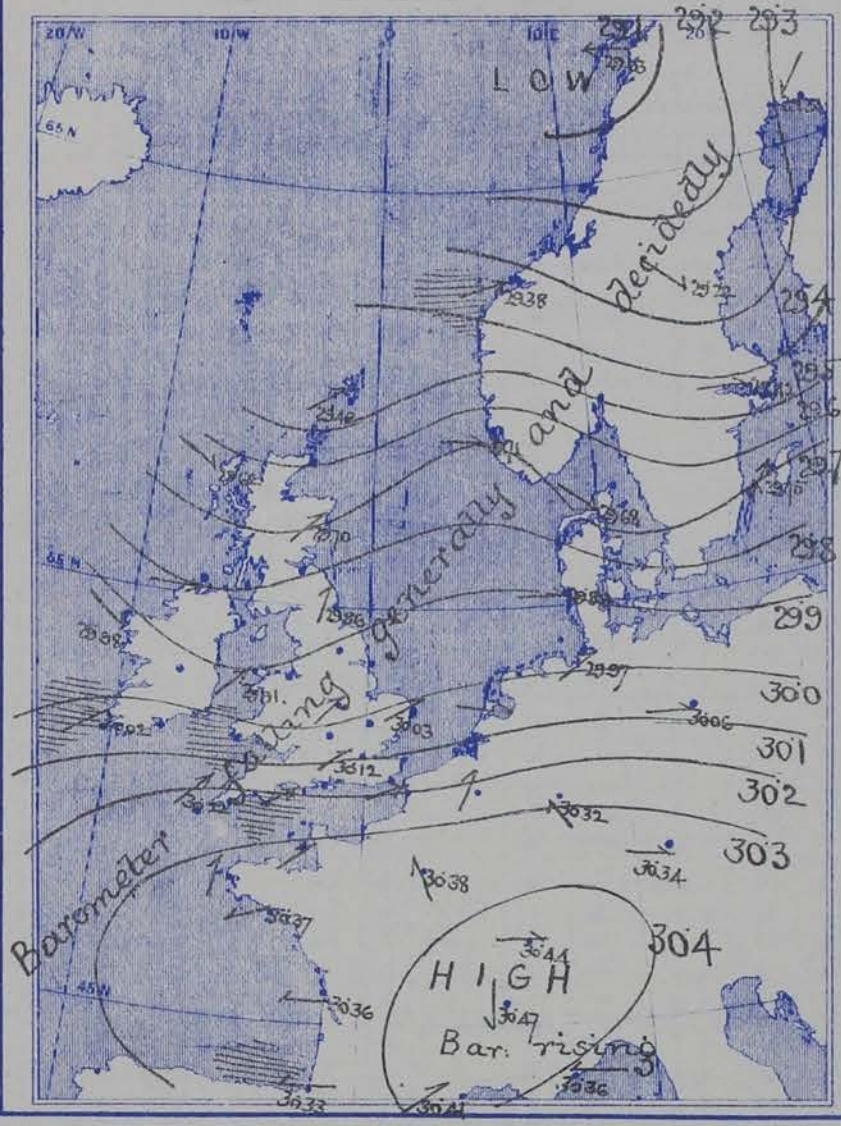
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

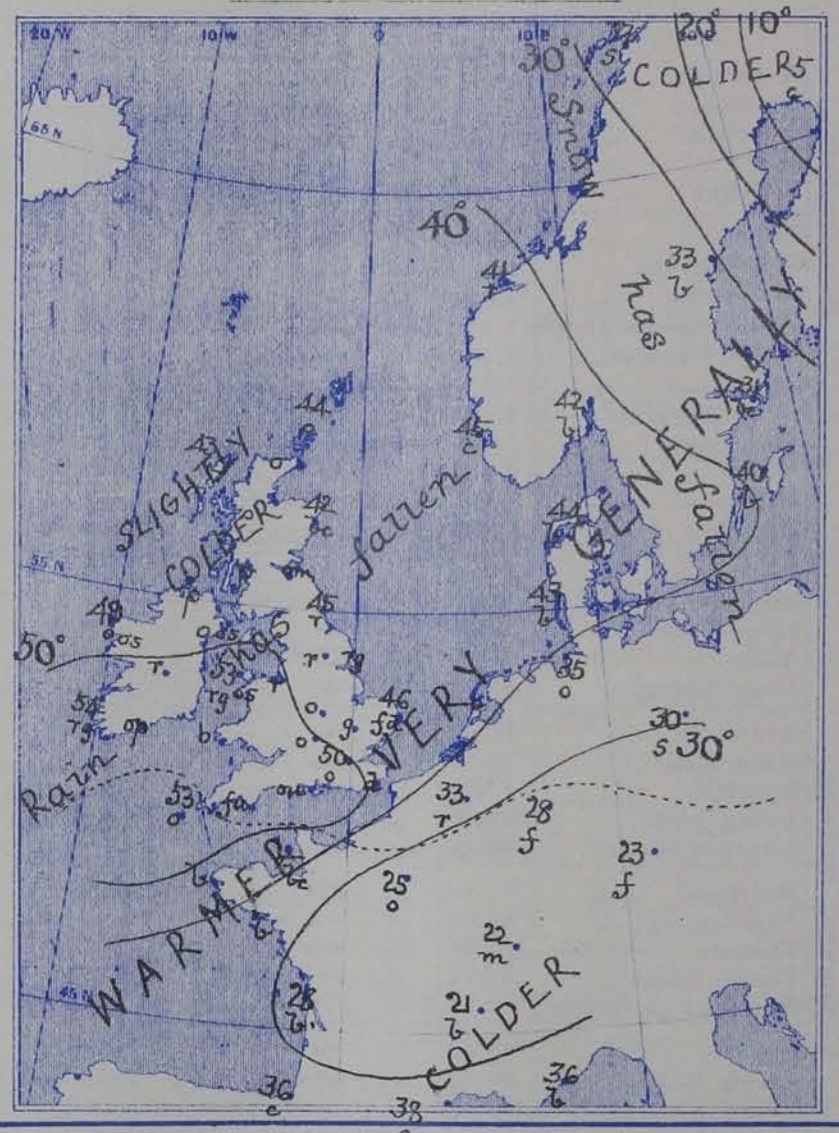


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years	Minimum.	Years.		Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 to 30·3 in. in an anticyclone over France and South Germany.
Lowest, Below 29·1 in. over Finmark, and below 29·6 in. in the extreme north of Scotland.
Gradients moderate for SW. and W. winds.
Barometer falling generally and decidedly.

TEMPERATURE

Highest, 54° to 50° over the southern parts of our Islands and on the west coast of Wales.
Lowest, (1) 21° to 23° over the southern part of France and Germany, 25° at Paris, 30° at Berlin; (2) 5° at Haparanda; (3) 42° at Aberdeen.
The thermometer has risen 21° at Cambridge, and 22° in London since yesterday morning.

WIND

W. (SW. to NW.) over the British Islands generally; moderate to strong in force.
Over France it is light and anticyclonic.

WEATHER

Very fine over the south and west of France, as well as in Denmark and Sweden, overcast in our Islands and Norway, with rain in several places, snow at Bodö.
Rain has fallen very generally over the United Kingdom, and at our most western stations the fall has been considerable.
Bright Sunshine recorded yesterday amounted to 6·7 hrs at Eastbourne, 6·4 hrs at Hastings, and 6·0 hrs at the other south coast stations; in the northwest and north there was none.

SEA

Rather rough on our southwest coasts, slight in the southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of mild showery weather is probable, and in all probability strong winds shortly.

FORECASTS

For the 24 hours ending at NOON on 28th Nov. 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Varying W. breezes; changeable, rain at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW. winds, moderate or fresh; mild, unsettled, rain at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW. winds, fresh or strong; mild, unsettled, rain at times.
6	SCOTLAND WEST	SW. to W. winds, strong in places, squally, rain at times.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	NW. to W. winds, strong in places, squally, showery.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.82	46	46	W	9	r	5
Sumburgh Head	29.80	45	42	WSW	5	c	4
Stornoway	30.03	44	42	WNW	3	o	3
Aberdeen	30.04	45	42	W	2	cg	2
Shields	30.14	50	47	SW	3	o	3
Ardrossan	30.12	49	48	W	4	o	3
Malin Head ...	30.17	48	45	WSW	4	o	3
Belmullet	30.25	50	47	W	1	o	*
Holyhead	30.28	49	49	WSW	5	gmr	4
Valencia	30.32	52	52	S	4	rm	5
Scilly	30.44	52	49	SW	3	c	4
Jersey	30.50	45	37	E	3	b	3
Hurst Castle ...	30.46	49	43	SSW	2	b	2
Dungeness ...	30.48	42	37	SSE	3	c	2
North Foreland	30.49	39	35	SE	2	b	2
London (Westminster)	30.42	44	39	SSW	1	bc	#
Yarmouth ...	30.37	39	34	SW	4	c	3
Rochefort ...	30.34	40	35	NE	5	b	#

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

Weather in morning fine and bright over the whole of Central Europe, including the west of France and the southeastern portion of England, cloudy or overcast elsewhere, and very unsettled; rain falling in several parts of the British Islands and Norway, snow at Haparanda, Memel, and Breslau, as well as at Turin, rain at Patras. Rain falling later in all parts of our Islands, the Netherlands and Denmark, the falls in the west and northwest of the British Islands being considerable, snow in Sweden and at Cuphaven.

Temperature changing very fitfully – fallen rapidly over the southeast of England and in many parts of France and Germany. Morning readings highest 58° at Malta and Algiers, 54° at Barcelona, 53° at Athens and Lanjeumaire; 52° at Valencia (Ireland) 51° at Holyhead. Lowest (1) 12° at Moscow, 14° at Kuopio, 15° at Wiev, and much below the freezing point over the inland parts of Continental Europe generally, (2) at Cambridge and in London, 33° at Oxford and Loughborough. Rising rapidly over England late.

Wind mainly E² to N³ over Southern Europe, and blowing strongly over the Adriatic; (2) light and anticyclonic over North Germany, the Netherlands, the north of France and the southeast of England; (3) very variable (NW to SW cyclonic) over the greater part of the British Islands and Norway. Backing to W. or SW. in Scotland later, and a cyclonic SW³ breeze spreading all over England and the Channel.

Barometer highest 30·6 in: at Brussels and exceeding 30·3 in: over Ireland, England, France, Germany, and Austria-Hungary. Lowest (1) 29·5 in: and less over the White Sea and the Kola Peninsula, and below 29·6 in: over Lapland generally; (2) 29·9 in: to 30·0 in: over the Hebrides and Adriatic. Gradients steep off the west of Norway and over the southeast of France and north of Italy. Falling locally later over the British Islands, rapidly over 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.

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

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 28th Nov. 1897.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.27	−2	NE	2	o	29.10	−.21	5	4	0	NE	2	o	*	o	*	16	−4	—
	Hernösand ...	29.10	28	2	o	b	28.93	−.29	17	17	−16	2	o	b	*	b	*	37	?	—
	Stockholm ...	29.28	33	2	o	b	28.87	−.55	36	35	+5	W	4	r	*	b	*	36	30	0.20
	Wisby	29.45	40	WNW	6	b	29.10	−.65	40	37	0	WNW	8	b	*	b	*	43	34	—
	Karlstad ...	29.25	41	SW	4	bc	29.02	−.50	37	31	+4	WNW	4	o	*	bc	*	*	*	0.12
	Bodö	29.06	21	E	4	b	29.08	+.05	20	17	−7	E	4	b	1	b	*	27	18	—
	Christiansund ...	29.08	38	W	4	r	29.01	−.37	35	34	−6	N	8	s	6	r	*	41	34	0.35
	Skudesnaes ...	29.38	42	WNW	9	o	29.20	−.51	40	38	−5	W	6	o	5	o	*	48	37	*
	Færder (Christiania Fjord)	29.25	45	SW	6	o	29.15	−.43	41	36	−1	SW	5	o	4	o	*	45	41	—
	Skagen (The Scaw)	29.32	42	W	4	r	29.23	−.45	41	39	−3	WNW	6	bc	2	r	*	46	41	0.08
	Fanö	29.56	43	WSW	4	o	29.45	−.44	43	42	0	W	4	c	*	o	*	45	41	0.04
	Sumburgh Head	29.39	40	WNW	4	c	28.99	−.49	37	36	−7	2	o	o	4	c	*	45	34	0.33
	Stornoway ...	29.60	39	NW	6	o	28.91	−.71	41	40	−2	NW	5	oq	5	o	3.0	43	38	0.70
	Wick	29.53	36	NW	2	o	28.88	−.69	40	39	−4	SW	7	rspw	4	orsp	*	44	34	0.35
	Nairn	29.65	38	SW	4	b	28.97	−.68	41	40	−4	WSW	3	r	2	b	*	47	36	0.10
	Aberdeen ...	29.68	37	W	2	b	29.04	−.66	40	38	−2	S	6	oqw	4	bcq, b, r	3.9	48	33	—
	Leith	29.75	43	W	2	b	29.11	−.65	44	41	−2	SW	8	c	*	b	*	51	40	0.01
	Shields	29.87	43	W	2	b	29.31	−.55	43	41	−2	SSW	3	o	2	r, bc, b	*	49	40	0.03
	Spurn Head ...	29.84	47	WNW	4	c	29.49	−.43	48	47	+2	SW	5	o	4	r, c, b	*	51	41	0.10
	York	29.83	46	W	1	b	29.45	−.47	44	42	−2	SSW	3	o	*	r, c, b	0.0	54	39	0.07
	Loughborough ...	29.91	48	WNW	2	o	29.65	−.34	43	41	−7	SW	3	ow	*	r, o, b, oq	*	54	40	0.15
British Isles	Ardrossan ...	29.78	45	W	3	bp	29.14	−.64	47	47	−2	SW	8	pw	6	bp	*	50	43	0.14
	Malin Head ...	29.83	46	WNW	6	cq	29.11	−.71	47	46	−1	NW	7	ohq	6	c, rhq	*	49	43	0.42
	Belmullet ...	29.97	47	NNW	1	o	29.43	−.55	50	47	+1	WNW	10	o	*	o	*	50	45	0.21
	Donaghadee ...	29.90	44	W	4	b	29.36	−.47	44	43	−3	WSW	6	c	4	b	*	48	40	0.01
	Liverpool (Bidston)	29.90	47	W	3	c	29.55	−.36	43	41	−8	WSW	4	r	3	c, r	*	53	43	0.17
	Holyhead ...	29.93	48	WNW	5	c	29.53	−.38	46	44	−7	SW	7	ow	5	cp	*	54	44	0.26
	Parsonstown ...	29.99	44	2	o	c	29.52	−.45	47	46	−5	W	3	or	*	or, c	1.1	52	41	0.16
	Valencia ...	30.06	51	NW	2	cp	29.72	−.30	53	50	−1	WSW	7	ow	6	ogp, cp	0.2	54	46	0.28
	Roche's Point ...	30.07	48	NNW	3	b	29.70	−.37	49	47	−5	W	5	cp	4	b	*	54	44	0.35
	Pembroke (St. Ann's Hd.)	29.97	? 50	NNE	2	o	29.70	−.35	48	47	−6	WNW	7	rq	6	o	0.0	54	47	0.70
	Scilly	30.02	54	SW	5	r	29.88	−.34	51	49	−2	W	6	cq	4	o, r	0.0	55	48	0.16
	Prawle Point ...	30.03	52	WSW	6	o	29.83	−.38	48	47	−3	WSW	5	cp	4	o, r	*	53	46	0.25
	Jersey (St. Aubin's)	30.07	49	SW	5	bc	29.90	−.41	52	51	+3	WSW	4	cmp	4	bc, cq	*	53	48	0.07
	Hurst Castle ...	30.02	53	WSW	6	o	29.80	−.37	49	46	−4	W	4	o	2	o	*	53	46	0.08
	Dungeness ...	29.97	52	WSW	6	dq	29.78	−.36	45	45	−5	WSW	3	bc	3	ogd	*	53	44	0.30
	North Foreland	29.96	52	WSW	5	r	29.76	−.37	43	42	+3	SW	2	o	2	r	*	54	40	0.30
	London (Brixton) ...	29.95	52	WNW	2	ogd	29.77	−.35	43	42	−7	WSW	2	o	*	og, r	0.0	53	41	0.33
	Oxford	29.92	50	SW	3	r	29.73	−.35	43	41	−7	WSW	3	or	*	o, or	*	53	39	0.30
	Cambridge ...	29.91	50	SW	2	r	29.69	−.35	41	41	−8	SW	2	o	*	r	0.0	55	39	0.11
	Yarmouth ...	29.83	51	WNW	4	or	29.65	−.38	41	40	−5	SW	4	ow	3	dq, or	*	52	37	0.12
Germany & Holland	Cuxhaven ...	29.75	36	SW	4	r	29.55	−.42	39	39	+4	SW	2	c	*	o, r	*	43	35	0.16
	Berlin	29.86	33	SW	3	s	29.65	−.41	40	39	+10	W	2	o	*	5	*	?	33	0.24
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30.19	33	W	3	o	29.96	−.38	39	33	+16	SW	5	o	*	o	*	39	23	—
	The Helder ...	29.78	49	WNW	6	c	29.62	−.37	46	43	0	W	4	c	3	c	*	50	46	0.35
Belgium. France &	Brussels ...	*	*	*	*	*	29.79	−.49	35	35	+2	SW	5	r	*	r	*	41	32	0.43
	Cape Gris Nez ...																*			
	Paris	29.84	34	SSW	2	bc	29.97	−.41	33	33	+8	S	3	r	*	bc	*	39	28	—
	Brest	30.17	52	SW	3	b	29.97	−.37	53	52	+5	W	4	c	4	b	*	52	43	0.04
	Lorient	? 30.22	46	WSW	2	c	29.98	−.39	55	55	+16	WSW	6	f	5	c	*	?	36	—
	Rochefort ...	30.22	40	E	3	b	30.13	−.23	50	46	+22	SSE	3	o	*	b	*	?	?	—
	Belfort	30.29	30	WSW	4	m	30.12	−.32	28	27	+6	W	3	f	*	m	*	38	22	—
	Lyons	30.37	31	W	1	b	30.22	−.25	24	24	+3	S	1	b	*	b	*	37	21	—
	Nice	30.25	39	2	o	b	30.03	−.33	37	35	+1	2	o	bc	1	b	*	48	36	—
	Perpignan ...	29.92	46	2	o	b	30.21	−.20	32	30	−6	SW	1	b	*	b	*	50	30	—
	Biarritz ...	30.21	49	E	3	b	30.44	−.19	50	45	+14	SW	4	o	4	b	*	54	36	—
Peninsula.	Corunna ...																*			
	Lisbon	30.27	56	NNE	4	b	? 30.26	+.02	50	48	−1	NNE	4	b	*	b	*	64	50	—
	Azores (P. Delgada)	30.31	59	NE	3	bc	30.28	−.06	59	55	0	NE	4	c	3	bc	*	63	55	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 SUNDAY, 28TH NOVEMBER, 1897.

BAROMETER, WIND AND SEA.

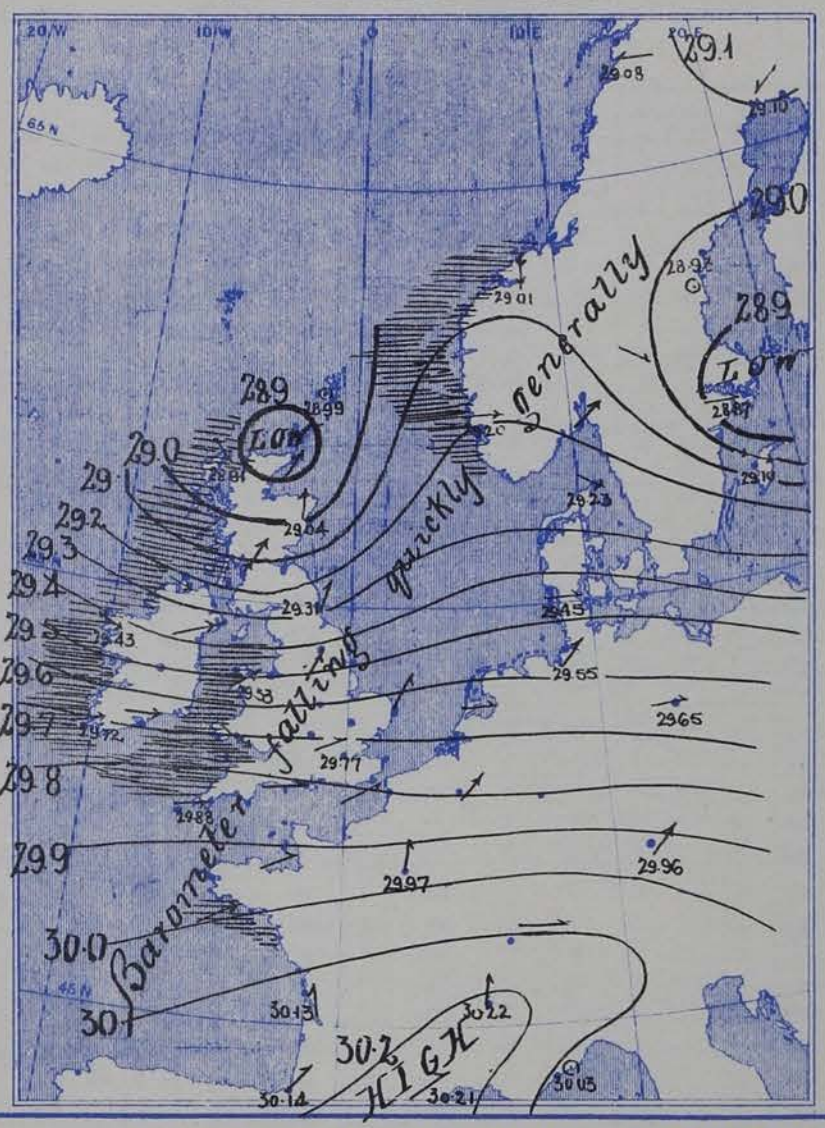
BAROMETER—Isobars are drawn for each tenth of an inch.

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 ▩

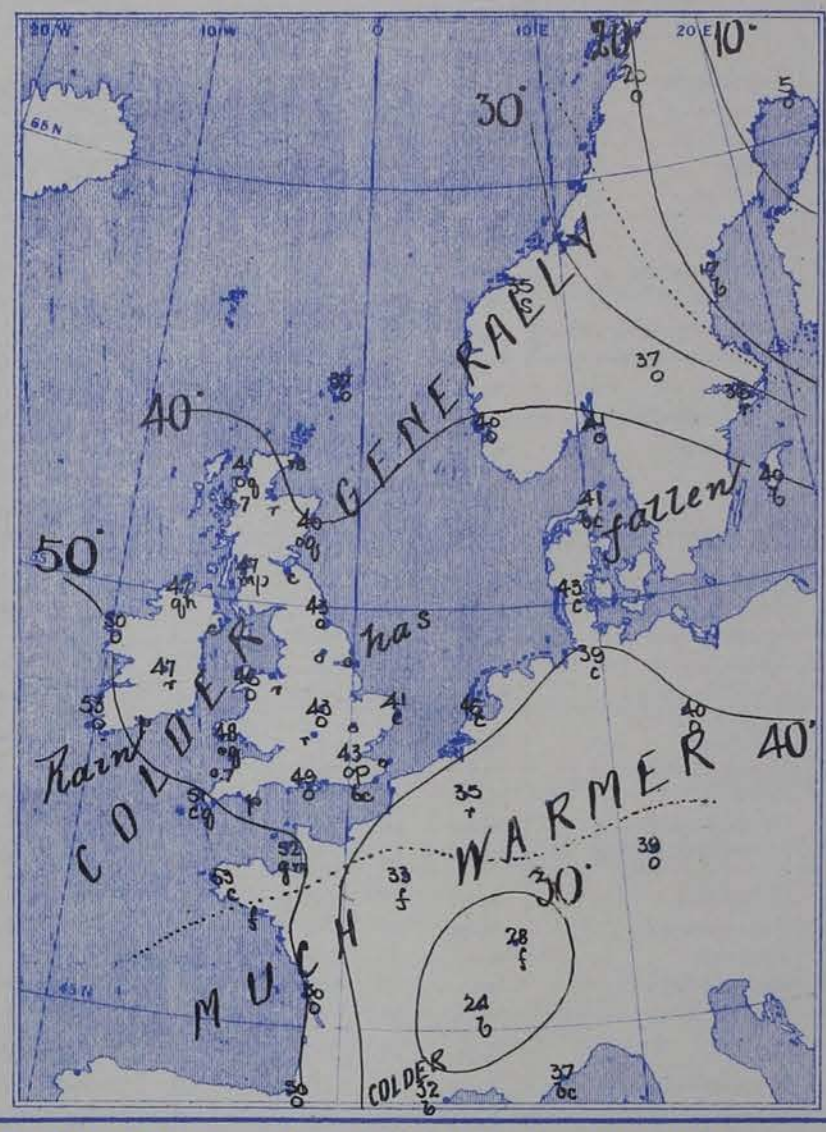


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5½	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 more to 30·0 ins: in an anticyclone over Spain and the southern half of France.
Lowest, 28·9 ins: in two depressions — one over Sweden, the other over the north of Scotland and the Orkneys.
Gradient, for W^d winds, steep over Denmark, and very steep over the northern half of the British Islands.
Barometer falling generally — rapidly over the northern and northwestern parts of the British Islands.

TEMPERATURE

Highest, 53° to 50° on the coasts of Brittany, at the mouth of the Channel, and along the west coast of Ireland
Lowest, (1) 5° F. at Haparanda, 17° at Hernösand, 20° at Bodö: 24° at Lyons, 28° at Belfast, 33° at Paris.
It has fallen over our Islands generally, but is not below 40° except at Lerwick Head and in some parts of Caithness.

WIND

W^d (SW to NW) over almost the whole of Western Europe and is increasing in strength generally.
At Belmullet a "whole gale" has set in from WNW.
Over France and Germany it is light as a whole.

WEATHER

Still fine over southwestern and southern Europe and in some parts of Sweden, but becoming rough and unsettled over the British Islands and northwestern Europe, with rain in many places, hail at Malin Head.
Rain has fallen in all parts of our Islands and the neighbouring parts of Continental Europe — heavily at Stornoway and Pembroke — and snow has fallen over Caithness. The general condition is becoming rough and stormlike

SEA

Rough and rising on our extreme northwestern coasts, moderate in the north, smooth or slight in the south and east

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 29th Nov^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	At 9·30 am to districts 0 to 2 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.49	46	44	SW	6	o	4
Sumburgh Head	29.35	41	38	WNW	4	c	5
Stornoway	29.66	42	39	WNW	6	ohq	6
Aberdeen	29.65	43	38	W	6	bcq	3
Shields	29.77	48	46	W	3	bc	2
Ardrossan	29.79	47	45	W	5	b	4
Malin Head ...	29.86	45	44	WNW	5	c	4
Belmullet	29.99	49	44	NW	3	bc	*
Holyhead	29.94	50	48	NW	4	cp	4
Valencia	30.05	50	48	NNW	4	ogp	5
Scilly	30.13	54	52	SW	5	o	4
Jersey	30.22	51	46	SW	5	o	4
Hurst Castle ...	30.08	53	51	WSW	5	or	3
Dungeness ...	30.02	52	51	WSW	6	oq	5
North Foreland	29.99	52	51	WSW	5	o	3
London (Westminster)	29.99	54	51	W	4	oq	*
Yarmouth ...	29.83	52	50	WSW	5	cdq	3
Rochefort ...	30.28	41	36	E	3	b	*

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

Weather in morning fine and bright over southwestern and southern Europe, also over Sweden, dull over the central countries, very rainy and unsettled in the northwest, with snow at Bodö and St Petersburg. Rain falling later in considerable quantities both over our Islands and northwestern Europe, snow over Baltimore, and appearance becoming very unsettled and rainlike over the northwestern countries generally, but remaining fine and bright in the southwest and south.

Temperature risen very rapidly over England, the North Sea and the Baltic; fallen fast over the Mediterranean and southeastern Europe. Morning readings (highest) 64° at Malta, 59° at Algiers and San Fernando, 54° at Patras; 54° to 50° over the southwestern half of our Islands. Lowest (1) 5° F. at Haparanda, 15° at Kuopio, 18° at Moscow; (2) 5° F. at Hermanstadt, 10° at Kharkov, 16° at Buda Pesth, 18° at Prague, 21° at Lyons, 25° at Paris. Rising decidedly over France later, and touching 54° over the greater part of Ireland and England, beginning to fall fast in Scotland.

Wind light to moderate in force and anticyclonic, over the southwestern, southern & southeastern countries of Europe generally; cyclonic from between SW. and NW. over all the northern countries, and freshening in force at many stations. Becoming strong from NW. on our northwestern coasts later, but remaining light to moderate or fresh at our southern stations.

Barometer in morning highest 30·59 in: at Hermanstadt, and exceeding 30·2 in: in a complex anticyclonic system covering the whole of the southern countries of Continental Europe. Lowest (1) Below 29·1 in: over Denmark; (2) below 29·2 in: over the Gulf of Finland, and below 29·6 in: over the extreme north of Scotland; (3) below 30·0 in: over the western parts of Greece and neighbouring parts of the Mediterranean. Falling fast over Scandinavia later – inclined to rise over the west of our Islands.

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, 29th November, 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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...														#		#			
	Hernösand ...														#		#			
	Stockholm ...														#		#			
	Wisby														#		#			
	Karlstad ...														#		#	#	#	
	Bodö ... ... †	29·13	15	E	2	b	29.00	-.08	18	15	-2	E	4	S	1	b	#	20	-6	-
	Christiansund ... †	29·13	33	NE	3	bc	29.20	+.19	30	29	-5	ESE	1	b	4	bc	#	36	18	0·16
	Skudesnaes ... †	28·77	41	SE	6	o	28.99	-.21	35	32	-5	N	6	bc	3	o	#	41	34	#
	Færder (Christiania Fjord) †	28·96	40	NNW	1	bc	29.02	-.13	30	27	-11	NNE	7	o	3	bc	#	41	28	-
	Skagen (The Scaw) †	28·92	41	SSW	2	c	28.74	-.49	35	31	-6	ENE	9	s	3	c	#	43	34	0·32
	Fanö ... ... †	28·69	46	S	1	r	28.43	-.192	37	37	-6	NNW	1	r	#	r	#	43	36	0·75
	Sumburgh Head	28·63	38	NE	5	r	29.40	+.41	36	32	-1	N	6	o	6	r	#	42	33	0·55
	Stornoway ...	28·93	38	NNE	9	shq	29.68	+.77	35	34	-6	N	6	o	6	grh.sq	0·2	41	32	0·54
	Wick	28·67	35	NW	5	bc	29.52	+.64	37	35	-3	N	7	o spu	4	bc	#	42	32	0·20
	Nairn	28·62	37	NNW	8	r	29.59	+.62	36	35	-5	NNW	6	r	6	r	#	42	31	0·47
	Aberdeen ...	28·62	35	W	6	bcqu	29.46	+.42	36	34	-4	N	9	bcqrhpu	7	o, bcq	0·3	43	34	0·43
	Leith	28·70	38	W	7	c	29.54	+.43	37	34	-7	NNW	3	b	#	prh	#	44	35	0·21
	Shields	28·81	37	SW	5	b	29.35	+.04	37	36	-6	N	7	ors	7	r q. b	#	47	35	0·37
	Spurn Head ...																#			
	York	28·96	37	WSW	6	b	29.37	-.08	36	35	-8	NNW	6	rs	#	r.b	0·0	45	34	0·27
	Loughborough ...	29·12	40	WNW	7	b	29.36	-.29	39	35	-4	NW	6	b	#	pq.b-q	#	50	35	0·22
British Isles.	Ardrossan ...	28·91	46	WNW	8	qrh	29.64	+.50	39	37	-8	NW	3	b	2	qrh.l	#	48	36	0·24
	Malin Head ...	29·08	42	WNW	10	chrsq	29.74	+.63	40	39	-7	NNW	7	c	6	hrsq	#	47	36	0·26
	Belmullet ...	29·46	42	NW	8	cqpl	29.95	+.52	44	39	-6	N	3	c	#	cqpl	#	50	37	0·08
	Donaghadee ...	29·10	39	WNW	8	c	29.66	+.30	44	41	0	N	8	bq	6	c	#	46	35	0·21
	Liverpool (Bidston)	29·08	42	W	10	o	29.52	-.03	42	36	-1	NW	8	bc	7	phrl	#	49	39	0·22
	Holyhead ...	29·23	43	WNW	9	cqhr	29.59	+.06	44	41	-2	NW	9	chq	7	cqhr	#	50	38	0·23
	Parsonstown ...	29·42	38	W	4	bc	29.89	+.37	36	35	-11	NW	1	bc	#	orh.bqp	1·7	50	35	0·09
	Valencia ...	29·65	48	WNW	8	op	29.99	+.27	47	42	-6	N	6	bcq	6	op	0·7	53	41	0·10
	Roche's Point ..	29·57	46	NW	5	bq	29.91	+.21	45	43	-4	NW	5	b	4	rq.l	#	53	40	0·10
	Pembroke (St. Ann's Hd.)	29·41	47	NW	7	bc	29.70	.00	45	43	-3	NNW	7	bc	6	o, bc. q	0·1	52	40	0·07
	Scilly	29·58	52	WNW	8	cq	29.83	-.05	49	46	-2	NNW	8	cq	5	o. cq	0·2	54	43	0·08
	Prawle Point ...	29·47	49	WSW	7	bc	29.66	-.17	41	39	-7	WNW	6	bc	5	bc. qp	#	51	38	0·10
	Jersey (St. Aubin's)	29·58	53	W	7	oqr	29.62	-.28	47	42	-5	WNW	7	c	5	cq. rhq	#	54	43	0·26
	Hurst Castle ...	29·34	45	W	7	oqpr	29.47	-.33	42	39	-7	WNW	5	b	3	oqp	#	52	41	0·14
	Dungeness ...	29·19	53	WSW	9	o	29.10	-.68	44	39	-1	WNW	6	c	6	c. pl	#	53	38	0·04
	North Foreland	29·16	48	SW	6	r	29.10	-.66	42	41	-1	W	10	c	6	c. rl	#	50	37	0·16
	London (Brixton) ...	29·21	50	WSW	7	oqp	29.32	-.45	42	36	-1	NNW	7	bc	#	qp b. bcq	0·0	50	37	0·07
	Oxford	29·27	40	WSW	6	bc	29.43	-.30	41	37	-2	NW	6	bq	#	qphr	#	50	36	0·22
	Cambridge ...	29·15	42	W	6	c	29.24	-.45	41	37	0	NW	7	bc	#	o. cphl	0·2	50	36	0·06
	Yarmouth ...	29·01	47	W	7	rq	28.92	-.73	42	40	+1	NW	9	rq	6	q, rh	#	49	34	0·40
Germany & Holland.	Cuxhaven ...	29·25	40	SW	5	o	28.58	-.97	35	35	-4	SW	5	r	#	o. p	#	43	34	0·32
	Berlin	29·36	34	SW	3	s	28.91	-.74	36	35	-4	SW	4	c	#	s	#	40	34	0·24
	Wiesbaden ...	#	#	#	#	#	29.10		37	36		SW	4	o	#	#	#	39	37	0·28
	Munich... ..	29·62	44	SW	4	c	29.25	-.71	31	31	-8	NW	4	s	#	c	#	46	30	-
	The Helder ...																#			
Belgium.	Brussels ...	#	#	#	#	#	28.97	-.32	35	34	0	SW	6	s	#	t	#	46	35	0·35
	Cape Gris Nez...	29·22	52	W	7	o	29.13		46	44		NW	8	o	8	o	#	54	44	0·16
	Paris	29·61	46	SSW	3	o	29.38	-.59	38	36	+5	SW	4	bc	#	o	#	50	33	0·20
	Brest	29·73	52	W	6	c	29.76	?	45	42	-8	NNW	6	be	7	c	#	54	39	0·04
	Lorient... ...	29·79	53	WNW	6	r	29.82	-.16	46	45	-9	NW	6	s	7	r	#	54	36	0·08
France &	Rochefort ...	29·85	55	WSW	7	r	29.78	-.35	50	46	0	NNW	7	bc	#	o. r	#	55	45	0·28
	Belfort ... ... †	29·76	39	W	7	o	29.28	-.84	33	33	+5	W	7	s	#	o	#	46	28	0·24
	Lyons	29·95	34	S	1	b	29.57	-.65	41	39	+17	WNW	6	r	#	b	#	45	24	0·12
	Nice	29·91	43	E	1	b	29.51	-.52	47	39	+10	NW	6	bc	6	b	#	50	37	-
	Perpignan ...	30·04	48	NW	2	b	29.75	-.46	47	43	+15	SW	3	c	#	b	#	57	32	-
	Biarritz ...	30·04	58	WSW	5	o	29.89	-.25	56	55	+6	W	6	r	6	o	#	57	50	0·12
Peninsula.	Corunna ...																#			
	Lisbon	30·22	55	NNW	4	b	30.23	-.03	53	50	+3	NW	1	bc	#	b	#	61	50	-
	Azores (P. Delgada)	30·32	59	NE	4	b	30.30	+.02	59	58	0	NE	4	bc	3	b	#	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. 0·5 hrs.

WEATHER CHARTS

FOR Monday, 29th November 1897.

BAROMETER, WIND AND SEA.

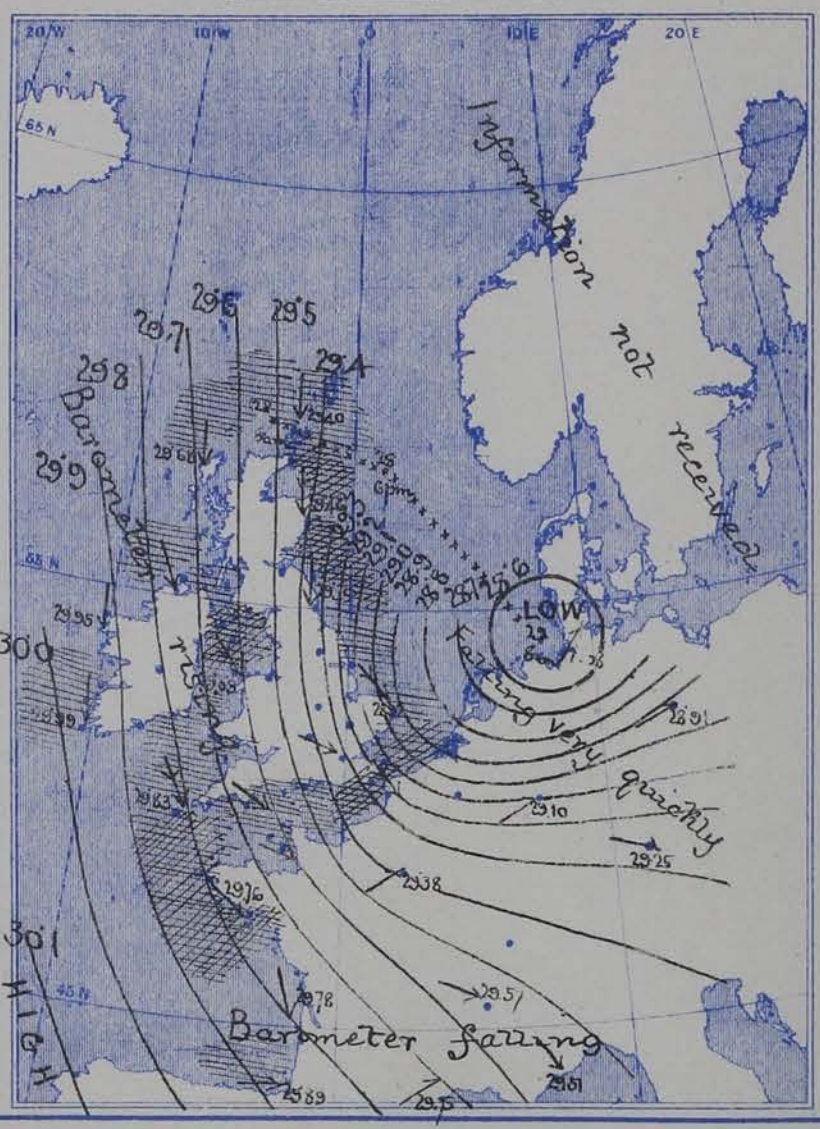
BAROMETER—Isobars are drawn for each tenth of an inch.

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

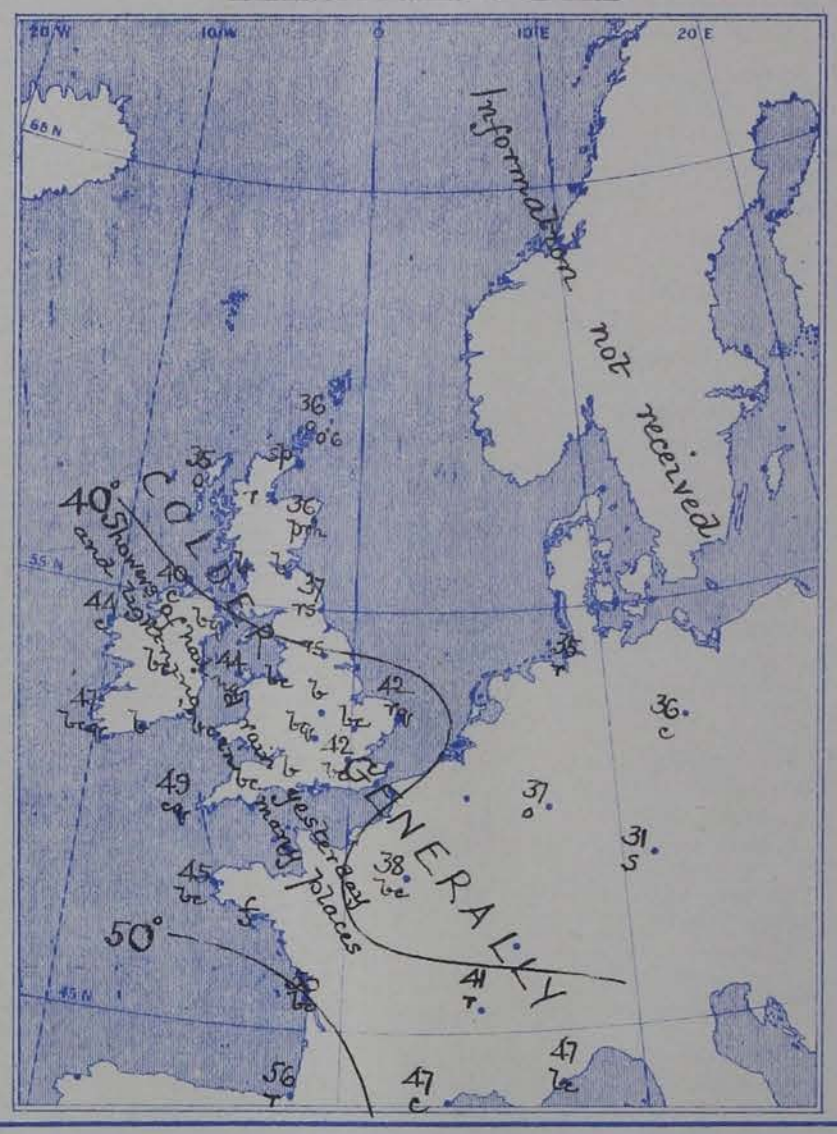


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 6	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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, 30·23 ins. at Lisbon, and above 30·0 ins. over the southwestern half of the Spanish Peninsula generally.
Lowest, Below 28·6 ins. in a deep depression lying over Holland and the southern parts of the North Sea.
Gradients very steep over the Netherlands and the East of England, and steep over Great Britain as a whole.
Barometer still falling fast over Germany, but rising over our Islands. In London the rise began soon after 5 a.m.

TEMPERATURE

Highest, 56° at Biarritz, 49° at Scilly, 47° at Jersey and Valencia (Ireland)
Lowest, (1) 31° at Munich, 36° at Berlin; (2) 35° at Stornoway, 36° at Parsonstown, Dumbarton, Hd. Aberdeen and York.
It has fallen considerably over our Islands generally, and is apparently still going down.

WIND

N³ at all our northern stations, NW³ over England and the Channel: it is blowing a hard gale on the coasts of Great Britain and the north of France, but the gale is subsiding in Ireland, where it had been very heavy on Sunday.
(Scandinavian Reports not received).

WEATHER

Very rough and squally generally, with hail and snow showers at our northern stations. Showers of hail or cold rain have occurred in most parts of the Kingdom, and lightning is reported in most districts.
Bright Sunshine recorded yesterday was 1·7 hours at Valencia, (2 hrs at Torquay) but less than an hour elsewhere; in London there was none.

SEA

High on our west, north and east coasts, and on the north coast of France, rough off our south coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression is still moving southeastwards, and as it passes off the gales are likely to moderate slowly, leaving a very keen dry air over the British Isles – possibly frost inland.

FORECASTS

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

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	N.W. gales, subsiding and backing to NW; cold showers, then clear and probably frosty.
▼ 1	SCOTLAND EAST	
▼ 2	ENGLAND N.E.	
3	ENGLAND EAST	NW. gales; squally, some cold showers, then finer. Very cold tonight.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	Same as Nos 3 to 5.
▼ 7	ENGLAND N.W.	
▼ 8	ENGLAND S.W.	
▼ 9	IRELAND NORTH	N. and NW. breezes, fresh to light; fair, cold, frosty tonight.
▼ 10	IRELAND SOUTH	
	WARNINGS	The South Cone is still flying in districts 0 to 2 and 6 to 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.04	41	39	NSW	2	0	4
Sumburgh Head							
Stornoway	28.72	40	38	NW	6	ohrq	6
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	28.98	42	39	W	8	c	6
Belmullet	29.46	43	40	WNW	10	c	*
Holyhead							
Valencia							
Scilly							
Jersey	29.73	53	51	W	6	c	4
Hurst Castle ...							
Dungeness ...	29.45	51	49	WSW	7	c	6
North Foreland	29.42	46	45	SW	4	c	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.02	54	50	SW	4	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 21ST TO THE 27TH NOVR. 1897.

At the commencement of this week there was still an anticyclonic system of great intensity covering the whole of Germany and France and spreading northwestwards over our Islands, so that W¾ to SW¾ breezes, dry weather, and temperatures differing very little from the means were reported over the British Islands as a whole. On Tuesday and Wednesday a new but small anticyclonic system spread over Great Britain from the northward, and at the same time a small depression moved in a parallel direction down over western coasts, causing considerable rain over Ireland and Wales, and a heavy fall at certain stations in the west of France on the following day.

After Wednesday the anticyclonic system began to give way completely, depressions appeared in the northwest and north, and spread steadily over the Kingdom, rain began to fall generally, and temperature became very unsteady. Friday morning was very gusty over the southern parts of England, but by Saturday the thermometer has risen rapidly and rainy weather became prevalent in all Districts.

At the close of the week SW¼ to NW¾ winds were blowing all over the Kingdom and the general appearance was unsettled and rainlike.

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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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 30th November, 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.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	28·92	10	NW	2	c	29·09	+ ·28	7	6	− 3	NW	2	bc	#	c	#	14	7	—
	Hernösand ...	29·13	4	Z	0	b	29·24	+ ·10	5	4	− 3	Z	0	b	#	b	#	16	1	—
	Stockholm ...	29·07	24	NE	2	0	29·26	+ ·23	17	16	− 7	Z	0	0	#	0	#	30	?	0·04
	Wisby	28·90	33	NNE	6	s	29·28	+ ·36	29	27	− 6	N	6	bc	#	s	#	36	29	0·28
	Karlstad ...	29·26	12	NW	2	b	29·30	+ ·24	9	9	− 15	N	2	b	#	b	#	#	#	—
	Bodö	29·07	21	E	4	b	29·20	+ ·20	18	14	0	E	4	b	1	b	#	21	14	—
	Christiansund ...	29·11	34	N	4	c	29·25	+ ·05	30	29	0	Z	0	c	4	c	#	34	30	0·12
	Skudesnaes ...	29·46	34	NNW	6	0	29·29	+ ·30	26	24	− 9	Z	0	bc	2	b,z,0	#	35	26	#
	Færder (Christiania Fjord)	29·28	26	N	2	b	29·27	+ ·25	31	28	+ 1	WNW	2	b	1	b	#	31	23	—
	Skagen (The Scaw)	29·24	28	NE	4	b	29·30	+ ·56	34	32	− 1	NW	1	b	0	b	#	25	25	0·16
	Fanö	29·38	29	NNE	4	b	29·46	+ 1·03	37	36	0	WNW	8	c	#	b	#	37	28	0·28
	Sumburgh Head	29·52	32	NE	3	0	29·18	− ·22	37	34	+ 1	ESE	3	0	4	0,0	#	37	30	0·02
	Stornoway ...	29·69	35	WNW	4	0	29·16	− ·52	39	38	+ 4	WNW	4	bc	4	s,0	1·8	41	35	0·40
	Wick	29·61	32	NW	2	0	29·08	− ·44	36	34	− 1	NW	3	c	3	osp	#	38	31	0·40
	Nairn	29·71	33	W	1	c	29·19	− ·40	39	37	+ 3	W	2	c	2	c	#	41	31	0·12
	Aberdeen ...	29·69	33	W	3	c	29·21	− ·25	38	36	+ 2	W	3	b	3	spq,c,s	2·4	39	32	0·12
British Isles.	Leith	29·76	35	NNW	1	b	29·28	− ·26	43	40	+ 6	W	4	c	#	b	#	47	34	0·01
	Shields	29·75	35	WNW	3	b	29·32	− ·03	47	45	+ 10	WSW	4	c	4	bkrs,c,b	#	47	32	0·08
	Spurn Head ...	29·71	37	NW	6	bc	29·47	+ ·35	41	39	+ 6	SW	5	0	5	qpkr.bc	#	44	34	0·16
	York	29·78	36	N	1	b	29·43	+ ·06	45	43	+ 9	WSW	2	0	#	s,b	0·0	45	30	0·11
	Loughborough ...	29·83	35	WNW	3	b	29·61	+ ·25	41	40	+ 2	SW	4	c	#	bqg,b,p	#	43	31	0·01
	Ardrossan ...	29·78	43	NE	1	0	29·34	− ·30	46	45	+ 7	W	4	op	3	b,0	#	46	39	0·03
	Malin Head ...	29·82	43	WSW	5	crq	29·37	− ·37	45	44	+ 5	W	6	crqw	5	bccqr	#	49	39	0·13
	Belmullet ...	29·90	45	WSW	3	op	29·51	− ·44	47	43	+ 3	NW	4	0	#	o,p	#	47	42	0·10
	Donaghadee ...	29·87	37	W	5	b	29·45	− ·21	42	41	− 2	SW	5	bc	3	b	#	45	34	0·05
	Liverpool (Bidston)	29·86	43	NW	3	b	29·51	− ·01	49	45	+ 7	WSW	4	bc	5	b,p	#	49	38	0·06
	Holyhead ...	29·89	44	NW	6	c	29·54	− ·05	50	48	+ 6	SW	6	oq	5	hq,c	#	50	40	0·04
	Parsonstown ...	29·98	38	S	1	0	29·53	− ·36	47	46	+ 11	W	1	ow	#	b,02	5·7	49	36	0·22
	Valencia ...	30·03	49	WSW	4	0	29·62	− ·37	52	50	+ 5	SW	6	omq	6	c,0	4·0	52	43	0·09
	Roche's Point ..	30·05	45	W	3	bc	29·66	− ·25	50	49	+ 5	WSW	4	cp	4	m,bc	#	50	43	0·05
	Pembroke (St. Ann's Hd.)	29·97	44	NNW	5	b	29·67	− ·03	52	50	+ 7	WNW	6	bcq	5	b	4·3	52	40	0·13
	Scilly	30·04	48	NNW	5	bc	29·83	·00	52	51	+ 3	WSW	5	cp	4	c,bc	6·0	52	44	0·05
	Prawle Point ..	30·01	40	NW	3	b	29·82	+ ·16	50	49	+ 9	WSW	6	opqw	5	b,pq	#	50	37	0·03
	Jersey (St. Aubin's)	29·94	46	NW	4	b	29·95	+ ·33	50	47	+ 3	WSW	6	ow	5	qrh,bc,b	#	50	39	0·02
	Hurst Castle ...	29·89	41	WNW	3	b	29·79	+ ·32	50	49	+ 8	WSW	6	ow	3	b	#	51	36	—
	Dungeness ...	29·75	39	NW	6	bc	29·76	+ ·66	47	45	+ 3	WSW	5	r	4	bc	#	47	30	0·01
	North Foreland	?29·69	40	WNW	8	c	29·79	+ ·69	39	38	− 3	SSW	4	0	3	c	#	43	32	—
	London (Brixton) ...	29·82	39	NNW	5	b	29·74	+ ·42	44	42	+ 2	WSW	3	op	#	bcq,b	3·0	44	31	0·01
	Oxford	29·92	35	W	1	b	29·70	+ ·27	43	42	+ 2	SW	3	r	#	bq	#	43	32	0·03
	Cambridge ...	29·81	36	NNW	4	b	29·68	+ ·44	39	37	− 2	SW	4	0	#	bq	4·7	43	30	—
	Yarmouth ...	29·62	43	NW	5	c	29·62	+ ·70	37	36	− 5	SW	5	oq	4	c	#	45	31	0·16
Germany & Holland.	Cuxhaven ...	29·03	37	N	10	0	29·54	+ ·96	36	36	+ 1	W	5	r	#	orsp	#	39	32	0·95
	Berlin	29·98	37	SW	1	0	29·65	+ ·74	29	27	− 7	WNW	4	b	#	0	#	41	27	—
	Wiesbaden ...	#	#	#	#	#	29·88	+ ·78	37	35	0	SW	2	0	#	#	#	43	36	0·12
	Munich... ..	29·25	35	W	8	s	29·90	+ ·65	30	28	− 1	W	6	b	#	s	#	36	28	0·28
	The Helder ...	29·46	44	N	8	bc	29·65		43	39		WSW	5	c	2	bc	#	45	39	0·04
Belgium.	Brussels ...	#	#	#	#	#	29·89	+ ·92	39	31	− 2	SSW	1	c	#	s	#	42	33	0·39
	Cape Gris Nez...																#			
	Paris	29·76	42	NW	4	bc	30·04	+ ·66	29	28	− 9	S	2	bc	#	bc	#	48	28	—
	Brest	30·04	47	NW	5	c	30·01	+ ·25	52	50	+ 7	WSW	5	c	5	c	#	55	41	0·04
	Lorient... ...	30·04	47	NW	6	f	30·06	+ ·24	50	49	+ 4	W	6	r	5	f	#	54	41	—
France &	Rochefort ...	29·97	50	WNW	6	bc	30·13	+ ·35	43	41	− 7	E	3	b	#	bc	#	57	37	—
	Belfort	29·49	34	S	8	s	30·07	+ ·79	32	31	− 1	W	1	0	#	s	#	39	32	0·12
	Lyons	29·77	37	WSW	4	b	30·15	+ ·58	34	32	− 7	NW	2	bc	#	b	#	46	33	—
	Nice	29·48	46	NW	7	b	29·69	+ ·18	43	?	− 4	NE	5	b	3	b	#	55	39	—
	Perpignan ...	29·84	46	NW	6	b	30·12	+ ·37	43	38	− 4	NNW	2	b	#	b	#	59	41	0·04
	Biarritz ...	30·04	52	NNW	6	r	30·14	+ ·25	46	43	− 10	ESE	3	0	5	r	#	57	43	0·12
Peninsula.	Corunna ...																#			
	Lisbon	30·19	55	NW	3	b	30·19	− ·04	54	53	+ 1	NNE	3	0	#	b	#	61	54	—
	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 5·4 hrs;

WEATHER CHARTS

FOR Tuesday 30th November, 1897.

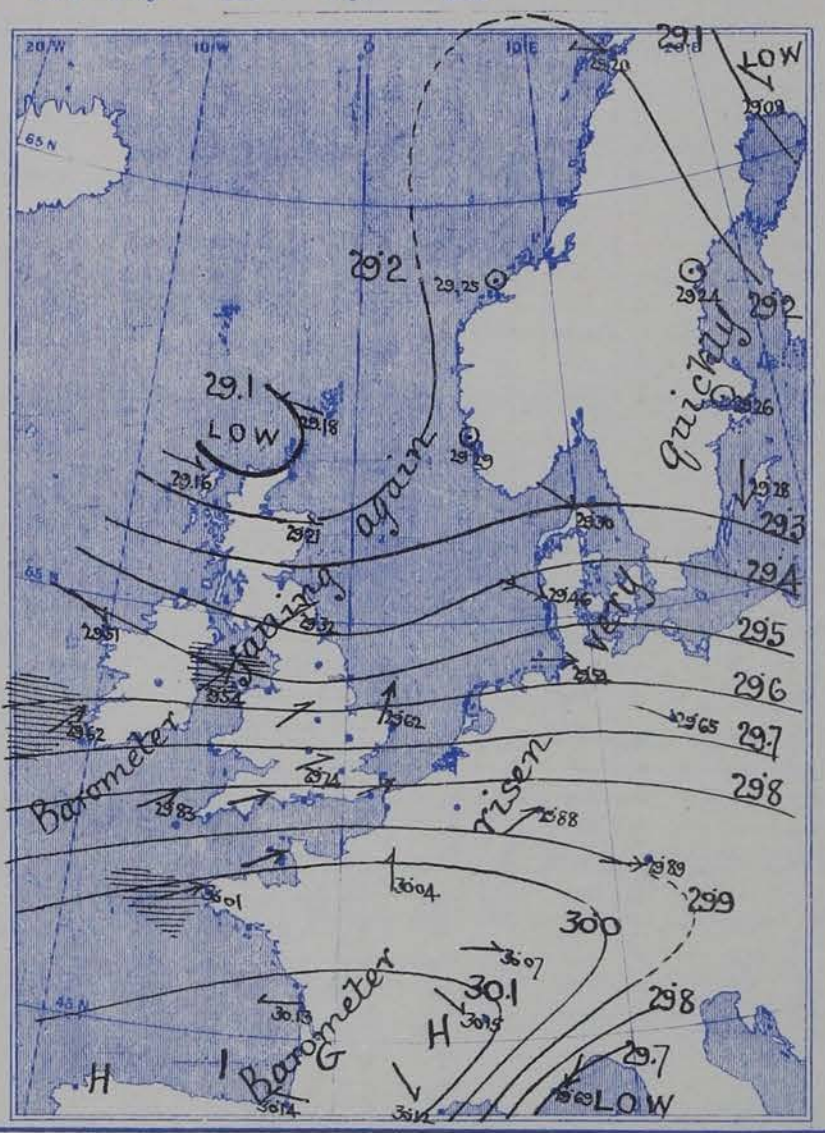
BAROMETER, WIND AND SEA.

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* ▩

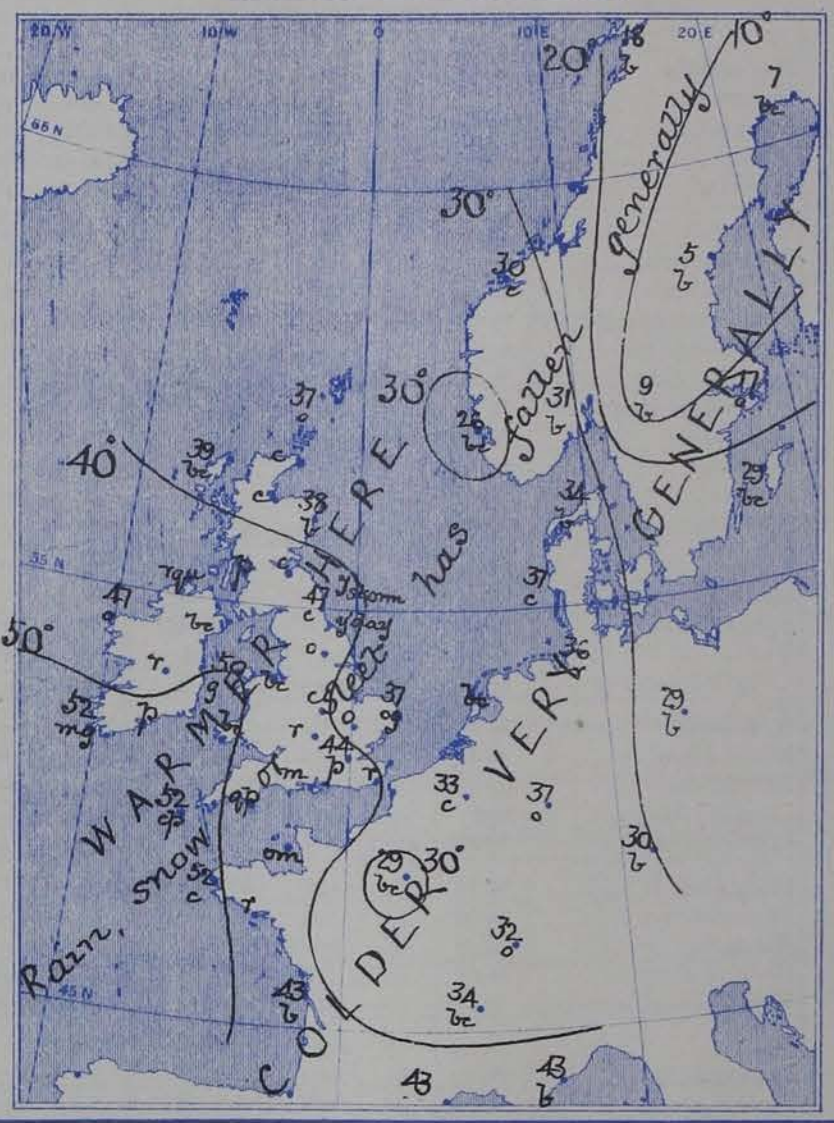


TEMPERATURE & WEATHER.

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 NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 . 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	52	1881	29	1880	3 · 96	—	—
Liverpool	29 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 3	43 · 6	58	1884, 95	28	1890	4 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 910	42 · 5	41 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 . 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* 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 ins. and upwards in an anticyclone lying over the southern parts of France.
Lowest 29.1 ins. and less in a depression off the north of Scotland, and also in another system over Lapland.
Gradients moderate generally, but increasing over the S^rn. parts of our islands and the North Sea; steep over the extreme south of France.
Barometer falling over the whole of the United Kingdom, but rising at most of the Continental stations.

TEMPERATURE

Highest 54° at Lisbon, 52° at Valencia (Ireland), Pembroke, Scilly and Brest, and 50° at Holyhead, Roche's Pt. Prawle Pt. Jersey and Hurst Castle.
Lowest (1) 5° at Hernösand, 7° at Haparanda, 9° at Karlstad, and 17° at Stockholm (2) 29° at Paris and Berlin; lowest in our islands, 36° at Wick.
Frost occurred last night in most parts of Gt. Britain, the lowest readings reported being (1) In the Screen 30° at Dunbrugh N^s. York, Dungeness and Cambridge; (2) On the grass, 21° in London & at Loughborough.

WIND

Moderate from the W^rn. over the northern parts of our islands, but strong from the SW^ard in the south. W. to NW. over Denmark, Germany and the south of Scandinavia, with a gale at Fano; calm over the central parts of Sweden; E. or NE. over the southern parts of France.

WEATHER

Cloudy and showery over the W^rn. and S^rn. parts of the United Kingdom but fair or fine in most other parts of our area; rain was, however, falling at Cushaven.
Snow or sleet fell yesterday in the N. of our islands, as well as at many of the Continental stations.
A thunderstorm occurred yesterday at Shields; lunar halo was seen at Wick.

SEA

Rough at Valencia (Ireland), and rather rough on most other parts of our W^rn. coasts, as well as at Brest.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression has appeared off the N. of Scotland, and there are indications of the advance of a secondary system towards the south of Ireland. The latter disturbance is likely to advance eastwards, and to occasion a considerable increase of wind from the W^rd. on our southern coasts.

FORECASTS

For the 24 hours ending at NOON on 1^ST. DECEMBER 1897.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. to NW. winds, freshening considerably, unsettled, some cold rain or sleet.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	SW. to W. winds, increasing in force, squally, rain at times.
4	MIDLAND COUNTIES	
▽	ENGLAND SOUTH	

DISTRICTS.		FORECASTS.
6	SCOTLAND WEST	Same as Nos. 0 to 2.
7	ENGLAND N.W.	SW. to W. or NW. winds, increasing to a gale, squally and rainy at first, some improvement later.
▽ 8	ENGLAND S.W.	
9	IRELAND NORTH	Same as Nos. 0 to 2.
▽ 10	IRELAND SOUTH	Same as Nos. 7 and 8.
	WARNINGS	At 10 15 am. today to districts 5, 8 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·30	35	28	N	6	b	4
Sumburgh Head	29·52	34	34	N	3	c	5
Stornoway	29·75	38	35	N	5	s	5
Aberdeen	29·64	36	34	NW	7	bcqqpw	6
Shields	29·65	40	36	NW	5	c	6
Ardrossan	29·77	42	40	E	3	b	2
Malin Head ...	29·85	43	41	WNW	6	bc	5
Belmullet	29·99	46	41	NW	2	o	*
Holyhead	29·83	45	41	NW	8	thq	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·07	49	43	WNW	5	c	5
Scilly	29·97	49	45	NNW	7	c	5
Jersey	29·83	48	43	NW	6	bc	5
Hurst Castle ...	29·75	46	39	NNW	6	b	3
Dungeness ...	29·56	43	38	NW	8	bc	6
North Foreland	29·47	43	41	WNW	10	c	7
London (Westminster)	29·63	43	37	NW	7	bcq	*
Yarmouth ...	29·45	44	39	NNW	6	c	6
Rochefort ...	29·85	51	45	NW	6	bc	*

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

Continental information not yet 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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ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
2	Corunna	29.84	62	S	2	r	29.81	-	57	52	-	S	1	c	2	r	-	66	50	0.16
3	Corunna	29.80	64	S	3	o	29.92	+.11	59	56	+ 2	S	2	o	2	o	-	70	54	-
4	Corunna	29.74	64	ESE	2	o	29.89	-.03	57	54	- 2	S	3	c	2	o	-	66	52	-
5	Cape Gris Nez	30.17	38	E	2	f	30.26	+.11	41	-	+ 7	SSE	1	f	1	f	-	44	34	-
..	Corunna	29.96	66	SSW	3	bc	30.13	+.24	63	60	+ 6	S	3	c	2	bc	-	68	57	0.08
6	Corunna	30.07	73	S	3	b	30.06	-.07	64	60	+ 1	S	3	c	4	b	-	75	57	-
7	Wiesbaden	-	-	-	-	-	30.33	-.02	37	-	+ 4	ESE	2	o	-	-	-	-	-	-
-	Azores (P. Delgada)	29.76	59	NW	3	o	29.87	+.19	55	50	- 5	NNW	4	c	4	o	-	66	54	0.04
8	Corunna	30.01	60	S	3	o	30.15	+.31	54	52	- 9	S	3	o	4	o	-	68	48	0.02
9	Corunna	30.11	62	SW	3	r	30.04	-.11	59	57	- 5	S	2	o	3	r	-	70	54	0.51
10	Corunna	30.01	60	S	3	c	30.15	+.11	54	52	- 5	S	3	o	4	c	-	63	48	0.12
11	Cape Gris Nez	30.20	43	ESE	1	m	30.19	-.04	46	-	+ 4	NW	1	m	1	m	-	50	39	-
..	Corunna	30.09	63	N	3	o	30.16	+.01	56	55	+ 2	N	3	f	4	o	-	64	52	-
12	Corunna	30.13	63	NNW	2	c	30.14	-.02	50	49	- 6	NE	2	c	4	c	-	64	46	-
13	Cape Gris Nez	29.98	54	SW	5	o	29.83	-.23	52	-	+ 4	SW	6	o	5	o	-	55	46	-
..	Corunna	30.05	45	N	3	b	29.80	-.34	59	54	+ 9	S	4	o	0	b	-	66	45	-
14	Corunna	29.56	57	S	6	r	29.48	-.32	52	50	- 7	S	3	o	-	r	-	64	48	0.35
15	Cape Gris Nez	29.63	57	S	3	o	29.85	+.15	48	-	- 3	ENE	5	r	5	o	-	61	46	0.51
16	Haparanda	29.52	19	NE	4	o	29.43	-.31	23	22	+ 1	N	8	o	-	o	-	32	14	-
..	Brussels	-	-	-	-	-	30.46	+.60	36	-	- 17	E	1	o	-	o	-	58	34	0.04
..	Corunna	30.02	60	S	3	b	30.18	-	50	48	-	N	3	b	2	b	-	61	45	-
17	Corunna	30.14	64	NE	3	b	30.17	-.01	55	52	+ 5	E	3	b	2	b	-	64	50	-
18	Brussels	-	-	-	-	-	30.24	-.05	49	-	+ 5	SW	4	f	-	o	-	53	43	-
..	Corunna	30.10	67	E	1	b	30.19	+.02	56	52	+ 1	E	3	bc	-	b	-	70	50	-
19	Cape Gris Nez	30.27	53	SSW	2	m	30.41	+.28	47	-	- 6	E	1	m	1	m	-	55	45	-
..	Corunna	30.25	62	E	2	o	30.43	+.24	51	50	- 5	E	1	c	4	o	-	68	46	-
20	Corunna	30.43	63	E	1	o	30.48	+.05	50	47	- 1	E	3	o	3	o	-	63	45	-
22	Corunna	30.46	63	E	1	o	30.44	-	54	48	-	E	3	o	4	o	-	?	46	-
23	Brussels	-	-	-	-	-	30.54	-.20	29	-	- 2	Z	0	f	-	f	-	45	28	-
..	Corunna	30.45	66	E	1	o	30.46	+.02	55	50	+ 1	E	1	o	4	o	-	66	48	-
24	Corunna	30.44	65	E	1	o	30.42	-.01	52	49	- 3	E	2	c	4	o	-	68	48	-
25	Corunna	30.44	69	E	3	bc	30.28	-.14	60	56	+ 8	NW	3	o	2	bc	-	64	50	0.08
26	Brussels	-	-	-	-	-	30.60	+.31	21	-	- 17	NNE	1	bc	-	b	-	43	19	-
..	Corunna	30.15	54	N	6	r	30.22	-.06	54	50	- 6	NE	4	o	4	r	-	61	45	0.12
27	Cape Gris Nez	30.39	39	SW	4	c	30.16	-.34	50	-	+ 23	W	6	r	6	c	-	50	27	0.12
..	Corunna	30.28	57	NE	3	c	30.30	+.08	45	41	- 9	E	2	c	2	c	-	59	37	-
28	Cape Gris Nez	29.99	51	W	4	r	29.82	-.34	47	-	- 3	WNW	5	o	5	r	-	54	45	0.79
29	Haparanda	28.87	11	NE	4	s	28.81	-.29	10	10	+ 5	NNW	2	o	-	s	-	18	-4	0.08
-	Hernösand	29.32	13	NE	4	b	29.14	+.21	8	4	- 9	Z	0	b	-	b	-	30	8	-
-	Stockholm	28.99	31	W	2	o	29.03	+.16	24	23	- 12	NNE	6	o	-	o	-	36	24	0.12
..	Wisby	29.07	39	W	6	b	28.92	-.18	35	34	- 5	SE	4	r	-	b	-	41	35	0.04
-	Karlstad	28.97	26	NW	2	b	29.06	+.04	24	22	- 13	NNE	4	o	-	b	-	-	-	-
..	Spurn Head	28.89	39	N	7	c	29.12	-.37	43	39	- 5	NNW	10	o qr	8	c	-	48	38	0.06
..	The Helder	28.90	47	SW	8	r	28.74	-.88	44	-	- 2	WNW	8	c	6	r	-	48	39	0.35
-	Corunna	30.25	55	E	2	o	30.15	-	55	55	-	NW	4	r	5	o	-	59	48	0.08
30	Cape Gris Nez	29.65	45	N	4	o	29.79	+.66	47	45	+ 1	W	5	o	5	o	-	48	45	-
..	Corunna	30.21	57	N	6	o	30.26	+.11	46	44	- 9	NE	2	bc	5	o	-	59	41	-
..	Azores (P. Delgada)	30.34	59	NNE	4	b	30.29	-.01	56	55	- 3	NE	4	b	3	b	-	64	55	-

REPORTS FOR NOVEMBER 1897.

2. CORRECTIONS.

DATE.	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 Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Berlin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-
2	Spurn Head	-	-	-	-	0	-	-	-	-	-	-	-	0	-	0	-	-	-	-
3	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-
"	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-
"	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5·9	-	-	-
4	Wick	-	-	-	-	-	30·28	-·01	-	-	-	-	-	-	-	-	-	-	-	-
"	Malin Head	-	-	-	-	-	30·25	+·01	-	-	-	-	-	-	-	-	-	-	-	-
"	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-
6	Valencia	-	-	-	-	-	30·25	-·02	-	-	-	-	-	-	-	-	-	-	-	-
"	Stornoway 8 a. 2 p	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-
7	Leith	30·42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Holyhead	-	-	-	-	-	30·25	-	-	-	-	-	-	-	-	-	-	-	-	-
10	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-
14	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-
16	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-
17	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-
"	Jersey	30·24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Ardrossan	29·63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Belmullet	-	-	-	-	-	-	-	49	-	2	-	-	-	-	-	-	-	-	-
-	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-
21	Pembroke	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-
23	Oxford	-	-	-	-	-	-	-	52	-	-	-	-	-	-	-	-	-	-	-
-	Yarmouth	-	-	-	-	-	30·43	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	-
27	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-
28	Pembroke	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Jersey	30·17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Perpignan	30·32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·26
"	Dungeness	-	-	-	-	-	29·19	-·59	-	-	-	-	9	-	-	-	-	-	-	-
30	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-
"	Berlin	28·98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-