

METEOROLOGICAL OFFICE.

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# DAILY WEATHER REPORTS

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1<sup>ST</sup> JANUARY TO 30<sup>TH</sup> JUNE, 1899.

January to June 1839.

January to June 1839.





# DAILY WEATHER REPORT

for 8 a.m. on Sunday 1<sup>st</sup> January, 1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				At 32° and M.S.L.	Dry Bulb.		Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Dir.	Force (0 to 12.)	Max.	Min.	Rainfall.
Ins.		°				Ins.	Ins.	°	°	°							°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.06	7	N	2	b	30.12	+ .23	-15	-15	- 21	2	0	f	#	b	#	16	-15	—	
	Hernösand ...	30.05	3	2	0	bc	30.05	+ .07	8	8	- 7	N	2	0	#	bc	#	18	-2	—	
	Stockholm ...	29.80	27	NE	4	0	29.77	- .04	28	27	- 1	NE	4	5	#	0	#	30	25	0.04	
	Wisby ...	29.63	34	E	4	bc	29.65	+ .01	33	32	- 3	SE	4	c	#	bc	#	36	30	0.28	
	Karlstad ...	29.88	23	NE	6	0	29.80	- .07	26	25	+ 1	NE	4	0	#	0	#	#	#	—	
	Bodö ...	29.94	27	E	2	b	29.90	+ .04	26	23	- 4	E	2	b	1	b	#	30	25	—	
	Christiansund ...	29.76	28	SE	2	bc	29.69	- .19	32	29	+ 2	ESE	5	bc	4	bc	#	32	28	—	
	Skudesnaes ...	29.76	35	ESE	4	b	29.63	- .21	31	30	- 2	SE	6	bc	3	b	#	36	28	#	
	Færder (Christiania Fjord)	29.86	28	NNE	4	0	29.82	- .02	22	21	- 11	NE	6	0	3	0	#	32	21	—	
	Skagen (The Scaw)	29.80	30	E	3	0	29.72	- .04	32	32	- 1	E	4	0	1	0	#	34	30	—	
Fanö ...	29.73	33	NNE	2	0	29.60	- .13	31	31	- 1	E	3	c	#	0	#	34	30	—		
BRITISH ISLANDS.	Sumburgh Head	29.24	40	SSE	7	0	29.23	- .33	39	39	- 1	SSE	8	0	8	0	#	42	38	0.15	
	Stornoway ...	29.10	41	2	0	r	29.02	- .13	41	40	- 2	SSW	5	0	5	or	0.0	45	37	0.20	
	Wick ...	29.19	40	S	7	0	29.11	- .34	43	40	+ 3	S	5	rw	7	0	#	46	35	0.10	
	Nairn ...	29.17	40	S	1	bc	29.10	- .28	31	30	- 7	W	1	bc	1	bc	#	41	30	—	
	Aberdeen ...	29.60	40	SSE	9	0	29.14	- .42	36	36	- 3	SW	1	orgm	6	orgm	0.0	41	36	0.32	
	Leith ...	29.28	39	2	0	0	29.15	- .31	36	35	+ 1	2	0	m	#	0	#	41	33	—	
	Shields ...	29.34	37	SSE	3	0	29.18	- .47	36	36	+ 1	SSW	2	0	3	0	#	39	34	0.10	
	Spurn Head ...	29.34	39	SE	6	0	29.23	- .47	36	36	0	WSW	1	fg	3	or. f	#	40	31	0.19	
	York ...	29.35	35	ESE	1	m	29.21	- .45	34	34	- 1	SE	1	f	#	s.m	0.0	35	33	0.21	
	Loughborough ...	29.26	38	WNW	1	0	29.27	- .42	31	31	- 4	ESE	1	f	#	or. cm. f	#	40	30	0.29	
GERMANY & HOLLAND.	Ardrossan ...	29.22	46	SSW	4	b	29.11	- .16	35	35	- 5	NE	3	bf	1	c. b	#	47	34	—	
	Malin Head ...	29.17	40	SSW	4	bc	29.04	+ .01	35	35	- 11	S	2	b	2	bc	#	47	35	0.09	
	Belmullet ...	29.23	42	WSW	3	c	29.06	- .17	40	39	- 6	SSE	2	c	#	c	#	47	36	0.20	
	Donaghadee ...	29.25	39	SW	3	b	29.13	- .11	33	33	- 14	SW	2	f	0	b	#	48	32	0.01	
	Liverpool (Bidston)	29.29	41	SSE	1	bc	29.21	- .27	35	34	- 3	SSE	1	b	2	pm. b	#	43	35	0.04	
	Holyhead ...	29.28	43	2	0	r	29.19	- .15	40	39	- 6	S	1	c	1	cp. r	#	48	38	0.18	
	Parsonstown ...	29.26	38	2	0	b	29.09	- .20	34	33	- 9	SE	1	0	#	r. b	0.6	44	31	0.06	
	Valencia ...	29.26	42	SW	3	cp	29.02	- .31	42	41	0	S	5	r	5	bc. cp	1.0	47	38	0.34	
	Roche's Point ...	29.32	43	WSW	3	bc	29.11	- .27	43	43	- 2	SSW	6	r	6	ph. bc	#	48	37	0.30	
	Pembroke (St. Ann's Hd.)	29.32	45	W	4	r	29.25	- .17	45	42	- 6	W	4	c	5	r	1.4	50	40	0.36	
FRANCE & BELGIUM.	Scilly ...	29.38	47	W	4	cp	29.35	- .16	48	45	- 2	WSW	5	og	6	cp. cp	1.5	52	40	0.24	
	Prawle Point ...	29.40	44	SW	5	c	29.34	- .32	41	40	- 8	W	4	c	3	c	#	50	37	0.36	
	Jersey (St. Aubin's)	29.47	49	W	6	org	29.38	- .40	46	44	+ 1	W	7	chrgm	5	c. r. p	#	52	42	0.56	
	Hurst Castle ...	29.37	48	SW	1	cm	29.31	- .39	40	39	- 5	WNW	1	rm	2	cm	#	49	40	0.74	
	Dungeness ...	29.46	42	SSW	7	org	29.29	- .54	42	42	- 1	2	0	r	0	r. org	#	1.5	39	0.35	
	North Foreland	29.47	39	SSE	6	r										#					
	London (Brixton) ...	29.37	44	SW	4	0	29.32	- .47	34	34	- 4	SW	1	b	#	or. b	0.0	44	33	0.29	
	Oxford ...	29.36	42	WSW	2	0	29.29	- .40	35	34	- 3	SW	1	0	#	or	#	45	33	0.35	
	Cambridge ...	29.39	40	SSE	2	0	29.29	- .49	37	36	+ 4	SSW	1	0	#	r. o	0.0	41	32	0.10	
	Yarmouth ...	29.46	40	SSE	7	org	29.27	- .55	40	39	+ 6	WSW	2	af	3	c. r. g.	#	41	33	0.28	
PENINSULA.	Cuxhaven ...	29.74	36	2	0	0	29.53	- .19	33	32	- 5	SE	4	0	#	0	#	38	32	—	
	Berlin ...	29.77	37	W	4	0	29.73	+ .08	29	28	- 8	SE	3	bc	#	0	#	43	28	—	
	Wiesbaden ...	#	#	#	#	#								#	#	#	#	#	#	#	
	Munich ...	29.90	29	SE	3	0	29.71	- .26	30	29	- 2	SE	3	0	#	0	#	32	23	0.04	
	The Helder ...														#	#	#	#	#	#	
	Brussels ...	#	#	#	#	#	29.40	- .56	39	38	+ 7	SSE	2	0	#	s	#	29	31	0.08	
	Cape Gris Nez ...	?	38	S	6	r	?	?	41	39	+ 3	S	4	0	4	r	#	46	32	0.47	
	Paris ...	29.71	32	S	3	s	29.36	- .68	41	40	+ 13	SSE	3	r	#	s	#	41	38	0.43	
	Brest ...	29.56	48	W	5	c	29.50	- .22	48	43	- 2	NW	5	c	6	c	#	54	41	0.32	
	Lorient ...	29.59	49	W	6	r	29.54	- .26	48	44	- 3	WNW	7	c	7	r	#	55	42	0.75	

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, 1<sup>st</sup> January, 1899.

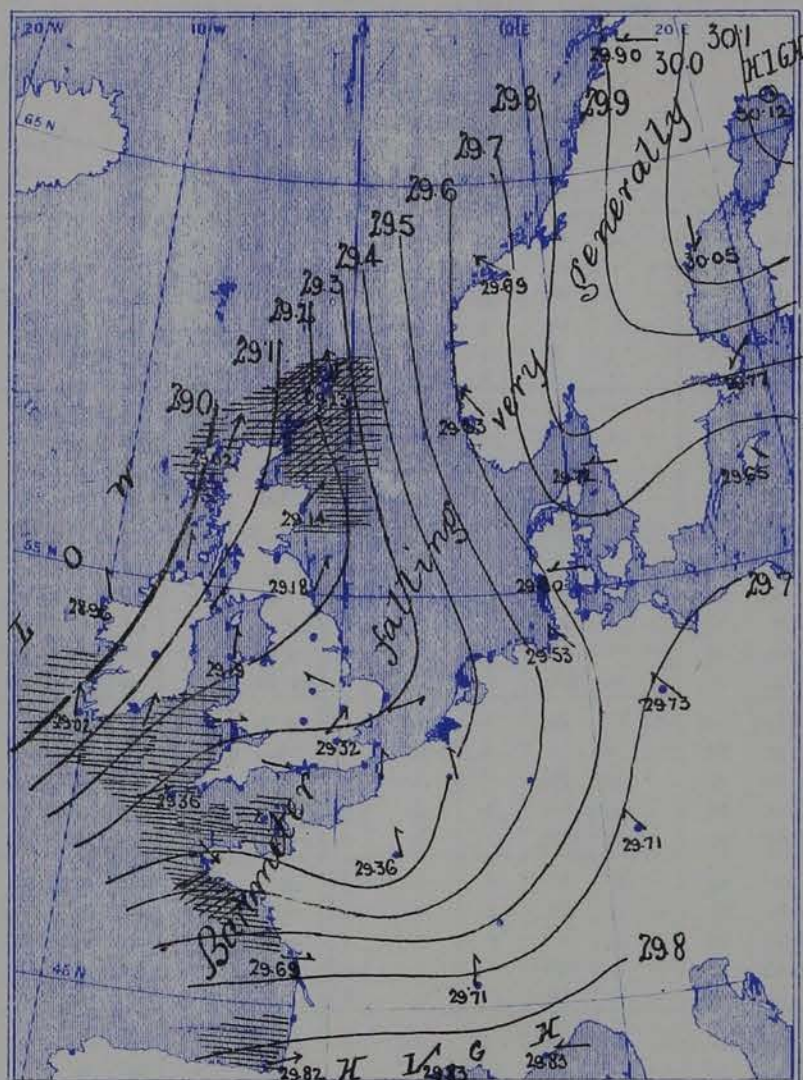
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough : High

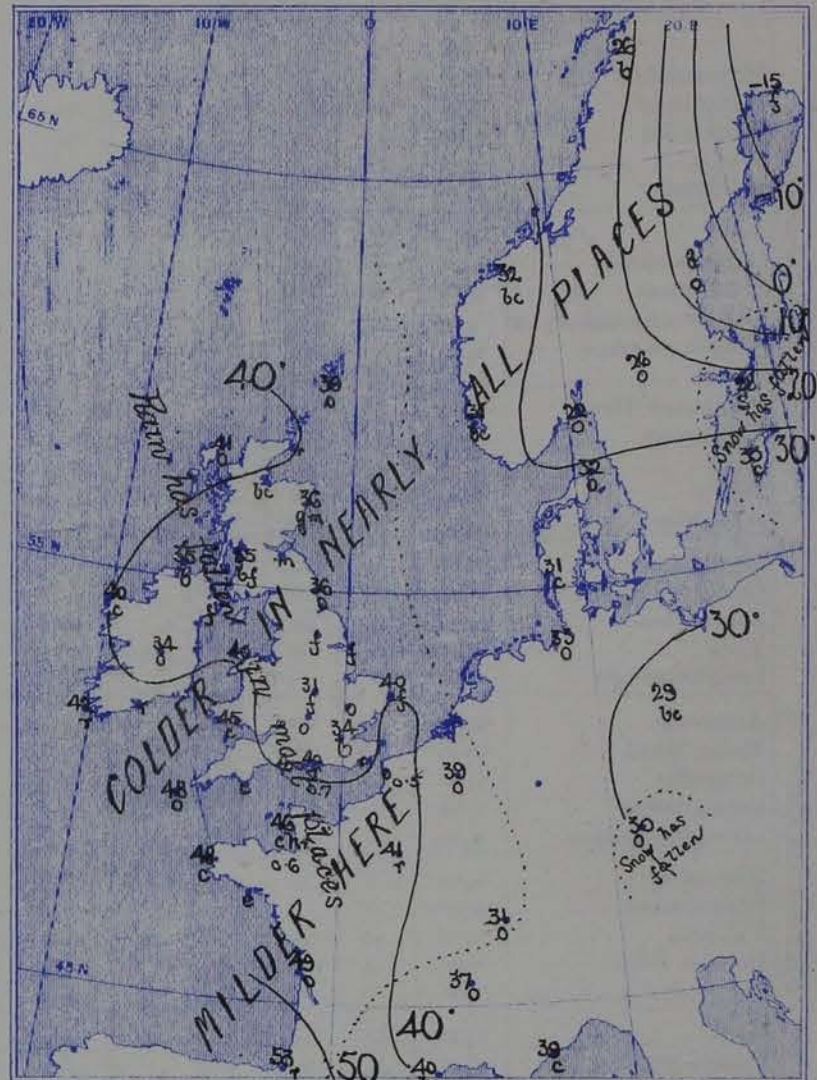


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards over the southern part of the Spanish Peninsula; 30.1 in: and upwards in Lapland.  
 Lowest, 29.0 in: and less, in a depression lying to the westward of our Islands.  
 Gradients moderate or slight generally, but rather steep over the Bay of Biscay and Spain and also over the northern part of the North Sea.  
 Barometer falling over Western Europe generally, but rising at some of the Swedish stations.

## TEMPERATURE

Highest, 55° at Lubeck, 53° at Bismarck, 49° at Rochefort, and 48° at Seilly, Brest, and Lorient.  
 Lowest, -15° F. at Haparanda, +8° at Helsingfors and 26° at Bodo and Karlsbad; lowest in our Islands 31° at Kinn and Loughborough.  
 Frost again occurred last night in many parts of the United Kingdom; at Loughborough the thermometer on the grass fell to 25° and in London to 33°.

## WIND

S over the greater part of our Islands and fresh to strong in force in the south of Ireland and the extreme north of Scotland with a gale at Loughborough Head.  
 Fresh to strong from the W. in the west of France; E or SE in most other parts of the Continent; and strong in force on the Norwegian coast.

## WEATHER

Cloudy and changeable over Western Europe as a whole, with rain in the northeast of Scotland, the south of Ireland, the eastern parts of the English Channel, as well as at Paris and Bismarck.  
 Foggy over the eastern and central parts of England, fine in the west of Norway and also in the extreme south of France.  
 Rain fell yesterday in nearly all parts of Western Europe, the largest amounts being 0.8 in: at Lorient, 0.7 in: at Hart Castle, and 0.6 in: at Jersey.

## SEA

High off the northeast of Scotland, and rough or rather so on our western and south-western coasts generally as well as in the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED.

## WARNINGS

The South Cone is still flying on all our coasts.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.		THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes ...	29.80	35	32	E	2	b	2	Valencia ...	29.30	46	42	SW	3	bcp	5	
Sumburgh Head ...	29.42	41	37	SSE	6	o	6	Scilly ...	29.43	47	44	WSW	4	cg	5	
Stornoway ...	29.03	44	43	SSE	7	o	6	Jersey ...	29.53	51	50	SSW	5	c	5	
Aberdeen ...	29.34	39	38	SSE	8	org	7	Hurst Castle ...	29.46	49	48	SSW	4	cm	4	
Shields ...	29.41	36	36	S	4	org	3	Dungeness ...	29.58	41	41	S	6	r	5	
Ardrossan ...	29.21	46	46	SSW	6	e	4	North Foreland	29.59	40	38	SSE	6	r	4	
Malin Head ...	29.12	45	44	SW	4	bc	3	London (Westminster)	29.50	42	41	S	4	or	#	
Belmullet ...	29.21	44	41	WSW	4	bc	#	Yarmouth ...	29.60	41	38	SSE	5	e	4	
Holyhead ...	29.31	47	44	WSW	4	cp	4	Rocheport ...	29.85	44	42	S	4	r	#	

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

Weather in morning dull in our Islands, with rain at many of the English and Irish stations, as well as in the northwest of France. Fine over the Netherlands and the central and southern part of France, as well as in Norway, and the north of Sweden; cloudy as dull in other parts of the Continent, with rain at Florence, Trieste, and Malta and also at Nisby; snow falling at St. Petersburg, Riga, Soinemiinde and Munich. Rain falling later over nearly the whole of Western Europe, and snow in the north of England, as well as in the south of Sweden, the Netherlands and the north of France.

Temperature risen in our Islands, but fallen at most of the Continental stations. Morning readings highest 57° at Nemours, Oram and Algiers, 55° at Malta, and 53° at Lisbon; touching 50° in the southwest coast of England and the northwest coast of France. Lowest (1) 6° at Kaspavanda, 7° at Uleaborg and Kuopio, and 13° at Archangel; (2) 19° at Hermannstadt; lowest in our Islands 33° at Cambridge and 34° at Yarmouth. Daily maxima below 40° in the north of England, and below 45° in most other parts of Great Britain; thermometer exceeding 50° in the Scilly and Channel Islands, as well as in the west and south of France and reaching 51° at Lisbon. Frost occurring in many parts of Great Britain at night.

Wind strong from the SW<sup>nd</sup> in the southwest of our Islands and the northwest of France; S in most other parts of the United Kingdom and France, with a gale on our north and northwest coasts. E or NE in Finland and Scandinavia, and strong in force in the south of Sweden; NW or W in Germany. S in the central and southern part of Russia. Calm in Austria; E or SE in Italy, NW in the extreme south of France. Moderating later on our western coast, but increasing to a strong gale from the SE<sup>nd</sup> in the east of Scotland.

Barometer highest 30.31 in. at Lisbon; 30.1 in. and upwards in an anticyclone extending from the Spanish Peninsula over the greater part of France, and also in another system over Turkey and the southern part of Russia. Lowest 29.1 in. and less, in a depression with its centre lying to the westward of Scotland; 29.5 in. and less, in another disturbance over the southern part of the Baltic. Former depression subsequently moving northwards, but secondary systems forming over 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.

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# DAILY WEATHER REPORT

for 8 a.m. on *Monday, 2<sup>nd</sup> January,* 1899  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.	
				At 32° and M.S.L.	Dry Bulb.		Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.					Dirac.	Force (0 to 12.)		Max.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	30.12	-5	N	2	b	30.11	- .11	-4	-5	+ .11	N	2	b	#	b	#	9	-15	-	
	Hernösand ...	30.02	10	N	4	0	29.99	- .06	10	10	+ .12	NW	4	0	#	0	#	12	1	-	
	Stockholm ...	29.78	29	NE	2	0	29.66	- .11	28	27	0	ENE	8	0	#	0	#	30	25	-	
	Wisby ...	29.69	31	SE	4	bc	29.51	- .18	33	33	0	E	4	0	#	bc	#	34	28	0.12	
	Karlstad ...	29.73	29	NE	4	0	29.57	- .23	27	26	+ .1	NE	6	S	#	0	#	#	#	-	
	Bodö ...	29.90	25	E	6	b	29.92	+ .02	21	19	- .5	E	7	b	3	b	#	27	21	-	
	Christiansund ...	29.62	31	ESE	5	b	29.43	- .19	31	30	- .1	SE	1	b	4	b	#	32	28	-	
	Skudesnaes ...	29.37	33	E	6	c	29.17	- .20	36	32	+ .5	E	8	0	4	c	#	36	28	#	
	Færder (Christiania Fjord)	29.66	31	NE	7	0	29.43	- .23	31	30	+ .9	NNE	8	0	3	0	#	31	21	-	
	Skagen (The Scaw)	29.57	34	SE	4	0	29.26	- .31	34	34	+ .2	ESE	5	S	1	0	#	36	32	-	
BRITISH ISLANDS.	Fanö ...	29.15	34	ESE	6	r	28.89	- .26	34	34	+ .3	ESE	6	0	#	r	#	34	30	0.08	
	Sumburgh Head	29.09	39	SSE	8	r	28.88	- .21	39	39	0	SE	8	r	9	r	#	40	37	0.34	
	Stornoway ...	28.83	42	SE	3	b	28.64	- .19	42	41	+ .1	ESE	4	c	4	0.6	0.3	44	36	-	
	Wick ...	28.80	42	SE	7	0	28.72	- .08	43	42	0	SE	8	T	8	0	#	43	38	0.40	
	Nairn ...	28.88	36	SE	1	c	28.64	- .24	37	35	+ .6	E	1	bc	1	c	#	38	28	0.01	
	Aberdeen ...	28.93	40	SSE	3	og	28.70	- .23	39	38	+ .3	SE	9	oggr	7	oggr	0.0	41	36	0.34	
	Leith ...	28.90	36	SSE	1	bc	28.64	- .26	36	34	0	SSW	1	od	#	bc	#	41	32	0.02	
	Shields ...	28.91	37	SSW	2	0	28.71	- .20	37	36	+ .1	SW	3	c	2	0.7	#	40	34	0.08	
	Spurn Head ...	28.94	39	SE	4	0	28.78	- .16	36	35	0	WSW	3	b	3	f, r	#	39	34	0.18	
	York ...	28.93	34	SE	2	S	28.80	- .13	35	34	+ .1	SW	1	bc	#	f, s	0.0	36	33	0.15	
GERMANY & HOLLAND.	Loughborough ...	28.93	36	SSE	3	r	28.84	- .09	35	33	+ .4	WSW	2	bc	#	f, c, r, b	#	39	30	0.16	
	Ardrossan ...	28.79	40	NE	3	of	28.58	- .21	42	42	+ .7	SW	7	op	4	of	#	42	34	0.14	
	Malin Head ...	28.65	36	SE	5	or sp	28.51	- .18	40	39	+ .5	NW	8	og	6	0.7spg	#	42	29	0.32	
	Belmullet ...	28.72	42	N	11	or q	28.96	- .04	40	38	0	NW	10	og	#	og	#	43	36	0.70	
	Donaghadee ...	28.74	40	SSE	5	r	28.71	- .03	35	35	+ .2	WSW	4	c	2	r	#	42	33	0.41	
	Liverpool (Biston)	28.85	36	SE	4	r	28.83	- .02	40	37	+ .5	WSW	4	o	5	ogp	#	41	34	0.16	
	Holyhead ...	28.78	42	WSW	6	r	28.84	- .06	41	38	+ .1	N	8	cq	6	r	#	44	38	0.29	
	Parsonstown ...	28.87	41	N	3	c	28.98	- .11	35	33	+ .1	SW	1	os	#	0.7hp	0.0	42	32	0.18	
	Valencia ...	29.07	45	WSW	8	ohq	29.20	- .13	43	36	+ .1	N	9	og	8	ohq	0.3	47	35	0.27	
	Roche's Point ...	29.06	41	NW	5	bc	29.13	+ .07	37	36	- .6	NW	7	c	5	og, r, sp	#	46	35	0.55	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	28.96	45	NW	7	b	29.00	- .04	44	42	- .1	NW	8	og	6	0.7	0.3	48	40	0.11	
	Scilly ...	29.16	49	NW	8	okl	29.13	- .03	45	41	- .3	NW	9	og	7	0.7, kl	0.0	52	39	0.80	
	Prawle Point ...	29.13	45	WSW	7	c	29.04	- .10	40	38	- .1	N	6	og	4	gr, glt	#	47	37	0.60	
	Jersey (St. Aubin's)	29.22	51	N	7	bc kl	29.10	- .12	45	41	- .1	N	8	cym	6	og, kl	#	51	43	1.32	
	Hurst Castle ...	29.03	44	NW	5	b	28.94	- .09	40	39	0	N	5	cq	3	c, b, q, r	#	48	36	0.55	
	Dungeness ...	29.04	44	SSW	6	0	28.89	- .15	36	36	- .6	NW	3	r	3	c, og	#	47	35	0.38	
	North Foreland															#					
	London (Brixton)	28.98	43	S	3	or	28.88	- .10	37	36	+ .3	WSW	2	c	#	bc, or, b	0.0	43	34	0.05	
	Oxford ...	28.97	39	SW	2	b	28.88	- .09	37	35	+ .2	SW	3	og	#	0.7, b	#	41	35	0.12	
	Cambridge ...	28.97	39	SSE	2	og	28.86	- .11	34	34	- .3	SSW	2	og	#	f, r, q	0.0	41	33	0.16	
PENIN- SULA.	Yarmouth ...	29.10	39	SSW	2	c	28.85	- .25	36	35	- .4	WSW	2	bc	3	c	#	41	34	0.34	
	Cuxhaven ...	29.42	34	SSE	3	0	28.78	- .15	37	36	+ .4	SSW	5	0	#	S, r	#	37	33	0.20	
	Berlin ...	29.55	32	SE	4	0	29.13	- .42	35	35	+ .6	S	3	0	#	0	#	37	29	0.12	
	Wiesbaden ...	#	#	#	#	#	29.18	- .04	41	39		SW	2	0	#	#	#	41	34	0.89	
	Munich ...	29.69	33	SE	1	0	29.45	- .24	42	39	+ .12	SW	6	0	#	0	#	42	28	0.04	
	The Helder ...															#					
	Brussels ...	#	#	#	#	#	28.98	- .42	37	36	- .2	S	4	T	#	T	#	43	35	0.32	
	Cape Gris Nez ...	#	45	N	7	T	#	#	37	34	- .4	E	2	S	2	T	#	43	32	0.43	
	Paris ...	29.33	44	SSW	1	T	29.08	- .25	48	46	+ .7	NW	6	T	#	T	#	48	41	0.16	
	Brest ...	#	51	WSW	6	0	#	#	50	46	+ .2	NW	6	0	6	0	#	54	43	0.16	
PENIN- SULA.	Lorient ...															#					
	Rocheport ...	29.65	54	NW	6	r	29.48	- .17	55	52	+ .6	NW	9	0	#	0.7	#	55	46	0.16	
	Belfort ...	29.73	38	WSW	7	0	29.38	- .35	39	39	+ .8	SSW	8	T	#	0	#	42	31	0.12	
	Lyons ...	29.83	41	SSW	1	0	29.62	- .21	45	42	+ .8	S	1	0	#	0	#	50	37	0.12	
	Nice ...	29.76	46	NW	2	b	29.70	- .06	47	43	+ .8	SW	2	c	6	6	#	48	39	-	
	Perpignan ...	29.96	52	NW	3	bc	29.86	+ .10	44	40	+ .4	SW	2	bc	#	bc	#	56	40	-	
	Biarritz ...	29.91	55	WSW	5	r	29.74	- .17	57	50	+ .4	SW	5	0	6	r	#	57	46	0.28	
	Corunna ...															#					
	Lisbon ...	30.34	55	WSW	3	0	30.36	+ .02	55	53	0	NW	3	bc	#	b	#	59	52	0.04	
	Azores (P. Delgada)	30.48	58	N	2	b	30.49	+ .01	55	52	0	N	2	6	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 0.7 hrs.



# WEATHER CHARTS

FOR Monday, 2<sup>nd</sup> January, 1899.

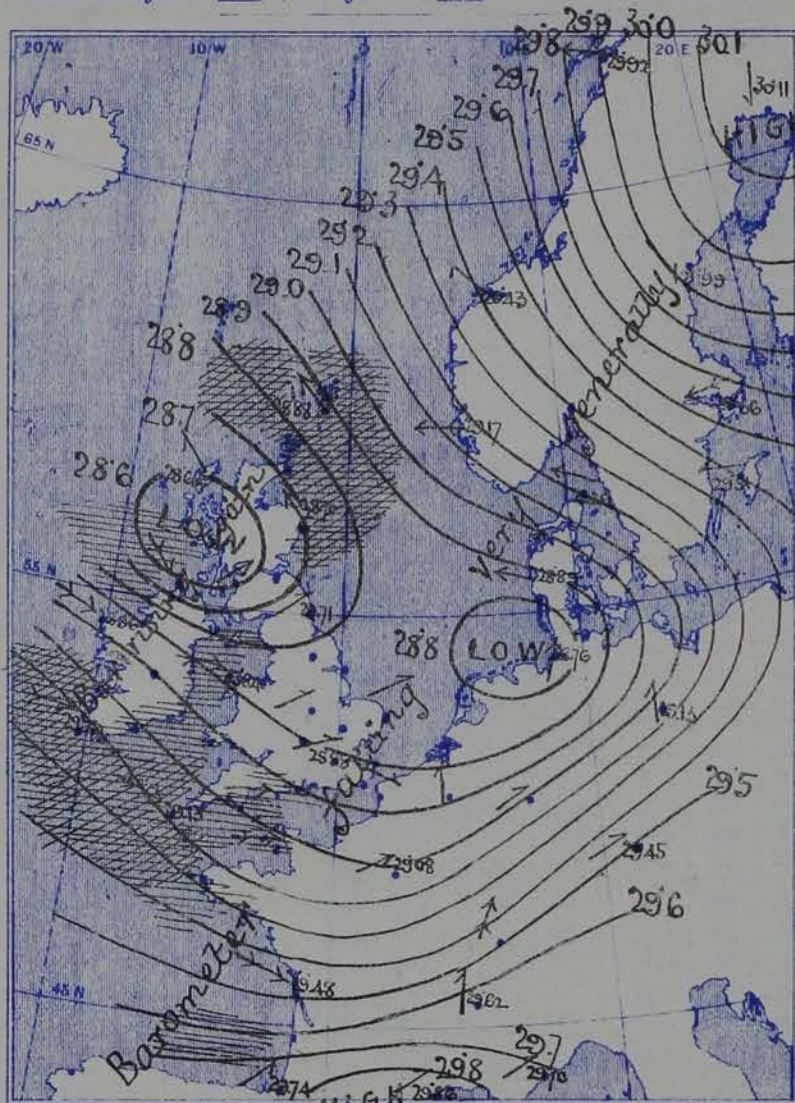
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ : High ≡

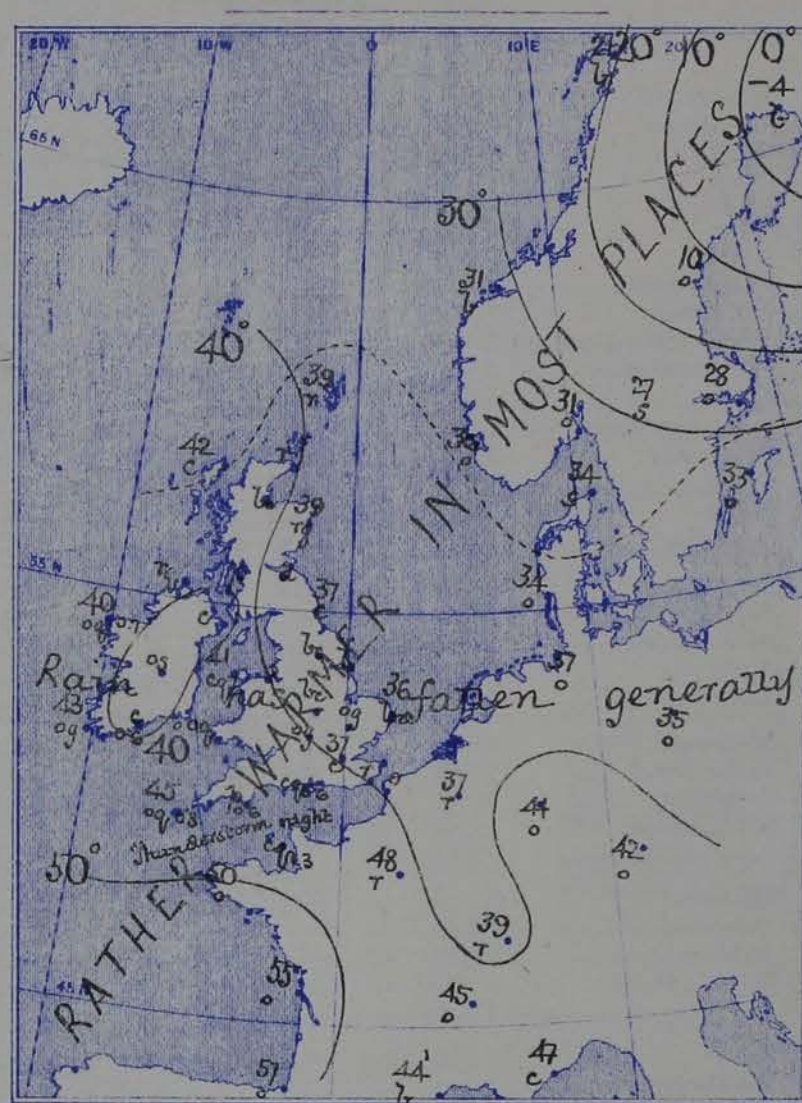


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	5.48	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	2.90	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. in Lapland; 29.7 in. and upwards in the extreme south of France.  
 Lowest, 28.6 in. and less in a depression with its centre over the west of Scotland; 28.8 in. and less, in another disturbance with its centre near the Ligurian Sea.  
 Gradients steep over the western parts both of our Islands and the Continent, moderate or slight elsewhere.  
 Barometer rising in the west and north of our Islands, but falling elsewhere.

## TEMPERATURE

Highest, 57° at Biarritz, 55° at Rochefort, 50° at Brest, 47° at Nice, and 45° at Seilly, Jersey, and Lyons.  
 Lowest, -4° F. at Haparanda, +10° at Helsingfors, and 21° at Rode; lowest in our Islands 34° at Cambridge, and 35° at York, Loughborough, Banff, and Aberdeen.  
 The maxima registered yesterday were below 40° at several of our northern stations, and below 45° on all but our southern coasts; in the Seilly and Channel Islands the thermometer exceeded 50°.

## WIND

Strong to a gale from the W<sup>nd</sup> or NW<sup>nd</sup> on the west coasts of our Islands and France; light to moderate from the SW<sup>nd</sup> on the eastern and central parts of England.  
 Light to fresh from the S<sup>nd</sup> or SW<sup>nd</sup> over Central France, Germany, and the Netherlands.  
 Strong to a gale from the E<sup>nd</sup> or NE<sup>nd</sup> in the south of Scandinavia, and from the SE<sup>nd</sup> in the north and east of Scotland.

## WEATHER

Cloudy and unsettled over Western Europe as a whole, with rain or passing showers in many parts of our Islands, France, and Germany, and snow at Passaricourt, Cape Gris Nez, Rügen and Karlsbad.  
 Fine in the north and east of England, and also over the northern parts of Scandinavia.  
 Since yesterday morning rain or snow has fallen over Western Europe generally, the largest amounts being 1.3 in. at Jersey, 0.8 in. at Seilly, and 0.7 in. at Bilmullet. Thunderstorms occurred last evening at Seilly and Jersey, and lightning was seen at Bilmullet.

## SEA

Very high off the northeast of Scotland, and also at Valencia (Ireland), rough on our southwest, west, and north coasts generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north appears to be moving slowly northeastwards. The weather over our Islands seems likely to remain exceedingly unsettled for a time with gales on many parts of our coasts.

# FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

† 0	SCOTLAND NORTH	SE <sup>y</sup> gales and strong winds; squally, some rain or sleet.
† 1	SCOTLAND EAST	
2	ENGLAND N.E.	SW <sup>y</sup> and W <sup>y</sup> winds, moderate; fine at first, showery later, possibly snow.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	W <sup>y</sup> winds, strong to a gale on coast; changeable, some cold showers.
† 5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

† 6	SCOTLAND WEST	W <sup>y</sup> and NW <sup>y</sup> gales and strong winds; squally, showery.
† 7	ENGLAND N.W.	
† 8	ENGLAND S.W.	
† 9	IRELAND NORTH	
† 10	IRELAND SOUTH	

## WARNINGS

At 7-10 pm yesterday to districts 0, 1, 5, 6, 7, 9 and 10, and 10-20 am today to district 8 "Keep up Cone"

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.55	34	32	SE	6	c	2	Valencia							
Sumburgh Head								Scilly							
Stornoway	28.92	44	42	SW	3	c	3	Jersey	29.35	46	45	SSE	4	r	4
Aberdeen								Hurst Castle							
Shields								Dungeness	29.24	46	44	SSW	5	c	4
Ardrossan								North Foreland							
Malin Head	28.78	36	35	SE	3	o	3	London (Westminster)							#
Belmullet	28.71	40	40	W	8	r	#	Yarmouth							
Holyhead								Rochefort	29.72	49	46	NW	6	o	#

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

Continental Information not received.

### SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 25<sup>TH</sup> TO THE 31<sup>ST</sup> DEC<sup>R</sup> 1898.

At the beginning of the week a large anticyclone still lay over the central and southern part of Europe, while large depressions continued to travel eastwards across the northern parts of Scandinavia and Russia. The latter systems occasioned strong winds or falls from the SW<sup>2</sup> and frequent rains in the west and north of our Islands and also over the northern parts of the Continent, but in other regions the weather was mostly fair and dry with sharp frosts over the central countries.

After the 26<sup>th</sup> the anticyclone receded further southward and as a result of this the cyclonic disturbances which continued to advance from the Atlantic pursued a more southerly track, their centres passing in some cases directly over our Islands. During the remainder of the week three depressions of considerable importance were observed. The first entered the north-west coast north of Scotland on the 27<sup>th</sup> (the barometer at Stornoway falling at 7 p.m. to a minimum of 28.19 in.) and occasioned SW to W gales and heavy rain over nearly the whole of northwestern and northern Europe, the gale being very severe in Scotland and the north of Ireland. The second depression came still further southwards, its centre advancing eastwards across Ireland and England on the 29<sup>th</sup> and afterwards passing on to Denmark and the Baltic. On this occasion the gale was confined to our southern and the French coasts, but rain fell over the whole of western and central Europe, the amounts being large in many parts of France. In the case of this disturbance the wind in our Islands veered to the NW<sup>2</sup> with fine weather, and on the night of the 30<sup>th</sup> a sharp frost was experienced over Great Britain. The third depression appeared off our north-west coast early on the 31<sup>st</sup> and remained in that position till the close of the week, the wind backing to the SW<sup>2</sup> or S<sup>2</sup> over nearly the whole of northwestern Europe, and increasing to a gale on our western and northern coasts, with considerable falls of rain in places.

### 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 *Tuesday 3<sup>rd</sup> January, 1899.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				At 32° and M.S.L.	Dry Bulb.		Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Dirac.	Force (0 to 12.)	Weather.	Max.	Min.
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
Haparanda ...	...	30.12	11	Z	0	0	30.20	+ .09	12	12	+ 16	N	2	0	#	0	#	12	-11	-	
Hernösand ...	...	29.94	19	NE	6	S	30.04	+ .05	20	19	+ 10	NW	6	0	#	S	#	20	9	0.08	
Stockholm ...	...	29.56	24	NE	8	0	29.73	+ .07	22	20	- 6	NE	8	0	#	0	#	30	21	-	
Wisby ...	...	29.31	30	ENE	8	S	29.47	- .04	39	?	+ 6	E	8	S	#	S	#	39	28	0.59	
Karlstad ...	...	29.52	22	NE	8	C	29.78	+ .21	21	20	- 6	NE	8	C	#	C	#	#	#	-	
Bodö ...	...	30.04	21	E	4	b	30.19	+ .27	18	15	- 3	E	4	b	1	b	#	23	16	-	
Christiansund ...	...	29.57	28	SE	8	bc	29.81	+ .38	23	22	- 8	ESE	8	b	4	bc	#	31	23	-	
Skudesnaes ...	...	29.28	34	E	10	bc	29.72	+ .55	29	27	- 7	ENE	6	C	4	C, bc	#	36	27	#	
Færder (Christiania Fjord)	...	29.42	27	ENE	4	0	29.76	+ .33	24	23	- 7	NNE	8	0	4	0	#	31	23	-	
Skagen (The Scaw)	...	29.19	30	E	5	S	29.62	+ .36	25	25	- 9	ENE	8	S	3	S	#	34	25	-	
Fanö ...	...	28.90	34	ESE	4	r	29.43	+ .54	31	31	- 3	NE	5	C	#	r	#	36	31	0.16	
Sumburgh Head	...	29.20	39	SE	5	0	29.60	+ .72	37	36	- 2	S	2	C	5	0	#	40	35	-	
Stornoway ...	...	29.01	43	SE	4	C	29.53	+ .89	38	37	- 4	NW	2	C	2	C	#	43	34	-	
Wick ...	...	29.10	41	SE	6	0	29.59	+ .87	40	38	- 3	SE	6	CW	6	0	#	45	36	0.12	
Nairn ...	...	No observations					29.58	+ .94	32	31	- 5	Z	0	0	1	?	#	39	29	-	
Aberdeen ...	...	29.03	41	E	8	Cg	29.67	+ .97	42	37	+ 1	S	3	Og	6	rs. Cg	0.0	41	38	0.47	
Leith ...	...	28.89	39	Z	0	0	29.67	+ 1.03	38	36	+ 2	Z	0	W	#	0	#	41	35	0.09	
Shields ...	...	28.40	38	W	3	CW	29.64	+ .93	41	39	+ 4	NNE	3	Cp	4	C, CW, r	#	41	34	0.11	
Spurn Head ...	...	28.87	39	WSW	4	0	29.64	+ .86	41	39	+ 5	N	5	Cg	6	S, Cp	#	41	35	0.05	
York ...	...	28.85	37	WSW	1	b	29.66	+ .86	35	34	0	NW	1	bc	#	S, C, b	0.2	40	33	0.04	
Loughborough ...	...	28.96	35	W	5	r	29.68	+ .84	36	36	+ 1	W	2	bc	#	C, O, r, C	#	42	35	0.22	
Ardrossan ...	...	29.05	40	N	3	b	29.67	+ 1.09	40	40	- 2	WNW	1	C	1	bc, b	#	42	36	0.06	
Malin Head ...	...	29.08	42	NW	10	rhg	29.68	+ 1.17	40	37	0	SSW	3	Cg	3	rhg	#	43	?	0.28	
Belmullet ...	...	29.44	40	WNW	7	bc, rhg	29.69	+ .73	42	41	+ 2	SE	5	0	#	bc, bc, rhg	#	43	38	0.04	
Donaghadee ...	...	29.10	38	WNW	9	r	29.73	+ 1.02	36	35	+ 1	W	4	bc	3	r	#	39	34	0.29	
Liverpool (Bidston)	...	28.94	40	W	11	r	29.74	+ .91	41	39	+ 1	WNW	5	0	6	r	#	43	37	0.29	
Holyhead ...	...	29.09	43	NW	10	C	29.71	+ .93	43	40	+ 2	NW	6	C	5	rhg, C	#	43	38	0.04	
Parsonstown ...	...	29.41	35	W	2	b	29.81	+ .83	37	36	+ 2	Z	0	or	#	b	2.8	39	33	0.08	
Valencia ...	...	29.61	43	NW	7	or, rhg	29.71	+ .57	46	45	+ 3	SSE	5	rg	6	Cp, rhg	1.7	46	35	0.11	
Roche's Point ...	...	29.52	39	NW	5	bc, resp	29.83	+ .70	44	44	+ 7	SSW	4	r	4	bc, resp	#	44	36	0.10	
Pembroke (St. Ann's Hd.)	...	29.31	50	NW	8	C	29.87	+ .87	45	41	+ 1	NW	5	bc	5	C	0.5	50	42	-	
Scilly ...	...	29.54	44	NW	8	Og	29.88	+ .75	45	45	+ 3	W	4	0	7	rhg, Og	2.4	48	40	0.09	
Prawle Point ...	...	29.24	40	WNW	6	C	29.87	+ .83	40	37	0	WNW	2	C	2	rhg	#	41	35	0.02	
Jersey (St. Aubin's)	...	29.40	44	NNW	7	Cg	29.83	+ .73	45	40	0	NW	5	C	5	Cg, rhg	#	51	39	0.21	
Hurst Castle ...	...	29.26	41	WNW	6	bc, resp	29.88	+ .84	39	36	- 1	WNW	4	bc	3	rhg, bc, resp	#	42	38	0.03	
Dungeness ...	...	29.10	38	W	5	bc, rhg	29.59	+ .70	41	40	+ 5	NW	6	Cg	5	bc, bc, rhg	#	42	35	0.03	
North Foreland	...																#				
London (Brixton) ...	...	29.12	37	WNW	4	Og	29.69	+ .81	41	38	+ 4	NW	4	b	#	rhg, b, Og	1.7	42	35	0.04	
Oxford ...	...	29.15	38	WNW	7	r	29.75	+ .87	40	36	+ 3	WNW	3	Og	#	C, r	#	42	35	0.02	
Cambridge ...	...	29.01	39	WSW	5	Og	29.65	+ .79	37	36	+ 3	NW	3	b	#	bc, Og	2.7	43	33	0.07	
Yarmouth ...	...	28.92	38	W	5	0	29.59	+ .74	41	39	+ 5	NNW	4	b	4	rhg, 0	#	41	35	0.08	
Cuxhaven ...	...	28.78	37	SW	3	0	29.25	+ .47	36	35	- 1	N	1	0	#	T, 0	#	39	34	0.04	
Berlin ...	...	28.75	34	ESE	4	S	29.20	+ .07	35	34	0	W	4	0	#	S	#	39	32	0.39	
Wiesbaden ...	...	#	#	#	#	#	29.30	+ .12	36	35	- 5	SW	2	0	#	#	#	43	34	0.17	
Munich ...	...	29.23	35	SW	7	C	29.38	- .07	32	31	- 10	W	5	S	#	C	#	45	30	0.32	
The Helder ...	...																#				
Brussels ...	...	#	#	#	#	#	29.39	+ .41	39	38	+ 2	WNW	5	C	#	b	#	40	32	0.59	
Cape Gris Nez ...	...	?	40	NW	8	C	?	?	45	40	+ 8	N	7	bc	7	C	#	45	37	0.28	
Paris ...	...	29.22	37	WNW	6	r	29.60	+ .52	41	39	- 7	WNW	5	0	#	r	#	49	35	0.39	
Brest ...	...	29.58	45	NW	7	0	29.90	?	49	46	- 1	NW	4	0	5	0	#	50	34	0.12	
Lorient ...	...	29.62	45	NW	7	r	29.93	+ .67	48	48	0	NW	5	C	5	r	#	54	41	0.12	
Rochefort ...	...	29.74	46	WNW	8	0	29.93	+ .45	48	46	- 7	NNW	4	C	#	0	#	55	43	0.25	
Belfort ...	...	29.30	37	W	8	0	29.47	+ .09	32	31	- 7	W	7	S	#	0	#	41	31	0.16	
Lyons ...	...	29.61	41	WNW	2	0	29.75	+ .13	38	34	- 7	WNW	3	0	#	0	#	55	37	0.28	
Nice ...	...	29.33	49	W	7	bc	29.48	- .22	40	32	- 7	NW	8	b	6	bc	#	54	37	-	
Perpignan ...	...	29.69	56	NW	5	bc	29.91	+ .05	40	39	- 4	NW	3	r	#	bc	#	69	38	1.18	
Biarritz ...	...	29.87	56	W	8	r	29.94	+ .20	53	53	- 4	NW	5	r	7	r	#	59	46	0.51	
Corunna ...	...																#				
Lisbon ...	...	30.43	57	W	4	C	30.44	+ .08	55	54	0	NNW	2	0	#	C	#	59	54	-	
Azores (P. Delgada)	...	30.49	57	W	2	bc	30.41	- .08	60	57	+ 5	S	3	C	2	bc	#	64	55	-	

For Explanation of Columns, see bottom of last page.

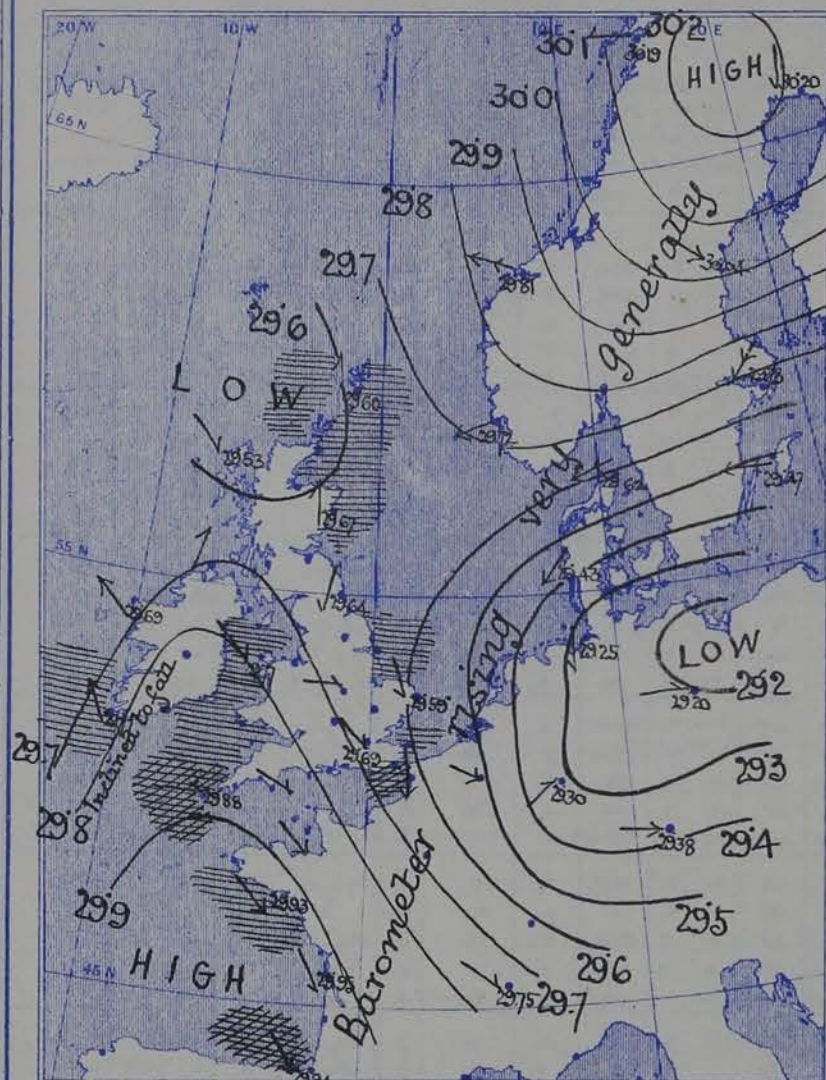
† Received too late for Insertion in Charts on next page.

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

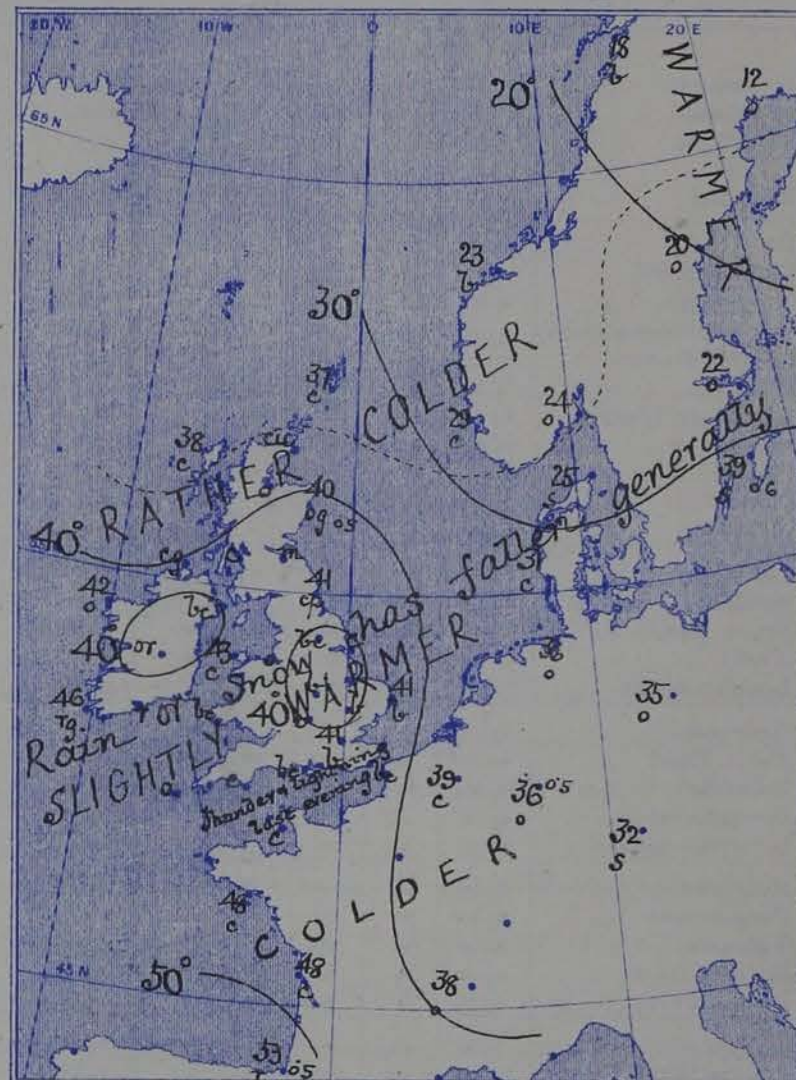
Bright Sunshine yesterday Southport... 0.1 hrs;



FOR Tuesday, 3<sup>rd</sup> January, 1899.

SEA—Rough  : High 

**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.



STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29·676	39·4	38·0	42·5	35·2	51	1880, 82, 87	19	1881	3·85	—	—
Stornoway	29·688	39·1	38·2	42·9	34·0	55	1890	11	1881	5·17	29·2	13
Wick	29·715	37·9	36·6	42·0	32·9	57	1889	—	1881	2·24	—	—
Nairn	29·744	36·9	35·4	42·0	32·2	59	1887	5	1881, 95	1·98	—	—
Aberdeen	29·786	36·9	35·2	42·0	32·8	58	1889, 92	4	1881	2·38	52·6	23
Leith	29·821	38·2	36·7	43·9	33·3	57	1872, 80, 88,	9	1881	1·78	—	—
Shields	29·871	37·7	36·5	42·7	33·5	58	1880	6	1881	1·72	—	—
Spurn Head	29·911	37·3	36·3	41·2	34·0	54*	1884, 88	13*	1881	1·38	—	—
York	29·922	36·2	35·2	42·2	31·9	58	1872	3	1881	1·84	30·2	12
Loughborough	29·958	35·8	34·8	42·5	31·7	57*	1888, 94	2*	1881	2·01	—	—
Ardrrossan	29·834	39·5	38·4	43·7	35·7	53	1873, 75, 92	12	1881	3·89	—	—
Malin Head	29·795	40·6	39·0	45·0	37·6	—	—	—	—	—	—	—
Belmullet	29·830	42·3	41·0	46·4	38·7	—	—	—	—	5·48	—	—
Donaghadee	29·854	39·7	38·9	44·2	35·8	55	1875, 80, 89, 92	14	1881	2·90	—	—
Holyhead	29·897	41·3	40·0	45·1	38·2	55	1873	20	1894	3·26	—	—
Liverpool	29·918	38·1	36·5	43·0	34·7	57	1877, 90	9	1881	2·18	—	—
Parsonstown	29·895	38·3	37·3	45·0	33·6	57	1880	6	1881, 94	2·99	50·8	21
Valencia	29·894	44·0	42·7	49·0	39·8	56	1876, 78	20	1894	6·31	56·1	22
Roche's Point	29·909	42·7	41·4	47·3	38·9	57	1889	20	1894	5·33	—	—
Penbroke	29·932	42·2	40·8	45·1	39·0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3·71	53·6	21
Scilly	29·960	46·0	44·4	48·5	42·3	55	1875, 76, 77, 82, 83, 90	25	1894	3·63	—	—
Prawle Point	29·991	41·3	40·3	45·7	37·0	56*	1883, 95	17*	1881	2·92	—	—
Jersey	30·012	41·5	40·0	45·6	37·9	57	1877	12	1891	3·21	71·2	27
Hurst Castle	29·991	39·6	38·8	44·4	35·6	56	1876, 83, 90	15	1881	2·86	—	—
Dover	29·992	38·4	37·4	42·9	34·7	55	1878	11	1893	2·47	—	—
LONDON	29·991	37·1	36·0	43·4	33·2	58	1876	9	1881	2·06	19·3†	8†
Oxford	29·987	36·4	35·4	42·5	32·9	56	1877, 90	7	1881	2·16	47·1	19
Cambridge	29·979	35·6	34·8	42·7	30·9	59	1878, 80	4	1881	1·52	49·8	20
Yarmouth	29·960	37·0	36·1	40·9	33·0	55	1878, 84	10	1881	1·96	—	—

+ The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.20 ins. at Haparanda; 30.0 ins. and upwards over the N<sup>m</sup> parts of Scandinavia generally; 29.9 ins. and upwards over the Bay of Biscay.

Lowest 29.2 ins. and less in a depression with its centre over N. Germany, 29.6 ins. and less in another disturbance off the N. of Scotland; 29.7 ins. and less in a third lying to the W<sup>m</sup> of Ireland.

Gradients slight over our islands and France, but rather steep over the Baltic, Denmark & W. Germany. Barometer rising generally, but inclined to fall again at Valencia (Ireland).

## TEMPERATURE

Highest 53° at Biarritz, 48° at Sully, Lorient and Rochefort, 46° at Valencia (Ireland) and 45° at Pembroke. Lowest 12° at Haparanda, 18° at Bodø, 20° at Helsingfors, and 21° at Karlstad, lowest in our islands, 32° at Nain, and 35° at York.

The maxima registered yesterday were below 45° on all but our extreme S.W. coast, and below 40° at some of our northern stations.

## WIND

Light to fresh from the NW<sup>m</sup> over England and France and from the W<sup>m</sup> in Germany; strong to a gale from the E<sup>m</sup> or NE<sup>m</sup> in Denmark and all the more southern parts of Scandinavia.

NW<sup>m</sup> in the west of Scotland, but S<sup>m</sup> or SE<sup>m</sup> in the east of that country.

Moderate to fresh from the S<sup>m</sup> or SE<sup>m</sup> in Ireland.

## WEATHER

Fine at many of the English stations and also in the W. of Norway.

Cloudy or dull in nearly all other parts of W<sup>m</sup> Europe, with rain in the S. of Ireland, as well as at Biarritz. Snow was falling at Skagen and Wisby and also at Munich.

Rain or snow fell yesterday in nearly all parts of W<sup>m</sup> Europe, the largest amounts reported being 0.6 in. at Wisby, and 0.5 in. at Aberdeen, Wiesbaden and Biarritz. Thunder and lightning occurred yesterday at Jersey, and lightning only at Hurst Castle and Dungeness.

## SEA

High at Sully, Cape Gris Nez and Biarritz, rough or rather so on nearly all coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday morning over the W. of Scotland is now moving away to the NW<sup>m</sup> of that country, while another disturbance which was afterwards developed over the North Sea is travelling E<sup>m</sup> across N. Germany. In Ireland, however, there are decided indications of the advance of yet another depression, so that rough squally weather seems likely to set in again shortly over a considerable part of the United Kingdom.

## FORECASTS

For the 24 hours ending at NOON on 4<sup>TH</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

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

SE winds increasing in force, dull, squally, some rain.

Same as No. 5.

NW winds backing later to the SW<sup>m</sup> or S<sup>m</sup>, and increasing in force, fair at first, then squally & rainy.

### DISTRICTS.

### FORECASTS.

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

Wind backing to the S<sup>m</sup> and increasing to a gale, dull, rainy.

S<sup>m</sup> and SE<sup>m</sup> gales, shifting later the W<sup>m</sup> or NW<sup>m</sup>, squally, rainy.

The South Cone is still flying in all districts excepting 2 and 3.

### WARNINGS

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.15	35	34	ENE	8	c	4	Valencia	29.45	42	37	NW	8	2pq	8
Sumburgh Head	29.06	40	37	SE	7	o	9	Scilly	29.38	44	41	WNW	9	chg	7
Stornoway	28.81	43	42	E	5	c	5	Jersey	29.28	41	39	WNW	7	chg	6
Aberdeen								Hurst Castle	29.14	40	39	W	6	pq	4
Shields	28.77	40	38	W	4	c	2	Dungeness	29.00	41	40	WNW	5	bc	4
Ardrossan	28.75	40	40	N	3	bc	3	North Foreland							
Malin Head	28.75	40	40	NW	10	chg	7	London (Westminster)	29.01	43	40	WNW	4	c	#
Belmullet	29.22	41	38	NW	10	bc	*	Yarmouth	28.88	37	35	WNW	5	ogrs	4
Holyhead	28.93	40	39	WNW	9	rmgq	7	Rochefort							#

## 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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" Weekly " " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on

Wednesday, 4<sup>th</sup> January,

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.				WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)					Max.	Min.	Rainfall.	
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.30	13	N	2	b	30.40	+20	8	7	-4	NE	4	C	#	b	#	16	1	-	
	Hernösand ...	30.22	17	NE	8	S	30.28	+24	12	12	-8	NE	6	S	#	S	#	26	12	0.20	
	Stockholm ...	29.96	18	NE	8	S	30.09	+36	16	15	-6	NE	6	O	#	S	#	25	16	-	
	Wisby ...	29.73	26	E	6	b	29.96	+49	24	?	-15	N	8	S	#	b	#	?	21	0.12	
	Karlstad ...	30.03	21	NE	4	O	30.17	+39	16	15	-5	NE	4	b	#	O	#	#	#	-	
	Bodö ...	30.31	19	E	4	b	30.27	+08	19	15	+1	E	6	b	2	b	#	19	14	-	
	Christiansund ...	29.92	23	ESE	5	b	29.85	+04	26	22	+3	SE	4	b	4	b	#	27	21	-	
	Skudesnaes ...	29.94	28	ESE	6	O	29.92	+20	25	25	-4	ESE	8	S	4	O	#	29	25	#	
	Færder (Christiania Fjord)	30.02	22	NNE	5	O	30.15	+39	21	18	-3	NE	4	O	2	O	#	24	21	-	
	Skagen (The Scaw)	29.99	25	NE	3	O	30.12	+50	24	23	-1	E NE	2	O	O	O	#	27	23	-	
BRITISH ISLANDS.	Fanö ...	29.98	27	NE	3	b	30.06	+63	27	25	-4	E	4	C	#	b	#	32	27	-	
	Sumburgh Head	29.50	41	S	4	r	29.60	-00	40	37	+3	N	3	C	5	C.T	#	42	34	0.27	
	Stornoway ...	29.27	44	SW	6	r	29.61	+08	40	39	+2	NW	3	O	3	O.T	#	44	34	0.05	
	Wick ...	29.44	41	SSW	5	C	29.56	-03	38	36	-2	SSW	3	C	4	C	#	44	35	0.05	
	Nairn ...	29.43	41	WSW	2	r	29.68	+10	37	35	+5	L	O	C	1	r	#	45	30	0.01	
	Aberdeen ...	29.60	40	SSW	5	og p q	29.74	+07	36	36	-4	SW	1	og m	4	og p	#	41	36	0.02	
	Leith ...	29.62	40	WSW	2	O	29.76	+09	42	39	+4	N	1	m	#	O	#	48	37	-	
	Shields ...	29.76	40	SW	2	O	29.82	+18	42	41	+1	SW	2	m	3	om.r	#	45	37	0.01	
	Spurn Head ...	29.87	40	NW	4	O	29.88	+24	43	42	+2	WSW	4	b	3	b.c.p	#	44	39	0.01	
	York ...	29.85	40	S	1	O	29.90	+24	44	43	+9	WSW	1	C	#	O.T	#	44	35	0.02	
GERMANY & HOLLAND.	Loughborough ...	29.91	41	SW	2	O	29.93	+25	44	43	+8	N	2	b.m.w	#	C.O.M.C	#	46	36	-	
	Ardrossan ...	29.61	44	SSW	5	d	29.72	+05	45	45	+5	SE	3	om	3	O.T	#	45	38	0.08	
	Malin Head ...	29.49	49	WSW	6	O.T q	29.57	-11	42	41	+2	SE	4	r	3	O.T q	#	51	37	0.18	
	Belmullet ...	29.69	51	N	5	O	29.59	-10	51	49	+9	WSW	8	b	#	O	#	52	42	0.05	
	Donaghadee ...	29.64	44	SW	5	O	29.75	+02	44	43	+8	SSW	4	C	2	O	#	44	34	0.02	
	Liverpool (Bidston)	29.84	41	S	2	O	29.90	+16	43	43	+5	SW	2	O	2	og p	#	51	40	-	
	Holyhead ...	29.78	46	SW	6	am	29.86	+09	49	48	+6	SSW	4	og m	3	g.p.d.m	#	50	40	0.11	
	Parsonstown ...	29.81	52	N	2	r	29.74	-07	52	50	+15	N	2	O	#	r	#	52	36	0.03	
	Valencia ...	29.88	54	SW	4	od	29.79	+02	53	52	+7	S	6	om	6	om.d	#	54	46	0.09	
	Roche's Point ...	29.86	52	N	3	C	29.90	+07	52	52	+8	WSW	4	r.m	4	C.T.M	#	53	44	0.07	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.94	51	WSW	6	r	29.94	+07	52	45	+7	WSW	6	og m	5	O.T	#	52	45	0.05	
	Scilly ...	29.96	52	WSW	3	m	30.04	+16	52	52	+4	SW	4	m	5	m	#	54	44	0.02	
	Prawle Point ...	30.01	45	S	3	r	30.07	+20	51	50	+11	WSW	4	om	3	C.T.M	#	51	36	0.13	
	Jersey (St. Aubin's)	30.05	47	NW	2	om	30.13	+30	53	53	+8	N	4	om.r	3	C.T	#	53	45	0.05	
	Hurst Castle ...	29.98	44	NW	1	O	30.04	+26	50	49	+11	SW	3	om	2	C.M.O	#	50	37	-	
	Dungeness ...	29.96	39	NW	2	O	29.99	+40	48	48	+7	WSW	3	O	3	O	#	48	37	-	
	North Foreland																#				
	London (Brixton) ...	29.97	41	NW	2	b	29.97	+28	48	47	+7	SSW	2	C	#	C.T.O.P	#	48	40	-	
	Oxford ...	29.96	41	SSW	3	O	30.00	+25	49	48	+9	SW	1	O	#	C.O	#	50	40	-	
	Cambridge ...	29.96	38	NW	1	O	29.97	+32	44	44	+7	SW	3	b	#	C.O	#	46	36	-	
PENINSULA.	Yarmouth ...	29.90	38	WSW	3	b	29.93	+34	41	40	O	WSW	3	b.m	3	C.T.C	#	42	36	0.03	
	Cuxhaven ...	29.80	34	NNE	3	O	30.07	+82	31	30	-5	SE	1	O	#	O	#	36	30	-	
	Berlin ...	29.68	34	NW	4	O	30.04	+84	31	28	-4	NW	4	O	#	O	#	37	30	-	
	Wiesbaden ...	#	#	#	#	#	30.12	+82	37	35	+1	NW	2	O	#	#	#	39	36	0.12	
	Munich ...	29.74	32	N	5	O	30.13	+75	31	31	-1	NW	6	S	#	O	#	34	30	0.04	
	The Helder ...																#				
	Brussels ...	#	#	#	#	#	30.05	+66	39	39	O	SW	3	r	#	O	#	43	35	0.04	
	Cape Gris Nez ...	#	#	#	#	#	?	?	51	49	+6	WSW	4	O	#	b	#	52	44	0.04	
	Paris ...	30.02	42	NW	4	b	30.14	+54	37	?	-4	S	2	r	#	b	#	45	35	-	
	Brest ...	30.07	53	WSW	2	O	30.17	+27	53	52	+4	N	4	O	5	O	#	52	45	-	
PENINSULA.	Lorient ...	30.10	50	WSW	4	r	30.21	+28	53	53	+5	N	5	f	5	r	#	55	48	0.08	
	Rochefort ...	30.10	48	NW	3	O	30.24	+31	50	47	+2	N	3	O	#	O	#	50	45	0.12	
	Belfort ...	29.84	35	N	4	C	30.23	+76	34	33	+2	N	3	m	#	C	#	37	32	0.16	
	Lyons ...	29.98	40	NW	4	O	30.34	+59	37	36	-1	E NE	1	O	#	O	#	43	37	0.04	
	Nice ...	29.62	43	NW	6	b	29.90	+42	40	32	O	NE	7	b	4	b	#	46	39	-	
	Perpignan ...	30.09	47	NW	3	O	30.23	+32	53	49	+13	NW	3	b	#	O	#	48	40	0.08	
	Biarritz ...	30.11	56	NW	7	r	30.28	+34	54	54	+1	N	4	O	5	r	#	56	50	1.10	
	Corunna ...																#				
	Lisbon ...	30.43	54	N	4	b	30.38	-06	57	48	-4	N	3	C	#	b	#	61	50	-	
	Azores (P. Delgada)	30.36	61	S	3	C	30.30	-11	59	57	-1	WSW	3	O	4	C	#	61	59	-	

For Explanation of Columns, see bottom of last page. Erratum.-The amount of Rainfall for London in yesterday's report should read "0.13 in".

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 Wednesday, 4<sup>th</sup> January, 1899.

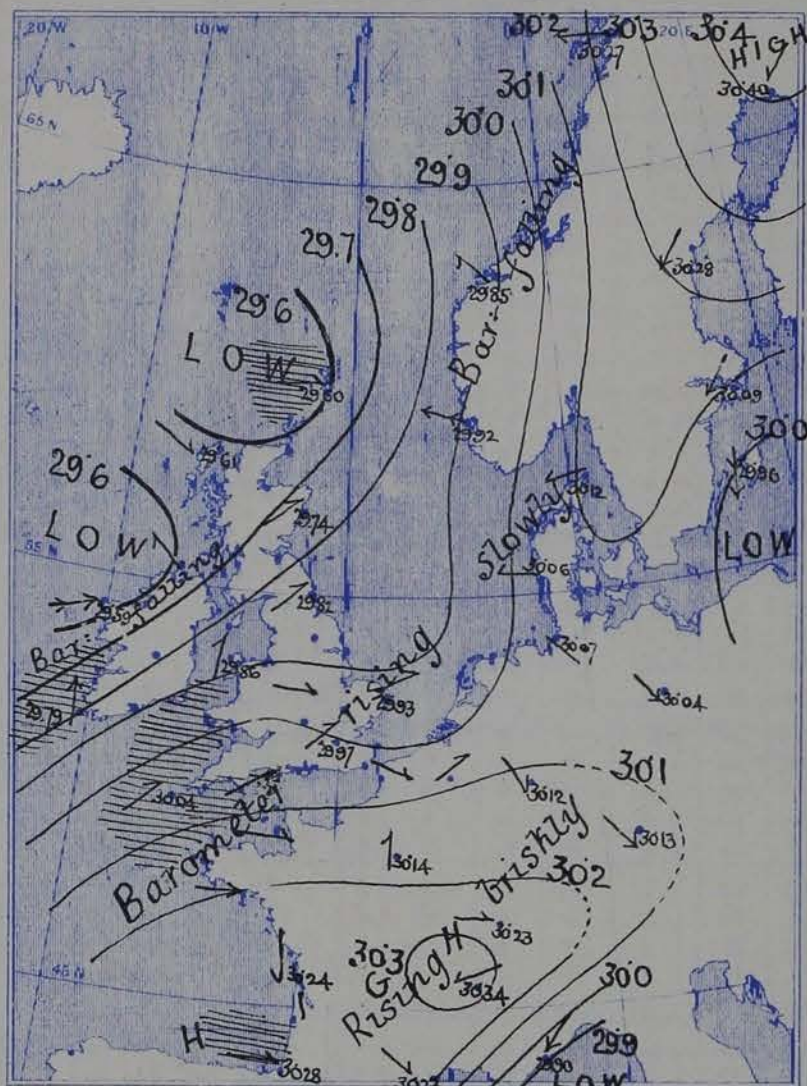
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

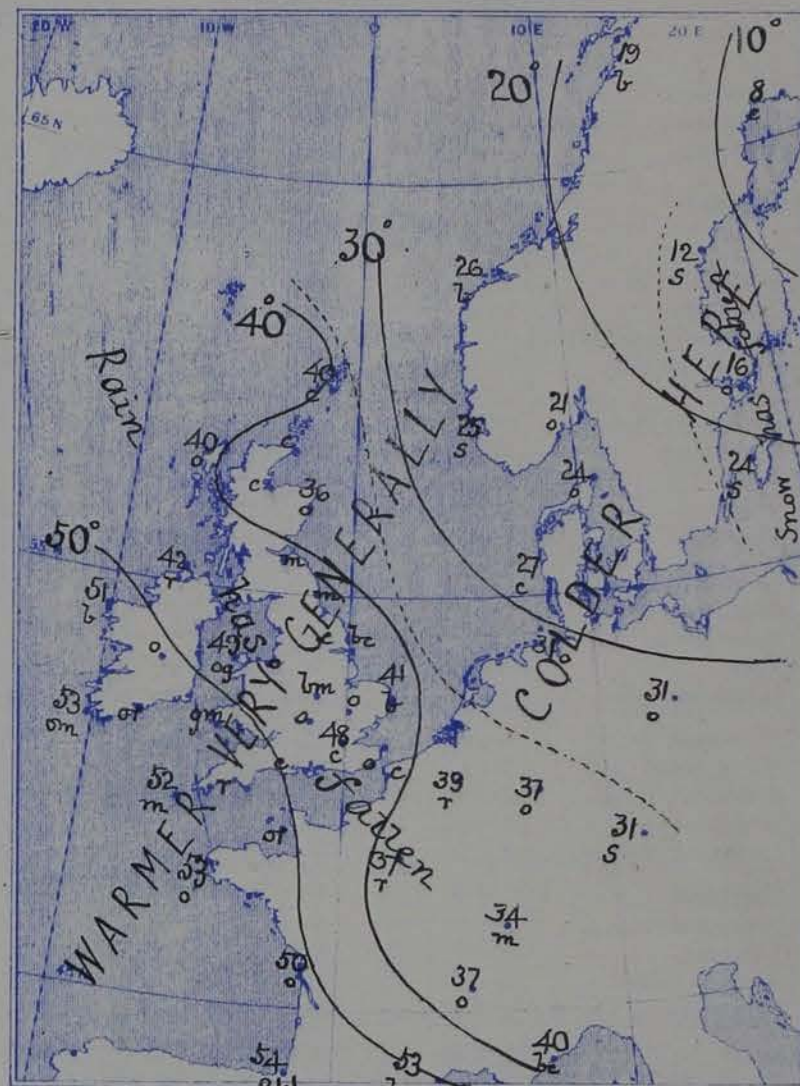


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of					Absolute Extremes.				Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 91	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 30.40 ins. at Haparanda; 30.2 ins. to 30.4 ins. in an anticyclone lying over the greater part of France and also in another system lying over the N. parts of Scandinavia. Lowest 29.6 ins. and less in two depressions, - one lying off the N. of Scotland, and the other off the W. of Ireland, 29.9 ins. and less in a third over the Gulf of Genoa, 30.0 ins. and less in a fourth over the Baltic. Gradients moderate or slight generally, but rather steep over Ireland. Barometer rising over W. Europe as a whole, but falling in the W. of Ireland and also in the W. of Norway.
TEMPERATURE	Highest 54° at Biarritz, and 53° at Valencia (Ireland), Jersey, Brest, Lorient and Perpignan. Lowest 8° at Haparanda, 12° at Helsingfors, and 16° at Stockholm and Karlsbad; lowest in our Islands 36° at Aberdeen, and 37° at Naime. A considerable rise has taken place over Ireland and England, the change at Parsonstown amounting since yesterday morning to 15°.
WIND	SW. or S. over the greater part of our Islands and strong in force at some of the western stations, with a gale at Belmullet. E. or SE. on the eastern shores of the North Sea, with a gale at Skudesnaes. NE. in Sweden, with a gale at Wisby; NW. in Germany, W. in the west of France, strong from the NE. at Nice. Fine over the E. and central parts of England and also in the W. of Norway.
WEATHER	Cloudy or dull in all other parts of our area, with rain at some of our own W. stations, and also at Brussels and Paris; snow falling at Helsingfors, Wisby and Skudesnaes, as well as at Munich.
SEA	Since yesterday morning rain has fallen in the W. and N. of our Islands and slight showers at some of our E. and SE. stations. Rain also fell in France and Germany, - as much as 1.1 in. at Biarritz. Rough at Valencia (Ireland) and rather rough on our SW. coasts generally, as well as in the Bay of Biscay and at Sumburg.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression which appeared last evening off our NW. coasts is now moving away to the N.W., but another disturbance is shown this morning off the W. of Ireland. Strong S. winds or gales are still probable on many parts of our W. coasts and freshening winds in the north, with changeable weather in most districts.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>TH</sup> JANUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW. to S. winds, freshening, cloudy, some rain.	6 SCOTLAND WEST	S. winds, freshening considerably, dull, some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SW. winds moderate, fine at first, some rain later.	8 ENGLAND S.W.	SW. winds, strong, squally, some rain.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES	SW. winds, freshening, cloudy, some rain.	10 IRELAND SOUTH	S. and SW. winds, strong, squally, some rain.
5 ENGLAND SOUTH			

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.87	29	28	SE	4	0	3	Valencia ...	29.83	53	52	SW	5	om	6
Sumburgh Head ...	29.60	38	87	S	2	c	5	Scilly ...	29.94	49	49	SSE	2	m	6
Stornoway ...	29.41	43	42	SSW	5	0	5	Jersey ...	29.99	49	43	WNW	4	c	4
Aberdeen ...	29.69	41	38	S	4	oggp	6	Hurst Castle ...	29.93	45	41	W	1	em	2
Shields ...	29.80	41	40	SW	1	om	3	Dungeness ...	29.85	43	41	W	4	0	3
Ardrossan ...	29.68	44	43	SW	5	0	4	North Foreland							
Malin Head ...	29.47	40	39	SSW	6	0	4	London (Westminster)	29.87	45	42	W	3	0	#
Belmullet ...	29.61	51	51	WSW	5	0	#	Yarmouth ...	29.80	42	39	WNW	3	c	4
Holyhead ...	29.82	44	40	SW	3	oggp	2	Rocheport ...	30.01	50	47	WNW	4	0	#

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

*Weather in morning fine at many of the English stations and also in the W. of Norway, but cloudy and unsettled in nearly all other parts of Europe. Rain falling in the S. of Ireland, as well as in the extreme S. of France, at Cagliari and Palermo, and at Buda Pesth and St. Petersburg; snow reported at Skagen, Wisby and Memel and also at Munich. A little rain falling later in the W. and N. of our Islands generally, as well as in many parts of France and Germany.*

*Temperature risen over England and Ireland and also in the E. and central parts of the Continent, but fallen elsewhere. Morning readings highest 60° at Nemours, Cron and Algiers, and 56° at La Calle and Tunis; above 50° at several of the Mediterranean and Spanish coast stations. Lowest 3° at Archangel, 10° at Kuopio, and 12° at Haparanda and St. Petersburg; below the freezing point over N. Europe generally and also over central Scotland. Rising during day to 50° and upwards at several of our own W. stations and also in the W. and S. of France and reaching 56° at Biarritz.*

*Wind light to fresh from the NW. over England and the greater part of France, but strong to a gale from the same quarter in the extreme south of France, and also over the western parts of the Mediterranean. Rather variable in Italy, but chiefly N. or NW.; S. over the southern parts of Russia; E. or NE. over northern Europe generally, with a gale in Denmark and the south of Scandinavia. S. or SE. in Ireland and the north and east of Scotland, but NW. in the west of Scotland. Subsequently backing to the SW. over the greater part of England.*

*Barometer highest 30.4 ins. and upwards in an anticyclone lying to the SW. of the Spanish Peninsula; 30.1 ins. and upwards in another system over the N. of Scandinavia. Lowest 29.2 ins. and less in a large and complex depression over E. Germany and Austria; 29.6 ins. and less in a shallow disturbance over the N. of Scotland. New depression moving later in a NNE. direction along our extreme W. coasts.*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT

for 8 a.m. on Thursday 5<sup>th</sup> January, 1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.	
				At 32° and M.S.L.	Dry Bulb.		Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.					Dir.	Force (0 to 12.)		Max.
SCANDINAVIA.	Haparanda ...	Ins.	0	N	2	0	Ins.	Ins.	0	0	0	NNE	4	c	#	0	#	12	-3	-	
	Hernösand ...	30.22	12	Z	0	0	30.07	- .21	-4	-4	- 16	Z	0	b	#	0	#	19	?	0.08	
	Stockholm ...	30.16	18	NNW	2	0	30.07	- .02	17	15	+ 1	W	2	0	#	0	#	19	12	-	
	Wisby ...	30.14	23	N	6	5	30.08	+ .12	22	21	- 1	SSE	4	0	#	0	#	25	19	-	
	Karlstad ...	30.20	16	NE	2	0	29.93	- .24	15	15	- 1	ENE	6	5	#	0	#	#	#	0.04	
	Bodö ...	30.17	20	E	5	0	30.00	- .27	21	18	+ 2	E	4	b	1	0	#	21	16	-	
	Christiansund ...	29.80	29	SSE	4	5	29.57	- .28	29	27	+ 2	ESE	5	c	4	5	#	29	26	-	
	Skudesnaes ...	29.86	33	SSE	8	0	29.58	- .34	42	38	+ 18	WSW	8	0	5	0	#	43	23	#	
	Færder (Christiania Fjord)	30.14	20	SE	4	0	29.76	- .39	24	23	+ 3	ENE	6	0	3	0	#	24	19	-	
	Skagen (The Scaw)	29.94	25	S	3	5	29.67	- .45	35	33	+ 11	SW	3	r	0	5	#	36	23	0.04	
BRITISH ISLANDS.	Fanö ...	29.96	30	S	6	0	29.94	- .12	40	38	+ 13	W	4	b	#	0	#	41	27	0.16	
	Sumburgh Head	29.48	40	SE	3	r	29.41	- .19	40	37	0	WNW	10	or sp	8	0. r	#	42	36	0.24	
	Stornoway ...	29.21	44	SW	4	0	29.79	+ .18	34	33	- 6	NN	4	r	4	0.0	#	44	32	0.15	
	Wick ...	29.42	42	W	6	0	29.74	+ .18	37	36	- 1	WNW	3	b	3	0	#	44	33	0.05	
	Nairn ...	29.41	44	WSW	4	r	29.77	+ .09	35	34	- 2	Z	0	0	1	r	#	47	33	0.13	
	Aberdeen ...	29.52	43	SSW	2	0	29.85	+ .11	36	34	0	SW	3	b	3	0.0 p. b	#	44	35	0.01	
	Leith ...	29.61	46	W	3	0	29.95	+ .19	40	38	- 2	WNW	7	r	#	0	#	50	37	0.10	
	Shields ...	29.72	50	SW	3	bm	30.03	+ .21	38	36	- 4	SSW	4	b	2	0.0, bm	#	51	36	-	
	Spurn Head ...	29.81	48	SW	4	b	30.19	+ .31	38	36	- 5	WSW	3	b	3	b	#	49	36	-	
	York ...	29.80	51	W	2	0	30.18	+ .28	36	34	- 8	S	1	b	#	0. r	#	52	35	0.03	
GERMANY & HOLLAND.	Loughborough ...	29.91	51	SSW	4	c	30.25	+ .32	31	30	- 13	SE	1	b	#	0.0, c, b	#	52	30	-	
	Ardrossan ...	29.67	47	W	7	b	30.02	+ .30	42	41	- 3	W	6	c	5	0.0, b	#	50	41	0.12	
	Malin Head ...	29.63	43	W	9	b	30.05	+ .48	41	38	- 1	W	3	c	3	0.0, b	#	49	36	0.08	
	Belmullet ...	29.96	44	WNW	5	b	30.18	+ .59	42	38	- 9	W	4	b	#	b	#	57	38	0.08	
	Donaghadee ...	29.80	44	WNW	6	b	30.13	+ .40	37	37	- 7	WSW	4	b	2	b	#	52	33	0.03	
	Liverpool (Bidston)	29.91	49	WSW	5	b	30.20	+ .30	41	38	- 5	SW	3	c	3	0.0, b	#	53	37	0.03	
	Holyhead ...	29.92	49	W	5	c	30.19	+ .33	45	42	- 4	WSW	4	c	3	0.0, c	#	53	40	0.01	
	Parsonstown ...	29.96	43	W	1	b	30.24	+ .50	35	35	- 17	Z	0	c	#	0.0, r	#	53	34	0.06	
	Valencia ...	30.06	47	W	4	b	30.26	+ .47	46	42	- 7	WSW	3	b	4	0.0, b	#	53	41	0.06	
	Roche's Point ...	30.04	46	W	3	b	30.28	+ .38	41	39	- 11	NW	2	b	3	b	#	52	40	0.04	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.97	51	W	6	c	30.26	+ .32	48	47	- 4	W	5	c	4	c	#	53	47	0.02	
	Scilly ...	30.06	51	WNW	4	r	30.31	+ .27	49	45	- 3	W	3	c	4	0.0, r	#	55	44	0.07	
	Prawle Point ...	30.10	51	WSW	4	0	30.32	+ .25	41	40	- 10	W	3	b	2	0.0, c	#	51	39	0.07	
	Jersey (St. Aubin's)	30.18	52	WSW	4	cy	30.29	+ .16	49	49	- 4	NW	2	odm	2	0.0, og	#	55	48	0.09	
	Hurst Castle ...	30.06	51	SW	2	om	30.31	+ .27	37	37	- 13	NE	1	b	1	om	#	51	37	-	
	Dungeness ...	30.05	49	WSW	4	odp	30.27	+ .28	39	39	- 9	NNW	2	m	1	0	#	50	39	-	
	North Foreland															#					
	London (Brixton) ...	29.93	51	WSW	2	0	30.30	+ .33	36	35	- 12	WNW	1	bm	#	0.0, b	#	53	35	0.01	
	Oxford ...	30.03	51	WNW	3	d	30.31	+ .31	36	35	- 13	WSW	2	b	#	odp, b	#	53	36	-	
	Cambridge ...	29.98	50	SW	5	b	30.28	+ .31	31	31	- 13	SW	1	b	#	b	#	56	30	0.01	
PENINSULA.	Yarmouth ...	29.94	47	SSW	3	bm	30.24	+ .31	35	34	- 6	WSW	2	bm	3	c, bm	#	48	33	0.01	
	Cuxhaven ...	30.01	32	S	4	0	30.05	- .02	40	40	+ 9	W	2	b	#	0.0, r	#	41	31	0.16	
	Berlin ...	30.19	28	SSE	2	b	30.14	+ .10	33	32	+ 2	SSW	2	r	#	b	#	33	27	-	
	Wiesbaden ...	#	#	#	#	#	30.26	+ .14	40	39	+ 3	NN	1	0	#	#	#	45	37	-	
	Munich ...	30.23	34	W	4	0	30.32	+ .19	37	37	+ 6	W	4	r	#	0	#	37	31	0.32	
	The Helder ...	29.95	46	SW	2	0	30.19		44	41		NW	2	b	1	0	#	48	39	0.04	
	Brussels ...	#	#	#	#	#	30.28	+ .23	47	45	+ 8	Z	0	0	#	0	#	49	39	0.08	
	Cape Gris Nez ...	?	51	W	5	f	?	?	48	44	- 3	NE	1	0	2	f	#	52	41	0.04	
	Paris ...	30.22	48	SW	2	r	30.30	+ .16	47	46	+ 10	SSW	2	0	#	r	#	50	37	0.08	
	Brest ...	30.17	53	WSW	3	0	30.30	+ .13	49	48	- 4	NNW	1	0	4	0	#	54	45	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. 0.8 hrs;



# WEATHER CHARTS

FOR Thursday, 5<sup>th</sup> January, 1899.

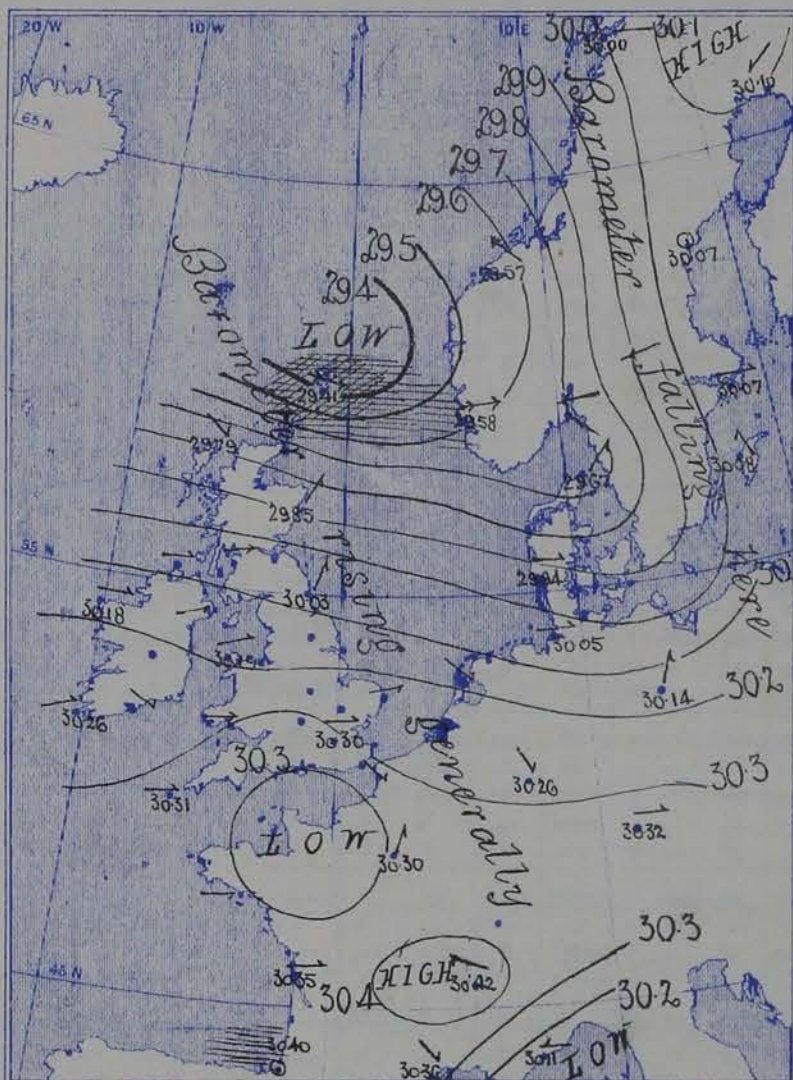
## BAROMETER, WIND AND SEA.

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

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

Force above 10 → ; Force 5 to 7 → ; Force 1 to 4 → ; Calm ☉

SEA—Rough ≡ ; High ≡

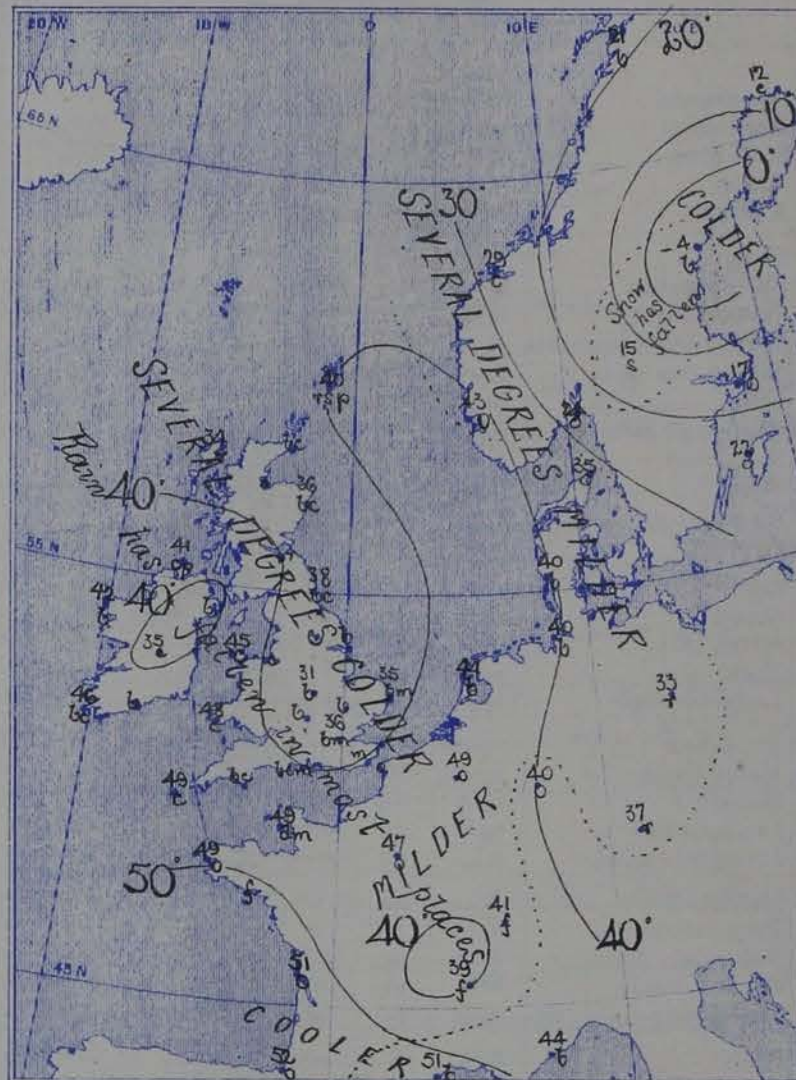


## TEMPERATURE & WEATHER.

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 JANUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 France and W. Germany.  
 Lowest 29.4 ins. and less in a somewhat deep depression to the N.W. of the Shetlands.  
 Gradients rather steep over the N.W. parts of the country, the North Sea and Scandinavia.  
 Barometer rising over our Islands generally, falling to the E. of the North Sea.

## TEMPERATURE

Highest 54° at Lorient, 52° at Biarritz, 51° at Rochfort and Perpignan, 49° at Scilly and Bret.  
 Lowest -4° F. at Havnissand, +12° at Haparanda, 15° at Karlstad, and 21° at Bodø. Lowest in our Islands 31° at Longborough and Cambridge, and 35° at Parsonstown.

## WIND

W. over the greater part of our Islands, and strong in force at some of the northern stations, with a whole gale at Sumburgh H., chiefly E. on the eastern shores of the North Sea, variable over France and Germany.

## WEATHER

Fine over our Islands and the Continent generally, cloudy in the extreme N., with showers of cold rain or sleet at many of the Scotch stations. Snow falling at Karlstad, and rain at Berlin and Munich. Since yesterday morning rain has fallen over W. Europe generally.

## SEA

High at Sumburgh H., rather rough at Skudesnaes and Androsson, moderate to slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the S. appears to be spreading slowly N.W., and fair and rather cold weather, with local fogs and frost at night are probable over the greater part of our Islands. In the N., however, strong winds and cold showers are still likely.

# FORECASTS

For the 24 hours ending at NOON on 6<sup>TH</sup> JANUARY 1899.

## DISTRICTS.

## FORECASTS.

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

W. to S.W. winds, fresh to strong, changeable, some showers.

W. winds, light or moderate, fair, some fog locally; frost at night.

## DISTRICTS.

## FORECASTS.

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

W. winds, light or moderate, fair generally, cold inland.

## WARNINGS

At 11.45 am today to districts 7 and 9. Lower Cone. The signals are still flying in districts 0, 1 & 6.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.96	30	29	SE	4	o	5	Valencia	29.93	50	45	WSW	6	og	6
Sumburgh Head	29.63	40	38	S	1	o	5	Scilly	30.05	54	52	SW	5	o	5
Stornoway	29.39	40	40	SE	4	r	4	Jersey	30.16	54	53	WSW	4	o	3
Aberdeen	29.62	42	40	SSW	3	ogp	4	Hurst Castle	30.05	51	50	SW	3	ow	3
Shields	29.72	46	45	SSW	3	ow	2	Dungeness	30.03	50	50	WSW	4	c	3
Ardrossan	29.60	49	48	WSW	3	o	3	North Foreland							
Malin Head	29.52	47	44	SW	5	c	4	London (Westminster)	29.99	55	52	SW	2	o	#
Belmullet	29.70	49	45	WSW	8	begu	#	Yarmouth	29.94	45	44	S	2	c	3
Holyhead	29.80	52	51	SW	6	ompd	4	Rocheport	30.29	54	52	W	3	o	#

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

Weather in morning fine over the  $E^{th}$ ,  $S^{th}$  and central parts of England, and also in the W. of Norway and in some parts of Italy. Cloudy or dull in most other places, with snow at several of the Scandinavian stations, and also at St. Petersburg and Munich. Rain falling later over W. Europe generally, but not in large quantities.

Temperature risen considerably over Ireland and England; fallen at most of the continental stations. Morning readings highest  $58^{\circ}$  at Algiers,  $56^{\circ}$  at La Calle,  $55^{\circ}$  at Barcelona,  $54^{\circ}$  at Biarritz, above  $50^{\circ}$  at several of the Mediterranean and Spanish stations. Lowest  $-23^{\circ}F.$  at Archangel,  $6^{\circ}$  at Kuopio,  $8^{\circ}$  at Helsingfors, and  $10^{\circ}$  at Hangö; below the freezing point over N. Europe generally. Rising during day to  $50^{\circ}$  and upwards over the greater part of our Islands and France, and reaching  $57^{\circ}$  at Lorient and Nice, and  $59^{\circ}$  at Perpignan.

Wind SW. or S. over our Islands, and strong at some of the N. stations, with a gale at Belmullet, E. and NE. over northern Europe generally, and blowing a gale at Skudesnaes and Wisley; rather variable over France, but N. and NW. over southern Europe, and blowing strongly or with the force of a gale at several Mediterranean stations. Subsequently veering to the W. on our northwest coasts and increasing to a fresh or strong gale in many parts of Scotland.

Barometer highest 30.4 ins. at Haparanda, and 30.3 ins. and upwards in an anticyclone lying over Spain and Portugal. Lowest 29.3 ins. and less in a somewhat complex depression over S. Russia and the Balkan Peninsula, and 29.6 ins. and less in two depressions, one lying off the north of Scotland and the other off the W. of Ireland. The low pressures in the NW. moving northeastwards later and barometer rising on all our W. and NW. coasts.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on Friday 6<sup>th</sup> January, 1899.

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.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)				Weather.	Max.	Min.			
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.			
	Hernösand ...	29.78	14	NNE	4	0	29.83	-.27	5	4	- 7	NNW	2	b	#	0	18	-6	0.24			
	Stockholm ...	29.77	?	Z	0	?	29.86	-.21	16	15	+ 20	N	4	s	#	?	?	-6	-			
	Wisby ...	29.76	19	N	2	S	29.81	-.26	10	10	- 7	NNW	2	c	#	s	21	10	0.32			
	Karlstad ...	29.80	30	S	4	C	29.70	-.38	28	27	+ 6	N	10	s	#	c	37	19	0.35			
		29.72	18	NE	2	S	30.00	+ .07	10	9	- 5	WNW	4	c	#	s	41	41	0.16			
	Bodö ...	29.85	27	E	4	b	30.01	+ .01	22	20	+ 1	E	4	o	1	b	#	27	18	-		
	Christiansund ...	29.73	26	S	2	bv	30.13	+ .56	33	30	+ 4	SW	1	o	5	bv	#	33	25	-		
	Skudesnaes ...	29.78	38	W	9	0	30.16	+ .58	36	35	- 7	WNW	2	bv	4	c.o	#	43	36	#		
	Færder (Christiania Fjord)	29.64	23	NNW	4	0	30.06	+ .30	20	18	- 4	NW	1	b	4	o	#	24	18	-		
	Skagen (The Scaw)	29.75	36	W	3	c	30.08	+ .41	28	28	- 7	NW	3	b	0	e	#	41	25	0.08		
	Fanö ...	30.10	40	WNW	8	0	30.21	+ .27	39	37	- 1	WNW	6	b	#	o	#	41	37	0.08		
	Sumburgh Head	29.87	40	WNW	5	0	30.07	+ .66	40	36	0	S	2	o	5	c.o	#	42	34	0.01		
	Stornoway ...	30.08	33	NW	3	b	29.80	+ .01	44	41	+ 10	SSE	7	o	7	s.b	07	44	32	0.03		
Wick ...	30.08	30	NW	2	bv	29.99	+ .25	41	39	+ 4	S	7	ow	5	bv	#	41	29	0.05			
Nairn ...	30.15	35	NNW	1	b	30.00	+ .23	38	34	+ 3	SE	1	b	1	b	#	40	28	0.01			
Aberdeen ...	30.16	36	WSW	3	b	30.10	+ .25	40	27	+ 4	SSE	6	oggy	4	bgy.b	53	41	31	-			
BRITISH ISLANDS.	Leith ...	30.23	38	WNW	3	bv	30.09	+ .14	37	33	- 3	ENE	1	o	#	bv	#	42	32	0.02		
	Shields ...	30.29	38	SW	2	bv	30.13	+ .10	36	34	- 2	S	3	o.	2	b.bv	#	44	31	-		
	Spurn Head ...	30.32	39	W	4	b	30.30	+ .11	36	36	- 2	SSE	2	omw	3	b.bv	#	43	35	-		
	York ...	30.32	39	W	1	b	30.26	+ .08	33	32	- 3	SSE	1	f	#	b	0.0	48	29	-		
	Loughborough ...	30.38	32	NW	1	b	30.20	+ .05	33	32	+ 2	SE	2	om	#	b.bv.c	#	46	27	-		
	Ardrossan ...	30.28	43	SW	3	b	29.93	- .09	43	42	+ 1	SE	8	omp	5	aprv.b	#	44	34	0.01		
	Malin Head ...	30.22	38	SSE	3	b	29.78	- .27	46	45	+ 5	S	8	r	5	bv.b	#	46	?	0.32		
	Belmullet ...	30.23	38	SSE	3	b	29.91	- .27	43	41	+ 1	WNW	5	o	#	b	#	48	37	0.35		
	Donaghadee ...	30.22	36	NW	3	b	29.94	- .21	45	43	+ 8	SSE	8	r	6	b	#	46	31	0.04		
	Liverpool (Bidston)	30.38	40	W	2	b	30.19	- .01	37	35	- 4	SE	4	c	?	b	#	46	34	-		
	Holyhead ...	30.36	42	SW	1	b	30.07	- .12	45	43	0	S	7	og	4	bv.b	#	47	37	-		
	Parsonstown ...	30.31	39	SE	1	o	29.95	- .29	45	44	+ 10	Z	0	or	#	o	3.1	49	35	0.14		
	Valencia ...	30.22	46	SE	4	o	30.00	- .26	46	43	0	W	4	o	4	o.r	2.0	51	40	0.79		
	Roche's Point ...	30.31	47	ESE	3	c	29.99	- .29	48	48	+ 7	SW	3	r	5	c	#	50	41	0.20		
Pembroke (St. Ann's Hd.)	30.35	44	E	3	c	29.08	- .18	49	44	+ 1	S	6	og	4	b.c	5.2	49	44	-			
GERMANY & HOLLAND.	Scilly ...	30.31	48	ESE	1	c	30.10	- .21	52	50	+ 3	S	4	omp	4	c	37	55	45	-		
	Prawle Point ...	30.38	44	NW	2	bv	30.19	- .13	50	48	+ 9	S	4	o	3	bv	#	51	40	0.01		
	Jersey (St. Aubin's)	30.41	48	N	3	bv	30.23	- .06	48	48	- 1	SE	4	odm	3	c.bv	#	52	44	0.03		
	Hurst Castle ...	30.38	40	Z	0	b	30.24	- .07	48	47	+ 11	SE	3	om	2	bv.b	#	49	37	-		
	Dungeness ...	30.40	39	NW	2	b	30.34	+ .07	44	43	+ 5	SE	4	c	5	b.bv	#	47	34	-		
	North Foreland																#					
	London (Brixton) ...	30.40	36	W	2	b	30.31	+ .01	38	37	+ 2	SSE	1	om	#	b.bv.b	0.0	45	32	-		
	Oxford ...	30.43	33	Z	0	f	30.29	- .02	38	37	+ 2	SE	3	og	#	b.f	#	46	30	-		
	Cambridge ...	30.41	37	SW	1	b	30.32	+ .05	34	33	+ 3	SSE	1	bv	#	b	5.1	48	28	-		
	Yarmouth ...	30.33	38	W	2	b	30.33	+ .09	41	40	+ 6	SSE	3	c	3	b	#	42	31	-		
	Cuxhaven ...	30.22	27	WSW	2	b	30.30	+ .25	39	37	- 1	WNW	3	b	#	b	#	40	37	-		
	Berlin ...	30.28	26	SW	2	b	30.25	+ .11	34	33	+ 1	WNW	4	b	#	b	#	44	32	0.04		
	Wiesbaden ...	#	#	#	#	#	30.45	+ .19	32	32	- 8	NW	2	b	#	#	#	45	32	-		
	Munich ...	30.42	8	W	3	r	30.43	+ .11	38	38	+ 1	NW	2	r	#	r	#	41	37	0.12		
The Helder ...	30.31	44	WNW	2	b	30.28	+ .19	38	37	- 6	Z	0	b	0	b	#	45	37	-			
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	30.43	+ .15	33	32	- 14	E	1	b	#	b	#	50	32	-		
	Cape Gris Nez ...															#	#	#	#			
	Paris ...															#	#	#	#			
	Brest ...															#	#	#	#			
	Lorient ...	30.36	50	E	4	c	30.19	- .12	47	47	- 7	SE	5	m	5	c	#	57	46	-		
	Rochefort ...	30.33	50	NW	2	mv	30.17	- .18	43	41	- 8	E	3	bv	#	c.m	#	57	39	-		
	Belfort ...															#	#	#	#			
	Lyons ...	30.42	44	N	1	bv	30.38	- .04	41	41	+ 2	ESE	1	f	#	bv	#	52	39	-		
	Nice ...															#	#	#	#			
	Perpignan ...															#	#	#	#			
	Biarritz ...	30.24	53	E	3	o	30.06	- .34	43	41	- 9	SE	4	c	3	o	#	55	41	-		
	PENIN- SULA.	Corunna ...															#	#	#	#		
		Lisbon ...	30.20	56	SSE	1	o	30.19	- .11	54	53	+ 6	ENE	1	o	#	o	#	57	48	-	
		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 4.1 hrs;



# WEATHER CHARTS

FOR Friday, 6<sup>th</sup> January, 1899.

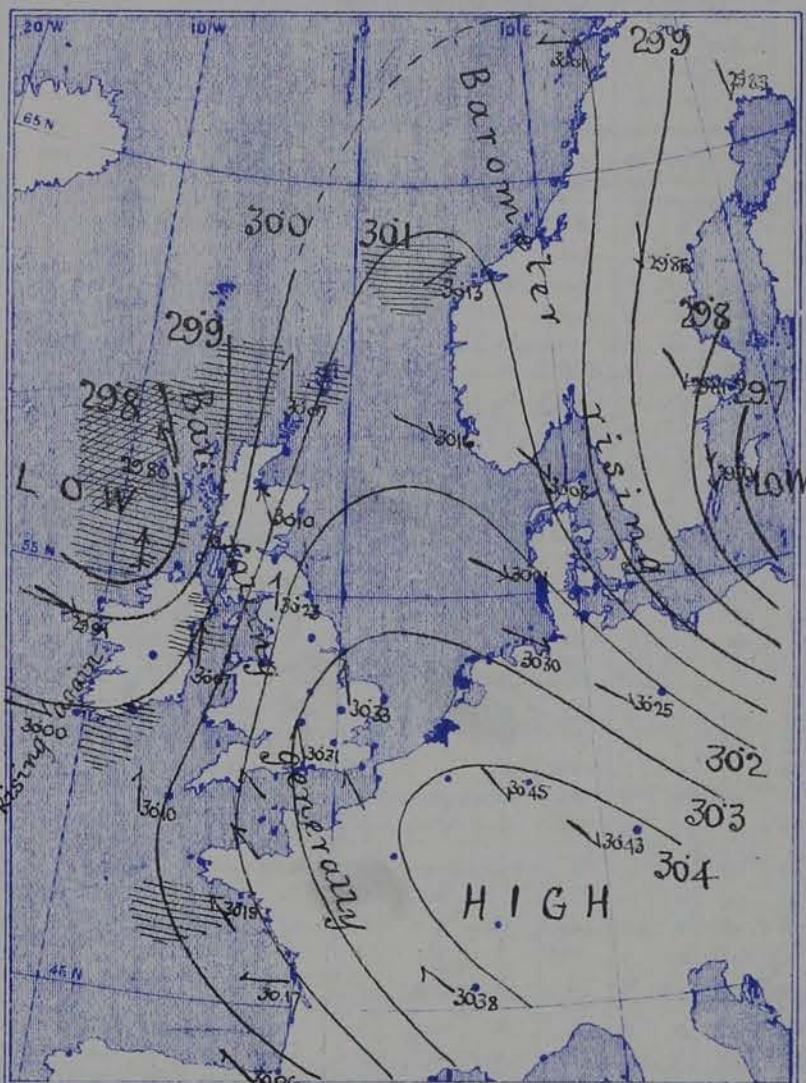
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough : High

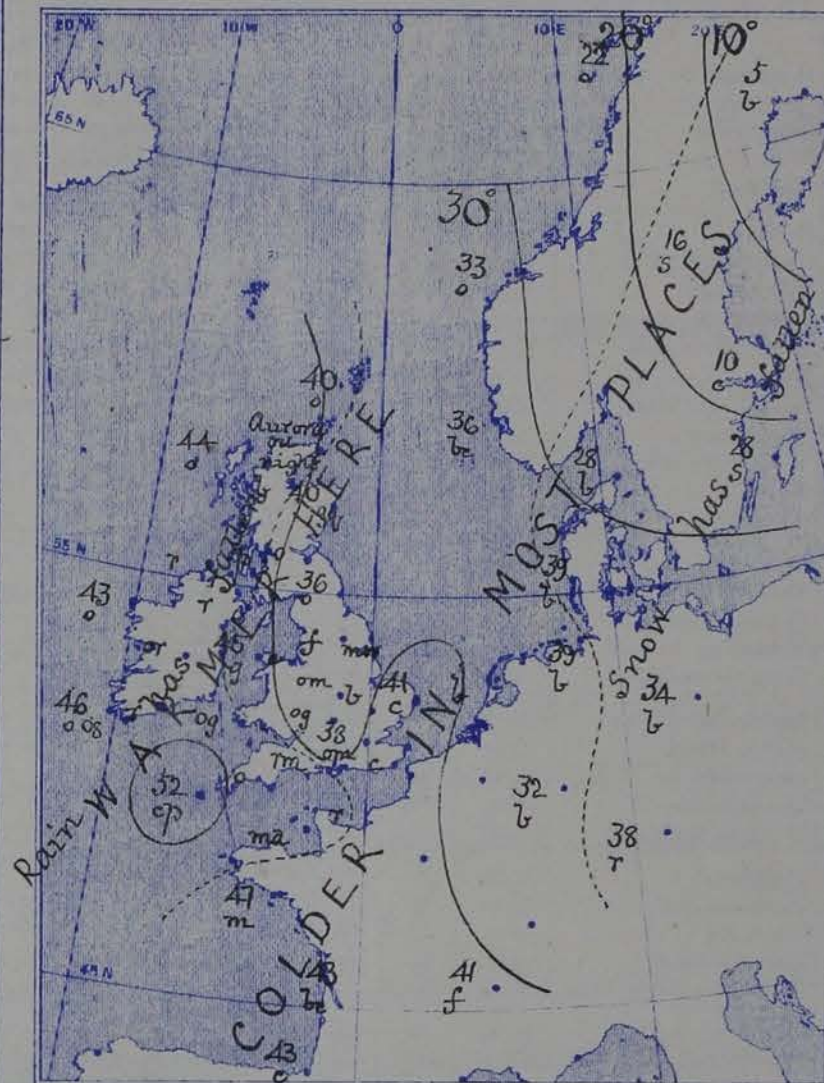


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.0	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 W.<sup>m</sup> and S.<sup>m</sup> Germany.  
Lowest 29.7 ins. and less in a depression moving away over the Baltic Provinces; 29.8 ins. and less in a new disturbance which had appeared off the W. of Scotland.

Gradients slight generally, but rather steep over the W. of Scotland and also over the Baltic.  
Barometer falling in Gt. Britain and France, but rising again briskly in the W. of Ireland.

Highest  $52^{\circ}$  at Scilly,  $50^{\circ}$  at Prawle Pt.,  $49^{\circ}$  at Pembroke, and  $48^{\circ}$  at Roche's Pt. Jersey & Hurst Castle.  
Lowest  $5^{\circ}$  at Hapsranda,  $10^{\circ}$  at Stockholm and Karlstad, and  $16^{\circ}$  at Hernösand; lowest in our Islands  $33^{\circ}$  at York and Loughborough.

Frost occurred last night over Gt. Britain the lowest readings reported being, (1) In the screen  $28^{\circ}$  at Nairn and Cambridge, and  $29^{\circ}$  at Wick; (2) On the grass  $21^{\circ}$  at Loughborough, &  $24^{\circ}$  at Oxford

WIND

9. on most parts of our western and northern coasts, with a gale in the extreme northwest; moderate to fresh from the W<sup>nd</sup> in the west of Ireland.

Light to moderate from the SE<sup>ward</sup> over the greater part of England and France.

N. <sup>4</sup> in Sweden with a gale at Wisby; NW <sup>3</sup> in Denmark, Germany and the south of Norway

## WEATHER

Cloudy or dull over the United Kingdom generally, with rain at many of our W<sup>m</sup> and S<sup>m</sup> stations. Fine over the W<sup>m</sup> parts of the Continent, but cloudy at several of the Scandinavian stations, with snow at Hernösand and Wisby. Rain was falling at Munich.

Since yesterday morning rain has fallen in Ireland and the W. and N. of Scotland, as well as in Denmark and Germany and snow in Sweden. Aurora was seen last night at Wick.

SEA

high at Stornoway and rather rough on our NW<sup>n</sup> and extreme N<sup>n</sup> coasts generally, as well as at Christiansund.



### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a new depression has advanced to our NW. coast. This is now moving northwards, but "V shaped" secondary systems are apparently spreading E<sup>wd</sup> over Gt. Britain, so that rain is probable in most districts.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>TH</sup> JANUARY 1899.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
fl 0	SCOTLAND NORTH	S <sup>24</sup> gales, moderating later, squally, some rain.	fl 6	SCOTLAND WEST	Same as Nos 0 and 1.
fl 1	SCOTLAND EAST		7	ENGLAND N.W.	
2	ENGLAND N.E.		8	ENGLAND S.W.	
3	ENGLAND EAST	Same as No 5.	fl 9	IRELAND NORTH	S <sup>24</sup> gales, strong to W <sup>24</sup> , moderate, some rain at first then fair.  W <sup>24</sup> to S <sup>24</sup> winds, fresh, unsettled, showery.
4	MIDLAND COUNTIES		fl 10	IRELAND SOUTH	
5	ENGLAND SOUTH				
		S <sup>24</sup> winds, freshening, dull, unsettled, some rain.	WARNINGS		At 7.15 pm yesterday to districts 6, 3 and 10, and at 9.50 am today in districts 0 and 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.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.68	42	39	W	9	c	7	Valencia	30.27	46	43	SSE	1	0	4
Sumburgh Head	29.73	42	39	WNW	5	c	8	Scilly	30.34	51	46	NNW	1	c	4
Stornoway	29.98	35	35	NW	4	s	4	Jersey	30.28	52	47	NNW	3	c	3
Aberdeen	30.04	39	34	W	5	b	3	Hurst Castle	30.35	48	45	WNW	1	b	2
Shields	30.19	43	42	SW	4	b	2	Dungeness	30.33	47	45	NNW	2	b	1
Ardrossan	30.18	40	39	SW	3	c	3	North Foreland							
Malin Head	30.16	42	38	WNW	5	b	3	London (Westminster)	30.35	46	43	WNW	1	b	#
Belmullet	30.24	43	40	WSW	3	b	#	Yarmouth	30.28	42	40	WSW	2	b	2
Holyhead	30.31	45	42	W	3	b	2	Rocheport	30.25	55	54	SW	2	c	#

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

*Weather in morning fine over England and Ireland and also over the greater part of S. Europe. Cloudy or dull elsewhere, with rain or passing showers in many parts of Scotland as well as at some of the Danish and German stations; snow falling at Kuopio and Karlstad and also at Hermanstadt. Rain falling later over Ireland (heavily at Valencia) and snow in Sweden. Aurora seen at Wick.*

*Temperature fallen several degrees in our Islands and to a less extent over the S. and SE. parts of the Continent risen in most other localities. Morning readings highest 65° at San Fernando, 52° at Gran, and 59° at La Culla; above 50° at most of the Mediterranean and Spanish coast stations, as well as in the W. of France. Lowest -15° F. at Archangel, -4° at Hernösand, +8° at Hango, and 9° at Kuopio; below the freezing point over N. and E. Europe generally, and also over central England. Rising during day to between 45° and 50° over England and Ireland generally, and reaching 55° at Scilly, exceeding 55° at some stations in the S. of France. Frost occurring over E. Britain at night.*

*Wind W. over our Islands and the neighbouring parts of the Continent, and strong in force at several of our northern stations, with a whole gale at Sumburgh H., moderate to strong from the E. at most of the Scandinavian stations. Chiefly NW. in the south of France, and N. or NE. over Italy and the Spanish Peninsula. Light from the NE. over northern Russia, but from the S. or SE. in the central and southern parts of that country. Subsequently backing to the S. or SE. in Ireland, and increasing to a gale at night.*

*Barometer highest 30.4 ins. over the central parts of France and Spain; 30.1 ins. and upwards in an anticyclone lying over the greater part of central and S. Europe, and extending N. over England and Ireland. Lowest 29.4 ins. and less in a depression with its centre a little to the N. of the Shetlands, 29.8 ins. and less in a small disturbance near S. Petersburg, and also in a large area covering the greater part of SE. Europe. Depressions near the Shetlands subsequently moving E., but new disturbances approaching our own W. coasts.*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on

Saturday, 7<sup>th</sup> January,

1899.

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.	Dircc. (0 to 12.)	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dircc. (0 to 12.)	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.04	13	N	2	o	30.08	+25	12	12	+7	NNE	2	o	#	o	#	14	-2	-
	Hernösand ...	30.19	10	Z	0	b	30.14	+28	0	0	-16	Z	0	c	#	b	#	19	-4	-
	Stockholm ...	30.17	16	N	2	b	30.20	+39	14	14	+4	N	2	o	#	b	#	19	7	-
	Wishy ...	30.14	26	N	8	o	30.23	+53	27	25	-1	NNE	4	c	#	o	#	28	19	-
	Karlstad ...	30.27	13	NNE	2	b	30.15	+15	17	16	+7	N	2	S	#	b	#	#	#	-
	Bodö ...	29.92	23	E	4	c	29.90	-11	23	21	+1	E	4	S	2	c	#	25	19	-
	Christiansund ...	30.10	33	NNE	1	c	29.82	-31	37	35	+4	SW	2	c	#	c	#	37	32	-
	Skudesnaes ...	30.13	39	SSE	4	o	29.93	-23	35	34	-1	Z	0	m	3	m.o	#	39	34	#
	Færder (Christiania Fjord) ...	30.26	27	ENE	1	f	30.02	-04	36	35	+16	SSE	5	r	3	f	#	37	19	-
	Skagen (The Scaw) ...	30.28	33	S	1	b	30.09	+01	35	34	+7	SW	3	r	0	b	#	36	28	0.04
BRITISH ISLANDS.	Fanö ...	30.28	37	WSW	2	o	30.08	-13	34	33	-5	S	4	c	#	o	#	41	34	-
	Sumburgh Head ...	29.86	43	S	8	c	29.80	-27	38	37	-2	WSW	1	c	5	o.c	#	43	36	0.09
	Stornoway ...	29.79	37	WSW	3	c	29.79	-01	36	35	-8	W	3	b	3	b.c	0.7	44	31	0.25
	Wick ...	29.81	38	SW	8	c	29.84	-15	35	34	-6	S	2	b.c	3	c	#	45	32	0.05
	Nairn ...	29.88	37	W	1	b	29.88	-12	28	27	-10	Z	0	b	1	b	#	42	26	-
	Aberdeen ...	29.93	37	SW	2	og	29.90	-20	27	26	-13	WSW	1	b.m	4	og.g	0.0	42	27	0.15
	Leith ...	29.96	41	WSW	1	c	29.88	-21	29	29	-8	Z	0	f	#	c	#	45	28	-
	Shields ...	30.02	38	SSW	2	f	29.89	-34	45	45	+4	N	1	f.a	2	o.f	#	45	34	0.06
	Spurn Head ...	30.07	41	S	4	o	29.85	-45	42	42	+6	SSE	3	f.g	3	g.f	#	42	36	-
	York ...	30.06	38	ESE	1	om	29.86	-40	41	41	+8	ESE	1	m	#	om	0.0	41	32	0.10
GERMANY & HOLLAND.	Loughborough ...	30.10	44	SSE	2	o	29.87	-43	42	42	+9	ESE	1	og.f.a	#	g.m.f	#	44	33	0.02
	Ardrossan ...	29.97	43	SSW	2	c	29.85	-08	32	32	-11	NNE	3	b.f	2	o.c	#	46	31	0.01
	Malin Head ...	29.94	41	W	3	op	29.77	-01	35	33	-11	SE	3	b	2	b.c.p	#	46	33	0.04
	Belmullet ...	30.00	41	W	3	o	29.76	-15	33	33	-10	ESE	2	b	#	b.c.o	#	44	32	0.01
	Donaghadee ...	30.01	40	SW	4	o	29.83	-11	42	40	-3	ESE	6	b.c	4	o	#	47	29	0.13
	Liverpool (Bidston) ...	30.04	43	SW	1	o	29.84	-35	42	41	+5	SSE	1	o	#	m.o.a	#	45	36	0.05
	Holyhead ...	30.04	45	NNE	2	og	29.80	-27	44	43	-1	E	3	a.f	2	om.o.g	#	49	42	0.24
	Parsonstown ...	30.03	39	Z	0	o	29.74	-21	37	37	-8	Z	0	o	#	o.f	0.0	45	32	0.01
	Valencia ...	30.03	41	NNE	1	c	29.65	-35	43	40	-3	E	3	o	#	o.c	0.3	47	33	-
	Roche's Point ...	30.03	44	NNE	2	c	29.69	-30	46	45	-2	ESE	5	op	4	r.c	#	50	40	0.25
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.93	49	SW	3	r	29.78	-30	48	47	-1	SSE	4	og	#	o.r	0.0	50	47	-
	Scilly ...	29.98	52	SSE	3	o	29.75	-35	51	51	-1	SSW	3	om	4	op.o	0.0	54	49	0.05
	Prawle Point ...	30.09	46	SE	3	o	29.83	-36	50	49	0	S	3	o	2	om	#	50	45	0.07
	Jersey (St. Aubin's) ...	30.10	49	SE	3	og	29.92	-31	50	49	+2	SSW	3	om	3	og	#	50	46	-
	Hurst Castle ...	30.11	48	ESE	2	o	29.89	-35	48	47	0	SW	2	om	2	om	#	50	47	0.01
	Dungeness ...	30.17	47	SE	3	c	29.89	-45	47	47	+3	SW	1	c.p	1	c	#	48	43	0.01
	North Foreland ...																#			
	London (Briston) ...	30.15	46	SSE	2	o	29.89	-42	44	43	+6	S	1	og.m	#	od.p.o	0.0	47	38	-
	Oxford ...	30.10	46	SSE	1	o	29.88	-41	44	43	+6	S	2	og.a	#	og	#	47	38	-
	Cambridge ...	30.15	43	SSE	2	om	29.89	-44	43	43	+9	S	1	og.m	#	om	0.0	44	33	0.02
PENIN- SULA.	Yarmouth ...	30.17	43	SSE	3	c	29.87	-46	43	42	+2	S	2	og.f	3	c	#	48	39	0.01
	Cuxhaven ...	30.34	36	Z	0	b	30.06	-24	32	31	-7	S	2	c	#	o	#	39	30	-
	Berlin ...	30.35	37	W	3	b	30.27	+02	30	30	-4	SE	3	f	#	b	#	39	30	-
	Wiesbaden ...	#	#	#	#	#	30.19	-26	34	32	+2	NNE	2	o	#	#	#	43	28	-
	Munich ...	30.38	37	E	4	o	30.23	-20	31	31	-7	SE	3	o	#	o	#	39	30	0.04
	The Helder ...	30.25	35	SE	1	m	29.95	-43	33	32	-5	SSE	1	o	0	m	#	39	32	-
	Brussels ...	#	#	#	#	#	30.00	-43	39	38	+6	S	2	o	#	b	#	44	32	-
	Cape Gris Nez ...	#	44	SE	1	m	#	#	46	44	#	SSW	3	o	3	m	#	46	41	-
	Paris ...	30.19	43	E	1	b	30.06	-28	45	44	+2	S	3	o	#	b	#	50	39	-
	Brest ...	30.03	45	SE	3	c	29.86	-53	52	52	+7	S	3	o	3	c	#	53	43	-
GERMANY & HOLLAND.	Lorient ...	30.06	47	SE	3	o	29.93	-26	54	52	+7	SW	5	o	5	o	#	54	43	-
	Rochefort ...	30.09	48	SE	3	o	30.07	-10	46	45	+3	SSE	3	o	#	b.c.o	#	50	41	-
	Belfort ...	30.29	41	E	5	o	30.22	-17	33	32	-6	N	1	m	#	o	#	44	32	-
	Lyons ...	30.29	40	N	1	b	30.24	-14	44	44	+3	SSW	1	b	#	b	#	45	34	-
	Nice ...	30.34	47	Z	0	b	30.30	-02	44	41	+1	E	2	b	2	b	#	57	41	-
	Perpignan ...	30.24	45	SW	2	b	30.21	-07	39	39	+4	SW	2	o	#	b	#	53	35	-
	Biarritz ...	30.08	58	SSW	4	c	30.06	-00	53	48	+10	S	4	c	4	c	#	61	43	-
	Corunna ...																#			
	Lisbon ...	30.20	56	S	2	b	30.19	-00	53	53	-1	SE	1	o	#	b	#	59	52	0.35
	Azores (P. Delgada) ...	30.23	55	WSW	3	b.c	30.03	-20	59	58	+8	W	2	c	4	b.c	#	61	51	0.20

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport. 0.0 hrs;



# WEATHER CHARTS

FOR *Saturday, 7<sup>th</sup> January, 1899.*

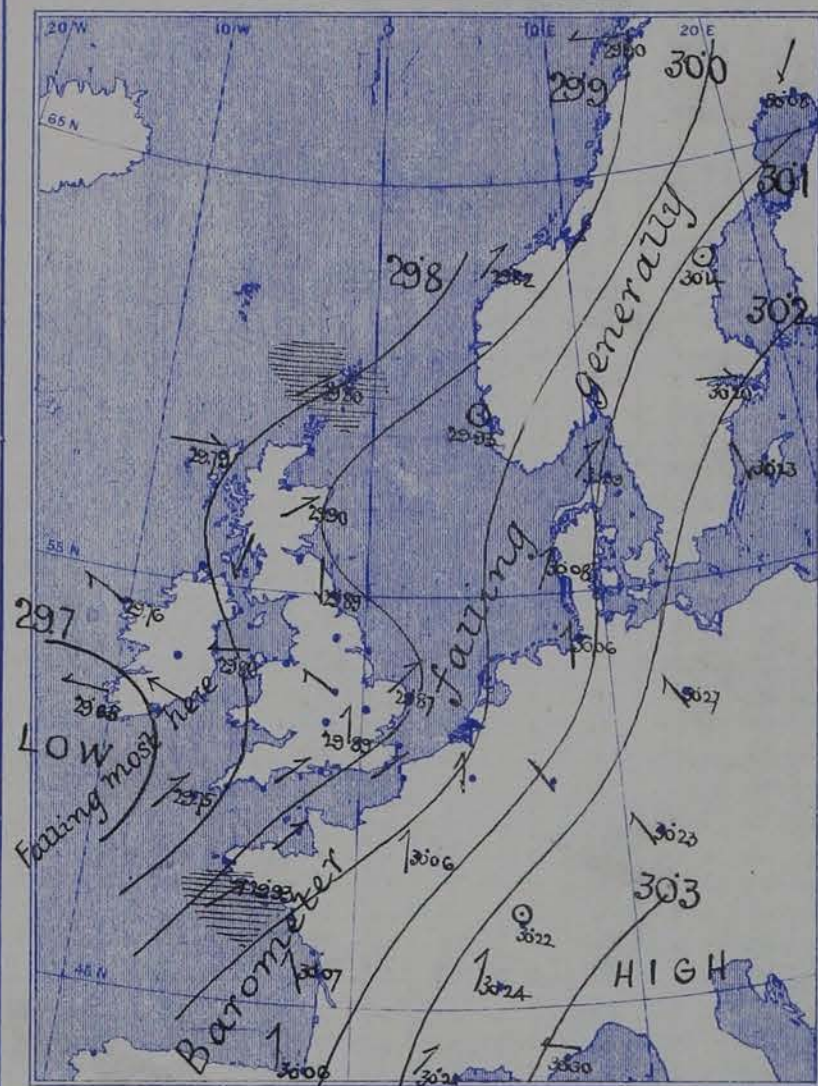
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

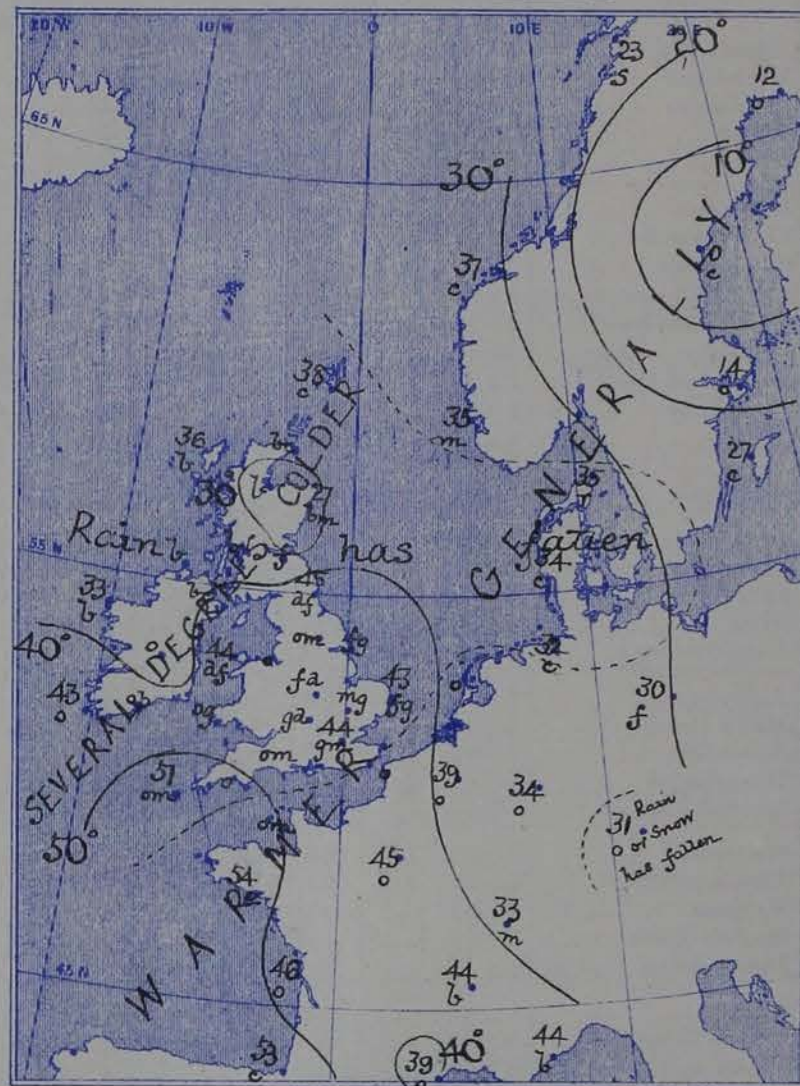


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.30 in: at Nice; 30.2 in: and upwards over the Baltic, eastern Germany, and the southern part of France.  
 Lowest, 29.7 in: and less, in a depression lying off our extreme southwest coast.  
 Gradients slight. Barometer falling in most places, — briskly, in the south of Ireland.

## TEMPERATURE

Highest, 54° at Lorient, 53° at Brest and Biaritz, 51° at Sicily, and 50° at Havre Point and Jersey.  
 Lowest, 0° zero at Helsingfors, 12° at Haparanda, and 14° at Stockholm; lowest in our Islands 27° at Aberdeen and 28° at Naun.  
 During yesterday the thermometer rose to 45° and upwards in most parts of the United Kingdom, to 50° on several parts of our south and southwest coasts and to 54° at Sicily.

## WIND

Light to moderate from the S<sup>W</sup> over England and the western parts of the Continent generally, but E<sup>3</sup> on the Irish coast, and calm or variable in Scotland.  
 Light from the SE<sup>W</sup> in Germany; N<sup>1</sup> or NW<sup>1</sup> in the south of Sweden; E<sup>3</sup> or NE<sup>3</sup> in the northern parts of Scandinavia.

## WEATHER

Cloudy or dull over Western Europe as a whole, with fog over the north of England and the south of Scotland, and slight rain at several of our southern stations. Rain is also falling at Gothenburg and Mager, and snow at Karlstad and Bodö.  
 Fine in the northern parts of Ireland and Scotland, and also in the southeast of France.  
 A little rain fell yesterday in most parts of the United Kingdom.

## SEA

Moderate or smooth generally, but rather rough at Lumburg Head.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday morning off our northwest coast has travelled away to the northward. A fresh disturbance is now appearing in the southwest, and unsettled weather is therefore likely to continue in most districts.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>TH</sup> JANUARY, 1899.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Variable breezes, finally SE <sup>3</sup> ; fair generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE <sup>3</sup> winds, light; cloudy, foggy in places, some rain.
3	ENGLAND EAST	S <sup>3</sup> winds, freshening; fair at first some rain later.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	E <sup>3</sup> and NE <sup>3</sup> winds, light; fair generally, but local fogs.
7	ENGLAND N.W.	E <sup>3</sup> winds, freshening; dull, some rain.
8	ENGLAND S.W.	S <sup>3</sup> winds, freshening; dull, rainy.
9	IRELAND NORTH	E <sup>3</sup> winds, fresh or strong; fine at first, some rain later.
10	IRELAND SOUTH	E <sup>3</sup> winds, strong; dull, rainy.

### WARNINGS

At 10.40 am today to districts 0, 1, and 6 "Lower Cone". Signals still flying in district 10 and part of 9.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes	30.25	35	34	2	0	m	2	Valencia	30.05	46	42	N	1	0	4
Sumburgh Head	29.81	43	40	SE	6	0	6	Scilly	30.04	52	51	SE	3	0/p	4
Stornoway	29.68	39	38	SW	5	bc	5	Jersey	30.20	48	46	SE	5	0	3
Aberdeen	29.90	39	37	S	8	og+g	7	Hurst Castle	30.20	49	47	S	2	om	2
Shields	30.05	38	37	S	3	0	2	Dungeness	30.23	46	46	SE	3	c	2
Ardrossan	29.92	46	45	W	4	0	4	North Foreland							
Malin Head	29.90	42	40	WNW	3	bc	3	London (Westminster)	30.22	48	46	SE	1	0	#
Belmullet	29.99	44	41	W	4	bc	#	Yarmouth	30.24	48	47	SE	3	c	3#
Holyhead	30.01	47	46	N	4	g+m	3	Rochefort	30.14	49	47	SE	2	bc	#

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

Weather in morning cloudy or dull over the United Kingdom generally, with rain at many of our western and southern stations. Fine over the western and southern parts of the Continent as a whole, but cloudy over the Spanish Peninsula. Dull over Sweden, Russia, Austria and eastern Germany, with rain at Neufahrwasser and snow at Helsingfors, Wiborg and Riga. A little rain falling later in nearly all parts of the United Kingdom, and weather becoming cloudy in neighbouring parts of the Continent.

Temperature risen in our Islands and also in Germany, Austria and Italy, fallen in most other countries. Morning readings highest 55° at Algiers, 54° at Lisbon, 53° at La Cella and Malta; (2) 52° at Scilly. Lowest 2° at Kiofio, 5° at Haparanda and 8° at Uleaborg; Considerably below the freezing point over northern and eastern Europe generally, and very little above it over Central England. Rising during day to between 45° and 50° in many parts of the United Kingdom, and to 54° at Scilly. Exceeding 50° also in the west and south of France, and reaching 61° at Biarritz.

Wind S<sup>2</sup> on most parts of our own western and northern coasts, with a gale in the extreme northwest, but W<sup>1</sup> in the west of Ireland. Light to moderate from the SE<sup>2</sup> over the greater part of England and France; W<sup>1</sup> or NW<sup>1</sup> over Denmark, Germany, and the south of Norway, N<sup>1</sup> over Sweden and northern Russia, with a whole gale at Wiborg. Calm or variable in Austria, N<sup>1</sup> or NW<sup>1</sup> over southern Italy, NE<sup>1</sup> over the Spanish Peninsula. Subsequently increasing to a gale from the S<sup>2</sup> in the north and east of Scotland, but wind subsiding on our extreme northwest coast.

Barometer highest 30.4 in: and upwards over Belgium and western and southern Germany; 30.2 in: and upwards in an anticyclone covering nearly the whole of Central and southern Europe, and extending over the greater part of England. Lowest 29.7 in: and less in a depression over the Baltic Provinces and the Gulf of Finland; 29.8 in: and less in another disturbance lying off the west of Scotland. Latter disturbance subsequently travelling northwards, but shallow depression appearing off our southwest coast.

### 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 Sunday 8<sup>th</sup> January, 1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.					
				At 32° and M.S.L.	Dry Bulb.			Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.				Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Max.	Min.
Ins.		°				Ins.	Ins.	°	°	°						°	°	Ins.			
SCANDINAVIA.	Haparanda ...	30.15	8	2	0	0	30.15	+ 0.7	-13	-14	- 25	NE	2	bc	#	0	#	14	?	-	
	Hernösand ...	29.93	23	N	4	5	29.88	- 2.6	6	6	+ 6	2	0	0	#	5	#	25	0	0.16	
	Stockholm ...	30.09	23	2	0	0	29.95	- 2.5	25	24	+ 11	2	0	b	#	0	#	25	9	-	
	Wisby ...	30.12	27	N	4	0	29.97	- 2.6	27	26	0	SSE	4	bc	#	0	#	28	23	-	
	Karlstad ...	29.95	32	SW	4	5	29.91	- 2.4	31	?	+ 14	SW	2	s	#	5	#	#	#	0.12	
	Bodö ...	29.84	23	E	4	0	29.60	- 3.0	19	17	- 4	E	6	b	2	0	#	23	18	-	
	Christiansund ...	29.77	35	SW	2	5	29.75	- 0.7	36	34	- 1	WSW	3	0	4	5	#	37	34	0.24	
	Skudesnaes ...	29.90	36	ESE	2	6	29.87	- 0.6	34	31	- 1	E	2	b	2	b	#	37	34	#	
	Færder (Christiania Fjord)	29.92	31	N	2	f	29.90	- 1.2	25	25	- 11	NNW	2	f	2	f	#	39	25	0.12	
	Skagen (The Scaw)	29.94	36	S	2	0	29.91	- 1.8	34	33	- 1	2	0	0	0	#	36	32	-		
BRITISH ISLANDS.	Fanö ...	29.89	33	S	2	0	29.86	- 2.2	34	33	0	NE	2	f	#	0	#	34	32	-	
	Sumburgh Head ...	29.79	36	2	0	c	29.76	- 0.4	36	34	- 2	2	0	bc	3	bc	#	42	34	0.03	
	Stornoway ...	29.67	37	SE	3	bc	29.57	- 2.2	42	41	+ 6	SSE	3	bc	3	o, bc	#	43	33	-	
	Wick ...	29.75	23	S	2	b	29.69	- 1.5	44	43	+ 9	S	5	0	4	b	#	44	33	0.05	
	Nairn ...	29.74	31	2	0	c	29.65	- 2.3	27	26	- 1	2	0	b	0	c	#	37	25	0.01	
	Aberdeen ...	29.77	33	WNW	1	0	29.68	- 2.2	35	38	+ 11	S	2	ofg	3	amv	#	42	27	0.01	
	Leith ...	29.71	41	NSW	3	r	29.54	- 3.4	37	38	+ 10	ENE	1	0	#	r	#	42	28	0.13	
	Shields ...	29.71	43	2	0	0	29.67	- 2.2	43	43	- 2	S	2	f	2	d, o	#	45	38	0.05	
	Spurn Head ...	29.74	42	S	3	0	29.71	- 1.4	42	42	0	S	3	off	3	0	#	43	41	0.03	
	York ...	29.72	42	ESE	1	f	29.68	- 1.8	44	44	+ 3	SSE	1	f	#	f	#	44	39	0.04	
GERMANY & HOLLAND.	Loughborough ...	29.74	44	ESE	1	0	29.71	- 1.6	42	42	0	ESE	1	amv	#	bc, o, c	#	47	42	0.18	
	Ardrossan ...	29.65	37	NNE	3	rf	29.58	- 2.7	40	40	+ 8	NNE	3	of	2	rf	#	40	32	0.20	
	Malin Head ...	29.52	44	SE	5	0	29.37	- 4.0	46	44	+ 11	SE	5	ogm	3	0	#	46	35	0.02	
	Belmullet ...	29.42	46	SSE	5	0	29.30	- 5.6	51	50	+ 18	SSE	5	0	#	bc, o	#	51	33	0.01	
	Donaghadee ...	29.60	48	SSE	6	0	29.52	- 3.1	49	48	+ 7	SSE	6	c	4	0	#	49	41	0.18	
	Liverpool (Bidston)	29.69	43	SE	3	0	29.64	- 2.0	44	43	+ 2	SE	2	bc	?	0	#	45	41	0.01	
	Holyhead ...	29.61	48	SE	3	0	29.53	- 2.7	48	47	+ 4	SE	4	0	3	am, o	#	49	43	0.08	
	Parsonstown ...	29.48	47	E	2	c	29.30	- 4.4	50	49	+ 13	NNE	2	0	#	c	#	50	31	0.02	
	Valencia ...	29.37	47	S	3	0	29.11	- 5.4	52	50	+ 9	SSE	7	og	6	og, o	#	52	42	0.38	
	Roche's Point ...	29.47	50	S	5	bc	29.26	- 4.3	52	52	+ 6	S	8	r	6	bc	#	52	46	0.18	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.68	50	S	4	c	29.50	- 2.8	51	50	+ 3	SSE	6	cq	5	c	#	51	47	0.40	
	Scilly ...	29.54	52	SSE	5	c	29.41	- 3.4	53	51	+ 2	SSE	7	omv	5	gp, c	#	55	50	0.11	
	Prawle Point ...	29.69	50	S	4	0	29.63	- 2.0	50	49	0	SSE	2	c	2	op, cp	#	52	48	0.07	
	Jersey (St. Aubin's)	29.82	53	SSW	3	c	29.74	- 1.8	48	47	- 2	SE	4	omv	3	og, p	#	55	45	0.02	
	Hurst Castle ...	29.76	52	SSW	4	0	29.74	- 1.5	50	48	+ 2	S	3	am	3	p, o	#	52	48	0.03	
	Dungeness ...	29.81	51	SSW	4	0	29.81	- 0.8	48	48	+ 1	SSW	3	c	3	r, o	#	50	46	0.03	
	North Foreland																				
	London (Brixton) ...	29.78	50	S	2	0.2	29.79	- 1.0	49	46	+ 4	S	2	c	#	c, ap, o	#	50	41	0.01	
	Oxford ...	29.74	49	S	1	0	29.73	- 1.5	47	46	+ 3	SE	1	ogp	#	0	#	50	43	0.07	
	Cambridge ...	29.76	46	SSE	2	d	29.76	- 1.3	45	44	+ 2	S	1	c	#	m, d	#	49	42	0.02	
PENIN- SULA.	Yarmouth ...	29.79	45	SSW	3	0	29.78	- 0.9	46	45	+ 3	SSW	3	c	3	omp	#	48	40	0.03	
	Cuxhaven ...	29.88	36	S	1	m	29.87	- 1.9	37	37	+ 5	2	0	f	#	m	#	37	32	0.04	
	Berlin ...	30.01	34	SSE	4	0	29.95	- 3.2	39	39	+ 9	2	0	0	#	0	#	39	30	-	
	Wiesbaden ...	#	#	#	#	#										#	#	#	#	-	
	Munich ...	30.18	31	S	1	b	30.06	- 1.7	31	31	0	SW	2	c	#	b	#	39	30	-	
	The Helder ...	29.83	42	SW	1	b	29.81	- 1.4	44	43	+ 11	SSW	2	m	0	b	#	45	32	0.04	
	Brussels ...	#	#	#	#	#	29.92	- 0.8	44	43	+ 5	SSE	2	0	#	0	#	47	38	0.04	
	Cape Gris Nez ...	?	48	SSW	6	0	?	?	49	45	+ 3	SSW	4	0	3	0	#	49	41	0.08	
	Paris ...	30.00	48	S	2	0	29.93	- 1.3	42	41	- 3	SSW	2	bc	#	0	#	50	41	-	
	Brest ...	29.73	53	SSW	4	0	29.68	- 2.8	53	51	0	SSE	4	b	4	0	#	55	48	-	
GERMANY & HOLLAND.	Lorient ...	29.82	54	SSW	6	r	29.67	- 2.6	52	52	- 2	SSW	4	c	5	r	#	57	48	-	
	Rochefort ...	29.96	50	S	3	c	29.85	- 2.2	45	44	- 1	SE	4	b	#	c	#	52	41	-	
	Belfort ...	30.10	44	2	0	m	30.05	- 1.7	39	38	+ 6	2	0	0	#	m	#	51	33	-	
	Lyons ...	30.11	49	S	2	q	30.04	- 2.0	47	45	+ 3	SE	2	cv	#	0	#	54	42	-	
	Nice ...	30.21	49	2	0	0	30.15	- 1.5	47	44	+ 3	E	4	c	3	0	#	54	41	-	
	Perpignan ...	30.10	46	W	1	c	29.99	- 2.2	39	39	0	SW	2	0	#	c	#	54	37	-	
	Biarritz ...	29.97	56	SSE	4	0	29.85	- 2.1	56	49	+ 3	S	3	b	2	0	#	57	52	-	
	Corunna ...																				
	Lisbon ...	30.04	57	S	4	0	29.80	- 3.9	58	55	+ 5	S	5	0	#	0	#	59	53	0.24	
	Azores (P. Delgada)	29.75	59	WNW	4	bc	29.78	- 2.5	53	50	- 6	NW	4	r	3	bc	#	63	52	0.20	

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport. 0.0 hrs;



# WEATHER CHARTS

FOR Sunday, 8<sup>th</sup> January, 1899.

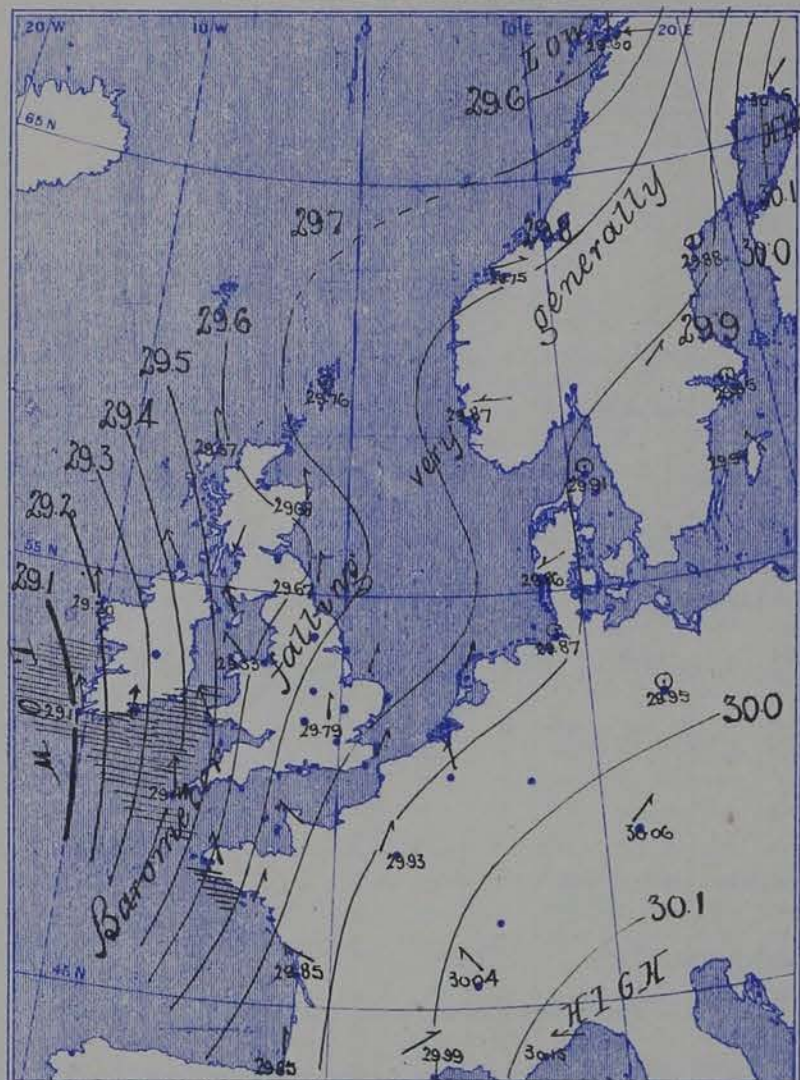
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

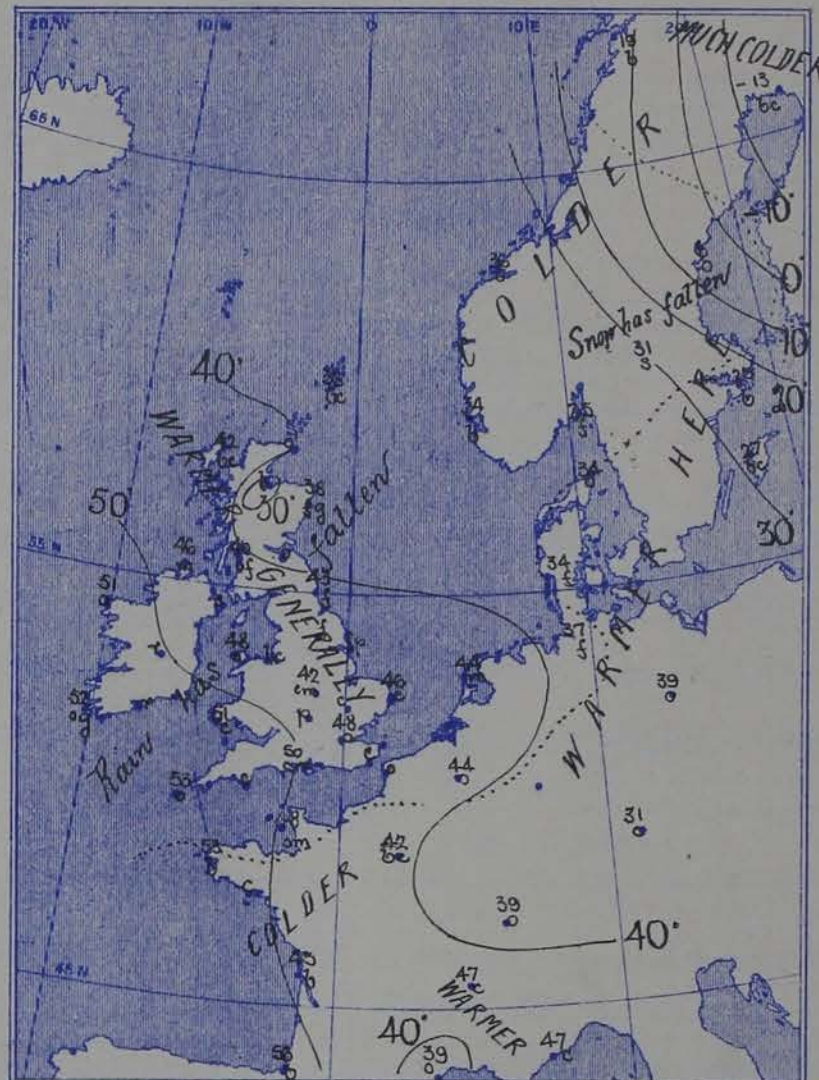


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway .....	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick .....	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn .....	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen .....	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith .....	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields .....	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head .....	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York .....	29.922	36.2	35.2	42.2	31.0	58	1872	3	1881	1.84	30.2	12
Loughborough ..	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan .....	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head .....	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet .....	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee .....	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead .....	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool .....	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown .....	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia .....	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point ..	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke .....	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly .....	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point.....	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey.....	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle.....	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover .....	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON .....	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford .....	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge .....	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth .....	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and upwards over the south coast of France and also over Lapland.  
 Lowest, 29.1 in. and less, in a depression lying off the southwest of Ireland.  
 Gradients rather steep over our western coasts and also over the north of Scandinavia, but slight elsewhere.  
 Barometer falling generally, but inclined to rise again at Valencia (Ireland).

## TEMPERATURE

Highest, 58° at Lisbon, 56° at Biarritz, 53° at Lill, and 52° at Valence (Ireland), Rockville and Lorient.  
 Lowest, -13° F. at Haparanda, +6° at Helsingfors, 19° at Bodö and 25° at Stockholm, lowest in our Islands 27° at Naun.  
 During yesterday, the thermometer rose to 50° and upwards at most of our western and southern stations and to 55° at Lill and Jersey.

## WIND

S or SE over our Islands, the Netherlands, and the greater part of France; strong in force on many parts of our western coast with a gale at Rockville.  
 Calm or variable over Denmark, north Germany, and the southern part of Scandinavia; E or NE in the north of Scandinavia.

## WEATHER

Cloudy or dull over Western Europe as a whole, with fog at several of our own northern stations, rain in the south of Ireland, passing showers at Oxford.  
 Fine over the greater part of France, as well as in the Shetlands, the Hebrides, and at many of the Scandinavian stations, but snow falling at Harstad.  
 Rain fell yesterday in nearly all parts of northwestern Europe, but the amount was mostly slight.

## SEA

Rough on our southwest coasts, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 9<sup>TH</sup> JAN<sup>Y</sup> 1899.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED.

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

NONE ISSUED.

## WARNINGS

At 3 pm yesterday to districts 7, 8, and parts of 5 and 9, at 9.15 am today to districts 0, 6, 10 & the remainder of 9. Hoist South Cone.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.72	37	36	2	0	b	3	Valencia	29.41	50	48	SSW	5	ogp	5
Sumburgh Head	29.82	41	38	SW	1	b	4	Scilly	29.64	52	51	SSW	5	ogp	5
Stornoway	29.75	43	41	SSW	3	0	3	Jersey	29.86	53	52	SSW	4	0	4
Aberdeen	29.83	32	31	W	2	cm	3	Hurst Castle	29.79	52	51	SSW	4	op	2
Shields	29.76	43	42	NE	2	oa	3	Dungeness	29.83	49	49	SSW	4	v	3
Ardrossan	29.77	35	35	NNE	3	rf	2	North Foreland							
Malin Head	29.61	42	40	ESE	5	0	3	London (Westminster)	29.81	51	48	SSW	2	0	#
Belmullet	29.54	41	40	ESE	4	bc	*	Yarmouth	29.81	45	44	SSW	2	cm	3
Holyhead	29.67	48	46	SE	3	cm	2	Rocheport	30.00	50	48	SSW	4	c	#

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

Weather in morning, cloudy or dull over Europe as a whole, with fog in the north of England and the south of Scotland as well as in many parts of Germany, and slight rain at some of our own southern stations. Rain falling also at Trondheim and Skagen, and at Brindisi, and snow at Bodö, Karlstad and Vienna. Fine in the northern parts of Ireland and Scotland, as well as over the greater part of Italy, France, and the Mediterranean. Rain falling later over northwestern Europe generally, but amount mostly slight.

Temperature fallen in the west and north of our Islands, and also in Denmark, Germany, and Italy, risen elsewhere. Morning readings highest 59° at Algiers, 55° at Barcelona and Languedoc, and 54° at Lorient. Lowest 4° F. at St. Petersburg, 0° F. at Hunsrück, +1° at Archangel and 6° at Kuopio; below the freezing point in northern, eastern and central Europe generally, and also in the eastern and central parts of Scotland. Rising during day to 50° and upwards at most of our own western and southern stations, and to 55° at Scilly and Jersey; exceeding 50° at some stations in the west and south of France and reaching 59° at Lisbon.

Wind light to moderate from the S.W. over the south of England, and also over the Netherlands, Denmark, and the greater part of France; E or S.E. over Ireland and the north of England; S.W. in the north of Scotland; N or N.W. over the south of Sweden and the west and south of Russia; W in Austria; variable in Italy; E over the Spanish Peninsula. Subsequently freshening from the S.W. or S.E. over our own western coast; no important change occurring elsewhere.

Barometer highest 30.3 in. and upwards over Central Spain, over Switzerland, Italy, and the neighbouring parts of the Mediterranean, and over Austria and Eastern Germany. 30.1 in. and upwards in an anticyclone extending from Central and southern Europe over the Baltic and the greater part of Sweden. Lowest 29.7 in. and less, in a depression off our own southwest coast; 29.8 in. and less, in another depression over the southern parts of Russia. Depression in southwest moving northwards later, and becoming 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.

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" Weekly " " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on *Monday, 9<sup>th</sup> January,* 1899.  
 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.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.				Force (0 to 12.)	Max.	Min.	Rainfall.	
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	30.07	-7	NE	2	bc	29.95	-2.0	-5	-6	+18	2	0	0	#	bc	#	9	-17	-	
	Hernösand ...	29.88	19	N	2	S	29.80	-0.08	20	19	+14	N	2	?	#	S	#	23	1	0.16	
	Stockholm ...	29.93	28	2	0	0	29.89	-0.06	21	20	-4	2	0	0	#	0	#	30	19	-	
	Wisby ...	29.97	29	SSE	4	r	29.95	-0.02	29	26	+2	SSE	4	0	#	0	#	29	23	-	
	Karlstad ...	29.91	29	SSW	2	0	29.85	-0.06	29	28	-2	S	2	0	#	0	#	#	#	-	
	Bodo ...	29.57	18	E	6	b	29.50	-0.10	20	17	+1	E	5	6	2	b	#	20	18	-	
	Christiansund ...	30.09	36	SW	5	S	29.66	-0.09	35	33	-1	SW	3	C	4	S	#	37	32	0.24	
	Skudesnaes ...	29.85	37	E	2	0	29.66	-0.21	36	36	+2	SSE	4	r	3	0	#	36	34	#	
	Færder (Christiania Fjord)	29.87	26	N	1	m	29.82	-0.08	26	26	+1	NW	2	f	1	m	#	27	23	-	
	Skagen (The Scaw)	29.91	33	SSE	1	0	29.82	-0.09	36	35	+2	SSE	2	r	0	0	#	36	32	-	
BRITISH ISLANDS.	Fanø ...	29.88	36	NE	2	f	29.82	-0.04	40	40	+6	SW	2	C	#	f	#	41	34	-	
	Sumburgh Head	29.72	40	E	2	0	29.34	-0.42	44	44	+8	E	3	r	4	0	#	44	34	0.65	
	Stornoway ...	29.47	45	SE	4	a	29.20	-0.37	46	45	+4	SW	5	C	5	0, a	0.0	49	38	0.60	
	Wick ...	29.61	45	S	5	0	29.29	-0.40	47	46	+3	S	3	0	5	0	#	47	42	0.35	
	Nairn ...	29.56	38	2	0	r	29.29	-0.36	49	46	+22	2	0	C	1	r	#	50	25	0.15	
	Aberdeen ...	29.62	44	S	2	ogm	29.37	-0.31	44	43	+6	S	2	bcn	2	ogmr	0.0	45	38	0.06	
	Leith ...	29.57	42	E	2	r	29.38	-0.16	50	46	+11	SSW	1	0	#	r	#	51	37	0.07	
	Shields ...	29.62	46	SE	3	r	29.48	-0.19	43	43	0	S	3	0	3	f, p	#	47	42	-	
	Spurn Head ...	29.68	44	SSE	4	C	29.56	-0.15	41	41	-1	SSE	3	bcw	3	0, C	#	46	40	-	
	York ...	29.66	47	S	1	om	29.54	-0.14	40	40	-4	S	1	f	#	om	0.0	47	40	0.01	
GERMANY & HOLLAND.	Loughborough ...	29.68	47	SE	3	C	29.58	-0.13	43	42	+1	SSE	1	om	#	bc, c, b, m	#	54	42	-	
	Ardrossan ...	29.47	43	NHE	3	nf	29.37	-0.21	47	47	+7	SSE	2	0	2	rf	#	47	39	0.15	
	Malin Head ...	29.25	50	SSE	6	ogm	29.26	-0.11	43	41	-3	S	4	cm	3	0, ogm	#	51	43	0.02	
	Belmullet ...	29.09	50	S	5	r	29.26	+0.06	45	43	-6	S	3	0	#	0, r	#	54	41	0.29	
	Donaghadee ...	29.41	52	SSE	6	0	29.40	-0.12	44	44	-5	SW	4	C	3	0	#	52	43	0.10	
	Liverpool (Bidston)	29.56	48	ESE	4	0	29.48	-0.16	46	44	+2	SE	2	bc	3	om	#	50	43	-	
	Holyhead ...	29.48	52	SE	5	op	29.42	-0.11	48	48	0	SW	1	am	1	op	#	54	47	0.04	
	Parsonstown ...	29.22	52	SE	2	r	29.37	+0.07	40	39	-10	2	0	0	#	ogj	0.0	53	31	0.09	
	Valencia ...	29.12	46	SSW	2	rm	29.27	+0.16	47	44	-5	SE	3	0	4	rm	0.0	52	42	0.60	
	Roche's Point ...	29.15	53	S	8	p	29.35	+0.09	48	47	-4	SSW	4	C	5	p	#	54	45	0.20	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.43	52	SSE	7	0	29.42	-0.08	48	47	-3	SW	5	r	6	0	0.1	53	46	0.37	
	Seilly ...	29.33	55	SSE	8	0	29.39	-0.02	51	50	-2	S	3	r	5	0	0.5	56	49	0.23	
	Prawle Point ...	29.57	50	SSE	5	0	29.49	-0.14	50	49	0	SSE	4	C	3	0	#	53	48	-	
	Jersey (St. Aubin's)	29.67	51	ESE	4	b	29.57	-0.17	49	46	+1	SE	4	bw	3	bc, b	#	51	46	-	
	Hurst Castle ...	29.68	50	SSE	4	b	29.58	-0.16	49	47	-1	SSE	3	bm	3	b	#	52	48	-	
	Dungeness ...	29.78	49	S	3	b	29.67	-0.14	49	48	+1	S	4	b	4	bc, b	#	51	48	-	
	North Foreland																				
	London (Brixton) ...	29.74	47	SSE	2	bc	29.62	-0.17	47	45	-1	S	2	b	#	bc, ogj	#	56	45	-	
	Oxford ...	29.70	47	SE	2	e	29.59	-0.14	44	43	-3	SSE	1	bw	#	C	#	53	43	-	
	Cambridge ...	29.74	48	S	2	0	29.61	-0.15	43	42	-2	S	2	bmw	#	0	0.4	53	42	-	
PENIN- SULA.	Yarmouth ...	29.78	45	SSE	3	bc	29.66	-0.12	43	42	-3	S	3	b	4	bc	#	47	41	0.01	
	Cuxhaven ...	29.86	43	SW	1	f	29.86	-0.01	36	36	-1	S	1	fa	#	f	#	43	36	0.16	
	Berlin ...	29.95	40	SW	2	#	29.98	+0.03	40	39	+1	SW	2	0	#	0	#	41	39	0.08	
	Wiesbaden ...	#	#	#	#	#	29.99		31	31		NW	1	0	#	#	#	43	31	-	
	Munich ...	30.07	33	SE	4	b	30.04	-0.02	28	28	-3	SE	2	b	#	b	#	39	27	-	
	The Helder ...	29.84	39	2	0	f	29.76	-0.05	35	35	-9	SSE	1	bc	0	f	#	46	34	0.04	
	Brussels ...	#	#	#	#	#	29.82	-0.10	39	38	-5	SSE	2	b	#	b	#	52	38	-	
	Cape Gris Nez ...	?	51	S	3	bc	?		45	42	-4	S	4	C	4	bc	#	54	41	-	
	Paris ...	29.87	48	SE	2	b	29.79	-0.14	41	39	-1	SE	2	b	#	b	#	55	39	-	
	Brest ...	29.50	53	SSE	5	C	29.52	-0.06	51	50	-2	SE	1	C	4	C	#	55	48	-	
PENIN- SULA.	Lorient ...	29.60	52	S	5	C	29.52	-0.15	51	50	-1	S	3	bc	5	C	#	55	43	-	
	Rochefort ...	29.74	51	S	3	b	29.65	-0.20	48	46	+3	SE	4	b	#	bc, b	#	55	43	-	
	Belfort ...	30.01	41	NE	1	C	29.97	-0.08	35	33	-4	2	0	b	#	C	#	47	33	-	
	Lyons ...	29.98	50	S	2	b	29.91	-0.13	48	?	+1	S	2	C	#	b	#	55	47	-	
	Nice ...	30.12	46	ENE	2	r	30.03	-0.12	44	43	-3	E	1	0	2	r	#	50	43	0.35	
	Perpignan ...	29.94	43	2	0	0	29.87	-0.12	50	48	+11	S	2	0	#	0	#	50	39	-	
	Biarritz ...	29.72	60	SE	3	b	29.63	-0.22	61	52	+5	S	4	0	3	b	#	64	54	-	
	Corunna ...																				
	Lisbon ...	29.65	48	WSW	3	r	29.69	-0.11	49	48	-9	NW	3	r	#	r	#	61	48	1.14	
	Azores (P. Delgada)	29.87	59	NW	3	0	29.90	+0.12	60	57	+7	NW	3	C	4	0	#	61	52	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 Monday, 9<sup>th</sup> January, 1899.

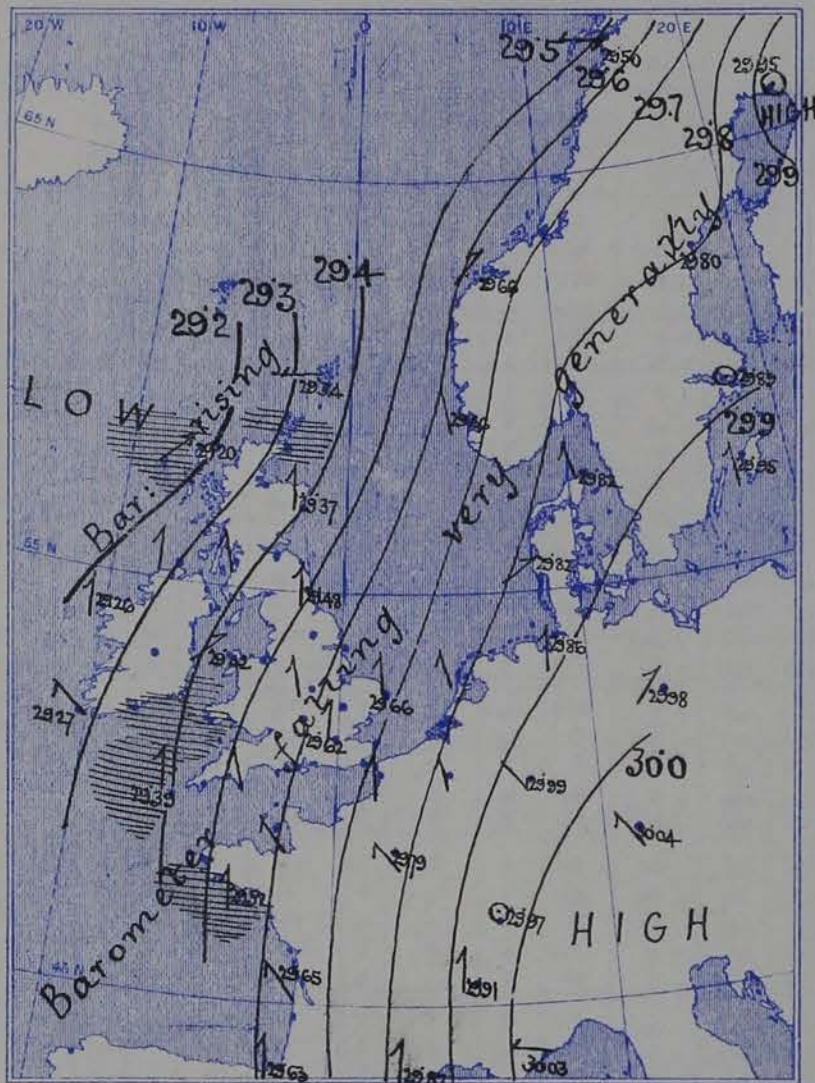
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

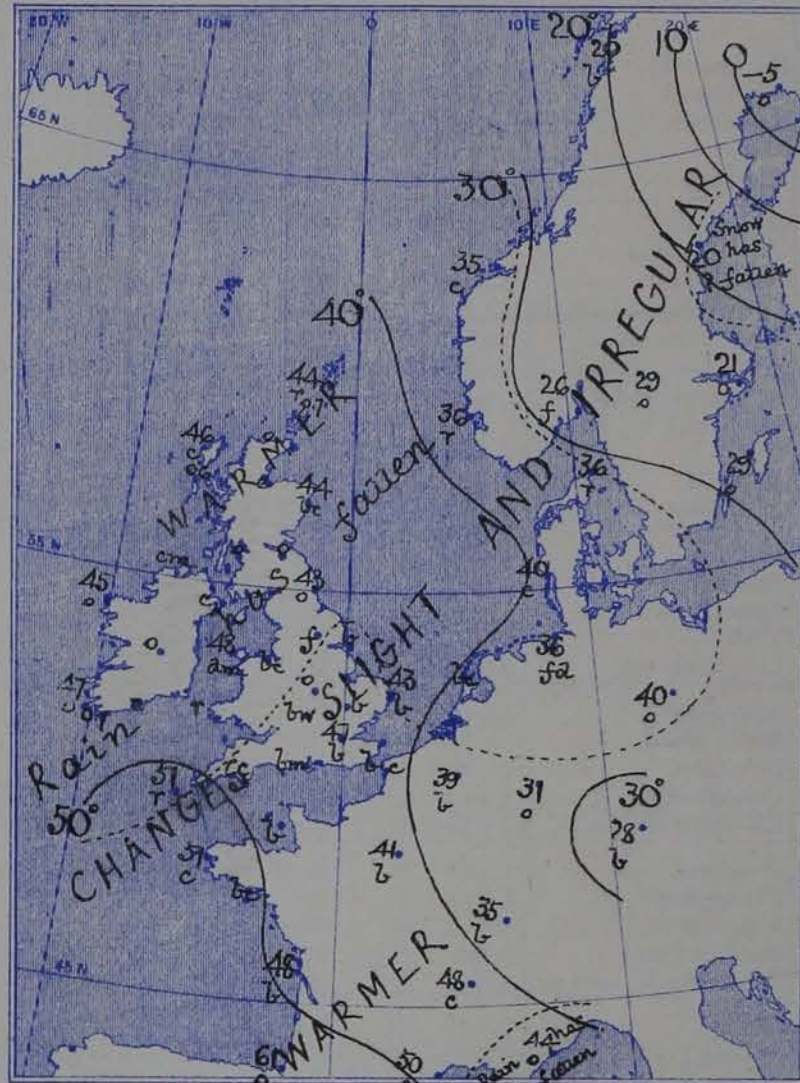


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.0 in: and upwards over South Germany.  
 Lowest, 29.2 in: and less, in a depression lying to the northward of our Islands.  
 Gradients moderate. Barometer falling generally, but rising on our own northwest coasts.

## TEMPERATURE

Highest, (1) 61° at Biarritz 51° at Scilly, Brest, and Lorient, and 50° at Haulbowitz and Perpignan; (2) 50° at Leth and 49° at Nami.  
 Lowest, -5° F. at Haparanda, +20° at Bodö and Helsingfors, and 21° at Stockholm; lowest in our Islands 40° at York and Karsnaöarna.  
 During yesterday, the thermometer rose to 50° and upwards in many parts of the United Kingdom, and to 56° in London and at Scilly.

## WIND

Light to moderate from the S<sup>W</sup> and SE<sup>W</sup> over Western Europe as a whole, but SW' on some parts of our own western coasts.  
 Calm or variable over the Gulf of Bothnia.

## WEATHER

Fine over the eastern and central parts of England and also over France and the Netherlands.  
 Cloudy or dull elsewhere, with rain in the southwest of England and also at Lumburgh H<sup>l</sup> and Skudermoes.  
 Rain fell yesterday, in the west and north of our Islands generally, the largest amounts being 0.7 in at Lumburgh H<sup>l</sup> and Valencia (Ireland) and 0.6 in at Hovsøy.

## SEA

Rather rough on our southwestern and extreme northern coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is rising on our northwest coasts, but is falling again in the southwest, with a backing wind at Valencia (Ireland). Another depression is probably advancing from the southwestward, and is likely to cause further unsettled weather on all our western coasts.

## FORECASTS

For the 24 hours ending at NOON on 10<sup>TH</sup> JAN 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
† 0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES † 5 ENGLAND SOUTH	} S <sup>W</sup> to SE <sup>W</sup> winds, moderate; fair generally.  } Same as N° 5  } S <sup>W</sup> winds, light or moderate; fair, mild.	† 6 SCOTLAND WEST † 7 ENGLAND N.W. † 8 ENGLAND S.W. † 9 IRELAND NORTH † 10 IRELAND SOUTH	} S <sup>W</sup> and SE <sup>W</sup> winds, freshening, fair at first, some rain later. } S <sup>W</sup> and SE <sup>W</sup> winds, increasing in force; dull, some rain. } Same as N° 6 and 7. } Same as N° 8. } The South Cone is still flying in districts 0, 6 to 10, and part of 5.
WARNINGS			

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.88	36	34	ESE	2	0	2	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.55	44	43	SE	4	0	4	Jersey ...	29.71	51	49	SE	5	6c	4
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.78	50	49	S	3	6c	3
Ardrossan ...								North Foreland							
Malin Head ...	29.28	49	49	SE	6	0	4	London (Westminster)							#
Belmullet ...	29.14	53	51	SE	6	0	*	Yarmouth ...							
Holyhead ...								Rochefort ...	29.80	55	53	S	4	6c	#

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

*Continental Information not received.*

### SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 1<sup>st</sup> TO THE 7<sup>th</sup> JANUARY 1899.

During the earlier half of the week two high pressure systems were in existence, — one over the extreme northern and the other over the southern parts of Europe. Over all the western and central countries the weather was affected in the first instance by a deep depression the centre of which appeared off our own extreme northwestern coast, and by a secondary system which formed over the southern parts of the North Sea. Strong winds or gales were experienced over nearly the whole of Europe, — from the E<sup>nd</sup> (SE to NE) in all the more northern countries, and from the W<sup>nd</sup> or NW<sup>nd</sup> in the more southern regions, the weather being very changeable with rain and snow in most districts. After the 2<sup>nd</sup> the depression off our northwest coast moved northwards and partially filled up, while the secondary system travelled southwards across Central Europe, but on the 3<sup>rd</sup> and 4<sup>th</sup> two new disturbances moved northwards along our extreme western coast, and occasioned gales in some parts of Ireland and Scotland.

The northern high pressure area now gave way, while the anticyclone in the southwest moved eastwards and also spread out over Central Europe. A decided improvement in the weather was therefore reported over the Continent, and some improvement over the eastern and southern parts of the United Kingdom. On our western and northern coasts, however, the conditions were still influenced by cyclonic systems which advanced in quick succession from the Atlantic, and which travelled in a north-northeasterly direction, each disturbance producing strong winds or gales from the southward, and general, though as a rule, not heavy, falls of 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.

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 „ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on Tuesday 10<sup>th</sup> January, 1899.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				At 32° and M.S.L.	Dry Bulb.		Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Dir.	Force (0 to 12.)	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
	Hernösand ...	29.83	5	2	0	0	29.66	-29	13	13	+18	SE	2	0	#	0	#	2	-13	—	
	Stockholm ...	29.72	22	2	0	0	29.50	-30	22	22	+2	2	0	0	#	0	#	22	16	0.04	
	Wisby ...	29.80	27	2	0	5	29.66	-23	35	35	+14	SW	2	f	#	5	#	35	19	0.04	
	Karlstad ...	29.24	34	S	4	S	29.77	-18	36	36	+7	SSW	4	f	#	S	#	36	25	0.04	
		29.69	34	2	0	f	29.61	-24	36	35	+7	S	2	f	#	0.5	#	#	#	0.12	
	Bodö ...	29.50	19	E	4	b	29.37	-13	22	?	+2	E	4	0	1	b	#	22	16	—	
	Christiansund ...	29.45	34	SE	3	S	29.33	-33	36	35	+1	SE	2	S	4	S	#	36	34	0.12	
	Skudesnaes ...	29.50	44	SSE	6	0	29.34	-32	45	44	+9	S	6	0	4	0	#	45	34	#	
	Færder (Christiania Fjord)	29.64	29	N	1	f	29.55	-27	39	39	+13	S	4	f	2	f	#	39	25	0.24	
BRITISH ISLANDS.	Skagen (The Scaw)	29.69	37	S	2	m	29.57	-25	37	37	+1	S	4	m	1	m	#	39	36	0.04	
	Fanö ...	29.71	38	SSW	2	b	29.57	-25	35	35	-5	SSE	4	b	#	b	#	41	35	—	
	Sumburgh Head	29.25	43	2	0	c	29.08	-26	45	45	+1	S	2	0	3	c	#	47	40	0.36	
	Stornoway ...	29.18	44	SW	4	b	28.92	-28	45	44	-1	SE	4	0	4	0.5	0.0	46	40	0.20	
	Wick ...	29.27	44	S	3	bc	29.00	-29	44	42	-3	S	3	bc	3	bc	#	47	38	0.05	
	Nairn ...	29.23	42	2	0	c	28.98	-31	40	38	-9	2	0	c	1	c	#	49	32	0.01	
	Aberdeen ...	29.18	45	SSW	2	ogr	29.06	-31	43	42	-1	S	5	ogr	3	om. org	0.0	46	40	0.11	
	Leith ...	29.28	46	2	0	r	29.04	-34	43	42	-7	2	0	0	#	r	#	50	38	0.20	
	Shields ...	29.31	46	SSE	3	m	29.13	-35	45	44	+2	SSE	3	p	2	am. m	#	47	41	—	
	Spurn Head ...	29.37	44	SSE	5	b	29.22	-34	45	40	+4	SSE	4	bc	4	b. bc	#	46	40	—	
GERMANY & HOLLAND.	York ...	29.34	46	S	2	b	29.18	-36	45	44	+5	S	1	op	#	0.5	0.0	47	39	0.04	
	Loughborough ...	29.38	48	S	3	0	29.22	-36	47	45	+4	S	3	cp	#	bc. op. c	#	51	43	0.02	
	Ardrossan ...	29.20	46	NNE	3	rf	29.01	-36	46	46	-1	SSE	3	c	3	0. rf	#	47	43	0.24	
	Malin Head ...	29.09	44	S	3	c	28.94	-32	42	41	-1	SSW	3	bc	2	bc. c	#	44	41	—	
	Belmullet ...	29.08	45	SSE	4	bc	28.98	-28	45	39	0	WSW	6	0	#	r. bc	#	45	39	0.09	
	Donaghadee ...	29.17	47	SSW	5	c	29.04	-36	43	42	-1	WSW	4	c	2	c	#	48	37	0.07	
	Liverpool (Bidston)	29.29	48	SE	3	0	29.12	-36	44	43	-2	SE	2	bc	2	om. p	#	48	42	0.14	
	Holyhead ...	29.25	46	SE	1	rmg	29.08	-34	44	43	-4	W	3	rgm	2	r. rgm	#	48	43	0.62	
	Parsonstown ...	29.09	47	SE	1	0	29.09	-28	36	35	-4	SE	1	b	#	0	1.8	49	36	0.15	
	Valencia ...	29.06	43	SSW	1	b	29.11	-16	42	38	-5	SSE	4	bc	4	r. c. b	0.7	49	41	0.45	
FRANCE & BELGIUM.	Roche's Point ..	29.10	49	SSW	5	cg	29.17	-18	41	39	-7	WSW	2	bc	4	c	#	53	39	0.30	
	Pembroke (St. Ann's Hd.)	29.24	50	SW	5	c	29.16	-26	47	45	-1	WNW	5	bc	4	r. c	0.0	50	43	1.12	
	Scilly ...	29.22	51	S	4	cp	29.24	-15	48	44	-3	W	4	c	4	cp	0.8	54	44	0.09	
	Prawle Point ...	29.35	50	S	3	r	29.20	-29	44	43	-6	WNW	4	cp	3	cp	#	51	43	0.53	
	Jersey (St. Aubin's)	29.47	52	SSW	4	cg	29.31	-26	50	49	+1	SSW	5	og	4	bc. cg	#	53	48	—	
	Hurst Castle ...	29.41	52	S	4	0	29.27	-31	50	48	+1	SSW	5	cm	3	c. 0	#	53	48	—	
	Dungeness ...	29.53	50	SSE	5	bc	29.39	-28	50	49	+1	S	6	c	5	b. bc	#	51	48	—	
	North Foreland															#					
	London (Brixton) ...	29.47	54	S	4	c	29.34	-28	49	46	+2	SSW	5	cg	#	b. op	4.7	54	46	—	
	Oxford ...	29.38	50	SE	4	0	29.25	-34	47	45	+3	SSE	4	b	#	0	#	52	44	0.01	
GERMANY & HOLLAND.	Cambridge ...	29.45	45	S	3	0	29.31	-30	48	46	+5	SSW	3	0	#	b. 0	5.2	54	41	—	
	Yarmouth ...	29.50	45	SSE	5	bc	29.36	-30	47	45	+4	S	4	bc	4	b. bc	#	47	42	—	
	Cuxhaven ...	29.75	39	S	2	b	29.62	-24	36	35	0	S	2	b	#	b	#	39	36	—	
	Berlin ...	29.93	39	SSE	3	b	29.84	-14	32	31	-8	SSE	3	b	#	b	#	45	32	—	
	Wiesbaden ...	#	#	#	#	#	29.82	-17	29	29	-2	NW	1	0	#	#	#	39	28	—	
	Munich ...	29.94	31	SE	2	b	29.89	-15	22	22	-6	NE	3	b	#	b	#	41	21	—	
	The Helder ...	29.63	40	S	1	b	29.49	-27	41	40	+6	S	2	b	1	b	#	46	35	—	
	Brussels ...	#	#	#	#	#	29.60	-22	45	42	+6	SSE	3	c	#	b	#	53	39	—	
	Cape Gris Nez ...	?	50	S	5	c	?	?	49	45	+4	S	4	bc	3	c	#	52	41	—	
	Paris ...	29.67	49	SSE	2	b	29.60	-19	47	44	+6	S	3	r	#	b	#	55	41	—	
FRANCE & BELGIUM.	Brest ...	29.38	51	S	4	0	29.30	-22	48	47	-3	W	4	r	5	0	#	54	45	0.20	
	Lorient ...	29.47	51	S	5	c	29.41	-11	48	47	-3	W	5	r	5	c	#	57	43	0.08	
	Rochefort ...	29.60	52	SSE	4	c	29.60	-05	52	50	+4	S	5	0	#	c	#	55	45	—	
	Belfort ...	29.86	39	NE	2	b	29.81	-16	37	35	+2	2	0	bc	#	b	#	48	33	—	
	Lyons ...	29.84	52	S	3	0	29.77	-14	51	45	+3	S	3	ov	#	0	#	55	48	—	
	Nice ...	29.97	52	E	7	bc	29.93	-10	48	45	+4	E	3	0	4	bc	#	55	44	—	
	Perpignan ...	29.84	52	S	2	b	29.78	-09	45	45	-5	2	0	0	#	b	#	60	44	—	
	Biarritz ...	29.60	60	SW	4	c	29.67	+04	54	52	-7	SSW	4	0	3	c	#	63	52	—	
	Corunna ...															#					
	PENIN- SULA.	Lisbon ...	29.89	53	SW	3	0	29.99	+30	54	50	+5	W	3	b	#	0	#	55	49	0.51
Azores (P. Delgada)		29.99	58	N	4	0	30.15	+25	54	50	-6	NNW	3	c	3	0	#	64	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. 0.0 hrs;



# WEATHER CHARTS

FOR Tuesday, 10<sup>th</sup> January, 1899.

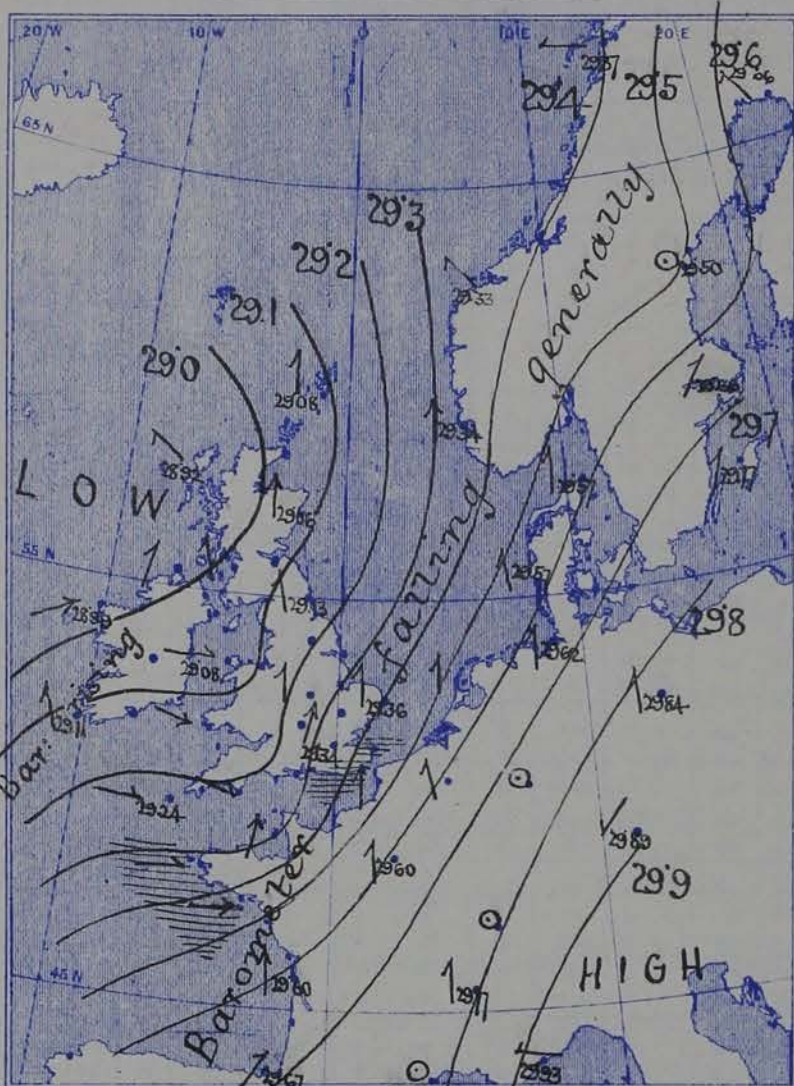
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ ; High ≡

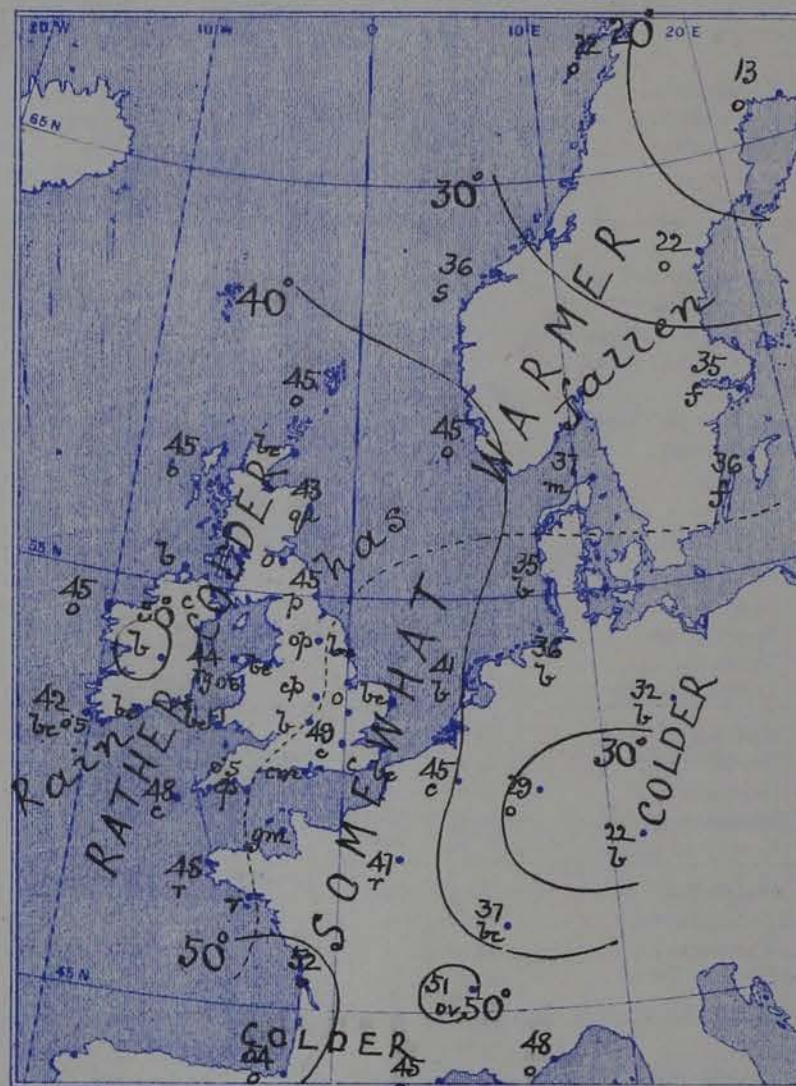


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	5.48	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	2.90	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	3.26	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	2.18	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.99	50.8	21
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	6.31	56.1	22
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	5.33	—	—
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	3.71	53.6	21
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	—	—	—
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest 29.9 ins. and upwards over the S.E. of France, and also over the <sup>in</sup> parts of the Spanish Peninsula.</p> <p>Lowest 28.9 ins. and less (apparently) in a depression lying off the W. of Scotland.</p> <p>Gradients moderate or slight generally.</p> <p>Barometer falling generally, but rising in the W. of Ireland.</p>
TEMPERATURE	<p>Highest 54° at Biarritz and Lisbon, 52° at Rochefort, 51° at Lyons, and 50° at Hurst Castle, Dungeness and Jersey.</p> <p>Lowest (1) 13° at Haparanda, and 22° at Bodø and Herøya, (2) 22° at Munich and 29° at Wiesbaden; lowest in our Islands, 36° at Parsonstown, and 40° at Nairn.</p> <p>During yesterday the thermometer rose to 50° and upwards at most of our central and S. stations, and to 54° at Scilly, London and Cambridge.</p>
WIND	<p>S. (SE. to SW.) over western Europe as a whole, light or moderate in force generally, but fresh in the south of England and the west of France.</p> <p>W. on the coasts of Wales and the southwest of England.</p>
WEATHER	<p>Cloudy or dull in most places, with showers in many parts of England, steady rain in the N. of France, and snow at Christiansund. Fog was general in the S. of Sweden.</p> <p>Fine in the S. of Ireland, and also in Holland, Denmark and Germany.</p> <p>Rain fell yesterday in the W. and N. of our Islands generally, the largest amount being 1.1 in. at Pembroke, and 0.6 in. at Holyhead; snow fell in Sweden.</p>
SEA	<p>Moderate to smooth generally, but rather rough off the N.W. of France.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions continue to move N.W. along our extreme W. coast, and secondary systems are now beginning to advance more immediately over the Kingdom. Changeable showery weather is probable in most districts, with lower temperatures over England.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>TH</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

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

<sup>24</sup>S. and <sup>24</sup>SE winds, freshening, changeable, some showers.

<sup>24</sup>SW. to <sup>24</sup>W. winds, backing later, changeable, some showers, rather cooler.

### DISTRICTS.

### FORECASTS.

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

Same as Nos. 0 to 2

<sup>24</sup>W. to <sup>24</sup>S. winds, increasing in force, fair at first, some rain later.

<sup>24</sup>S. winds, increasing in force, dull, some rain.

None issued.

### WARNINGS

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	29.56	42	42	SSE	6	o	4	Valencia	29.08	49	47	S	4	c	5
Sumburgh Head	29.25	46	45	W	2	c	4	Scilly	29.30	52	51	S	4	c	5
Stornoway	29.20	46	45	SW	4	o	4	Jersey	29.49	53	50	SSE	4	bc	3
Aberdeen	29.35	45	44	S	2	cm	2	Hurst Castle	29.49	51	48	S	3	c	3
Shields	29.40	44	44	SSW	2	cm	2	Dungeness	29.58	50	49	S	4	b	4
Ardrossan	29.19	47	47	Z	0	o	2	North Foreland							
Malin Head	29.19	43	42	S	3	bc	3	London (Westminster)	29.51	53	48	S	3	b	#
Belmullet	29.16	45	43	SE	4	r	*	Yarmouth	29.57	45	44	SSE	3	b	4
Holyhead	29.33	46	46	SW	1	rf	1	Rochefort	29.64	54	50	SSE	4	bc	#

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

Weather in morning fine over the *E<sup>m</sup>* and central parts of England, and also over France and the Netherlands. Cloudy or dull elsewhere, with rain in the SW. of England, and also in the Shetlands and at Skudesnaes, Skagen, Breslaw, Pesaro and Lisbon; snow reported at Hango and Lemberg, and fog in many parts of Germany and Austria. Rain falling later in the W. and N. of our Islands generally, heavily at Pembroke.

Temperature changed very irregularly. Morning readings highest 63° at Nemours, 61° at Biarritz, and 60° at Algiers; above 50° at most of the Mediterranean stations, and also in the W. of France and at Scilly. Lowest -6° F. at Ulesborg, -5° at Haparanda, +3° at Kuopio and 5° at Moscow; below the freezing point over the greater part of *N<sup>m</sup>*, *E<sup>m</sup>* and central Europe. Rising during day to 50° and upwards at most of our own central and *S<sup>m</sup>* stations, exceeding 55° in the W. and S. of France, and reaching 63° at Biarritz.

Wind light to moderate from the *S<sup>m</sup>* or *SE<sup>m</sup>* over western and northern Europe generally, but SW. on some parts of our own western coasts. Variable over the northern parts of Sweden and Russia; SE. in the south of Russia, SW. in Austria, variable in Italy. No important change occurring over *W<sup>m</sup>* Europe during day.

Barometer highest 30.3 ins. and upwards over Greece and the neighbouring provinces; 30.0 ins. and upwards in an anticyclone covering the greater part of *E<sup>m</sup>* and *S<sup>m</sup>* Europe. Lowest 29.2 ins. and less in a depression lying off the NW. of Scotland. New disturbance appearing later off the W. of Ireland and moving northwards.

### 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 11<sup>th</sup> January, 1899.

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.			Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Weather.	Max.	Min.	Rainfall.					
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
	Hernösand ...	29.47	20	Z	0	0	29.44	- .22	18	18	+ 5	E	2	0	#	0	#	21	0	0.04	
	Stockholm ...	29.40	25	Z	0	? s	29.36	- .14	27	26	+ 5	NE	2	r	#	? s	#	25	18	0.20	
	Wisby ...	29.58	33	SW	2	0	29.50	- .16	34	34	- 1	SSW	2	f	#	0	#	36	25	0.04	
	Karlstad ...	29.67	36	SSW	4	c	29.62	- .15	36	35	0	SW	4	f	#	c	#	36	32	-	
		29.50	35	S	2	0	29.43	- .18	37	36	+ 1	SSW	4	f	#	0, r	#	#	#	0.04	
	Bodö ...	29.37	23	E	4	b	29.21	- .16	24	21	+ 2	E	4	b	1	b	#	27	19	-	
	Christiansund ...	29.17	37	SE	2	0	29.12	- .21	37	36	+ 1	Z	0	0	4	0	#	37	36	0.47	
	Skudesnaes ...	29.27	45	S	6	0	29.29	- .05	45	42	0	SSW	8	bc	5	of	#	45	41	#	
	Færder (Christiania Fjord)	29.12	40	SSW	2	0	29.37	- .18	40	39	+ 1	SW	6	m	3	0	#	41	37	0.16	
Skagen (The Scaw)	29.49	40	SSW	2	bc	29.48	- .09	39	38	+ 2	SW	2	bc	0	bc	#	41	37	-		
Fanö ...	29.49	39	SSE	4	b	29.56	- .01	38	37	+ 3	SW	2	b	#	b	#	43	35	-		
BRITISH ISLANDS.	Sumburgh Head	29.00	44	S	1	c	29.11	+ .03	40	38	- 5	W	1	b	3	c	#	46	37	0.03	
	Stornoway ...	29.06	43	SW	3	c	29.02	+ .10	41	40	- 4	SSW	3	c	3	0, c	0.0	46	38	0.05	
	Wick ...	29.98	44	S	3	bc	29.13	+ .13	39	38	- 5	SW	2	bc	2	bc	#	46	36	-	
	Nairn ...	29.03	41	W	2	c	29.12	+ .14	36	33	- 4	Z	0	b	0	c	#	48	32	-	
	Aberdeen ...	29.05	43	SW	2	ogr	29.18	+ .12	37	36	- 6	SW	2	ogr	2	ogr, bc, rg	1.2	45	34	0.03	
	Leith ...	29.10	43	WSW	2	0	29.22	+ .18	37	36	- 6	WSW	2	0	#	0	#	49	34	0.08	
	Shields ...	29.20	42	WSW	3	c	29.27	+ .14	37	36	- 8	WSW	2	bc	2	r, c	#	48	35	0.30	
	Spurn Head ...	29.30	42	SW	4	bc	29.39	+ .17	37	36	- 8	SW	4	bc	3	p, bc	#	46	37	0.01	
	York ...	29.26	41	SSW	1	b	29.39	+ .21	37	36	- 8	S	1	bc	#	0, r, b	0.0	47	35	0.22	
	Loughborough ...	29.33	41	SSW	2	b	29.46	+ .24	36	34	- 11	WSW	3	b	#	0, p, b, r, b	#	48	35	0.25	
GERMANY & HOLLAND.	Ardrossan ...	29.13	44	SSW	3	b	29.22	+ .21	42	42	- 4	S	4	c	3	c, b	#	46	37	0.04	
	Malin Head ...	29.07	40	SSW	4	bc	29.11	+ .17	37	36	- 5	SSW	5	c	4	b, bc	#	43	36	0.02	
	Belmullet ...	29.08	40	S	5	0	29.19	+ .21	40	38	- 5	W	5	ohp	#	bc, op	#	45	37	0.20	
	Donaghadee ...	29.17	38	WSW	2	b	29.27	+ .23	35	34	- 8	SW	3	bc	1	b	#	45	32	0.05	
	Liverpool (Bidston)	29.27	41	SSE	2	0	29.40	+ .28	37	35	- 7	SSW	3	b	3	r, o, r	#	45	36	0.11	
	Holyhead ...	29.20	44	S	3	0	29.35	+ .27	43	40	- 1	SW	3	c	2	b, 0	#	46	40	0.19	
	Parsonstown ...	29.16	40	S	1	bc	29.27	+ .18	37	36	+ 1	SE	1	c	#	bc	3.2	49	33	0.06	
	Valencia ...	29.24	44	WSW	4	cp	29.33	+ .22	46	40	+ 4	W	4	c	5	rg, cp	0.8	46	38	0.19	
	Roche's Point ...	29.21	41	W	3	bc	29.35	+ .18	37	36	- 4	NW	3	bc	4	bc, r	#	46	36	0.58	
	Pembroke (St. Ann's Hd.)	29.22	47	WSW	5	r	29.37	+ .21	42	41	- 5	SSW	7	rg	6	r	0.9	48	40	0.22	
FRANCE & BELGIUM.	Seilly ...	29.31	45	SW	4	bc	29.45	+ .21	47	45	- 1	SSW	6	0	6	r, bc	0.8	49	42	0.24	
	Prawle Point ...	29.35	42	SW	4	p	29.55	+ .35	43	42	- 1	SW	5	rg	4	cp, hp	#	50	38	0.22	
	Jersey (St. Aubin's)	29.44	50	SSW	3	b	29.69	+ .38	47	44	- 3	SSW	3	om	3	b, cp	#	54	42	0.18	
	Hurst Castle ...	29.38	49	SSW	4	bc	29.58	+ .31	43	41	- 7	WSW	3	bc	3	p, bc	#	51	40	0.26	
	Dungeness ...	29.45	48	WSW	4	bc	29.57	+ .18	42	41	- 8	WSW	4	bc	4	cp, bc	#	51	40	0.03	
	North Foreland																				
	London (Brixton) ...						29.57	+ .23	37	35	- 12	SW	2	b	#	ogr, bc	1.3	51	36	0.13	
	Oxford ...	29.37	43	SE	3	r	29.54	+ .29	35	35	- 12	SW	3	b	#	r, h, c, r	#	48	35	0.33	
	Cambridge ...	29.40	39	SW	1	b	29.52	+ .21	34	33	- 14	SW	1	b	#	pg, b	2.2	51	33	0.04	
	Yarmouth ...	29.37	43	WSW	4	bc	29.48	+ .12	38	37	- 9	SW	3	bc	3	cp, bc	#	49	36	0.02	
GERMANY & HOLLAND.	Cuxhaven ...	29.57	43	S	2	bc	29.61	- .01	35	35	- 1	S	2	c	#	bc	#	43	34	-	
	Berlin ...	29.75	36	SSE	3	b	29.75	- .09	34	32	+ 2	SE	2	c	#	b	#	37	32	-	
	Wiesbaden ...	#	#	#	#	#	29.75	- .07	36	37	+ 9	SW	1	c	#	#	#	39	29	0.04	
	Munich ...	29.84	29	Z	0	f	29.78	- .11	26	26	+ 4	E	2	f	#	f	#	34	21	-	
	The Helder ...	29.42	46	SSW	3	b	29.51	+ .02	42	41	+ 1	SSW	2	c	1	b	#	50	34	-	
	Brussels ...	#	#	#	#	#	29.68	+ .08	42	41	- 3	SW	4	c	#	b	#	53	40	-	
	Cape Gris Nez ...	? 50	50	SW	5	bc	? 45	? 45	41	41	- 4	W	5	c	5	bc	#	52	41	0.04	
	Paris ...	29.60	47	SW	3	bc	29.78	+ .18	38	37	- 9	SSW	2	b	#	bc	#	55	37	-	
	Brest ...	29.46	45	WNW	5	r	29.68	+ .38	45	41	- 3	W	6	r	5	r	#	52	41	2.76	
	Lorient ...	29.54	47	W	6	r	29.77	+ .36	46	44	- 2	W	6	r	5	r	#	53	41	0.20	
FRANCE & BELGIUM.	Rochefort ...	29.64	49	WSW	4	r	29.97	+ .37	48	46	- 4	W	3	c	#	r	#	54	45	0.32	
	Belfort ...	29.77	44	Z	0	0	29.78	- .03	38	37	+ 1	WSW	3	r	#	u	#	47	37	0.16	
	Lyons ...	29.80	47	SSW	3	r	29.91	+ .14	41	40	- 10	WNW	2	u	#	r	#	55	41	1.85	
	Nice ...	29.91	48	Z	0	0	29.82	- .11	42	41	- 6	E	3	r	3	0	#	54	42	0.59	
	Perpignan ...	29.74	50	NW	1	b	29.97	+ .19	46	41	+ 1	NW	8	#	#	b	#	63	41	-	
	Biarritz ...	29.70	53	S	3	bc	30.08	+ .41	57	46	- 3	W	6	r	5	bc, l	#	57	46	0.20	
	Corunna ...																				
	Lisbon ...	30.28	51	N	3	b	30.43	+ .44	50	47	- 4	Z	0	bc	#	b	#	59	48	-	
	Azores (P. Delgada)	30.28	59	W	3	bc	30.24	+ .09	59	56	+ 5	SW	4	c	4	bc	#	61	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. 0.8 hrs;



# WEATHER CHARTS

FOR *Wednesday, 11<sup>th</sup> January, 1899.*

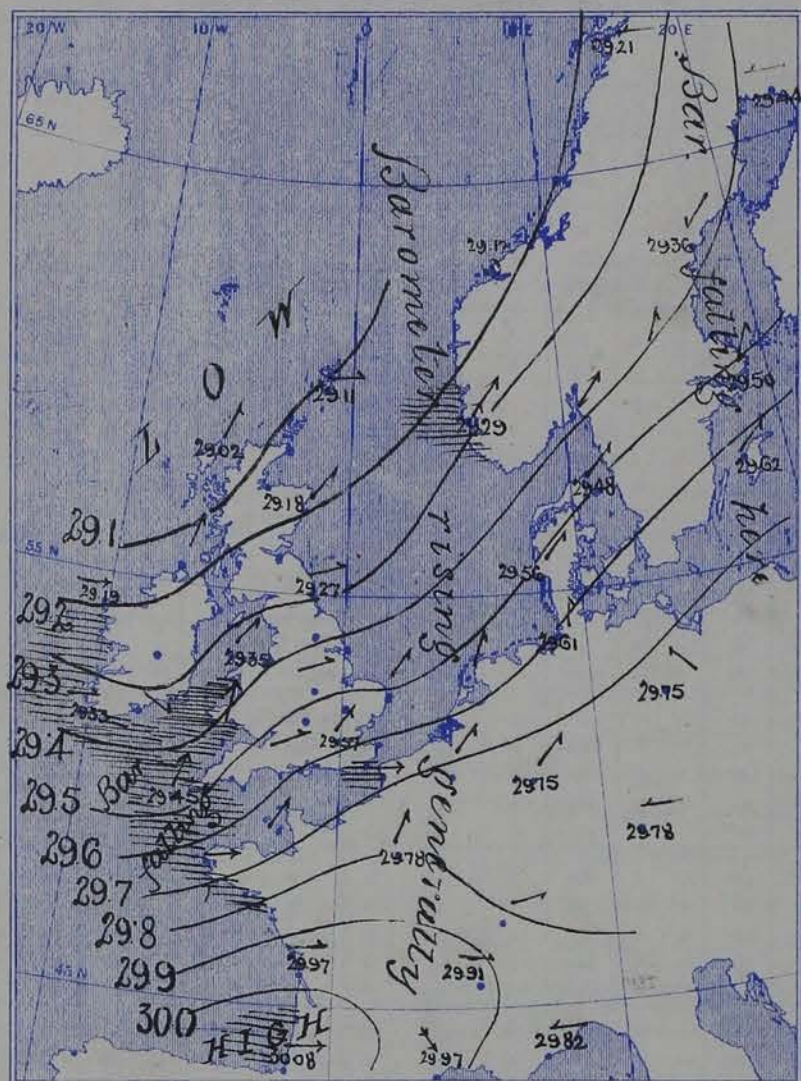
## BAROMETER, WIND AND SEA.

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 JANUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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 30.43 ins. at Lisbon; 30.0 ins. and upwards in an anticyclone lying over the whole of the Spanish Peninsula and the south of France.

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

Gradients moderate or slight generally.

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

## TEMPERATURE

Highest 51° at Biarritz, 50° at Lisbon, 48° at Rochefort, 47° at Seilly, and Jersey, and 46° at Lorient & Perpignan.

Lowest (1) 18° at Haparanda, 24° at Bodø, and 27° at Hermsund; (2) 26° at Munich; lowest in our Islands, 34° at Cambridge, and 35° at Oxford and Donaghadee.

Ground frost occurred last night in many parts of the United Kingdom; in London the thermometer on the grass fell to 29°, and at Loughborough to 30°.

## WIND

SW. over the greater part of northwestern Europe; light or moderate in force in most places, but strong at the mouths of the English and Bristol Channels and also on the South coasts of Norway, with a gale at Skudesnaes.

Moderate to fresh from the W. in the west and south of Ireland, and strong from the same quarter in the west of France; light from the SE. in Germany, and from the E. in the north of Scandinavia.

Fine over the greater part of the United Kingdom, but dull in the E. of Scotland, and squally and rainy in the SW. of England; hail showers were reported at Belmullet.

## WEATHER

Cloudy or dull at most of the Continental stations, with fog in the S. of Sweden, and rain in many parts of France, as well as at Hermsund.

Rain fell yesterday over W. Europe generally, and hail at several of our own W. and S. stations, at Lyons the amount was as large as 1.9 in. while at Brest 2.8 ins. was reported.

## SEA

Rough on our SW. coasts, and rather rough on the French coasts, as well as at Skudesnaes, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Small secondary depressions are again advancing over our W. coasts and are likely to pass E. across the Kingdom, causing showery and squally weather in most districts.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>TH</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

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

SW. to W. winds, light or moderate, changeable, some rain.

SW. to W. winds, freshening considerably, squally and showery at first, then fair.

### DISTRICTS.

### FORECASTS.

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

SW. to W. winds, freshening, squally, showery.

W. and NW. winds, backing later, changeable, some rain.

None issued.

### WARNINGS

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.		THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes ...	29.30	45	44	S	6	of	4	Valencia ...	29.12	43	41	SW	3	of	5	
Samburgh Head ...	29.00	45	45	S	1	c	3	Scilly ...	29.27	44	43	WSW	5	r	4	
Stornoway ...	28.94	44	44	SSW	4	o	4	Jersey ...	29.47	51	48	SSW	3	b	2	
Aberdeen ...	29.05	44	43	SSW	2	bc	3	Hurst Castle ...	29.37	50	47	WSW	3	bc	3	
Shields ...	29.09	46	45	SSW	2	r	2	Dungeness ...	29.33	50	49	WSW	7	cg	5	
Ardrossan ...	29.07	45	45	SW	3	c	2	North Foreland								
Malin Head ...	29.01	43	41	SW	5	b	3	London (Westminster)	29.33	50	46	W	4	bc	#	
Belmullet ...	29.04	43	40	SW	5	rgw	#	Yarmouth ...	29.18	48	47	S	5	cg	4	
Holyhead ...	29.19	46	43	WSW	3	b	2	Rochefort ...	29.64	54	51	WSW	4	c	#	

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

*Weather in morning cloudy or dull over the greater part of Europe, with showers at many of the English stations, steady rain over the N. of France, and snow over the Baltic Provinces and the Gulf of Finland, as well as at Christiansund. Fog reported in many parts of Sweden, Denmark, Germany and Austria. Fine in the S. of Ireland, and also in Holland, Denmark and W. Germany. Rain falling during day in nearly all parts of W. Europe, and hail in the W. and S. of our Islands. Lightning seen at Biarritz.*

*Temperature fallen in the W. and N. of our Islands, and also in Germany, risen in most other localities. Morning reading, highest 58° at Malta, 57° at San Fernando, and 56° at Algiers, above 50° on the W. coast of France. Lowest -14° F. at Archangel, -5° at Moscow, and +13° at Haparanda; below the freezing point over E. and central Europe generally, and very little above it over central Ireland. Rising during day to 45° and upwards in all parts of our Islands, and to 50° and upwards in the S. of England. Reaching 55° or more in the W. and S. of France, and 63° at Perpignan.*

*Wind S. (SE. to SW.) over western, northern and central Europe generally, but W. over the southwest of England and the northwest of France, and also on the Portuguese coasts; fresh or strong in force at some of our own southern stations. Light from the NW. over central Russia; calm in Austria, variable but chiefly N. over Italy. Subsequently veering to the SW. or W. over St. Britain. No important change occurring elsewhere.*

*Barometer highest 30.3 ins. and upwards over SE. Europe, 30.0 ins. and upwards in an anticyclone covering the E. part of the Continent generally, and also in another system over Morocco and the S. of Spain. Lowest 28.9 ins. and less in a depression off the W. of Scotland. Depression subsequently moving NE. and shallow secondary disturbances passing in a similar direction across 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 January 12<sup>th</sup>* 1899.

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.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)				Weather.	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	Ins.	0				Ins.	Ins.	0	0	0							0	0	Ins.	
	Hernösand ...	29.26	17	E	2	S	29.38	-0.6	14	12	-4	N	2	0	#	S	#	19	10	0.08	
	Stockholm ...	29.34	27	Z	0	0	29.31	-0.5	18	18	-9	Z	0	f	#	f	#	28	18	-	
	Wisby ...	29.35	34	Z	0	0	29.42	-0.8	33	33	-1	W	2	2	#	b	#	39	33	0.16	
	Wisby ...	29.65	35	W	4	0	29.60	-0.2	38	37	+2	W	4	4	0	b	#	38	32	0.08	
	Karlstad ...	29.50	38	SW	2	C	29.42	-0.1	36	35	-1	SW	4	4	C	C, r	#	#	#	0.08	
	Bodö ...	29.20	22	E	4	0	29.22	+0.1	21	19	-3	E	4	C	1	0	#	25	18	-	
	Christiansund ...	29.23	41	WSW	2	r	29.13	+0.1	39	39	+2	ESE	2	C	3	r	#	39	37	0.08	
	Skudesnaes ...	29.31	43	SSE	6	0	29.25	-0.4	42	40	-3	S	6	C	4	0	#	45	37	#	
	Færder (Christiania Fjord)	29.45	39	SSW	4	0	29.38	+0.1	39	38	-1	SSW	2	0	3	0	#	41	37	0.16	
BRITISH ISLANDS.	Skagen (The Scaw)	29.48	39	SSW	2	r	29.43	-0.5	36	36	-3	S	3	m	0	r	#	41	36	0.04	
	Fanö ...	29.54	38	WSW	2	0	29.42	-0.14	38	38	0	W	4	C	#	0	#	39	36	0.08	
	Sumburgh Head	29.11	39	Z	0	0	29.01	-0.10	38	37	-2	Z	0	0	3	0	#	42	35	0.13	
	Stornoway ...	29.04	42	WSW	4	0	28.91	-0.11	40	39	-1	SSE	4	0	4	C, 0	#	44	32	0.10	
	Wick ...	29.13	36	SW	2	0	28.99	-0.14	36	35	-3	SW	2	0	2	0	#	40	33	-	
	Nairn ...	29.15	35	Z	0	0	28.97	-0.15	36	33	0	SE	1	C	1	0	#	40	30	-	
	Aberdeen ...	29.21	38	SW	2	0	29.01	-0.17	35	34	-2	S	2	C, m	2	0, 0	#	40	34	-	
	Leith ...	29.24	39	SSW	2	0	28.96	-0.26	38	36	+1	S	2	0	#	0	#	42	35	-	
	Shields ...	29.34	38	SW	2	0	29.16	-0.11	37	36	0	SE	4	r	3	C, m, r, 0	#	42	34	0.10	
	Spurn Head ...	29.35	41	SW	4	0	29.13	-0.26	41	41	+4	S	6	r	5	C, 0	#	42	35	0.11	
GERMANY & HOLLAND.	York ...	29.31	38	S	1	0	29.07	-0.32	38	38	+1	SE	1	r	#	r, 0	#	44	35	0.31	
	Loughborough ...	29.46	39	W	2	0	29.23	-0.23	44	43	+8	SE	5	0, dy	#	0	#	44	35	0.32	
	Ardrossan ...	29.25	39	W	4	0	28.81	-0.41	40	40	-2	SE	3	0	2	0	#	43	38	0.07	
	Malin Head ...	29.21	42	WSW	6	0	28.64	-0.47	44	43	+7	SE	6	0	5	0	#	44	36	0.22	
	Belmullet ...	29.42	42	W	8	0	28.74	-0.45	44	44	+7	SE	12	0	#	0	#	49	39	0.20	
	Donaghadee ...	29.33	26	WSW	5	0	28.84	-0.43	46	45	+11	SE	7	0	5	0	#	46	33	0.25	
	Liverpool (Bidston)	29.44	39	W	6	0	29.06	-0.34	49	47	+12	SE	1	0	5	0	#	49	36	0.08	
	Holyhead ...	29.46	42	WNW	6	0	29.03	-0.32	51	50	+8	SE	7	0	5	0	#	51	35	0.07	
	Parsonstown ...	29.51	35	WSW	1	0	29.02	-0.25	47	44	+10	SE	2	0	#	0	#	52	34	0.33	
	Valencia ...	29.58	43	WSW	6	0	29.15	-0.18	49	44	+3	SE	9	0	7	0	#	49	43	0.75	
FRANCE & BELGIUM.	Roche's Point ...	29.60	41	WNW	4	0	29.19	-0.16	52	48	+15	SE	8	0	6	0	#	52	37	0.78	
	Pembroke (St. Ann's Hd.)	29.52	44	WNW	8	0	29.22	-0.15	53	50	+11	SE	8	0	7	0	#	53	34	0.60	
	Scilly ...	29.71	47	W	6	0	29.50	+0.05	53	52	+6	SE	7	0	6	0	#	53	44	0.56	
	Prawle Point ...	29.67	43	NW	4	0	29.49	-0.06	51	50	+8	SE	6	0	4	0	#	51	39	0.53	
	Jersey (St. Aubin's)	29.69	47	W	5	0	29.60	-0.09	53	53	+6	SE	6	0	5	0	#	53	42	0.46	
	Hurst Castle ...	29.59	43	WNW	4	0	29.43	-0.15	52	51	+9	SE	6	0	4	0	#	52	41	0.51	
	Dungeness ...	29.44	45	SSW	6	0	29.44	-0.13	48	48	+6	SE	7	0	6	0	#	49	38	0.15	
	North Foreland																				
	London (Brixton) ...	29.48	41	WNW	4	0	29.39	-0.18	47	46	+10	SE	6	0	#	0	#	48	36	0.23	
	Oxford ...	29.62	37	SW	2	0	29.51	-0.23	50	49	+15	SE	3	0	#	0	#	50	35	0.33	
PENINSULA.	Cambridge ...	29.46	40	SW	3	0	29.33	-0.19	44	43	+10	SE	5	0	#	0	#	44	34	0.22	
	Yarmouth ...	29.44	44	SW	4	0	29.32	-0.16	44	42	+5	SE	6	0	4	0	#	44	34	0.39	
	Cuxhaven ...	29.60	41	SSW	3	0	29.57	-0.04	57	56	+2	SE	4	0	#	0	#	41	34	0.16	
	Berlin ...	29.76	39	SW	3	0	29.76	+0.01	57	55	+3	SE	4	0	#	0	#	39	34	-	
	Wiesbaden ...	#	#	#	#	#	29.98	+0.23	56	56	-2	SE	2	0	#	0	#	45	36	0.04	
	Munich ...	29.98	35	W	2	0	30.08	+0.30	57	56	+11	SE	5	0	#	0	#	41	26	0.04	
	The Helder ...						29.524	+0.03	43	40	+1	SE	3	0	2	0	#	45	37	0.16	
	Brussels ...	#	#	#	#	#	29.78	+0.10	59	59	-3	SE	6	0	#	0	#	45	36	0.08	
	Cape Gris Nez ...	#	44	SW	7	0	?	?	43	42	-2	SE	7	0	#	0	#	48	34	0.24	
	Paris ...	29.66	44	SSW	5	0	29.91	+0.13	41	39	+3	SE	3	0	#	0	#	46	38	0.12	

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport. 0.0 hrs.



# WEATHER CHARTS

FOR *Thursday 12<sup>th</sup> January, 1899.*

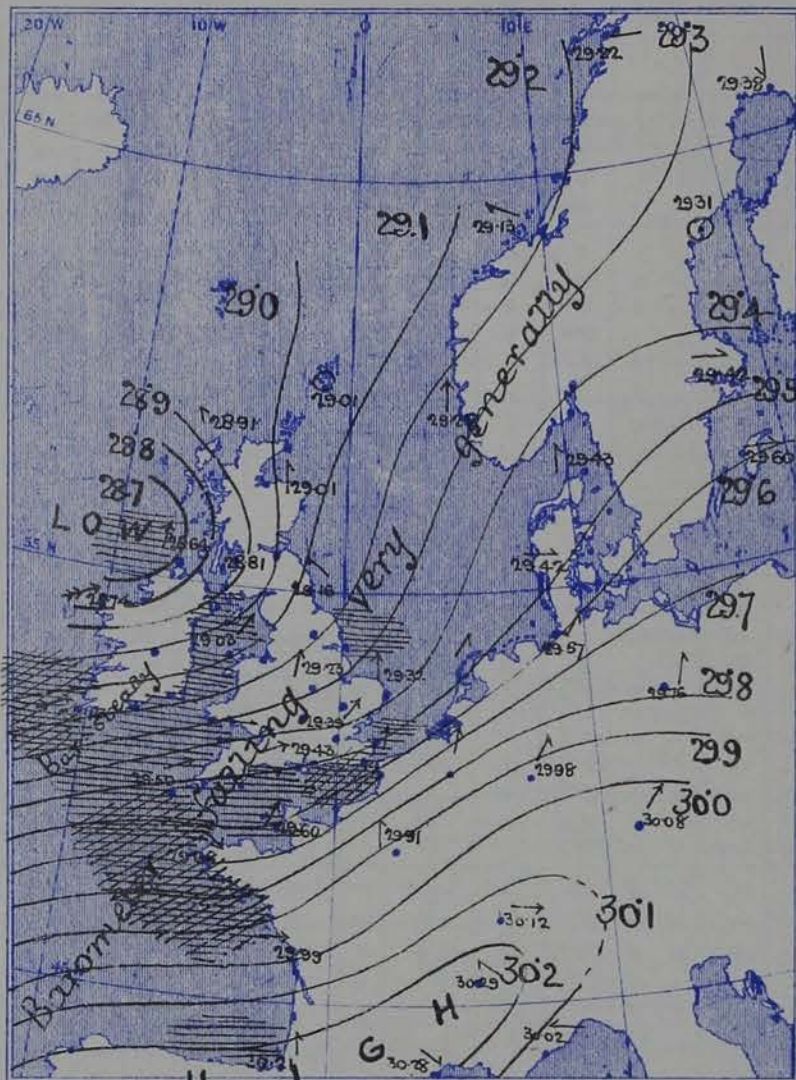
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ ; High ≡

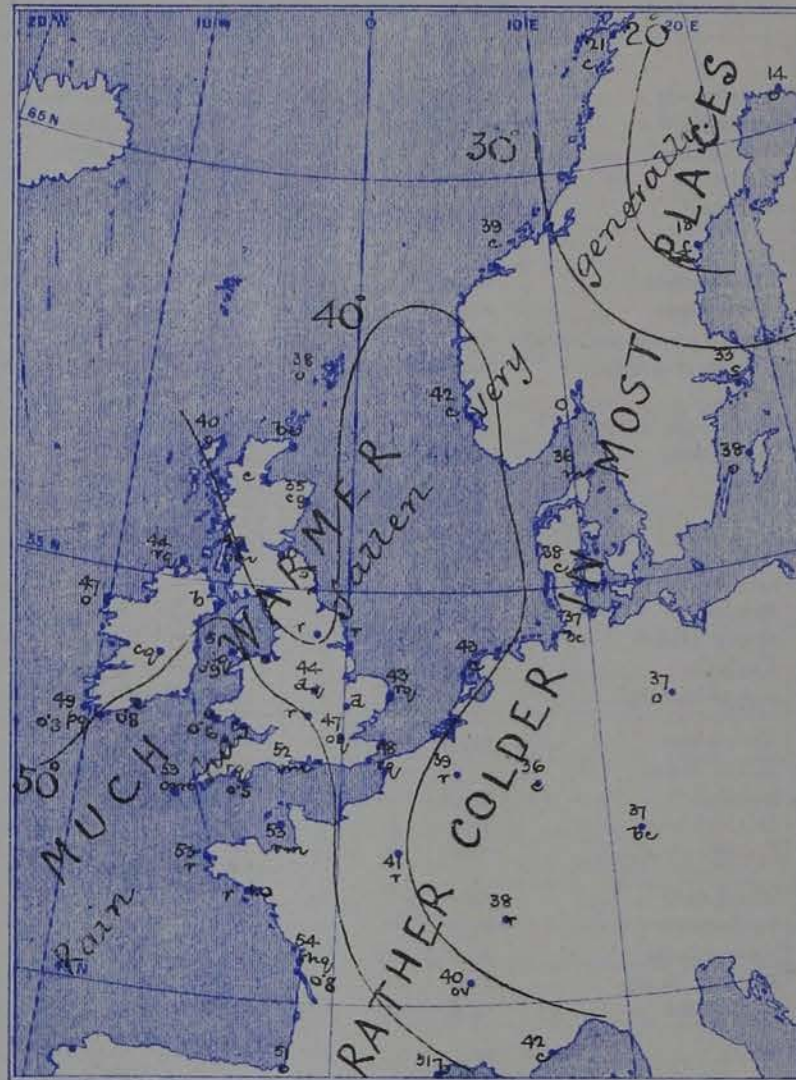


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1860—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1880, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.2 ins. and upwards over the Spanish Peninsula and the S<sup>th</sup> parts of France.  
 Lowest 28.7 ins. and less in a deep depression with its centre off the NW. of Ireland.  
 Gradient steep over the W. and S. of our Islands and the neighbouring parts of the Continent, moderate or slight elsewhere.  
 Barometer falling over NW<sup>th</sup> Europe generally, - quickly in the NW. of our Islands, but steady at Valencia (Ireland).

## TEMPERATURE

Highest 54° at Lorient and Rochefort, 53° at Pembroke, Scilly, Jersey and Brest, and 52° at Roche P.  
 and Hurst Castle.  
 Lowest 14° at Haparanda, 18° at Hemisland, 21° at Bodø, and 33° at Stockholm, lowest in our Islands, 35° at Aberdeen, and 36° at Wick and Naun.

## WIND

A considerable rise has taken place over England and Ireland, the change since yesterday morning amounting to as many as 15° at Oxford.  
 Strong from the SW<sup>th</sup> or W<sup>th</sup> on our western and southern coasts, and also in the north and west of France, with a gale in the west and south of Ireland.  
 Strong from the S<sup>th</sup> in the east of England, light to moderate from the S<sup>th</sup> or SE<sup>th</sup> in Scotland.  
 Moderate to fresh from the S<sup>th</sup> or SW<sup>th</sup> over Germany, Denmark, and the south of Scandinavia; E<sup>th</sup> in the west of Norway.

## WEATHER

Cloudy over W<sup>th</sup> Europe generally, with rain over the greater part of England, Belgium and France, and with passing showers at Valencia (Ireland). Snow was falling at Stockholm.  
 Fine in the extreme S<sup>th</sup> parts of France and Germany.  
 Since yesterday morning rain, hail or sleet has fallen in most parts of our area, the largest amounts being 1.0 in. at Lorient, 0.9 in. at Holyhead, and 0.8 in. at Valencia, Roche P. & Rochefort.  
 Thunderstorms occurred yesterday at Behnmet and Scilly.

## SEA

High off our SW. coasts and also off the N. and NW. of France, and rough or rather so on the English and Irish coasts generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT.

In the course of the night the centre of a deep depression has advanced to our extreme NW. coasts. The disturbance seems likely to move E<sup>th</sup>, and gales are probable on many parts of our coasts, with squally, changeable weather.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>TH</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

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

SE<sup>th</sup> and S<sup>th</sup> winds increasing to a gale and shifting later to the W<sup>th</sup> or NW<sup>th</sup>; squally, some rain.

SW<sup>th</sup> to W<sup>th</sup> or NW<sup>th</sup> gales and strong winds, squally, rain at times.

### DISTRICTS.

### FORECASTS.

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

SW<sup>th</sup> to NW<sup>th</sup> gales and strong winds, squally, showery.

At 10.10 am today to all districts excepting No. 10. Hoist South Cone.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.34	43	41	SSE	6	0	4	Valencia ...	29.51	42	40	WSW	7	chp	6
Sumburgh Head ...	29.13	42	40	S	1	0	3	Scilly ...	29.52	42	41	WNW	6	r	6
Stornoway ...	29.04	44	43	SW	4	c	4	Jersey ...	29.54	48	48	WSW	4	o	3
Aberdeen ...	29.19	39	36	SW	1	b	2	Hurst Castle ...	29.41	47	46	SSW	6	tm	4
Shields ...	29.31	42	39	S	3	cm	2	Dungeness ...	29.52	47	46	SW	5	og	4
Ardrossan ...	29.20	42	41	W	3	o	2	North Foreland							
Malin Head ...	29.15	39	38	WSW	4	c	4	London (Westminster)	29.47	45	42	SW	3	o	*
Belmullet ...	29.30	40	39	WNW	9	chp	*	Yarmouth ...	29.49	44	40	S	3	o	3
Holyhead ...	29.34	43	40	W	6	bc	4	Rocheport ...	29.58	48	46	SW	3	o	*

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

*Weather in morning fine over the greater part of the United Kingdom, but dull in the E. of Scotland, and squally and rainy in the SW. of England. Fine also over central France and the Spanish Peninsula, but cloudy or dull over the Continent generally, with fog in Austria and the S. of Sweden, and rain in many parts of France, as well as at Brindisi; snow reported over N. Russia. Rain or snow later in nearly all parts of W. Europe - heavily in the W. parts of our Islands and France, thunderstorms occurring at Belmullet and Scilly.*

*Temperature fallen in our Islands, France and Spain, risen in most other countries. Morning readings, highest 59° at Algiers, 58° at Oran, and 57° at Malta, above 50° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest 1° at Archangel, 3° at Kharkov, 13° at Moscow, and 16° at Hermandstadt, below the freezing point in most parts of N. and E. Europe, and very little above it in many parts of our Islands. Daily maxima below 45° on all but our W. and S. coasts, but brisk rise spreading over our Islands from the W. at night.*

*Wind SW over our Islands and the northern parts of the Continent generally, light or moderate in force in most places, but strong at the mouths of the English and Bristol Channels, and also on the south coasts of Norway. W. or NW over the west and south of Ireland, France and the Spanish Peninsula, with a gale at Perpignan, light to moderate from the S. or SE. at most of the Italian stations, and also over the S. of Russia, calm or variable in Austria. Subsequently veering to the W. on our W. coasts generally, & blowing very strongly.*

*Barometer highest 30.4 in. and upwards in an anticyclone lying over the SW. part of the Spanish Peninsula, and also in another system over the S. of Russia. Lowest 29.1 in. and less in a large depression lying off the N. and W. of Scotland; small secondary systems lying over our W. coasts. Depression subsequently moving N.E., secondary disturbances advancing E. across 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 *Friday, 13<sup>th</sup> January,* 1899.  
 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.		See (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
				At 32° and M.S.L.	Dry Bulb.		Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Dir.	Force (0 to 12.)	Max.	Min.	Rainfall.
		Ins.					Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...																				
	Hernösand ...																				
	Stockholm ...																				
	Wisby ...																				
	Karlstad ...																				
	Bodö ...																				
	Christiansund ...																				
	Skudesnaes ...																				
	Færder (Christiania Fjord)																				
	Skagen (The Scaw)																				
BRITISH ISLANDS.	Fanö ...																				
	Sumburgh Head	28.86	38	E	1	bc	29.17	+1.6	42	40	+1.4	W	3	r	4	bc	#	42	35	0.14	
	Stornoway ...	28.95	37	WNW	2	C	29.26	+3.5	38	37	-2	WSW	4	C	4	rgg	#	40	34	0.08	
	Wick ...	28.84	38	W	3	r	29.28	+2.9	38	36	+2	W	4	O	4	r	#	40	32	0.10	
	Nairn ...	28.85	39	WNW	3	O	29.34	+3.7	38	35	-2	W	0	C	1	O	#	40	32	0.22	
	Aberdeen ...	28.66	40	WNE	6	rgg	29.41	+4.0	38	33	-1	SW	1	bc	5	rgg	#	40	34	0.39	
	Leith ...	28.67	40	Z	0	O	29.44	+4.8	39	37	+1	WSW	3	O	#	O	#	47	35	0.14	
	Shields ...	28.69	43	WSW	3	C	29.54	+3.8	41	39	+4	SW	2	m	2	r.c	#	48	36	0.16	
	Spurn Head ...	28.71	43	WSW	7	r	29.63	+5.0	41	40	0	WSW	4	C	4	qf	#	50	39	0.12	
	York ...	28.70	44	W	6	cq	29.61	+5.4	42	40	+4	SSW	1	O	#	og	#	50	37	0.06	
GERMANY & HOLLAND.	Loughborough ...	29.01	46	W	8	C	29.71	+4.8	41	38	-3	WSW	4	C	#	cp. ogb	#	53	39	0.08	
	Ardrossan ...	28.84	42	WNW	6	rm	29.47	+6.6	43	43	+3	WSW	5	O	6	rgg	#	47	38	0.19	
	Malin Head ...	29.05	44	WNW	6	C	29.47	+8.3	42	40	-2	SW	5	Cqp	4	c	#	45	40	0.19	
	Belmullet ...																				
	Donaghadee ...	29.03	44	WNW	9	C	29.56	+7.2	39	38	-7	W	5	C	3	C	#	47	37	0.15	
	Liverpool (Bidston)	28.93	45	WSW	11	O	29.67	+6.1	43	40	-6	W	3	bc	5	opl	#	50	41	0.02	
	Holyhead ...	29.14	45	W	9	O	29.67	+6.4	45	44	-6	WSW	4	og	3	cqp. o	#	51	43	0.02	
	Parsonstown ...	29.41	43	W	2	C	?	?	38	37	-9	Z	0	of	#	C	1.7	47	37	0.18	
	Valencia ...	29.64	48	W	9	og	29.55	+4.0	41	40	-8	E	3	grm	5	og	#	50	39	0.27	
	Roche's Point ...	29.58	44	WNW	7	C	29.61	+4.2	44	44	-8	SSW	4	r	4	cq	#	52	43	0.22	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.72	49	WSW	9	O	29.71	+4.9	45	44	-8	SW	4	r	5	O	#	53	?	0.28	
	Scilly ...	29.66	50	W	10	O	29.78	+2.8	54	53	+1	WSW	7	m	7	om. o	#	56	44	0.13	
	Prawle Point ...	29.54	47	WSW	7	O	29.83	+3.4	45	45	-6	SSW	3	rf	4	qf. p	#	53	44	0.06	
	Jersey (St. Aubin's)	29.61	54	W	8	C	29.95	+3.5	50	49	-3	SSW	4	omd	4	om. c	#	57	49	0.10	
	Hurst Castle ...	29.41	49	W	9	ogm	29.85	+4.2	48	45	-4	WSW	4	O	3	ogm	#	54	45	0.03	
	Dungeness ...	29.27	52	WSW	8	O	29.85	+4.1	45	44	-3	WSW	4	C	4	og	#	52	43	0.08	
	North Foreland																				
	London (Brixton) ...	29.24	47	W	5	bc	29.83	+4.4	42	40	-5	WSW	3	b	#	rg. c	#	55	41	0.23	
	Oxford ...	29.36	45	W	7	b	29.81	+5.0	42	38	-8	SSW	3	O	#	h. b	#	53	41	0.13	
	Cambridge ...	29.11	47	WSW	6	b	29.77	+4.4	41	39	-3	SW	3	O	#	hgp. b	#	54	40	0.47	
PENIN- SULA.	Yarmouth ...	29.00	46	WSW	7	bcq	29.70	+3.8	40	38	-3	WSW	5	bc	4	rgg	#	50	38	0.09	
	Cuxhaven ...	28.99	45	SSW	7	O	29.14	-4.3	42	41	+5	W/W	5	org	#	O	#	45	37	?	
	Berlin ...	29.37	37	SSW	5	r	29.09	-6.7	41	40	+4	W	6	r	#	r	#	43	37	0.47	
	Wiesbaden ...	#	#	#	#	#	29.71	-2.7	45	40	+4	W	5	O	#	#	#	45	36	0.39	
	Munich ...	29.76	39	W	6	O	29.80	-2.8	39	38	+2	W	8	C	#	O	#	50	36	0.24	
	The Helder ...																				
	Brussels ...	#	#	#	#	#	?	?	46	45	+3	WNW	7	O	7	C	#	54	43	0.16	
	Cape Gris Nez ...	?	48	WSW	9	C	?	?	46	45	+3	WNW	7	O	7	C	#	54	43	0.16	
	Paris ...	29.60	55	WSW	6	r	30.02	+1.1	45	41	+4	SSW	3	r	#	r	#	57	41	0.24	
	Brest ...	29.81	53	W	6	O	29.99	+3.1	54	54	+1	WSW	5	O	7	O	#	55	46	0.20	
PENIN- SULA.	Lorient ...	29.88	52	WSW	7	r	30.08		54	54		W	6	f	6	r	#	57	54	0.43	
	Rochefort ...	30.02	55	WSW	7	r	30.19	+2.0	54	53	0	WNW	6	r	#	rg	#	55	48	0.47	
	Belfort ...	29.84	45	WSW	8	O	30.02	-1.0	42	38	+4	WSW	7	O	#	O	#	45	38	0.08	
	Lyons ...	30.10	45	S	2	O	30.24	-0.5	48	41	+8	W	1	r	#	O	#	55	40	0.04	
	Nice ...	30.08	46	E	5	C	29.87	-1.5	57	47	+15	SW	6	C	5	C	#	57	42	-	
	Perpignan ...	30.27	57	NW	2	O	30.31	+0.3	60	52	+9	W	2	O	#	O	#	63	51	-	
	Biarritz ...	30.24	57	WSW	3	bc	30.38	+1.7	57	54	+6	WSW	4	O	6	bc	#	59	51	-	
	Corunna ...																				
	Lisbon ...																				
	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. 1.1 hrs;



# WEATHER CHARTS

FOR Friday, 13<sup>th</sup> January, 1899.

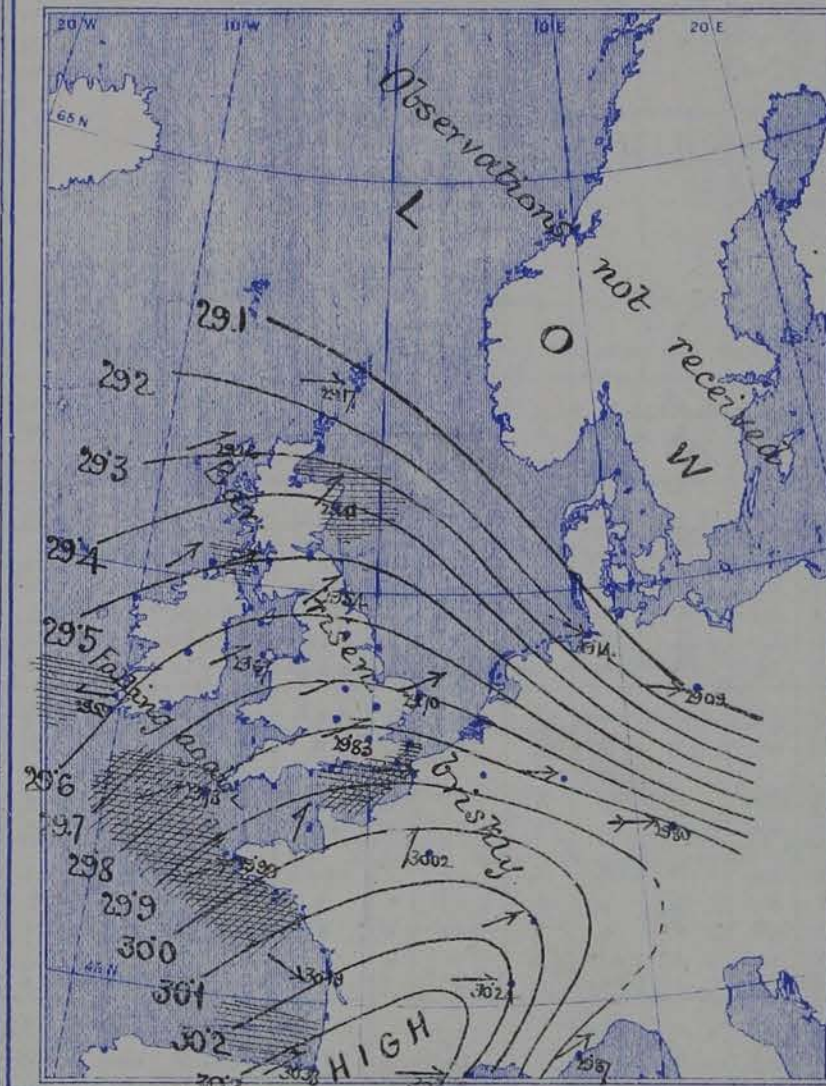
## BAROMETER, WIND AND SEA.

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 ≡≡≡

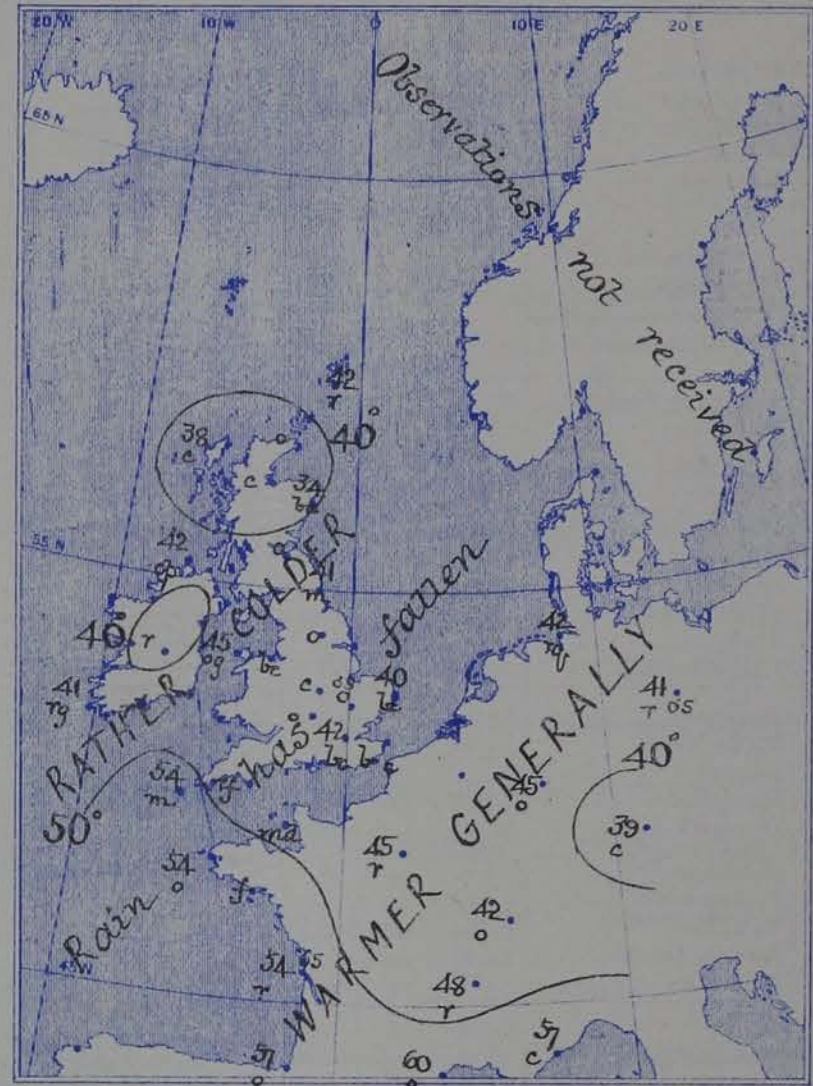


## TEMPERATURE & WEATHER.

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 JANUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Seilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 inches and upwards in the south of France.  
Lowest 29.1 inches and less over North Germany, 29.2 inches and less in the extreme north of Scotland.  
(The reports from Scandinavia and Denmark have not yet arrived.)  
Gradients steep over Germany and the Netherlands, and also over the southeast of France, moderate or slight elsewhere.  
Barometer rising in all the more eastern parts of our Islands, but falling again on our southwest coast.

## TEMPERATURE

Highest 65° at Perpignan, 57° at Nice and Biarritz and 54° at Scilly, Brest, Lorient and Rochefort.  
Lowest 38° at Poxonstown, 39° at Lill and Munich, 40° at Gosport and 41° at Valencia (Ireland), Shields, Loughborough, Cambridge and Berlin.  
During yesterday the thermometer rose to between 50° and 55° at many of the English and Irish stations, to 56° at Scilly and to 57° at Jersey.

## WIND

Southwesterly over the greater part of our Islands and the north of France, light or moderate in force generally, but strong at the mouth of the English Channel, easterly at Valencia (Ireland).  
Strong from the Westward over Germany and the east of France, with a gale at Munich.  
During yesterday a strong to whole gale from the W. was experienced over nearly the whole of England.

## WEATHER

Cloudy or overcast generally with rain in Ireland and the S.W. of England, as well as in North Germany and many parts of France.  
Rain fell yesterday at nearly all stations, but as a rule the amount was not large. Lightning was seen at Liverpool, and the newspapers report the occurrence of thunderstorms in some parts of our Highland Counties.

## SEA

High at Scilly, Cape Breton and Brest, rough on the French coasts generally, and rather rough at Liverpool.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression of yesterday has travelled away quickly to the eastward, and is apparently passing over Germany and the Baltic. The barometer is, however, again falling on our coast and southwest coasts, and the wind is backing generally, so that fresh disturbances are evidently approaching from the Atlantic.

## FORECASTS

For the 24 hours ending at NOON on JANUARY 14<sup>TH</sup> 1899.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Southwesterly to southerly winds, force doubtful; fair at first, unsettled later, some rain or snow.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	Same as No. 5
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Southerly and southeasterly winds, increasing in force and veering later to the Westward; squally and rainy at first, then fair.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Southwesterly and westerly winds, increasing; squally, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Southwesterly to Northwesterly gales and strong winds, squally and rainy at first, some improvement later.
9	IRELAND NORTH	Same as Nos. 6 and 7.
10	IRELAND SOUTH	Southeasterly winds increasing later and shifting to the Northward, squally and rainy at first, some improvement later. The South Cone has been hoisted this morning in District 10, and is now flying on all coasts.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.07	39	38	SSE	4	0	4	Valencia ...	29.33	47	43	W	10	09	8
Sumburgh Head ...	28.63	41	38	S	1	bc	3	Scilly ...	29.50	54	48	WSW	8	0m	6
Stornoway ...	28.71	39	38	ESE	4	r	4	Jersey ...	29.59	57	54	WSW	7	0	5
Aberdeen ...	28.58	39	38	S	2	ogtm	6	Hurst Castle ...	29.31	52	49	WSW	8	09m	5
Shields ...	28.72	47	43	SSW	3	c	3	Dungeness ...	29.29	52	51	SW	8	09	6
Ardrossan ...	28.55	45	45	SW	5	r	5	North Foreland							
Malin Head ...								London (Westminster)	29.17	53	50	WSW	8	09r	#
Belmullet ...	29.07	45	42	WNW	9	cyp	*	Yarmouth ...	29.08	50	48	WSW	6	09r	5
Holyhead ...	28.89	47	45	WSW	9	cyp	*	Rochefort ...	29.99	55	54	W	6	09	*

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

*The Continental Information has not yet arrived.*

### 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

Saturday, 14<sup>th</sup> January,

1899.

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
	BAROM.	TEMP.	WIND.		Weather		BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)		Weather.	Hours of Bright Sun- shine.	TEMP.		
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)			At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)						Max.	Min.	Rainfall.
	Ins.	°					Ins.	Ins.	°	°	°								°	°	Ins.
<b>SCANDINAVIA.</b>																					
Haparanda ...	29.16	16	N	2	bc		29.19	+1.1	14	14	-2	N	2	0	#		bc	#	18	3	0.04
Hernösand ...	29.20	22	Z	0	f		29.23	+1.0	22	22	+12	Z	0	0	#		f	#	22	7	-
Stockholm ...	29.17	31	N	2	s		29.21	+1.5	28	27	-4	NW	4	0	#		s	#	32	27	-
Wisby ...	29.17	35	NE	6	0		29.23	+2.5	35	33	0	NW	4	0	#		0	#	36	32	-
Karlstad ...	29.23	31	N	2	0		29.27	+1.8	23	23	-8	NW	2	0	#		0	#	#	#	-
Bodo ...	29.12	26	E	4	b		29.14	+0.6	27	24	0	E	4	0	1		b	#	28	23	-
Christiansund ...	29.17	35	SW	2	s		29.28	+1.9	35	34	-2	Z	0	0	3		s	#	39	34	0.35
Skudesnaes ...	29.26	37	SE	4	c		29.27	+0.8	35	?	-4	SE	2	bc	2		c	#	39	34	#
Færder (Christiania Fjord)	29.22	34	N	1	b		29.28	+1.8	27	27	-9	N	4	0	2		b	#	36	27	-
Skagen (The Scaw)	29.26	36	Z	0	b		29.27	+2.1	36	34	-1	NW	1	0	0		b	#	39	36	-
Fanø ...	29.40	40	N	1	b		29.41	+1.32	39	38	+2	NW	4	0	#		b	#	41	36	0.12
Sumburgh Head	29.10	40	SW	3	c		29.38	+2.1	38	36	-4	NE	3	0	4		bc.c	#	43	36	0.14
Stornoway ...	29.21	42	NW	4	0		29.52	+2.6	37	36	-1	N	3	0	3		c.r.g.p.	#	42	34	0.15
Wick ...	29.17	39	N	5	c		29.54	+2.6	35	34	-3	NW	2	bc	2		c	#	40	33	0.05
Nairn ...	29.26	38	N	2	bc		29.55	+2.1	38	37	+4	N	2	bc	1		bc	#	38	32	0.16
Aberdeen ...	29.31	35	SW	2	b		29.54	+1.3	38	36	+4	NW	3	bc	2		b	#	40	32	-
Leith ...	29.40	37	SW	3	c		29.62	+1.8	40	38	+1	SW	4	0	#		c	#	42	38	0.13
Shields ...	29.47	39	SW	3	bc		29.63	+0.9	40	38	-1	SW	4	bc	2		bc	#	43	37	-
Spurn Head ...	29.53	40	N	4	0		29.74	+1.1	39	38	-2	SW	4	b	3		r.o.d.	#	42	37	0.07
York ...	29.52	40	NW	1	bc		29.75	+1.4	41	38	-1	N	3	b	#		o.bc	#	45	37	-
Loughborough ...	29.56	38	NW	2	0		29.84	+1.3	37	35	-4	SW	1	b.m.w.	#		o.g.r.c.b.	#	44	37	0.09
<b>BRITISH ISLANDS.</b>																					
Ardrossan ...	29.47	43	SW	4	b		29.69	+2.2	44	44	+1	N	4	b	3		o.b.l.g.p.	#	45	40	0.05
Malin Head ...	29.45	43	N	4	bc.hg.		29.72	+2.5	44	42	+2	NW	5	bc	5		bc.hg.p.	#	45	35	0.15
Belmullet ...	29.71	41	N	3	0		29.80	+1.9	45	42	+2	N	3	c	#		bc.o	#	45	40	0.03
Donaghadee ...	29.56	39	SW	5	b		29.79	+2.3	38	37	-1	NW	4	b	2		b	#	42	35	-
Liverpool (Bidston)	29.63	42	N	3	c		29.85	+1.8	42	39	-1	N	5	b	5		o.g.r.c.	#	44	38	0.12
Holyhead ...	29.65	43	NW	4	bc		29.87	+2.0	43	40	-2	N	3	bc	2		r.b.c.p.	#	45	38	0.11
Parsonstown ...	29.72	37	SW	1	c		29.92	?	34	33	-4	Z	0	c	#		c	#	40	33	0.05
Valencia ...	29.80	46	NW	1	c		29.98	+4.3	38	37	-3	SSW	1	c	4		c.v.c.	#	46	35	0.04
Roche's Point ...	29.77	43	NW	4	c		29.99	+3.8	40	39	-4	NW	3	c	4		c	#	45	39	0.18
Pembroke (St. Ann's Hd.)	29.71	43	N	5	0		29.95	+2.4	46	43	+1	NW	4	bc	5		0	#	53	43	0.31
Scilly ...	29.77	54	SW	8	m		29.93	+1.5	48	48	-6	NE	2	f	6		m	#	57	46	0.44
Prawle Point ...	29.72	52	SW	7	r		29.96	+1.3	44	43	-1	N	2	0	2		r.f.	#	54	43	0.25
Jersey (St. Aubin's)	29.85	55	SW	7	om		29.96	+0.1	50	49	0	NW	3	r.m.	3		om	#	56	49	0.48
Hurst Castle ...	29.63	52	SW	5	d		29.95	+1.0	45	42	-3	N	1	c	3		r.m.d.	#	53	43	0.17
Dungeness ...	29.52	51	SW	7	o.g.		29.91	+0.6	39	38	-6	N	3	c	3		0	#	51	37	0.23
<b>GERMANY &amp; HOLLAND.</b>																					
North Foreland																					
London (Brixton) ...	29.51	53	N	4	or		29.92	+0.9	37	36	-5	SSW	1	b	#		or.g.b.	#	54	37	0.45
Oxford ...	29.71	41	SW	4	c		29.92	+1.1	37	36	-5	SW	3	b	#		or.c	#	53	37	0.24
Cambridge ...	29.54	38	N	2	d		29.89	+1.2	34	34	-7	SW	2	b	#		or	#	44	32	0.30
Yarmouth ...	29.49	39	ENE	2	r		29.76	+0.6	37	35	-3	SW	4	b	4		or	#	42	34	0.18
Cuxhaven ...	29.50	41	SW	3	0		29.52	+3.8	40	38	-2	N	3	c	#		o.r.g.	#	42	37	0.20
Berlin ...	29.55	40	NW	4	0		29.51	+4.2	38	37	-3	NW	5	r	#		0	#	43	34	0.28
Wiesbaden ...	#	#	#	#	#		29.84	+1.3	42	39	-3	N	2	c	#		#	#	46	41	0.55
Munich ...	29.86	36	N	4	r		29.79	-0.1	44	42	+5	SW	5	0	#		r	#	46	34	0.28
The Helder ...	29.48	40	SW	2	r		29.69		44	41		NW	5	c	4		r	#	45	39	0.20
<b>FRANCE &amp; BELGIUM.</b>																					
Brussels ...	#	#	#	#	#		29.90		38	38		SW	2	b	#		r	#	53	47	0.47
Cape Gris Nez ...	?	46	NW	7	0		?	?	44	41	-2	NW	3	c	3		0	#	53	37	0.51
Paris ...	29.86	55	SW	5	r		29.95	-0.7	46	46	+1	NW	1	r	#		r	#	57	45	0.28
Brest ...	29.99	55	SW	7	f		30.02	+0.3	54	54	0	N	6	r	#		f	#	55	54	0.08
Lorient ...	30.07	52	N	6	f		30.09	+0.1	54	54	0	SW	6	f	8		f	#	55	52	0.04
Rocheport ...	30.21	54	N	6	q		30.21	+0.2	54	52	0	NW	6	0	#		0	#	57	48	0.24
Belfort ...	29.94	44	SW	7	0		29.86	-1.6	48	48	+6	SW	8	r	#		0	#	48	42	0.35
Lyons ...	30.22	45	SSW	1	r		30.22	-0.2	53	49	+5	N	1	r	#		r	#	56	44	0.04
Nice ...	29.94	53	Z	0	bc		29.84	-0.3	51	47	-6	NW	1	bc	3		bc	#	61	50	-
Perpignan ...	30.34	58	NW	2	b		30.32	+0.1	55	48	-5	NW	3	0	#		b	#	63	54	-
Biarritz ...	30.43	55	N	3	bc		30.40	+0.2	55	52	-2	SW	4	0	5		bc	#	57	52	-
<b>PORTUGAL.</b>																					
Corunna ...																					
Lisbon ...																					
Azores (P. Delgada)	30.13	62	S	5	bc		30.09	-0.4	63	61	+3	S	6	0	6		bc	#	66	60	-

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, 14<sup>th</sup> January, 1899.*

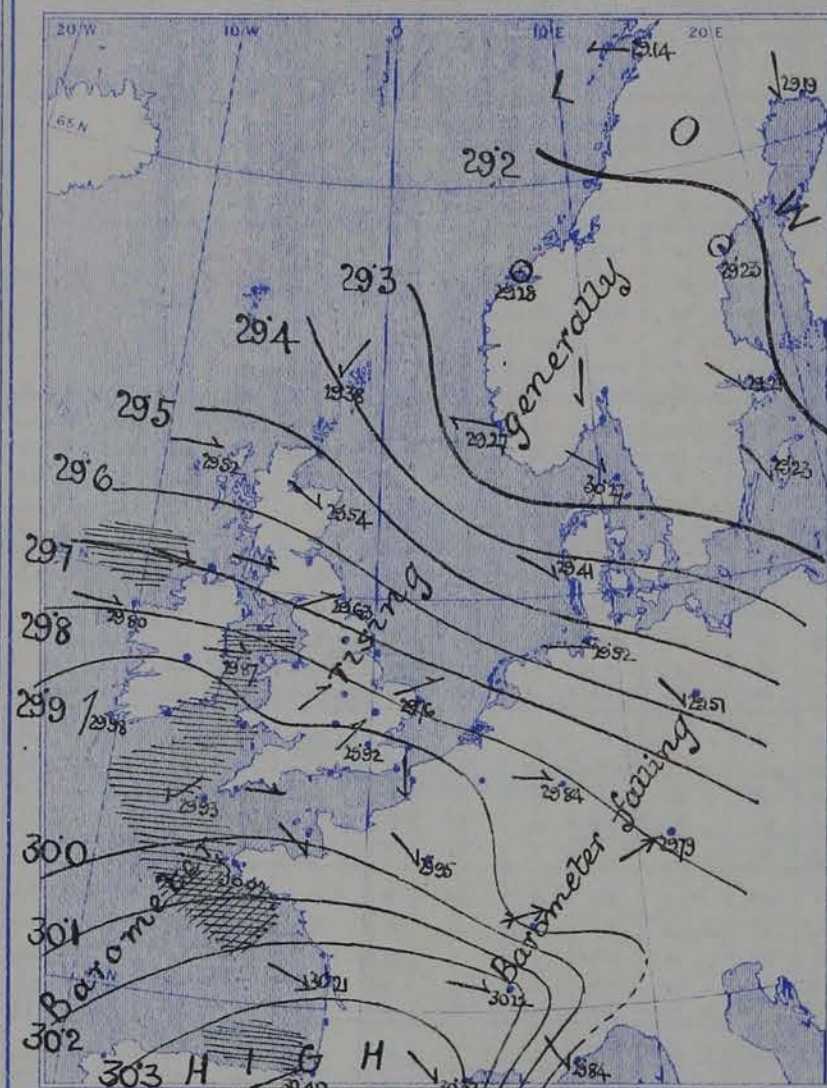
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough : High :

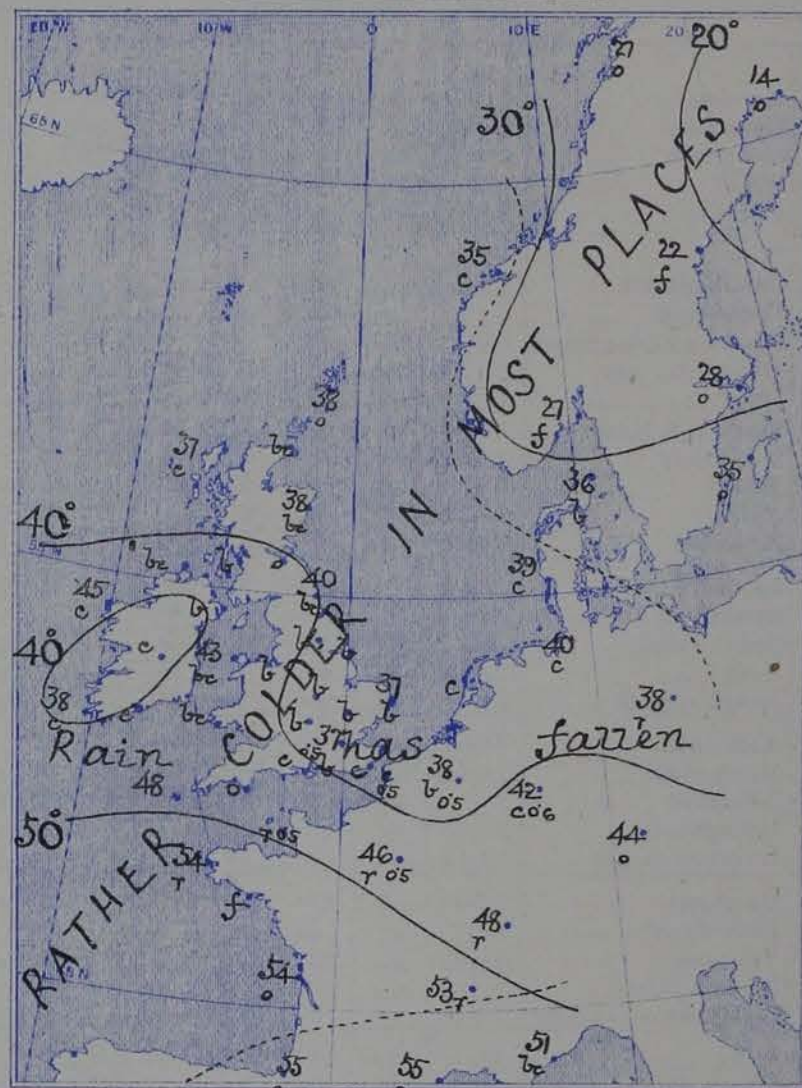


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1880, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.03	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	29.912	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards over the Spanish Peninsula.  
 Lowest, 29.2 in. and less, over the Gulf of Bothnia and the northern parts of Sweden; 29.9 in. and less in a depression over the northeast of France, and  
 Gradients moderate or slight generally, but rather steep over the eastern and southern parts of France.  
 Barometer rising over northern Europe generally, but falling in Germany and the east and south of France.

## TEMPERATURE

Highest, 55° at Biarritz and Perpignan, 54° at Brest, Lorient, and Rochefort, 53° at Lyons, 51° at Nice, and 50° at Jersey.  
 Lowest, 14° at Haparanda, 21° at Helsingfors, 23° at Karlsbad, and 27° at Rome and Tientsin; lowest in our Islands 34° at Cambridge and Penzance.  
 Light frost occurred last night in several parts of the United Kingdom; in London the thermometer on the grass fell to 29° and at Loughborough to 30°.

## WIND

W (SW to NW) over Western Europe generally; light or moderate in force in most places, but strong at several of the French stations, with a gale at Brest.  
 NE in the Shetlands and E in the coast of Norway, but N or NW in Sweden.

## WEATHER

Fair or fine over northern Europe generally, but dull in Sweden, Germany, and France, with rain in several places.  
 Fog is reported at Brest and Lorient and also at Tientsin.  
 Rain fell yesterday, in most parts of Western Europe, the largest amount being 0.6 in. at Wiesbaden, and 0.5 in. at Jersey, London and Cape de Verde. Lightning was seen last night at Andersons.

## SEA

Rough at Brest and Brest, and rather rough in several parts of our own western and the French coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression which passed across England yesterday, has apparently moved away to the southward. There are at present no very distinct indications of the advance of any new disturbance, but the wind in the south of Ireland is backing to the S.W. again, and the general appearance is not at all settled.

# FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	NW <sup>ly</sup> winds, backing later, fair at first then cloudy and unsettled.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as N°5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	W <sup>ly</sup> to SW <sup>ly</sup> winds, moderate or fresh; fair at first, cloudy later, probably some rain.
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	W <sup>ly</sup> to S <sup>ly</sup> winds, fine at first, some rain later.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	S <sup>ly</sup> and SE <sup>ly</sup> winds, freshening; dull, some rain.
10	IRELAND SOUTH	

## WARNINGS

The South Cone is still flying in district 10

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Direc.						Dry.	Wet.	Direc.			
Skudesnaes ...	29.30	39	38	Z	0	0	3	Valencia ...	29.66	45	42	NW	4	cv	5
Sumburgh Head	29.05	40	38	W	3	bc	4	Scilly ...	29.75	55	55	W	8	m	6
Stornoway ...	29.20	42	41	W	4	c	4	Jersey ...	29.87	55	54	W	6	0	5
Aberdeen ...	29.32	38	35	SW	3	cg	4	Hurst Castle ...	29.65	53	52	W	6	rm	4
Shields ...	29.47	42	40	SW	2	0	2	Dungeness ...	29.63	48	48	SSW	4	r	3
Ardrossan ...	29.43	43	43	W	4	0	4	North Foreland							
Malin Head ...	29.53	42	40	W	5	bc	5	London (Westminster)	29.58	44	44	S	2	qf	#
Behmullet ...	29.63	43	41	W	4	bc	#	Yarmouth ...	29.61	42	40	SW	4	or	4
Holyhead ...	29.55	42	42	W	3	dgm	2	Rochefort ...	30.16	55	54	W	6	0	#

## 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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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on Sunday 15<sup>th</sup> January, 1899.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
																	Max.	Min.	Rainfall.		
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)								
SCANDINAVIA.	Haparanda ...	Ins.	0	N	2	o	Ins.	Ins.	0	0	0	NNE	4	0	5	0	18	9	0.08		
	Hernösand ...	29.34	19	Z	0	f	29.38	+ .15	8	8	- 14	Z	0	b	5	23	2	-			
	Stockholm ...	29.41	27	W	2	o	29.48	+ .27	22	21	- 6	W	2	o	5	32	22	-			
	Wisby ...	29.44	32	NNW	4	o	29.58	+ .35	31	29	- 4	SW	4	o	5	35	28	-			
	Karistad ...	29.06	20	NW	2	b	29.41	+ .14	27	26	+ 4	Z	0	o	5	-	-	-			
	Bodo ...	29.23	27	E	4	b	29.27	+ .13	19	16	- 8	E	4	b	1	28	18	-			
	Christiansund ...	29.37	34	WSW	6	s	29.39	+ .11	33	31	- 2	WSW	3	s	4	34	30	0.10			
	Skudesnaes ...	29.51	39	SSE	2	o	29.41	+ .14	38	37	+ 3	Z	0	bc	3	39	34	-			
	Færder (Christiania Fjord)	29.48	29	Z	0	b	29.40	+ .12	27	26	0	NW	1	m	3	37	26	-			
	Skagen (The Scaw)	29.52	33	Z	0	b	29.47	+ .20	36	35	0	SW	2	o	0	37	30	0.04			
Fanø ...	29.68	38	NW	3	c	29.69	+ .28	40	39	+ 1	NW	6	f	5	41	36	0.30				
BRITISH ISLANDS.	Sumburgh Head	29.33	37	SSW	2	c	29.55	+ .17	36	32	- 2	N	3	bc	4	41	33	0.13			
	Stornoway ...	29.46	41	WNW	6	r	29.63	+ .11	33	32	- 4	NW	3	b	3	42	30	0.20			
	Wick ...	29.46	36	NW	3	c	29.62	+ .08	31	31	- 4	NW	2	bc	1	40	30	0.05			
	Nairn ...	29.55	37	W	2	bc	29.67	+ .12	35	34	- 3	Z	0	bc	1	43	34	0.12			
	Aberdeen ...	29.60	39	SW	3	bc	29.69	+ .15	35	34	- 3	W	3	c	1	42	34	0.01			
	Leith ...	29.69	43	WSW	3	b	29.68	+ .06	42	39	+ 2	WSW	1	o	5	45	38	-			
	Shields ...	29.79	42	WSW	3	bc	29.74	+ .11	45	43	+ 5	SW	2	om	2	46	39	-			
	Spurn Head ...	29.87	41	WSW	3	b	29.84	+ .10	38	37	- 1	SW	3	o	3	44	37	-			
	York ...	29.86	43	W	2	b	29.82	+ .07	40	38	- 1	S	1	o	5	46	39	-			
	Loughborough ...	29.95	40	W	2	b	29.91	+ .07	36	35	- 1	SE	1	ogm	5	48	36	-			
GERMANY & HOLLAND.	Ardrossan ...	29.74	45	W	4	pg	29.68	- .01	44	44	0	SE	1	o	1	48	43	0.07			
	Malin Head ...	29.75	45	W	4	c	29.63	- .09	41	41	- 3	SSE	2	o	1	45	41	0.02			
	Belmullet ...	29.85	46	W	6	c	29.65	- .25	44	44	- 1	W	2	o	5	47	43	0.06			
	Donaghadee ...	29.85	43	SSW	4	bc	29.73	- .06	40	40	+ 2	SW	3	c	1	45	34	-			
	Liverpool (Bidston)	29.94	41	W	4	b	29.81	+ .04	41	40	- 1	SSE	2	c	2	45	38	-			
	Holyhead ...	29.96	46	W	4	o	29.75	- .12	45	45	+ 2	S	3	rgm	2	48	40	0.03			
	Parsonstown ...	29.98	43	SW	1	o	29.62	- .30	45	45	+ 11	S	1	r	5	45	33	0.14			
	Valencia ...	29.99	46	SSW	3	o	29.62	- .36	54	53	+ 16	SSW	5	rm	5	25	54	37	0.35		
	Roche's Point ...	30.03	46	W	2	bc	29.68	- .31	51	51	+ 11	SW	6	r	5	51	40	0.50			
	Pembroke (St. Ann's Hd.)	30.04	46	W	4	bc	29.74	- .21	52	52	+ 6	WSW	7	dm	5	52	45	0.41			
FRANCE & BELGIUM.	Seilly ...	30.06	48	Z	0	o	29.89	- .04	53	52	+ 5	SW	6	m	5	53	46	0.17			
	Prawle Point ...	30.09	44	WNW	2	bc	29.91	- .05	51	50	+ 7	SW	4	om	4	51	40	0.13			
	Jersey (St. Aubin's)	30.07	49	SE	2	o	30.03	+ .07	54	53	+ 4	WSW	5	or	5	54	47	0.24			
	Hurst Castle ...	30.05	42	W	1	c	29.92	- .03	50	49	+ 5	SSW	4	rm	2	50	40	0.07			
	Dungeness ...	30.00	39	W	2	b	29.97	+ .06	47	46	+ 8	SW	4	c	3	48	38	-			
	North Foreland																				
	London (Brixton) ...	30.01	40	SW	2	bc	29.94	+ .02	39	38	+ 2	S	2	o	5	46	37	-			
	Oxford ...	30.05	39	WSW	2	b	29.94	+ .02	39	38	+ 2	SSE	1	r	5	47	35	-			
	Cambridge ...	29.99	36	SW	2	b	29.95	+ .06	36	36	+ 2	SSW	2	o	5	47	33	-			
	Yarmouth ...	29.90	40	W	3	b	29.93	+ .17	36	35	- 1	SW	2	cm	2	43	34	-			
PENIN- SULA.	Cuxhaven ...	29.61	42	W	6	r	29.79	+ .27	40	39	0	SW	5	o	5	42	37	0.08			
	Berlin ...	29.63	40	NW	5	r	29.90	+ .39	38	37	0	WNW	3	o	5	41	38	0.04			
	Wiesbaden ...	#	#	#	#	#															
	Munich ...	29.96	36	W	5	b	30.21	+ .42	35	33	- 9	W	4	c	5	45	34	-			
	The Helder ...																				
	Brussels ...	#	#	#	#	#	30.08	+ .18	36	35	- 2	WSW	3	c	5	48	33	-			
	Cape Gris Nez ...	?	42	NW	3	b	?	?	47	44	+ 3	SW	5	o	5	46	41	-			
	Paris ...	30.10	47	WSW	1	r	30.17	+ .22	41	41	- 5	SSW	1	o	5	49	38	0.20			
	Brest ...	30.08	54	W	3	o	30.10	+ .08	54	53	- 0	SW	2	o	5	54	50	0.20			
	Lorient ...	30.15	54	W	6	f	30.17	+ .08	53	53	- 1	W	6	f	7	55	50	0.47			
FRANCE & BELGIUM.	Rochefort ...	30.24	54	W	5	o	30.29	+ .08	54	52	0	W	4	o	5	55	50	0.08			
	Belfort ...	30.01	43	SW	2	o	30.23	+ .37	39	39	- 9	WSW	3	f	5	49	37	0.28			
	Lyons ...	30.13	54	NW	2	r	30.29	+ .07	50	48	- 3	W	1	o	5	58	48	0.04			
	Nice ...	29.87	53	S	2	bc	30.02	+ .18	49	44	- 2	E	1	bc	2	64	48	-			
	Perpignan ...	30.32	57	NW	3	b	30.32	00	58	49	+ 3	NW	3	b	5	60	54	-			
	Biarritz ...	30.41	56	WSW	4	o	30.41	+ .01	55	52	0	S	3	o	3	59	54	-			
	Corunna ...	30.47	61	SW	3	bc	30.63	+ .13	54	50	- 1	SW	8	bc	3	61	46	-			
	Lisbon ...	30.59	52	NNW	3	bc	30.59	- .07	42	42	- 6	NNE	2	f	5	59	41	-			
	Azores (P. Delgada)	30.02	64	SSW	6	o	30.09	00	56	54	- 7	NW	4	o	4	66	54	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 54 hrs;



# WEATHER CHARTS

FOR Sunday, 15<sup>th</sup> January, 1899.

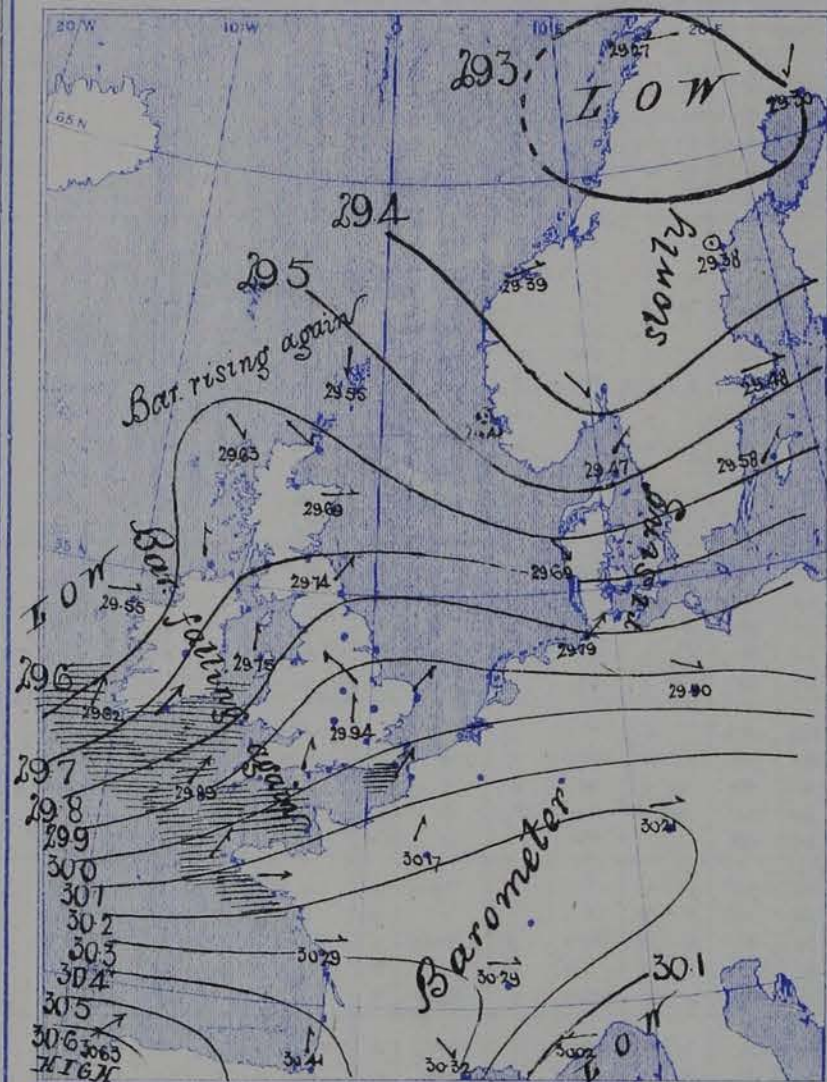
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

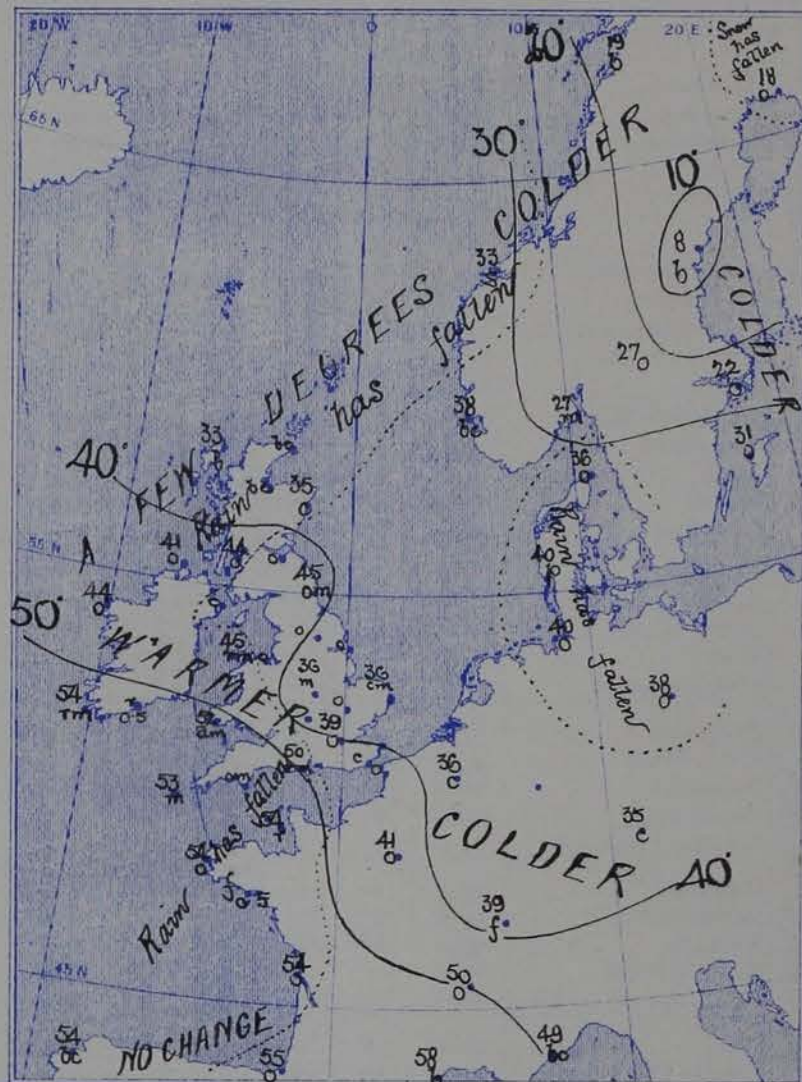


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.0	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsloestown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.63 in. at Genoa, 30.3 in. and upwards in an anticyclone extending from the Spanish Peninsula over the southern part of France.  
 Lowest, 29.3 in. and less, in a shallow depression over the northern parts of Scandinavia; 29.6 in. and less, in another distinct area off the west of Ireland.  
 Gradients moderate or slight generally, but steep over the Bay of Biscay.  
 Barometer falling in most parts of our Islands, brisely in the west; rising at the Continental stations.

## TEMPERATURE

Highest, 58° at Perpignan, 55° at Biarritz, and 54° at Valencia (Ireland), Jersey, Brest, Rochefort and Genoa.  
 Lowest, 8° at Heriö, 18° at Haparanda, 19° at Bodö, and 22° at Stockholm; lowest in our Islands 31° at Wick and 33° at Tonnaway.  
 Frost occurred last night in the north of Scotland, and on the surface of the ground in many other parts of the United Kingdom.

## WIND

SW over Ireland, England, and the neighbouring parts of the Continent, and strong in force on our southwest coasts.  
 Light from the NW in the north of Scotland and from the W over the southern parts of Scandinavia; E or NE in the north of Scandinavia.  
 Variable in the south of France, light from the N at Lisbon.

## WEATHER

Cloudy or dull over Western Europe as a whole, with rain at several of our own western and southern stations.  
 Fine in the north of Scotland, and also in the extreme south of France, and at many of the Norwegian stations but snow falling at Christiania and  
 Since yesterday morning rain has fallen in the western, southern, and extreme northern parts of our Islands generally, as well as at many of the Continental stations.

## SEA

Rather rough on our southwest coasts and also off the north of France, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 16<sup>TH</sup> JAN: 1899.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

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

NONE ISSUED.

## WARNINGS

At 7.0 pm yesterday to districts 0, 6, and parts of 1 and 9 Hoist North Cone, and at 9.40 am today to districts 5, 7, 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.		WIND.	F.	WEA.	SEA.		BAR.		THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes	29.45	38	36	N	2	b	2	Valencia	30.00	49	45	SW	2	c	4	
Sumburgh Head	29.44	38	37	S	1	c	4	Scilly	30.03	49	48	NE	1	c	4	
Stornoway	29.50	41	39	W	4	o	4	Jersey	30.00	54	54	W	3	o	3	
Aberdeen	29.62	42	37	SW	1	b	1	Hurst Castle	30.00	49	45	NW	2	b	2	
Shields	29.76	45	43	SW	4	b	2	Dungeness	29.96	46	44	W	3	b	2	
Ardrossan	29.75	46	45	W	4	c	3	North Foreland								
Malin Head	29.75	45	44	WNW	4	b	4	London (Westminster)	29.97	47	43	W	2	b	#	
Belmullet	29.91	47	43	W	6	o	#	Yarmouth	29.85	43	40	W	4	b	3	
Holyhead	29.94	46	43	W	4	c	3	Rocheport	30.23	55	53	W	6	o	#	

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

Weather in morning fine over our Islands and the eastern shores of the North Sea, as well as in Greece and the southern parts of France and Italy. Cloudy, or dull elsewhere, with rain in many parts of France, Denmark, Germany and Austria, and snow at Helsingfors, Riga, Breslau, and Limburg. Rain falling later in the west and extreme north of our Islands, but amount mostly slight.

Temperature fallen in our Islands and the northern and central parts of the Continent, but risen in most other localities. Morning readings highest 59° at Malta and Algiers, 58° at Liphorn and Cagliari, and 57° at Longjumeau, above 50° over the greater part of France. Lowest 14° at Haparanda, 15° at Uleaborg, 22° at Heringsand, and 23° at Karlsbad; lowest in our Islands 34° at Cambridge and Banamoon. Rising during day to 45° and upwards on our south and south-east coasts; exceeding 55° over the Spanish Peninsula and the south of France and reaching 64° at Nice. Ground frost occurring over the United Kingdom at night.

Wind W (SW to NW) over Western and Central Europe generally; light or moderate in force in most places, but strong in France with a gale at Belfort. S over Central Russia, but E in the extreme northern part of that country and Scandinavia. Light and variable over Greece, Italy, and the Spanish Peninsula. No important change occurring over Western Europe during day.

Barometer highest 30.6 in. and upwards over the western and central parts of the Spanish Peninsula, 30.2 in. and upwards in an anticyclone embracing the greater part of southwestern Europe. Lowest 29.0 in. and less, in a shallow depression with its centre over the Gulf of Finland; small secondary disturbances reported over various parts of Central Europe. New depression appearing later off the north of Scotland. Barometer falling in that region, but rising in most other localities.

### 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, 16<sup>th</sup> January,* 1899.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.	
				At 32° and M.S.L.	Dry Bulb.		Dir.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.					Dir.	Force (0 to 12.)		Max.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.	
SCANDINAVIA.	Haparanda ...	29.36	14	N	2	c	29.31	+0.1	13	12	-5	N	2	0	#	c	#	21	9	0.08	
	Hernösand ...	29.62	10	Z	0	b	29.42	+0.4	-4	-7	-12	Z	0	0	#	b	#	19	?	-	
	Stockholm ...	29.40	23	Z	0	0	29.40	-0.08	17	17	-5	Z	0	0	#	0	#	27	17	0.24	
	Wisby ...	29.43	36	SSW	6	0	29.43	-0.15	30	30	-1	SE	4	0	#	0	#	36	27	0.08	
	Karlstad ...	29.47	21	HNW	2	0	29.34	-0.07	21	21	-6	NNE	2	5	#	0	#	#	#	-	
	Bodo ...	29.35	18	E	6	b	29.24	-0.03	19	17	0	E	6	0	2	b	#	?	?	-	
	Christiansund ...	29.32	32	MSW	2	0	29.12	-0.27	33	32	0	MSW	1	0	4	0	#	33	30	0.08	
	Skudesnaes ...	29.48	35	Z	0	m	28.95	-0.46	33	33	-5	ESE	6	8	4	cm	#	39	32	#	
	Færder (Christiania Fjord)	29.46	27	HNW	2	b	29.26	-0.14	24	23	-3	NE	2	0	3	b	#	28	23	-	
	Skagen (The Scaw)	29.45	38	HNW	2	c	29.22	-0.25	35	34	-1	SE	2	0	0	c	#	39	34	0.08	
Fanö ...	29.55	40	MSW	1	r	29.13	-0.56	43	43	+3	SSW	4	0	#	r	#	43	37	0.20		
	Sumburgh Head	29.40	32	HNW	1	S	28.78	-0.77	31	31	-5	N	4	5	5	S	#	37	30	0.08	
	Stornoway ...	29.31	35	SE	1	a	29.01	-0.62	34	33	+1	EHE	5	crsp	5	a.r	0.0	35	30	0.70	
	Wick ...	29.38	34	NW	1	0	28.89	-0.73	34	33	+3	NNE	7	orspu	5	0	#	39	30	0.50	
	Nairn ...	29.34	34	E	1	S	28.88	-0.79	35	33	0	N	2	0	2	S	#	40	32	0.40	
	Aberdeen ...	29.43	36	S	2	ogr	28.88	-0.81	38	37	+3	SW	3	bc	2	rgg	0.0	41	34	0.19	
	Leith ...	29.41	41	SSW	2	r	28.98	-0.70	45	43	+3	MSW	4	0	#	p	#	48	40	0.40	
	Shields ...	29.45	43	SW	1	om	29.11	-0.63	46	43	+1	SW	4	0	2	om.r	#	46	39	0.16	
	Spurn Head ...	29.47	47	SW	3	0	29.27	-0.57	45	44	+7	SW	4	0	4	ofp	#	51	37	0.12	
	York ...	29.46	41	S	1	mr	29.24	-0.58	47	44	+7	S	3	bc	#	orm	0.0	52	38	0.24	
	Loughborough ...	29.53	54	MSW	6	bc	29.38	-0.53	47	44	+11	SW	4	0	#	ymr.gp	#	55	34	0.31	
BRITISH ISLANDS.	Ardrossan ...	29.33	42	NE	3	rf	29.04	-0.64	46	46	+2	SSW	4	0	3	rf	#	46	42	0.16	
	Malin Head ...	29.23	49	?	?	cpm	28.97	-0.66	48	48	+7	SW	5	pm	3	r.cpm	#	49	41	0.20	
	Belmullet ...	29.37	50	N	7	0	29.02	-0.53	45	43	+1	N	3	0	#	0	#	50	43	0.06	
	Dónaghadee ...	29.36	49	SW	3	bc	29.11	-0.62	44	42	+4	MSW	5	0	3	bc	#	49	39	0.19	
	Liverpool (Bidston)	29.52	49	MSW	5	c	29.29	-0.52	47	43	+6	MSW	4	0	3	rm.c	#	53	39	0.44	
	Holyhead ...	29.54	51	SW	5	cm	29.26	-0.49	48	46	+3	SW	6	cm	4	afcm	#	52	45	0.14	
	Parsonstown ...	29.47	52	SW	2	0	29.17	-0.45	45	43	0	SW	1	0	#	om	0.0	53	44	0.06	
	Valencia ...	29.51	53	SSW	6	om	29.21	-0.41	48	44	-6	SW	8	rm	6	om	0.0	54	43	0.15	
	Roche's Point ...	29.56	52	MSW	5	r	29.29	-0.59	50	46	-1	MSW	7	cq	5	p.tlq	#	54	45	0.15	
	Pembroke (St. Ann's Hd.)	29.67	52	SW	5	f	29.35	-0.39	51	49	-1	MSW	7	0	5	of	0.0	53	49	0.12	
	Seilly ...	29.79	53	SSW	7	m	29.57	-0.32	51	50	-2	MSW	7	op	6	om	0.0	56	49	0.26	
	Prawle Point ...	29.81	52	MSW	6	f	29.57	-0.34	50	49	-1	SW	5	cq	4	ofq	#	53	48	0.21	
	Jersey (St. Aubin's)	29.96	52	SW	3	odp	29.74	-0.24	51	49	-3	MSW	5	opm	4	odp	#	51	50	0.26	
	Hurst Castle ...	29.78	52	MSW	6	md	29.59	-0.33	50	49	0	SW	4	om	3	md	#	52	49	0.28	
	Dungeness ...	29.70	51	MSW	6	rq	29.56	-0.41	49	48	+2	MSW	5	0	4	ora	#	51	47	0.16	
	North Foreland																				
	London (Brixton) ...	29.70	54	MSW	5	0	29.52	-0.42	47	46	+8	N	4	0	#	ora	0.0	54	39	0.44	
	Oxford ...	29.69	53	SW	5	0	29.48	-0.46	49	46	+10	SW	5	og	#	ora	#	54	39	0.24	
	Cambridge ...	29.63	54	SW	5	og	29.46	-0.49	48	46	+12	SW	5	0	#	ora	0.0	55	35	0.44	
	Yarmouth ...	29.57	47	SW	3	0	29.39	-0.54	48	45	+12	SW	5	cq	4	od	#	49	35	0.11	
GERMANY & HOLLAND.	Cuxhaven ...	29.74	40	SW	4	0	29.27	-0.52	47	46	+7	SW	6	0	#	ora	#	48	37	0.12	
	Berlin ...	29.82	40	N	3	0	29.50	-0.40	48	48	+10	N	3	0	#	0	#	48	36	0.12	
	Wiesbaden ...	#	#	#	#	#	29.78	-0.49	49	46		SW	2	0	#	#	#	?	39	0.67	
	Munich ...	30.08	44	N	5	0	29.96	-0.25	45	41	+10	SW	7	0	#	0	#	45	34	0.20	
	The Helder ...	29.56	41	S	2	r	29.39	-0.48	48	46		MSW	4	0	4	r	#	43	41	0.35	
	Brussels ...	#	#	#	#	#	29.63	-0.45	50	?	+14	SW	7	0	#	r	#	53	35	0.28	
	Cape Gris Nez ...	?	52	MSW	7	0	?	?	51	50	+4	N	6	0	6	0	#	52	41	0.43	
	Paris ...	30.02	53	SW	4	c	29.87	-0.30	50	48	+9	SSW	5	0	#	c	#	55	41	0.12	
	Brest ...	30.00	54	SW	5	0	29.79	-0.31	50	48	+4	SW	5	0	5	0	#	55	48	-	
	Lorient ...	30.07	54	N	6	f	29.82	-0.35	50	50	-3	N	6	0	6	f	#	54	48	0.12	
FRANCE & BELGIUM.	Rocheport ...	30.23	54	N	4	bc	30.11	-0.18	54	51	0	SW	5	0	#	o.bc	#	57	48	-	
	Belfort ...	30.07	48	SW	7	r	30.05	-0.18	46	39	+7	MSW	5	0	#	r	#	49	39	0.16	
	Lyons ...	30.30	50	S	1	c	30.21	-0.08	42	41	-8	SSW	1	0	#	c	#	53	39	0.04	
	Nice ...	30.10	55	E	3	b	30.06	+0.04	47	45	-2	Z	0	0	1	b	#	64	45	-	
	Perpignan ...	30.34	57	HNW	3	bc	30.24	-0.08	40	37	-18	N	2	0	#	bc	#	64	39	-	
	Biarritz ...	30.34	59	S	3	0	30.11	-0.30	55	45	0	S	2	0	2	0	#	61	45	-	
	Corunna ...																				
	Lisbon ...	30.49	48	NNE	3	b	30.45	-0.14	37	37	-5	NNE	4	f	#	b	#	50	37	-	
	Azores (P. Delgada)	30.27	54	NW	4	0	30.35	+0.26	52	47	-4	NW	3	bc	3	0	#	64	50	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

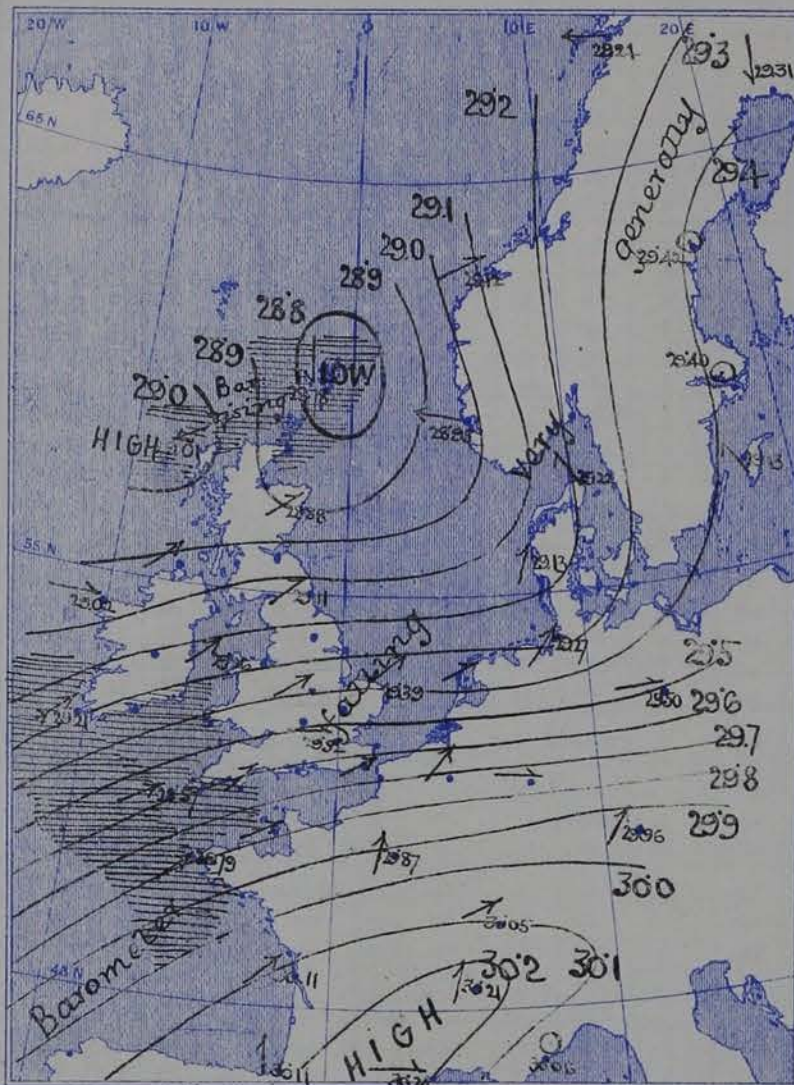
FOR *Monday, 16<sup>th</sup> January, 1899.*

## BAROMETER, WIND AND SEA.

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

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

Force above 10 →→→ ; Force 5 to 7 →→→ ; } Calm ○  
Force 8 to 10 →→→ ; Force 1 to 4 →→→ ; }  
SEA—Rough ≡≡≡ ; High ≡≡≡

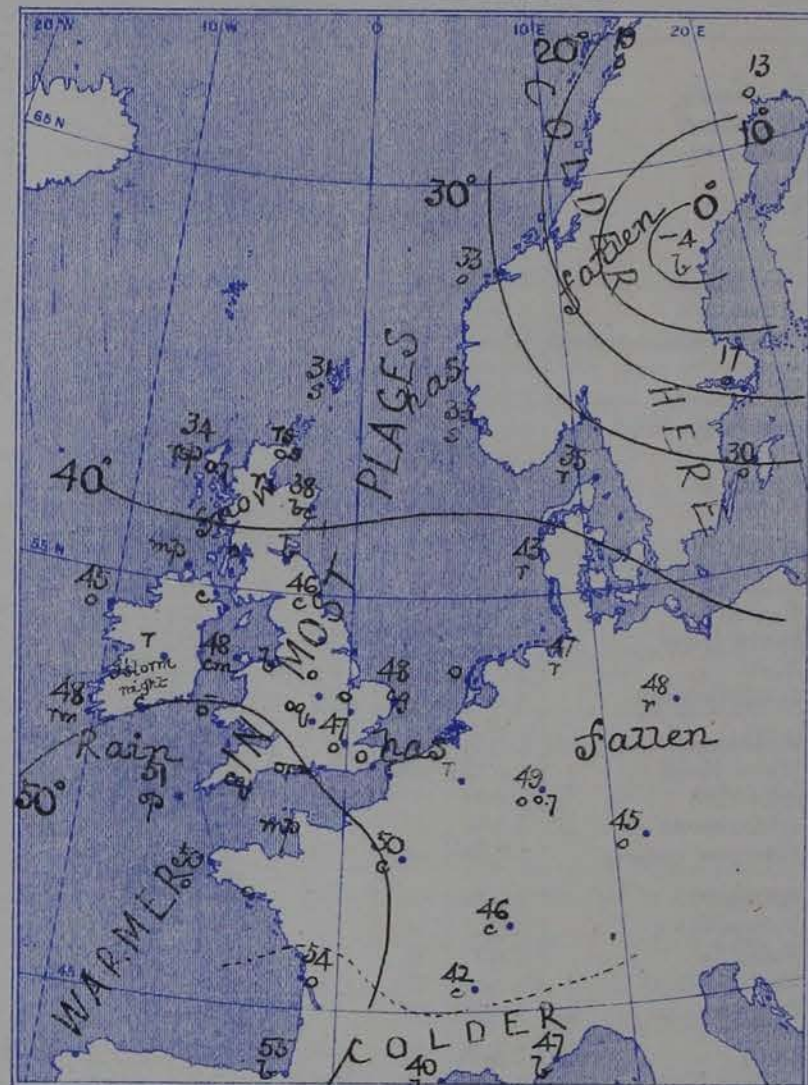


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.45 in. at Lisbon; 30.2 in. and upwards in an anticyclone spreading from the Spanish Peninsula over the south of France.  
Lowest, 28.6 in. and less, in the centre of a depression lying a little to the eastward of the Shetlands; 28.9 in. and less (apparently) in another disturbance off the northwest of Ireland.  
Gradients rather steep generally.  
Barometer falling in most places, but rising again in the extreme north of Scotland.

## TEMPERATURE

Highest, 55° at Biarritz, 54° at Rochefort, and 51° at Penmarch, Lundy, Jersey and Cape Gris Nez.  
Lowest, -4° F. at Haparanda, +13° at Haparanda, 17° at Stockholm, and 19° at Oslo; lowest in our Islands 31° at Lumbung Head.  
During yesterday, the thermometer rose to between 50° and 55° at most of the English and Irish stations, and to 56° at Lundy.

## WIND

Fresh to strong from the S.W. over the greater part of our Islands, France, Germany, and the Netherlands, with a gale at Valparaiso (Ireland).  
E or N.E. at most of the Scandinavian stations; N in the extreme north of Scotland, with a moderate gale at Wick.

## WEATHER

Cloudy and unsettled over Western Europe as a whole, with rain in many parts of our Islands, the Netherlands, Germany, and Denmark, and sleet or snow in the north of Scotland, as well as at Rudesnaes.  
Fine in the west of Scotland and the north of England, as well as in the extreme south of France.  
Rain fell yesterday in nearly all parts of our area, the largest amount being 0.7 in. at Honoum, and 0.5 in. at Wick. Thunder and lightning occurred last night at Rudesnaes.

## SEA

Rough or rather so on our southern and extreme northern coasts and also on the north coast of France, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions in the north seem likely to move slowly eastwards. Squally and very changeable weather will probably continue over our Islands for the present, with gales on many parts of our coasts.

# FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> JAN: 1899.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	N <sup>2</sup> and NE <sup>2</sup> gales and strong winds; squally with snow showers.
1	SCOTLAND EAST	Wind veering to the N <sup>2</sup> and increasing in force; squally, with snow showers.
2	ENGLAND N.E.	Same as No 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW <sup>2</sup> to W <sup>2</sup> winds, strong to a gale; squally, rain at times.

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	SW <sup>2</sup> and W <sup>2</sup> gales and strong winds; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	At 10.20 am today to district 1 "Hoist North Cone" and to districts 2 and 3 "Hoist South Cone". The signals are now flying on all coasts.
10	IRELAND SOUTH	

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.49	39	37	N.W.	H	C	3	Valencia ...							
Sumburgh Head ...								Scilly ...							
Stornoway ...	29.49	35	35	2	0	om	0	Jersey ...	29.99	53	53	N.W.	H	0	H
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.77	51	51	N.W.	5	0	H
Ardrossan ...								North Foreland ...							
Malin Head ...	29.37	42	42	SSE	3	r	2	London (Westminster) ...							#
Belmullet ...							*	Yarmouth ...							
Holyhead ...								Rocheport ...	30.27	55	53	W	H	0	#

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

*Continental Information not received.*

### SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 8<sup>th</sup> TO THE 14<sup>th</sup> JANUARY 1899.

At the commencement of the week the barometer was high in all the more eastern and central parts of Europe, the weather in our Islands being influenced by a rather deep cyclonic system, which moved northwards along our extreme western coast, and which occasioned gales or very strong winds from the S.W. in Ireland and the south-west of England. Later on pressure began to give way in the north, and the depressions which arrived off our Atlantic shores spread further eastward, changeable, showery weather being experienced over northern Europe generally, and snow in some of the northern countries.

On the evening of the 11<sup>th</sup> a disturbance of moderate depth was passing away to the northward of Scotland, and the barometer was rising steadily on our western coast. In the course of the night, however, the centre of a very deep depression advanced to the north-west of Ireland, the system afterwards moving quickly eastwards across Scotland and the North Sea to Denmark and the Baltic and eventually to Russia. The passage of the disturbance was marked by violent gales from S.W. and W. firstly in Ireland, England, and the neighbouring parts of France and afterwards over Central Europe, the weather being in a very squally, unsettled state, with however, a moderate amount of rain in these Islands. The departure of the storm system from our Islands, was followed quickly by the advance of other disturbances from the Atlantic. These, however, were of no great depth, and although the wind in the Channel again increased to a gale on the 13<sup>th</sup> with a good deal of rain over England, the weather in other districts moderated considerably.

#### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on *Tuesday 17<sup>th</sup> January, 1899.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.				BAROMETER.	TEMPERATURE.	WIND.								TEMP.			
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)	Weather		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Ins.	°					Ins.	Ins.	°	°	°							°	°	Ins.
	Haparanda ...	29.28	5	N	2	b	29.33	+ .02	-4	-5	- 17	N	2	b	#	b	#	18	?	0.04
	Hernösand ...	29.31	7	Z	0	o	29.25	- .17	11	10	+ 15	NNE	4	s	#	o	#	11	-8	-
	Stockholm ...	29.08	29	NE	4	s	28.81	- .59	34	33	+ 17	NE	2	s	#	s	#	34	10	0.51
	Wisby ...	29.07	33	SE	4	o	28.89	- .54	38	37	+ 8	SSW	4	o	#	o	#	38	27	0.24
	Karlstad ...	28.91	26	E	6	s	28.78	- .56	28	28	+ 7	W	2	o	#	s	#	#	#	0.32
	Bodo ...	29.16	19	E	5	b	29.22	- .02	18	15	- 1	E	4	b	1	b	#	19	16	-
	Christiansund ...	28.80	33	WSW	2	o	28.98	- .14	28	27	- 5	NE	5	s	4	o	#	33	27	-
	Skudesnaes ...	28.75	37	NW	8	c	28.97	+ .02	36	34	+ 3	NW	8	c	4	c	#	39	33	#
	Færder (Christiania Fjord)	28.84	27	NNE	4	s	28.82	- .42	24	22	0	WNW	4	b	3	s	#	27	23	0.16
BRITISH ISLANDS.	Skagen (The Scaw)	28.84	40	WSW	3	c	28.87	- .35	36	33	+ 1	WNW	4	b	1	c	#	40	32	0.32
	Fanø ...	28.97	43	WSW	6	c	29.18	+ .05	39	36	- 4	WNW	7	b	#	c	#	45	37	0.08
	Sumburgh Head	28.91	33	NW	4	c	29.38	+ .60	32	30	+ 1	NW	7	o	6	c	#	34	28	0.03
	Stornoway ...	29.29	34	NNE	6	sq	29.75	+ .74	33	32	- 1	NNW	5	c	5	hp, b, sq	#	35	30	0.10
	Wick ...	29.14	31	N	5	c	29.60	+ .71	31	31	- 3	N	4	cs	3	c	#	37	27	0.10
	Nairn ...	29.20	32	NW	3	c	29.73	+ .85	32	30	- 3	NNW	3	s	3	c	#	35	29	0.20
	Aberdeen ...	29.11	33	NW	7	b, c	29.68	+ .80	30	28	- 8	WNW	6	b, c	3	rsq, b, c	#	39	29	0.05
	Leith ...	29.18	37	W	1	r	29.78	+ .80	32	30	- 13	WSW	3	b, m	#	rsq	#	46	31	0.23
	Shields ...	29.02	38	W	3	r	29.76	+ .65	31	30	- 15	WNW	3	b	3	op, rsq	#	48	30	0.25
	Spurn Head ...	29.04	42	WSW	7	cp, q	29.80	+ .53	35	34	- 10	WNW	5	b	5	cp, q, b	#	49	34	0.06
GERMANY & HOLLAND.	York ...	29.03	44	W	4	cp	29.87	+ .63	33	33	- 14	WNW	1	b	#	cp	#	49	31	0.11
	Loughborough ...	29.19	44	SW	7	c	29.90	+ .32	33	31	- 14	W	3	b	#	cp, b	#	52	30	0.04
	Ardrossan ...	29.19	37	W	3	o	29.84	+ .80	37	37	- 9	W	3	b	2	or, sp	#	49	32	0.05
	Malin Head ...	29.31	42	NW	5	b, cp	29.85	+ .88	39	36	- 9	WNW	2	b	2	c, b, cp	#	49	29	0.11
	Belmullet ...	29.46	41	NNE	5	b	29.89	+ .87	38	36	- 7	SE	3	o	#	o, b	#	46	33	0.10
	Donaghadee ...	29.20	41	NW	8	r	29.91	+ .80	33	32	- 11	WNW	4	b	3	r	#	45	30	0.03
	Liverpool (Bidston)	29.16	43	W	6	o	29.93	+ .64	39	34	- 8	NW	4	b	5	op	#	49	35	0.13
	Holyhead ...	29.21	46	WNW	8	cp, q	29.93	+ .67	41	37	- 7	NW	3	c	3	q, m, cp, q	#	49	37	0.02
	Parsonstown ...	29.34	42	NNE	1	r	29.96	+ .79	33	31	- 12	Z	0	o	#	or, q	#	46	30	0.16
	Valencia ...	29.36	48	W	10	hp, q	29.90	+ .69	44	42	- 4	SSE	4	rm	6	ch, p, q	#	49	37	0.22
FRANCE & BELGIUM.	Roche's Point ...	29.37	45	W	6	rq	29.98	+ .69	46	45	- 4	S	4	o	4	rq	#	51	38	0.15
	Pembroke (St. Ann's Hd.)	29.36	48	NW	7	b	30.00	+ .65	43	40	- 8	WNW	4	c, q	5	b	#	51	40	0.13
	Scilly ...	29.58	49	WSW	8	ch, p	30.05	+ .48	46	43	- 5	W	1	c	6	c, ch, q	#	54	42	0.04
	Prawle Point ...	29.62	46	WSW	7	c, q	30.09	+ .52	37	36	- 13	WNW	3	b	2	c, q, b	#	51	36	0.23
	Jersey (St. Aubin's)	29.65	51	W	6	cp, h, r, b	30.09	+ .35	44	39	- 7	NW	5	b	4	o, r, h, b	#	52	43	0.25
	Hurst Castle ...	29.46	49	W	6	b, p	30.03	+ .44	37	34	- 13	W	3	b	3	hp, b, cp, q	#	51	35	0.37
	Dungeness ...	29.39	49	WSW	6	c	29.96	+ .40	34	33	- 15	WNW	3	b	2	rq, c	#	51	32	0.11
	North Foreland																			
	London (Brixton) ...	29.36	43	WSW	4	o, d	29.96	+ .44	35	34	- 12	W	2	b	#	q, r, b, l	#	52	34	0.21
	Oxford ...	29.36	45	SW	5	b	29.97	+ .49	33	31	- 16	W	1	b	#	rh, q, b	#	51	33	0.09
PENIN- SULA.	Cambridge ...	29.26	45	SW	6	b	29.90	+ .44	33	30	- 15	W	1	b	#	b, p, q	#	52	31	0.02
	Yarmouth ...	29.20	46	WSW	6	b, q	29.82	+ .43	34	32	- 14	WNW	4	b	4	c, b, q	#	50	31	0.03
	Cuxhaven ...	29.20	45	SW	5	c	29.31	+ .04	39	37	- 8	WNW	5	ch, p	#	r, c	#	47	37	0.20
	Berlin ...	29.41	45	WSW	4	r	29.30	- .20	42	41	- 6	W	5	r	#	r	#	50	41	0.55
	Wiesbaden ...	#	#	#	#	#	29.67	- .11	44	41	- 5	SW	3	o	#	#	#	52	43	0.08
	Munich ...	29.73	51	SW	8	c	29.82	- .14	40	37	- 5	W	8	b	#	c	#	52	39	-
	The Helder ...																			
	Brussels ...	#	#	#	#	#	29.78	+ .15	38	37	- 12	NW	4	o	#	r	#	?	37	0.16
	Cape Gris Nez ...	?	49	W	7	o	?	?	39	37	- 12	N	6	c	6	o	#	52	37	0.20
	Paris ...	29.74	50	SW	4	o	29.83	- .04	46	43	- 4	NW	5	b	#	o	#	54	46	0.08
FRANCE & BELGIUM.	Brest ...	29.77	51	W	6	o	30.13	+ .34	50	49	0	NW	4	o	5	o	#	54	45	-
	Lorient ...	29.86	52	NW	7	r	30.16	+ .34	50	50	0	NW	6	o	6	r	#	55	45	0.04
	Rocheport ...	30.03	51	W	6	rq	30.16	+ .05	51	49	- 3	NW	5	b	#	rq	#	55	48	0.04
	Belfort ...	29.84	52	WSW	6	c	29.91	- .14	41	39	- 5	WSW	8	o	#	c	#	57	37	0.08
	Lyons ...	30.02	49	SSW	2	o	30.15	- .06	42	39	0	S	1	b	#	o	#	52	41	0.04
	Nice ...	30.02	49	Z	0	b	29.83	- .23	53	41	+ 6	NW	6	b	#	b	#	57	43	-
	Perpignan ...	30.09	48	S	1	b	30.26	+ .02	52	45	+ 12	NW	4	b	#	b	#	60	40	-
	Biarritz ...	30.15	55	W	5	c	30.29	+ .18	53	48	- 2	WNW	5	b	4	c	#	63	50	0.12
	Corunna ...																			
	Lisbon ...	30.39	51	N	4	o	30.40	- .05	48	45	+ 11	NNE	4	b	#	o	#	52	37	-
PENIN- SULA.	Azores (P. Delgada)	30.30	59	SSE	3	c	30.13	- .22	61	59	+ 9	S	4	o	5	c	#	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. 1.6 hrs.



# WEATHER CHARTS

FOR Tuesday, 17<sup>th</sup> January, 1899.

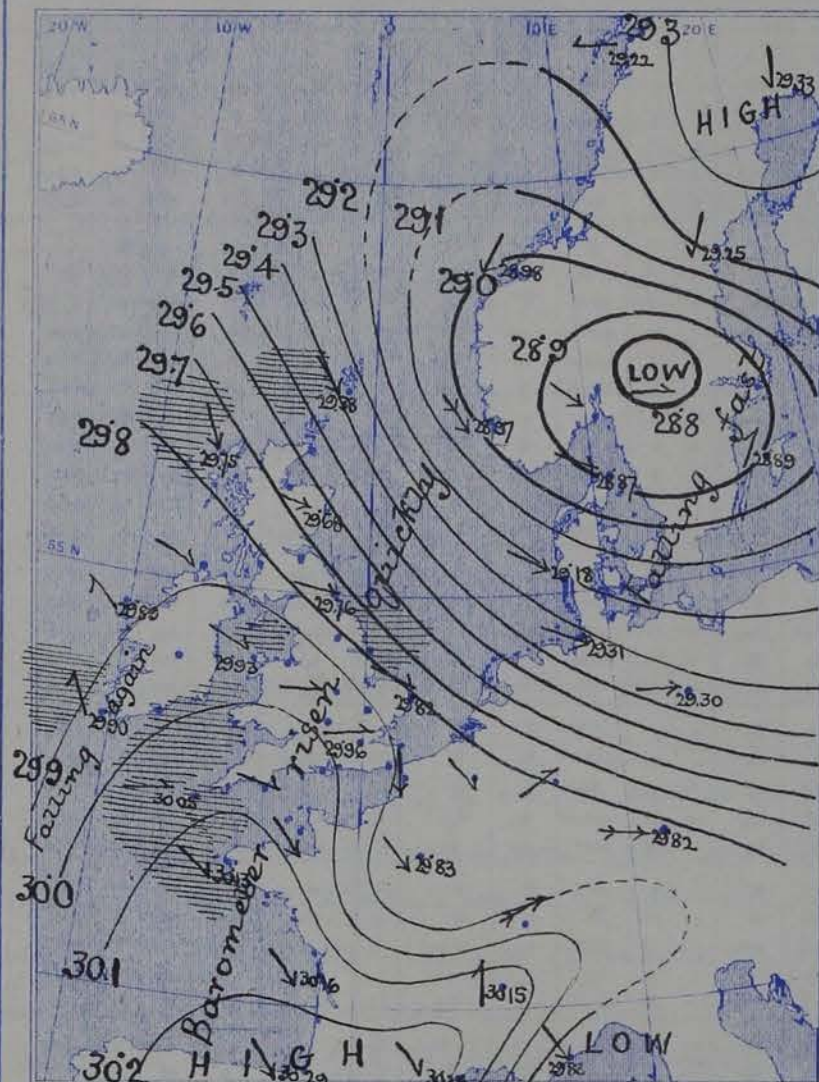
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ ; High ≡

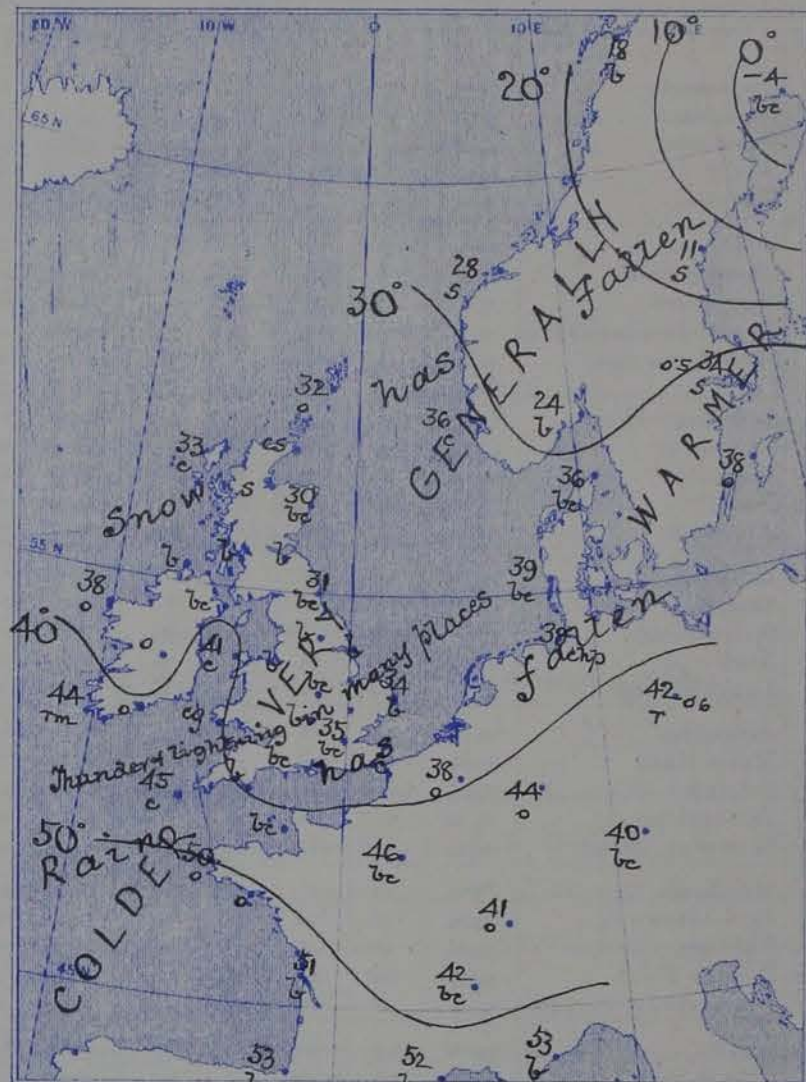


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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. to 30.3 ins. over Spain, and 30.2 ins. to 30.1 ins. over the Bay of Biscay.  
 Lowest Below 28.8 ins. in a depression near Harstad.  
 Gradients slight over almost the whole of our Islands, but very steep over the North Sea.  
 Barometer rising except in the extreme W, where a fresh fall was setting in.

## TEMPERATURE

Highest 50° to 53° in the S. and W. of France, 46° to 44° in the S. of Ireland, 43° at Scilly.  
 Lowest - 4° at Haparanda, 28° at Christiansund and Harstad; 30° to 33° at our own N.W. stations.  
 Minima were recorded early this morning as low as 29° in the shade over the N.W. parts of Gt. Britain, 34° in London, and 27° on the Grass in London, 24° at Loughborough.

## WIND

NW<sup>24</sup>, and strong, over the North Sea, lighter over the greater part of our Islands, and has backed to S. again in the west and south of Ireland.  
 It again blew hard - from NW. or W. - in many parts of our Islands last night.

## WEATHER

Fine in all parts of Gt. Britain, but has become dull again in the W. and S. of Ireland, with rain and mist at Valencia.  
 Showers have fallen generally - snow at some N.W. stations. Lightning occurred at the S.W. stations last night. Bright Sunshine recorded yesterday was very slight generally; the largest amount recorded were a little over 2 hrs. at Cambridge and Aberdeen.

## SEA

Still rough in many places, and inclined to rise again at Valencia (Ireland).

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression seems to be approaching us from the W; the South Cone has again been hoisted in Ireland.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>TH</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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

Wind shifting to S<sup>wd</sup> again, and blowing hard in the west, with rain.



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

Wind shifting to S<sup>wd</sup> again, and blowing hard in the west, with rain

At 10.20 am today to districts 9 and 10. Hoist South Cone.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	28.71	39	38	SSR	8	r	5	Valencia ...	29.33	48	45	WSW	8	chp	7
Sumburgh Head ...	28.93	30	29	N	3	c	4	Scilly ...	29.94	51	48	WSW	8	c	6
Stornoway ...	29.14	35	33	NE	4	b	4	Jersey ...	29.67	48	46	WSW	7	overh	5
Aberdeen ...	28.99	34	33	NW	7	orsg	3	Hurst Castle ...	29.47	50	47	WSW	6	chp	4
Shields ...	29.00	47	45	SW	3	op	2	Dungeness ...	29.43	50	50	WSW	6	rq	5
Ardrossan ...	28.92	45	45	W	4	p	3	North Foreland							
Malin Head ...	29.03	41	39	NNW	6	c	4	London (Westminster)	29.28	52	47	SW	4	cp	#
Belmullet ...	29.19	46	44	NNW	2	o	#	Yarmouth ...	29.26	50	47	SW	5	c	4
Holyhead ...	29.07	46	44	WSW	8	dmg	6	Rochefort ...	29.99	53	52	WSW	5	f	#

## 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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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 Wednesday 18<sup>th</sup> January, 1899.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			
				At 32° and M.S.L.	Dry Bulb.		Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.					Dirac.	Force (0 to 12.)	Max.	Min.
SCANDINAVIA.	Haparanda ...	Ins.	0				Ins.	Ins.	0	0	0							0	0	Ins.	
	Hernösand ...	29.47	-8	N	2	b	29.60	+ .27	11	11	+ 15	N	2	f	#	b	#	?	-13	—	
	Stockholm ...	29.45	10	NE	4	o	29.65	+ .40	6	5	- 5	N	2	o	#	o	#	14	5	—	
	Wisby ...	29.97	28	2	o	o	29.43	+ .62	23	23	- 11	NNE	6	o	#	o	#	34	23	0.39	
	Karlstad ...	29.37	33	NN	6	o	29.37	+ .48	30	29	- 8	N	8	o	#	o	#	38	30	0.16	
		29.18	17	NNW	8	o	29.65	+ .57	15	14	- 13	NW	2	b	#	o	#	#	#	—	
	Bodö ...	29.45	16	E	4	b	29.52	+ .20	18	18	0	E	4	c	1	b	#	18	12	—	
	Christiansund ...	29.45	31	ENE	1	o	29.62	+ .66	29	27	+ 1	WSW	6	b	4	a	#	30	27	—	
	Skudesnaes ...	29.48	36	NNW	6	bc	29.74	+ .77	31	31	- 5	2	o	bc	2	bc	#	37	30	#	
	Færder (Christiania Fjord)	29.25	26	NNW	6	o	29.67	+ .83	27	24	+ 3	NN	2	b	4	o	#	27	23	—	
BRITISH ISLANDS.	Skagen (The Scaw)	29.29	30	N	7	bc	29.69	+ .82	32	30	- 4	N	3	b	o	bc	#	36	28	—	
	Fanö ...	29.61	38	WNW	8	b	29.77	+ .59	35	34	- 4	WNW	2	b	#	b	#	41	35	0.04	
	Sumburgh Head	29.64	32	NW	4	o	29.60	+ .22	31	30	- 1	NNE	1	o	4	bc, o	#	35	26	0.06	
	Stornoway ...	29.76	30	NW	4	b	29.34	- .41	34	33	+ 1	SE	5	s	5	sp. b	#	1.6	35	25	0.15
	Wick ...	29.74	30	NN	2	bc	29.50	- .10	35	34	+ 4	S	4	aw	3	bc	#	37	27	0.10	
	Nairn ...	29.79	31	W	1	bc	29.49	- .24	33	32	+ 1	SE	1	s	1	bc	#	36	24	0.04	
	Aberdeen ...	29.83	32	WSW	3	b	29.57	- .11	35	34	+ 5	SE	6	ogrs	6	bc, b	#	38	28	0.04	
	Leith ...	29.86	35	WSW	1	o	29.50	- .28	34	33	+ 2	2	o	r	#	o, s	#	38	30	0.04	
	Shields ...	29.91	35	W	2	m	29.63	- .13	35	35	+ 4	SE	3	r	3	b, m, s	#	40	31	0.13	
	Spurn Head ...	29.93	37	WSW	4	c	29.67	- .13	40	40	+ 5	SW	3	o	4	b, e, r, s	#	40	35	0.12	
GERMANY & HOLLAND.	York ...	29.94	36	WNW	1	bc	29.65	- .22	35	35	+ 2	S	1	f	#	b, bc, s	#	44	32	0.15	
	Loughborough ...	29.98	37	SW	2	o	29.72	- .18	47	45	+ 14	WSW	3	o	#	bc, org,	#	47	32	0.18	
	Ardrossan ...	29.84	39	2	o	o	29.43	- .41	35	35	- 2	NE	2	r, f	2	ev, o, s, r	#	42	33	0.37	
	Malin Head ...	29.74	37	SSE	4	o	29.29	- .56	47	47	+ 8	S	5	r, g	2	o, r	#	47	34	0.54	
	Belmullet ...	29.66	41	SSE	4	o	29.37	- .52	51	51	+ 13	WSW	7	o	#	o	#	51	38	0.20	
	Donaghadee ...	29.83	39	SW	4	bc	29.50	- .41	47	47	+ 14	SW	5	o	3	bc	#	47	30	0.42	
	Liverpool (Bidston)	29.91	40	NW	2	o	29.65	- .28	48	46	+ 9	W	2	o	2	b, or	#	50	34	0.29	
	Holyhead ...	29.85	41	S	3	r	29.63	- .30	49	48	+ 8	SW	5	om	3	om, rmg	#	50	37	0.13	
	Parsonstown ...	29.71	43	SE	2	r	29.55	- .41	49	49	+ 16	S	1	o	#	or	#	50	32	0.33	
	Valencia ...	29.76	52	SW	4	o	29.55	- .35	53	52	+ 9	S	6	r, gm	6	rm, om	#	53	43	0.45	
FRANCE & BELGIUM.	Roche's Point ...	29.77	48	NW	1	o	29.68	- .30	50	50	+ 4	SW	6	r	5	o	#	50	43	0.52	
	Pembroke (St. Ann's Hd.)	29.78	45	SE	5	r	29.78	- .22	51	50	+ 8	WSW	7	og	5	r	#	51	43	0.31	
	Scilly ...	29.90	52	W	7	o	29.89	- .16	52	50	+ 6	SW	6	o	5	r, om	#	55	43	0.36	
	Prawle Point ...	29.98	50	SW	6	r	29.92	- .17	50	49	+ 13	WSW	4	cf	3	rg, om	#	51	37	0.23	
	Jersey (St. Aubin's)	30.10	47	SSE	3	rg	30.03	- .06	51	50	+ 7	SW	4	ap	4	org	#	51	44	0.22	
	Hurst Castle ...	30.01	45	SSW	3	r	29.92	- .11	50	49	+ 13	WSW	4	cm	3	om, r	#	51	36	0.22	
	Dungeness ...	30.05	43	W	3	c	29.88	- .08	49	48	+ 15	WSW	4	o	3	bc, c	#	49	34	0.06	
	North Foreland																				
	London (Brixton) ...	30.03	39	SSW	2	o	29.85	- .11	49	47	+ 14	SW	3	o	#	bc, or	#	1.5	50	34	0.14
	Oxford ...	29.94	38	SW	1	r	29.82	- .15	49	47	+ 16	SW	2	o	#	b, c, r	#	49	32	0.16	
PENIN- SULA.	Cambridge ...	30.03	35	SW	1	or	29.79	- .11	47	46	+ 14	SW	3	o	#	b, or	#	47	31	0.15	
	Yarmouth ...	29.98	36	WSW	3	bc	29.74	- .08	42	41	+ 8	SW	3	cm	4	b, bc	#	42	31	0.10	
	Cuxhaven ...	29.65	42	WNW	8	chrp	29.84	+ .53	36	35	- 3	W	1	c	#	chrp	#	42	34	0.08	
	Berlin ...	29.69	36	W	7	o	29.86	+ .56	34	33	- 8	WNW	6	b	#	c	#	45	34	0.08	
	Wiesbaden ...	#	#	#	#	#	30.01	+ .34	34	30	- 10	SE	1	o	#	#	#	46	34	0.12	
	Munich ...	30.12	34	SW	5	bc	30.13	+ .31	33	32	- 7	SW	3	s	#	bc	#	46	32	0.08	
	The Helder ...	29.93	40	W	6	c	29.84		36	35		S	1	r	1	c	#	43	36	—	
	Brussels ...	#	#	#	#	#	29.88	+ .10	47	47	+ 9	WSW	4	r	#	o	#	47	33	0.08	
	Cape Gris Nez ...	?	43	W	4	c	?	?	50	48	+ 11	WNW	6	o	6	c	#	52	34	0.16	
	Paris ...	30.22	39	WSW	1	bc	30.08	+ .25	50	49	+ 4	SW	3	o	#	bc	#	50	38	0.04	
PENIN- SULA.	Brest ...	30.09	52	SW	5	f	30.04	- .09	51	50	+ 1	WSW	5	c	5	f	#	54	48	0.04	
	Lorient ...	30.17	52	W	6	r	30.12	- .04	53	53	+ 3	W	5	o	5	r	#	35	50	0.04	
	Rochefort ...	30.27	50	W	3	bc	30.19	+ .03	51	50	0	WSW	3	bc	#	bc	#	55	48	—	
	Belfort ...	30.23	36	W	4	r	30.13	+ .22	39	39	- 2	WSW	7	o	#	r	#	52	33	0.12	
	Lyons ...	30.34	43	NW	2	bc	30.32	+ .17	38	37	- 4	SSE	1	o	#	bc	#	50	36	—	
	Nice ...	30.02	52	NW	1	b	30.12	+ .29	45	35	- 8	2	o	bc	1	b	#	61	45	—	
	Perpignan ...	30.33	53	NW	3	bc	30.34	+ .08	39	37	- 13	SW	2	b	#	bc	#	58	37	—	
	Biarritz ...	30.35	52	WSW	3	b	30.25	- .04	43	41	- 10	SE	3	b	5	b	#	55	43	—	
	Corunna ...																				
	Lisbon ...	30.33	50	NE	4	b	30.29	- .11	43	41	- 5	NE	3	b	#	b	#	57	43	—	
Azores (P. Delgada)	29.96	61	SSW	5	o	29.82	- .31	39	59	- 2	SW	4	o	5	o	#	64	55	0.35		

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport 2.4 hrs;



# WEATHER CHARTS

FOR Wednesday, 18<sup>th</sup> January, 1899.

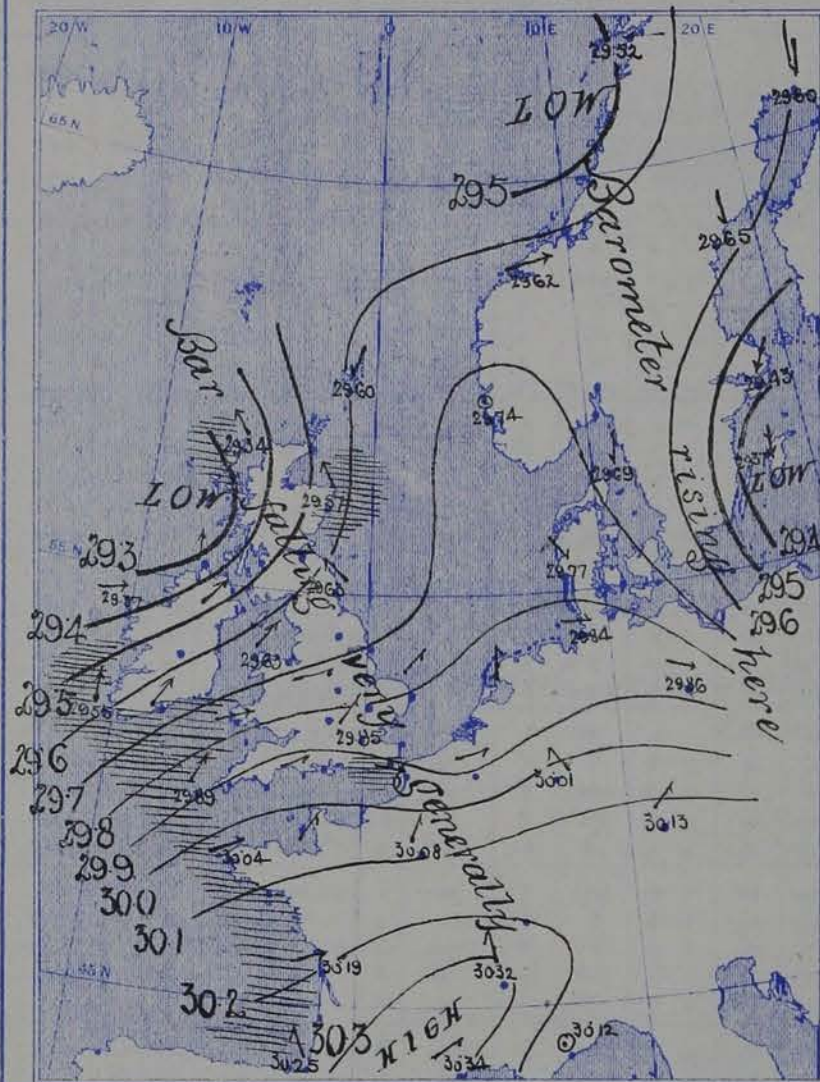
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ : High ≡

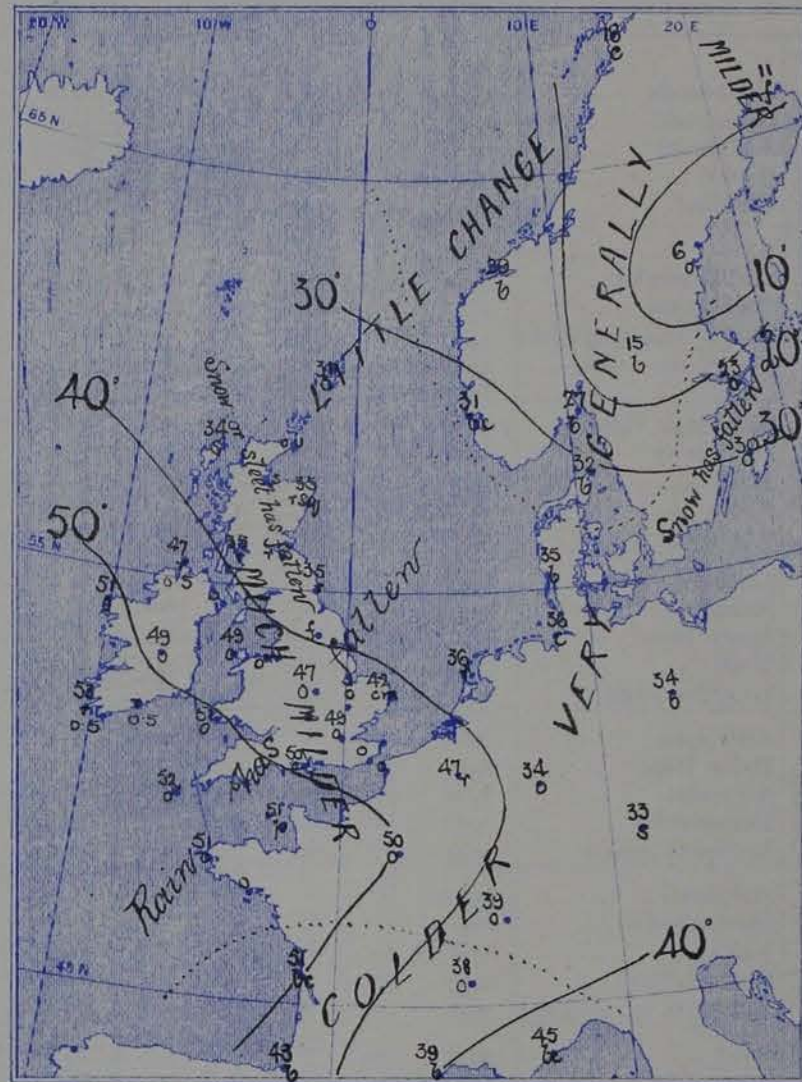


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 91	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Behmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.3 ins. and more to 30.0 ins. over France.  
Lowest 29.3 ins. and less off the W. of Scotland and N. of Ireland.  
Gradients rather steep over our NW<sup>m</sup> districts slight to moderate in the E. and S.  
Barometer falling generally - most in the NW. and W.

## TEMPERATURE

Highest 53° at Valencia (Ireland), 52° at Scilly, and exceeding 49° over our S<sup>m</sup> districts generally.  
Lowest (1) 11° at Haparanda, 15° at Karlstad, and below 32° over Scandinavia generally; (2) 31° at Sumburg Ht., 33° at Nain, and 35° at York.

## WIND

(1) SW<sup>m</sup> over Ireland and England generally, and blowing rather strongly at the W<sup>m</sup> stations, some of which have experienced a slight gale.  
(2) SE<sup>m</sup> in Scotland, and blowing strongly at Aberdeen.  
(3) Very variable on the Continent, but mainly from SW. in the N. of France.

## WEATHER

Dull gloomy and unsettled in most places; rainy in many parts of Ireland and England, snowy in Scotland; none of the amounts reported are large, the greatest being 0.5 in. at Malin Ht. The rainfall became very general over our Islands yesterday though not heavy. Bright Sunshine reported yesterday, slight in most places, but exceeded 4 hrs. at Aberdeen, York, Cambridge and Hastings.

## SEA

Continued rough in the extreme W. and N. moderate to slight at the E<sup>m</sup> and S<sup>m</sup> stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There appears to be still a probability of S<sup>m</sup> and SW<sup>m</sup> winds and these are likely to blow hard at times on our SW<sup>m</sup> W<sup>m</sup> and NW<sup>m</sup> coasts - where the South Cone is still flying.

# FORECASTS

For the 24 hours ending at NOON on 19<sup>TH</sup> JANUARY 1899.

## DISTRICTS.

## FORECASTS.

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

SE<sup>m</sup> to SW<sup>m</sup> winds, strong, rainy, mild.

SW<sup>m</sup> winds, mild, showery.

## DISTRICTS.

## FORECASTS.

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

S<sup>m</sup> and SW<sup>m</sup> winds, strong, squally, rainy.

## WARNINGS

At 3 pm yesterday to districts 5, 6, 7 and 8. Hoist South Cone. The Signals are still flying in districts 9 and 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.28	37	36	NNW	9	o	5	Valencia ...	29.72	48	47	S	2	rm	5
Sumburgh Head	29.33	32	29	NN	5	bc	6	Scilly ...	29.92	30	49	S	5	r	5
Stornoway ...	29.79	34	34	NN	4	s	4	Jersey ...	30.17	47	42	WSW	4	c	3
Aberdeen ...	29.78	34	29	W	4	bc	3	Hurst Castle ...	30.09	45	41	WSW	3	om	3
Shields ...	29.88	38	34	W	3	b	3	Dungeness ...	30.06	44	41	W	4	bc	3
Ardrossan ...	29.88	40	39	SW	1	ev	1	North Foreland							
Malin Head ...	29.82	38	37	SSW	3	c	2	London (Westminster)	30.05	43	39	SW	2	bc	#
Belmullet ...	29.77	40	39	ESE	3	o	#	Yarmouth ...	29.94	39	35	NNW	4	b	4
Holyhead ...	29.94	43	39	SW	2	om	1	Rochefort ...	30.24	55	51	NW	4	c	#

## 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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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on

Thursday, 19<sup>th</sup> January,

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.		
				At 32° and M.S.L.	Dry Bulb.		Direc.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Direc.	Force (0 to 12.)		Max.	Min.
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	29.78	-9	Z	0	f	29.88	+28	-11	-12	-22	Z	0	C	#	14	-17	-			
	Hernösand ...	29.82	-5	Z	0	b	29.88	+23	-12	-13	-18	Z	0	b	#	19	?	-			
	Stockholm ...	29.82	16	SW	2	0	29.87	+44	14	14	-9	Z	0	f	#	23	14	-			
	Wisby ...	29.78	27	SW	6	0	29.86	+49	25	24	-5	SE	4	0	#	30	23	-			
	Karlstad ...	29.87	7	Z	0	b	29.73	+08	15	14	0	E NE	2	0	#	#	#	-			
	Bodo ...	29.65	32	E	2	b	29.72	+20	15	13	-3	E	2	b	1	18	12	-			
	Christiansund ...	29.71	31	Z	0	b	29.32	-30	29	28	0	SSE	6	0	4	31	27	-			
	Skudesnaes ...	29.65	35	E	6	0	29.20	-54	37	35	+6	ESE	6	0	4	37	30	#			
	Færder (Christiania Fjord)	29.81	27	Z	0	C	29.55	-12	27	27	0	ESE	6	5	3	28	25	-			
	Skagen (The Scaw)	29.82	32	SE	3	0	29.40	-29	31	31	-1	SE	8	5	3	34	30	0.08			
BRITISH ISLANDS.	Fanö ...	29.71	34	S	4	S	29.47	-30	44	43	+9	SW	6	7	#	45	34	0.43			
	Sumburgh Head	29.23	35	SE	6	r	28.93	-67	43	42	+12	r	4	0	6	43	31	0.57			
	Stornoway ...	29.00	43	r	2	C	28.99	-35	37	36	+3	WSW	3	6	3	44	32	0.90			
	Wick ...	29.05	42	SSE	7	r	29.01	-49	40	39	+5	WSW	3	0	6	43	33	0.53			
	Nairn ...	29.07	39	Z	0	0	29.04	-45	39	38	+6	Z	0	C	2	43	31	0.14			
	Aberdeen ...	29.15	41	SSE	3	0	29.09	-48	40	39	+5	SW	1	0.97	3	45	35	0.31			
	Leith ...	29.19	50	r	3	0	29.12	-38	44	43	+10	r	3	7	#	53	33	0.63			
	Shields ...	29.37	51	SW	2	Cm	29.15	-48	50	49	+15	SSW	5	0.7	2	54	33	0.07			
	Spurn Head ...	29.52	49	SSW	6	bc	29.33	-34	50	49	+10	SSW	6	0.97	5	50	39	-			
	York ...	29.51	52	SW	3	0	29.32	-33	51	48	+16	WSW	1	0	#	52	35	0.01			
GERMANY & HOLLAND.	Loughborough ...	29.64	51	SW	6	C	29.44	-28	51	49	+4	SW	6	0.97	#	52	47	0.01			
	Ardrossan ...	29.18	49	SSW	5	rm	29.18	-25	46	46	+11	SSW	4	0.7	4	49	35	0.66			
	Malin Head ...	29.12	48	WSW	4	r	29.17	-12	42	41	-5	SSW	5	0.7	3	50	42	0.47			
	Belmullet ...	29.24	50	r	7	r	29.27	-10	45	43	-6	WSW	5	0	#	52	40	0.30			
	Donaghadee ...	29.26	52	SSW	6	0	29.27	-23	45	44	-2	WSW	5	C	3	53	44	0.29			
	Liverpool (Bidston)	29.52	52	SW	7	C	29.36	-29	48	47	0	WSW	6	r	5	54	47	0.06			
	Holyhead ...	29.48	50	SW	8	qmd	29.35	-28	49	48	0	WSW	5	Cm	4	51	48	0.58			
	Parsonstown ...	29.36	53	SW	1	r	29.38	-17	42	41	-7	SW	1	bc	#	55	42	0.33			
	Valencia ...	29.40	53	SW	6	rm	29.45	-10	44	41	-9	SW	6	Cm	6	54	43	0.36			
	Roche's Point ...	29.48	52	SW	8	r	29.48	-20	45	43	-5	r	4	bc	4	53	44	0.70			
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.64	51	SW	7	0	29.50	-28	51	50	0	r	7	0.97	6	51	50	0.18			
	Scilly ...	29.76	52	SW	6	om	29.61	-28	52	51	0	SW	6	om	5	55	48	0.08			
	Prawle Point ...	29.86	50	WSW	6	0	29.64	-28	51	50	+1	SW	7	0.97	6	52	48	0.02			
	Jersey (St. Aubin's)	29.98	53	SW	4	C	29.82	-21	52	50	+1	SSW	5	0.7	4	55	50	-			
	Hurst Castle ...	29.86	51	WSW	5	op	29.67	-25	51	50	+1	SW	6	om	4	52	50	0.02			
	Dungeness ...	29.84	50	WSW	5	op	29.69	-19	51	49	+2	SW	6	Cm	5	52	49	0.01			
	North Foreland																				
	London (Brixton) ...	29.81	51	SW	5	0	29.65	-20	51	49	+2	SW	6	0	#	53	48	0.01			
	Oxford ...	29.75	50	SW	5	0	29.56	-26	51	49	+2	SW	5	0.97	#	51	48	-			
	Cambridge ...	29.74	51	SW	4	A	29.54	-25	52	49	+5	SW	5	0	#	52	46	-			
PENIN- SULA.	Yarmouth ...	29.70	48	WSW	4	C	29.55	-19	50	48	+8	SSW	6	Cm	4	50	41	0.01			
	Cuxhaven ...	29.84	36	S	2	0	29.65	-19	45	44	+9	SW	6	0	#	46	34	0.24			
	Berlin ...	29.96	35	r	2	0	29.84	-02	43	42	+9	r	4	0	#	45	34	0.16			
	Wiesbaden ...	#	#	#	#	#	30.01	00	44	43	+10	SW	1	C	#	45	34	0.20			
	Munich ...	30.15	44	SW	6	0	30.15	+02	38	38	+5	SW	2	bc	#	45	32	0.04			
	The Helder ...	29.73	46	SW	4	r	29.63	-21	46	45	+10	SW	6	0	2	46	36	0.04			
	Brussels ...	#	#	#	#	#	29.89	+01	46	43	-1	SW	5	0	#	51	45	-			
	Cape Gris Nez ...	?	50	WSW	6	0	?	?	49	48	-1	SW	6	0	6	52	48	-			
	Paris ...	30.10	50	SSW	2	bc	30.00	-08	41	39	-9	S	3	bc	#	54	41	-			
	Brest ...	30.03	52	SW	5	r	29.84	-20	52	51	+1	SSW	5	0	5	54	48	0.04			
PENIN- SULA.	Lorient ...	30.06	52	r	5	C	29.90	-22	53	51	0	SW	6	0	5	57	50	0.04			
	Rochefort ...	30.16	50	SW	2	0	30.06	-13	43	43	-8	S	2	m	#	55	41	-			
	Belfort ...	30.18	43	WSW	5	r	30.12	-01	39	?	0	r	2	0	#	44	39	0.16			
	Lyons ...	30.26	46	N	1	0	30.21	-11	34	34	-4	SE	1	6	#	52	34	-			
	Nice ...	30.16	49	Z	0	0	30.24	+12	42	41	-3	E	4	6	2	54	41	-			
	Perpignan ...	30.23	46	Z	0	0	30.19	-15	38	37	-1	SW	2	0	#	51	34	-			
	Biarritz ...	30.12	54	E	3	0	30.04	-21	54	46	-11	SSE	4	6	2	57	43	-			
	Corunna ...																				
	Lisbon ...	30.23	52	WSW	3	0	30.25	-04	42	41	-1	WSW	3	6	#	57	41	-			
	Azores (P. Delgada)	29.97	55	WSW	3	0	30.01	+19	53	50	-6	SSE	1	6	3	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 *Thursday, 19<sup>th</sup> January, 1899.*

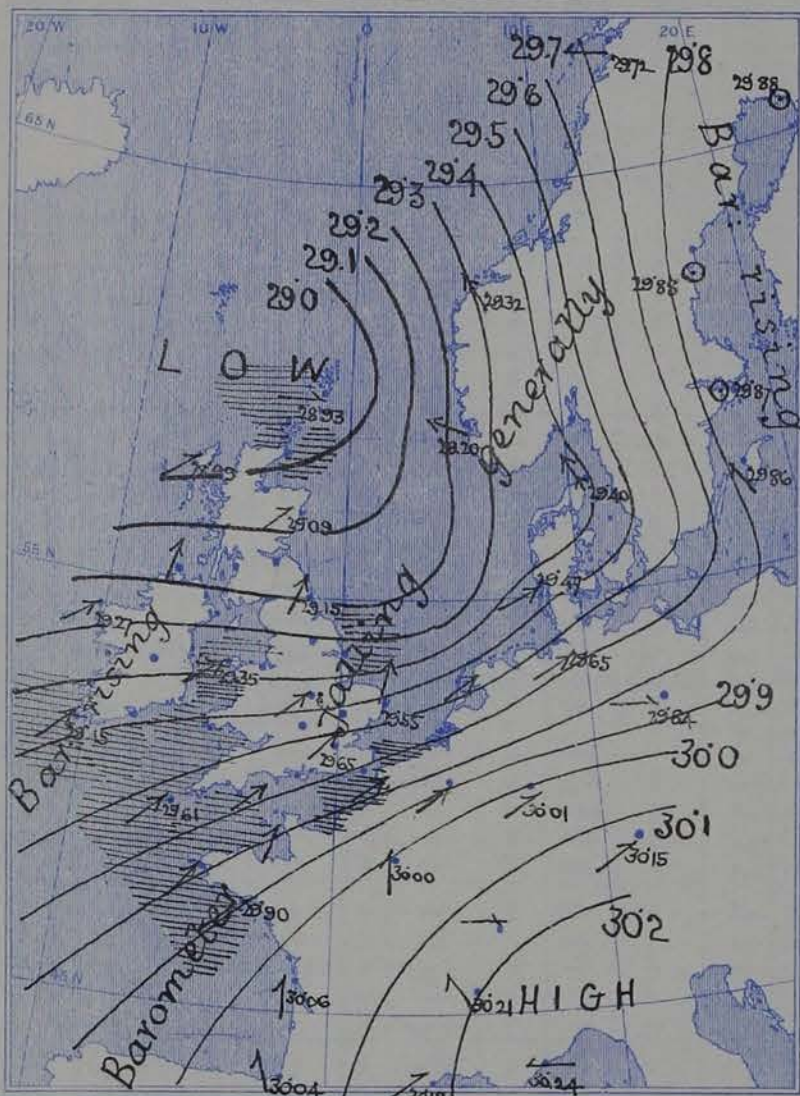
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough  $\equiv$  ; High  $\equiv$

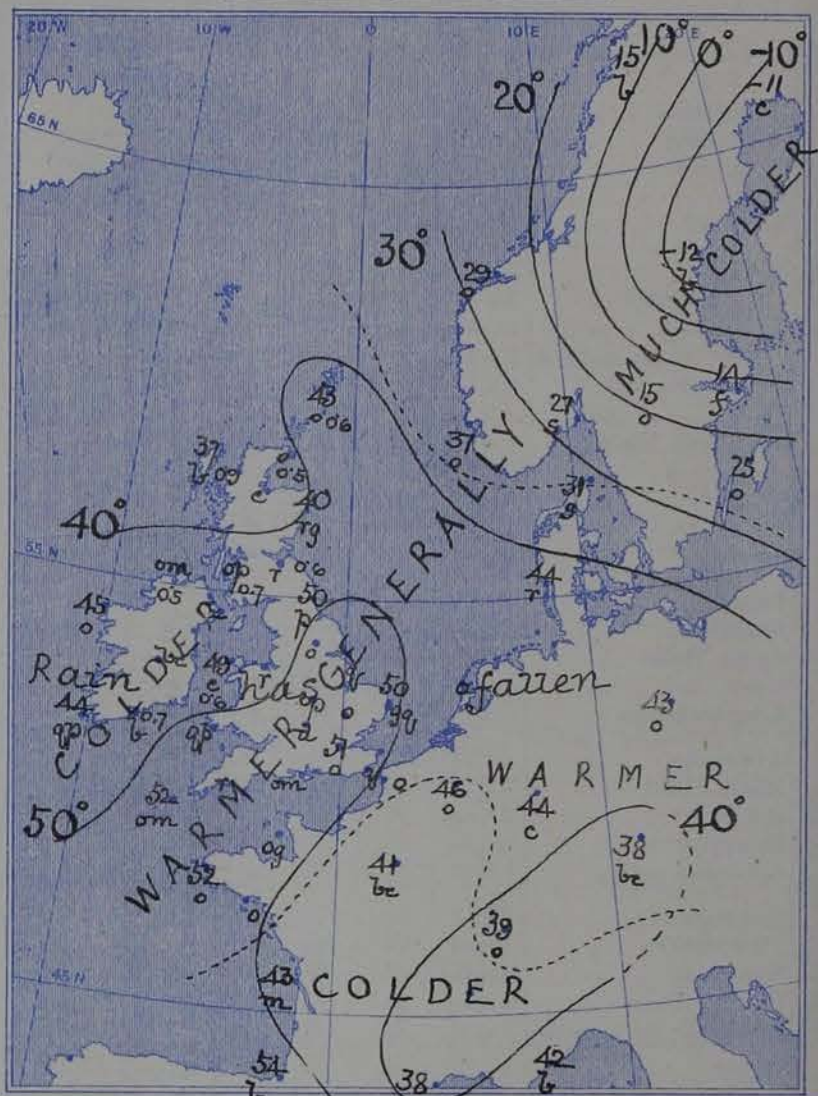


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1878	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 29.8 ins. over France.  
 Lowest, 29.0 ins. and less, in the Hebrides and Shetlands.  
 Gradients steep over England and the Channel, moderate in the north.  
 Barometer rising a little at our extreme western stations; in London it is not changing decidedly.

## TEMPERATURE

Highest, 50° to 53° at the English stations and in the northwest of France, but do not exceed 45° in the south of Ireland.  
 Lowest, (1) -12° F. at Hemsand, +21° at Saender, 29° at Christianund; (2) 37° at Stornoway, 39° at Naun, 42° at Runcorn.  
 It has been as high as 54° or 55° at some of our southwestern stations during yesterday, and reached 53° in London.

## WIND

SW<sup>3</sup>, strong and squally, over the Channel, Ireland, and England; moderate from SW. in Scotland, S and moderate over France.  
 It has blown a moderate gale from SW. over our southern counties during the night.

## WEATHER

Dull everywhere, squally, and showery on our western and southwestern coasts.  
 Rain has fallen generally - most in Ireland and Scotland, and some snow in the extreme north.  
 No Bright Sunshine was recorded yesterday at most of our stations.

## SEA

Still rough, especially in the north and west of our Islands and off Ushant.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no decided indication of any material change of weather this morning, beyond a decrease in the force of the wind at our southern stations.

# FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

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

SW<sup>2</sup> and S<sup>2</sup> winds, moderate to strong; showery.  
 SW<sup>2</sup> winds, strong; some showers.

## DISTRICTS.



## FORECASTS.

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

Same as Nos 3 to 5.

NONE ISSUED AT PRESENT.

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.75	35	33	SE	2	o	2	Valencia ...	29.44	53	51	S	6	og	6
Sumburgh Head	29.45	37	36	SE	4	o	5	Scilly ...	29.80	53	51	SW	6	om	5
Stornoway ...	29.04	43	43	SSW	3	r	3	Jersey ...	29.99	53	51	WSW	4	c	4
Aberdeen ...	29.30	40	39	SE	5	og	6	Hurst Castle ...	29.88	51	50	SW	5	om	3
Shields ...	29.45	41	41	SSW	2	om	2	Dungeness ...	29.87	50	49	WSW	4	o	3
Ardrossan ...	29.27	49	49	SSW	5	r	4	North Foreland							
Malin Head ...	29.19	50	49	SSW	4	r	2	London (Westminster)	29.82	54	50	SW	4	og	#
Belmullet ...	29.27	51	51	WSW	6	r	*	Yarmouth ...	29.73	49	47	WSW	3	og	4
Holyhead ...	29.55	51	50	SW	7	2gm	6	Rochefort ...	30.19	54	52	SW	3	c	#

## 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

Friday, 20<sup>th</sup> January,

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.				WIND.		Sea (0 to 5.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.	
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)				Max.	Min.			
Ins.		°				Ins.	Ins.	°	°	°							°	°	Ins.		
SCANDINAVIA.	Haparanda ...	29.91	-3	Z	0	0	29.81	-0.7	14	14	-8	NNE	2	0	#	0	#	-2	-15	-	
	Hernösand ...	29.67	9	NE	2	S	29.54	-3.4	14	12	+26	N	4	8	#	S	#	?	-15	0.04	
	Stockholm ...	29.42	30	H	8	S	29.21	-6.6	30	30	+16	W	6	0	#	S	#	30	9	0.35	
	Wisby ...	29.37	33	SSE	6	0	29.39	-1.7	38	37	+13	WNW	6	6	#	0	#	?	21	0.43	
	Karlstad ...	29.15	28	E	6	S	29.41	-3.2	18	18	+3	WSW	2	6c	#	S	#	#	#	0.55	
	Bodö ...	29.57	16	E	5	b	29.45	-2.7	16	13	+1	E	5	6	1	b	#	25	12	-	
	Christiansund ...	29.10	33	SE	1	0	29.15	-1.7	34	33	+5	Z	0	8	3	0	#	34	28	-	
	Skudesnaes ...	29.21	35	ENE	6	0	29.19	-0.1	44	42	+7	SW	6	0	5	0	#	44	34	#	
	Færder (Christiania Fjord)	29.13	27	WSW	7	S	29.39	-1.6	26	24	-1	NE	1	0	3	S	#	28	23	0.24	
	Skagen (The Scaw)	29.21	36	WNW	3	0	29.40	-0.0	38	38	+7	SE	2	0	0	0	#	41	30	0.24	
Fanö ...	29.49	43	SW	5	c	29.53	+0.6	42	41	-2	WSW	4	0	#	0	#	45	44	-		
BRITISH ISLANDS.	Sumburgh Head	29.96	44	W	3	c	29.02	+0.9	39	38	-4	W	1	0	5	bc.c	#	44	38	0.07	
	Stornoway ...	29.02	39	WSW	3	bc	29.21	+2.2	37	36	0	WNW	3	6c	3	p.bc	#	42	32	0.40	
	Wick ...	29.07	38	SW	1	bc	29.10	+0.9	37	36	-3	W	2	6c	2	bc	#	42	35	-	
	Nairn ...	29.09	40	W	2	c	29.16	+1.2	38	36	-1	W	1	6c	1	c	#	46	32	0.09	
	Aberdeen ...	29.18	38	S	2	bc	29.21	+1.2	40	38	0	W	3	6c	3	bc	#	44	36	0.02	
	Leith ...	29.24	44	W	3	b	29.30	+1.8	43	41	-1	WSW	4	6	#	b	#	48	39	0.01	
	Shields ...	29.36	45	SW	4	b	29.34	+1.9	45	43	-5	SW	4	6c	2	r.b	#	51	43	0.01	
	Spurn Head ...	29.50	45	SW	5	b	29.53	+2.0	44	43	-6	SW	4	0	4	c.h.p.b	#	51	42	-	
	York ...	29.46	46	W	1	b	29.52	+2.0	46	43	-5	SW	2	0	#	b	#	53	42	0.02	
	Loughborough ...	29.58	45	WSW	2	bc	29.63	+1.9	44	42	-7	WSW	3	cmu	#	p.bc.g	#	54	44	0.02	
GERMANY & HOLLAND.	Ardrossan ...	29.25	47	SSW	4	0	29.35	+1.7	46	44	0	SW	4	0	3	c.ol	#	47	44	0.04	
	Malin Head ...	29.13	44	SSW	6	cp	29.33	+1.6	41	39	-1	S	1	0 g	1	c.cp	#	46	41	0.08	
	Belmullet ...	29.19	46	WSW	8	c.g.p	29.35	+0.8	43	43	-2	WNW	2	0	#	bc.g.p	#	48	43	0.47	
	Donaghadee ...	29.31	46	WSW	6	bc	29.43	+1.6	44	43	-1	WSW	5	0	3	bc	#	47	42	-	
	Liverpool (Bidston)	29.50	45	SW	4	b	29.56	+2.0	45	44	-3	SW	3	0	3	bc.p	#	50	44	0.05	
	Holyhead ...	29.46	48	SW	5	c	29.52	+1.7	47	46	-2	WSW	6	gmr	4	bc.c	#	49	45	0.02	
	Parsonstown ...	29.24	45	SW	1	b	29.41	+0.3	44	43	+2	SE	1	0	#	bc.b	#	52	48	0.16	
	Valencia ...	29.47	49	SW	4	bc	29.31	-1.4	50	48	+6	S	5	0	6	bc.g.p	#	51	43	0.60	
	Roche's Point ...	29.52	48	WSW	5	b	29.41	-0.7	49	49	+4	SW	5	0	5	b.r	#	51	45	0.45	
	Pembroke (St. Ann's Hd.)	29.57	50	WSW	6	c	29.57	+0.7	50	49	-1	WSW	6	0 g	5	c	#	51	47	0.04	
FRANCE & BELGIUM.	Scilly ...	29.68	50	WSW	5	bc	29.62	+0.1	50	48	-2	SSW	5	0	5	c.bc	#	54	47	0.02	
	Prawle Point ...	29.73	49	SW	4	bc	29.76	+1.2	48	47	-3	SSW	4	0	3	y.p.c	#	51	46	0.10	
	Jersey (St. Aubin's)	29.79	52	SW	3	gr	29.87	+0.5	50	49	-2	S	4	6c	3	dp.cp	#	54	48	0.36	
	Hurst Castle ...	29.71	50	WSW	3	c	29.79	+1.2	50	48	-1	SW	4	0	3	od.c	#	52	48	0.06	
	Dungeness ...	29.69	51	SW	6	c.g	29.80	+1.1	49	48	-2	SW	5	0 g	4	c.g	#	52	46	0.14	
	North Foreland																				
	London (Brixton) ...	29.63	51	SW	3	c	29.77	+1.2	45	43	-6	WSW	3	6c	#	y.r.b	#	54	44	0.10	
	Oxford ...	29.67	45	SW	3	b	29.73	+1.7	44	42	-7	SSW	2	0	#	c.r.b	#	52	43	0.23	
	Cambridge ...	29.65	47	SW	3	b	29.73	+1.9	43	41	-9	SW	3	0	#	u.b	#	53	40	0.05	
	Yarmouth ...	29.58	52	SW	4	c	29.69	+1.4	44	42	-6	SW	4	0	4	c	#	57	40	0.03	
PENIN- SULA.	Cuxhaven ...	29.60	45	SW	7	0	29.67	+0.2	33	33	-12	SW	3	6	#	0	#	46	32	0.08	
	Berlin ...	29.80	47	W	2	0	29.77	-0.7	46	44	+3	SW	4	0	#	0	#	48	43	0.04	
	Wiesbaden ...	#	#	#	#	#	30.01	-0.0	45	43	+1	SW	2	0	#	#	#	48	39	-	
	Munich ...	30.03	46	SW	3	b	30.15	-0.0	43	41	+5	W	4	6	#	b	#	52	37	-	
	The Helder ...	29.61	46	SW	4	r	29.71	+0.8	46	44	0	SW	4	6	3	r	#	48	45	-	
	Brussels ...	#	#	#	#	#	29.92	+0.3	46	45	0	SW	3	6c	#	0	#	49	44	0.20	
	Cape Gris Nez ...	?	51	WSW	6	r	?	?	50	47	+1	W	5	0	6	r	#	52	45	0.20	
	Paris ...																				
	Brest ...																				
	Lorient ...	29.86	53	SW	6	r	29.92	+0.2	52	51	-1	SSW	5	0	5	r	#	57	50	0.12	
FRANCE & BELGIUM.	Rocheport ...	30.03	54	SW	3	bc	30.07	+0.1	50	48	+7	SSW	4	0	#	bc	#	57	39	-	
	Belfort ...																				
	Lyons ...	30.15	46	S	2	b	30.24	+0.3	43	41	+9	SSW	2	6c	#	b	#	55	34	-	
	Nice ...																				
	Perpignan ...																				
Biarritz ...	30.05	58	SSW	4	b	30.09	+0.5	54	47	0	S	2	0	4	b	#	63	50	-		
PENIN- SULA.	Corunna ...																				
	Lisbon ...	30.26	52	NNE	2	bc	30.30	+0.5	47	46	+5	NNE	2	6	#	bc	#	55	42	-	
	Azores (P. Delgada)	29.95	60	SW	5	0	29.86	-1.5	60	58	+7	SW	5	0	#	0	#	67	51	-	

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. 3.7 hrs;



# WEATHER CHARTS

FOR Friday, 20<sup>th</sup> January, 1899.

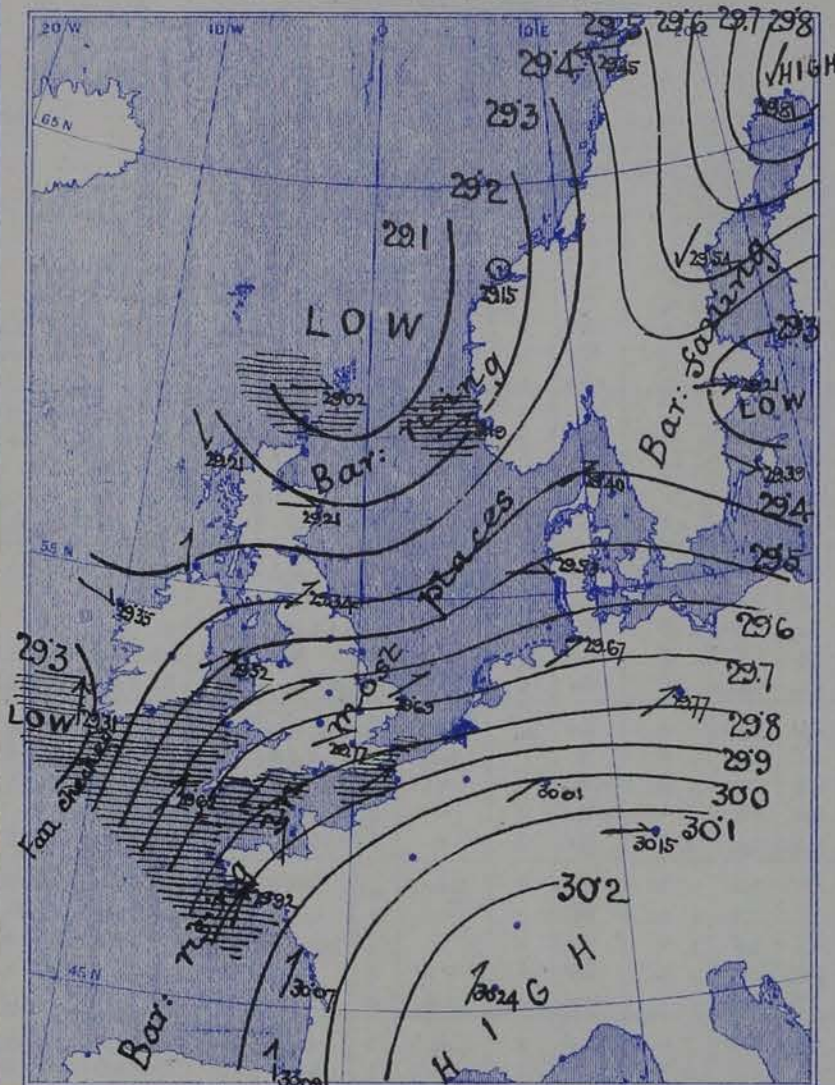
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

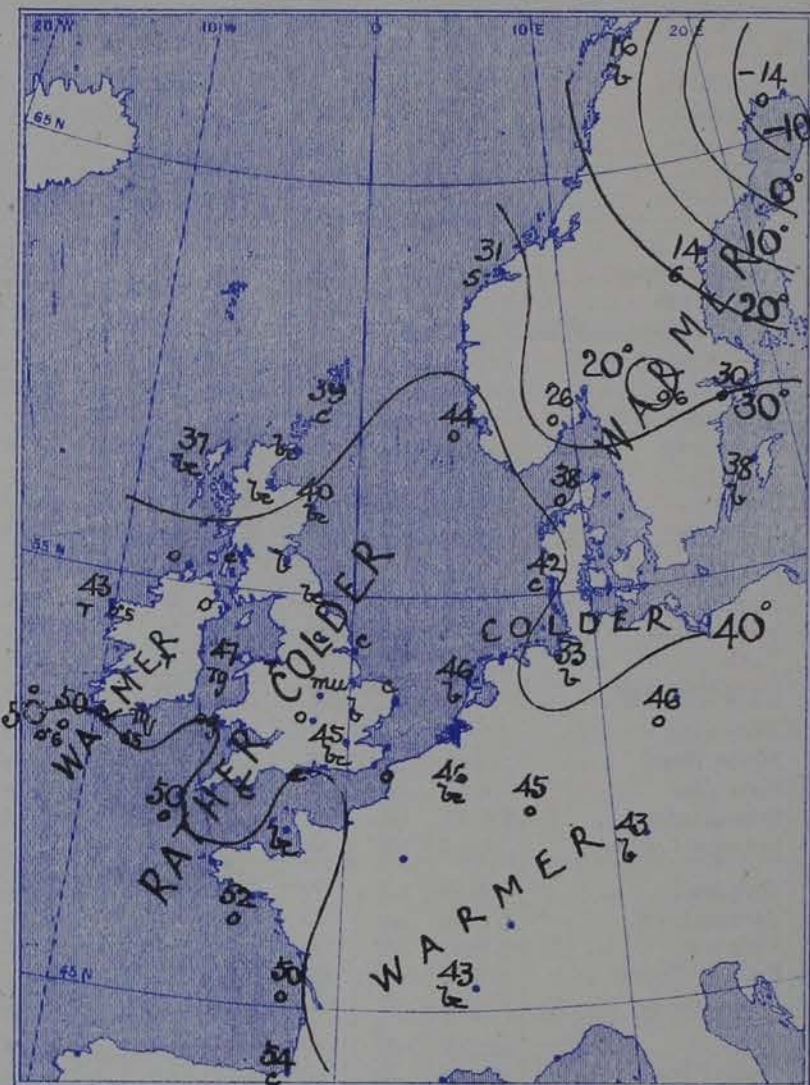


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours,	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.805	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 more to 29.9 ins: over France.  
Lowest, (1) 29.0 ins: over the Shetlands, and (2) below 29.3 ins: off the west of Ireland.  
Gradients moderate over Scotland and Norway, steep for 5<sup>th</sup> sounds over England and the Bay of Biscay.  
Barometer rising in Scotland, falling again at our western stations, but at Valencia the fall is checked.

## TEMPERATURE

Highest, 54° to 50° in the west of France, 50° to 49° in the extreme southwest and south of our Islands.  
Lowest, (1) -14° to +18° in the northern part of Scandinavia, 37° to 40° over the northern half of Scotland.  
It has rained over Ireland since yesterday, but fallen several degrees over England. The rain seems to be spreading eastwards and northwards.

## WIND

W<sup>ly</sup> to NW<sup>ly</sup>, and light at the Scotch stations, SW<sup>ly</sup> to S<sup>ly</sup> in England, the Channel and Ireland, and blows hard at Rock Point — in other places it is moderate.

## WEATHER

Fine, for a time only, in Scotland and the east of England, overcast at many of the western stations, rainy in places and unsettled generally.  
Rain has again fallen generally, but except in the west and south of Ireland the fall has been slight.  
There were 3 to 5 hours of Sunshine in Ireland yesterday.

## SEA

Rough again on our southwest coast, and remains rather rough in the far north, elsewhere it is moderate to smooth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression off the west of Ireland appears to be not deep, as is apparently spreading out a great deal. Rain is probable in most places.

# FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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



NW<sup>ly</sup> to SW<sup>ly</sup> and S<sup>ly</sup> winds; changeable, rainy, unsettled.  
SW<sup>ly</sup> and S<sup>ly</sup> winds, increasing in force; occasional rain, unsettled.

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

S<sup>ly</sup> and Variable winds, rain at times

NONE ISSUED AT PRESENT.

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes	29.11	37	35	E	6	r	4	Valencia	29.43	43	45	SW	6	bcgyp	6
Sumburgh Head	28.46	41	40	W	3	bc	6	Scilly	29.67	52	49	WSW	5	c	5
Stornoway	29.00	42	41	WNW	4	r	4	Jersey	29.79	53	52	SSW	5	0	4
Aberdeen	29.12	43	40	SW	3	bc	3	Hurst Castle	29.66	52	51	SW	4	oa	3
Shields	29.30	49	46	SW	3	bc	2	Dungeness	29.65	51	50	SW	7	cq	6
Ardrossan	29.25	46	45	SSW	4	c	3	North Foreland							
Malin Head	29.15	46	43	WSW	5	c	3	London (Westminster)	29.62	55	52	SW	4	oadp	#
Belmullet	29.24	48	46	WSW	6	bc	#	Yarmouth	29.55	57	56	SW	4	c	4
Holyhead	29.45	48	45	SW	5	bc	4	Rocheport	30.07	49	47	S	3	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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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 21<sup>st</sup> January,* 1899.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.								Temp.			
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	Weather.	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Haparanda ...	Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
	Hernösand ...	29.80	-12	NE	2	bc	29.77	-0.04	-10	-10	+ 4	NE	0	0	#	bc	#	16	-20	-
	Stockholm ...	29.67	7	NE	4	o	29.60	+0.06	10	10	- 4	NE	4	5	#	o	#	23	7	0.08
	Wisby ...	29.60	25	NE	2	o	29.53	+0.32	35	35	+ 5	W	2	2	#	o	#	35	23	0.04
	Karlstad ...	29.61	33	SSE	4	o	29.64	+0.25	37	36	- 1	SSW	4	6	#	o	#	38	28	-
		29.49	27	NE	1	S	29.47	+0.06	34	34	+ 16	SSW	2	2	#	S	#	#	#	0.08
	Bodö ...	29.47	16	E	4	c	29.52	+0.07	15	13	- 1	E	4	0	2	c	#	18	12	-
	Christiansund ...	29.41	33	NE	4	c	29.47	+0.32	27	25	- 7	ENE	4	6	#	c	#	34	25	0.04
	Skudesnaes ...	29.35	43	S	6	o	29.28	+0.09	41	40	- 3	S	4	0	4	o	#	45	41	#
	Færder (Christiania Fjord)	29.43	28	NE	2	m	29.42	+0.03	32	32	+ 6	NE	2	3	3	m	#	?	26	-
	Skagen (The Scaw)	29.47	41	W	2	o	29.42	+0.02	40	40	+ 2	SSE	3	3	0	m	#	41	37	0.24
	Fanö ...	29.62	42	WSW	4	b	29.45	-0.08	44	43	+ 2	SW	3	3	#	b	#	44	41	0.04
	Sumburgh Head	29.26	37	NE	5	o	29.19	+0.17	38	33	- 1	ENE	6	0	7	c.o	#	44	36	0.05
	Stornoway ...	29.31	37	NE	3	r	28.99	-0.22	38	37	+ 1	E	7	7	7	bc,r	2.9	42	33	0.60
	Wick ...	29.32	40	E	2	bc	29.05	-0.05	40	39	+ 3	ENE	7	7	5	bc	#	43	33	0.20
	Nairn ...	29.33	36	Z	0	b	29.01	-0.15	36	36	- 2	E	3	2	2	b,rs	#	43	32	0.48
BRITISH ISLANDS.	Aberdeen ...	29.35	39	W	1	o,qm	28.99	-0.22	43	43	+ 3	ENE	5	9,q,r	5	bc,qm	4.9	45	35	0.38
	Leith ...	29.33	44	Z	0	r	28.93	-0.37	49	49	+ 6	WSW	2	7m	#	r	#	49	42	0.55
	Shields ...	29.37	46	SW	3	o	29.05	-0.29	53	51	+ 8	SSW	4	c	2	o,r	#	53	43	0.08
	Spurn Head ...	29.47	47	SSW	4	c	29.24	-0.29	53	51	+ 9	SSW	6	o,q	5	o,r	#	53	43	0.18
	York ...	29.31	46	S	2	b	29.17	-0.35	54	52	+ 8	S	2	7	#	r,b,r	0.0	54	45	0.24
	Loughborough ...	29.50	51	SSW	5	o	29.29	-0.34	55	52	+ 11	SSW	6	o,q,p	#	ep,o,q,p	#	55	44	0.20
	Ardrossan ...	29.27	43	S	2	opm	28.94	-0.41	48	47	+ 2	S	4	om	3	opm	#	48	42	0.35
	Malin Head ...	29.19	43	SSE	1	opm	28.88	-0.45	46	45	+ 5	SSW	4	o,qm	3	opm	#	48	41	0.13
	Belmullet ...	29.16	48	SSW	4	op,q	28.91	-0.44	48	46	+ 5	S	4	bc	#	c,q,p	#	50	43	0.40
	Donaghadee ...	29.27	46	SSW	4	c	29.00	-0.43	48	48	+ 4	WSW	5	7	3	c	#	49	43	0.34
	Liverpool (Bidston)	29.41	49	SSW	3	o	29.14	-0.42	53	51	+ 8	S	3	0	3	or	#	55	43	0.50
	Holyhead ...	29.34	49	SW	7	o,qm	29.10	-0.42	50	50	+ 3	SSW	5	am	4	df,qm	#	51	46	0.93
	Parsonstown ...	29.21	49	SE	1	r	29.02	-0.39	46	45	+ 2	E	1	c	#	or	0.8	53	42	0.43
	Valencia ...	29.06	51	SSE	5	7m	28.96	-0.35	51	50	+ 1	S	5	om	5	o,7m	0.1	54	49	0.55
	Roche's Point ...	29.19	51	SW	6	r	29.08	-0.33	50	50	+ 1	SW	6	7	5	7,q	#	52	46	1.35
	Pembroke (St. Ann's Hd.)	29.27	51	SW	7	r	29.20	-0.37	51	50	+ 1	SW	7	7	6	r	0.0	53	49	1.29
GERMANY & HOLLAND.	Scilly ...	29.45	50	SSW	7	r	29.26	-0.36	51	50	+ 1	SSW	7	7,q	5	r,7,q	0.0	54	48	0.77
	Prawle Point ...	29.60	51	SSW	6	r	29.37	-0.39	52	50	+ 4	SSW	7	o,q	6	o,7,q	#	52	42	0.76
	Jersey (St. Aubin's)	29.80	52	SW	5	o,q	29.64	-0.23	54	52	+ 4	SSW	6	cm	4	o,r	#	55	49	0.04
	Hurst Castle ...	29.66	52	SSW	6	7m	29.50	-0.29	53	52	+ 3	SSW	8	7,q	5	7m	#	54	50	0.24
	Dungeness ...	29.72	51	SW	6	7,q	29.61	-0.19	52	51	+ 3	SW	7	c,q	6	c,7,q	#	53	48	0.16
	North Foreland																			
	London (Brixton) ...	29.66	51	SW	3	op,q	29.52	-0.25	53	51	+ 8	SW	7	o,q,p	#	op,q,r	0.1	55	45	0.17
	Oxford ...	29.55	51	SSW	3	r	29.40	-0.33	53	51	+ 9	SSW	7	o,q	#	c,r	#	54	44	0.49
	Cambridge ...	29.59	51	SW	5	o	29.42	-0.31	54	52	+ 11	SSW	6	a	#	o,q	0.1	55	42	0.06
	Yarmouth ...	29.61	48	SSW	4	c	29.45	-0.24	53	51	+ 9	SSW	6	o,q	5	c	#	53	42	0.09
	Cuxhaven ...	29.76	45	SW	5	o	29.57	-0.10	48	47	+ 15	SSW	7	7	#	o	#	48	33	0.24
	Berlin ...	29.92	46	SW	2	o	29.84	+0.07	46	46	0	SW	3	0	#	o	#	50	46	0.08
	Wiesbaden ...	#	#	#	#	#	30.02	+0.01	47	44	+ 2	SW	2	0	#	#	#	48	45	0.04
	Munich ...	30.18	43	SW	1	b	30.17	+0.02	35	33	- 8	SW	3	0	#	#	#	52	34	-
	The Helder ...	29.69	46	SW	3	o	29.52	-0.19	49	47	+ 3	SW	6	7	3	o	#	49	45	0.28
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	29.77	-0.15	52	47	+ 6	SW	6	0	#	r	#	53	45	0.04
	Cape Gris Nez ...	?	50	SW	6	r	?	?	52	50	+ 2	SW	6	0	6	r	#	52	46	0.16
	Paris ...	30.02	32	SSW	5	bc	29.92		48	44		S	4	bc	#	bc	#	53	48	-
	Brest ...																			
	Lorient ...	29.84	54	SW	7	o	29.65	-0.27	57	53	+ 5	SW	7	c	7	o	#	57	50	0.04
	Rochefort ...	30.09	52	SSE	3	bc	29.96	-0.11	46	45	- 4	SSE	3	b	#	o,bc	#	55	43	-
	Belfort ...	30.16	46	W	1	b	30.11		41	38		W	2	b	#	b	#	52	39	-
	Lyons ...	30.22	47	SSE	2	b	30.15	-0.09	49	45	+ 6	S	4	b	#	b	#	54	42	-
	Nice ...	30.32	49	NE	1	c	30.35		47	41		NE	3	0	2	c	#	54	46	-
	Perpignan ...	30.26	44	SW	1	b	30.20		37	37		W	2	bc	#	b	#	54	35	-
	Biarritz ...	30.08	57	S	3	b	29.97	-0.12	55	48	+ 1	SW	5	b	3	b	#	61	52	-
PENIN- SULA.	Corunna ...																			
	Lisbon ...	30.25	55	S	4	o	30.19	-0.11	56	51	+ 9	S	4	0	#	o	#	59	47	-
	Azores (P. Delgada)																			

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport...0.0 hrs;



# WEATHER CHARTS

FOR *Saturday, 21<sup>st</sup> January, 1899.*

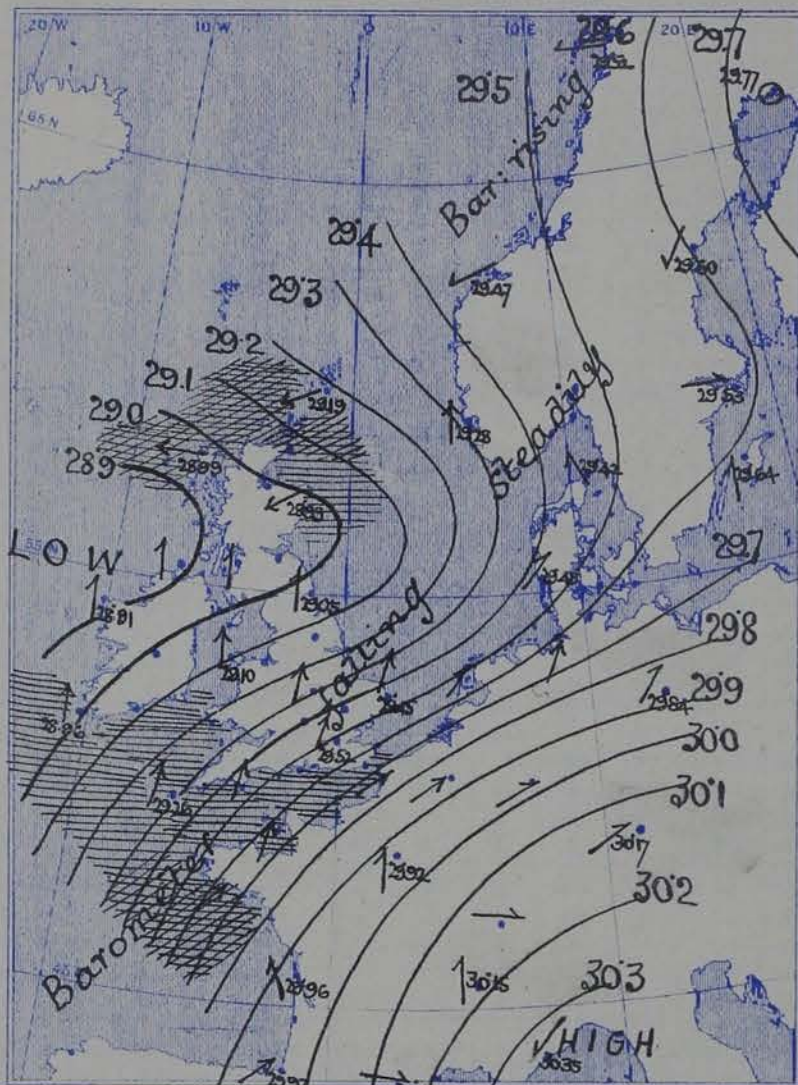
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

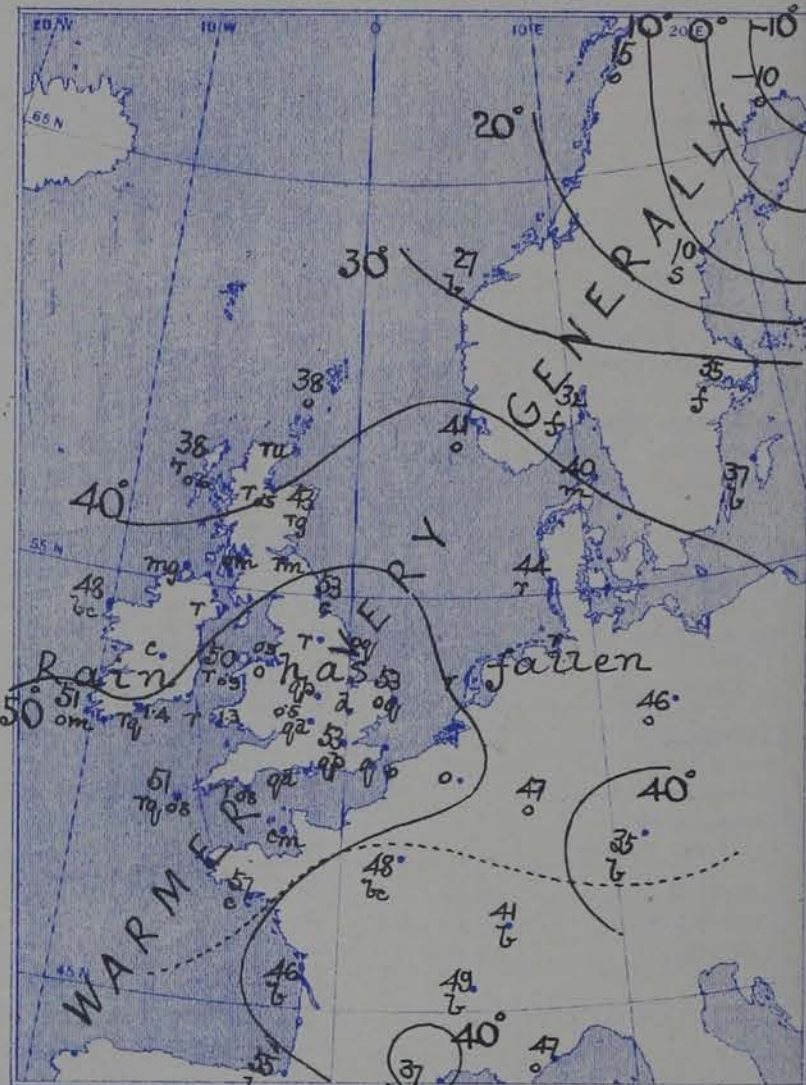


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
Sumburgh Head	(Inches.) 29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	(Inches.) 3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.35 in. at Nîmes, and exceeding 30.0 in. over all the southern half of France generally.  
 Lowest, below 28.9 in. in a depression off the west of Ireland, and below 29.0 in. in a secondary lying over the central part of that country.  
 Gradients steep, especially over England, the Channel and France.  
 Barometer falling generally, but the fall is checked at Valencia.

## TEMPERATURE

Highest, 50° to 55° over England and the south of Ireland, the English Channel and Brittany; at present it is 57°.  
 Lowest, -10° F. at Haparanda, +10° at Helsingfors, 36° at Nain, 38° at Tromsø and Lumburghead.

## WIND

(1) S to SW over Ireland, England, and the north of France, and strong to a gale at most of the English stations.  
 (2) E, strong to a gale in the north of Scotland.  
 It blew a gale from S. or S.W. over many parts of England in the night.

## WEATHER

Cloudy, squally and rainy over our Islands, Belgium and Holland; and rather rough in the west of Norway, fine over the southeast of France.  
 Rain has fallen generally, and in Ireland and Wales the amounts reported are large. Bright Sunshine yesterday amounted to nearly 5 hrs: at Aberdeen and 3 hrs at Tromsø, at our other stations there was very little or none.

## SEA

High in the north of Scotland, rough on our coasts generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any settled weather over our Islands at present, though temporary spells of bright weather are probable.

# FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> JAN., 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Wind shifting to the S <sup>nd</sup> strong to a gale; squally, rainy.	6 SCOTLAND WEST	S <sup>2d</sup> and SW <sup>2d</sup> winds, strong to a gale; squally, rainy, some bright intervals.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SW <sup>2d</sup> winds, strong; squally, showery.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES	SW <sup>2d</sup> gales and strong winds; squally, showery, mild.	10 IRELAND SOUTH	At 7-15 pm yesterday to all coasts excepting districts 1+2 Hoist South Cone
5 ENGLAND SOUTH			

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes	29.25	42	41	S	6	o	5	Valencia	29.27	52	50	S	3	o	5
Sumburgh Head	29.13	41	40	nHE	2	c	5	Scilly	29.54	52	52	S	6	r	5
Stornoway	29.31	42	41	nW	1	bc	1	Jersey	29.81	54	52	nW	5	o	4
Aberdeen	29.31	44	39	n	3	bc	3	Hurst Castle	29.71	51	50	SW	6	r	4
Shields	29.43	47	44	SW	3	o	2	Dungeness	29.73	50	49	SW	5	c	5
Ardrossan	29.31	45	45	S	3	r	3	North Foreland							
Malin Head	29.25	42	41	S	1	o	1	London (Westminster)	29.69	52	49	SW	4	oap	#
Belmullet	29.20	49	48	SSW	5	c	#	Yarmouth	29.67	48	46	SSW	4	c	#
Holyhead	29.35	47	47	S	6	af	4	Rocheport	30.09	51	49	S	3	o	#

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

*Continental Information not received*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on Sunday 22<sup>nd</sup> January, 1899.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.					
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.				Force (0 to 12.)	Max.	Min.	Rainfall.		
		Ins.	°				Ins.	Ins.	°	°	°					°	°	Ins.			
SCANDINAVIA.	Haparanda ...	29.65	-18	N	2	bc	29.28	-4.9	-11	-11	+9	NNE	2	0	#	bc	#	-2	-19	0.08	
	Hernösand ...	29.51	8	NE	2	o	29.10	-5.0	8	8	-2	NNW	6	5	#	o	#	14	3	-	
	Stockholm ...	29.27	37	NE	2	r	?	?	43	40	+8	SW	8	0	#	r	#	43	25	0.20	
	Wisby ...	29.36	42	S	6	r	29.34	-3.0	44	42	+7	W	8	bc	#	r	#	44	30	0.16	
	Karlstad ...	29.10	36	Z	0	r	29.16	-3.1	39	37	+5	SW	2	0	#	r	#	#	#	0.35	
	Bodo ...	29.47	16	E	4	b	29.30	-1.2	16	13	+1	E	5	b	#	b	#	16	12	-	
	Christiansund ...	29.08	28	ENE	4	o	29.17	-3.0	27	27	0	N	3	0	#	o	#	18	25	-	
	Skudesnaes ...	28.80	46	WSW	8	o	29.15	-1.3	38	34	-3	N	2	m	#	o	#	46	37	#	
	Færder (Christiania Fjord)	29.04	31	NNW	4	m	29.15	-2.7	35	33	+3	NNE	2	0	#	m	#	35	28	0.16	
	Skagen (The Scaw)	29.13	47	SSW	6	m	29.22	-2.0	45	45	+5	SW	5	c	#	m	#	48	39	0.28	
BRITISH ISLANDS.	Fanö ...	29.37	47	SW	8	o	29.38	-0.7	45	44	1	SW	6	c	#	o	#	48	43	0.20	
	Sumburgh Head	28.98	37	ENE	6	o	29.18	-0.1	36	35	-2	NE	4	0	#	o	#	39	33	0.03	
	Stornoway ...	28.94	38	ENE	5	r	29.13	+1.4	38	37	0	E	6	r	#	r	#	39	34	2.75	
	Wick ...	28.99	42	NE	4	o	29.11	+0.6	40	39	0	ENE	6	0	#	o	#	44	33	0.20	
	Nairn ...	29.01	38	W	1	o	29.04	+0.3	36	36	0	NE	3	r	#	o, r	#	40	34	0.58	
	Aberdeen ...	29.02	38	W	2	bc	29.01	+0.2	41	40	-2	NE	9	orgg	#	c, bc	#	44	37	0.42	
	Leith ...	29.00	47	SW	2	bc	28.95	+0.2	44	43	-5	ESE	1	r	#	bc	#	50	42	0.39	
	Shields ...	29.09	47	SW	1	o	29.03	-0.2	46	45	-7	SSW	3	c	#	p, b	#	54	45	0.05	
	Spurn Head ...	29.23	49	SSW	5	r	29.19	-0.5	48	46	-5	SW	5	b	#	org, b	#	54	44	0.13	
	York ...	29.18	49	S	2	op	29.13	-0.4	48	44	-6	SSW	3	b	#	ap	#	54	47	0.25	
GERMANY & HOLLAND.	Loughborough ...	29.27	48	SW	3	o	29.24	-0.5	47	45	-8	SW	5	org	#	ap, r, c	#	57	47	0.57	
	Ardrossan ...	28.97	47	S	4	cm	28.94	0.0	46	46	-2	S	3	op	#	cm, cm	#	49	44	0.16	
	Malin Head ...	28.83	48	S	5	cmg	28.88	0.0	43	41	-3	S	1	op	#	o, cmg	#	49	42	0.11	
	Belmullet ...	28.81	47	S	3	om	28.97	+0.6	45	44	-3	WSW	5	o	#	om	#	49	44	0.60	
	Donaghadee ...	28.97	47	SSW	5	c	28.94	-0.6	44	43	-4	SW	5	c	#	c	#	51	43	0.16	
	Liverpool (Bidston)	29.13	49	SSE	3	o	29.11	-0.3	47	44	-6	SSW	3	c	#	o	#	54	46	0.27	
	Holyhead ...	29.04	49	S	6	org	29.03	-0.7	47	46	-3	WSW	6	o	#	r, f, org	#	51	46	0.42	
	Parsonstown ...	28.85	49	SE	1	r	28.99	-0.3	45	44	-1	SW	1	or	#	b, or	#	52	44	0.09	
	Valencia ...	28.77	49	S	4	p	29.23	+2.7	47	44	-4	W	8	org	#	org, p	#	53	45	0.64	
	Roche's Point ...	28.85	50	SSW	7	org	29.17	+0.9	46	44	-4	W	5	bc	#	org	#	52	44	0.22	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.00	52	SW	8	c	29.13	-0.7	49	48	-2	WSW	8	org	#	c	#	52	48	0.36	
	Scilly ...	29.11	53	SSW	7	c	29.37	+1.1	49	47	-2	WSW	8	org	#	org, org	#	55	46	0.33	
	Prawle Point ...	29.27	51	SSW	7	org	29.39	+0.2	50	47	-2	SSW	7	cp	#	omr, org	#	53	46	0.20	
	Jersey (St. Aubin's)	29.53	54	S	7	org	29.58	-0.6	51	48	-3	SW	6	bc	#	or, org	#	56	50	0.01	
	Hurst Castle ...	29.41	54	SSW	7	org	29.43	-0.7	51	48	-2	SW	6	cp	#	org, org	#	56	48	0.05	
	Dungeness ...	29.51	52	SSW	8	o	29.48	-1.3	51	50	-1	SW	7	bc	#	o	#	54	51	-	
	North Foreland														#		#				
	London (Brixton) ...	29.43	52	SW	7	cp	29.43	-0.9	51	47	-2	SW	6	cp	#	c, p, org	#	55	50	0.04	
	Oxford ...	29.30	52	S	7	r	29.34	-0.6	48	43	-5	SSW	8	b	#	r	#	54	48	0.13	
	Cambridge ...	29.37	52	SSW	7	2	29.34	-0.8	49	45	-5	SW	6	b	#	2	#	56	48	0.02	
PENIN-SULA.	Yarmouth ...	29.38	54	SSW	6	c	29.35	-1.0	50	47	-3	SSW	4	c	#	c	#	56	49	-	
	Cuxhaven ...	29.54	51	SW	6	o	29.53	-0.4	48	45	0	SW	6	op	#	op	#	50	46	0.28	
	Berlin ...	29.80	49	SW	5	c	29.78	-0.6	43	41	-3	WSW	3	b	#	c	#	50	41	0.08	
	Wiesbaden ...	#	#	#	#	#								#	#	#	#	#	#		
	Munich ...	30.04	36	SW	2	b	30.06	-1.1	31	31	-4	E	1	b	#	b	#	52	30	-	
	The Helder ...	29.48	50	SW	6	o	29.43	-0.9	48	46	-1	SW	6	c	#	o	#	50	48	-	
	Brussels ...	#	#	#	#	#	29.66	-1.1	48	45	-4	SSW	5	o	#	o	#	55	46	0.04	
	Cape Gris Nez ...	?	49	SW	6	o	?	?	51	48	-1	SW	6	o	#	o	#	54	46	-	
	Paris ...	29.83	51	SSW	4	bc	29.77	-1.5	50	45	+2	SSW	5	o	#	bc	#	57	48	-	
	Brest ...	29.41	54	SSW	7	r	29.60	52	50		W	6	c	#	r	#	54	46	0.16		
FRANCE & BELGIUM.	Lorient ...	29.58	54	SSW	7	o	29.67	+0.2	55	54	-2	W	6	r	#	o	#	57	50	0.04	
	Rochefort ...	29.88	55	SSW	5	c	29.88	-0.8	50	49	+4	SSW	3	o	#	c	#	55	41	0.28	
	Belfort ...	29.98	47	W	3	b	29.98	-1.3	42	37	+1	WSW	1	c	#	b	#	55	39	-	
	Lyons ...	30.06	50	S	5	b	30.02	-1.3	49	44	0	S	5	c	#	b	#	55	49	-	
	Nice ...	30.34	48	Z	0	c	30.28	-0.7	41	39	-6	NE	3	b	#	c	#	54	39	-	
	Perpignan ...	30.12	44	SE	1	b	30.04	-1.6	34	34	-3	WNW	1	bc	#	b	#	55	32	-	
	Biarritz ...	29.91	60	SSW	5	o	29.85	-1.2	58	48	+3	S	5	o	#	o	#	63	55	-	
	Corunna ...														#		#				
	Lisbon ...	30.06	57	S	5	r	30.08	-1.1	52	50	-4	W	3	c	#	r	#	59	52	0.63	
	Azores (P. Delgada)	30.17	54	NNW	3	b	30.21	+2.9	55	50	-2	S	3	o	#		#	63	50	-	

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, 22<sup>nd</sup> January, 1899.

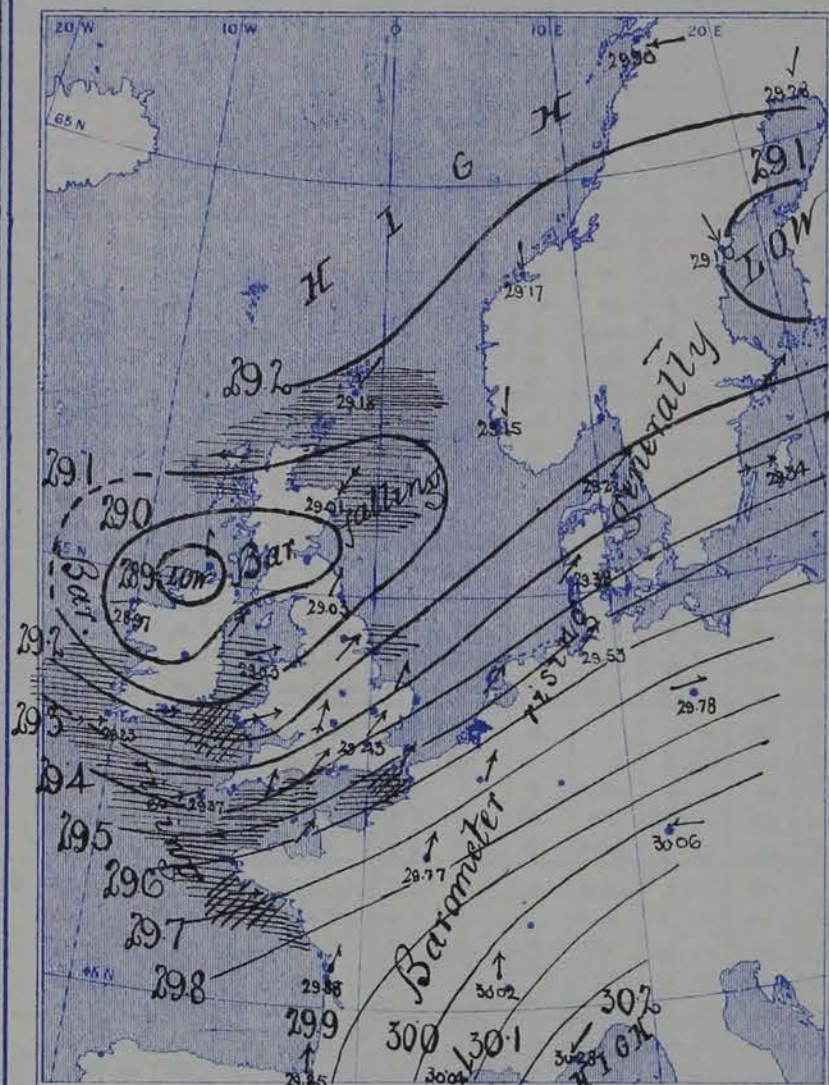
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

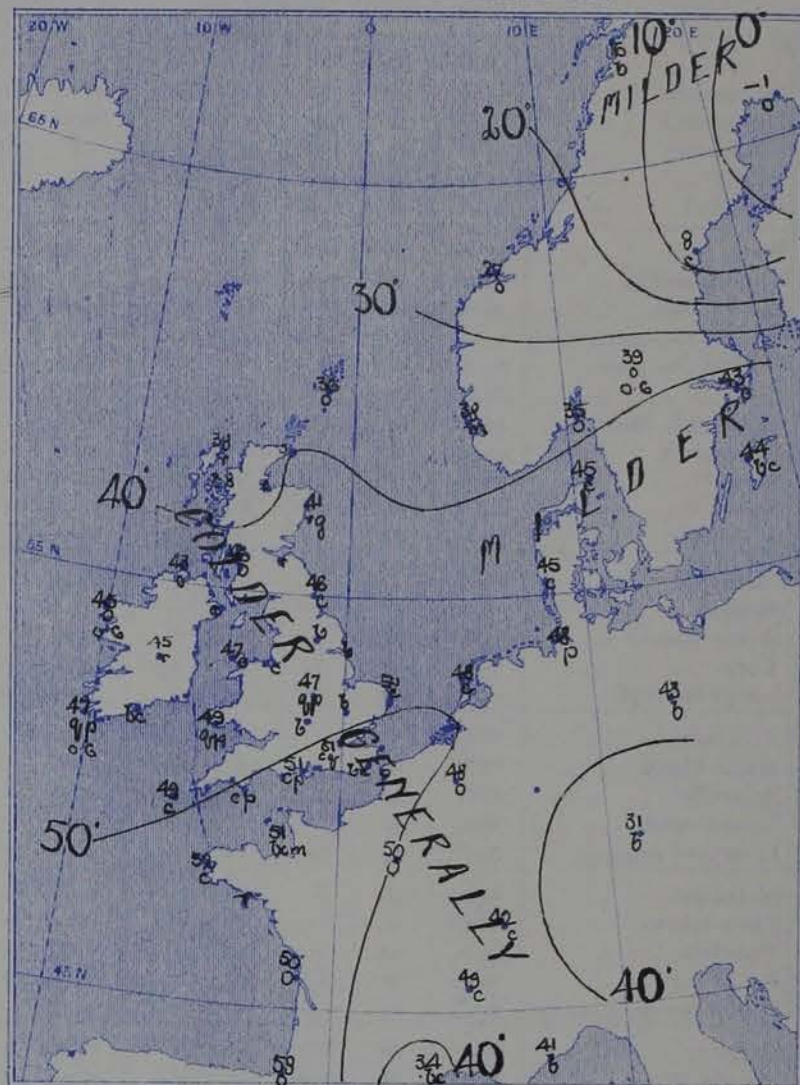


## TEMPERATURE & WEATHER.

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 JANUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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) 30.2 in: and more to 29.9 in: over the southern parts of France, Switzerland, and the north of Italy; (2) 29.30 in: at Bodo.  
 Lowest (1) 28.9 in: and less, in a well marked depression over the north of Ireland, and 29.1 in: and less near Stockholm.  
 Gradients rather steep for SW winds over the south of our Islands and the north of France, and for E winds in the north of Scotland.  
 Barometer rising at our northern, western and southern stations falling in the East.

## TEMPERATURE

Highest, 50° to 55° in the west of France and south of our Islands, 47° at Valenciennes (Ireland).  
 Lowest, (1) 11° at Haparanda, +8° at Helsingfors, 16° at Bodo, 27° at Christianmünd, 38° at Skudenes; (2) 36° at Narvik, 38° at Hornsund, +4° at Aberdeen.  
 The maxima recorded yesterday were as high as 54° to 56° at several of our southern stations.

## WIND

- (1) SW to W strong to a gale, over the southern parts of our Islands and the English Channel.
  - (2) NE, strong to a gale, in the north of Scotland.
  - (3) Lighter breezes both in the south of France and the north of Scandinavia.
- SW gales have been experienced over the greater part of Ireland, England, and the north of France, E gales in the north of Scotland.

## WEATHER

Squally over our Islands generally, with rain at times especially in the north and west; fine in the south and east of France.  
 Unusually heavy rain is reported at Hornsund, and rather large quantities from our western and northern stations; smaller quantities have occurred elsewhere.  
 Bright Sunshine Nil at nearly all our stations, but 0.7 hr at Aberdeen, and 3.2 hr at Larnach.

## SEA

Still very rough at our northern, western, and southern stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> Jan<sup>y</sup>, 1899.

### DISTRICTS.

### FORECASTS.

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

NONE ISSUED.

### DISTRICTS.

### FORECASTS.

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

NONE ISSUED.

### WARNINGS

The SOUTH CONE is still flying except in districts 1 and 2.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.08	44	40	ENE	4	r	3	Valencia ...	28.86	52	50	S	5	otp	6
Sumburgh Head ...	28.99	38	36	ENE	6	o	7	Scilly ...	29.21	52	51	SSW	7	rq	6
Stornoway ...	28.92	39	38	E	4	r	4	Jersey ...	29.62	56	52	SSW	7	o	5
Aberdeen ...	28.91	42	41	SW	3	c	4	Hurst Castle ...	29.45	64	52	SSW	8	rqm	4
Shields ...	29.07	50	48	SW	2	op	2	Dungeness ...	29.52	53	50	SSW	8	o	7
Ardrossan ...	28.97	49	49	SSW	4	bcm	3	North Foreland							
Malin Head ...	28.86	48	46	S	5	o	3	London (Westminster)	29.43	50	51	SW	6	cq	#
Belmullet ...	28.87	47	46	SSW	3	o	*	Yarmouth ...	29.37	55	51	SSW	6	cq	5
Holyhead ...	29.09	49	48	SW	4	e	3	Rochefort ...	29.95	52	48	SW	4	o	#

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

*The Continental Information arrived late, will appear on Tuesday's report.*

### 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, 23<sup>rd</sup> January,*

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.	
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)				Max.	Min.			
Ins.		°				Ins.	Ins.	°	°	°						°	°	Ins.			
SCANDINAVIA.	Haparanda . . .	29.38	-5	N	2	b.c.	29.56	+28	-20	-22	-37	Z	0	b	#	b.c.	#	?	-22	-	
	Hernösand . . .	29.47	7	Z	0	b	29.65	+55	-4	-4	-12	N	2	b.c.	#	b	#	9	?	-	
	Stockholm . . .	29.38	19	NE	2	b	29.44	?	19	19	-24	NE	2	b	#	b	#	43	18	0.43	
	Wisby . . .	29.43	45	S	8	b	29.49	+15	41	40	-3	SSW	6	b	#	b	#	45	39	-	
	Karlstad . . .	29.35	20	NNE	2	b	29.51	+35	14	13	-25	NNE	4	0	#	b	#	#	#	0.28	
	Bodö . . .	29.46	17	E	1	0	29.53	+24	21	19	+5	E	4	b	1	0	#	?	12	-	
	Christiansund . . .	29.44	28	N	1	0	29.70	+53	24	23	-3	Z	0	b	5	0	#	28	23	-	
	Skudesnaes . . .	29.19	36	N	4	0	29.50	+35	31	30	-7	N	6	b	2	0	#	38	30	#	
	Færder (Christiania Fjord)	29.26	29	NNE	4	f	29.50	+35	22	21	-13	NNE	5	0	3	f	#	35	21	0.24	
	Skagen (The Scaw)	29.13	45	SSW	4	m	29.39	+17	33	33	-12	NNE	3	m	0	f	#	?	32	0.20	
Fanø . . .	29.43	45	SW	6	c	29.54	+16	44	42	-1	SW	6	c	#	c	#	48	44	-		
BRITISH ISLANDS.	Sumburgh Head	29.38	33	N	3	b	29.78	+60	34	32	-2	N	2	b	4	b	#	37	30	0.01	
	Stornoway . . .	29.46	37	NNE	4	0	29.91	+78	33	32	-5	NW	3	b.c.	3	0.05	38	29	0.60		
	Wick . . .	29.42	39	NE	4	c	29.81	+70	34	33	-6	NNE	3	b.c.	3	c	#	43	31	0.05	
	Nairn . . .	29.39	36	NE	3	r	29.87	+83	32	30	-4	N	2	b	2	r	#	41	30	0.14	
	Aberdeen . . .	29.31	38	NNE	6	o.g.r.q.	29.83	+82	34	33	-7	NW	5	c.q.	4	g.q.r.	0.0	41	34	0.15	
	Leith . . .	29.19	39	NE	3	r	29.86	+91	35	33	-9	NNE	3	0	#	r	#	44	34	0.12	
	Shields . . .	29.17	45	SW	2	r	29.74	+71	38	36	-8	NW	3	0	3	r	#	50	36	0.31	
	Spurn Head . . .	29.26	46	SW	6	b	29.70	+51	42	39	-6	NNE	5	c	5	b	#	50	40	-	
	York . . .	29.24	46	SSW	2	0	29.80	+67	38	37	-10	N	1	0	#	b.c.r	1.6	51	37	-	
	Loughborough . . .	29.35	46	SW	5	b	29.73	+49	39	38	-8	NW	2	o.g.m.	#	c.b.c.op	#	51	39	0.14	
GERMANY & HOLLAND.	Ardrossan . . .	29.21	40	NE	5	p	29.93	+99	34	34	-12	NW	3	b.c.	2	p	#	49	33	0.05	
	Malin Head . . .	29.27	38	N	6	r	29.97	+109	39	35	-4	N	5	b.c.	4	r	#	46	37	0.35	
	Belmullet . . .	29.51	43	N	8	op	30.10	+113	40	38	-5	N	3	0	#	0	#	43	35	0.23	
	Donaghadee . . .	29.15	46	NW	2	c	29.94	+100	39	36	-5	NNE	6	c	5	c	#	48	37	0.19	
	Liverpool (Bidston)	29.24	45	SW	4	0	29.85	+74	39	36	-8	N	3	b.c.	2	p	#	49	38	0.11	
	Holyhead . . .	29.16	46	WSW	7	q.p.a.	29.87	+84	41	39	-6	NE	5	0	4	o.g.p.a.	#	48	39	0.23	
	Parsonstown . . .	29.33	42	W	3	r	30.04	+105	35	34	-10	NW	1	b.c.	#	o.g.r.q.	0.0	46	35	0.26	
	Valencia . . .	29.64	44	NW	7	o.g.p.	30.13	+90	40	37	-7	NE	3	c	4	o.g.p.	0.5	48	39	0.24	
	Roche's Point . . .	29.45	45	NW	7	0	30.06	+89	40	38	-6	NW	4	b	4	o.g.r.q.	#	48	39	0.10	
	Pembroke (St. Ann's Hd.)	29.34	46	W	8	0	29.92	+79	39	38	-10	N	5	r	5	b.c.0	2.0	49	39	0.80	
FRANCE & BELGIUM.	Scilly . . .	29.61	47	W	7	ch.q.	29.96	+59	47	44	-2	NW	7	cp	5	ch.q.	5.6	50	42	0.08	
	Prawle Point . . .	29.82	46	WSW	6	b.c.	29.82	+43	40	40	-10	W	5	or	4	b.c.	#	50	39	0.05	
	Jersey (St. Aubin's)	29.70	50	WSW	5	b.	29.88	+30	48	44	-3	NW	5	b.c.	4	r.g.b.	#	55	45	0.07	
	Hurst Castle . . .	29.59	49	WSW	6	b	29.73	+30	45	43	-6	W	6	op	3	b	#	52	44	0.01	
	Dungeness . . .	29.54	49	SW	6	b.c.	29.72	+24	47	45	-4	WSW	6	b.c.	5	c.b.c.	#	53	46	-	
	North Foreland																				
	London (Brixton) . . .	29.53	46	SW	3	b	29.71	+28	42	41	-9	W	4	r	#	c.g.b.v.	3.1	54	42	0.01	
	Oxford . . .	29.50	44	SW	6	b	29.73	+39	41	40	-7	N	3	0	#	b.g.	#	51	41	0.12	
	Cambridge . . .	29.45	46	SW	5	b	29.68	+34	42	42	-7	NW	3	o.g.	#	q.p.b.	#	54	41	0.05	
	Yarmouth . . .	29.37	49	SW	5	b	29.62	+27	42	41	-8	WSW	3	o.g.m.	4	b	#	52	40	0.02	
PENIN- SULA.	Cuxhaven . . .	29.54	50	SW	5	c	29.67	+14	42	41	-6	SW	5	b.c.	#	c	#	50	41	-	
	Berlin . . .	29.78	50	SSW	4	b.c.	29.85	+07	45	42	+2	SW	3	b.c.	#	b.c.	#	50	43	-	
	Wiesbaden . . .	#	#	#	#	#	29.94		46	44		SW	2	c	#	#	#	54	45	-	
	Munich . . .	30.00	36	Z	0	b	30.02	-04	33	31	+2	SW	4	b	#	b	#	50	30	-	
	The Helder . . .	29.50	46	SW	5	b	29.63	+20	45	43	-3	SW	6	r	3	b	#	50	45	-	
	Brussels . . .	#	#	#	#	#	29.85	+19	41	39	-7	SSW	5	b	#	0	#	51	40	-	
	Cape Gris Nez . . .	?	50	W	6	c	?	?	48	44	-3	W	6	r	6	c	#	52	43	0.12	
	Paris . . .	29.82	48	SSW	4	0	29.95	+18	40	39	-10	SSW	3	b.c.	#	0	#	51	39	0.08	
	Brest . . .	29.77	50	W	5	c	29.98	+38	48	44	-4	NW	5	c	5	c	#	54	39	0.04	
	Lorient . . .	29.81	50	W	5	c	30.02	+35	48	48	-7	NW	4	b	4	c	#	55	46	-	
GERMANY & HOLLAND.	Rochefort . . .	29.95	50	WSW	3	0	30.09	+21	46	45	-4	WSW	1	b.c.	#	r.0	#	54	43	0.43	
	Belfort . . .	29.92	49	WSW	4	c	30.02	+04	42	42	0	SSW	2	r	#	c	#	56	42	-	
	Lyons . . .	30.01	50	SSW	4	0	30.07		45	43		W	1	r	#	0	#	54	45	-	
	Nice . . .	30.19	46	E	1	b	30.15	-13	41	37	0	?	4	b	2	b	#	54	39	-	
	Perpignan . . .	29.94	56	S	1	0	30.04	0.0	48	47	+14	SW	1	0	#	0	#	60	34	-	
	Biarritz . . .	29.95	52	NW	4	r	30.08	+23	47	46	-11	S	3	r	5	r	#	58	46	0.87	

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 *Monday, 23<sup>rd</sup> January, 1899.*

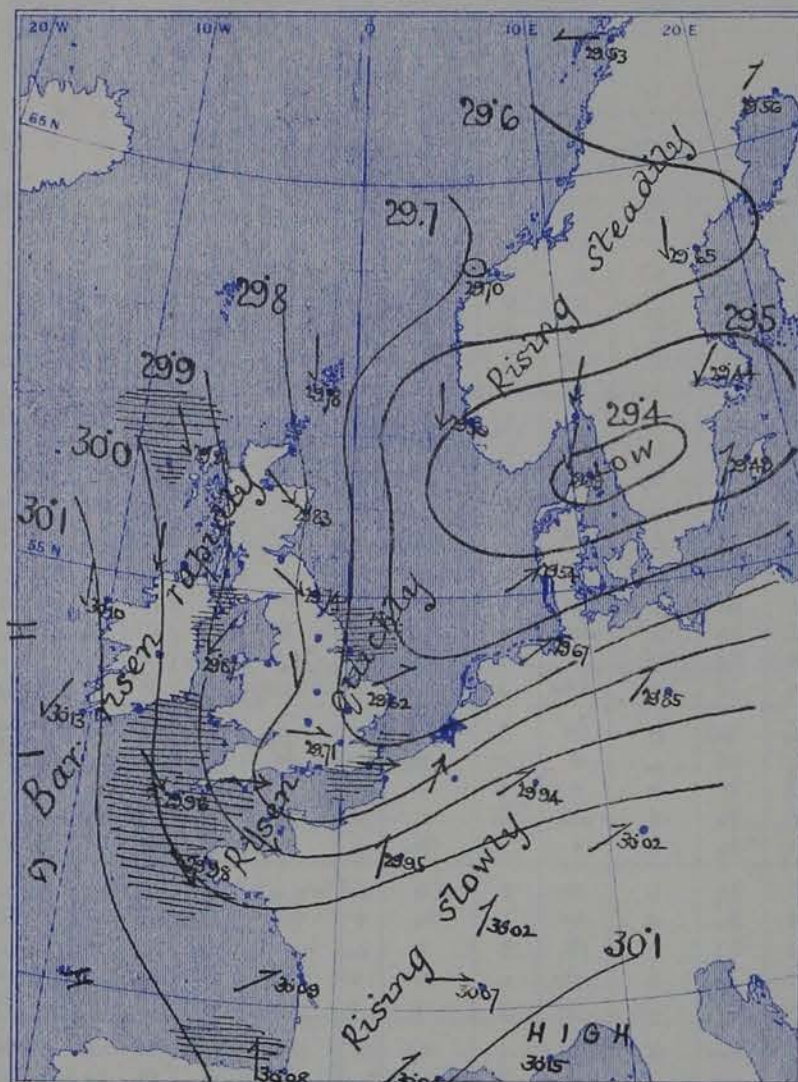
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

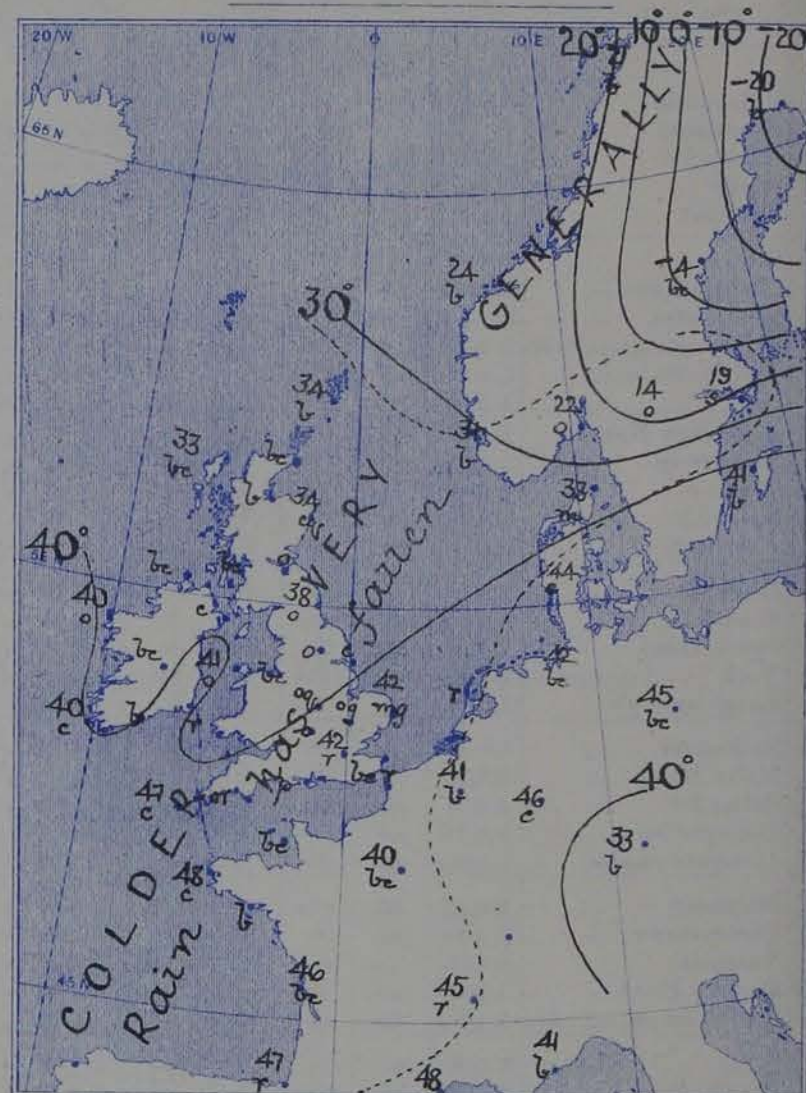


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	1	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90,	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Seilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82,	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	83, 90 1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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, 30.13 in. at Valence (Ireland), and exceeding 30 in. over all the western part of Ireland and also over the south of France.  
 Lowest, below 29.4 in. in a depression over the south of Norway, and 29.7 in. and less, in a secondary system over our eastern coasts.  
 Gradient moderate (for N winds) over our Islands.  
 Barometer has risen more than inch in Ireland, and to a smaller extent at our eastern stations.

## TEMPERATURE

Highest 48° to 46° in the east of France, 40° to 35° over Ireland.  
 Lowest, -20° at Haparanda, -4° at Helsingfors, +14° at Karlstad, 32° to 34° at the Scotch stations.  
 It has fallen from 5° to 10° over various parts of our Islands since yesterday, and minima below 30° have been recorded in various parts of our Islands.

## WIND

N<sup>1</sup> over Scotland and Ireland, NW<sup>1</sup> to N<sup>1</sup> over England, W<sup>1</sup> in the north and east of France, and SW<sup>1</sup> over Germany — moderate to fresh in force very generally.  
 The SW<sup>1</sup> gales have all died down and the N<sup>1</sup> breeze is spreading.

## WEATHER

Fine in Ireland and Scotland, dull over the north and east of England, rainy in the southwest and south.  
 The rainfall has been considerable in the NW and N. slight in the east and south.  
 Bright Sunshine was considerable at many of our western stations (? 7.5 hrs. at Llandudno), slight elsewhere. There was none in Scotland.

## SEA

has gone down generally, but is still rather rough in the southwest and west and in the Straits of Dover.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Moderate N<sup>2</sup> breezes and cold fair weather seem probable over our Islands — last of all at our southeastern stations.

# FORECASTS

For the 24 hours ending at NOON on 24<sup>TH</sup> JAN<sup>Y</sup> 1899.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	N <sup>2</sup> winds, moderate, fair, colder.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N <sup>2</sup> breezes, moderate; dull to fair, colder.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	NW <sup>2</sup> and N <sup>2</sup> winds; dull and rainy, then finer and colder.
5	ENGLAND SOUTH	



## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
7	ENGLAND N.W.	Same as N <sup>o</sup> 2 and 3.
8	ENGLAND S.W.	Same as N <sup>o</sup> 5.
9	IRELAND NORTH	N <sup>2</sup> breezes; fair, cold.
10	IRELAND SOUTH	

NONE ISSUED.

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.15	37	35	H	H	0	3	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.29	37	37	E	5	0.3	5	Jersey ...	29.67	54	49	W	6	C	5
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.50	51	50	SW	6	C	6
Ardrossan ...								North Foreland							
Malin Head ...	28.97	46	46	N	1	1	1	London (Westminster)							#
Belmullet ...	29.26	43	43	N	8	7	*	Yarmouth ...							
Holyhead ...								Rochefort ...	29.91	52	51	SSW	3	T	#

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

*The Summary will appear in tomorrow's report.*

### 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 *Tuesday 24<sup>th</sup> January, 1899.*

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)	Weather.	Max.	Min.	Rainfall.							
		Ins.	°				Ins.	Ins.	°	°	°					°	°	Ins.			
SCANDINAVIA.	Haparanda ...	29.66	-27	Z	0	b	29.76	+ .20	-22	-23	- 2	NNW	2	b	#	b	#	-8	-36	-	
	Hernösand ...	29.89	8	Z	0	b	30.01	+ .36	21	20	+ 25	W	2	c	#	b	#	?	?	-	
	Stockholm ...	29.86	17	N	4	s	30.14	+ .70	2	2	- 17	W	4	b	#	s	#	23	?	0.24	
	Wisby ...	29.78	29	N	6	o	30.12	+ .63	27	25	- 14	N	4	c	#	a	#	41	25	-	
	Karlstad ...	29.98	11	N	2	b	30.23	+ .72	5	5	- 9	NNW	2	b	#	b	#	#	#	-	
	Bodö ...	29.63	31	NW	5	bc	29.87	+ .34	31	28	+ 10	N	2	bc	1	bc	#	31	19	-	
	Christiansund ...	30.01	31	SW	2	s	30.12	+ .42	33	32	+ 9	WSW	6	c	5	s	#	34	23	0.04	
	Skudesnaes ...	30.04	30	NNE	1	b	30.29	+ .79	28	26	- 3	NE	2	b	1	b	#	34	27	#	
	Færder (Christiania Fjord)	29.97	24	NNE	5	b	30.25	+ .75	20	19	- 2	NNW	2	b	1	b	#	25	19	-	
	Skagen (The Scaw)	29.98	26	NE	3	o	30.25	+ .86	27	25	- 6	NE	2	b	0	o	#	34	23	-	
BRITISH ISLANDS.	Fanö ...	30.00	30	ENE	1	b	30.23	+ .69	29	27	- 15	ENE	4	c	#	b	#	45	28	-	
	Sumburgh Head	30.04	33	N	2	b	30.20	+ .42	40	38	+ 6	WNW	2	o	4	c, b	#	40	30	-	
	Stornoway ...	30.13	33	WNW	2	b	30.28	+ .37	33	31	0	WNW	3	b	3	b	4.7	41	29	0.15	
	Wick ...	30.10	34	N	1	c	30.23	+ .42	32	32	- 2	NNW	2	bc	1	c	#	38	26	0.01	
	Nairn ...	30.17	32	W	1	bc	30.32	+ .45	30	29	- 2	W	1	b	1	bc	#	38	25	-	
	Aberdeen ...	30.14	32	NW	3	b	30.39	+ .56	25	23	- 9	WNW	1	bm	3	spg, b	0.0	34	24	0.09	
	Leith ...	30.14	37	WNW	3	b	30.40	+ .84	27	26	- 8	Z	0	m	#	b	#	39	27	-	
	Shields ...	30.10	36	NW	3	o	30.37	+ .63	30	29	- 8	WNW	3	c	3	rsp, o	#	39	29	0.08	
	Spurn Head ...	30.03	38	NW	4	c	30.35	+ .65	35	35	- 7	NW	3	c	4	c, p	#	43	38	0.02	
	York ...	30.07	36	N	2	ors	30.41	+ .61	31	30	- 7	NNW	1	b	#	or, o, rs	0.0	40	30	0.09	
GERMANY & HOLLAND.	Loughborough ...	30.09	38	NNW	1	o	30.39	+ .66	29	29	- 10	WNW	1	bm	#	gm, cm, b	#	41	29	-	
	Ardrossan ...	30.18	40	NNE	1	b	30.40	+ .47	30	29	- 4	NNE	1	bc	1	b	#	40	28	-	
	Malin Head ...	30.18	41	NNW	3	b	30.35	+ .38	35	33	- 4	SSE	2	b	1	b	#	41	34	-	
	Belmullet ...	30.25	37	SSE	1	b	30.32	+ .22	35	34	- 5	SSE	2	c	#	b	#	44	30	0.02	
	Donaghadee ...	30.17	40	NNW	6	bc	30.40	+ .46	30	29	- 9	WNW	4	b	2	bc	#	42	28	0.01	
	Liverpool (Bidston)	30.14	38	NW	3	b	30.43	+ .58	33	31	- 6	Z	0	b	1	cm, b	#	40	32	-	
	Holyhead ...	30.17	41	N	5	crsp	30.29	+ .52	34	33	- 7	SE	1	b	1	crsp	#	42	33	0.01	
	Parsonstown ...	30.32	33	Z	0	b	30.38	+ .34	27	27	- 8	Z	0	c	#	b	4.9	42	25	-	
	Valencia ...	30.28	38	Z	0	b	30.27	+ .14	42	37	+ 2	ESE	4	bc	4	bc, b	7.1	47	32	-	
	Roche's Point ..	30.27	39	N	2	b	30.34	+ .25	42	39	+ 2	SE	4	b	4	b	#	45	32	-	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.19	40	NNW	4	c	30.39	+ .47	36	34	- 3	E	3	b	4	c	2.2	43	35	0.09	
	Seilly ...	30.19	45	NNW	4	c	30.30	+ .34	44	39	- 3	E	1	bc	2	cp, c	5.7	50	38	-	
	Prawle Point ...	30.18	40	NNW	3	bc	30.38	+ .36	31	30	- 9	NNW	3	bc	2	bc, cm	#	47	30	-	
	Jersey (St. Aubin's)	30.11	45	NW	4	bc	30.35	+ .47	41	37	- 7	NNW	2	cm	2	cp, bc	#	49	38	0.22	
	Hurst Castle ...	30.10	39	NW	1	bm	30.35	+ .62	33	30	- 12	NNE	1	cm	1	cm, bm	#	46	31	0.02	
	Dungeness ...	29.98	41	N	3	c	30.29	+ .57	35	35	- 12	NNW	3	bc	2	r, c	#	50	32	0.01	
	North Foreland																#				
	London (Brixton) ...	30.06	40	NNW	4	b	30.33	+ .62	36	35	- 6	NNE	3	og	#	cd, bc, og	0.0	43	35	0.08	
	Oxford ...	30.17	36	NNW	3	o	30.38	+ .65	33	32	- 8	NNE	1	b	#	c, o	#	42	33	-	
	Cambridge ...	30.08	38	N	4	r	30.36	+ .68	31	31	- 17	NNW	2	b	#	r	0.0	43	30	0.03	
PENIN- SULA.	Yarmouth ...	29.95	41	NNW	4	c	30.29	+ .67	39	35	- 3	NNE	4	bc	5	c, hg	#	44	33	0.12	
	Cuxhaven ...	29.80	43	WSW	4	o	30.16	+ .49	31	30	- 11	N	4	o	#	o, d	#	45	28	0.08	
	Berlin ...	29.94	44	SW	2	b	30.01	+ .16	38	37	- 7	W	2	o	#	b	#	50	36	-	
	Wiesbaden ...	#	#	#	#	#	30.11	+ .17	37	36	- 9	SW	2	o	#	#	#	50	34	-	
	Munich ...	30.07	38	E	3	bc	30.13	+ .11	38	37	+ 5	W	4	r	#	bc	#	48	33	-	
	The Helder ...	29.87	39	NNE	3	o	30.21	+ .88	37	35	- 8	NE	3	s	3	o	#	46	36	0.20	
	Brussels ...	#	#	#	#	#	30.23	+ .38	36	34	- 6	WNW	2	c	#	r	#	48	34	0.12	
	Cape Gris Nez ...	?	45	NNE	6	o	?	?	41	38	- 7	N	4	c	5	o	#	50	37	0.12	
	Paris ...	30.02	43	S	2	bc	30.26	+ .31	38	36	- 2	NW	3	o	#	bc	#	51	38	-	
	Brest ...	30.20	46	NNW	4	f	30.32	+ .34	39	37	- 9	NE	1	b	2	f	#	50	34	-	
PENIN- SULA.	Lorient ...	30.24	48	NW	4	c	30.30	+ .28	41	40	- 7	NNE	4	b	5	c	#	52	39	-	
	Rochefort ...	30.23	48	NW	3	bc	30.32	+ .23	39	37	- 7	NE	3	b	#	bc	#	52	36	-	
	Belfort ...	30.10	39	SW	2	r	30.13	+ .11	37	36	- 5	SSW	4	o	#	r	#	46	36	0.10	
	Lyons ...	30.19	40	S	1	r	30.26	+ .19	39	35	- 6	NW	1	o	#	r	#	46	36	0.47	
	Nice ...	30.12	47	E	1	r	30.08	- .07	42	41	+ 1	E	4	r	3	r	#	55	41	0.04	
	Perpignan ...	30.15	48	NW	3	o	30.26	+ .22	43	40	- 5	NW	3	b	#	o	#	51	41	-	
	Biarritz ...	30.20	50	N	2	r	30.26	+ .18	43	42	- 4	N	2	r	4	r	#	54	41	0.43	
	Corunna ...																#				
	Lisbon ...	30.32	48	N	3	c	30.32	+ .03	40	39	- 8	NNE	3	o	#	c	#	57	39	-	
	Azores (P. Delgada)	29.90	59	W	4	c	29.90	+ .08	59	57	0	WSW	4	o	4	c	#	64	57	-	

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport 2.2 hrs;



# WEATHER CHARTS

FOR Tuesday, 24<sup>th</sup> January, 1899.

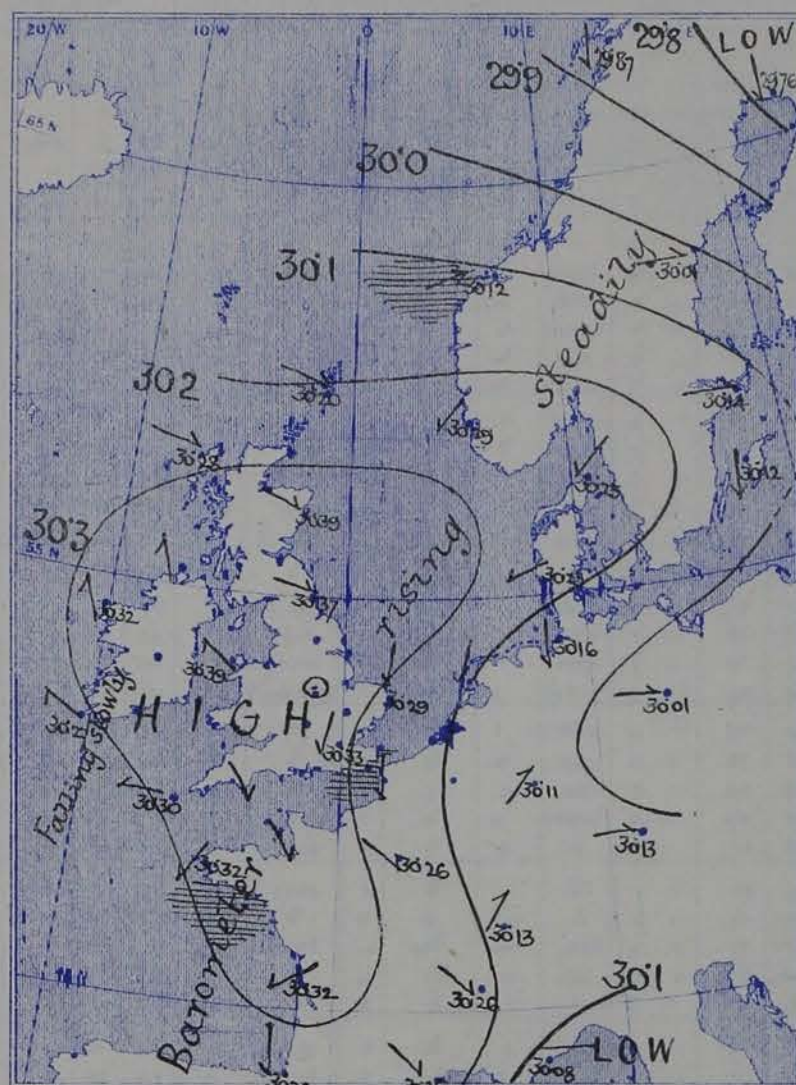
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ : High ≡

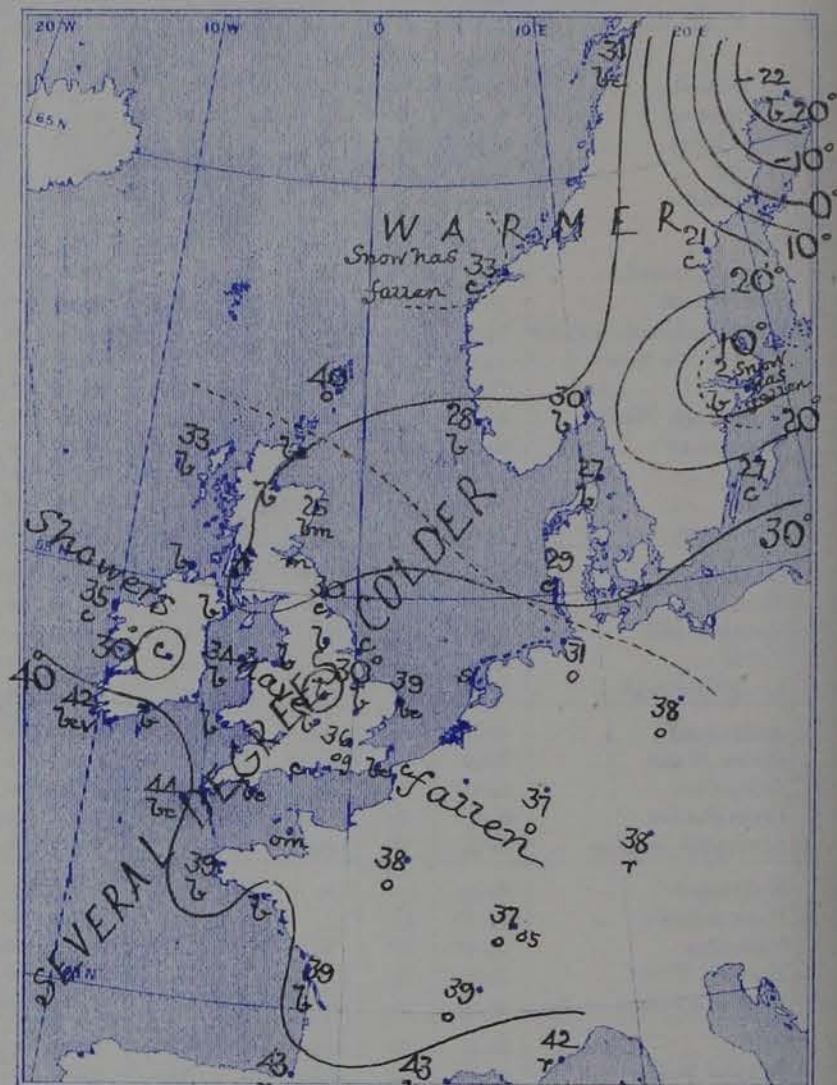


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Behmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 N. of England and the S. of Scotland, 30.2 ins. and upwards in an anticyclone covering the greater part of W. Europe.  
 Lowest 29.8 ins. and less in Lapland.  
 Gradients slight. Barometer rising generally, but falling slightly at Valencia (Ireland).

## TEMPERATURE

Highest 44° at Seilly, 43° at Biarritz and Perpignan, and 42° at Valencia (Ireland), Roches P. & N. d. d.  
 Lowest -22° F. at Haparanda, +2° at Stockholm, and 5° at Karlstad; lowest in our Islands, 25° at Aberdeen, and 27° at Leith and Parsonstown.  
 Frost occurred last night in most parts of the United Kingdom, the lowest reading reported being: - (1) in the screen 24° at Aberdeen, and 25° at Nairn and Parsonstown; (2) on the grass 22° at Loughborough.

## WIND

Light from the N. (NE. to NW) over England and the western parts of the Continent.  
 E. or SE. over Ireland and Wales, W. or NW. over the north of Scotland and the greater part of Scandinavia, and strong in force at Christiansund.

## WEATHER

Fine over nearly the whole of our Islands, Scandinavia, Denmark and the W. of France, but dull and gloomy in London.  
 Dull over Holland, Germany and the central and N. parts of France, with rain at Nice and Biarritz and snow at the Helder.  
 A little rain fell yesterday in several parts of the United Kingdom, and snow or sleet at many of our N. stations. Lunar halos were seen last night at Starnoway, Spurn H. and Valencia.

## SEA

Moderate or slight generally, but rather rough at Yarmouth, Cape Gris Nez and Zorient, and also at Christiansund.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning a large anticyclone has spread from the Atlantic over nearly the whole of W. Europe. The barometer is now beginning to fall again at Valencia (Ireland), and it is not unlikely that a depression will shortly appear off our southwest coasts.

# FORECASTS

For the 24 hours ending at NOON on 25<sup>TH</sup> JANUARY 1899.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

W. to S.W. winds, light, fair generally.  
 NW winds, light, fair generally, but some mist or fog.  
 N. winds, light, fair generally, but some mist or fog.

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

Light breezes, chiefly E.; fair generally, but some mist or fog.  
 E. and SE winds moderate, fair generally.  
 E. and SE winds freshening, fine at first, some rain later.

## WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.78	34	32	N	4	b	2	Valencia ...	30.21	46	40	7	0	bv	3
Sumburgh Head ...	29.95	35	34	N	2	c	4	Scilly ...	30.11	49	46	NNW	6	sp	5
Stornoway ...	30.05	41	38	NW	2	b	3	Jersey ...	29.99	45	43	NNW	5	op	4
Aberdeen ...	30.01	34	33	NNW	5	cq, sp	4	Hurst Castle ...	29.94	43	42	NNE	4	com	3
Shields ...	29.97	36	36	NW	4	sp	4	Dungeness ...	29.85	42	42	NNW	4	r	4
Ardrossan ...	30.06	40	38	N	3	b	2	North Foreland							
Malin Head ...	30.10	39	38	NNW	3	b	2	London (Westminster)	29.93	43	39	NNW	4	o	#
Belmullet ...	30.19	45	40	N	2	b	#	Yarmouth ...	29.82	41	39	N	4	c	4
Holyhead ...	30.07	39	38	NNW	4	csp	4	Rocheport ...	30.16	52	46	NW	4	b	#

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

*Continental Information will appear tomorrow.*

### SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 15<sup>TH</sup> TO THE 21<sup>ST</sup> JAN: 1899.

During the first part of this week pressure was highest over the Spanish Peninsula and the southwest of France, and lowest over northwestern Europe and to the northward of the British Islands, but after Wednesday the area of highest pressure moved eastwards slowly, and finally covered the Mediterranean, Italy, and neighbouring parts of Southern Europe, while depressions continued to move from SW. over the western and northern parts of our Islands to northern Europe. Thus, while with few exceptions the southern parts of the Continent have had quiet weather the north-western and northern parts have been visited by a series of depressions and SW' gales doing great damage, and succeeding one another very steadily, accompanied by rain, and high temperature.

At the close of the week the barometer rose over northern Europe, the distribution of pressure became very complex, and the passage of depressions over our Islands seemed likely to cease for a time.

### Remarks on the Weather over Europe for the 24 hours ended 8 a.m. Jan: 22<sup>ND</sup> 1899

Weather in morning fair but dull over southern and southern Europe, unsettled in the north (though clear in places); very unsettled, squally and rainy in the British Islands. Large quantities of rain in the northwest of Ireland and later, and a considerable quantity in Ireland and the north of England - a little over our eastern counties. A considerable fall at Lamma also.

Temperature risen. Highest (50° to 54°) again all over England, the south of Ireland and Brittany. Lowest - 10° F. at Itapavand a Tropico, +10° at Hainaut, 27° at Chirkamund, 32° at Vienna, 35° at Munich, 41° at Riepost and Tunis. Rising a little in England later, and still more in France, but not touching 40° in the Shetlands and Hebrides.

Wind SW' to S', strong to a gale all over Holland, England, Ireland, and the Bay of Biscay, but E' strong to a gale in the north of Scotland, lighter from SW. over France and Central Germany, E' to NE' over the northern half of Scandinavia. Very little change later.

Barometer highest 30.4 in: and more in many parts of the Mediterranean, and ranging from 30.3 in: to 29.7 in: over the greater part of France; (2) 29.7 in: and more over the northern and central parts of Finland. Lowest 28.9 in: in a depression off our northwest coast, and below 29.0 in: in a secondary disturbance over Scotland. Further disturbances approaching our western and northern coasts later, and distribution of pressure becoming very complex in 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.

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" Weekly " " " " £1 10 0 " "



# DAILY WEATHER REPORT

for 8 a.m. on

Wednesday, 25<sup>th</sup> January,

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.				
At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.	Weather.	Max.	Min.	Rainfall.						
Ins.	°				Ins.	Ins.	°	°	°					°	°	Ins.					
SCANDINAVIA.	Haparanda ...	30.12	0	N	2	b	29.98	+22	-7	-8	+15	2	0	c	#	b	#	10	-33	-	
	Hernösand ...	30.19	18	2	0	S	30.21	+20	29	27	+8	SW	2	b	#	S	#	?	-11	0.04	
	Stockholm ...	30.33	12	W	2	b	30.39	+25	18	17	+16	W	2	b	#	b	#	18	0	-	
	Wisby ...	30.36	30	NW	4	b	30.52	+40	30	29	+3	NW	4	b	#	b	#	32	23	-	
	Karlstad ...	30.42	4	NW	1	b	30.49	+26	1	1	-4	N	2	b	#	b	#	#	#	-	
	Bodö ...	?	27	E	4	S	29.97	+10	38	36	+7	SW	6	0	3	S	#	?	21	0.20	
	Christiansund ...	30.29	27	SW	6	r	30.37	+25	39	39	+6	WSW	6	r	5	r	#	39	32	0.20	
	Skudesnaes ...	30.46	37	ESE	2	0	30.59	+30	40	39	+12	N	1	0	2	c, 0	#	40	28	#	
	Færder (Christiania Fjord)	30.41	24	W	2	b	30.48	+23	29	28	+9	NW	2	c	1	b	#	29	19	-	
	Skagen (The Seaw)	30.47	31	W	1	b	30.53	+28	36	34	+9	2	0	b	0	b	#	36	25	-	
BRITISH ISLANDS.	Fanö ...	30.57	28	2	0	b	30.65	+42	34	32	+5	W	1	c	#	b	#	34	25	-	
	Sumburgh Head	30.34	40	W	1	c	30.49	+29	38	38	-2	SSW	1	c	4	r, c	#	44	36	0.10	
	Stornoway ...	30.37	39	SW	3	bc	30.42	+14	38	37	+5	SW	5	b	5	b, bc	4.4	44	30	0.03	
	Wick ...	30.44	35	N	2	b	30.48	+25	34	33	+2	SW	2	b	1	b	#	44	29	-	
	Nairn ...	30.46	31	2	0	b	30.53	+21	25	23	-5	2	0	b	1	b	#	40	20	-	
	Aberdeen ...	30.49	27	W	1	b	30.62	+23	31	28	+6	SW	2	bm	2	b	6-6	34	23	-	
	Leith ...	30.49	33	2	0	m	30.62	+22	23	22	-4	2	0	f	#	m	#	33	22	-	
	Shields ...	30.51	38	W	2	c	30.63	+26	27	27	-3	W	1	f	2	bc	#	39	26	-	
	Spurn Head ...	30.49	39	NE	3	b	30.65	+30	39	35	+4	ESE	3	b	3	b	#	42	35	-	
	York ...	30.49	35	H	1	b	30.69	+28	26	26	-5	H	1	b	#	b, f	3.9	39	24	-	
GERMANY & HOLLAND.	Loughborough ...	30.50	33	2	0	b	30.67	+28	20	20	-9	W	1	of	#	bm, bf	#	40	20	-	
	Ardrossan ...	30.47	34	2	0	bf	30.60	+20	31	30	+1	NNE	2	bf	3	bf	#	38	28	-	
	Malin Head ...	30.38	35	SSE	3	bm	30.41	+06	36	34	+1	SSE	5	bm	2	b	#	40	34	-	
	Belmullet ...	30.28	39	SSE	6	b	30.31	-01	44	40	+6	SSE	5	0	#	b	#	41	35	0.01	
	Donaghadee ...	30.44	38	SSE	3	bc	30.55	+15	38	35	+8	SSE	5	b	3	b	#	44	29	-	
	Liverpool (Bidston)	30.51	36	SE	1	m	30.64	+21	29	28	-4	SE	2	bf	?	m, f	#	38	28	-	
	Holyhead ...	30.47	37	E	1	b	30.57	+18	33	30	-1	SE	2	bm	1	b	#	42	30	-	
	Parsonstown ...	30.37	36	SE	1	c	30.43	+05	39	37	+12	SE	1	0	#	c	3.8	40	26	-	
	Valencia ...	30.22	46	SE	6	og	30.27	-00	47	43	+5	SE	6	om	5	og, g	0.0	47	41	-	
	Roche's Point ...	30.34	45	SE	5	0	30.39	+05	47	45	+5	S	8	c	5	c, 0	#	47	41	-	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.42	40	ESE	4	bc	30.53	+14	38	35	+7	SE	5	bc	4	bc	6.0	44	35	-	
	Seilly ...	30.30	45	ESE	5	c	30.40	+10	45	42	+1	ESE	6	c	5	c	3.1	47	39	-	
	Prawle Point ...	30.42	40	ESE	3	c	30.52	+14	42	39	+11	ESE	3	cp	3	c	#	45	30	0.01	
	Jersey (St. Aubin's)	30.40	43	ESE	3	b	30.54	+19	38	36	-3	E	3	bcm	3	bcm, b	#	45	37	-	
	Hurst Castle ...	30.45	36	NE	2	bm	30.58	+23	33	32	0	NE	2	bm	2	bm	#	43	32	-	
	Dungeness ...	30.42	40	NNE	5	c	30.56	+27	38	36	+3	ESE	5	bc	4	bc, hq	#	43	34	0.12	
	North Foreland																				
	London (Greenwich)	30.48	39	NE	3	b	30.61	+28	31	29	-5	ESE	2	bf	#	bc, 0, b	0.5	42	29	-	
	Oxford ...	30.53	32	NNE	1	b	30.65	+27	25	25	-8	NNE	1	b	#	b	#	43	25	-	
	Cambridge ...	30.50	33	H	2	b	30.67	+31	25	24	-6	NNE	1	b	#	b	6.0	42	24	-	
PENINSULA.	Yarmouth ...	30.40	40	NNE	4	bc	30.63	+24	38	34	-1	E	4	b	4	b, bc	#	44	32	-	
	Cuxhaven ...	30.30	30	NNE	4	b	30.62	+46	30	29	-1	NNE	2	b	#	b	#	31	28	-	
	Berlin ...	30.28	34	NW	4	S	30.49	+48	32	30	-6	NNE	4	c	#	S	#	43	30	0.04	
	Wiesbaden ...	?	#	#	#	#	30.39	+28	33	31	-4	NE	2	0	#	#	#	44	33	-	
	Munich ...	30.18	53	2	0	S	30.16	+03	29	29	-9	H	6	S	#	S	#	38	28	1.10	
	The Helder ...	30.45	37	NE	3	b	30.63	+42	34	32	-3	ESE	2	b	1	b	#	39	32	-	
	Brussels ...	?	#	#	#	#	?	?	28	27	-13	E	4	bc	#	bc	#	45	27	0.12	
	Cape Gris Nez ...	?	38	E	3	r	?	?	28	26	-10	NNE	2	b	#	bc	#	44	?	-	
	Paris ...	30.38	38	H	3	bc	30.48	+22	28	26	-10	NNE	2	b	3	0	#	44	36	-	
	Brest ...	30.38	40	ESE	1	0	30.43	+11	37	37	-2	E	2	b	5	c	#	46	34	-	
GERMANY & HOLLAND.	Lorient ...	30.37	41	E	4	c	30.47	+17	36	34	-5	E	4	b	5	c	#	46	34	-	
	Rochefort ...	30.38	39	E	2	m	30.46	+14	32	31	-7	SSE	4	b	#	b, m	#	52	30	-	
	Belfort ...	30.25	30	W	3	bc	30.32	+19	27	26	-10	ESE	5	0	#	bc	#	39	27	0.04	
	Lyons ...	30.32	35	H	2	r	30.33	+07	30	29	-9	NW	2	b	#	r	#	43	29	-	
	Nice ...	29.99	45	ESE	4	bc	29.96	-12	37	36	-6	NE	4	b	2	bc	#	55	37	0.04	
	Perpignan ...	30.26	45	H	2	b	30.26	-00	40	?	-3	NW	2	0	#	b	#	?	?	?	
	Biarritz ...	30.26	48	NW	2	0	30.29	+03	35	34	-8	E	4	b	4	0	#	50	34	0.04	
	Corunna ...																				
	Lisbon ...	30.30	52	SE	1	r	30.29	-03	44	48	+9	E	1	0	#	r	#	55	40	-	
	Azores (P. Delgada)	29.80	61	SSW	4	c	29.73	-17	59	59	0	SSW	5	t	5	c	#	64	57	0.20	

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport 3.8 hrs;



# WEATHER CHARTS

FOR Wednesday, 25<sup>th</sup> January, 1899.

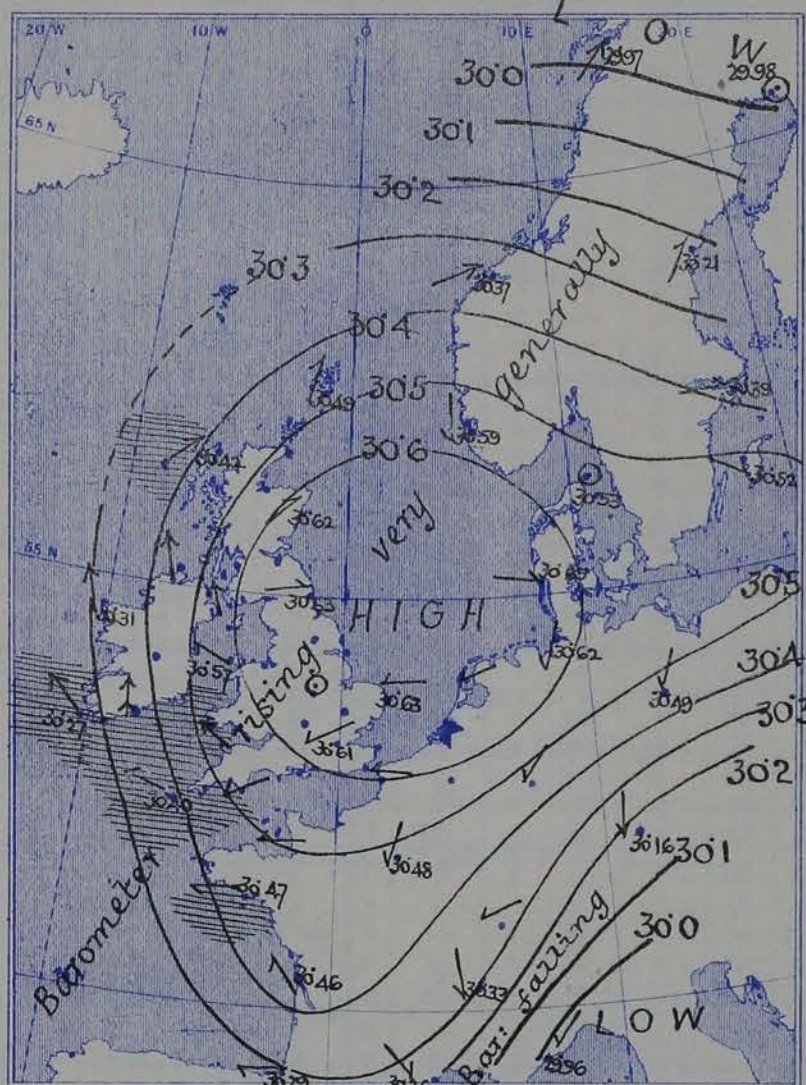
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

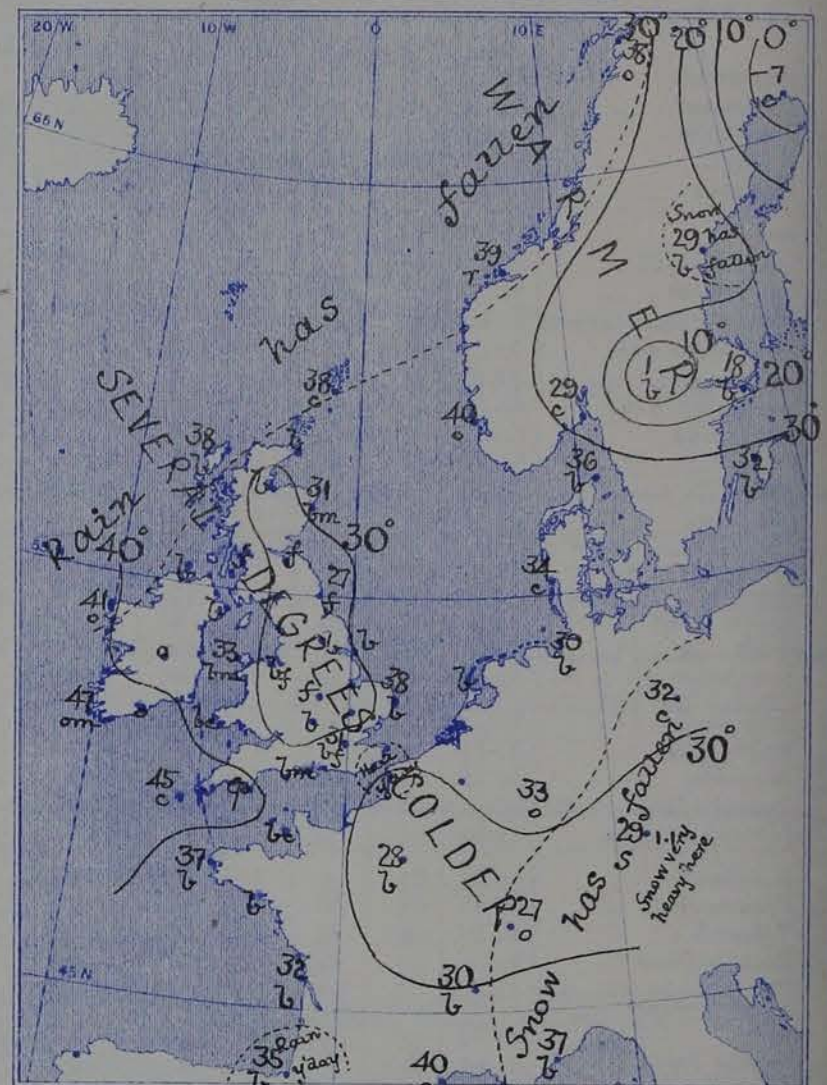


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82,	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	83, 90 1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in; and upwards over the greater part of England, the Netherlands, the North Sea, and the east of Scotland; 30.3 in; and upwards in an anticyclone embracing nearly the whole of Northern Europe.  
 Lowest, 30.0 in; and less, in the north of Scandinavia and also in a depression over the Gulf of Genoa.  
 Gradients moderate or slight generally, but rather steep over the southeast of France.  
 Barometer rising generally, but falling a little over the extreme southern parts of France and Germany.

## TEMPERATURE

Highest, (1) 49° at Luton, 47° at Valence (Ireland) and Rocher, 45° at Seilly, 42° at Pauillac, and 41° at Belmullet.  
 Lowest, -7° F at Haparanda, +1° at Karlstad and 18° at Stockholm; lowest in our Islands 20° at Loughborough and 23° at Leith.  
 Sharp frost occurred over the United Kingdom last night, the lowest readings reported being: (1) In the centre 20° at Harrow and Loughborough, 22° at Leith and 23° at Aberdeen; (2) On the coast 18° at Loughborough and 22° in London.

## WIND

Light to moderate from the NE over the greater part of England, the Netherlands, Germany, and the east of France.  
 Moderate from the E in the west of France; fresh to strong from the SE or S in Ireland, with a gale at Rocher.  
 SW or W over Scotland and Scandinavia, and strong in force in the west of Norway.

## WEATHER

Fine over Northern Europe as a whole, but with fog in several parts of Great Britain.  
 Cloudy or dull on our own extreme west and southwest coasts, and also in the west of Norway and in Germany, with rain at Christiania and some at Munich.  
 Light rain fell yesterday in the Netherlands and Heligoland, and larger amounts at several of the Continental stations, hail squalls occurred at Bremen in the night.

## SEA

Rather rough on our extreme southwest coasts, and also at Honfleur and Christiania, but moderate to smooth elsewhere.

## 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 26<sup>th</sup> JAN. 1899.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	SW <sup>2</sup> winds, moderate or fresh; fine at first, some rain later.
1	SCOTLAND EAST	SW <sup>2</sup> winds, light; fine generally.
2	ENGLAND N.E.	Light Variable airs; fine generally but mist or fog locally.
3	ENGLAND EAST	NE <sup>2</sup> winds, light or moderate; fine generally, but some mist or fog
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	Light breezes, chiefly E <sup>2</sup> ; fine generally, but some mist or fog.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E <sup>2</sup> and SE <sup>2</sup> winds, fresh or strong; fair generally.
9	IRELAND NORTH	SE <sup>2</sup> and S <sup>2</sup> winds, strong; fair at first, some rain later.
10	IRELAND SOUTH	

## WARNINGS

At 7.20 pm yesterday to district 10  
 "Hoist South Cone"

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes	30.44	35	33	ESE	4	C	2	Valencia	30.22	46	40	S	6	oqy	5
Sumburgh Head	30.31	41	40	W	2	T	4	Scilly	30.35	45	40	E	3	C	2
Stornoway	30.35	44	43	WSW	3	6	3	Jersey	30.39	44	41	NE	3	bc	3
Aberdeen	30.45	34	31	W	1	6	2	Hurst Castle	30.41	42	39	NE	3	bm	2
Shields	30.46	38	35	W	3	6	3	Dungeness	30.35	42	40	ENE	4	bc	3
Ardrossan	30.45	38	37	Z	0	6	0	North Foreland							
Malin Head	30.38	40	37	SSE	2	6	1	London (Westminster)	30.41	42	39	ENE	3	bc	#
Belmullet	30.30	41	38	SSE	4	6	#	Yarmouth	30.38	41	36	ENE	5	6	5
Holyhead	30.45	41	38	E	1	6	1	Rocheport	30.38	51	45	ENE	5	6	#

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

Weather in morning fine over nearly the whole of our Islands and the west of France, as well as in Russia and Scandinavia. Cloudy or dull in most other parts of Europe, with fog over Austria and Southern Germany, rain at Limerick, Munich, Biarritz, Nice, and Rome, and snow at the Helder. A little rain falling later in the Netherlands and Ireland, and snow in several parts of Scandinavia and Germany, - fall being heavy at Munich.

Temperature fallen generally. Morning readings highest 54° at Langunaires, 52° at Paris and Lvon, and 51° at La Celle; above 45° at most of the Mediterranean stations. Lowest -22° at Haparanda, -8° at Uleaborg, and -5° at Kuopio; considerably below the freezing point over Northern Europe generally, as well as in some parts of Ireland and Scotland. Daily maxima below 40° several of our own northern stations, and below 45° on all but our extreme southwest coasts; thermometer exceeding 50° in the west and south of France. Sharp frost occurring over our Islands at night.

Wind light from the N<sup>W</sup> (NE to NW) over England and the western parts of the Continent generally, but from the SE<sup>W</sup> on our own western coasts. W over Scotland, Scandinavia and northern Russia, and strong in force at Christianaund; light from the SW<sup>W</sup> in the south of Russia; calm in Austria; E or NE over northern Italy, but W or SW in the south of that country. Subsequently increasing to a strong breeze from the SE<sup>W</sup> in the east and south of Ireland; no important change occurring elsewhere.

Barometer highest 30.4 in. and upwards over the north of England and the south of Scotland; 30.1 in. and upwards in an anticyclone embracing all but the northeastern parts of Europe. Lowest 29.4 in. and less, in a depression over northern Russia. Anticyclone increasing later in height but barometer beginning to fall a little on our own extreme southwest coasts.

## General Remarks on the Weather over Europe for the 24 hours ended at 8 a.m. on 24<sup>th</sup> Jan. 1899

Weather in morning fine in Scotland and also over Belgium, the north of France, and the northern parts of Scandinavia and Finland. Cloudy or dull in most other parts of Europe, with rain in the south of England, as well as the Helder, Brest, Lyons, and Biarritz; snow falling over the south of Sweden and the Gulf of Finland. Showers falling later in many parts of the United Kingdom (with snow or sleet at several of the northern stations), and steady rain in the east and south of France.

Temperature fallen generally, but risen considerably over northern and central Russia. Morning readings highest 57° at Malta, 56° at Algiers, and 55° at Langunaires, Cagliari, and Nemours; above 50° at most of the Mediterranean stations. Lowest -20° at Haparanda, -13° at Uleaborg, -4° at Haparanda, and 0° zero at Kuopio; considerably below the freezing point over northern Europe generally, and very little above it in Scotland and Central Ireland. Daily maxima below 40° in the north of our Islands, and below 45° on all but our south and southwest coasts, thermometer exceeding 50° in many parts of France, and reaching 57° at Brest. Frost occurring over the United Kingdom at night.

Wind moderate to strong from the N<sup>W</sup> or NW<sup>W</sup> over all the more western and northern parts of our Islands, from the W<sup>W</sup> in the south and east of England, and from the SW<sup>W</sup> over the Netherlands, Denmark, Germany, and the Baltic. N over Scandinavia and northern Russia, and strong in force in the south of Norway. Light from the S over the southern parts of France and Italy; variable over northern Italy. Subsequently rising to the NW<sup>W</sup> or N<sup>W</sup> in the south and east of England; no important change occurring elsewhere.

Barometer highest 30.2 in. and upwards in an anticyclone covering all the more southwestern parts of Europe, and also in another system over the southwestern parts of the Spanish Peninsula. Lowest 29.0 in. and less in a depression over the extreme north of Russia; 29.4 in. and less, in another disturbance over the south of Sweden. New anticyclone spreading later over the western parts of our Islands; Swedish depression moving eastwards and filling up.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT

for 8 a.m. on

Thursday, 26<sup>th</sup> January,

1899.

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
	BAROM.	TEMP.	WIND.		Weather.		BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)		Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.
	At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)			At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)						Max.	Min.	
	Ins.	°					Ins.	Ins.	°	°	°								°	°	Ins.
<b>SCANDINAVIA.</b>																					
Haparanda ...	29.83	25	HW	4	bc		30.03	+0.5	23	22	+30	Z	0	c	#		bc	#	25	-17	-
Hernösand ...	-	-	-	-	-		30.32	+1.1	36	33	+7	W	2	0	#		?	#	36	16	-
Stockholm ...	30.54	23	W	2	b		30.54	+1.5	22	21	+4	WSW	2	c	#		b	#	25	10	-
Wisby ...	30.56	34	W	4	b		30.56	+0.4	34	32	+4	WNW	4	b	#		b	#	36	27	-
Karlstad ...	30.63	9	N	1	b		30.62	+1.3	2	1	+1	N	2	b	#		b	#	#	#	-
Bodo ...	30.06	40	WSW	6	r		29.88	-0.9	40	39	+2	WSW	8	r	5		r	#	41	34	0.39
Christiansund ...	30.52	40	SW	4	bc		30.39	+0.2	41	36	+2	WSW	4	0	5		bc	#	41	39	-
Skudesnaes ...	30.74	37	Z	0	c		30.73	+1.4	39	36	-1	SW	2	c	2		b.c	#	43	36	#
Færder (Christiania Fjord)	30.64	30	ESE	1	m		30.61	+1.3	26	26	-3	SW	1	f	1		m	#	30	25	-
Skagen (The Scaw)	30.67	36	Z	0	bc		30.67	+1.4	33	33	-3	W	1	b	0		bc	#	39	28	-
Fanö ...	30.76	34	HW	1	b		30.77	+1.2	32	32	-2	WNW	1	b	#		b	#	39	32	-
Sumburgh Head	30.48	40	SSW	4	c		30.51	+0.2	40	38	+2	W	3	0	4		b.c	#	43	35	-
Stornoway ...	30.41	40	SSW	7	bc		30.48	+0.6	40	39	+2	SW	6	c	6		c.bc	#	41	35	-
Wick ...	30.56	36	S	4	bc		30.56	+0.8	35	34	+1	WNW	1	b	1		bc	#	39	32	-
Nairn ...	30.54	32	W	1	b		30.61	+0.8	32	30	+7	W	1	bc	1		b	#	39	20	-
Aberdeen ...	30.64	32	SW	2	b		30.69	+0.7	29	28	-2	SW	2	b.m	1		b.m.b	#	36	28	-
Leith ...	30.66	32	Z	0	m		30.73	+1.1	23	22	0	Z	0	f	#		m	#	40	22	-
Shields ...	30.73	34	S	2	m		30.75	+1.2	27	27	0	S	1	f	2		f.b.m	#	39	26	-
Spurn Head ...	30.70	39	E	2	b.m		30.73	+0.8	41	39	+2	E	3	b.c	3		b.c	#	44	38	-
York ...	30.71	35	E	1	b		30.77	+0.8	23	23	-3	NNE	1	b	#		f.b	#	40	22	-
Loughborough ...	30.70	30	ESE	1	b		30.74	+0.7	26	26	+6	ESE	1	b.m	#		f.b.m.c.m	#	42	18	-
<b>BRITISH ISLANDS.</b>																					
Ardrossan ...	30.64	37	SE	4	b.f		30.70	+1.0	37	36	+6	SE	4	c.m	3		b.f	#	40	30	-
Malin Head ...	30.45	37	SSW	6	b.m		30.54	+1.3	35	34	-1	S	6	b.m	2		b.m	#	39	29	-
Belmullet ...	30.87	44	S	7	0		30.48	+1.7	39	37	-2	SSW	5	c	#		0	#	45	35	0.01
Donaghadee ...	30.58	38	SSW	5	b		30.69	+1.4	35	33	-3	SSW	5	bc	3		b	#	42	33	-
Liverpool (Bidston)	30.69	33	SE	2	b		30.73	+0.9	28	27	-1	SE	1	b	#		b.m	#	36	26	-
Holyhead ...	30.62	35	SE	3	b.m		30.69	+1.2	32	30	-1	SE	1	b.m	1		b.b.m	#	39	30	-
Parsonstown ...	30.50	41	S	1	bc		30.60	+1.7	34	32	-5	SE	1	c	#		bc	#	45	33	-
Valencia ...	30.37	47	SE	7	o.g.g		30.49	+2.2	45	40	-2	SE	5	0	5		o.g.g	#	48	43	-
Roche's Point ...	30.48	46	SSE	8	bc		30.59	+2.0	44	41	-3	SSE	6	c	5		bc	#	48	42	-
Pembroke (St. Ann's Hd.)	30.59	37	SE	5	b		30.67	+1.4	35	33	-3	E	3	b	4		b	#	41	34	-
Scilly ...	30.48	45	ESE	6	c		30.53	+1.3	42	39	-3	ESE	5	c	4		c	#	38	38	-
Prawle Point ...	30.57	39	E	4	c		30.59	+0.7	37	35	-5	E	5	bc	4		c.p.c	#	42	35	0.02
Jersey (St. Aubin's)	30.56	39	ESE	4	bc		30.50	-0.4	41	36	+3	NE	6	b.m	5		bc	#	45	32	-
Hurst Castle ...	30.62	37	NE	3	b		30.62	+0.4	31	30	-2	NNE	1	b.m	1		b.b.m	#	41	30	-
Dungeness ...	30.57	39	ESE	5	b		30.55	-0.1	41	?	+3	ESE	6	b	5		c.b	#	44	37	-
<b>GERMANY &amp; HOLLAND.</b>																					
North Foreland																					
London (Brixton) ...	30.68	36	ESE	3	b		30.66	+0.5	35	32	+4	ESE	4	b	#		b.f.b	#	41	30	-
Oxford ...	30.71	31	E	1	b		30.71	+0.6	29	28	+4	NE	3	b	#		b	#	39	25	-
Cambridge ...	30.71	31	E	1	b		30.73	+0.6	28	28	+3	N	1	b	#		b	#	41	24	-
Yarmouth ...	30.66	40	ESE	6	bc		30.68	+0.5	40	37	+2	E	6	b	5		b.b.c	#	40	37	-
Cuxhaven ...	30.70	34	NNE	1	b		30.73	+1.1	35	34	+5	NE	1	0	#		b	#	36	30	-
Berlin ...	30.63	31	NE	5	b		30.70	+2.1	27	26	-5	NE	3	b	#		b	#	36	25	-
Wiesbaden ...	#	#	#	#	#		30.46	+0.7	31	30	-2	NE	4	bc	#		#	#	34	30	-
Munich ...	30.17	30	W	3	S		30.28	+1.2	32	32	+3	E	5	0	#		S	#	32	28	0.87
The Helder ...	30.63	38	ESE	5	b		30.71	+0.8	38	34	+4	ESE	2	c	1		b	#	39	32	-
<b>FRANCE &amp; BELGIUM.</b>																					
Brussels ...	#	#	#	#	#		30.57	?	26	23	?	NE	5	b	#		b	#	34	25	-
Cape Gris Nez ...	?	30	ESE	5	b		?	?	33	?	?	E	5	b	5		b	#	35	27	-
Paris ...	30.48	31	NNE	4	b		30.41	-0.7	29	27	+1	N	3	bc	#		b	#	33	27	-
Brest ...	30.46	38	E	3	b		30.51	+0.8	31	30	-6	ESE	1	b	3		b	#	46	28	-
Lorient ...	30.49	37	ESE	4	b		30.46	-0.1	32	32	-4	N	3	b	4		b	#	46	30	-
Rochefort ...	30.45	31	NE	4	0		30.39	-0.7	30	29	-2	NE	4	bc	#		0	#	39	28	-
Belfort ...	30.31	28	Z	0	S		30.25	-0.7	29	28	+2	NE	5	m	#		0	#	32	27	0.04
Lyons ...	30.33	31	WNW	2	0		30.25	-0.8	28	28	-2	WNW	2	0	#		0	#	33	28	-
Nice ...	29.97	40	ESE	2	c		30.01	+0.5	37	30	0	ESE	4	bc	3		c	#	52	34	-
Perpignan ...	30.16	41	W	5	b		30.23	-0.3	32	28	-8	W	1	bc	#		b	#	43	31	-
Biarritz ...	30.30	43	NNE	3	b		30.34	+0.5	31	27	-4	E	4	0	1		b	#	45	30	-
<b>PENIN- SULA.</b>																					
Corunna ...																					
Lisbon ...	30.27	52	WNW	2	c		30.21	-0.8	49	48	0	N	3	bc	#		c	#	55	48	0.04
Azores (P. Delgada)	29.69	55	WSW	4	0		29.67	-0.6	57	48	-8	WNW	3	c	3		0	#	63	50	0.12

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport 5.1 hrs;



# WEATHER CHARTS

FOR Thursday, 26<sup>th</sup> January, 1899.

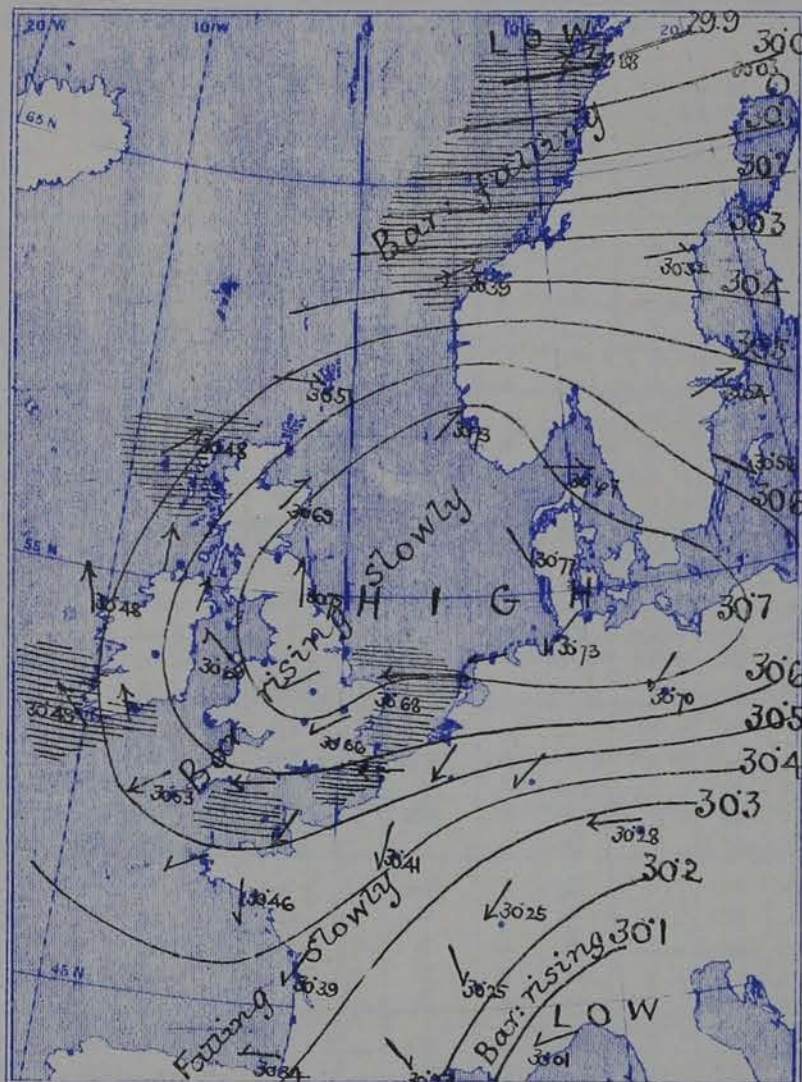
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

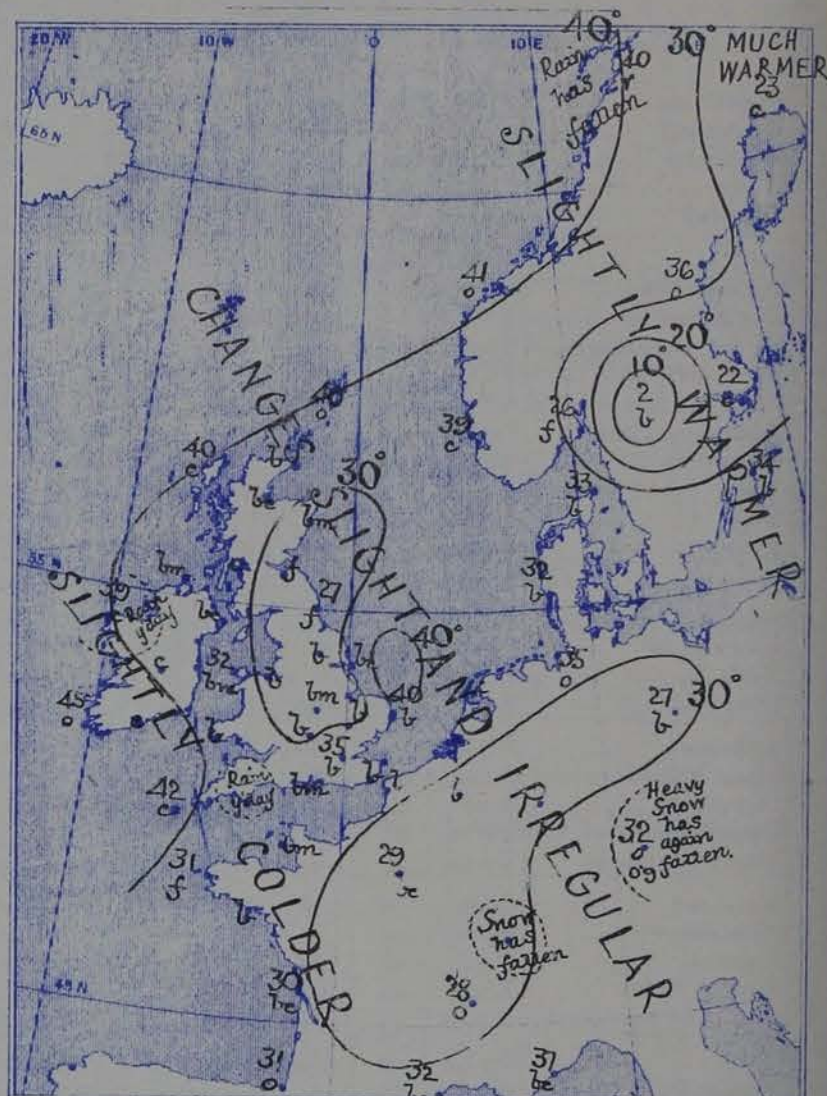


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 Denmark, North Germany, the North Sea, and the eastern and central parts of Great Britain;  
30.3 in. and upwards in an anticyclonic embrace the whole of northwestern Europe.

Lowest, 29.9 in. and less, in the north of Norway, 30.0 in. and less over the Gulf of Genoa.

Gradients moderate or slight generally. Barometer rising generally, but falling a little over the central parts of France, as well as in Norway and the south of Sweden.

## TEMPERATURE

Highest (1) 45° at Valencia (Ireland), 44° at Rochfort, 42° at Kelly, and 41° at Jersey; (2) 41° at Chirkamund, and 40° at Bodo, Lumbago 11th and Stormway.

Lowest, (1) 2° at Karlstad, 22° at Stockholm, and 23° at Haparanda; (2) 23° at Leeds and York and 26° at Loughborough.

Sharp frost was again experienced last night in many parts of the United Kingdom; in London the thermometer on the grass fell to 24°.

## WIND

E or NE over the greater part of England, France, Germany, and the Netherlands, and strong in force on several parts of our eastern and southern coasts.

Fresh to strong from the S or SE in Ireland.

SW or W over the north of Scotland and also in Scandinavia, with a gale on the Norwegian coast.

## WEATHER

Fine over Western Europe as a whole, but foggy in the northeastern part of Great Britain.

Cloudy or dull in the south of Ireland, as well as in the Shetlands, the Hebrides, and all the more northern part of Scandinavia, with rain at Bodo.

Slight rain fell yesterday at Belmullet and Pwllheli, but over our Islands generally the weather remained dry. Heavy snow has again fallen at Munich, and a smaller quantity at Belfast.

## SEA

Rough at Stormway and rather rough on the Norwegian coast, as well as off the south of Ireland and the east and southeast of England.

## 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 27<sup>th</sup> JAN<sup>y</sup>, 1899.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>2</sup> winds, fresh or strong; cloudy, rain locally.
1	SCOTLAND EAST	SW <sup>2</sup> winds, light; fair generally.
2	ENGLAND N.E.	SE <sup>2</sup> and E <sup>2</sup> winds, light, fair generally but some mist or fog.
3	ENGLAND EAST	E and NE <sup>2</sup> winds, strong on coast; fair, cold.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as No 2.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E <sup>2</sup> winds, fresh or strong; fair generally.
9	IRELAND NORTH	S <sup>2</sup> and SE <sup>2</sup> winds, strong; fair generally.
10	IRELAND SOUTH	
WARNINGS		The SOUTH CONE is still flying in district 10.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.67	43	41	WNW	2	b	1	Valencia ...	30.33	48	44	SE	7	oggf	6
Sumburgh Head ...	30.49	41	40	SSW	3	b	4	Scilly ...	30.48	44	40	SE	6	2	5
Stornoway ...	30.41	41	40	SSW	7	c	7	Jersey ...	30.56	41	38	EHE	4	6c	4
Aberdeen ...	30.63	36	32	SSW	2	bm	2	Hurst Castle ...	30.61	40	37	E	4	6	3
Shields ...	30.69	36	34	SW	1	bm	2	Dungeness ...	30.59	38	36	EHE	5	c	4
Ardrossan ...	30.61	40	39	SE	3	bf	3	North Foreland ...							
Malin Head ...	30.41	39	39	SSE	5	b	3	London (Westminster) ...	30.03	40	34	NE	2	bm	#
Belmullet ...	30.39	45	43	S	6	0	*	Yarmouth ...	30.65	40	36	E	5	6	4
Holyhead ...	30.61	39	35	SE	3	b	2	Rochefort ...	30.45	38	36	NE	4	6	#

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

Weather in morning fine over western and northern Europe as a whole, but foggy in several parts of Great Britain; cloudy on our own extreme west and south-west coasts, and also in the west of Norway, with rain at Christiansund. Cloudy or dull also in most of the central and southern countries, with rain at Breslau and Trieste, and snow at Prague and Munich. Very little change occurring over Northern Europe during day, but rain setting in on the north-west coast of Norway.

Temperatures fallen in most parts of Great Britain, and also in the central and southern parts of the Continent, but risen elsewhere. Morning readings highest 55° at Malta, 51° at Athens and Algiers and 50° at Sangre de Cristo and Athens; above 45° at most of the Mediterranean and Spanish coast stations, and also in the south of Ireland. Lowest -7° at Haparanda, +1° at Karlsbad, 2° at Uleaborg and 4° at Krasnojarsk; considerably below the freezing point in many parts of northern Europe and also in the inland parts of Great Britain. Remaining below 40° all day, at several of our own northern and central stations, and below 45° on all but our south-west coasts; exceeding 45° in the west and south of France and reaching 55° in London.

Wind light to fresh from the NE<sup>W</sup> (E to N) over the greater part of England, France, Spain, and Central Europe, but S<sup>W</sup> or SW<sup>1</sup> over central and southern Italy. Strong from the SE<sup>W</sup> or S<sup>W</sup> in Ireland, with a gale at Rochest<sup>1</sup>; SW<sup>1</sup> in Scotland as well as in Scandinavia and Finland, and strong in force in the west of Norway; N<sup>1</sup> over the central parts of Russia. Subsequently blowing a moderate gale from the S<sup>W</sup> or SE<sup>W</sup> on our extreme western coasts generally; no decided change occurring elsewhere.

Barometer highest 30.6 in. and upwards over the greater part of England, the Netherlands, the North Sea, and the east of Scotland; 30.2 in. and upwards in our anticyclone embracing the greater part of Europe. Lowest 30.0 in. and less in the north of Scandinavia, and also in a depression lying over northern Italy and the Gulf of Genoa. 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, 27<sup>th</sup> January,

1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.					
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.				Force (0 to 12.)	Max.	Min.	Rainfall.		
		Ins.	°				Ins.	Ins.	°	°	°					°	°	Ins.			
SCANDINAVIA.	Haparanda ...	29.75	20	Z	0	f	29.53	- .50	25	25	+ 2	Z	0	f	#	28	18	0.08			
	Hernösand ...	30.12	42	W	6	0	29.95	- .37	43	39	+ 7	W	4	0	#	43	32	-			
	Stockholm ...	30.39	28	W	2	c	30.22	- .32	29	27	+ 7	W	2	0	#	50	16	-			
	Wisby ...	30.48	34	W	6	b	30.34	- .22	33	32	+ 1	W	4	0	#	36	30	-			
	Karlstad ...	30.49	15	N	1	f	30.28	- .34	10	10	+ 8	W	1	0	#	#	#	-			
	Bodö ...	29.93	40	SW	6	0	29.60	- .28	41	40	+ 1	SW	6	0	3	41	37	0.51			
	Christiansund ...	30.38	42	W	7	0	30.05	- .34	42	39	+ 1	W	8	0	5	43	39	-			
	Skudesnaes ...	30.65	37	Z	0	0	30.49	- .24	38	37	- 1	Z	0	0	2	44	36	#			
	Færder (Christiania Fjord)	30.52	31	NE	1	c	30.31	- .30	29	28	+ 3	SW	1	m	1	32	25	-			
	Skagen (The Seaw)	30.56	38	W	2	0	30.39	- .28	38	38	+ 5	W	3	0	0	38	30	-			
BRITISH ISLANDS.	Fanö ...	30.73	34	W	1	b	30.58	- .19	35	34	+ 3	W	2	0	#	41	32	-			
	Sumburgh Head	30.50	40	W	2	c	30.37	- .14	43	41	+ 3	W	3	0	4	43	40	-			
	Stornoway ...	30.48	41	SW	6	c	30.44	- .04	40	39	0	SW	5	0	5	42	37	-			
	Wick ...	30.52	38	W	2	bc	30.45	- .11	39	32	- 2	W	1	0	1	40	30	-			
	Nairn ...	30.57	34	W	2	b	30.51	- .10	32	30	0	W	3	0	1	41	29	-			
	Aberdeen ...	30.66	32	SW	2	bc	30.55	- .14	18	17	- 11	W	2	0	1	41	35	-			
	Leith ...	30.71	32	Z	0	m	30.60	- .13	24	24	+ 1	W	1	m	#	37	21	-			
	Shields ...	30.72	34	S	1	f	30.60	- .15	26	26	- 1	SW	1	f	2	39	25	-			
	Spurn Head ...	30.68	42	E	3	f	30.56	- .17	39	37	- 2	E	4	c	4	44	28	0.01			
	York ...	30.73	38	N	1	0	30.61	- .16	37	35	+ 14	NE	1	0	0	39	23	-			
GERMANY & HOLLAND.	Loughborough ...	30.67	39	E	1	c	30.56	- .18	36	34	+ 10	NE	1	0	#	42	26	-			
	Ardrossan ...	30.69	39	NE	2	bc	30.59	- .11	30	29	- 7	NE	2	0	1	40	27	-			
	Malin Head ...	30.50	37	S	6	bc	30.52	- .02	32	31	- 3	S	1	0	1	39	31	-			
	Belmullet ...	30.51	38	SE	3	b	30.48	- .00	35	33	- 4	SE	3	0	#	43	31	0.01			
	Donaghadee ...	30.66	38	SW	4	bc	30.57	- .12	36	35	+ 1	SW	4	0	2	43	34	-			
	Liverpool (Bidston)	30.70	36	E	2	m	30.68	- .15	32	31	+ 4	E	1	0	#	40	28	-			
	Holyhead ...	30.64	36	E	2	b	30.52	- .17	34	32	+ 2	E	3	0	2	42	30	-			
	Parsonstown ...	30.61	35	SE	1	c	30.51	- .09	35	33	+ 1	SE	1	0	#	42	29	-			
	Valencia ...	30.48	41	ESE	4	b	30.40	- .09	41	37	- 4	ESE	4	0	4	43	27	-			
	Roche's Point ...	30.55	42	SE	5	b	30.45	- .14	43	40	- 1	SE	5	0	5	44	40	-			
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.58	39	E	4	b	30.47	- .20	35	34	0	ESE	4	0	4	41	33	-			
	Seilly ...	30.45	43	E	5	0	30.34	- .19	43	40	+ 1	E	5	0	3	45	39	-			
	Prawle Point ...	30.51	39	E	0	bc	30.37	- .22	37	36	0	E	6	0	5	42	36	-			
	Jersey (St. Aubin's)	30.42	43	NE	5	bc	30.32	- .18	39	37	- 2	E	4	0	3	45	38	-			
	Hurst Castle ...	30.52	39	NE	3	b	30.40	- .22	36	34	+ 5	NE	2	0	2	44	31	-			
	Dungeness ...	30.47	42	E	7	b	30.39	- .16	39	38	- 2	E	5	0	4	43	38	-			
	North Foreland																				
	London (Brixton) ...	30.58	38	E	3	b	30.45	- .21	35	33	0	E	4	0	3	43	34	-			
	Oxford ...	30.62	35	NE	3	b	30.51	- .20	31	31	+ 2	NE	3	0	#	42	29	-			
	Cambridge ...	30.66	36	NE	2	b	30.53	- .20	30	30	+ 2	N	2	0	#	43	26	-			
GERMANY & HOLLAND.	Yarmouth ...	30.62	42	E	6	bc	30.50	- .18	40	38	0	E	6	0	6	42	37	-			
	Cuxhaven ...	30.71	36	E	2	0	30.60	- .13	32	31	- 3	E	2	0	#	36	30	-			
	Berlin ...	30.65	30	NE	2	b	30.58	- .12	26	24	- 1	NE	2	0	#	36	25	-			
	Wiesbaden ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	-			
	Munich ...	30.28	32	E	6	0	30.27	- .01	26	26	- 6	E	3	0	#	32	25	-			
	The Helder ...	30.66	38	E	4	0	30.53	- .18	34	33	- 4	E	4	0	2	39	34	-			
	Brussels ...	#	#	#	#	#	30.43	- .14	23	22	- 3	E	2	0	#	38	22	-			
	Cape Gris Nez ...	#	39	E	6	b	#	#	27	27	- 6	E	5	0	#	43	27	-			
	Paris ...	30.37	33	N	3	b	30.30	- .11	33	31	+ 4	NE	2	0	#	36	29	-			
	Brest ...	30.41	40	NE	3	b	30.31	- .20	36	34	+ 5	E	1	0	2	45	28	-			
FRANCE & BELGIUM.	Lorient ...	30.36	41	E	5	b	30.24	- .22	35	34	+ 3	E	3	0	3	45	30	-			
	Rochefort ...	30.34	34	NE	4	0	30.27	- .12	35	34	+ 5	E	3	0	#	36	28	-			
	Belfort ...	30.23	31	E	6	0	30.26	+ .01	30	29	+ 1	E	2	0	#	33	29	0.08			
	Lyons ...	30.22	33	W	1	0	30.25	0.00	29	29	+ 1	W	1	0	#	33	28	-			
	Nice ...	30.05	#	Z	0	0	30.13	+ .12	41	35	+ 4	E	5	0	4	50	36	-			
	Perpignan ...	30.21	33	W	3	0	30.17	- .06	34	32	+ 2	W	2	0	#	37	30	-			
	Biarritz ...	30.14	32	E	3	S	30.14	- .20	27	27	- 4	E	2	0	2	34	27	-			
	Corunna ...																				
	Lisbon ...	30.01	52	NE	2	0	29.90	- .31	46	45	- 3	NE	5	0	#	55	46	-			
	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 3.1 hrs;



# WEATHER CHARTS

FOR Friday, 27<sup>th</sup> January, 1899.

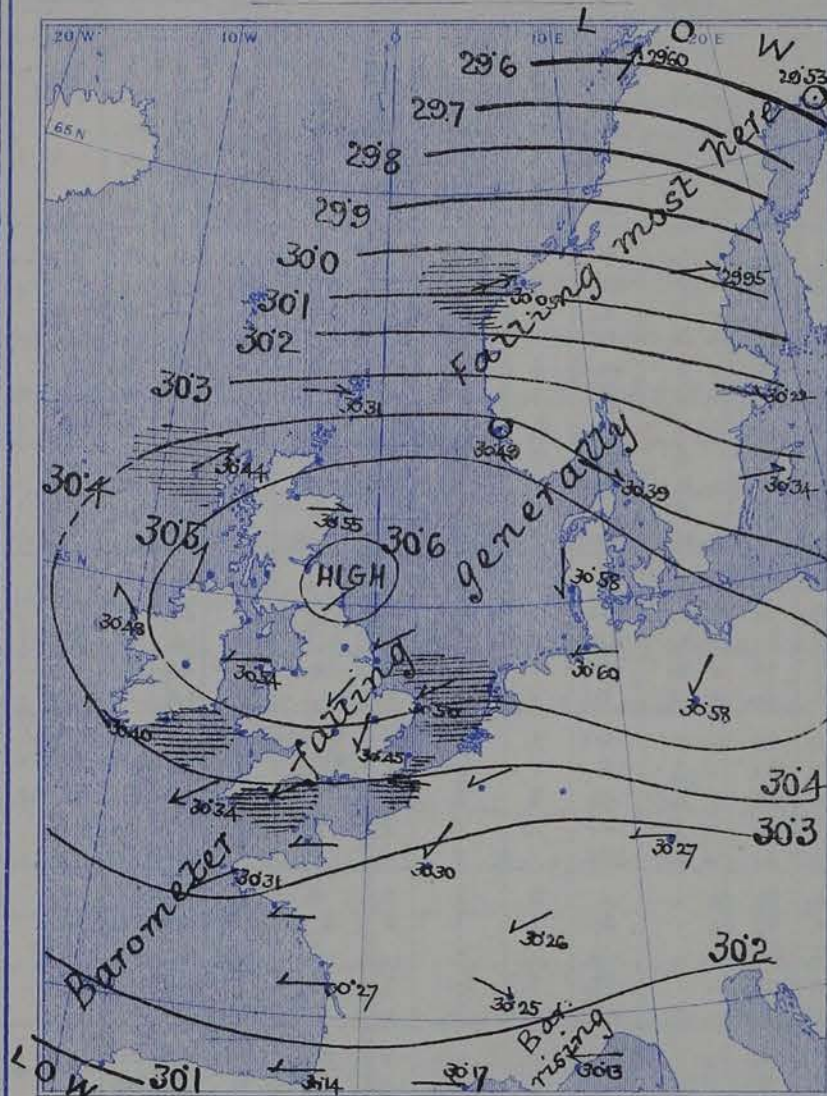
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SEA—Rough ≡≡≡ ; High ≡≡≡

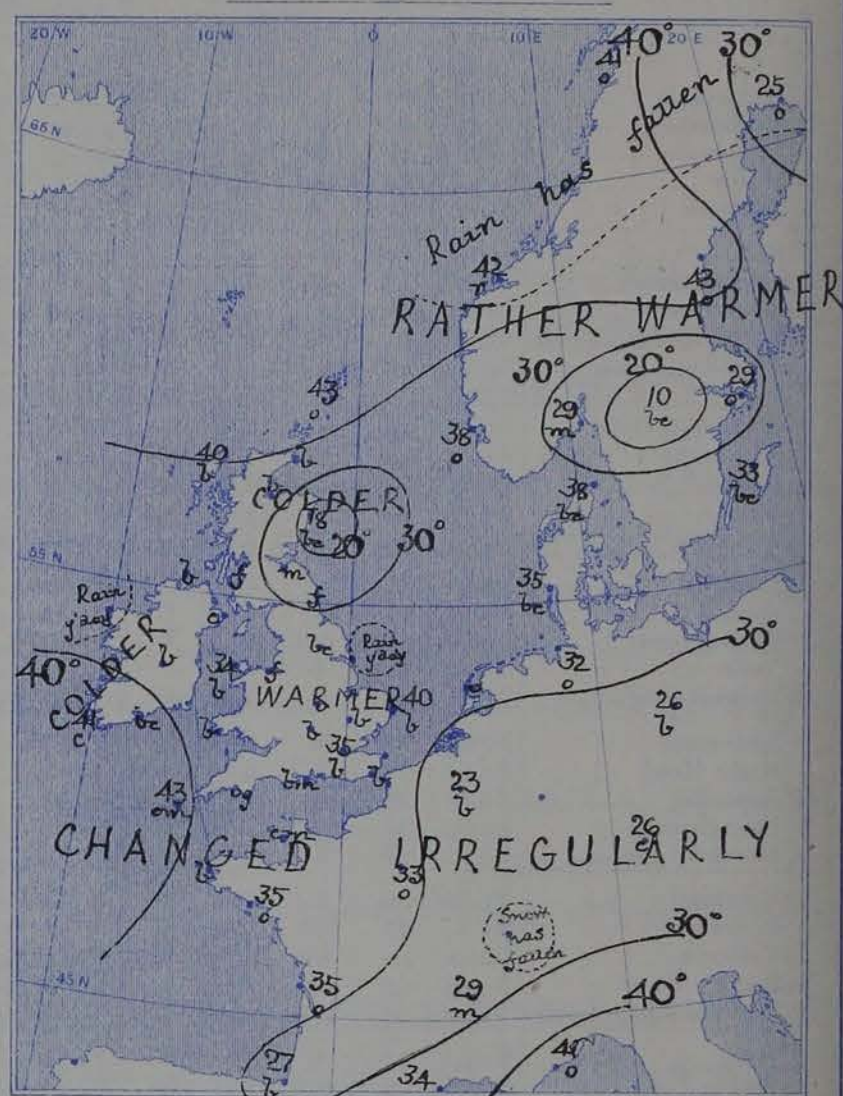


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		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	1	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82,	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	83, 90 1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in. and upwards in the northeast of England; 30.2 in. and upwards in an anticyclone embracing the whole of Western and central Europe.

Lowest, 29.6 in. and less, over the north of Scandinavia.

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

Barometer falling generally - most in Scandinavia; but inclined to rise in the east and south of France.

## TEMPERATURE

Highest (1) 43° at Lumburg Head and Helsingfors, and 41° at Christianund; (2) 43° at Rockport and Scilly, and 41° at Valencia (Ireland); (3) 41° at Rome.

Lowest, (1) 10° at Harstad; (2) 18° at Aberdeen, 24° at Leith and 26° at Shields; (3) 23° at Brussels, 26° at Berlin and Munich, and 27° at Biarritz. Frost was again experienced last night over nearly the whole Kingdom, the lowest temperatures reported being 17° at Aberdeen, and 21° at Leith.

## WIND

E or NE over England, France, Germany, and the Netherlands; and strong in force on the more exposed parts of our east and south coasts. Light to fresh from the SE in Ireland; W or SW over Scotland and Scandinavia, with a gale at Christianund.

## WEATHER

Fine over Western Europe generally, but dull at several stations in the western parts of the Channel and France, and also over the greater part of Scandinavia, with rain at Christianund.

Fog or mist is reported at several stations in the northern parts of Great Britain.

Slight rain fell yesterday at Spinn Head and Bismullet, but over the United Kingdom generally, the weather remained very dry. A little snow fell at Biarritz.

## SEA

Rough at Yarmouth and rather rough on several of the more exposed parts of our south and southeast coasts, as well as at Helsingfors, and Christianund.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be gradually breaking up, but there are at present no signs of any decided change in the weather.

# FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> JAN<sup>y</sup> 1899.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

0 SCOTLAND NORTH

SW<sup>ly</sup> and W<sup>ly</sup> winds, fresh; fair generally.

1 SCOTLAND EAST

SW<sup>ly</sup> and W<sup>ly</sup> winds, light; fair generally, but some mist or fog.

2 ENGLAND N.E.

E<sup>ly</sup> and NE<sup>ly</sup> winds, light; fair generally but some mist or fog.

3 ENGLAND EAST

Same as N° 5

4 MIDLAND COUNTIES

Same as N° 2

5 ENGLAND SOUTH

E<sup>ly</sup> and NE<sup>ly</sup> winds, strong on coast; fair, cold.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

Same as N° 2

Same as N° 5.

S<sup>ly</sup> and SE<sup>ly</sup> winds, light; fair generally.

E<sup>ly</sup> and SE<sup>ly</sup> winds, fresh; fair generally.

## WARNINGS

## NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	30.72	41	39	S	2	m	3	Valencia ...	30.48	40	41	SE	5	6	5
Sumburgh Head	30.53	40	38	W	2	o	4	Scilly ...	30.49	44	41	E	5	c	3
Stornoway ...	30.48	42	41	SW	6	c	6	Jersey ...	30.46	45	39	EHE	5	6	4
Aberdeen ...	30.68	34	32	SW	2	bm	1	Hurst Castle ...	30.58	44	40	NE	5	bm	3
Shields ...	30.76	38	35	SW	1	f	2	Dungeness ...	30.49	43	40	EHE	7	6	6
Ardrossan ...	30.68	40	38	SSE	3	6	3	North Foreland							
Malin Head ...	30.54	38	34	S	5	bc	2	London (Westminster)	30.60	43	38	EHE	4	bm	#
Belmullet ...	30.50	43	41	SSE	5	6	*	Yarmouth ...	30.64	42	39	EHE	5	bc	4
Holyhead ...	30.67	39	35	E	1	6	1	Rochefort ...	30.36	35	33	NE	4	0	#

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

*Continental Information not received*

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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



# DAILY WEATHER REPORT

for 8 a.m. on *Saturday, 28<sup>th</sup> January, 1899.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.			Rainfall.	
		At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)				Max.	Min.			
Ins.		°				Ins.	Ins.	°	°	°						°	°	Ins.			
SCANDINAVIA.	Haparanda ...	29.07	36	NNW	4	0	29.35	- 18	22	21	- 3	NNW	4	b	#	0	#	36	14	0.08	
	Hernösand ...	29.59	40	W	2	0	29.72	- 23	37	32	- 6	NNW	4	b	#	0	#	45	37	-	
	Stockholm ...	29.87	32	SW	4	c	29.82	- 40	37	34	+ 8	NNW	4	c	#	0	#	37	27	-	
	Wisby ...	30.01	36	W	6	0	29.84	- 50	38	36	+ 5	N	6	bc	#	0	#	38	30	-	
	Karlstad ...	30.00	29	Z	0	bc	29.95	- 33	33	32	+ 25	NW	1	c	#	7.30	#	#	#	-	
	Bodö ...	29.57	36	W	5	c	29.67	+ 07	34	31	- 7	W	7	bc	#	0	#	44	28	-	
	Christiansund ...	30.06	42	WSW	8	0	30.03	- 02	42	42	0	WSW	6	#	5	0	#	45	41	0.24	
	Skudesnaes ...	30.32	42	W	4	0	30.23	- 26	43	43	+ 5	NW	4	0	2	m, 0	#	43	38	#	
	Færder (Christiania Fjord)	30.10	40	WSW	4	0	29.99	- 32	38	37	+ 9	WSW	2	0	3	0	#	40	29	-	
	Skagen (The Seaw)	30.17	40	NW	4	0	30.02	- 37	41	40	+ 3	NNW	2	m	0	0	#	41	36	-	
BRITISH ISLANDS.	Fanö ...	30.39	38	WNW	4	c	30.17	- 41	41	40	+ 6	NNW	4	0	#	c	#	44	35	-	
	Sumburgh Head	30.36	45	NNW	4	0	30.30	- 07	45	43	+ 2	NW	2	0	4	0	#	45	36	-	
	Stornoway ...	30.47	37	WSW	1	bc	30.41	- 03	36	35	- 4	WSW	3	0	3	c, bc	0.0	42	32	-	
	Wick ...	30.46	33	NW	1	bc	30.39	- 06	37	36	+ 4	W	3	0	1	bc	#	42	29	-	
	Nairn ...	30.49	34	W	2	b	30.45	- 06	25	23	- 7	W	1	c	1	b	#	41	21	-	
	Aberdeen ...	30.49	27	WNW	2	bc	30.44	- 11	30	29	+ 12	NNW	3	c	1	bc	4.5	32	18	-	
	Leith ...	30.51	33	W	1	m	30.44	- 16	27	27	+ 3	W	1	f	#	m	#	39	24	-	
	Shields ...	30.51	33	SW	1	f	30.43	- 17	30	29	+ 4	W	2	f	2	f	#	37	24	-	
	Spurn Head ...	30.48	39	EHE	4	c	30.35	- 21	36	36	- 3	NNW	3	c	3	bc, c	#	40	35	-	
	York ...	30.52	36	EHE	1	b	30.41	- 20	28	28	- 9	N	1	c	#	0.6	0.3	39	27	-	
GERMANY & HOLLAND.	Loughborough ...	30.47	37	NE	2	0	30.39	- 17	33	32	- 3	N	1	c	#	c, 0.6	#	40	31	-	
	Ardrossan ...	30.50	35	Z	0	bf	30.43	- 16	31	30	+ 1	Z	0	cf	0	bf	#	38	27	-	
	Malin Head ...	30.47	35	SSE	1	bm	30.41	- 11	35	35	+ 3	SW	1	cm	0	bm	#	40	32	-	
	Belmullet ...	30.46	36	SSE	3	b	30.43	- 05	34	33	- 1	ESE	1	b	#	b	#	43	30	-	
	Donaghadee ...	30.50	39	NE	3	b	30.42	- 15	30	30	- 6	NE	3	bc	1	b	#	43	27	-	
	Liverpool (Bidston)	30.50	34	E	3	b	30.42	- 16	25	24	- 7	ESE	1	f	?	bf	#	37	23	-	
	Holyhead ...	30.44	38	EHE	3	b	30.38	- 14	34	32	0	EHE	3	bc	2	b	#	40	32	-	
	Parsonstown ...	30.44	34	NE	1	b	30.41	- 10	27	27	- 8	NW	1	b	#	b	7.2	42	25	-	
	Valencia ...	30.37	40	E	2	b	30.34	- 06	37	34	- 4	EHE	2	b	3	b	#	5.0	45	33	-
	Roche's Point ...	30.39	40	ESE	5	b	30.34	- 11	35	32	- 8	E	2	b	3	b	#	44	33	-	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	30.38	37	E	3	b	30.34	- 13	31	29	- 4	EHE	3	b	3	b	6.6	41	30	-	
	Seilly ...	30.25	43	EHE	5	om	30.21	- 13	42	40	- 1	EHE	4	cm	3	c, om	1.0	45	38	-	
	Prawle Point ...	30.31	40	EHE	5	0	30.26	- 11	36	35	- 1	EHE	5	og	4	og	#	40	35	-	
	Jersey (St. Aubin's)	30.28	40	EHE	3	ogm	30.20	- 12	39	38	0	EHE	3	cm	3	c, ogm	#	41	37	-	
	Hurst Castle ...	30.33	39	EHE	3	bm	30.27	- 13	33	32	- 3	NE	2	bm	2	bm	#	43	31	-	
	Dungeness ...	30.31	41	NE	5	bc	30.22	- 17	40	39	+ 1	EHE	5	b	4	b, bc	#	41	36	-	
	North Foreland															#					
	London (Brixton) ...	30.39	38	EHE	3	b	30.30	- 15	33	32	- 2	NE	3	b	#	b	1.6	43	30	-	
	Oxford ...	30.43	33	NE	3	0	30.35	- 16	34	33	+ 3	NE	3	0	#	b, 0	#	41	31	-	
	Cambridge ...	30.44	33	N	2	b	30.36	- 17	31	30	+ 1	N	2	b	#	b, s	6.7	44	27	0.01	
PENINSULA.	Yarmouth ...	30.41	40	NE	6	b	30.32	- 18	39	37	- 1	NE	4	bw	4	b	#	41	36	-	
	Cuxhaven ...	30.47	34	Z	0	f	30.24	- 36	33	32	+ 1	SW	1	f	#	f	#	36	28	-	
	Berlin ...	30.43	31	SE	2	#	30.27	- 31	24	23	- 2	W	2	b	#	b	#	36	24	-	
	Wiesbaden ...	#	#	#	#	#	30.23		31	29		NE	2	b	#	#	#	41	28	-	
	Munich ...	30.24	26	Z	0	c	30.15	- 12	25	25	- 1	E	3	f	#	c	#	32	23	-	
	The Helder ...	30.44	36	NE	3	b	30.30	- 23	33	33	- 1	Z	0	b	0	b	#	37	28	-	
	Brussels ...	#	#	#	#	#	30.28	- 15	19	19	- 4	EHE	1	b	#	b	#	36	18	-	
	Cape Gris Nez ...	?	30	E	3	bc	?	?	28	27	+ 1	ESE	3	m	3	bc	#	37	27	-	
	Paris ...	30.29	34	NE	2	bc	30.17	- 13	28	27	- 5	NE	2	b	#	bc	#	36	28	-	
	Brest ...	30.19	35	E	1	b	30.15	- 16	34	32	- 2	EHE	2	c	2	b	#	41	28	-	
PENINSULA.	Lorient ...	30.22	37	E	4	b	30.13	- 11	32	30	- 3	NE	5	c	4	b	#	46	30	-	
	Rocheport ...	30.18	40	E	3	b	30.07	- 20	35	34	0	E	4	0	#	b	#	46	32	-	
	Belfort ...	30.24	31	EHE	5	m	30.11	- 15	28	27	- 2	EHE	5	m	#	m	#	34	28	-	
	Lyons ...	30.23	32	NNW	1	0	30.15	- 10	32	31	+ 3	ESE	1	m	#	0	#	35	24	-	
	Nice ...	30.02	47	NE	8	0	30.06	- 07	42	39	+ 1	NE	8	r	5	0	#	50	37	0.43	
	Perpignan ...	30.07	35	W	1	r	30.01	- 16	36	35	+ 2	W	1	0	#	r	#	39	32	1.58	
	Biarritz ...	30.06	45	EHE	4	bc	29.97	- 17	28	27	+ 1	E	4	b	2	bc	#	?	27	-	
	Corunna ...															#	#				
	Lisbon ...	29.80	46	NE	5	0	29.80	- 10	45	42	- 1	NE	5	0	#	0	#	52	45	-	
	Azores (P. Delgada)	29.43	56	SSE	5	r	29.32	- 43	57	57	- 5	ESE	3	c	4	r	#	61	50	-	

For Explanation of Columns, see bottom of last page.

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

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

Bright Sunshine yesterday Southport. 2.9 hrs;



# WEATHER CHARTS

FOR Saturday, 28<sup>th</sup> January, 1899.

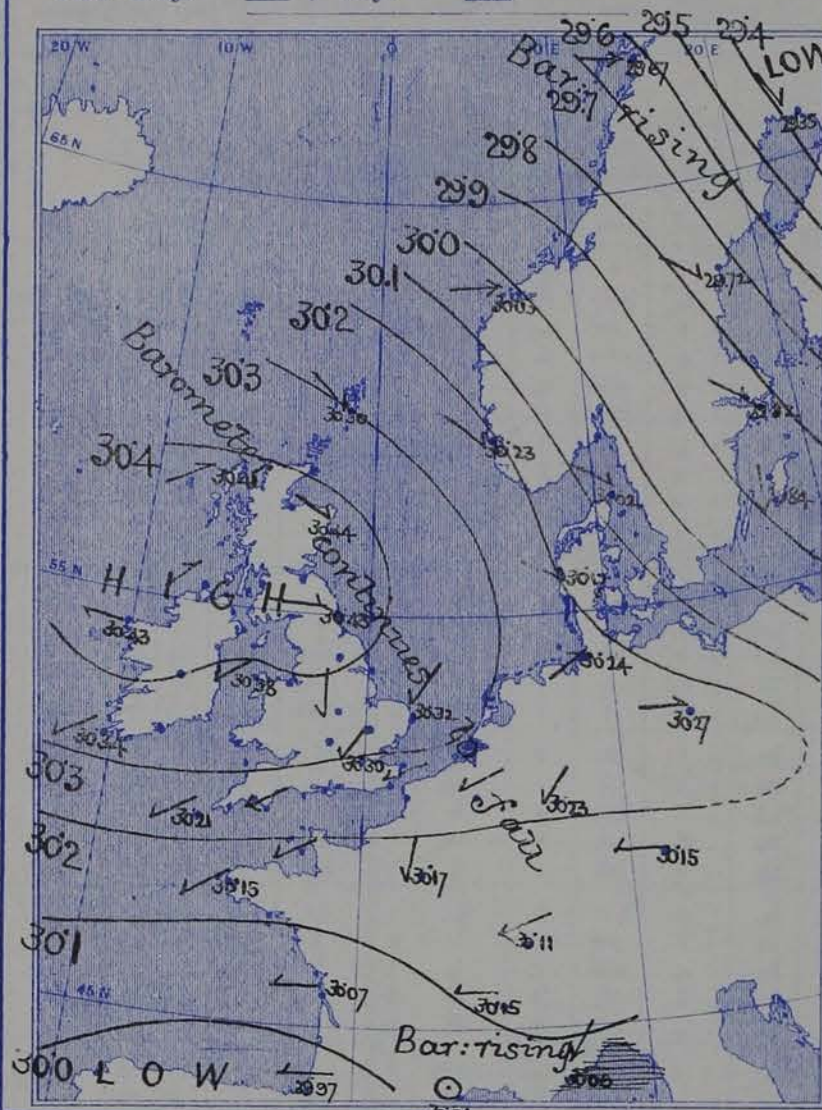
## BAROMETER, WIND AND SEA.

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 ≡≡≡

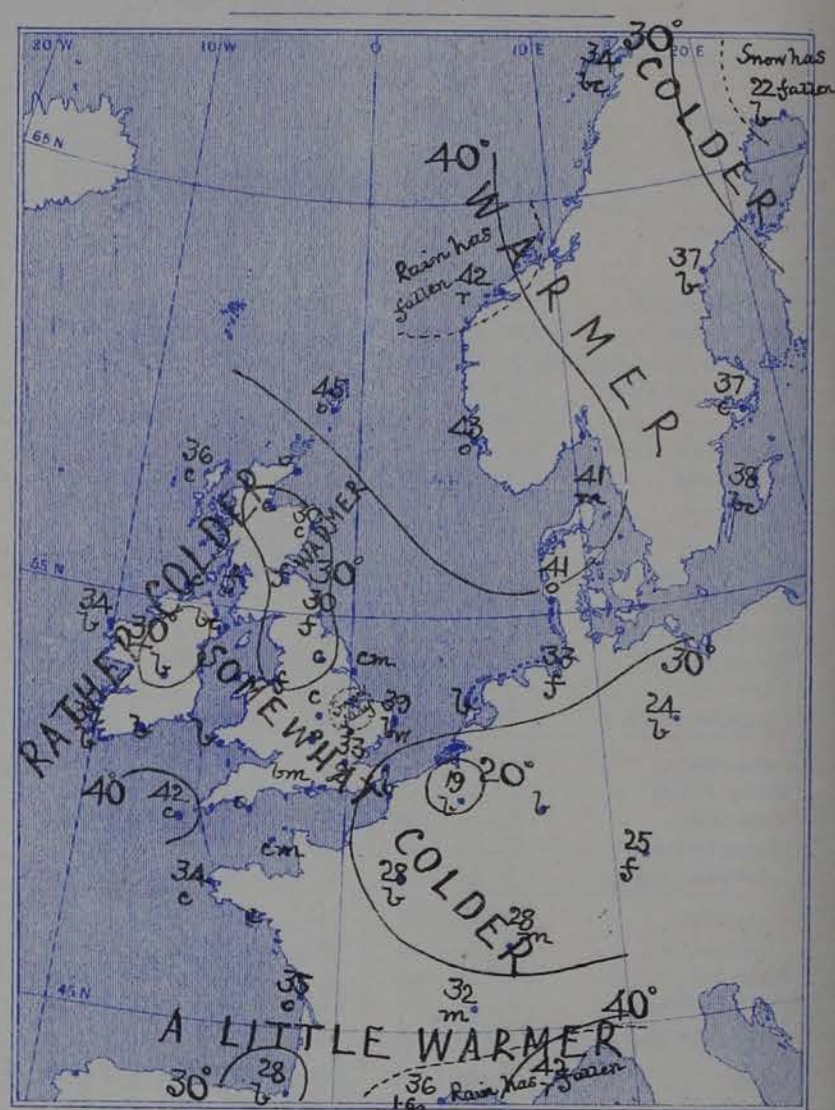


## TEMPERATURE & WEATHER.

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 JANUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90 1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards over all the more northern parts of the United Kingdom; 30.2 in. and upwards in an anticyclone covering the whole of our Islands and the neighbouring parts of the Continent.  
 Lowest, 29.4 in. and less, in Ireland; 29.8 in. and less over the southern part of the Spanish Peninsula.  
 Gradients slight generally, but moderate over the northern part of Scandinavia.  
 Barometer falling a little in most places, but rising in the north of Scandinavia and also in the southwest of France.

## TEMPERATURE

Highest, (1) 45° at Lumburg Head, 43° at Rindernaes and 42° at Christianund; (2) 45° at Lisbon and 42° at Nice; (3) 42° at Seilly 40° at Dungeness.  
 Lowest, (1) 19° at Brussels, 24° at Berlin and 25° at Munich; (2) 22° at Haparanda; (3) 25° at Nain, and 27° at Leith and Parowstovon.  
 Frost was again experienced last night in many parts of the United Kingdom, the lowest readings reported being (1) In the O'Brien 21° at Nain, 23° at Liverpool and 24° at Leith, (2) On the grass 22° at Loughborough and in London.

## WIND

Light to moderate from the E<sup>nd</sup> or NE<sup>nd</sup> over the greater part of Ireland, England, France, South Germany and the Spanish Peninsula.  
 A NE gale is reported at Kiel.  
 W or NW over Scotland, Scandinavia and Denmark, and strong in force in the west of Norway.

## WEATHER

Fine over Western Europe as a whole, but foggy at several of our own northern stations.  
 Dull in the extreme north of Scotland and also in Norway, Denmark, and the south of France, with rain at Christianund and Kiel.  
 Light snow has fallen at Cambridge, but over our Islands generally the weather has remained dry. Mock fairs and a lunar halo were seen yesterday at Wick.

## SEA

Moderate to smooth generally, but rather rough at Christianund and also at Kiel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone continues to give way, but the barometric fall is at present too slight and uniform to lead to any immediate change in the weather.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> JAN<sup>y</sup> 1899.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W <sup>ly</sup> winds, moderate or fresh; cloudy, rain locally.
1	SCOTLAND EAST	W <sup>ly</sup> winds, light; fair generally, but some mist or fog.
2	ENGLAND N.E.	N <sup>ly</sup> and NW <sup>ly</sup> winds, light, fair generally, but some mist or fog.
3	ENGLAND EAST	NE <sup>ly</sup> winds, light or moderate; fair generally, but some mist or fog.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as No. 1.
7	ENGLAND N.W.	E <sup>ly</sup> winds, light; fair generally, but some mist or fog.
8	ENGLAND S.W.	E <sup>ly</sup> winds, moderate or fresh; fair generally.
9	IRELAND NORTH	Same as No. 7.
10	IRELAND SOUTH	

NONE ISSUED.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	30.41	42	40	2	0	m	2	Valencia ...	30.37	44	40	E	4	b	4
Sumburgh Head ...	30.35	45	43	W	4	0	4	Scilly ...	30.28	43	40	EHE	5	c	3
Stornoway ...	30.45	42	41	WSW	3	c	3	Jersey ...	30.29	40	38	EHE	3	c	3
Aberdeen ...	30.51	32	30	WNW	2	bcm	1	Hurst Castle ...	30.35	43	40	EHE	5	bcm	3
Shields ...	30.55	35	34	SW	1	f	2	Dungeness ...	30.33	41	40	NE	5	b	4
Ardrossan ...	30.54	38	37	2	0	ff	0	North Foreland							
Malin Head ...	30.49	40	39	SE	2	b	1	London (Westminster)	30.40	44	39	EHE	4	b	#
Belmullet ...	30.47	43	39	S	2	b	*	Yarmouth ...	30.44	41	38	EHE	5	b	5
Holyhead ...	30.48	40	38	E	3	b	2	Rochefort ...	30.23	44	41	E	3	b	#

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

Weather in morning fine over western and central Europe generally, but foggy at several of our own northern stations, and dull over the western part of the English Channel and France. Dull in Scandinavia and Russia, with rain at Christiansund; cloudy also over Italy, France the south of France, and the northeast of Spain, with rain at Liria and Rome, and snow at Barcelona. Heavy rain falling later in the extreme south of France and a little snow at Cambridge; much sun and a hazy halo seen at Wick.

Temperature risen over England and France, and also over Scandinavia. Denmark and Russia, fallen in most other countries. Morning readings highest 55° at Athens, 53° at Malta, and 51° at Liria, above 45° at most of the Mediterranean and Adriatic stations. Lowest 10° at Archangel, 10° at Karlsbad, and 18° at Lemberg; (2) 18° at Aberdeen and 24° at Leith; below the freezing point in many parts of our Islands and northern and central Europe. Daily maxima below 40° at some of our own northern stations, and below 45° over the United Kingdom generally; below 40° also in many parts of France, but thermometer reaching 50° at Nice and 52° at Lisbon.

Wind E or NE over England, France, and the central and southern parts of the Continent generally, and strong in force at some of our own eastern and southern stations. Light to fresh from the SE in Ireland, W in Scotland, Scandinavia, Denmark, and Russia, and strong to a gale in force in the west of Norway. No important change occurring later.

Barometer highest 30.6 in; and upwards in the northeast of England and also in some parts of Germany and Eastern Austria; 30.2 in; and upwards in our anticyclone embracing the greater part of our Islands and the Continent. Lowest 29.6 in; and less, in a depression over the north of Scandinavia, 29.9 in; and less, in another disturbance off the southwest of Portugal. Barometer falling over Western Europe during day, and anticyclone beginning to break up.

### EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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

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

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on Sunday 29<sup>th</sup> January, 1899.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Hours of Bright Sun- shine.	TEMP.				
				At 32° and M.S.L.	Dry Bulb.		Dirac.	Force (0 to 12.)	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.				Dirac.	Force (0 to 12.)	Max.	Min.	Rainfall.
SCANDINAVIA.		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
Haparanda	...	29.35	25	N	4	c	29.62	+ .27	25	24	+ 3	N	2	0	#	c	#	36	16	-	
Hernösand	...	29.60	36	NW	6	0	29.75	+ .03	29	28	- 8	NW	4	0	#	0	#	43	?	-	
Stockholm	...	29.64	37	W	2	0	29.70	- .12	29	27	- 8	N	4	0	#	0	#	39	30	-	
Wisby	...	29.72	38	WNW	4	c	29.67	- .17	35	32	- 3	N	6	0	#	c	#	38	30	-	
Karlstad	...	29.73	35	L	0	0	29.84	- .11	31	28	- 2	NW	2	0	#	0	#	#	#	-	
Bodö	...	29.71	36	NW	6	c	29.83	+ .16	36	33	+ 2	N	4	0	#	c	#	36	30	-	
Christiansund	...	29.91	42	WSW	4	r	29.93	- .10	39	38	- 3	L	0	0	#	r	#	43	39	0.55	
Skudesnaes	...	30.09	44	NNW	4	0	30.00	- .23	42	42	- 1	NNW	4	0	#	0	#	45	39	#	
Færder (Christiania Fjord)	...	29.80	41	W	2	0	29.88	- .11	38	35	0	N	2	0	#	0	#	41	36	-	
Skagen (The Seaw)	...	29.81	41	NW	1	c	29.86	- .17	40	38	- 1	NE	4	0	#	c	#	43	36	-	
Fanö	...	29.96	40	WNW	4	0	29.84	- .23	37	36	- 4	NW	4	0	#	0	#	41	37	-	
Sumburgh Head	...	30.24	44	NW	2	0	30.15	- .15	44	44	- 1	NNE	1	0	#	0	#	45	43	0.01	
Stornoway	...	30.36	42	W	2	0	30.24	- .17	42	41	+ 6	N	2	0	#	0	#	42	34	-	
Wick	...	30.30	37	W	2	0	30.20	- .19	38	37	+ 1	WNW	3	0	#	0	#	40	34	0.02	
Nairn	...	30.36	36	W	2	0	30.25	- .20	38	37	+ 13	W	1	0	#	0	#	39	24	0.01	
Aberdeen	...	30.32	37	NW	3	0	30.21	- .23	38	37	+ 8	NW	4	0	#	0	#	38	30	0.02	
Leith	...	30.34	39	W	1	m	30.18	- .26	36	36	+ 9	L	0	#	m	#	36	28	0.03		
Shields	...	30.31	36	NNW	2	om	30.14	- .29	39	39	+ 9	N	3	0	#	om	#	39	30	0.04	
Spurn Head	...	30.23	42	N	3	0	30.05	- .30	42	42	+ 6	N	3	0	#	om	#	42	35	0.10	
York	...	30.29	37	N	1	0	30.11	- .30	37	37	+ 9	N	1	0	#	0	#	37	28	0.01	
Loughborough	...	30.28	36	NW	1	0	30.11	- .28	36	35	+ 3	WNW	1	0	#	om	#	37	33	-	
Ardrossan	...	30.35	37	NE	1	of	30.22	- .21	35	34	+ 4	L	0	0	#	of	#	38	30	-	
Malin Head	...	30.34	39	SW	1	om	30.22	- .19	43	42	+ 8	E	3	0	#	om	#	43	35	-	
Belmullet	...	30.35	35	ENE	2	b	30.24	- .19	34	33	0	ENE	1	0	#	b	#	40	30	0.01	
Donaghadee	...	30.32	41	NE	3	bc	30.21	- .21	42	40	+ 12	NE	5	0	#	bc	#	42	29	-	
Liverpool (Bidston)	...	30.31	34	L	0	0	30.16	- .26	35	33	+ 10	NW	1	0	#	0	#	36	24	-	
Holyhead	...	30.29	38	NE	2	f	30.17	- .24	39	38	+ 5	NE	1	0	#	f	#	40	32	-	
Parsonstown	...	30.34	38	NE	1	0	30.22	- .19	38	38	+ 1	L	0	0	#	of	#	34	25	-	
Valencia	...	30.29	38	ENE	2	bm	30.18	- .16	29	27	- 8	ENE	1	0	#	c	#	44	26	-	
Roche's Point	...	30.28	38	N	1	b	30.17	- .17	35	33	0	N	3	0	#	m	#	42	31	-	
Pembroke (St. Ann's Hd.)	...	30.23	35	ENE	3	b	30.14	- .20	37	36	+ 6	NE	3	0	#	m	#	40	30	-	
Seilly	...	30.15	42	NE	4	0	30.06	- .15	39	36	- 3	ENE	3	0	#	c	#	44	25	-	
Prawle Point	...	30.16	38	ENE	5	c	30.12	- .14	38	34	- 4	NE	4	0	#	c	#	39	34	-	
Jersey (St. Aubin's)	...	30.08	42	E	4	bm	29.99	- .21	38	37	- 1	E	3	0	#	bm	#	45	35	-	
Hurst Castle	...	30.18	36	NE	1	bm	30.06	- .24	39	38	+ 6	NE	1	0	#	om	#	42	32	-	
Dungeness	...	30.14	42	NE	4	c	30.01	- .21	41	41	+ 1	NNE	2	0	#	r	#	44	40	0.03	
North Foreland	...																				
London (Brixton)	...	30.21	37	NE	3	b	30.09	- .21	37	36	+ 4	NE	1	0	#	agdm	#	44	33	0.01	
Oxford	...	30.23	37	NE	3	0	30.10	- .25	36	36	+ 2	NNE	2	0	#	r	#	41	33	0.01	
Cambridge	...	30.24	36	N	3	om	30.08	- .28	36	36	+ 5	N	1	0	#	fg	#	42	29	0.07	
Yarmouth	...	30.19	43	N	3	c	30.03	- .29	40	39	+ 1	NW	2	0	#	cur	#	43	39	0.02	
Cuxhaven	...	30.07	41	W	2	m	29.83	- .41	41	40	+ 8	NW	2	0	#	c	#	41	33	0.16	
Berlin	...	30.06	33	W	2	0	29.80	- .47	36	35	+ 12	W	3	0	#	r	#	37	24	0.04	
Wiesbaden	...	#	#	#	#	#									#	#	#	#	#		
Munich	...	30.07	24	SW	2	f	30.02	- .13	20	20	- 5	W	3	0	#	f	#	28	19	-	
The Helder	...	30.12	42	NNE	1	0	29.98	- .32	42	41	+ 9	NNW	2	0	#	r	#	45	38	-	
Brussels	...	#	#	#	#	#	30.06	- .22	23	23	+ 4	ESE	1	0	#	bc	#	35	19	-	
Cape Gris Nez	...	?	37	ESE	3	c	?	?	37	36	+ 9	SSE	1	0	#	m	#	41	28	-	
Paris	...	30.12	30	SSE	2	b	30.06	- .11	28	28	0	ENE	2	0	#	0	#	39	25	-	
Brest	...	30.08	39	ENE	1	0	29.97	- .18	35	34	+ 1	NE	1	0	#	0	#	41	32	-	
Lorient	...	30.02	34	E	4	c	29.94	- .19	31	?	- 1	NE	3	0	#	m	#	39	30	-	
Rochefort	...	29.96	40	E	2	0	29.88	- .17	35	34	0	E	2	0	#	0	#	41	32	-	
Belfort	...	30.11	28	ENE	3	om	30.06	- .05	26	26	- 2	ENE	3	0	#	m	#	31	25	-	
Lyons	...	30.11	34	NW	1	0	29.97	- .18	32	32	0	NNE	1	0	#	r	#	37	32	0.04	
Nice	...	30.09	46	E	4	c	30.02	- .04	39	35	- 3	E	5	0	#	bc	#	50	37	-	
Perpignan	...	30.01	40	SW	2	b	29.83	- .18	38	37	+ 2	SW	2	0	#	bc	#	48	36	-	
Biarritz	...	29.91	42	E	3	c	29.85	- .02	41	39	+ 13	S	3	0	#	0	#	45	28	0.12	
Corunna	...																				
Lisbon	...	29.90	46	NE	3	0	29.88	+ .08	46	45	+ 1	NE	4	0	#	0	#	48	45	-	
Azores (P. delgada)	...	29.57	54	NNE	4	r	29.62	+ .30	56	54	+ 2	NNE	3	0	#	r	#	59	54	0.24	

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, 29<sup>th</sup> January, 1899.

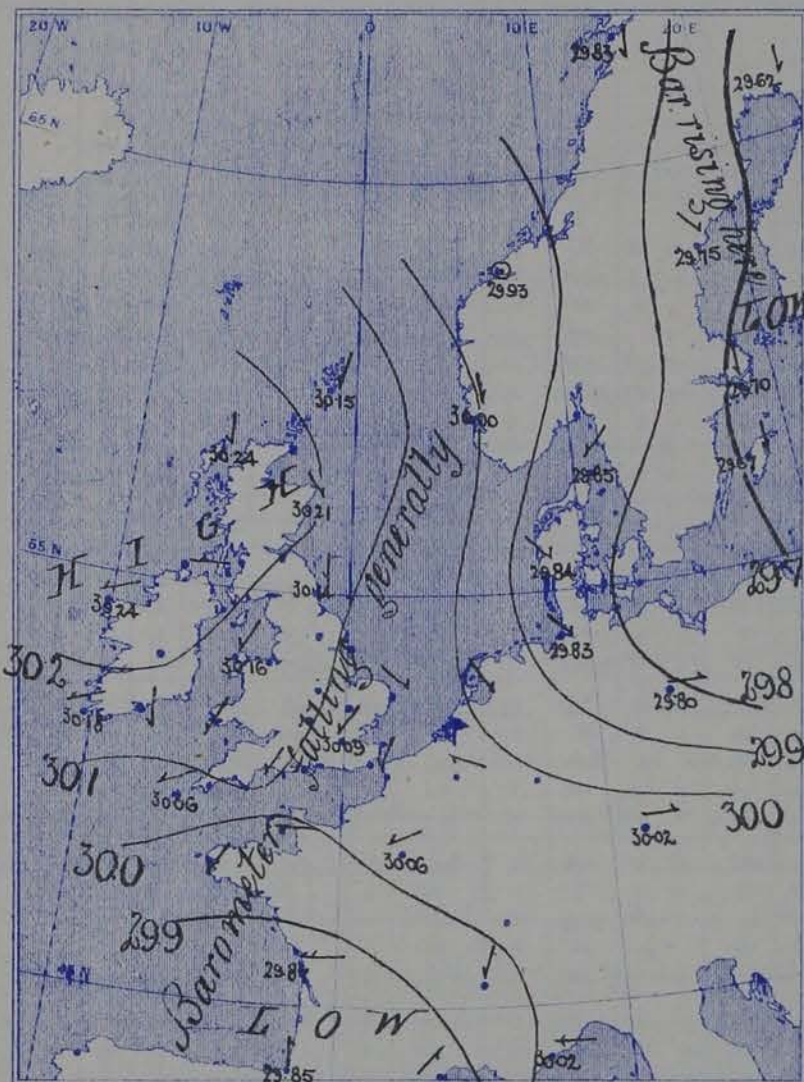
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡≡≡ ; High ≡≡≡

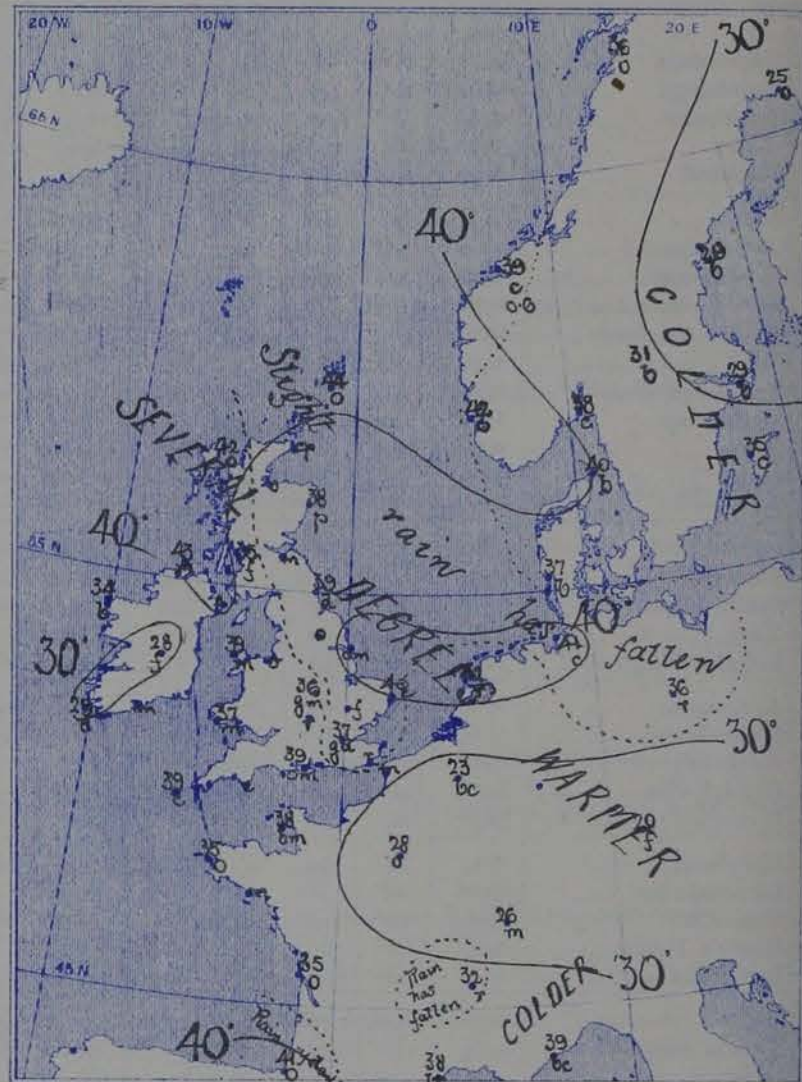


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	—	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	5.48	—	—
Donaghadee	29.854	39.7	38.0	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78,	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	84, 90	—	—	—	—	—
							1875, 76, 77, 82,	25	1894	3.63	—	—
							83, 90	—	—	—	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.2 ins. and upwards over Ireland and Scotland, 30.1 ins. and upwards in anastylone covering all but the S.E.<sup>m</sup> parts of our Islands.  
 Lowest 29.7 ins. and less over the Gulf of Bothnia and the N.<sup>m</sup> parts of the Baltic; 29.9 ins. and upwards over the Spanish Peninsula and the S.W.<sup>m</sup> parts of France.  
 Gradients slight. Barometer falling generally, but rising again in Sweden.

## TEMPERATURE

Highest (1) 46° at Lisbon, and 41° at Biarritz; (2) 44° at Sumburgh H<sup>t</sup>, and 42° at Skudesnæs; (3) 42° at Spinn H<sup>t</sup> and the Helder.  
 Lowest (1) 20° at Munich, and 23° at Brussels; (2) 25° at Haparanda, and 28° at Hernösand; (3) 28° at Parsonstown, and 29° at Valencia (Ireland).

## WIND

The maxima registered over our Islands yesterday were below 40° at many of the W.<sup>m</sup> and N.<sup>m</sup> stations, and below 45° at all stations excepting Sumburgh H<sup>t</sup> and Jersey.  
 N. over Scandinavia, Denmark and the northern and eastern parts of St. Britain, light to moderate in force generally, but strong at Wisby; NW.<sup>m</sup> or W.<sup>m</sup> in Germany.  
 Light from the E. or NE. over the west and south of our Islands and the greater part of France, but S.<sup>m</sup> at Biarritz and Perpignan.

## WEATHER

Cloudy or dull over W.<sup>m</sup> Europe generally, with a little rain in many parts of St. Britain; rain was falling also at the Helder, Berlin and Lyons.  
 Fine in Sweden and Denmark, and also in the extreme S. of France.  
 Since yesterday morning slight rain has fallen over the N.<sup>m</sup> and E.<sup>m</sup> parts of St. Britain generally, and somewhat larger amounts at some stations in Germany & the S. of France.

## SEA

Slight or smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 30<sup>TH</sup> JANUARY 1899.

## DISTRICTS.

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

## FORECASTS.

NONE ISSUED

## DISTRICTS.

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

## FORECASTS.

NONE ISSUED

## WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.20	44	43	NW	4	0	2	Valencia ...	30.30	43	38	ESE	1	6	2
Sumburgh Head ...	30.27	45	44	NW	2	0	4	Scilly ...	30.18	43	39	ENE	4	c	3
Stornoway ...	30.37	42	41	W	2	0	2	Jersey ...	30.13	44	40	ENE	4	bc	3
Aberdeen ...	30.36	37	34	WNW	2	og	1	Hurst Castle ...	30.20	42	39	NE	4	bcw	3
Shields ...	30.35	38	37	NW	2	f	2	Dungeness ...	30.16	44	42	NE	5	6	4
Ardrossan ...	30.38	38	37	NNE	1	of	1	North Foreland ...							
Malin Head ...	30.37	39	38	W	1	c	1	London (Westminster) ...	30.25	41	38	NE	3	bcw	#
Belmullet ...	30.38	40	39	ENE	2	6	*	Yarmouth ...	30.24	43	41	NE	4	c	4
Holyhead ...	30.32	40	38	NE	3	f	2	Rochefort ...	30.06	38	37	E	3	0	#

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

Weather in morning fine over W<sup>m</sup> and central Europe as a whole, but foggy in the north of England and the south of Scotland as well as in many parts of Germany. ~~Dull in the extreme N. of Scotland as well as in many parts of Germany.~~ Dull in the extreme N. of Scotland and the W. of Norway with rain at Christiansund; fine in Sweden, dull in N<sup>m</sup> Russia, with snow in several places. Dull also over Italy, the Spanish Peninsula and the extreme S. of France, with rain at Nice and Florence. A little rain falling at several of our own N<sup>m</sup> and E<sup>m</sup> stations.

Temperature risen over Denmark and Germany, as well as over the greater part of Russia and the S. of Scandinavia, fallen elsewhere. Morning readings highest 54° at La Caille, and 53° at Algiers, Tunis, Spas and Malta; above 45° at several of the Mediterranean and Spanish coast stations; above 40° in the Shetlands and the W. of Norway. Lowest (1) 2° at Archangel, and 2° at Uleaborg; (2) 19° at Brussels, Cracow and Hermannstadt, and 21° at Lemberg; below the freezing point over central Ireland and the N<sup>m</sup> and central parts of Gt. Britain. Remaining below 40° all day at several of our own W<sup>m</sup> and N<sup>m</sup> stations, and below 45° in most other parts of the Kingdom. Exceeding 45° in the S. of France, and reaching 50° at Nice.

Wind W<sup>m</sup> over Scotland and also over Norway, Denmark, the Baltic, and the central and southern parts of Russia, and strong in force in the West of Norway, blowing a gale from the N<sup>m</sup> at Kuopio and Helsingfors. Light to fresh from the E<sup>m</sup> or NE<sup>m</sup> over England, Ireland, France, S. Germany and the Spanish Peninsula; a NE<sup>m</sup> gale reported at Nice. Light to moderate from the S<sup>m</sup> or SE<sup>m</sup> over the southern parts of Italy and the Adriatic. No important change occurring during day.

Barometer highest 30.4 ins. and upwards over all the more N<sup>m</sup> parts of our Islands; 30.3 ins. and upwards over Turkey and the E<sup>m</sup> parts of Austria and Germany; 30.2 ins. and upwards in an anticyclone covering the greater part of W<sup>m</sup>, central and SE<sup>m</sup> Europe. Lowest 29.1 ins. and less in a well marked depression over N<sup>m</sup> Russia; 29.8 ins. and less in a shallow disturbance off the S. of Spain. Anticyclone giving way gradually during day, and new depression approaching the Norwegian coasts from the W<sup>m</sup>.

### 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 30<sup>th</sup> January, 1899.*

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.	TEMPERATURE.	WIND.									TEMP.		
	At 32° and M.S.L.	Dry Bulb.	Dirac.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	Max.	Min.	Rainfall.
SCANDINAVIA.	Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
	Haparanda ...	29.64	14	NE	4	29.41	-21	16	16	-9	Z	0	bc	#	6	#	27	9	-
	Hernösand ...	29.85	18	Z	0	29.65	-10	24	23	-5	Z	0	o	#	6	#	36	18	-
	Stockholm ...	29.87	27	N	2	29.86	+16	15	14	-14	W	2	b	#	6	#	36	15	-
	Wisby ...	29.81	32	N	8	29.89	+22	30	27	-5	N	4	c	#	c	#	36	28	-
	Karlstad ...	29.94	25	NW	2	29.88	+04	15	14	-16	SE	2	b	#	6	#	#	#	-
	Bodo ...	29.76	35	W	4	29.33	-50	35	33	-1	S	2	m	1	o	#	37	32	-
	Christiansund ...	29.95	39	WSW	2	29.67	-26	40	38	+1	WSW	6	c	4	o	#	40	37	0.12
	Skudesnaes ...	29.95	38	N	2	29.95	-05	34	34	-8	Z	0	b	1	bc	#	43	34	#
	Færder (Christiania Fjord)	29.96	36	W	1	29.87	-01	33	32	-5	W	2	c	3	o	#	38	33	-
BRITISH ISLANDS.	Skagen (The Scaw)	29.97	38	Z	0	29.94	+09	35	34	-5	SSW	2	c	0	c	#	41	37	-
	Fanø ...	29.99	33	NE	1	29.99	+15	35	34	-2	NNE	1	c	#	6	#	43	32	-
	Sumburgh Head	30.09	43	NNW	1	29.96	-19	42	42	-2	NNW	3	o	4	c	#	45	39	0.03
	Stornoway	30.17	42	Z	0	30.08	-16	39	38	-3	NNW	2	o	2	om, o	0.0	45	36	-
	Wick ...	30.15	38	NNW	2	30.08	-12	36	34	-2	NNW	2	op	2	c	#	43	35	0.02
	Nairn ...	30.18	40	W	1	30.09	-16	37	35	-1	W	1	o	1	o	#	41	34	0.01
	Aberdeen ...	30.15	36	NW	3	30.08	-13	37	35	-1	NW	2	og	2	bc	2.7	42	35	0.01
	Leith ...	30.15	39	Z	0	30.08	-10	36	36	0	NNW	1	f	#	o	#	42	32	-
	Shields ...	30.08	42	NNE	2	30.04	-10	39	39	0	NNW	3	o	4	pd, o	#	42	36	0.18
	Spurn Head ...	30.00	43	NE	5	29.98	-07	40	39	-2	NE	3	o	4	op	#	45	39	0.08
GERMANY & HOLLAND.	York ...	30.06	43	N	1	30.02	-09	40	40	+3	N	1	c	#	c, om	0.2	45	36	0.04
	Loughborough ...	30.03	42	NE	2	29.99	-12	38	38	+2	NE	2	cm	#	om, gfr	#	43	36	0.17
	Ardrossan ...	30.15	37	Z	0	30.10	-12	37	36	+2	Z	0	of	0	of	#	40	34	-
	Malin Head ...	30.15	41	SE	1	30.09	-13	40	40	-3	SSW	1	r	1	bc, og	#	44	34	0.04
	Belmullet ...	30.16	38	ENE	1	30.11	-13	39	38	+5	E	1	o	#	o, br	#	40	34	0.01
	Donaghadee ...	30.15	44	NE	4	30.09	-12	40	40	-2	W	3	o	2	o	#	44	39	0.01
	Liverpool (Bidston)	30.08	40	N	1	30.05	-11	38	37	+3	NNE	1	o	1	orm	#	41	33	0.05
	Holyhead ...	30.09	43	NE	3	30.04	-13	43	42	+4	NE	3	c	2	opd	#	44	38	-
	Parsonstown ...	30.14	?	Z	0	30.08	-14	35	35	+7	Z	0	of	#	of	0.0	37	27	0.01
	Valencia ...	30.08	37	Z	0	30.03	-15	36	35	+7	Z	0	omg	2	cm	3.2	45	28	-
FRANCE & BELGIUM.	Roche's Point ...	30.08	38	N	3	30.04	-13	42	40	+7	NNE	3	c	3	m	#	42	34	-
	Pembroke (St. Ann's Hd.)	30.02	41	ENE	3	29.99	-15	40	38	+3	ENE	3	og	3	o	0.0	42	36	0.01
	Scilly ...	29.97	45	ENE	3	29.90	-16	44	40	+5	NE	5	c	3	o, rsp	3.6	46	38	0.01
	Prawle Point ...	29.97	38	NNE	3	29.91	-21	38	37	+3	NNE	4	c	3	c, om	#	42	35	0.01
	Jersey (St. Aubin's)	29.91	42	ENE	3	29.85	-14	40	39	+2	NE	2	omd	2	bcn	#	46	37	0.02
	Hurst Castle ...	29.96	40	NE	1	29.89	-17	40	39	+1	NE	3	o	2	o, om	#	42	38	-
	Dungeness ...	29.91	42	NNE	2	29.86	-15	40	40	-1	E	3	op	3	op	#	42	39	0.21
	North Foreland															#			
	London (Brixton) ...	29.96	42	NE	1	29.90	-19	39	38	+2	NE	2	cg	#	orf, og	0.0	43	37	0.10
	Oxford ...	29.99	40	N	1	29.96	-14	37	37	+1	NNE	1	op	#	of	#	41	36	0.11
PENIN- SULA.	Cambridge ...	29.99	41	NNE	3	29.96	-12	39	38	+3	N	3	omp	#	od	0.0	43	35	0.03
	Yarmouth ...	29.96	42	NNE	3	29.93	-10	41	39	+1	ENE	4	bc	4	c	#	44	39	0.02
	Cuxhaven ...	29.89	39	N	1	29.95	+12	33	33	-8	ENE	1	b	#	b	#	41	32	-
	Berlin ...	29.86	36	NW	2	29.95	+15	30	29	-6	Z	0	f	#	o	#	37	30	0.04
	Wiesbaden ...	#	#	#	#	29.92		31	30		SW	1	o	#	si	#	31	28	-
	Munich ...	29.92	24	E	4	29.85	-17	22	22	+2	W	2	f	#	f	#	28	19	-
	The Helder ...	29.91	40	N	1	29.95	-03	33	33	-9	ENE	2	f	1	b	#	45	33	-
	Brussels ...	#	#	#	#	29.91	-15	33	33	+10	NE	1	f	#	f	#	34	23	0.04
	Cape Gris Nez ...	?	41	ESE	1	?	?	37	36	0	E	1	o	1	m	#	43	34	-
	Paris ...	29.89	30	NE	3	29.83	-23	30	30	+2	ESE	2	s	#	r	#	30	28	0.16
FRANCE & BELGIUM.	Brest ...	29.88	40	NE	1	29.85	-12	38	37	+3	NE	1	o	1	r	#	46	34	-
	Lorient ...	29.87	34	Z	0	29.82	-12	39	39	+8	N	3	o	3	m	#	39	31	-
	Rochefort ...	29.84	38	NE	3	29.76	-12	37	37	+2	E	3	o	#	o	#	41	32	-
	Belfort ...	29.85	27	ENE	5	29.86	-20	28	28	+2	Z	0	s	#	m	#	33	24	-
	Lyons ...	29.85	32	NW	1	29.91	-06	28	28	-4	SSE	1	f	#	s	#	37	27	0.24
	Nice ...	29.92	45	Z	0	29.78	-24	43	40	+4	E	1	c	3	c	#	52	39	0.35
	Perpignan ...	29.87	44	NW	2	29.87	+04	31	31	-7	SW	1	bc	#	o	#	52	30	-
	Biarritz ...	29.82	46	WSW	5	29.78	-07	44	41	+3	SSW	3	o	2	r	#	48	41	0.04
	Corunna ...															#			
	Lisbon ...	29.72	50	NE	4	29.59	-29	48	47	+2	NE	5	r	#	o	#	54	46	0.04
PENIN- SULA.	Azores (P. Delgada)	29.80	56	NE	4	29.80	+18	53	49	-3	NNE	3	c	2	c	#	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. 0.0 hrs;



# WEATHER CHARTS

FOR Monday, 30<sup>th</sup> January, 1899.

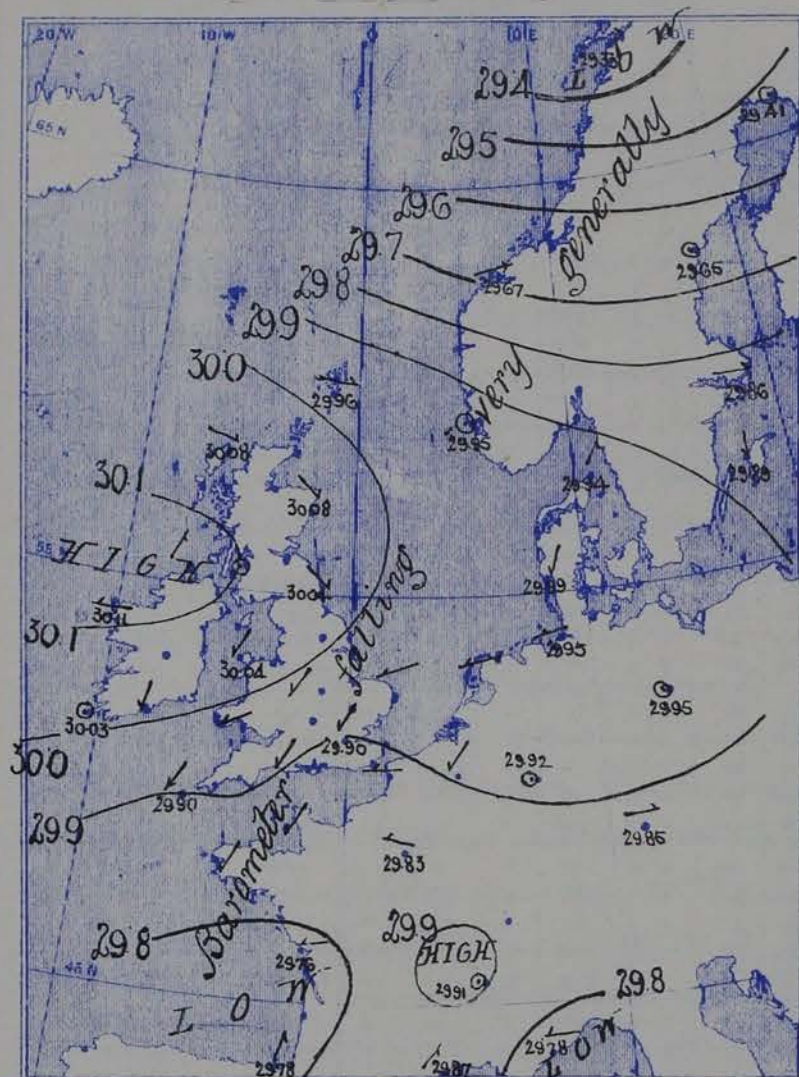
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ : High ≡

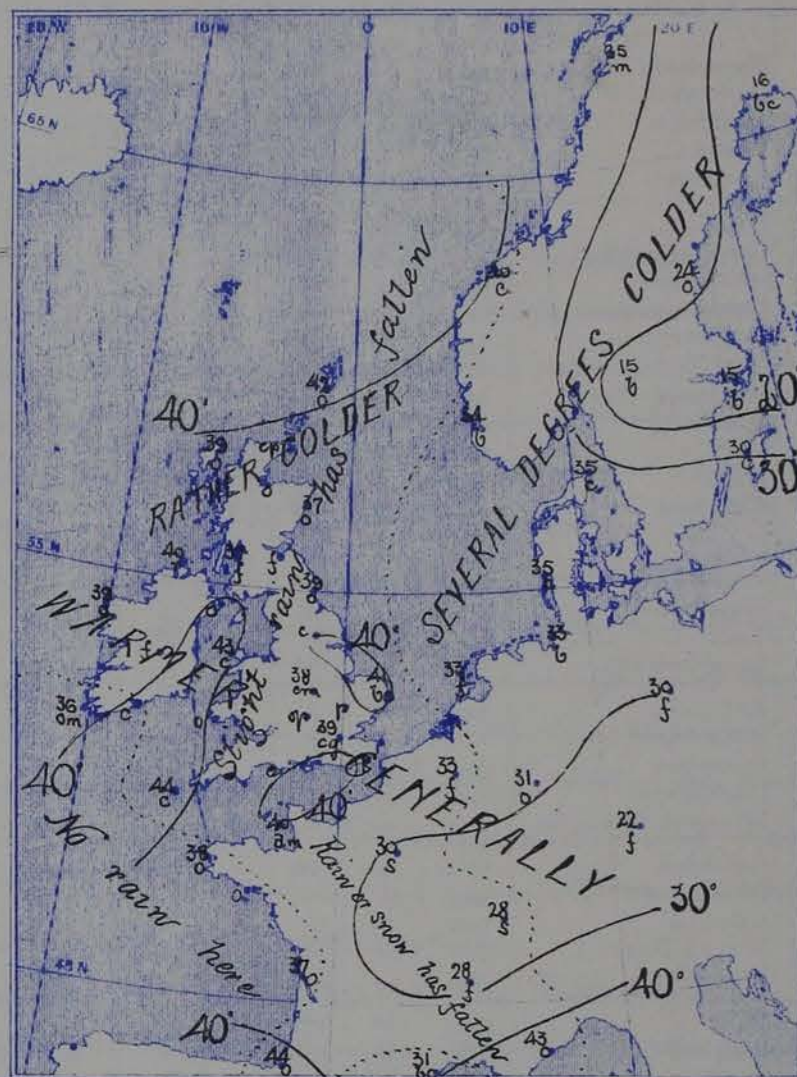


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95. (Inches.)	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95. (Inches.)	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 91	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	5.48	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	—	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3†	8†
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

\* 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 30.0 ins. to 30.1 ins. or rather more in an anticyclone lying over Ireland and all the more N. parts of Gr. Britain.

Lowest 29.4 ins. and less in a depression lying over the N. of Scandinavia, 29.6 ins. and less in another disturbance lying to the SW. of Portugal.

Gradients slight. Barometer falling in most parts of W. Europe - briskly in the N. of Scandinavia, rising slightly in the SE. of England, and also over the Netherlands, Denmark, and N. Germany.

Highest (1) 48 at Lisbon, 44 at Biarritz and 43 at Nice; (2) 44 at Seilly, and 43 at Holyhead; (3) 42 at Sumburgh H.

## TEMPERATURE

Lowest (1) 15° at Stockholm and Karlstad, and 16° at Haparanda; (2) 22° at Munich, and 28° at Belfort and Lyons; lowest in our Islands 35° at Parsonstown.

The maxima registered yesterday were below 45° in many parts of the United Kingdom; at Parsonstown the thermometer did not exceed 37°.

## WIND

NE. over England, the south of Ireland, the Netherlands and the north of France; light in force generally, but fresh at the mouth of the Channel.

Light from the W. or NW. in Scotland; calm or variable at most of the Scandinavian stations, but strong from SW. at Christianund.

## WEATHER

Cloudy or dull over W. Europe as a whole, with fog over central Ireland and the S. of Scotland, as well as in many parts of France, Germany and the Netherlands. Showers were falling in the central and SE. parts of England, as well as on some parts of our extreme N. and NW. coasts, rain at Lisbon and snow at Paris and Belfort.

Fine in the S. of Scandinavia, and also in the extreme S. of France.

A little rain fell yesterday in many parts of our Islands, France and Germany.

## SEA

Slight or smooth on nearly all coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone continues to give way, and a new depression is advancing E. across the N. of Scandinavia, while another disturbance has appeared off the Portuguese coasts. Shallow secondary systems are likely to be developed over various parts of our Islands, so that changeable, showery weather is still probable in most districts.

## FORECASTS

For the 24 hours ending at NOON on 31<sup>ST</sup> JANUARY 1899.

### DISTRICTS.

### FORECASTS.

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

NW<sup>ly</sup> winds, moderate or fresh; cloudy, showery.

N<sup>ly</sup> and NW<sup>ly</sup> winds, light, cloudy, showery.

NE<sup>ly</sup> to N<sup>ly</sup> winds, light, changeable, some cold showers.

### DISTRICTS.

### FORECASTS.

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

N<sup>ly</sup> or NE<sup>ly</sup> winds, light; cloudy, some fog, rain locally.

NE<sup>ly</sup> winds, moderate; cloudy, local showers.

Light variable breezes, cloudy, rain locally.

Same as No. 8.

None issued.

### WARNINGS

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.		THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes ...	30.01	42	40	N	4	c	2	Valencia ...								
Sumburgh Head								Scilly ...								
Stornoway ...	30.21	45	44	NE	1	om	1	Jersey ...	29.94	42	39	NE	3	bc	3	
Aberdeen ...								Hurst Castle ...								
Shields ...								Dungeness ...	29.95	42	42	NNE	2	of	1	
Ardrossan ...								North Foreland								
Malin Head ...	30.16	44	42	E	2	bc	1	London (Westminster)								#
Belmullet ...	30.18	40	37	ESE	2	o	*	Yarmouth ...								
Holyhead ...								Rochefort ...	29.88	37	36	NE	3	o	*	

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

*Continental information not received.*

### SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 22<sup>ND</sup> TO 28<sup>TH</sup> JAN. 1899.

At the beginning of the week barometrical pressure was high over S<sup>W</sup> Europe and low in the W. and N., the centres of two well marked depressions being found respectively over Finland and the N. of Ireland. Strong SW winds, reaching the force of a gale in places, were reported in most of the NW<sup>W</sup> and N<sup>W</sup> countries, but in Scotland and Norway the wind was NE, the weather being in a squally, unsettled state generally, with frequent falls of rain in our Islands, and snow in Sweden & N<sup>W</sup> Russia.

On the 22<sup>nd</sup> and 23<sup>rd</sup> the depressions both moved E<sup>W</sup> and gradually filled up, while a large anticyclone began to spread over W<sup>W</sup> Europe from the Atlantic, the latter system afterwards increasing both in size and height, and eventually embracing nearly the whole of Europe. The weather consequently improved very materially, while the wind shifted to the E<sup>W</sup> or NE<sup>W</sup> over England and the W<sup>W</sup> and central parts of the Continent, and to the W<sup>W</sup> in Scotland and Scandinavia. Temperature also fell steadily, sharp frost being experienced in most places, and especially in Scotland, where the thermometer on the night of the 26<sup>th</sup> fell below 20°. Towards the close of the week the anticyclone began to break up, while a large depression moved E<sup>W</sup> across the N<sup>W</sup> parts of Scandinavia, causing strong W winds in that region with some rain and snow. In our Islands, however, the weather remained fair and dry until quite the end of the period.

In the S. of France some very heavy falls of rain occurred both on the 23<sup>rd</sup> and the 27<sup>th</sup>; the unsettled weather being due to shallow depressions which passed over N<sup>W</sup> Italy and the Gulf of Genoa. In the latter instance the depression was extremely shallow and ill defined.

### 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 *Tuesday 31<sup>st</sup> January,* 1899.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather	BAROMETER.	TEMPERATURE.			WIND.		Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.					
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.				Force (0 to 12.)	Max.	Min.	Rainfall.		
		Ins.	°				Ins.	Ins.	°	°	°						°	°	Ins.		
SCANDINAVIA.	Haparanda ...	29.05	18	SE	4	S	29.21	- .20	18	17	+ 2	SE	2	0	#	S	#	19	9	0.12	
	Hernösand ...	29.34	35	W	4	b	29.30	- .35	33	32	+ 9	W	4	b	#	b	#	36	14	-	
	Stockholm ...	29.56	31	W	2	0	29.47	- .39	23	22	+ 8	W	2	b	#	0	#	32	12	-	
	Wisby ...	29.69	32	W	4	S	29.55	- .34	33	32	+ 3	NNW	4	b	#	S	#	33	27	0.04	
	Karlstad ...	29.62	28	NW	2	b	29.56	- .32	11	11	- 4	N	2	b	#	b	#	#	#	-	
	Bodö ...	29.20	36	W	4	b	29.29	- .04	30	26	- 5	NNE	4	b	1	b	#	37	28	-	
	Christiansund ...	29.66	37	WSW	6	r	29.36	- .31	36	35	- 4	W	6	r	5	r	#	40	34	0.43	
	Skudesnaes ...	29.87	37	NW	2	c	29.63	- .32	37	36	+ 3	Z	0	0	2	r, c	#	41	34	#	
	Færder (Christiania Fjord)	29.67	35	W	2	b	29.56	- .31	32	30	- 1	NE	1	b	1	b	#	37	32	-	
	Skagen (The Scaw)	29.70	29	NW	2	b	29.58	- .36	35	34	0	W	1	b	0	b	#	39	30	-	
BRITISH ISLANDS.	Fanö ...	29.87	37	W	2	b	29.69	- .30	37	35	+ 2	WNW	4	c	#	b	#	39	35	-	
	Sumburgh Head	29.93	40	N	1	0	29.52	- .42	42	40	0	WNW	4	0	4	0	#	43	39	0.13	
	Stornoway ...	30.02	40	W	3	0	29.73	- .35	37	36	- 2	W	3	0	3	0	0.0	43	33	-	
	Wick ...	30.00	39	NW	3	0	29.68	- .40	38	35	+ 2	WNW	5	0	3	0	#	42	34	0.05	
	Nairn ...	30.03	39	Z	0	0	29.76	- .33	34	32	- 3	W	1	0	1	0	#	42	30	-	
	Aberdeen ...	30.02	37	W	1	og	29.75	- .33	35	32	- 2	W	2	c	2	og	0.0	40	35	-	
	Leith ...	30.04	39	WNW	1	0	29.78	- .30	37	34	+ 1	WNW	1	om	#	0	#	39	36	-	
	Shields ...	30.01	40	N	3	op	29.81	- .23	37	36	- 2	NW	1	m	3	op	#	42	36	0.08	
	Spurn Head ...	29.94	41	NE	3	b	29.76	- .22	40	39	0	N	2	cv	2	b, p	#	43	39	0.05	
	York ...	29.98	41	NE	1	r	29.80	- .22	37	36	- 3	N	1	0	#	o, c, r	0.9	44	36	0.03	
GERMANY & HOLLAND.	Loughborough ...	29.97	40	ENE	1	0	29.79	- .20	36	36	- 2	NW	1	agm	#	om, c, od	#	41	36	0.01	
	Ardrossan ...	30.04	39	Z	0	of	29.80	- .30	37	36	0	WNW	2	b, m	1	of	#	41	32	-	
	Malin Head ...	30.02	41	S	1	or	29.80	- .29	38	37	- 2	SSW	1	omg	1	c, or	#	43	37	0.01	
	Belmullet ...	30.04	41	ENE	1	0	29.84	- .27	39	38	0	ENE	1	0	#	0	#	43	36	0.01	
	Donaghadee ...	30.03	42	ENE	5	c	29.81	- .28	41	39	+ 1	NNW	4	c	2	c	#	43	39	0.02	
	Liverpool (Bidston)	29.99	39	NNE	2	0	29.81	- .24	37	35	- 1	Z	0	0	?	gd, o	#	40	36	-	
	Holyhead ...	29.99	43	NE	3	0	29.80	- .24	40	39	- 3	NE	2	om	1	of, o	#	44	39	-	
	Parsonstown ...	30.00	40	NE	1	0	29.81	- .27	36	35	+ 1	Z	0	0	#	0	0.0	42	34	-	
	Valencia ...	29.96	40	E	1	b	29.74	- .29	42	37	+ 6	E	3	og	3	e, b	1.2	47	35	-	
	Roche's Point ...	29.94	42	ENE	4	r	29.76	- .28	40	39	- 2	E	3	0	3	r	#	45	39	0.02	
FRANCE & BELGIUM.	Pembroke (St. Ann's Hd.)	29.94	41	ENE	4	c	29.79	- .20	38	36	- 2	E	3	og	2	c	0.1	42	37	-	
	Scilly ...	29.84	44	NE	4	0	29.66	- .24	42	39	- 2	E	5	0	3	0	0.0	45	38	-	
	Prawle Point ...	29.88	40	NNE	5	c	29.69	- .22	38	37	0	NE	4	c	3	c, p	#	42	37	0.01	
	Jersey (St. Aubin's)	29.80	44	ENE	3	og	29.66	- .19	39	37	- 1	ENE	4	omg	3	cm, og	#	45	37	0.01	
	Hurst Castle ...	29.86	43	ENE	2	0	29.73	- .16	34	32	- 6	NNE	2	b, m	2	cm, o	#	44	33	-	
	Dungeness ...	29.86	41	ENE	4	0	29.72	- .14	37	35	- 3	E	3	b	2	0	#	44	35	0.01	
	North Foreland																				
	London (Brixton) ...	29.90	39	NE	2	cm	29.76	- .14	34	33	- 5	NE	2	0	#	ad, c, b	0.1	44	32	0.02	
	Oxford ...	29.93	38	NE	2	0	29.77	- .19	35	35	- 2	NNE	1	og	#	c, o	#	42	33	-	
	Cambridge ...	29.94	37	NNE	1	b	29.78	- .18	33	32	- 6	N	1	om	#	b	1.6	46	29	-	
PENIN- SULA.	Yarmouth ...	29.90	41	ENE	4	b	29.74	- .19	39	37	- 2	ENE	3	c	3	b	#	42	36	0.09	
	Cuxhaven ...	29.91	32	Z	0	f	29.66	- .29	33	32	0	SW	1	m	#	f	#	37	28	-	
	Berlin ...	29.93	31	Z	0	b	29.80	- .15	34	24	- 6	SW	2	f	#	b	#	36	23	-	
	Wiesbaden ...	#	#	#	#	#	29.75	- .17	32	32	+ 1	SE	1	0	#	#	#	36	30	-	
	Munich ...	29.86	23	Z	0	0	29.71	- .14	23	23	+ 1	E	3	f	#	0	#	27	21	-	
	The Helder ...	29.93	32	Z	0	m	29.75	- .20	29	28	- 4	SSE	1	m	1	m	#	34	27	-	
	Brussels ...	#	#	#	#	#	29.75	- .16	20	20	- 3	NE	1	f	#	f	#	35	29	-	
	Cape Gris Nez ...	?	36	E	1	m	?	?	30	29	- 7	E	1	f	1	m	#	43	28	-	
	Paris ...	29.84	32	NE	2	0	29.69	- .24	30	30	0	ENE	2	0	#	0	#	40	30	0.04	
	Brest ...	29.79	42	NE	1	0	29.64	- .21	36	35	- 2	E	3	b	3	0	#	45	32	-	
GERMANY & HOLLAND.	Lorient ...	29.76	42	ENE	4	c	29.62	- .20	34	32	- 5	E	3	b	2	c	#	46	34	-	
	Rocheport ...	29.71	37	NE	2	0	29.61	- .15	36	35	- 1	NE	3	0	#	0	#	39	32	0.04	
	Belfort ...	29.85	37	ENE	4	m	29.67	- .19	27	27	- 1	ENE	5	m	#	m	#	33	26	0.12	
	Lyons ...	29.85	31	NE	1	f	29.68	- .23	28	28	0	WNW	1	f	#	f	#	32	27	-	
	Nice ...	29.75	45	E	1	c	29.62	- .16	42	40	- 1	E	2	0	3	c	#	34	29	-	
	Perpignan ...	29.76	43	E	2	0	29.58	- .29	41	40	+ 10	W	2	0	#	0	#	48	31	-	
	Biarritz ...	29.69	48	W	2	c	29.50	- .28	40	38	- 4	E	3	c	2	c	#	52	37	-	
	Corunna ...																				
	Lisbon ...	29.40	52	E	4	r	29.37	- .22	51	49	+ 3	NNW	4	0	#	r	#	54	48	0.95	
	Azores (P. Delgada)	29.55	57	WSW	3	b	29.55	- .25	54	48	+ 1	WNW	5	c	5	b	#	61	54	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 Tuesday, 31<sup>st</sup> January, 1899.

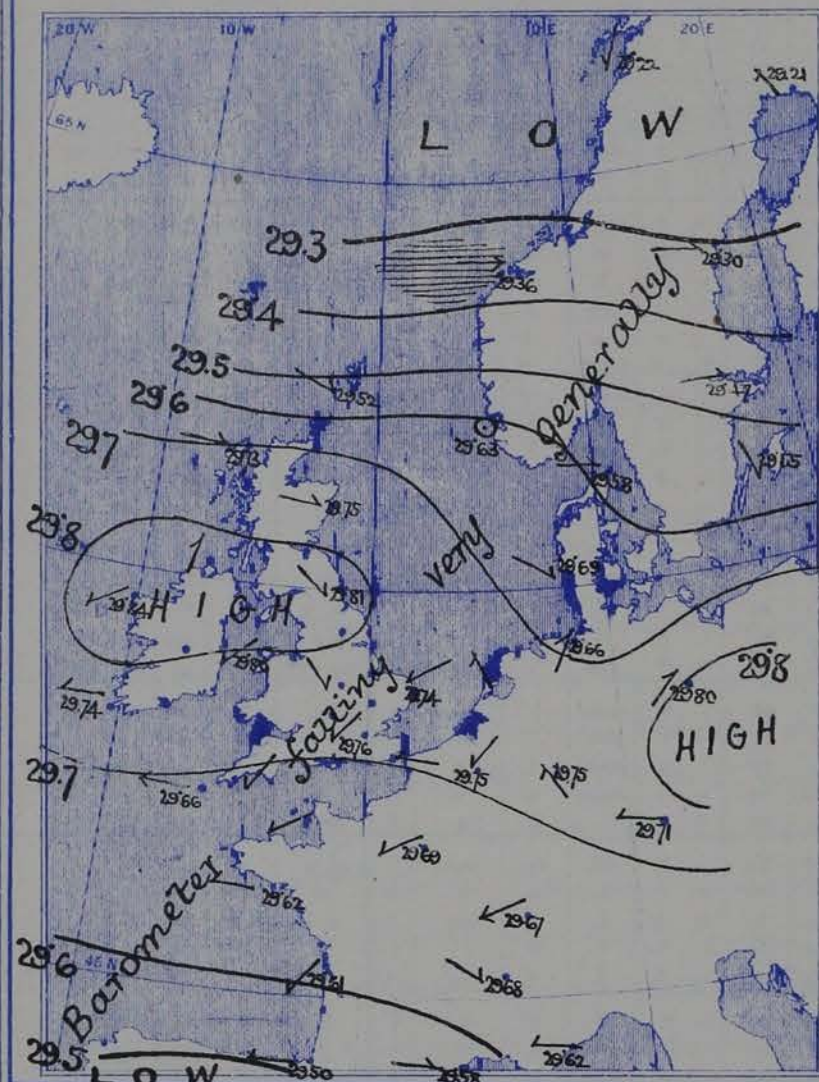
## BAROMETER, WIND AND SEA.

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

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

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

SEA—Rough ≡ : High ≡

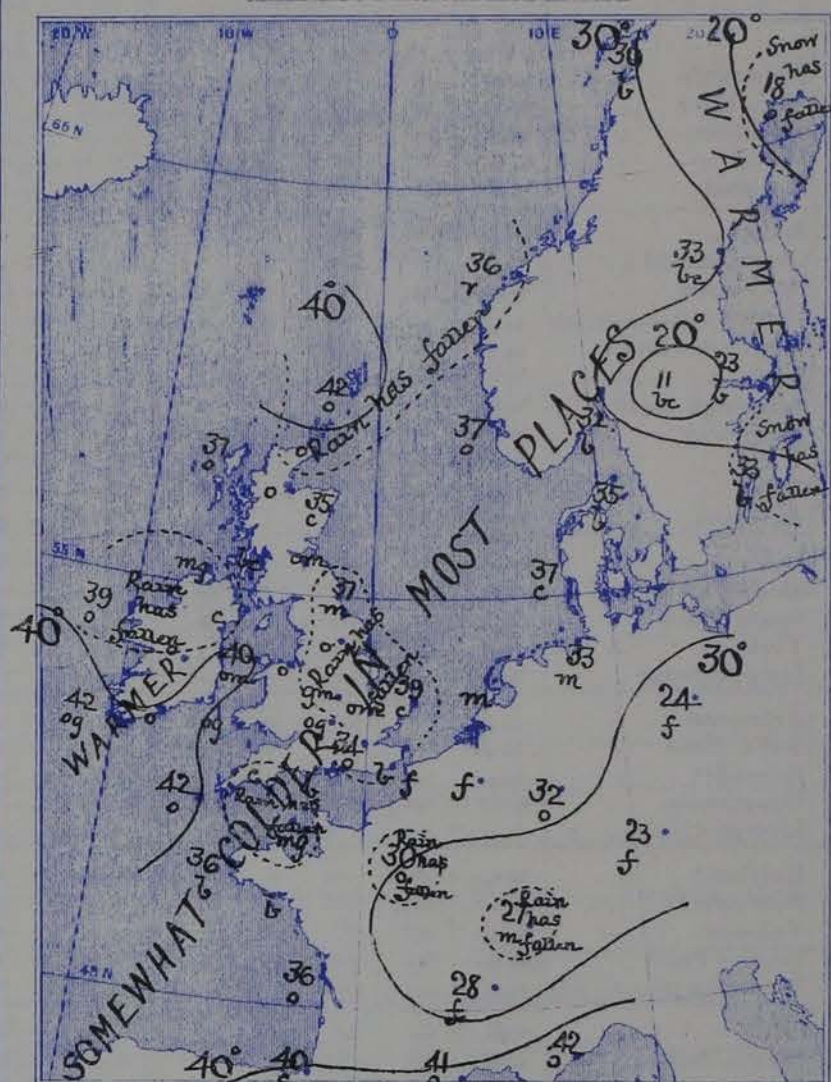


## TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

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



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

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.					Hours.	Per cent. of possible.
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.			
	(Inches.)									(Inches.)		
Sumburgh Head	29.676	39.4	38.0	42.5	35.2	51	1880, 82, 87	19	1881	3.85	—	—
Stornoway	29.688	39.1	38.2	42.9	34.0	55	1890	11	1881	5.17	29.2	13
Wick	29.715	37.9	36.6	42.0	32.9	57	1889	—4	1881	2.24	—	—
Nairn	29.744	36.9	35.4	42.0	32.2	59	1887	5	1881, 95	1.98	—	—
Aberdeen	29.786	36.9	35.2	42.0	32.8	58	1889, 92	4	1881	2.38	52.6	23
Leith	29.821	38.2	36.7	43.9	33.3	57	1872, 80, 88,	9	1881	1.78	—	—
Shields	29.871	37.7	36.5	42.7	33.5	58	1880	6	1881	1.72	—	—
Spurn Head	29.911	37.3	36.3	41.2	34.0	54*	1884, 88	13*	1881	1.38	—	—
York	29.922	36.2	35.2	42.2	31.9	58	1872	3	1881	1.84	30.2	12
Loughborough	29.958	35.8	34.8	42.5	31.7	57*	1888, 94	2*	1881	2.01	—	—
Ardrossan	29.834	39.5	38.4	43.7	35.7	53	1873, 75, 92	12	1881	3.89	—	—
Malin Head	29.795	40.6	39.0	45.0	37.6	—	—	—	—	5.48	—	—
Belmullet	29.830	42.3	41.0	46.4	38.7	—	—	—	—	—	—	—
Donaghadee	29.854	39.7	38.9	44.2	35.8	55	1875, 80, 89, 92	14	1881	2.90	—	—
Holyhead	29.897	41.3	40.0	45.1	38.2	55	1873	20	1894	3.26	—	—
Liverpool	29.918	38.1	36.5	43.0	34.7	57	1877, 90	9	1881	2.18	—	—
Parsonstown	29.895	38.3	37.3	45.0	33.6	57	1880	6	1881, 94	2.99	50.8	21
Valencia	29.894	44.0	42.7	49.0	39.8	56	1876, 78	20	1894	6.31	56.1	22
Roche's Point	29.909	42.7	41.4	47.3	38.9	57	1889	20	1894	5.33	—	—
Pembroke	29.932	42.2	40.8	45.1	39.0	52	1874, 75, 77, 78, 84, 90	19	1881, 94	3.71	53.6	21
Scilly	29.960	46.0	44.4	48.5	42.3	55	1875, 76, 77, 82, 83, 90	25	1894	3.63	—	—
Prawle Point	29.991	41.3	40.3	45.7	37.0	56*	1883, 95	17*	1881	2.92	—	—
Jersey	30.012	41.5	40.0	45.6	37.9	57	1877	12	1891	3.21	71.2	27
Hurst Castle	29.991	39.6	38.8	44.4	35.6	56	1876, 83, 90	15	1881	2.86	—	—
Dover	29.992	38.4	37.4	42.9	34.7	55	1878	11	1893	2.47	—	—
LONDON	29.991	37.1	36.0	43.4	33.2	58	1876	9	1881	2.06	19.3 <sup>1</sup>	8 <sup>+</sup>
Oxford	29.987	36.4	35.4	42.5	32.9	56	1877, 90	7	1881	2.16	47.1	19
Cambridge	29.979	35.6	34.8	42.7	30.9	59	1878, 80	4	1881	1.52	49.8	20
Yarmouth	29.960	37.0	36.1	40.9	33.0	55	1878, 84	10	1881	1.96	—	—

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

† The Sunshine values are for Westminster.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

*Highest* 29.8 ins. in an anticyclone covering our NW<sup>m</sup> stations.  
*Lowest*. Below 29.3 ins. over the N. of Scandinavia, and below 29.6 ins. over Spain.  
*Gradients* slight over our Islands.  
*Barometer* falling - most in the NW. and N.

## TEMPERATURE

*Highest* 40° and more at our SW<sup>m</sup> stations, and in the south of France.  
*Lowest* 11° at Karlstad, 18° at Haparanda, 23° to 32° over Germany.  
*The maxima* recorded during the past 24 hours ranged from 39° at Leith to 45° at some of our SW<sup>m</sup> stations, but were lower over Germany and the Netherlands.  
*The minima* in the past night were as low as 29° at Cambridge, and 35° at Aberdeen.

## WIND

W<sup>24</sup> to NW<sup>24</sup> at our northern stations, and of little force, NE<sup>24</sup> to E<sup>24</sup> in the south, calm in the northwest.

## WEATHER

Dull generally, and hazy or foggy in many places.  
*Very slight rain* fell at a few stations yesterday, the largest amounts reported in our Islands being 0.08 in. at Shields, and 0.09 in. at Yarmouth.  
*Bright sunshine* recorded yesterday exceeded an hour at Brighton, Cambridge and Valencia; elsewhere there was very little, or none.

## SEA

Rather rough in the far north, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

*The anticyclone* in the NW. is becoming less and less well defined, but definite signs of any coming change are wanting at present.

# FORECASTS

For the 24 hours ending at NOON on 1<sup>ST</sup> FEB.

1899.

## DISTRICTS.

## FORECASTS.

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

W<sup>24</sup> and NW<sup>24</sup> winds, cloudy, some showers, milder.

N<sup>24</sup> and NE<sup>24</sup> breezes, light, hazy, becoming milder.

## DISTRICTS.

## FORECASTS.

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

Same as Nos. 0 to 2.

Same as No. 10

Same as Nos. 0 to 2.

E<sup>24</sup> breezes, moderate, fair.

None issued.

## WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.89	41	40	N	4	r	2	Valencia ...	29.97	47	42	E	2	c	3
Sumburgh Head ...	29.97	41	41	N	1	o	3	Scilly ...	29.87	44	40	NE	5	o	2
Stornoway ...	30.04	43	41	W	3	o	3	Jersey ...	29.82	45	43	NE	3	cm	3
Aberdeen ...	30.04	39	36	NW	2	og	2	Hurst Castle ...	29.85	44	41	NE	4	cm	3
Shields ...	30.06	42	41	N	3	r	2	Dungeness ...	29.86	42	40	ENE	4	o	3
Ardrossan ...	30.07	39	38	NNE	2	of	1	North Foreland							
Malin Head ...	30.04	43	42	S	1	c	0	London (Westminster)	29.90	44	40	NE	3	cm	#
Belmullet ...	30.06	43	42	E	1	o	#	Yarmouth ...	29.91	42	39	ENE	3	bc	4
Holyhead ...	30.02	44	42	NE	3	op	2	Rochefort ...	29.73	36	35	ENE	1	r	#

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

Weather in morning dull and gloomy over almost the whole of W. Europe; foggy in places as well as in Germany, with very slight showers locally - of rain over the British Islands, and snow in various parts of the Continent - considerable rain at Christiania later, and slight showers in a few places, but slight temporary <sup>clearance</sup> of the sky reported locally, most in the E. of England.

Temperature risen slightly over England, Ireland and France. Morning reading, highest 60° at Algiers, 43° in the S. of France, 44° at Biscaritz and Scilly, and between 43° and 40° at most of our S. and W. stations. Lowest 8° at Archangel, 15° at Karlstad, Stockholm and Moscow, 22° at Kief, 26° at Breslau, and 30° at Berlin and Paris. Rising later to between 40° and 47° over our Islands, continuing as low as 30° to 40° over Germany all day.

Wind of very little force anywhere, W. over our northern stations and Norway, NE. in the south of our Islands and the north of France. Chiefly NW. in Germany, very variable elsewhere. No important change later.

Barometer highest 30.0 ins. and more over the N. and W. parts of our Islands, and exceeding 29.9 ins. all over the North Sea, the Netherlands and greater part of Germany. Lowest below 29.4 ins. over Lapland, and below 29.6 ins. in the SW. of Spain; falling slightly over our Islands all day, but no important change in general distribution.

### 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 "



## 2. CORRECTIONS.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
DATE.	STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
2	London	-	-	-	-	-	-	-	-	-	-	-	-	-	1 cm. or 1.6	-	-	-	-	-
3	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13
4	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
-	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
-	Pembroke	29.88	-	-	-	-	29.94	-	-	51	-	-	-	-	-	-	-	-	-	-
5	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
6	Pembroke	-	-	-	-	-	30.08	-	-	48	-	-	-	-	-	-	-	-	-	-
7	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
8	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	E	-	-	-	-	-	-
-	Dungentiss	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
9	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
10	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-
11	Brest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
12	Pembroke	-	-	-	-	-	29.22	-	-	-	-	-	-	-	-	-	-	38	-	-
13	Parsonstown	-	-	-	-	-	29.71	+ .69	-	-	-	-	-	-	-	-	-	-	-	-
14	Leith	29.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	bcy p	-	-	-	-	-	-
16	Sumburgh Head	-	-	-	-	-	28.88	- .67	-	-	-	-	-	-	-	-	-	-	-	-
-	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
-	Malin Head	-	-	Sw	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Malin Head	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
18	Prank Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-
-	Cambridge	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Loughborough	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-
-	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
21	Prank Point	-	-	-	-	-	29.37	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-
-	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80
-	Prank Point	29.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Dungeness	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-
27	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
-	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-
-	Donaghadee	-	-	-	-	-	30.57	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-
30	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-
-	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
-	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	-



# ADDITIONS AND CORRECTIONS TO THE

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
DATE.	STATIONS.	BAROM.	TEMP.	WIND.		Weather	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sun- shine.	TEMP.		
		At 32° and M.S.L.	Dry Bulb.	Dir.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dir.	Force (0 to 12.)					Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Mesbaden	-	-	-	-	-	29.60	-37	34	-	0	Z	0	0	-	-	-	39	32	-
"	The Helder	29.75	35	S	2	0	29.38	-	33	-	-9	SSE	1	S	1	0	-	43	32	0.12
2	The Helder	29.17	39	SSE	1	0	28.82	-56	42	-	+9	WSW	4	0	4	0	-	43	33	0.28
"	Lorient	29.41	40	W	8	+	29.26	-28	48	46	0	WSW	6	+	7	+	-	55	43	0.47
"	Corunna	30.04	57	SW	5	c	30.10	-	59	56	-	W	6	f	7	c	-	61	48	-
3	The Helder	28.86	39	W	5	c	29.31	+49	40	-	-2	NE	1	c	1	c	-	43	36	0.35
"	Corunna	30.20	58	W	6	f	?	?	58	55	-1	?	5	f	6	f	-	63	50	-
5	Corunna	30.42	57	W	3	f	30.36	-	45	43	-	W	1	f	5	f	-	61	37	-
6	Cape Gris Neg.	?	43	NE	1	m	?	-	39	-	-9	SSE	2	c	0	m	-	48	34	-
"	Paris	30.40	50	WSW	1	+	30.34	+04	43	-	-4	E	1	c	-	+	-	55	42	0.04
"	Brest	30.35	50	ENE	1	0	30.17	-13	50	-	+1	SE	3	0	3	0	-	50	45	-
"	Belfort	30.40	43	W	2	f	30.39	+03	39	-	-2	ENE	1	0	-	f	-	44	38	-
"	Nice	30.23	49	E	2	f	30.32	+21	43	-	-1	E	1	6	-	f	-	59	43	-
"	Perpignan	30.34	49	WSW	3	6	30.28	-08	35	-	-16	W	2	6	-	6	-	56	34	-
"	Corunna	30.23	56	W	1	6	30.12	-22	49	45	+4	S	3	6	5	6	-	57	41	-
"	Azores (P. Delgada)	30.18	53	WSW	3	bc	30.23	+13	51	48	-7	WSW	2	bc	3	bc	-	63	50	-
11	London	29.41	43	W	2	bm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Maparandae	29.15	17	Z	0	0	29.08	-30	16	15	+2	WSW	2	0	-	0	-	19	9	-
"	Hernandez	29.13	20	Z	0	0	29.13	-18	10	10	-8	Z	0	f	-	6	-	28	10	0.08
"	Stockholm	29.16	35	Z	0	6	29.06	-36	32	32	-1	NE	2	0	-	+	-	36	32	0.12
"	Mosby	29.29	36	S	6	6	28.98	-62	35	35	-3	SSE	4	+	-	6	-	38	32	0.12
"	Carlsbad	29.08	33	S	2	S	29.09	-33	31	31	-5	Z	0	bc	-	-	-	-	-	0.04
"	Bodo	29.07	28	E	2	6	29.08	-14	27	24	+6	E	4	6	-	6	-	28	18	-
"	Christiansund	28.97	37	SSE	2	6	29.09	-04	37	36	-2	WSW	4	c	1	6	-	34	36	0.04
"	Skudesnues	28.86	39	SSE	4	bc	29.19	-06	39	36	-3	WSW	4	bc	4	bc	-	43	36	-
"	Tarso	29.05	38	SW	2	bc	29.10	-28	36	34	-3	WSW	4	0	2	bc	-	39	36	0.16
"	Skagen	28.98	37	SSE	3	+	29.06	-37	37	37	+1	NE	3	c	3	+	-	39	36	0.12
"	Faro	28.78	40	WSW	4	+	29.09	-33	37	37	-1	WSW	6	c	0	+	-	41	34	0.35
"	Belmullet	29.42	45	WSW	8	c	29.61	+87	43	41	-4	W	4	0	-	c	-	49	41	0.03
"	The Helder	28.97	46	WSW	6	0	29.55	+01	45	-	+2	WSW	7	c	7	0	-	48	41	0.32
"	Corunna	30.38	60	SW	6	0	30.48	-	56	53	-	SW	4	0	3	0	-	61	46	-
"	Lisbon	30.63	53	Z	0	6	30.66	+06	50	48	+1	Z	0	6	-	6	-	57	49	-
"	Azores (P. Delgada)	30.15	61	SSE	5	+	30.13	-08	60	59	-1	SSE	5	c	5	+	-	64	59	0.12
14	Corunna	30.51	58	SW	4	bc	30.50	+02	55	52	-1	S	4	0	3	bc	-	59	50	-
"	Lisbon	30.66	51	WSW	3	6	30.66	-00	48	47	-2	Z	0	f	-	6	-	59	46	-
15	The Helder	29.83	44	WSW	4	0	29.91	+22	43	-	-1	WSW	3	6	1	0	-	43	43	-
16	Corunna	30.34	61	SW	3	6	30.16	-47	57	52	-3	S	6	f	3	6	-	61	50	-
17	The Helder	29.26	38	SW	6	6	29.60	+21	42	-	-6	WSW	6	c	6	6	-	48	41	-
"	Corunna	30.26	52	W	3	0	30.40	+24	45	43	-12	WSW	2	c	5	0	-	57	37	0.28
18	Corunna	30.37	57	SW	1	6	30.23	-17	45	41	0	SW	1	6	3	6	-	57	36	-
19	Corunna	30.15	58	S	3	6	30.11	-12	53	50	+8	S	3	0	3	6	-	59	45	-
20	Paris	29.97	50	SW	3	c	30.02	+02	48	-	+7	SSE	4	0	-	c	-	57	41	-
"	Brest	29.82	53	SW	4	0	29.82	-02	51	-	-1	SSE	4	0	5	0	-	57	46	0.08
"	Nice	30.29	49	Z	0	6	30.30	+06	48	-	+6	Z	0	0	0	6	-	55	42	-
"	Perpignan	30.19	45	E	1	6	30.26	+07	45	-	+7	Z	0	0	-	6	-	56	38	-
21	Brest	29.77	53	SW	5	0	29.55	-27	54	-	+3	SSE	6	0	5	0	-	54	48	0.04
"	Corunna	30.03	57	S	6	c	29.85	-	57	51	-	S	6	0	3	0	-	59	46	-
"	Azores (P. Delgada)	29.79	59	W	6	0	29.92	+06	55	55	-5	WSW	5	c	4	0	-	64	55	0.26
22	Corunna	29.80	57	S	7	0	29.91	+06	51	48	-6	SSE	3	0	5	0	-	59	45	0.39
23	Corunna	29.99	49	W	2	+	30.24	+33	46	44	-5	H	2	c	5	+	-	54	37	-
24	Corunna	30.20	54	H	2	6	30.17	-07	46	42	0	E	3	0	4	6	-	54	36	-
25	Corunna	30.20	55	SE	2	0	30.25	+08	48	46	+2	SSE	2	c	4	0	-	55	41	-
26	Corunna	30.26	57	SSE	2	c	30.28	+03	41	39	-7	SSE	1	c	4	c	-	59	34	-
27	Corunna	30.23	51	E	3	6	30.06	-22	39	36	-2	NE	1	6	4	6	-	52	32	-
"	Azores (P. Delgada)	29.70	60	WSW	3	c	29.75	+08	59	55	+8	WSW	3	c	3	c	-	61	51	-
28	Corunna	29.93	51	NE	3	6	29.94	-12	39	39	0	E	2	6	4	6	-	50	36	-
29	Corunna	29.89	49	NE	3	6	29.92	-02	39	36	0	NE	3	c	4	6	-	50	30	-
30	Corunna	29.89	49	NE	3	6	29.78	-14	40	38	+1	NE	2	c	4	6	-	54	32	-
31	Corunna	29.68	53	NE	3	c	29.73	-45	46	44	+6	E	3	+	2	c	-	54	37	0.12