

DAILY WEATHER REPORT

METEOROLOGICAL OFFICE

LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY—30TH JUNE.

1888.

Soc. Reg. Lond.

DAILY WEATHER REPORT.

January to June 1888.



DAILY WEATHER REPORT.

for *Sunday 1st January*. 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.12	21	SW	4	0	29.18	-1.39	19	18	+19	W	2	0	*	21	-11	—	
	Hernösand ...	29.77	12	S	2	C	29.44	-1.53	26	24	+26	SW	2	C	*	?	-11	—	
	Stockholm ...	29.96	14	SW	4	0	29.82	-1.32	22	22	+21	SW	4	0	*	?	1	—	
	Wisby ...	20.08	23	W	6	6	29.95	-1.10	28	27	+11	WSW	6	0	*	?	10	—	
	Bodö ...	29.17	20	NW	6	0	29.27	-1.28	22	22	-7	NE	2	0	2	?	10	—	
	Christiansund...	29.52	26	SW	7	C	29.44	-1.42	34	33	+2	WSW	4	0	4	26	20	0.22	
	Skudesnaes ...	29.80	26	S	4	C	29.62	-1.40	37	35	+3	SSE	6	0	5	?	24	—	
	Christiania Fjord (Verder)	29.86	23	SW	8	0	29.73	-1.37	35	33	+8	SW	5	0	2	?	?	—	
	Skagen (The Scaw)	20.06	25	SW	2	0	29.81	-1.23	25	25	+2	SW	3	0	2	25	23	—	
	Fanö ...	20.00	20	E	2	6	29.82	-1.30	29	29	+10	S	4	m	*	29	18	—	
BRITISH ISLANDS.	Sumburgh Head	29.71	26	X	0	C	29.47	-1.45	39	37	+5	SW	1	0	1	39	22	0.06	
	Stornoway ...	29.73	25	SW	2	6	29.43	-1.53	40	37	+5	SW	6	C	4	40	20	—	
	Wick ...	29.73	22	NW	1	6	29.46	-1.50	26	25	+4	SW	2	0	2	37	20	—	
	Nairn ...	29.77	25	X	0	6	29.51	-1.50	35	24	0	X	0	C	1	37	21	—	
	Aberdeen...	29.83	22	WSW	1	C	29.57	-1.47	32	31	+3	WSW	1	6	0	35	28	—	
	Leith ...	29.87	26	W	1	m	29.61	-1.45	36	34	+4	W	2	0	*	38	21	—	
	Shields ...	29.93	28	SW	2	0	29.65	-1.46	34	32	-1	SW	3	C	2	38	22	—	
	Spurn Head ...	20.00	26	SW	3	0	29.77	-1.29	33	32	-2	S	3	Cm	2	37	20	—	
	York ...	29.98	25	W	1	0	29.74	-1.41	29	28	-5	S	1	6	*	26	28	—	
	Loughborough	20.02	24	SSW	3	0	29.75	-1.47	27	27	-8	ESE	1	C	*	26	26	—	
GERMANY.	Ardrossan ...	29.87	41	WSW	4	0	29.57	-1.48	39	37	-1	SSE	4	opst	2	41	37	0.01	
	Malin Head ...	29.84	26	SSW	4	0	29.50	-1.53	33	32	-4	S	3	bcm	2	37	22	—	
	Mullaghmore ...	29.88	26	S	2	0	29.51	-1.59	37	35	0	SSE	5	om	2	40	24	—	
	Belmullet ...	29.87	29	SSW	3	0	29.45	-1.63	37	35	-3	SSE	2	0	*	40	37	—	
	Donaghadee ...	29.91	24	WSW	3	6C	29.57	-1.53	35	35	0	WSW	2	0	0	36	24	—	
	Barrow-in-Furness	29.94	29	SW	4	0	29.67	-1.46	32	29	-3	ESE	4	C	*	?	21	—	
	Liverpool (Bidston)	29.99	24	S	1	0	29.67	-1.48	29	28	-7	SE	3	6	2	37	29	—	
	Holyhead ...	29.97	27	SW	1	†	29.68	-1.52	31	30	-8	X	0	C	0	39	21	0.02	
	Parsonstown ...	29.93	25	X	0	0	29.53	-1.62	35	33	+3	SE	2	0	*	26	31	—	
	Valencia ...	29.86	42	ENE	2	0	29.45	-1.64	44	37	+1	E	2	og	2	42	38	—	
FRANCE & NETHERLANDS.	Roche's Point...	29.89	43	ESE	4	0	29.48	-1.62	42	40	+2	ESE	4	0	4	42	40	—	
	Pembroke ...	29.95	38	E	3	0	29.53	-1.62	35	34	-3	ESE	6	bc	2	40	25	—	
	Scilly ...	29.87	44	SE	5	0	29.43	-1.63	42	41	-1	SE	6	0	5	44	40	—	
	Prawle Point ...	29.94	27	E	4	6C	29.56	-1.57	26	24	-2	E	5	cu	5	41	24	—	
	Jersey ...	29.96	26	E	3	6	29.60	-1.53	34	32	-6	SE	4	bcm	2	41	27	—	
	Hurst Castle ...	20.01	26	ESE	4	C	29.68	-1.52	33	32	-3	ESE	4	6	1	38	20	—	
	Dungeness ...	20.04	25	SW	2	6C	29.75	-1.44	29	29	-5	SE	4	6	2	36	29	—	
	London ...	20.06	25	SW	2	om	29.74	-1.48	24	23	-9	E	2	6	*	38	24	—	
	Oxford ...	20.02	24	SW	1	0	29.72	-1.50	26	25	-8	ESE	2	6	*	35	26	—	
	Cambridge ...	20.06	23	X	0	0	29.76	-1.45	26	25	-7	X	0	6C	*	35	24	—	
PENIN. ISLANDS.	Yarmouth ...	20.05	24	W	2	C	29.79	-1.38	33	31	-1	S	4	6	3	35	21	—	
	Cuxhaven ...	20.13	29	X	0	0	29.96	-1.12	28	?	-2	SW	2	0	*	?	25	—	
	Berlin ...	20.11	24	S	1	0	20.05	-1.08	22	22	+1	SSE	2	6	*	27	21	0.08	
	Wiesbaden ...	*	*	*	*	*	20.02	-1.26	1	1	-9	N	1	6	*	21	1	—	
	Munich ...	20.10	-3	E	2	f	29.97	?	-6	-6	-14	SE	1	6	*	16	-8	—	
	The Helder ...	20.02	25	SWW	1	f	29.87	-1.26	27	26	-9	S	1	6C	1	37	27	0.12	
	Brussels ...	*	*	*	*	*	29.86	-1.40	11	?	-11	SE	1	6	*	32	11	—	
	Cape Gris Nez...	20.02	20	E	1	0	29.75	-1.45	20	20	-10	SE	4	6	2	26	19	—	
	Paris ...	20.08	20	E	2	6	29.80	-1.44	14	14	-8	ENE	1	6C	*	?	13	—	
	Brest ...	29.84	25	SE	7	0	29.46	-1.68	29	28	-6	SE	3	0	5	?	27	—	

For Explanation of Columns, see p. 4.

WEATHER

for 8 a.m. on

CHARTS

Sunday

1st January

1888

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

— = forces above 10; — = forces 8 to 10;

— = forces 5 to 7; — = forces 1 to 4;

○ = dead calm.

Sea Disturbance — where considerable is shown thus.

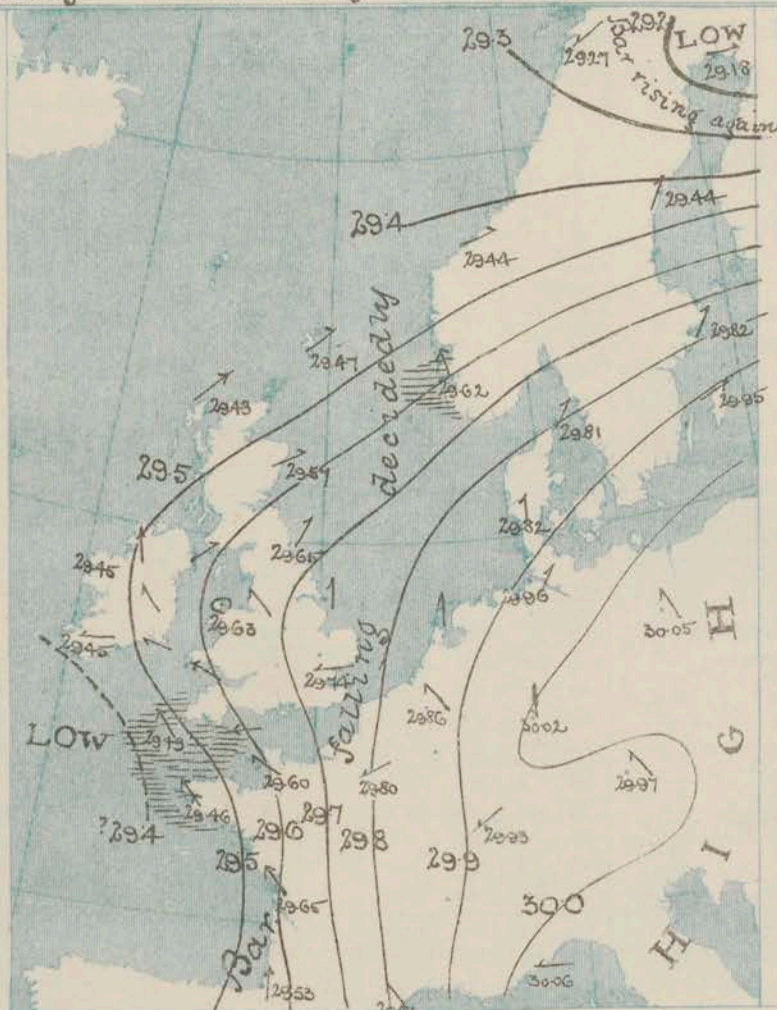
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January

During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
	in.
Sumburgh Head	29.685
Sornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.885
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.067
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

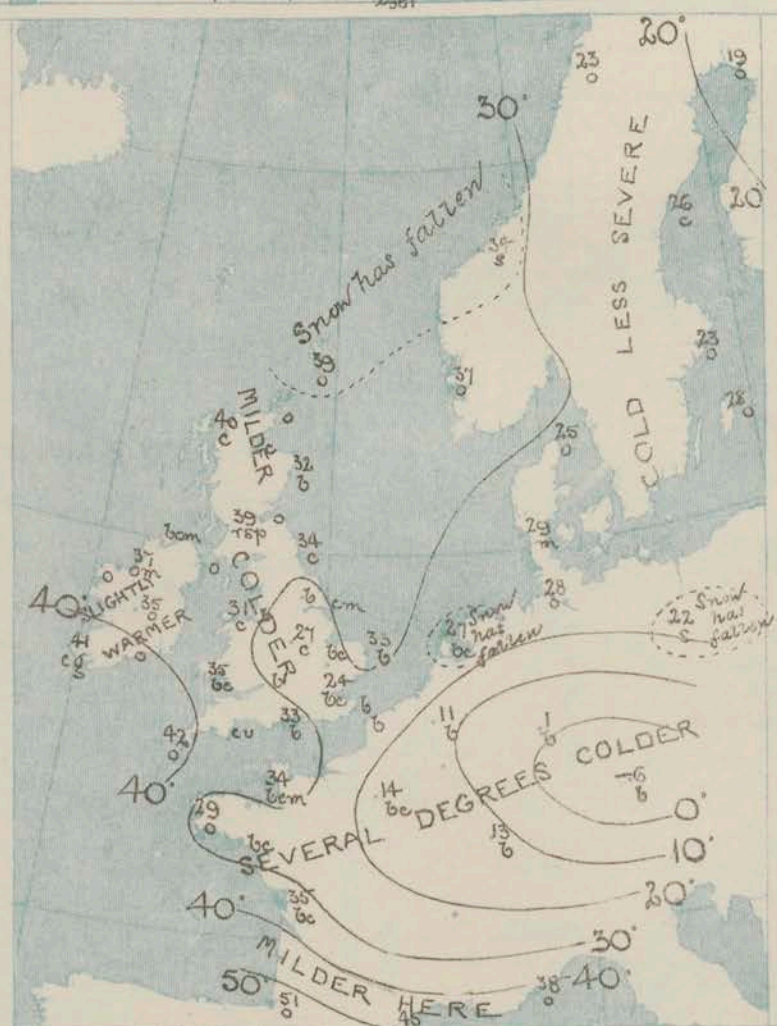
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Sornoway	43.0	34.2	39.0	37.8	6.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	35.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.0	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.06
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.40
Liverpool	43.9	35.6	38.7	37.1	2.33
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.8	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.8	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.0 ins. and upwards over Germany and the southeast of France. Lowest 29.2 ins. and less over the North of Sweden; 29.4 ins. and less in a depression lying off our extreme southwest coasts. Gradients moderate, but increasing in southwest. Barometer falling generally, — most in West and North.
TEMPERATURE	Highest 55° at Lisbon, 51° at Biarritz, 45° at Perpignan, 42° at Roches Point and Seilly and 41° at Valencia. Lowest -6° Fahr at Munich, +1° at Wiesbaden, 11° at Brussels, 13° at Belfort, 14° at Paris and 19° at Hararanda. Sharp frost is again reported over England, the lowest reading being 24° in London.
WIND	SE. over England, Ireland and France; strong in force in the West of France and southwest of England. Light to fresh from the SW nd over Scandinavia and the North of our Islands.
WEATHER	Dull in the West and extreme North of our Islands, and also in Scandinavia, Denmark, North Germany and the South of France, with snow at Christiansund and Berlin. Fine over the greater part of England and France, and also in the East of Scotland.
SEA	Rather rough at the mouth of the Channel and also at Skudesnaes, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A brisk fall of the barometer is in progress generally, and a depression is approaching our southwest coasts.
Some increase of wind is probable in the extreme West and southwest.

NOTICE

Some important alterations have been made in the mean values quoted on p. 2 of the Daily Weather Report.
For Pressure and Temperature the means are now those for the 15 years 1871—85 (instead of those for the 10 years 1871—80).
For Rainfall the values are still those for the 20 years 1866—1885.
Mean values (for all three elements) for Parsonstown, Loughborough, and Jersey have been added to the list hitherto published.

FORECASTS

for the 24 hours ending at NOON on 2nd January 1888.

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

WARNINGS

FORECASTS.

NONE ISSUED

The South Cone has been hoisted this morning in districts 8 to 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.91	36	35	SE 6	073	5	Holyhead ...	30.04	37	37	SE 1	cm p	1
Sumburgh Head ...	29.79	36	35	X 0	6C	0	Valencia ...	29.96	41	39	ESE 3	om g	2
Stormoway ...	29.83	39	38	SW 3	C	3	Scilly ...	29.91	44	43	ESE 5	0	4
Aberdeen ...	29.91	32	30	W 2	6C	1	Dungeness ...	30.09	36	34	SW 2	0	2
Shields ...	29.97	38	35	SW 2	m	2	London ...	30.11	38	35	WSW 1	om g	*
Ardrossan ...	29.93	41	38	WSW 4	0	3	Yarmouth ...	30.08	35	34	W 2	cf 0	3
Malin Head ...	29.92	37	35	SW 3	0	3	Jersey ...	30.02	40	37	ESE 3	6	3
Mullaghmore ...	29.98	37	34	SW 3	om	2	Rochefort ...	29.99	35	33	E 7	6	2
Belmullet ...	29.96	40	37	SW 2	09	*							

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

The reports for yesterday morning showed that pressure varied from between 30.1 ins. and 30.3 ins. over certain parts of Germany, France, and England, to 29.6 ins. and less over Lapland, and to 29.5 ins. at Lisbon. Within the high pressure area the barometer was rising, but at all the northwestern, western and southwestern stations it was falling, and the fall appeared to be spreading eastwards. SW. winds were setting in at the extreme northwestern stations, and S. in the West, while over France and the South of England the wind was E. The weather had become finer generally than of late, but cold showers still fell in several places. Temperature was rising in the extreme West and northwest while over England, the cold had given way somewhat, but over France, with central and northern Europe severe frosts still prevailed, with some tendency to increase. The lowest individual readings reported were -10° F. at Kuopio and Hernösand, -6° at Archangel and Helsingfors, -4° at Hangö and Laracow, 0° (F) at Hypparanda, +1° at Moscow and Kiev, 2° at Stockholm, 3° at Berne and Mennel, 8° at Munich, 9° at Cassel, 10° at Wiesbaden, 15° at Lyons, 21° at Berlin, 22° at Paris, Brussels and the Scaw, 32° at Parsonstown and 33° in London. The highest were 59° at Lisbon, 52° at Oran, 50° at Brindisi (the Malta report was not in), 43° at Florence and at Jersey, 48° at Cagliari, and 40° at Valencia and Belmullet -

Towards night frost again set in (temporarily) over England and became still harder over Germany than it had been hitherto.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance

DAILY WEATHER REPORT.

for Monday 2nd January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																			8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			Amount of Rainfall.												
			Direc.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.														
SCANDINAVIA.																															
Haparanda ..	29.59	0	NW	2	bc	29.65	+ .47	11	11	- 8	N	2	0	*	21	?	0.20														
Hernösand ...	29.59	24	S	2	bc	29.70	+ .26	29	23	+ 3	S	4	0	*	29	10	-														
Stockholm ...	29.92	23	S	2	c	29.96	+ .14	27	25	+ 4	S	2	0	*	?	14	-														
Wisby ...	29.97	27	SW	4	0	30.00	+ .05	27	26	- 1	SE	4	0	*	30	21	0.08														
Bodö ...	29.45	23	NE	4	b	29.63	+ .36	14	12	- 9	ENE	2	0	1	23	?	-														
Christiansund...	29.34	38	SW	8	c	29.45	+ .01	37	35	+ 3	SSE	1	0	3	37	30	0.35														
Skudesnaes ...	29.55	40	S	8	0	29.47	+ .15	44	31	+ 3	SSE	8	0	5	39	?	-														
Christiania Fjord (Færder)	29.66	37	S	5	0	29.73	- .00	35	33	0	SSE	6	0	4	37	34	-														
Skagen (The Scaw)	29.56	31	SSW	3	0	29.73	- .08	31	31	+ 6	S	3	0	3	32	25	-														
Fanö ...	29.76	20	SSE	4	b	29.64	- .18	17	?	- 12	SE	6	0	*	34	17	0.08														
BRITISH ISLANDS.																															
Sumburgh Head	29.32	39	SSW	2	0	29.12	- .35	37	37	- 2	SSE	3	Y	3	40	35	0.24														
Stornoway ...	29.23	40	SW	6	bc	28.99	- .44	40	40	0	SW	4	Y	4	40	34	0.06														
Wick ...	29.28	36	S	8	0	29.01	- .45	35	34	- 1	S	2	S	2	39	33	0.10														
Nairn ...	29.29	32	Z	0	bc	29.04	- .47	31	30	- 4	Z	0	S	1	37	29	0.05														
Aberdeen...	29.37	34	SW	1	0	29.04	- .53	35	34	+ 3	SSW	3	rsp	1	36	30	0.07														
Leith ...	29.38	33	W	1	0	29.06	- .55	31	31	- 5	Z	0	S	*	36	29	0.13														
Shields ...	29.45	33	SE	3	0	29.12	- .53	35	34	+ 1	S	4	0	2	35	29	0.01														
Spurn Head ...	29.47	34	SE	3	bc	29.23	- .54	39	38	+ 6	S	5	rm	3	39	29	0.02														
York ...	29.48	30	SE	1	0	29.20	- .54	37	36	+ 8	SE	1	m	*	37	28	0.14														
Loughborough	29.47	28	ESE	1	0	29.26	- .49	41	40	+ 14	SSE	4	og	*	41	26	0.01														
Ardrossan ...	29.34	37	ESE	3	om	29.05	- .52	30	30	- 9	NE	2	og	1	40	29	0.19														
Malin Head ...	29.26	34	S	4	bcm	29.02	- .48	34	34	+ 1	SSW	3	bosp	3	35	32	0.11														
Mullaghmore ...	29.25	37	SSE	3	c	29.06	- .45	36	35	- 1	trw	4	c	2	38	32	0.11														
Belmullet ...	29.23	36	SSE	2	0	29.09	- .30	40	38	+ 3	W	4	b	*	40	33	0.03														
Donaghadee ...	29.32	36	SW	2	0	? 29.04	- .53	38	37	+ 3	WNW	1	c	1	38	35	0.48														
Barrow-in-Furness	29.38	33	SE	4	0	29.07	- .60	40	40	+ 8	SE	7	Y	*	40	31	0.14														
Liverpool (Bidston)	29.36	29	ESE	6	0	29.12	- .55	40	39	+ 11	SE	5	0	4	40	28	0.10														
Holyhead ...	29.34	37	NNE	1	0	29.09	- .54	41	41	+ 10	WSW	4	rm	4	48	31	0.20														
Parsonstown ...	29.25	35	Z	0	0	29.15	- .38	34	34	- 1	Z	0	c	*	37	33	0.47														
Valencia ...	29.17	40	E	3	ogr	29.21	- .24	43	39	+ 2	WNW	3	bc	3	43	34	0.16														
Roche's Point...	29.19	42	SE	5	Y	29.19	- .29	37	35	- 5	N	2	b	5	43	36	0.65														
Pembroke ...	29.25	38	SSE	5	Y	29.17	- .36	43	43	+ 8	S	4	Y	4	44	34	0.13														
Scilly ...	29.20	45	SSE	7	Y	29.13	- .30	46	46	+ 14	WNW	6	Y	6	46	40	0.23														
Prawle Point ...	29.33	42	SE	5	0	29.22	- .34	46	45	+ 10	S	6	ou	6	47	35	0.07														
Jersey ...	29.42	41	SSE	5	pgm	29.30	- .30	45	43	+ 11	S	7	og	5	45	33	0.02														
Hurst Castle ...	29.42	40	SSE	5	c	29.31	- .37	43	43	+ 10	S	5	bc	2	45	30	0.03														
Dungeness ...	29.34	35	S	5	c	29.40	- .35	43	42	+ 14	SSW	5	c	4	44	29	-														
London ...	29.49	30	SE	2	bc	29.35	- .39	42	40	+ 18	S	3	c	*	43	24	-														
Oxford ...	29.42	32	E	1	0	29.31	- .41	41	41	+ 15	S	1	0	*	41	25	0.02														
Cambridge ...	29.50	29	S	2	0	29.33	- .43	40	39	+ 14	S	2	0	*	40	25	-														
Yarmouth ...	29.57	33	SSE	5	bc	29.39	- .40	39	38	+ 6	SSW	4	c d	4	39	31	0.01														
Cuxhaven ...	29.82	24	S	3	c	29.73	- .23	18	17	- 10	S	3	b	*	?	17	-														
Berlin ...	29.98	24	SSE	2	0	29.92	- .13	10	10	- 12	SSE	3	b	*	25	10	-														
Wiesbaden ...	*	*	*	*	*	29.82	- .20	5	5	+ 4	Z	0	b	*	18	31	-														
Munich ...	29.88	-3	Z	0	b	29.86	- .11	-11	-11	- 5	SE	2	b	*	5	-11	-														
GERMANY.																															
The Helder ...	29.65	22	SE	1	bc	29.50	- .37	28	27	+ 1	SSE	4	c	2	?	21	-														
Brussels ...	*	*	*	*	*	29.54	- .32	35	33	+ 24	SSE	3	0	*	?	19	-														
Cape Gris Nez...	29.55	28	SSE	5	bc	29.43	- .32	41	38	+ 21	S	5	0	3	?	-	-														
Paris ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*														
Brest ...	29.33	38	SSE	5	Y	29.21	- .25	44	41	+ 15	SE	5	Y	3	50	?	0.04														
Lorient ...	29.37	44	SSE	5	0	29.26	- .28	47	45	+ 18	S	5	0	?	45	?	-														
Rochefort ...	29.55	44	SE	7	c	29.48	- .17	44	42	+ 9	SSE	7	0	2	46	?	-														
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*														
Lyons ...	29.75	42	S	5	b	29.71	- .13	54	53	+ 7	SSW	1	c	*	44	37	-														
Nice ...	29.99	41	E	3	0	29.93	- .13	45	43	+ 7	ENE	4	0	?	45	?	-														
Perpignan ...	29.74	47	SE	3	Y	29.66	- .15	50	47	+ 5	SE	1	0	*	50	43	0.39														
Biarritz ...	29.47	54	SW	7	0	29.46	- .07	54	47	+ 3	SW	8	0	?	54	48	0.12														
FRANCE & NETHERLANDS.																															
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*														
Lisbon ...	29.44	53	SW	7	Y	29.75	+ .32	55	52	0	WSW	5	bc	?	61	51	0.35														

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 2nd January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○ — dead calm.

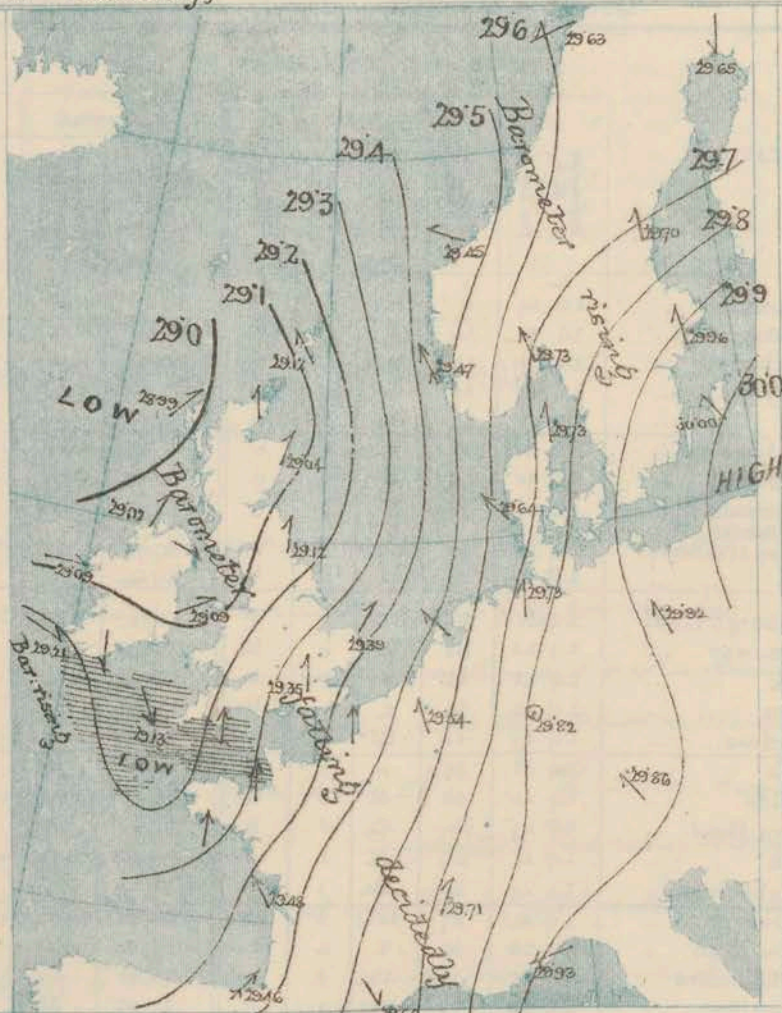
Sea Disturbance — where considerable is shown thus.
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.

During the 15 Years 1871—1885.

STATIONS	MEAN READINGS
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.980
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.907
Cambridge	29.932
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

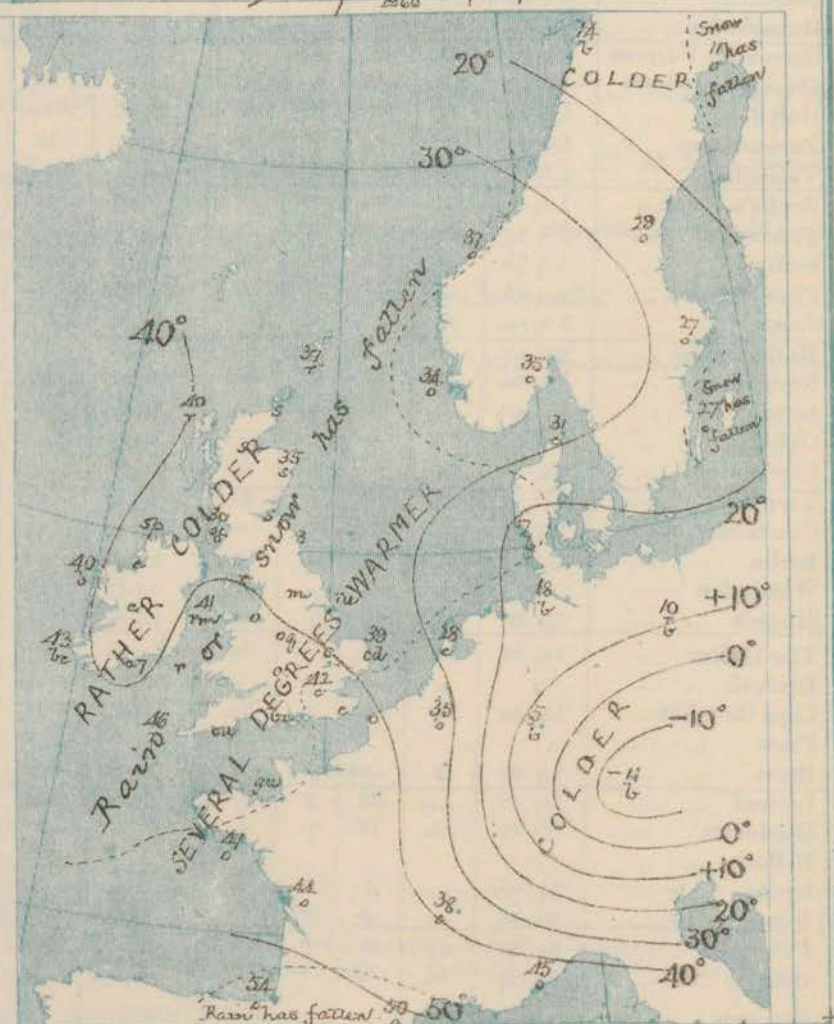
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	5.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	45.9	36.8	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	40.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.0 ins. and upwards over the Baltic. Lowest 29.0 ins. and less in a depression lying off the West of Scotland. Gradients rather steep to the East of our Islands, but slight elsewhere. Secondary disturbances are shown respectively over the Irish Sea and the mouth of the Bristol Channel. Barometer rising again in the S.W. but falling in other parts of our Islands.
TEMPERATURE	Highest 55° at Lisbon, 54° at Biscaya, 50° at Perpignan, 47° at Lorient, 46° at Scilly and Pwllheli Point and 45° at Jersey and Nice. Lowest -11° at Munich +5° at Wiesbaden 10° at Berlin, 11° at Haparanda, 14° at Bodo, and 17° at Fano. A rapid rise has taken place over England, Belgium and France.
WIND	N.W. on our extreme south west coast; S.W. in the extreme northwest. S. or S.E. elsewhere; fresh or strong in force over England, France and the North Sea. Light N.E. in the North of Scandinavia.
WEATHER	Fine in Germany and Denmark as well as at many of the Irish stations. Cloudy elsewhere, with snow in Scotland and rain in the West of England. Since yesterday rain or sleet has fallen in many parts of our Islands.
SEA	Rough or rather so on our southwest coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions over our West and northwest coasts seem likely to travel in a northeasterly direction, and changeable showery weather is therefore probable over England.
Fresh disturbances will probably appear in the West in the course of the ensuing 24 hours.

FORECASTS

For the 24 hours ending at NOON on 3rd January 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.W. and S.W. winds, moderate; some snow at first, then finer and milder.	6 SCOTLAND WEST	Light variable breezes; dull, some rain or sleet.
1 SCOTLAND EAST	.....	7 ENGLAND N.W.	Same as N° 5.
2 ENGLAND N.E.	Same as N° 5.	8 ENGLAND S.W.	N.W. winds, freshening later; changeable, some rain.
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	S.W. and W. winds, moderate or fresh; unsettled, showery.
4 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	Same as N° 8.
5 ENGLAND SOUTH	S.W. and S.W. winds, fresh or strong; changeable, some snow.	WARNINGS	The SOUTH CONE was hoisted yesterday in districts 8 to 10, but the signals have been lowered this morning in districts 9 and 10.

Note.—The South Cone, point downwards (V) 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 (A) 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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.58	89	86	S 6	C	4	Holyhead ...	29.44	86	83	2 0	0	0
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.29	74.0	39	SW 5	0	4	Scilly ...						
Aberdeen ...							Dungeness ...	29.60	82	82	SSE 4	6c	3
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.32	35	33	S 3	6c	2	Jersey ...	29.47	89	85	SSE 5	c	4
Mullaghmore ...							Rochefort ...	29.53	44	41	SE 7	0	2
Belmullet ...	29.30	38	36	SSE 3	0	*							

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

Continental information not yet received.

NOTICE.

Some important alterations have been made in the Mean Values quoted on p. 2 of the Daily Weather Report.

*For Pressure and Temperature the mean are now those for the 15 years 1871-85.
(instead of those for the 10 years 1871-80.)*

For Rainfall the values are still those for the 20 years 1866-1885.

Mean values (for all three elements) for PARSONSTOWN, LOUGHBOROUGH and JERSEY have been added to the list hitherto published.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 25TH TO THE 31ST DECEMBER 1887.

The weather of the past week has been very cold over the entire continent of Europe, and particularly so over the more northern and central countries. Heavy falls of snow have been experienced over Germany, Austria and Spain, while occasional showers of snow, sleet or cold rain have fallen in the northern and eastern parts of the United Kingdom.

At the commencement of the time, pressure was highest to the West of our Islands, and lowest in a large depression which passed southeastwards over the Baltic and Germany. The prevailing winds were therefore N.E. with cold showers at our eastern stations but fair weather in the West.

On the 27th however, anticyclonic systems were found over our Islands and Scandinavia, while large depressions appeared over the Iberian Peninsula and the western parts of the Mediterranean. Variable breezes consequently set in over our more northern districts, and N.E. breezes in the South, with cold but fair weather in most places. On the 28th the anticyclone over our Islands moved away to the westward, while that over Scandinavia dispersed, and the winds again became N.E. with a decided rise of temperature over the United Kingdom.

On the 29th and 30th a new anticyclonic system appeared over our Islands, but by the close of the week this was dispersing and the barometer was falling generally, while the winds were backing to the S.E.^{W.} The weather however remained fair in most districts.

Over the United Kingdom the lowest temperatures were registered on the 29th and on the night of the 31st, when the thermometer over England fell to 8° or 9° below freezing point. On the continent however, the weather was far more severe, the thermometer being many degrees below zero over Finland and North Russia on many occasions, and a few degrees below zero over southern Germany on the night of the 31st.

EXPLANATION OF 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.

† The evening observations are taken at 8 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 3rd January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ..	29.84	12	2	0	S	29.85	+20	12	12	+1	N	2	S	*		12	0	0.08
	Hernösand ...	29.82	29	SSW	2	0	29.76	+06	26	25	-3	S	8	S	*		30	23	0.39
	Stockholm ...	29.99	27	SE	2	0	29.95	-01	30	28	+3	SE	4	0	*		30	19	-
	Wisby ...	30.04	24	SW	4	0	30.00	-00	27	26	0	SSW	6	0	*		30	21	-
	Bodö ...	29.73	14	ESE	2	0	29.62	-01	21	18	+7	ESE	5	0	*		?	10	-
	Christiansund...	29.34	35	ESE	2	0	29.89	-06	37	36	0	ESE	1	0	4		37	32	0.04
	Skudesnaes ...	29.37	39	SE	8	T	29.53	+06	39	38	+5	SSE	4	0	5		39	34	-
	Christiania Fjord (Fæder)	29.67	31	SE	8	0	29.65	-08	34	33	-1	SSE	6	S	4		34	28	-
	Skagen (The Scaw)	29.64	30	S	7	0	29.66	-08	32	31	+1	SSW	6	0	3		32	30	-
	Faenø ...	29.65	25	SE	6	0	29.70	+06	27	26	+10	SE	4	0	*		27	17	-
BRITISH ISLANDS.	Sumburgh Head	29.00	38	ESE	8	bc	29.25	+13	41	39	+4	SW	3	0	3		41	35	0.22
	Stornoway ...	29.00	37	SW	4	0	29.24	+35	39	38	-1	SW	5	bc	4		40	33	0.14
	Wick ...	29.07	34	NW	1	0	29.42	+41	37	35	+2	SW	3	0	1		37	30	0.03
	Nairn ...	29.12	35	NW	1	0	29.43	+39	38	37	+7	WSW	2	0	1		38	26	0.03
	Aberdeen ...	29.18	31	SSW	1	0	29.52	+48	35	33	0	SW	2	0	1		36	28	0.04
	Leith ...	29.20	35	W	2	0	29.61	+55	39	36	+8	W	1	0	*		40	30	0.11
	Shields ...	29.31	39	2	0	T	29.70	+58	39	36	+4	WSW	2	0	2		41	33	0.05
	Spurn Head ...	29.32	40	SSE	4	T	29.79	+56	37	36	-2	WSW	3	bm	3		41	35	0.11
	York ...	29.31	40	SSE	1	m	29.79	+59	36	35	-1	S	1	0	*		42	32	0.10
	Loughborough	29.32	41	SE	2	T	29.83	+57	32	31	-9	ESE	1	bm	*		44	30	0.07
GERMANY.	Ardrossan ...	29.26	41	S	8	bm	29.62	+57	42	40	+12	WSW	4	bc	3		42	29	-
	Malin Head ...	29.18	39	SSW	4	bp	29.57	+55	37	36	+3	SSW	4	om	4		40	34	0.11
	Mullaghmore ...	29.27	40	SW	5	bc	29.57	+51	42	40	+6	SSW	5	ogm	3		43	35	0.03
	Behnullet ...	29.28	44	WSW	5	0	29.46	+37	41	40	+1	SSE	4	0	*		45	40	0.09
	Donaghadee ...	29.30	34	W	4	0	29.66	+62	35	34	-3	WSW	4	0	2		38	32	-
	Barrow-in-Farness	29.32	39	WSW	2	0	29.71	+64	41	40	+1	SW	4	bc	*		42	38	0.06
	Liverpool (Bidston)	29.37	38	W	2	0	29.76	+64	39	37	-1	SW	3	0	3		43	35	0.16
	Holyhead ...	29.37	33	WSW	2	0	29.73	+64	43	42	+2	SW	1	bm	2		43	37	0.14
	Parsonstown ...	29.38	35	2	0	0	29.64	+49	37	36	+3	SE	1	0	*		40	32	0.02
	Valencia ...	29.45	42	WSW	2	bp	29.53	+32	49	47	+6	SSE	6	ogm	6		49	38	0.08
FRANCE & NETHERLANDS.	Roche's Point...	29.44	41	W	3	0	29.66	+47	46	45	+9	S	5	p	4		48	37	0.03
	Pembroke ...	29.42	42	NW	4	0	29.79	+62	47	45	+4	S	4	bc	4		47	39	0.16
	Scilly ...	29.47	46	NW	6	0	29.80	+67	47	45	+1	SSW	5	bc	5		47	43	0.08
	Prawle Point ...	29.41	38	WSW	4	T	29.92	+70	45	42	-1	SSW	5	cu	4		47	37	0.14
	Jersey ...	29.33	45	S	4	T	29.98	+68	44	42	-1	WSW	3	bm	3		46	42	0.25
	Hurst Castle ...	29.33	44	SSE	2	3p	29.92	+61	38	36	-5	W	3	0	2		45	34	0.22
	Dungeness ...	29.39	43	SSW	5	T	29.88	+48	35	34	-8	WSW	3	0	2		46	34	0.25
	London ...	29.36	43	S	2	0.5	29.90	+55	32	32	-10	WSW	2	0	*		47	32	0.30
	Oxford ...	29.40	41	S	1	T	29.89	+58	34	33	-7	SW	2	0	*		43	32	0.21
	Cambridge ...	29.40	40	S	1	T	29.88	+55	31	30	-9	SW	1	0	*		43	30	0.14
PENINSULA.	Yarmouth ...	29.40	40	SSW	4	0	29.83	+44	34	33	-5	WSW	3	bm	3		41	32	0.07
	Cuxhaven ...	29.69	25	S	3	0	29.72	-01	31	30	+13	S	3	0	*		?	?	-
	Berlin ...	29.94	14	SE	4	0	29.99	+07	9	9	-1	SSE	2	0	*		28	9	-
	Wiesbaden ...	*	*	*	*	*	29.94	+12	25	24	+20	2	0	0	*		25	25	-
	Munich ...	29.88	1	E	2	0	30.05	+19	15	15	+4	SE	2	0	*		16	-11	-
	The Helder ...	29.53	34	SSE	1	0	29.69	+19	33	33	+5	SSE	1	f	1		34	27	0.08
	Brussels ...	*	*	*	*	*	29.75	+21	39	39	+4	WSW	3	f	*		41	35	0.08
	Cape Gris Nez...	29.41	42	S	5	0	29.87	+44	39	38	-2	W	7	0	5		45	39	0.08
	Paris ...	29.48	44	SSE	5	T	29.96	+41	39	?	+1	SW	3	0	*		45	36	-
	Brest ...	29.55	47	NW	8	T	29.95	+74	47	45	+3	S	4	0	5		50	37	-
PENINSULA.	Lorient ...	29.56	46	NW	7	0	30.01	+75	44	42	-3	SW	3	0	5		?	41	0.16
	Rocheport ...	29.73	49	W	8	T	30.11	+63	40	39	-4	SE	3	0	2		50	37	0.35
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Nice ...	29.91	45	N	1	T	30.02	+09	43	40	-2	2	0	0	3		46	41	-
PENINSULA.	Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Biarritz ...	29.72	52	W	4	0	30.11	+65	46	43	-8	SW	4	0	2		57	45	0.08
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
PENINSULA.	Lisbon ...	30.02	?	SW	?	?	30.10	+35	50	50	-5	ESE	3	f	5		59	48	-

For Explanation of Columns, see p. 4.

WEATHER

CHARTS

for 8 a.m. on

Tuesday, 3rd January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isohars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

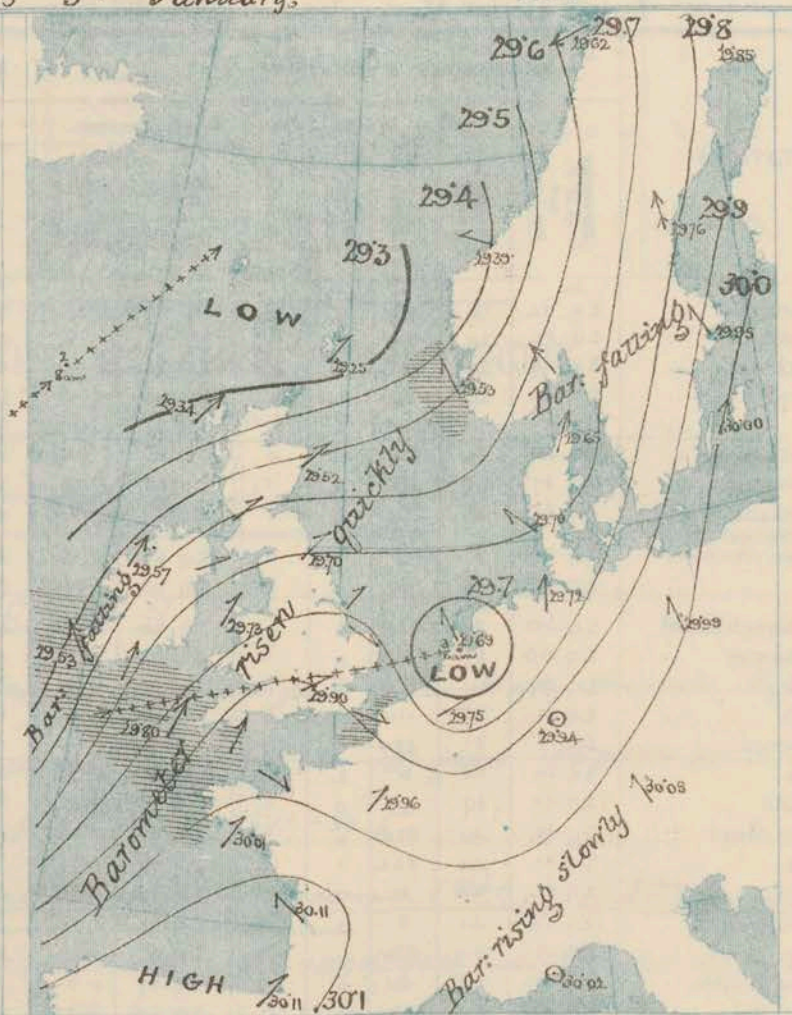
→ — forces above 10; → — forces 8 to 10;
 → — forces 5 to 7; → — forces 1 to 4;
 ○ — dead calm.

Sea Disturbance — where considerable, is shown thus:
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.758
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.824
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.967
Dover	30.017
LONDON	30.007
Oxford	29.967
Cambridge	29.962
Yarmouth	29.961



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

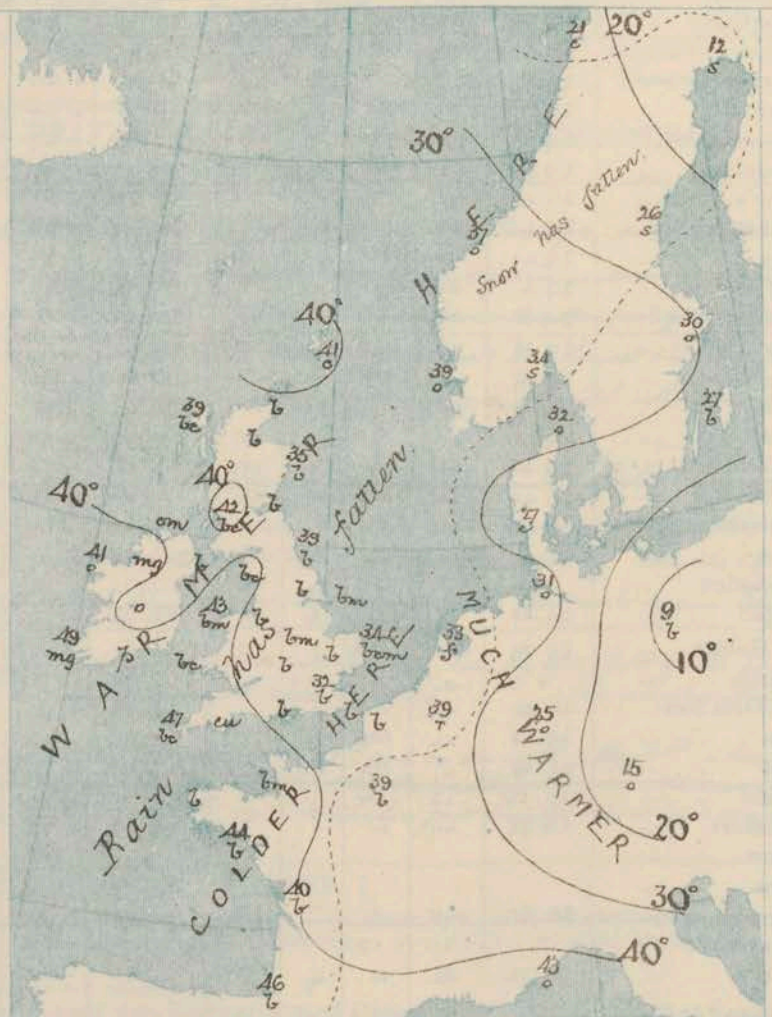
Weather — is shown by letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of January.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	41.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.68
Pembroke	45.8	39.9	42.8	41.2	3.93
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	40.0	32.5	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 15 years 1871–85; the Rainfall means are mainly those for the 10 years 1866–85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and more, over the southwest of France and the northern half of Spain; 30.0 in: and more over the Baltic.
lowest, 29.3 in: and less, off our extreme northern coast; 29.5 in: and less off the coast of Ireland.
Gradients moderate in most places, rather sharp in southwest.
Barometer beginning to fall again in west - rising decidedly elsewhere.

TEMPERATURE

Highest 50° at Lisbon, 49° at Valencia, 47° at Rheims, 46° at Biarritz, 44° at Jersey, 42° at Mullaghmore.
lowest, 3° at Arklow, 12° at Kaparanda, 15° at Munich, 15° at Wiesbaden, 26° at Herford, and 32° in London.
It is changing very fitfully; the rise noticed in England yesterday has now reached Northern Germany, while the fall noticed over England in the night is being succeeded rapidly by a fresh rise in the west.

WIND

S. (SSE to SSW), moderate to strong, on the eastern shores of the North Sea.
W. over the eastern parts of England and in the north of France - but
S. again in Ireland and the eastern parts of Great Britain.
It is increasing in force at the western stations.

WEATHER

Drill, with rain and snow in places to the eastward of the North Sea.
Fine and bright over Scotland and the greater part of England.
Drill and unsettled, with local showers, and unsettled appearances in the west.

SEA

Rough and rising at Valencia, moderate in the southwest generally and in the far north, slight to smooth in the Channel, very smooth on our northern coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is approaching our extreme western coast from the Atlantic, and as it advances the S. (SE to SW) wind is ^{likely to} become general and to blow hard in many places; much rain is probable over our Islands.

FORECASTS

for the 24 hours ending at NOON on 4th JANUARY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	S th Winds, moderate, with rain.	6 { SCOTLAND WEST	S th Winds, strong, perhaps a gale; mild, squally rainy.
1 { SCOTLAND EAST	..... D° D° D°	7 { ENGLAND N. W.	..... D° D° D°
2 { ENGLAND N. E.	SW th and S th winds, fair to showery, milder.	8 { ENGLAND S. W.	S th gales and rain, mild.
3 { ENGLAND EAST	Same as No 5	9 { IRELAND NORTH	..... D° D° D°
4 { MIDLAND COUNTIES	Same as No 2.	10 { IRELAND SOUTH	..... D° D° D°
5 { ENGLAND SOUTH	SV th and S th winds, increasing in force; fair to squally and rainy.	WARNINGS	
		The S. cone has been hoisted this morning in districts 6 to 10. [At Noon in district 5 also.]	

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.36	36	34	W 8	S	5	Holyhead ...	29.25	39	39	W 2	T	2
Sumburgh Head ...	28.91	39	39	S 2	O	3	Valencia ...	29.34	46	41	W 4	bc	4
Stornoway ...	28.96	38	38	SW 4	T	4	Scilly ...	29.32	46	43	W 6	bc	5
Aberdeen ...	29.08	33	32	SSW 2	b	1	Dungeness ...	29.38	44	42	SSW 5	O	4
Shields ...	29.18	41	40	SSW 3	of	2	London ...	29.38	46	44	SSW 4	om	*
Ardrossan ...	29.16	41	39	S 1	bc	2	Yarmouth ...	29.38	40	39	S 4	c	4
Malin Head ...	29.10	40	38	SSW 4	b	3	Jersey ...	29.25	45	44	SSW 5	T	5
Mullaghmore ...	29.16	42	39	SW 5	b	2	Rocheport ...	29.47	49	48	SW 7	T	3
Belmullet ...	29.18	45	41	WSW 3	bc	*							

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

The reports for yesterday morning showed that pressure was highest 30 in. and upwards over Russia and Austria, and lowest 29.0 in. and less, in a depression which lay off the northwest of Scotland. Secondary disturbances were, however, lying over the Irish Sea and the St George's and Bristol Channels, and the barometer was falling over nearly the whole of Western Europe. The wind was NW⁷ in the southwest of our Islands and SW⁷ in the north, but elsewhere it varied between S. and SE. and over England, the North Sea and the west of France it was fresh or strong in force. The weather was fine in Denmark as well as at several of the German and Irish stations, but dull elsewhere, with snow in Scotland, and rain in the west of England and south of France. Temperature has risen rapidly over England, Belgium and France, and to a less extent over Northern Russia, but fallen in most other localities. The reports from Spain and Algeria were nearly all wanting, but elsewhere readings ranged from 50° and upwards in the extreme south of Italy, and France to several degrees below zero over many parts of Russia, Austria, and Germany. The highest individual readings were 57° at Algiers, 55° at Lisbon, 54° at Biarritz, 52° at Palermo, and 50° at Perpignan, Langunaire and Cagliari; the lowest were -25° at Raccon, -14° at Warsaw, -11° at Munich, -9° at Moscow, -6° at Breslau, -4° at Memel, -3° at Odessa and Kiev, and 0° zero at Nicolaiiff.

In the course of the day the depression off the northwest of Scotland moved away in a NE¹ direction, while the secondary disturbance over our western coast advanced eastward over England. The latter occasioned heavy rain in many places, but in Scotland the weather improved materially towards evening.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 4th JANUARY 1887.
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.71	16	S	4	S	29.83	- .02	7	7	- .5	NW	2	b	*	27	7	0.63
	Hernösand ...	29.76	26	S	2	b	29.99	+ .23	24	23	- .2	L	0	c	*	30	24	0.35
	Stockholm ...	30.05	30	SSW	2	0	30.32	+ .27	30	29	0	SW	2	0	*	34	27	-
	Wisby ...	30.13	31	SSE	4	0	30.22	+ .22	34	32	+ .7	WSW	2	0	*	?	23	-
	Bodö ...	29.61	25	ENE	4	0	29.69	+ .07	21	19	0	ENE	2	b	1	23	19	-
	Christiansund...	29.89	38	SW	6	r	29.77	+ .38	40	37	+ .3	L	0	0	4	40	36	0.08
	Skudesnaes ...	29.87	42	SSW	4	b	29.91	+ .38	42	40	+ .3	SSE	8	0	5	43	39	-
	Christiania Fjord (Fæder)	29.92	24	SW	3	f	30.11	+ .46	37	37	+ .3	SSW	3	f	2	?	34	-
	Skagen (The Scaw)	30.02	32	SW	1	0	30.17	+ .52	29	29	- .3	SW	1	0	1	32	28	0.04
	Fanö ...	30.08	34	L	0	0	30.21	+ .51	28	28	+ .1	SE	4	f	*	34	27	-
BRITISH ISLANDS.	Sumburgh Head	29.55	42	WSW	4	c	29.34	+ .09	44	44	+ .3	SSE	6	r	6	45	41	0.43
	Stornoway ...	29.46	43	SW	6	r	29.02	- .32	49	49	+ .10	SW	9	r	7	49	38	0.83
	Wick ...	29.60	41	S	4	0	29.23	- .19	44	44	+ .7	S	7	ow	5	44	35	0.12
	Nairn ...	29.57	43	SW	1	b	29.20	- .23	50	46	+ .12	SSW	6	c	4	50	35	0.01
	Aberdeen...	29.72	41	S	4	0	29.43	- .09	43	42	+ .8	S	8	r	6	44	34	0.24
	Leith ...	29.70	49	W	2	b	29.45	- .16	52	48	+ .13	W	6	bg	*	52	44	0.01
	Shields ...	29.84	39	SSW	3	c	29.65	- .05	43	42	+ .4	S	7	0	2	43	36	-
	Spurn Head ...	30.00	38	SSW	3	bc	29.88	+ .09	40	39	+ .3	SSE	5	cgr	4	41	35	0.01
	York ...	29.98	36	S	1	bc	29.81	+ .02	42	41	+ .6	S	3	m	*	43	35	-
	Loughborough	29.98	37	SE	2	0	29.87	+ .04	43	41	+ .11	SSE	4	cgr	*	46	31	-
GERMANY.	Ardrossan ...	29.66	45	S	5	r	29.39	- .23	48	47	+ .6	S	8	r	7	48	37	0.10
	Malin Head ...	29.44	45	S	6	bc	29.16	- .41	50	50	+ .13	S	6	ogr	5	52	37	0.10
	Mullaghmore ...	29.40	50	SSE	8	ogr	29.19	- .38	50	49	+ .8	SW	6	r	5	50	42	0.42
	Belmullet ...	29.34	47	S	6	r	29.16	- .40	45	44	+ .4	SSW	3	0	*	52	41	0.83
	Donaghadee ...	29.64	47	S	5	0	29.40	- .26	49	48	+ .14	S	8	0	5	49	35	0.32
	Barrow-in-Furness	29.81	29	SE	4	bc	29.61	- .10	44	42	+ .3	ESE	7	r	*	44	38	0.04
	Liverpool (Bidston)	29.84	40	SE	4	b	29.68	- .08	45	43	+ .6	SSE	6	0	4	47	38	-
	Holyhead ...	29.75	45	S	5	0	29.54	- .19	46	45	+ .3	SSE	8	rmq	6	48	43	0.38
	Parsonstown ...	29.51	48	SE	4	r	29.28	- .36	51	50	+ .14	SE	4	r	*	53	36	0.37
	Valencia ...	29.33	51	SSE	8	rgw	29.17	- .36	52	51	+ .3	SSE	6	rg	6	54	48	0.88
FRANCE & NETHERLANDS.	Roche's Point...	29.54	47	S	6	r	29.32	- .34	50	50	+ .4	SSE	8	r	7	50	46	1.45
	Pembroke ...	29.76	45	S	6	c	29.59	- .20	48	47	+ .1	SSE	8	og	8	49	46	0.12
	Scilly ...	29.75	50	S	7	ow	29.54	- .26	50	49	+ .3	SSE	9	0	7	51	47	0.05
	Prawle Point ...	29.96	48	S	5	bc	29.80	- .12	46	44	+ .4	SE	6	ow	6	49	40	-
	Jersey ...	30.07	46	SE	3	bmm	29.94	- .04	43	41	- .1	S	6	bmm	5	49	42	0.01
	Hurst Castle ...	30.03	44	S	5	b	29.94	+ .02	44	42	+ .6	S	7	bc	3	48	33	-
	Dungeness ...	30.08	44	W	4	c	30.06	+ .18	42	40	+ .7	SSW	4	c	3	47	35	-
	London ...	30.05	41	SSW	3	0	29.99	+ .09	42	40	+ .10	S	3	bc	*	47	32	-
	Oxford ...	29.97	39	SE	3	b	29.92	+ .03	42	40	+ .8	S	4	bc	*	44	33	0.01
	Cambridge ...	30.03	38	S	1	c	29.97	+ .09	40	39	+ .9	S	2	0	*	42	30	0.02
PENINSULA.	Yarmouth ...	30.05	38	SW	3	bc	30.03	+ .20	40	38	+ .6	S	5	c	4	40	32	0.01
	Cuxhaven ...	30.08	34	L	0	r	30.25	+ .53	35	35	+ .4	SW	1	f	*	35	?	0.20
	Berlin ...	30.10	28	S	1	0	30.26	+ .27	32	32	+ .23	S	1	f	*	32	7	-
	Wiesbaden ...	*	*	*	*	*	30.38	+ .39	30	29	+ .5	L	0	a	*	34	27	0.04
	Munich ...	30.24	34	SW	1	c	30.30	+ .25	36	16	+ .1	SE	1	f	*	37	16	-
	The Helder ...	*	*	*	*	*	30.19	+ .44	31	31	- .8	SSE	1	0	*	41	31	0.04
	Brussels ...	30.10	43	S	5	bc	30.07	+ .20	37	36	- .2	S	5	b	3	46	36	-
	Paris ...	30.23	37	SSW	1	b	30.19	+ .23	31	31	- .8	SE	1	bc	*	46	30	-
	Brest ...	29.95	49	SSE	7	0	29.82	- .13	46	45	- .1	SSE	11	0	7	50	41	0.16
	Lorient ...	30.04	47	S	4	b	29.86	- .15	42	41	- .2	SE	7	bc	5	48	39	-
PENINSULA.	Rochefort ...	30.19	45	SSE	4	b	30.02	- .09	37	36	- .3	SSE	5	c	2	50	34	-
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lyons ...	30.28	37	NNW	1	b	30.25	+ .21	29	29	- .2	WSW	1	b	*	47	28	-
	Nice ...	30.09	46	L	0	0	30.21	+ .21	41	39	- .2	E	1	b	2	50	37	-
	Perpignan ...	30.19	45	L	0	b	30.20	+ .08	34	34	- .11	L	0	0	*	58	31	-
	Biarritz ...	30.11	50	ESE	3	b	29.93	- .18	51	42	+ .5	SSE	4	b	1	57	41	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.03	56	SSE	4	bc	29.84	- .26	56	55	+ .6	S	8	r	?	61	?	0.08
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

For Explanation of Columns, see p. 1. † Received too late for insertion in Charts.

WEATHER

CHARTS

for 8 a.m. on

WEDNESDAY.

4TH January.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — force above 10; — force 8 to 10;
 — force 5 to 7; — force 1 to 4;
 ○ — dead calm.

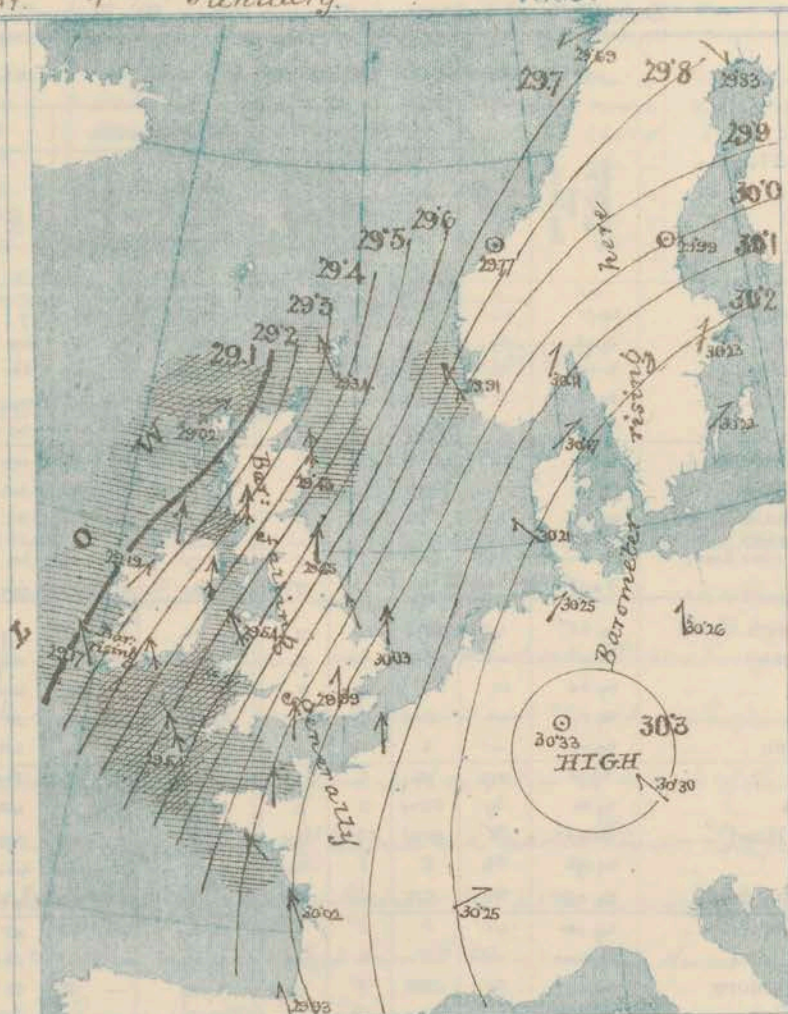
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.950
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



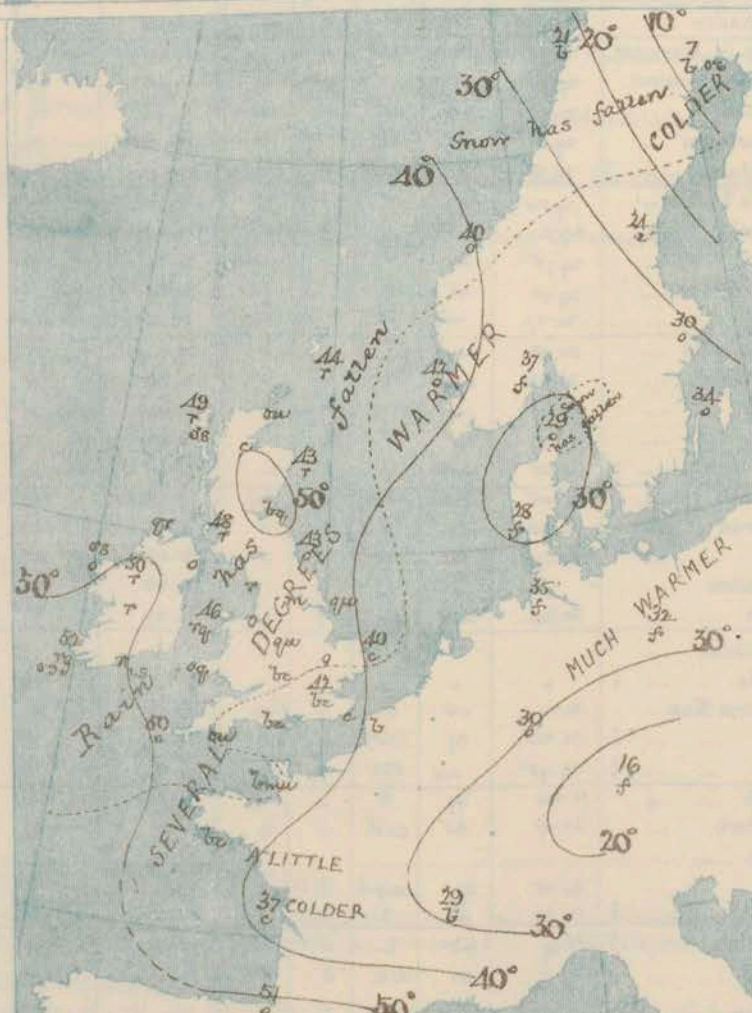
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry	Wet	
Sumburgh Head	42.9	30.4	39.4	38.2	3.06
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.8	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	46.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.69
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.3 ins. and upwards in an anticyclone lying over western Germany. Lowest 29.1 ins. and less in a depression, the centre of which is skirting the Hebrides in a north-northeasterly direction. Gradients steep over our islands, and the northern part of the North Sea. Barometer falling over the United Kingdom and France, but rising in Sweden, Denmark and Germany.
TEMPERATURE	Highest 56° at Lisbon, 52° at Leith and Valencia, 51° at Parsonstown and Biarritz, 50° at Naum, Malin Head, Mullaghmore, Roches Point and Scilly. Lowest 7° at Haparanda, 16° at Munich, 21° at Porto, 24° at Kinnisand, 28° at Tano, and 29° at Hagen and Lyons.
WIND	SE and S over the greater part of western Europe; fresh to strong gales reported in the West and North of our islands generally, and strong breezes in the West of France, but light or moderate breezes elsewhere. Light from the SW and in Sweden; variable in Germany.
WEATHER	Fair in the North of Scandinavia, the southeast of England, and the greater part of France. Dull elsewhere, with rain at many of our western and northern stations, and fog over Germany and the South of Denmark. Heavy rain fell yesterday in the West, and solar and lunar halos were seen in many parts of England.
SEA	Very high at Pembroke and high or rough on all our southwestern, western and northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the Hebrides is travelling north-northeastwards and will probably pass away shortly to the northward of Scotland.

At Valencia the barometer has risen slightly since 5 am, but at Scilly it is still falling. Another depression is therefore in all probability advancing towards our southwest coasts, and an increase in the steepness of the gradients is likely to take place over the East and Southeast of England.

FORECASTS

for the 24 hours ending at NOON on 5th January 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	S ^{ly} gales, squally, some rain.	6 SCOTLAND WEST	Same as N ^o 0 and 1.
2 SCOTLAND EAST	D ^o.....D ^o.....D ^o	7 ENGLAND N.W.	SE ^{ly} and S ^{ly} gales; squally, rain at times.
3 ENGLAND N.E.	S ^{ly} winds, increasing to a gale; fair to squally and some rain.	8 ENGLAND S.W.	D ^o.....D ^o.....D ^o
4 ENGLAND EAST	D ^o.....D ^o.....D ^o	9 IRELAND NORTH	D ^o.....D ^o.....D ^o
5 MIDLAND COUNTIES	Same as N ^o 5.	10 IRELAND SOUTH	D ^o.....D ^o.....D ^o
6 ENGLAND SOUTH	SE ^{ly} and S ^{ly} winds, increasing to a gale; squally, some rain.	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 easter 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 easter towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

The SOUTH CONE was hoisted yesterday in districts 0, 1 and 5 to 10 and this morning in districts 2 and 3.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.71	43	44	SSW	6	bc	5	Holyhead ...	29.77	45	43	SSE	4	c	4
Sumburgh Head ...	29.45	43	44	WSW	4	c	4	Valencia ...	29.46	51	50	SSE	8	ring	7
Stornoway ...	29.49	44	39	SW	4	c	4	Scilly ...	29.78	51	50	S	6	c	5
Aberdeen ...	29.59	38	36	SSW	3	b	1	Dungeness ...	30.01	45	43	W	3	bc	3
Shields ...	29.74	43	40	S	2	bc	2	London ...	30.01	47	44	SSW	2	bc	*
Ardrossan ...	29.67	45	43	ESE	4	a	3	Yarmouth ...	29.96	39	38	W	2	bc	3
Malin Head ...	29.47	42	42	S	5	c	4	Jersey ...	30.04	47	45	SSE	3	bc	3
Mallaghmore ...	29.45	42	46	SSE	8	c	6	Rocheport ...	30.17	48	46	SSE	4	b	2
Belmullet ...	29.40	47	47	S	6	o	*								

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

The reports for yesterday morning showed that pressure varied from between 30.1 ins. and 30.3 ins. over the North of Russia and the Baltic Provinces, and from 30.1 ins. and more over the Iberian Peninsula, to rather below 29.9 ins. in a depression near Naples, on the one hand; and to rather below 29.3 ins. off the North of Scotland, on the other.

and S.E. winds were becoming more and more general over western Europe; with high temperatures, but over the East of England a sharp temporary fall of the thermometer had taken place in the night.

Over Russia and Central Europe the frost still held, and in Poland and eastern Germany it was even severer than it had previously been in those regions.

The weather was showery and unsettled - especially in the neighbourhood of the British Islands.

Temperature ranged from several degrees below zero F. over Poland and eastern Germany and from below 15° over Lapland to upwards of 40° at several of our western and southern stations as well as over Spain and the Mediterranean.

The lowest individual values were -19° F. at Larecow, -9° at Warsaw and Lemberg, -7° at Prague, 0° zero at Moscow, +2° at Nou Fahrwasser, 4° at Breslau, 5° at Memel, 7° at Kharkov and Kiev, 9° at Berlin, 11° at Budapest, 12° at Naparanda, 15° at Munich, 25° at Wiesbaden, and 32° in London; the highest were 59° at Algiers, 57° at San Fernando, 54° at Oporto, 52° at Cagliari and Palermo, 51° at Sanguinaire, 49° at Valencia and 47° at Scilly and Pembroke.

Later on S. gales prevailed all over Ireland and Scotland, and temperature rose rapidly over England.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday, January 5th 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, E. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.88	0	2	0	b	29.97	+14	-4	-4	-11	Z	0	0	*	27	3	-	
	Hernösand ...	29.90	34	S	4	0	29.97	-02	29	29	+5	Z	0	0	*	36	19	-	
	Stockholm ...	30.22	28	Z	0	0	30.13	-09	34	32	+4	SSW	2	0	*	?	27	-	
	Wisby ...	30.30	35	SW	2	0	30.23	+01	36	35	+2	SW	4	0	*	37	28	-	
	Bodö ...	29.83	20	ENE	2	b	29.81	+12	27	22	+6	ENE	4	0	2	?	18	-	
	Christiansund...	29.69	39	ESE	3	0	29.68	-09	40	39	0	ESE	3	0	3	40	37	0.28	
	Skudesnaes ...	29.89	42	ESE	8	0	29.84	-07	39	36	-3	SSE	8	0	6	43	?	-	
	Christiania Fjord (Farder)	30.10	36	SW	4	m	30.08	-03	37	36	0	S	3	0	3	37	34	-	
	Skagen (The Seaw)	30.16	31	SW	6	0	30.09	-08	33	33	+4	SW	4	0	3	33	?	-	
	Fanö ...	30.17	29	SE	6	f	30.06	-15	32	32	+4	SE	6	m	*	32	28	-	
BRITISH ISLANDS.	Sumburgh Head	29.39	46	S	6	0	29.42	+08	44	43	0	SSE	5	0	6	46	42	0.09	
	Stornoway ...	29.16	49	SW	9	T	29.28	+26	42	42	-7	S	3	0	4	50	40	0.25	
	Wick ...	29.36	48	SSW	4	0	29.30	+07	43	43	-1	SW	3	6	3	48	42	0.05	
	Nairn ...	29.34	52	SW	2	C	29.34	+14	50	46	0	SW	3	0	3	52	43	-	
	Aberdeen...	29.51	44	S	6	0	29.47	+04	42	41	-1	S	5	7	5	47	40	0.05	
	Leith ...	29.50	46	SW	1	C	29.40	-05	47	45	-5	S	1	0	*	53	42	-	
	Shields ...	29.63	42	S	6	0	29.52	-13	39	38	-4	S	4	02	3	45	37	-	
	Spurn Head ...	29.84	39	SSW	6	C	29.64	-24	39	38	-1	SSE	4	0	8	43	35	-	
	York ...	29.74	40	S	2	0	29.53	-23	38	37	-4	SSE	1	0	*	44	35	0.01	
	Loughborough	29.73	41	SE	4	0	29.58	-29	42	41	-1	SSE	4	0	*	45	37	0.04	
GERMANY.	Ardrossan ...	29.41	47	SSE	7	0	29.38	-01	44	43	-4	E	3	7	3	46	42	0.24	
	Malin Head ...	29.13	47	S	7	C	29.38	+22	41	40	-9	WNW	2	0	2	51	41	0.77	
	Mullaghmore ...	29.17	46	SW	5	T	29.41	+22	41	40	-9	W	3	0	3	53	40	1.60	
	Belmullet ...	29.21	42	NW	3	0	29.47	+27	44	42	-1	NW	3	0	*	45	40	0.85	
	Donaghadee ...	29.39	46	WNW	5	0	29.35	-05	45	45	-4	S	6	7	4	49	45	0.48	
	Barrow-in-Furness	29.57	43	ENE	5	0	29.45	-16	43	42	-1	E	5	04	*	45	39	0.19	
	Liverpool (Bidston)	29.58	42	SE	6	0	29.44	-24	43	42	-2	SE	4	0	3	46	38	0.04	
	Holyhead ...	29.44	48	S	9	ogm	29.35	-19	47	45	+1	SSE	6	cym	6	51	46	0.10	
	Parsonstown ...	29.26	50	SE	3	T	29.47	+19	40	39	-11	Z	0	0	*	51	39	0.57	
	Valencia ...	29.18	46	N	3	Tg	29.62	+45	47	44	-5	W	3	0	4	53	40	1.52	
FRANCE & NETHERLANDS.	Roche's Point...	29.28	49	S	7	0	29.57	+25	43	41	-7	W	3	6	5	50	40	0.70	
	Pembroke ...	29.47	46	SSE	7	T	29.48	-11	43	42	-5	W	8	09	7	48	43	0.20	
	Scilly ...	29.40	50	SSE	8	0	29.68	+14	45	44	-5	W	7	7	5	51	32	0.05	
	Prawle Point ...	29.63	46	SSE	6	0	29.66	-14	45	44	-1	W	6	0	6	48	44	0.04	
	Jersey ...	29.72	45	SSE	7	ogm	29.78	-16	48	46	+5	W	4	cym	3	48	42	0.14	
	Hurst Castle ...	29.71	44	SSE	7	C	29.68	-26	45	45	+1	SW	7	cyp	4	46	42	0.21	
	Dungeness ...	29.90	41	S	5	C	29.73	-33	43	42	+1	SSW	6	7	4	43	41	0.05	
	London ...	29.80	41	SSE	3	0	29.67	-32	45	43	+3	SSE	4	0	*	45	41	-	
	Oxford ...	29.71	40	SE	5	C	29.62	-30	44	43	+2	SSE	5	02	*	44	39	0.02	
	Cambridge ...	29.82	39	SSE	2	T	29.65	-32	41	40	+1	S	2	0	*	43	35	0.02	
PENIN. SULA.	Yarmouth ...	29.90	39	S	6	Cq	29.72	-31	40	39	0	S	4	0	4	40	36	-	
	Cuxhaven ...	30.26	31	S	2	f	30.09	-16	35	35	0	S	4	0	*	35	31	-	
	Berlin ...	30.32	33	Z	0	0	30.23	-09	21	20	-13	SE	3	6	*	34	19	0.74	
	Wiesbaden ...	*	*	*	*	*	30.12	-21	30	30	0	E	1	6	*	37	30	-	
	Munich ...	30.19	42	Z	0	m	30.15	-15	14	14	-2	SE	3	6	*	32	10	-	
	The Helder ...	30.06	32	SE	3	f	29.86	-30	32	31	-1	SE	1	60	2	34	30	-	
	Brussels ...	*	*	*	*	*	29.89	-30	38	36	+7	ESE	4	0	*	39	?	-	
	Cape Gris Nez...	29.88	37	S	5	C	29.75	-32	41	39	+4	S	5	0	3	41	37	-	
	Paris ...	29.96	40	SE	4	0	29.91	-28	38	36	+7	S	1	0	*	41	?	-	
	Brest ...	29.59	46	SSE	9	0	29.76	-06	47	45	+1	WNW	7	0	7	50	45	0.20	
PENIN. SULA.	Lorient ...	29.67	45	SSE	7	0	29.82	-04	46	45	+4	W	7	0	7	46	39	-	
	Rochefort ...	29.84	44	SE	7	0	30.01	-01	46	46	+9	SW	5	0	2	46	?	0.16	
	Belfort ...	30.15	33	ENE	1	0	30.10	-15	44	41	+15	S	4	0	*	36	15	-	
	Lyons ...	30.09	44	ENE	4	0	30.10	-15	44	41	+15	S	4	0	*	?	?	-	
	Nice ...	30.23	44	ENE	1	0	30.26	+05	38	37	-3	ENE	3	60	2	50	36	-	
	Perpignan ...	30.12	44	Z	0	0	30.06	-14	44	43	+10	SW	1	60	*	53	?	0.04	
	Biarritz ...	29.84	62	S	8	0	30.06	+13	50	48	-1	NW	5	0	2	66	48	-	
	Corunna ...	*	*	*	*	*	30.14	+30	49	48	-7	N	4	6	6	61	48	0.43	
	Lisbon ...	29.95	56	W	4	0	*	*	*	*	*	*	*	*	*	*	*	*	

For Explanation of Columns, see p. 4. † Received too late for insertion in Charts.

WEATHER CHARTS

for 8 a.m. on *Thursday, 5th January, 1888.*

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—
 — forces above 10, — forces 8 to 10,
 — forces 5 to 7, — forces 1 to 4,
 ○—dead calm.

Sea Disturbance—where considerable, is shown thus.

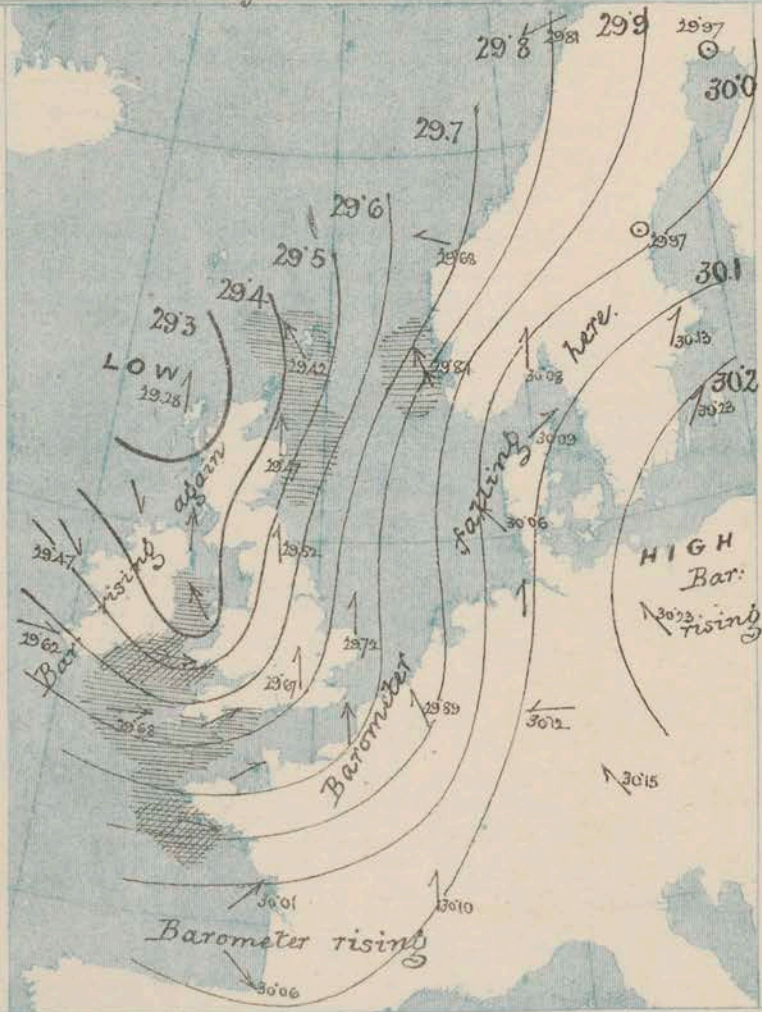
— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.686
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.969
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.067
Oxford	29.997
Cambridge	29.962
Yarmouth	29.961



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature—Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather—is shown by Letters of the Beaufort Scale.
Rainfall—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

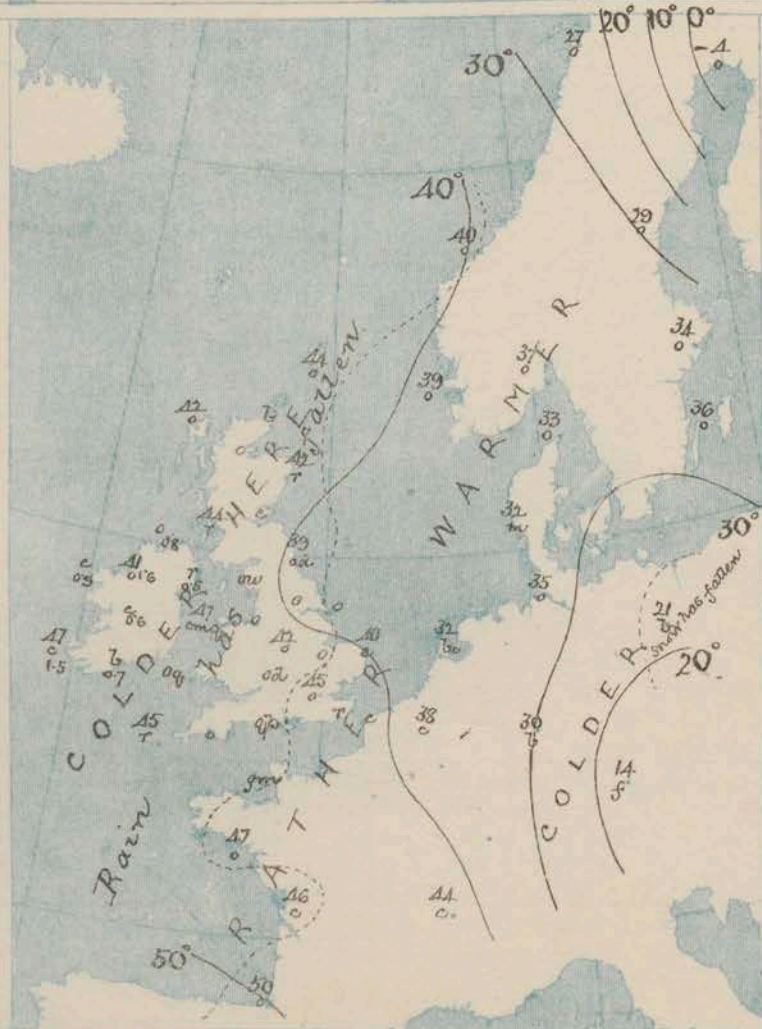
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet at 8 a.m.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.06
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.84
Leith	44.8	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.08
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	6.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.0	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE—The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1868—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins: and more over the Baltic and N. Germany. 30.1 ins: and more over Portugal.
 Lowest, 29.3 ins: and less in a depression off our extreme NW. coasts, 29.3 ins: and less, in a secondary system over the Irish Sea.
 Gradients moderate. Barometer rising fast in W. and N. and rising spreading eastwards. Disturbances apparently filling up.

TEMPERATURE

Highest, 50° at Biarritz, 49° at Lisbon, 48° at Jersey, 47° at Valencia at Holyhead, and 44° at Loughbeg Head.
 Lowest, -4° at Haparanda, +14° at Munich, 21° at Berlin, 21° at Porto, 23° at Huelva, 30° at Marseilles and 39° on our northeast coasts.
 It is now falling, rather decidedly in the west.

WIND

S¹ and SE¹, moderate to fresh, at all stations in the eastern and northern parts of our Islands as well as over the North Sea — SE¹ in Germany.
 W¹, very strong in the eastern part of the Channel, NW¹ and W¹ moderate in Ireland.
 The severe S¹ gale which prevailed in the west and north and northwest yesterday has died down.

WEATHER

Fine and bright in Germany, Holland, and the east of France, dull and showery in the south, east and north of our Islands; fair and apparently improving in the west.
 Heavy rain fell yesterday in Ireland, and smaller amounts in most of our other districts. Little or none fell at the eastern and northeastern stations.

SEA

Very rough on our southwestern coast, rough in the north, rather so in the northeast, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the "V" shaped secondary moves eastwards the wind will probably veer to W. or NW. over Great Britain, with much colder and temporarily finer weather.

FORECASTS

for the 24 hours ending at NOON on 6th JANUARY 1888.

DISTRICTS.


FORECASTS.


0	SCOTLAND NORTH	S ¹ to W ¹ and NW ¹ winds, moderate; colder; some showers.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	Same as N°5
3	ENGLAND EAST	Same as N°5
4	MIDLAND COUNTIES	Same as N°5
5	ENGLAND SOUTH	S ¹ breezes, fresh, mild, with some showers, then NW ¹ breezes, moderate, fair, colder.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Wind backing to NW. or W; weather cold but fair.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	NW ¹ winds, moderate; some cold showers but fair generally. Wind backing later.
9	IRELAND NORTH	-----D°-----D°-----D°-----
10	IRELAND SOUTH	-----D°-----D°-----D°-----
WARNINGS		The signals have all been lowered this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.87	42	41	SSE 9	r	6	Holyhead ...	29.49	48	44	S 8	om qf	6
Sumburgh Head ...	29.87	46	45	S 6	o	6	Valencia ...	29.09	52	51	S 8	rm	6
Stornoway ...	29.17	47	47	SW 6	r	5	Scilly ...	29.42	57	50	SSE 9	o w	7
Aberdeen ...	29.42	47	45	S 8	c qf	7	Dungeness ...	29.94	41	39	S 5	e	4
Shields ...	29.64	45	42	S 7	o	2	London ...	29.67	44	41	SSE 4	o	*
Ardrossan ...	29.42	47	46	SSE 7	r	7	Yarmouth ...	29.97	39	38	S 5	c q	4
Malin Head ...	29.11	51	49	S 7	o	6	Jersey ...	29.79	44	40	SSE 7	o	5
Mullaghmore ...	29.09	53	51	SSE 9	r	6	Rochefort ...	29.90	44	41	SE 7	o	2
Belmullet ...	29.16	45	45	W 2	r	*							

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

The reports for yesterday morning showed that pressure varied from 30.3 ins. and more over the whole of Central and Eastern Europe to about 29.0 ins. and less in a large depression the centre of which lay off the extreme northwest coast of the British Isles. Gradients were steep over the United Kingdom, slight on the Continent. S³ winds prevailed over Western Europe, varying in force from a moderate or light breeze on our southeastern coasts and on the eastern shores of the North Sea to a strong gale in the western and northern parts of the United Kingdom, and were accompanied by mild rain, squally weather, while over Central Europe there were variable air and dry but cold frosty weather. Temperature, however, had risen fast in our Islands and to some extent even at most of the Continental stations, though still very low over Russia, so that the lowest readings at 8 am were -4° at Moscow, -3° at Warsaw, +5° at Kiev, 7° at Helsingfors, 8° at Kharkov, 3° at New Tahravassan, 10° at Breslau and Memel, 16° at Munich, 21° at Bodo, 31° at Paris, and 42° in London; the highest were 53° at Malta, 56° at Lisbon, 52° at Valencia (Ireland), 51° at Palermo, 50° at Scilly and Mullaghmore.

Later on the S³ gale blew with great severity in the west of our the British Islands and much rain fell. The wind subsequently veered to W. or NW. in Ireland and lulled.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 6th JANUARY

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.03	0	2	0	o	29.92	- .05	8	8	+ 12	2	0	o	*	?	-13	—	
	Hernösand ...	29.95	30	5	2	o	29.79	- .18	28	28	- 1	2	0	o	*	37	27	0.04	
	Stockholm ...	30.08	33	WSW	2	o	29.96	- .17	30	29	- 4	SSW	2	f	*	36	25	—	
	Wisby ...	30.14	33	SW	4	c	29.99	- .24	32	31	- 4	WSW	4	o	*	37	32	—	
	Bodö ...	29.76	31	ENE	5	s	29.55	- .16	31	29	+ 4	ENE	5	c	3	36	27	—	
	Christiansund...	29.64	37	SW	4	c	29.58	- .10	38	36	- 2	2	0	o	4	39	34	0.04	
	Skudesnaes ...	29.81	39	S	8	b	29.74	- .10	41	39	+ 2	SSE	8	r	6	41	39	—	
	Christiania Fjord (Færd)	29.64	37	S	2	m	29.85	- .23	35	35	- 2	S	3	r	3	37	34	—	
	Skagen (The Scaw)	29.97	30	S	4	b	29.88	- .21	36	34	+ 3	SW	2	o	3	?	30	—	
	Fanö ...	29.91	32	SE	4	o	29.99	- .07	34	34	+ 2	S	4	f	*	34	28	—	
BRITISH ISLANDS.	Sumburgh Head	29.45	44	SSE	3	r	29.61	+ .19	42	41	- 2	WSW	3	bc	4	45	38	0.34	
	Stornoway ...	29.51	44	SW	3	b	29.60	+ .32	44	44	+ 2	S	6	o	5	44	37	0.02	
	Wick ...	29.51	42	2	0	r	29.71	+ .41	40	39	- 3	S	2	bc	2	44	35	0.25	
	Nairn ...	29.55	42	SW	1	b	29.71	+ .37	40	37	- 10	SSW	2	c	1	42	35	0.04	
	Aberdeen...	29.52	41	SSW	1	r	29.80	+ .33	36	34	- 6	SW	1	b	3	43	33	0.23	
	Leith ...	29.67	46	W	1	r	29.85	+ .45	41	39	- 6	S	1	cm	*	49	38	0.23	
	Shields ...	29.54	43	WSW	1	m	29.95	+ .43	37	35	- 2	SSW	2	bc	2	44	34	—	
	Spurn Head ...	29.65	43	SSE	3	bc	30.00	+ .36	36	35	- 3	S	2	bc	2	47	35	0.01	
	York ...	29.62	44	WSW	4	o	30.03	+ .45	35	34	- 3	S	1	f	*	46	33	—	
	Loughborough	29.77	45	WSW	5	c	30.08	+ .50	35	35	- 7	SSE	2	c	*	48	35	—	
GERMANY.	Ardrossan ...	29.63	45	WNW	3	c	29.82	+ .44	45	43	+ 1	SSW	4	o	3	45	42	0.55	
	Malin Head ...	29.70	43	WNW	2	o	29.60	+ .22	45	44	+ 4	S	5	o	3	45	37	0.02	
	Mullaghmore ...	29.70	43	W	3	b	29.62	+ .21	48	46	+ 7	SSE	7	ogm	6	49	38	0.02	
	Belmullet ...	29.76	41	S	1	b	29.61	+ .14	49	46	+ 5	WSW	9	o	*	49	40	0.05	
	Donaghadee ...	29.72	42	W	3	o	29.83	+ .48	43	43	- 2	SSW	4	o	2	46	33	0.30	
	Barrow-in-Furness	29.69	43	W	3	o	29.96	+ .51	39	38	- 4	SE	4	bc	*	44	38	0.05	
	Liverpool (Bidston)	29.73	43	WSW	6	b	30.01	+ .57	39	37	- 5	SSE	3	o	3	46	37	0.04	
	Holyhead ...	29.77	45	W	5	b	29.94	+ .59	44	43	- 3	S	5	om	5	46	41	0.02	
	Parsonstown ...	29.84	40	2	0	b	29.79	+ .32	48	46	+ 8	S	2	o	*	48	36	—	
	Valencia ...	29.88	42	SE	1	bc	29.51	+ .19	51	48	+ 4	SW	6	cm	5	52	41	0.09	
FRANCE & NETHERLANDS.	Roche's Point...	29.89	43	WNW	2	b	29.86	+ .29	48	48	+ 5	SW	5	rm	5	49	41	0.12	
	Pembroke ...	29.86	47	W	4	b	30.00	+ .52	47	46	+ 4	S	4	om	4	48	43	—	
	Scilly ...	29.94	48	W	4	b	30.02	+ .34	50	49	+ 5	SSW	6	om	5	50	43	0.08	
	Prawle Point ...	29.98	45	WNW	4	b	30.14	+ .48	47	46	+ 2	SW	5	om	4	49	43	0.02	
	Jersey ...	30.03	45	WNW	3	cpe	30.22	+ .44	44	43	- 4	SW	3	cm	3	57	41	0.10	
	Hurst Castle ...	29.93	43	WSW	5	b	30.16	+ .48	45	42	- 0	SW	3	c	3	47	36	0.04	
	Dungeness ...	29.89	45	WSW	5	b	30.16	+ .43	41	40	- 2	W	3	bw	2	47	40	0.02	
	London ...	29.90	43	WSW	2	bc	30.16	+ .49	34	34	- 11	S	1	bf	*	51	34	—	
	Oxford ...	29.92	40	W	3	b	30.14	+ .52	38	37	- 6	S	1	cm	*	48	37	—	
	Cambridge ...	29.84	40	SE	1	b	30.15	+ .50	38	38	- 3	S	1	om	*	50	34	0.01	
PENIN. SULA.	Yarmouth ...	29.81	41	SW	3	bc	30.10	+ .38	35	34	- 5	WSW	2	bm	3	45	34	—	
	Cuxhaven ...	30.02	32	S	3	f	30.05	- .04	37	37	+ 2	SW	4	f	*	37	32	—	
	Berlin ...	30.15	22	SE	4	b	30.25	+ .02	30	29	+ 9	SSW	2	o	*	30	19	—	
	Wiesbaden ...	*	*	*	*	*	30.22	+ .20	33	32	+ 3	2	0	o	*	36	32	—	
	Munich ...	30.25	9	2	0	m	30.34	+ .19	15	15	+ 1	S	2	bc	*	19	7	—	
	The Helder ...	29.90	38	SSW	4	c	30.09	+ .23	39	39	+ 7	SW	7	f	2	39	32	0.04	
	Brussels ...	*	*	*	*	*	30.44	+ .35	38	38	- 0	SSW	7	f	*	42	37	0.04	
	Cape Gris Nez...	29.90	43	SSW	7	b	30.22	+ .47	44	43	+ 3	SW	5	o	4	46	41	0.08	
	Paris ...	30.09	43	SSW	1	o	30.31	+ .40	35	35	- 3	SW	1	f	*	44	35	—	
	Brest ...	30.05	47	WSW	4	b	30.17	+ .41	46	45	- 1	WSW	7	o	7	52	41	—	

For Explanation of Columns, see p. 4.

WEATHER

CHARTS

for 8 a.m. on Friday, 6th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;
○ = dead calm.

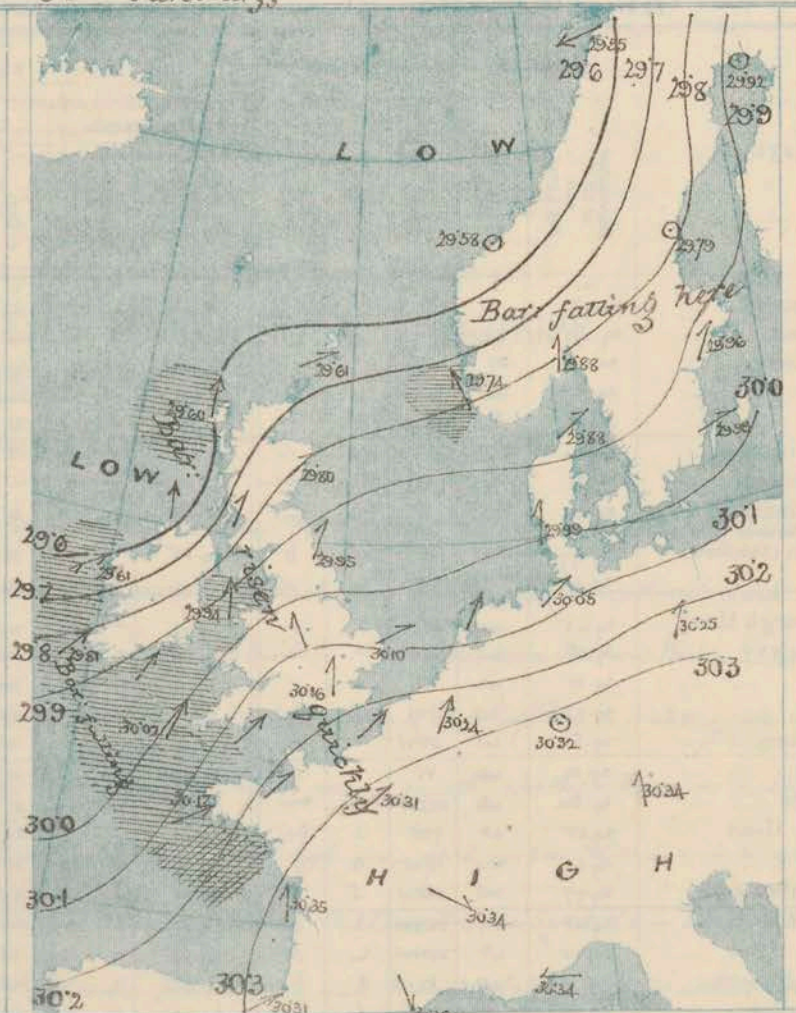
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.940
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.969
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

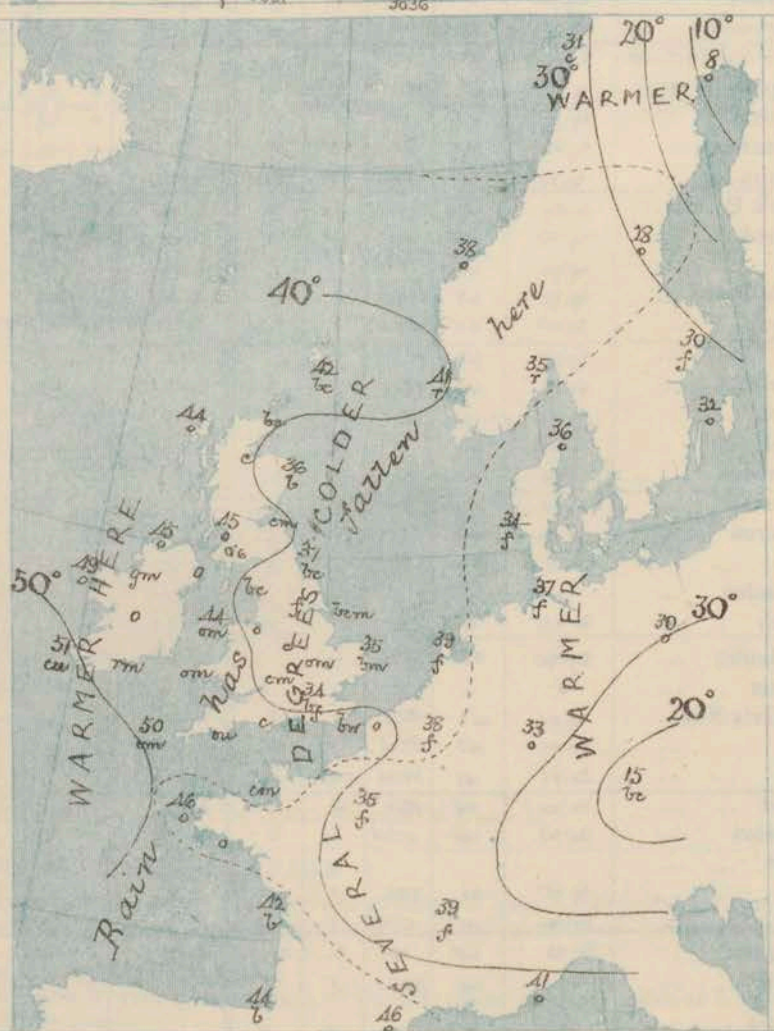
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	2.06
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.89
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	38.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.03
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	2.10
Dover	43.7	36.6	39.4	38.3	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.53
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.3	34.6	37.7	36.9	2.06

Notes — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1868 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: and more, over Germany, France, and Portugal.
Lowest, 29.6 in: and less, off our extreme north-west coast, and in the west of Norway.
Gradients rather steep over our north-western districts, moderate elsewhere.
Barometer falling in the west and north-west, rising elsewhere.

TEMPERATURE

Highest, 51° at Valencia, 50° at Selly, 49° at Bournemouth, 47° at Lisbon, 44° at Stornoway.
Lowest, 8° at Haparanda, 15° at Munich, 36° at Berlin and Stockholm, 34° to 35° over Central England.
It had fallen fast over England during the night, risen fast in Ireland, and the rise was spreading Eth. A new frost was formed over England early this morning.

WIND

NE^{ly} at Bodo, and also in Portugal and the south of France, S^{ly} and SW^{ly} elsewhere.
SW^{ly} gales prevail in the NW. of Ireland, light to fresh breezes in most other places, but a strong breeze at Selly.

WEATHER

Fair in the east, but with fog locally, dull and rather showery in the west.
Raining in the south of Norway.
In London bands of Cirrus cloud were travelling across the sky from NNW. and increasing quickly in amount.

SEA

Rather rough in the west and north-west, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the new disturbance moves eastwards wet unsettled weather is likely to prevail generally, with some increase in the force of the wind from the SWth. The coast of Ireland and the west of Scotland were warmed last night.

FORECASTS

For the 24 hours ending at NOON on 7th January 1888.

DISTRICTS.

FORECASTS.

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

S^{ly} to W^{ly} winds, unsettled, showery.
.....D.....D.....D.....
.....D.....D.....D.....
Same as N^o 5.
Same as N^o 5.
S and SW^{ly} winds; cloudy, rainy, changeable.

DISTRICTS.

FORECASTS.

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

Sh^{ly} winds, strong to a gale; rainy, unsettled.
Sh^{ly} winds; squally, showery.
.....D.....D.....D.....
Sh^{ly} to W^{ly} gales or strong winds; squally, showery, colder.
.....D.....D.....D.....
The SOUTH CONE was rehoisted last evening in districts 6, 9 and 10.

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.80	40	38	S	7	c	6	Holyhead ...	29.60	45	44	W	6	comp	6
Sumburgh Head ...	29.43	42	43	SSE	4	r	7	Valencia ...	29.78	49	46	W	3	om	3
Stormoway ...	29.42	44	43	SW	3	bc	3	Scilly ...	29.86	47	45	W	4	bc	4
Aberdeen ...	29.47	44	41	ESW	2	om	5	Dungeness ...	29.79	46	45	WSW	5	r	4
Shields ...	29.48	44	43	SSW	2	om	2	London ...	29.76	50	47	SW	3	c	*
Ardrossan ...	29.47	45	43	WNW	3	r	2	Yarmouth ...	29.72	45	44	SSW	4	c	4
Malin Head ...	29.53	44	42	NW	4	bc	3	Jersey ...	29.69	51	48	WSW	3	bc	3
Mullaghmore ...	29.62	45	43	NW	4	cp	3	Rocheport ...	30.12	52	49	W	4	bc	4
Belmullet ...	29.68	46	42	WNW	1	b	*								

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental reports for yesterday morning showed that the highest pressures 30.5 ins. and upwards were lying over the central and southern parts of Russia, while the lowest 29.3 ins. and less were found in a depression lying off the northwest of Scotland. Another depression with readings below 29.7 ins. was, however, moving eastwards across the North Sea, while a "V" shaped disturbance, subsidiary to the depression off the Scottish coasts, was lying over the Irish Sea. Moderate NW. and W. winds prevailed in Ireland, strong S winds over Great Britain and SE winds over the Netherlands and the eastern shores of the North Sea. In France however, and over the Baltic and northern Russia the wind was SW, while in Italy it was light from the Northward. The weather was cloudy over the greater part of Europe, with showers in Great Britain and the North of France. Temperature had risen a little over England, France, Denmark, the South of Scandinavia and the greater part of Russia but fallen elsewhere; readings ranged from 50° and upwards in the extreme South of France and in some parts of Algeria to below zero over Lapland as well as over Poland and Central Russia. The highest individual readings were 59° at Algiers, 54° at Oran, 52° at Nemour and Afss, 51° at Sanguinaire and Biskra, and 50° at Croissette, Biarritz and Rimini; the lowest were - 14° Fahr. at Lerasow, - 5° at Uleaborg, - 4° at Haparanda and Kiew, - 2° at Moscow and Warsaw, - 1° at Lemberg, + 6° at Nicolaieff and 7° at Odessa.

In the course of the day the depression off the northwest of Scotland and the secondary disturbance over the Irish Sea both moved eastwards, but in the evening the winds were again backing in the extreme northwest. The weather over England became much colder towards night.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday 7th January

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Secs. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.50	19	Z	0	0	29.47	- .45	17	17	+ 9	Z	0	0	*	19	-2	-	
	Hernösand ...	29.58	26	NW	2	6	29.67	- .12	30	28	+ 2	Z	0	0	*	32	25	-	
	Stockholm ...	29.86	39	NW	2	6c	29.89	- .07	33	32	+ 3	NW	2	0	*	36	28	-	
	Wisby ...	29.99	36	SW	4	0	29.99	- .00	36	35	+ 4	W	6	6	*	34	30	-	
	Bodö ...	29.44	30	ENE	4	0	29.40	- .15	36	?	+ 5	SW	4	7	2	?	24	0.12	
	Christiansund...	29.60	41	SW	6	0	29.51	- .07	40	39	+ 2	Z	0	7	H	41	37	0.08	
	Skudesnaes ...	29.66	42	S	6	c	29.90	+ .16	44	43	+ 3	Z	0	0	S	?	41	-	
	Christiania Fjord (Fjorder)	29.85	36	WSW	5	6	29.86	+ .01	39	38	+ 4	SW	3	5	3	39	35	-	
	Skagen (The Scaw)	29.97	36	W	3	6	29.95	+ .07	36	36	0	SW	2	0	2	37	34	-	
	Fanö ...	30.11	35	SW	2	c	30.08	+ .09	35	35	+ 1	SW	3	5	*	37	34	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.56	43	S	2	0	29.69	+ .08	46	45	+ 4	WSW	4	0	5	48	42	0.06	
	Stornoway ...	29.53	49	WSW	7	6c	29.81	+ .21	45	45	+ 1	W	3	0	3	49	43	0.06	
	Wick ...	29.58	48	SSW	5	0	29.87	+ .16	42	41	+ 2	NW	2	6	1	48	40	0.02	
	Nairn ...	29.64	48	SW	3	6c	29.87	+ .16	45	44	+ 5	Z	0	c	1	50	39	0.01	
	Aberdeen...	29.74	44	SSW	4	c	29.92	+ .12	43	41	+ 7	SW	1	6c	2	46	35	-	
	Leith ...	29.82	42	WSW	3	5	29.98	+ .13	46	45	+ 5	W	3	6	*	50	40	-	
	Shields ...	29.90	45	SW	2	m	30.06	+ .11	45	44	+ 8	SSW	2	7	2	46	36	-	
	Spurn Head ...	30.03	42	SW	2	6c	30.11	+ .11	42	40	+ 6	SW	1	6cm	2	45	36	0.01	
	York ...	29.93	43	SSE	1	6	30.16	+ .13	46	45	+ 11	WSW	1	0	*	46	34	-	
	Loughborough	30.04	46	SW	4	0	30.21	+ .13	44	43	+ 9	WNW	2	c	*	47	35	0.01	
GERMANY.	Ardrossan ...	29.84	47	SW	2	c	30.08	+ .23	46	45	+ 1	W	3	6c	2	47	43	0.04	
	Malin Head ...	29.79	47	SSW	3	6c	30.02	+ .42	46	46	+ 1	WSW	3	0	3	49	45	0.01	
	Mullaghmore ...	29.83	48	SW	5	cm	30.18	+ .51	46	45	- 2	SW	4	cm	3	53	40	0.01	
	Belmullet ...	29.83	48	WSW	5	0	30.09	+ .48	45	47	- 1	SSW	3	0	*	50	47	0.02	
	Donaghadee ...	29.88	46	SW	3	c	30.11	+ .28	42	41	- 1	WSW	3	6	1	49	41	0.02	
	Barrow-in-Fariness	29.93	43	SE	4	0	30.15	+ .19	44	43	+ 5	SW	3	6c	*	45	38	0.05	
	Liverpool (Bidston)	29.97	47	S	2	0	30.19	+ .18	43	42	+ 5	WSW	3	6	3	49	38	0.12	
	Holyhead ...	29.94	48	SW	5	0	30.19	+ .25	45	45	+ 1	WSW	4	cm	H	49	44	0.07	
	Parsonstown ...	29.91	46	Z	0	6	30.18	+ .39	45	44	- 3	SSW	2	0	*	58	43	-	
	Valencia ...	29.96	51	SW	3	0	30.23	+ .42	51	50	0	SSW	4	cm	H	52	48	-	
FRANCE & NETHERLANDS.	Roche's Point...	29.98	49	WSW	1	ca	30.24	+ .38	48	48	0	SW	3	rm	4	51	44	0.05	
	Pembroke ...	29.99	46	S	4	f	30.27	+ .27	47	47	0	WSW	3	cm	3	48	46	0.06	
	Scilly ...	30.04	50	SW	4	f2	30.33	+ .31	48	48	- 2	WSW	2	f	4	51	46	0.13	
	Prawle Point ...	30.10	49	SSW	5	f	30.35	+ .21	47	46	0	W	3	c	4	49	44	0.16	
	Jersey ...	30.22	46	S	4	rgm	30.38	+ .16	49	48	+ 5	WNW	3	cm	3	49	43	0.29	
	Hurst Castle ...	30.14	47	SSW	5	cm	30.29	+ .13	45	45	0	W	2	cf	3	48	41	0.03	
	Dungeness ...	30.18	45	WSW	5	0	30.23	+ .07	45	45	+ 4	WSW	3	0	4	47	40	0.05	
	London ...	30.15	45	SW	3	0	30.26	+ .10	45	44	+ 11	WSW	1	c	*	51	34	0.12	
	Oxford ...	30.10	46	S	3	0	30.27	+ .13	43	43	+ 5	SSW	1	f	*	48	37	0.01	
	Cambridge ...	30.12	45	SW	1	0	30.24	+ .09	44	44	+ 6	WSW	1	6	*	47	36	0.02	
PENINSULA.	Yarmouth ...	30.13	41	SSW	4	c	30.18	+ .08	45	45	+ 10	WSW	2	cm	3	45	34	0.07	
	Cuxhaven ...	30.22	36	SW	3	f	30.24	+ .19	37	37	0	SW	4	f	*	37	36	0.08	
	Berlin ...	30.30	34	SSW	1	0	30.31	+ .06	35	34	+ 5	SW	1	0	*	36	?	0.32	
	Wiesbaden ...	*	*	*	*	*	30.40	+ .08	34	33	+ 1	Z	0	0	*	36	32	-	
	Munich ...	30.41	28	Z	0	6	30.39	+ .05	32	32	+ 17	Z	0	m	*	32	16	0.12	
	The Helder ...	30.18	39	SW	4	f	30.16	+ .07	39	39	0	SSW	5	f	3	41	?	-	
	Brussels ...	*	*	*	*	*	30.30	+ .06	40	40	+ 2	S	4	0	*	41	33	-	
	Cape Gris Nez...	30.22	41	SW	5	0	30.24	+ .02	46	46	+ 2	SW	4	f	2	46	41	0.04	
	Paris ...	30.38	38	SW	3	0	30.35	+ .04	41	41	+ 6	S	3	0	*	?	?	0.08	
	Brest ...	30.14	49	S	5	f	30.41	+ .24	48	47	+ 2	NW	5	f	5	52	39	0.32	
FRANCE & NETHERLANDS.	Lorient ...	30.25	49	SSW	5	7	30.43	+ .16	46	46	0	N	4	f	3	50	43	0.35	
	Rochefort ...	30.40	45	SSW	3	0	30.47	+ .12	46	46	+ 4	NW	4	f	2	48	37	0.24	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	30.46	40	WSW	1	0	30.49	+ .15	35	35	- 4	E	1	f	*	45	34	-	
	Nice ...	30.36	43	SE	1	6	30.35	+ .01	41	40	0	E	3	6	2	50	37	-	
PENINSULA.	Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Barritz ...	30.41	49	E	4	6	30.50	+ .19	47	46	+ 3	SW	4	0	2	55	41	0.20	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENINSULA.	Lisbon ...	30.46	50	NNE	5	6	30.53	+ .14	45	43	- 2	NE	4	6	5	57	43	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Saturday, 7th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4;
○ = dead calm.

Sea Disturbance — where considerable is shown thus.

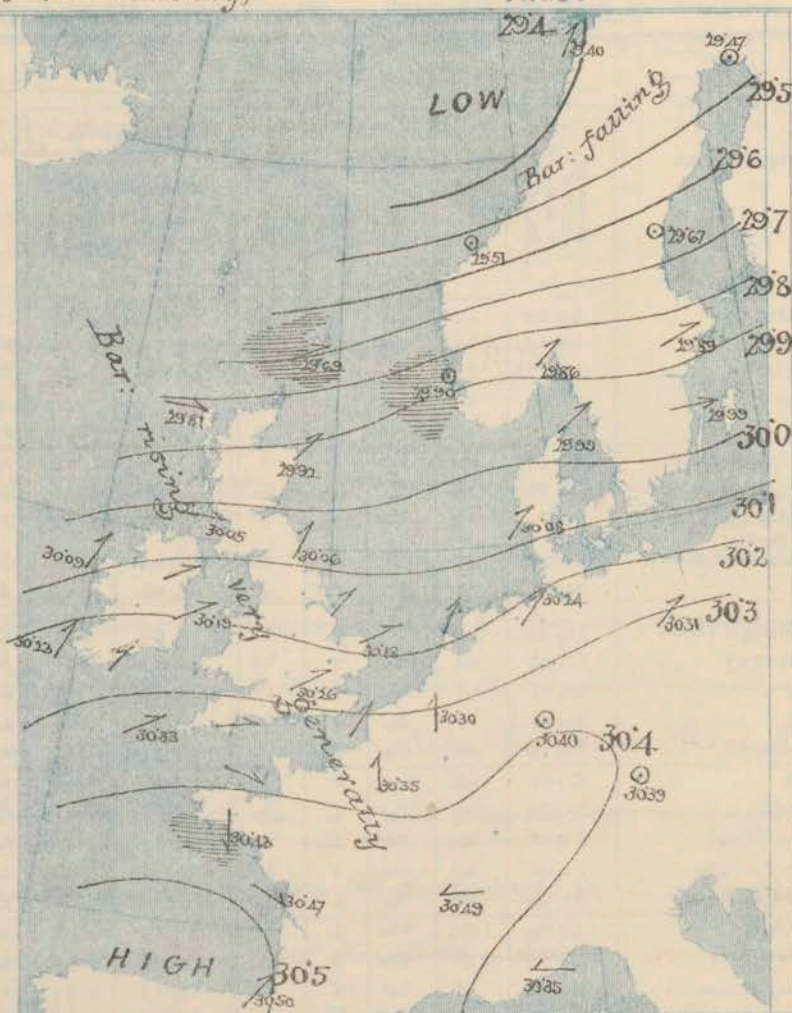
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.

During the 16 Years 1871—1885.

STATIONS.	MEAN READINGS
	in.
Sumburgh Head	29.885
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.861
Holyhead	29.806
Liverpool	29.923
Parsonstown	29.886
Valencia	29.869
Boche's Point	29.894
Pembroke	29.920
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.982
Yarmouth	29.991



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.08
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.92
Aberdeen	42.4	33.2	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.58
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	33.4	39.8	38.5	4.53
Donaghadee	44.4	30.3	39.9	39.1	3.03
Holyhead	43.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Boche's Point	47.9	39.7	42.2	42.0	5.03
Pembroke	45.8	39.9	42.8	41.7	3.92
Scilly	40.1	43.2	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.9	2.20
Oxford	43.8	34.4	37.5	36.5	3.38
Cambridge	43.2	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 16 years 1871—85, the Rainfall means are mainly those for the 30 years 1856—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and upwards in an anticyclone lying over Spain and the southern part of the Bay of Biscay.
 Lowest, 29.4 in. and less in a depression lying off the northwest of Norway.
 Gradients moderate. Barometer rising at all but the northern Scandinavian stations.

TEMPERATURE

Highest, 51° at Valencia, 49° at Jersey, 48° at Belmullet, Rockall, and Scilly and 47° at Lambrook, Howlet Point and Bannity.
 Lowest, 17° at Haparanda, 30° at Helsingfors, 32° at Munich, 33° at Stockholm, 34° at Nicobar, and 35° at Leno, Berlin, and Lyons.

WIND

Light or moderate from SW. or W. over the whole of Northwestern Europe.
 Moderate from NW. or N. in the west of France and from NE. at Lisbon.

WEATHER

Fine in Scotland and the north and east of England.
 Cloudy, or overcast elsewhere, with fog over the Bay of Biscay, the Channel, the Netherlands and the south of Denmark.
 Rain fell yesterday in most parts of the United Kingdom.

SEA

Rather rough at Skudervær, Lumburgh H^d and Lorient and moderate on our west and southern coast, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Spain is inclined to spread northwards and the reports from our western stations give no indication of the advance of any new disturbance. The wind, however, shows no inclination to veer and the general appearance is scarcely settled.

FORECASTS

For the 24 hours ending at NOON on 8th JANUARY 1888.

DISTRICTS.


FORECASTS.


0	SCOTLAND NORTH	W ² to SW ² winds, moderate or fresh; fair to unsettled and some rain.
1	SCOTLAND EAST	----- D° ----- D° ----- D° -----
2	ENGLAND N.E.	Same as N°5
3	ENGLAND EAST	Same as N°5
4	MIDLAND COUNTIES	Same as N°5
5	ENGLAND SOUTH	SW ² and W ² winds, moderate, fair generally but perhaps local showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N°0.
7	ENGLAND N.W.	SW ² winds, moderate or fresh; fair at first less settled later.
8	ENGLAND S.W.	----- D° ----- D° ----- D° -----
9	IRELAND NORTH	----- D° ----- D° ----- D° -----
10	IRELAND SOUTH	----- D° ----- D° ----- D° -----
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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes ...	29.84	43	41	W 2	c	5	Holyhead ...	29.91	47	47	SSW 5	d q	5
Sumburgh Head ...	29.64	43	42	S 1	c	4	Valencia ...	29.84	51	50	SSW 4	o m	4
Stornoway ...	29.39	47	47	SW 9	r	7	Scilly ...	30.01	51	51	SSW 4	o m	4
Aberdeen ...	29.75	40	39	SW 4	o u	3	Dungeness ...	30.12	45	44	W 5	c	3
Shields ...	29.91	40	38	SW 4	o p m	2	London ...	30.15	47	45	SSW 4	o m	*
Ardrossan ...	29.80	47	46	SSW 2	c	1	Yarmouth ...	30.13	38	37	SSW 2	b m	3
Malin Head ...	29.68	48	46	SW 4	b c	3	Jersey ...	30.22	46	45	SSW 2	o	3
Mullaghmore ...	29.76	52	49	SSW 4	b c p	3	Rocheport ...	30.39	47	46	S 4	o	2
Belmullet ...	29.75	50	49	SW 5	b	*							

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

The reports for yesterday morning showed pressure to be varying from between 30.3 ins: and 30.5 ins: over Southeastern and Central Europe to about 29.5 ins: both off the coast of Norway and the northwest of the British Isles. SW^{ly} winds were consequently prevalent over Western and North-western Europe, with mild changeable weather, and in some places showers, while calms and SE^{ly} airs were experienced over the Central, Eastern, and Northern countries with frosty weather and fog in several places. Temperature varied from 50° and more over the Mediterranean and extreme west of our Islands to several degrees below the freezing point over Poland, Southwestern Russia and Northern Europe. The lowest individual values at 8 am were 3° at Warsaw, 9° at Haparanda and New Fahlavassan, 10° at Uleaborg, 11° at Kharkov, 12° at Kiev and Nicolaiiff, 15° at Odessa and Munich, 16° at Riga, 18° at Breslau, 20° at Nantes, 30° at Berlin and Stockholm, 34° in London and 35° at Paris. The highest were 59° at Oran, 58° at Algiers, 55° at Cagliari, 51° at Valencia (Ireland) 50° at Rome, Palermo, Lisbon and Lillo, and 49° at Belmullet.

Later on the mild weather spread further eastwards and the SW^{ly} wind blew hard at several of the extreme northwestern stations.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 8th JANUARY.

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.76	2	Z	0	b	29.97	+ .50	-9	-9	- .26	NE	2	b	*	19	?	0.08	
	Hernösand ...	29.67	31	Z	0	o	29.98	+ .31	24	23	- .6	NE	2	s	*	34	16	-	
	Stockholm ...	29.89	37	Z	0	o	29.97	+ .08	32	31	- .1	SW	2	f	*	37	32	-	
	Wisby ...	29.96	37	W	4	o	29.96	- .03	38	37	+ .2	W	2	o	*	39	34	-	
	Bodö ...	29.66	31	N	2	o	29.73	+ .33	25	22	- .11	N	4	b	2	36	?	-	
	Christiansund...	29.69	41	WSW	0	o	29.69	+ .18	40	38	0	SE	4	o	5	41	37	0.17	
	Skudesnaes ...	29.99	43	SSW	2	r	29.89	- .01	44	43	0	S	4	r	4	?	43	-	
	Christiania Fjord (Færder)	29.90	39	WSW	4	b	29.92	+ .06	36	35	- .3	WSW	3	c	2	39	36	-	
	Skagen (The Scaw)	29.97	39	W	3	o	30.00	+ .05	39	39	+ .3	W	4	o	3	39	36	-	
	Fanö ...	30.15	36	WSW	4	o	30.29	+ .21	37	37	+ .2	WSW	2	r	*	37	?	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.85	45	W	2	o	29.72	+ .03	48	48	+ .2	W	4	o	4	49	39	0.19	
	Stornoway ...	29.80	49	SW	7	r	29.93	+ .12	52	52	+ .7	W	6	o	5	52	42	0.20	
	Wick ...	29.89	45	S	3	r	29.91	+ .04	54	53	+ .12	W	4	c	2	54	40	0.12	
	Nairn ...	29.92	48	SW	1	o	29.96	+ .09	53	51	+ .8	W	3	c	1	53	48	0.01	
	Aberdeen...	30.01	45	SW	1	r	30.04	+ .12	49	48	+ .6	WSW	2	bc	1	50	40	0.06	
	Leith ...	30.07	47	SW	2	c	30.15	+ .17	53	52	+ .7	W	4	c	2	53	45	-	
	Shields ...	30.16	48	SW	2	o	30.20	+ .14	51	49	+ .6	W	4	c	2	52	44	-	
	Spurn Head ...	30.23	45	SW	1	c	30.33	+ .22	44	43	+ .2	WSW	2	bc	2	46	40	-	
	York ...	30.26	47	S	1	o	30.34	+ .18	50	49	+ .4	W	3	o	*	50	44	-	
	Loughborough	30.34	47	WSW	4	o	30.41	+ .20	48	46	+ .4	SSE	2	o	*	51	43	-	
GERMANY.	Ardrossan ...	30.12	47	SSW	3	r	30.25	+ .20	50	50	+ .4	SSW	4	o	3	50	45	0.02	
	Malin Head ...	30.03	49	SSW	4	om	30.21	+ .19	48	48	+ .2	W	4	o	4	50	40	-	
	Mullaghmore ...	30.13	51	SW	5	om	30.30	+ .17	51	50	+ .5	SW	5	om	4	53	45	-	
	Belmullet ...	30.12	50	SW	6	o	30.31	+ .22	49	49	+ .1	SSW	5	o	*	51	47	0.05	
	Donaghadee ...	30.17	50	SSW	4	b	30.30	+ .19	52	51	+ .10	SW	2	bc	0	52	40	-	
	Barrow-in-Furness	30.24	44	SE	4	b	30.36	+ .21	46	46	+ .2	SSW	1	bc	*	46	42	0.05	
	Liverpool (Bidston)	30.30	47	SW	4	c	30.41	+ .22	52	49	+ .9	S	1	o	2	52	43	0.01	
	Holyhead ...	30.27	47	SSW	5	omg	30.39	+ .20	48	48	+ .3	SSW	5	omg	5	49	45	0.01	
	Parsonstown ...	30.24	51	SW	2	o	30.42	+ .24	51	50	+ .6	SW	3	o	*	53	43	-	
	Valencia ...	30.27	51	SSW	5	omd	30.48	+ .25	51	50	0	S	4	om	4	54	50	0.02	
FRANCE & NETHERLANDS.	Roche's Point...	30.32	49	WSW	3	rm	30.48	+ .24	49	48	+ .1	W	2	om	4	50	45	0.18	
	Pembroke ...	30.37	47	SSW	4	f	30.49	+ .22	48	48	+ .1	NNW	3	f	3	48	46	0.03	
	Seilly ...	30.43	49	SSW	4	o	30.54	+ .21	50	50	+ .2	SW	4	f	4	51	47	0.03	
	Prawle Point ...	30.48	46	WSW	4	f	30.58	+ .23	48	48	+ .1	WSW	4	f	4	49	44	0.13	
	Jersey ...	30.53	47	NW	3	of	30.64	+ .26	46	45	- .3	W	3	of	3	49	44	0.03	
	Hurst Castle ...	30.46	44	SW	5	bc	30.54	+ .25	45	45	0	WSW	2	f	3	47	43	0.01	
	Dungeness ...	30.40	45	WNW	3	c	30.49	+ .26	45	45	0	W	6	f	3	50	44	-	
	London ...	30.42	46	WSW	3	c	30.51	+ .25	47	46	+ .2	WSW	1	o	*	50	42	-	
	Oxford ...	30.42	46	SSW	3	o	30.51	+ .24	48	47	+ .5	SW	2	o	*	49	43	-	
	Cambridge ...	30.36	43	WSW	1	c	30.46	+ .22	47	47	+ .3	SW	1	b	*	51	42	-	
PENIN. SULA.	Yarmouth ...	30.32	43	W	2	b	30.47	+ .29	45	44	0	W	3	b	2	47	41	-	
	Cuxhaven ...	30.24	37	SW	4	o	30.32	+ .08	39	39	+ .2	SW	4	f	*	39	37	0.22	
	Berlin ...	30.29	36	SSW	2	r	30.36	+ .05	38	38	+ .3	W	4	f	*	38	35	0.24	
	Wiesbaden ...	*	*	*	*	*	30.56	+ .16	36	36	+ .2	S	1	o	*	37	32	-	
	Munich ...	30.50	2	W	4	o	30.59	+ .20	36	36	+ .4	W	5	o	*	37	32	0.04	
	The Helder ...	30.29	40	WSW	3	b	30.35	+ .19	42	42	+ .3	WSW	4	o	3	43	29	-	
	Brussels ...	*	*	*	*	*	30.52	+ .22	41	41	+ .1	SW	4	f	*	45	40	0.12	
	Cape Gris Nez...	30.39	43	SW	4	c	?	?	45	45	- .1	SW	5	f	4	46	?	-	
	Paris ...	30.53	45	WSW	1	o	30.65	+ .30	34	34	- .7	S	1	o	*	46	33	0.04	
	Brest ...	30.36	46	SW	4	m	30.60	+ .19	47	45	- .1	SW	3	m	5	52	45	0.16	
FRANCE & NETHERLANDS.	Lorient ...	30.57	40	WNW	1	f	30.65	+ .25	49	47	+ .1	SSW	3	f	5	?	43	0.04	
	Rocheport ...	30.63	46	NW	4	m	30.75	+ .28	42	42	- .4	SSE	3	f	2	48	37	-	
	Belfort ...	30.51	36	NW	1	o	30.62	?	35	34	?	NW	1	o	*	39	33	0.08	
	Lyons ...	30.69	37	ESE	1	f	30.69	+ .20	41	40	+ .6	NNW	4	c	*	42	35	-	
	Nice ...	30.39	44	E	1	b	30.47	+ .12	45	38	+ .4	E	1	b	2	57	39	-	
	Perpignan ...	30.52	51	NW	4	c	30.58	?	47	46	?	NW	4	b	*	52	46	-	
	Biarritz ...	30.62	51	NW	1	f	30.71	+ .21	46	46	- .1	NE	3	f	2	54	45	0.04	
	Corunna ...	*	*	*	*	*	30.66	?	42	42	?	? 2	0	b	4	61	39	-	
	Lisbon ...	30.54	53	NE	5	b	30.57	+ .04	46	40	+ .1	NE	7	b	2	57	45	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Sunday, 8th January.

1888.

BAROMETER, WIND & SEA.

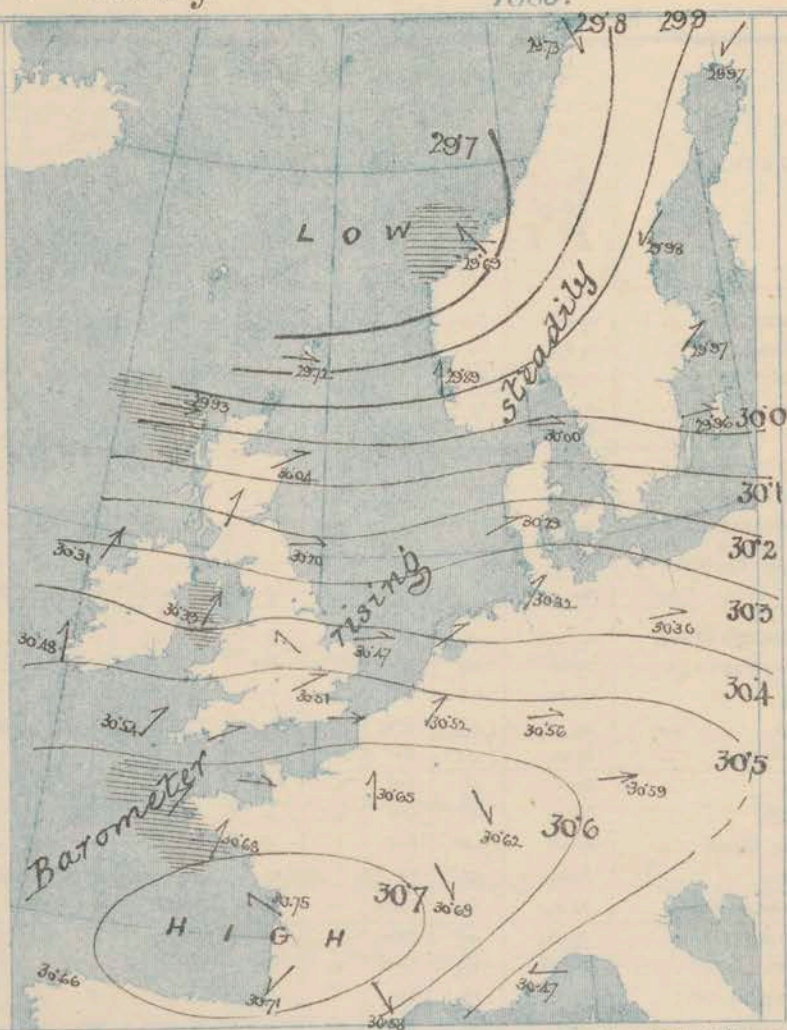
(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 → = forces above 10; →→ = forces 8 to 10;
 →→ = forces 5 to 7; → = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance — where considerable, is shown thus:
 ■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER
 at 8 a.m. for the month of January.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.686
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.923
Parsonstown	29.896
Valencia	29.969
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



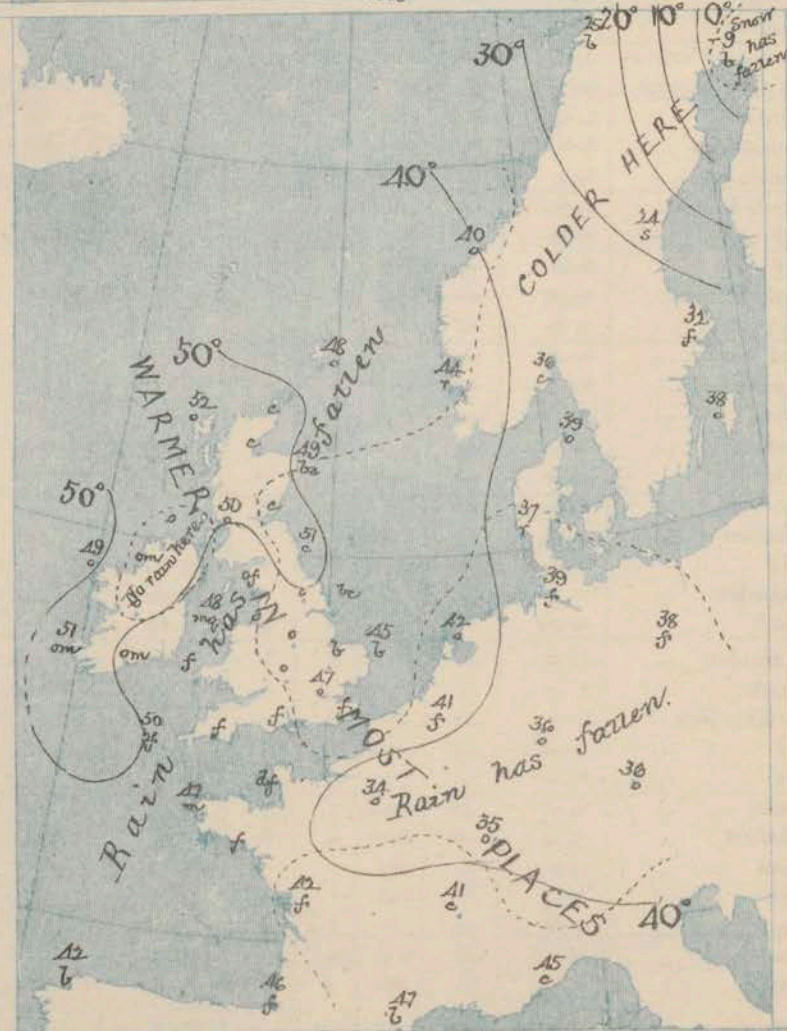
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather is shown by Letters of the Beaufort Scale.
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.
AND RAINFALL.
 for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head.	42.9	35.4	39.4	38.2	3.66
Stornoway.	43.0	34.2	39.0	37.8	5.17
Wick.	42.2	33.2	37.9	36.4	1.97
Nairn.	41.9	32.7	36.6	35.0	2.02
Aberdeen.	42.4	33.3	37.1	35.4	3.34
Leith.	44.0	33.7	38.2	36.8	1.98
Shields.	43.1	34.7	38.0	36.7	1.79
York.	43.2	33.1	36.8	35.9	1.88
Loughborough.	43.5	32.9	36.5	35.5	2.08
Ardrossan.	44.4	36.4	39.8	38.5	4.53
Donaghadee.	44.4	36.3	39.9	39.1	3.03
Holyhead.	45.9	39.0	41.7	40.3	3.49
Liverpool.	43.9	35.6	38.7	37.1	2.23
Parsonstown.	46.0	34.6	39.0	37.9	3.09
Valencia.	43.8	40.5	44.3	43.3	6.79
Roche's Point.	47.9	39.7	43.2	42.0	5.53
Pembroke.	45.8	39.9	42.8	41.2	3.92
Scilly.	49.1	43.3	46.5	45.0	3.93
Jersey.	46.0	38.7	41.7	40.4	3.24
Hurst Castle.	45.3	37.0	40.4	39.7	3.10
Dover.	43.7	35.6	39.4	38.2	2.68
LONDON.	44.8	34.4	37.9	36.8	2.20
Oxford.	43.8	34.4	37.5	36.5	2.33
Cambridge.	43.9	32.6	36.5	35.7	1.57
Yarmouth.	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.7 ins: and more, over the southwest of France, and southern part of the Bay of Biscay.</p> <p>Lowest, 29.9 ins: and more, over the Gulf of Bothnia.</p> <p>Gradients, slight in the south and over the Gulf of Bothnia, moderate elsewhere. Barometer rising except at Sunninghead.</p>
TEMPERATURE	<p>Highest, 54° at Wick, 53° at Ayr and Leith, 52° at Stromsund, Donaghadee and Liverpool, 51° at Rossmore, Kilsnoo, Mullaghmore and Slieve, 50° at Bally and York.</p> <p>Lowest, -9° at Hafnarvada, 24° at Helsingfors, 25° at Bodö, 31° at Stockholm, 34° at Paris, 35° at Munich and 38° at Berlin.</p> <p>Readings in our Islands are therefore very high for the time of year - especially in Scotland.</p>
WIND	<p>W² to E², moderate over nearly the whole of our Islands, Denmark, Holland, and North Germany.</p> <p>NW² in the south, and NE² in the southwest of France and over Spain.</p> <p>SE² at Christiansund, N² in Lapland and the north of Sweden.</p>
WEATHER	<p>Fair in the north and east of our Islands and clear in some parts of Scandinavia.</p> <p>Snow is falling at Helsingfors and rain at Stockholm. Over the greater part of the British Isles and France the sky is overcast.</p> <p>Much fog prevails in the Channel and over the Bay of Biscay.</p>
SEA	<p>Rather rough at Stromsund, moderate in the west and southwest generally, slight in the Channel, smooth on our northeast coasts.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclonic area in the south appears to be spreading steadily in a northerly direction.

FORECASTS

For the 24 hours ending at NOON on 9TH JANUARY 1888.

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


WARNINGS

FORECASTS.

NONE ISSUED.

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.93	43	43	Z	0	r	4	Holyhead ...	30.25	46	46	SSW	5	om	5
Sumburgh Head ...	29.78	45	44	NNE	3	b	4	Valencia ...	30.25	51	51	SSW	5	omd	5
Stornoway ...	29.88	47	47	SW	3	0	3	Scilly ...	30.40	49	49	SW	4	f	5
Aberdeen ...	30.01	45	43	SW	1	c	2	Dungeness ...	30.33	48	47	WNW	4	c	3
Shields ...	30.11	48	45	W	3	c	2	London ...	30.37	50	47	W	2	c	*
Ardrossan ...	30.11	46	45	SW	3	0	2	Yarmouth ...	30.25	47	46	WNW	2	bm	2
Malin Head ...	30.01	48	48	WSW	4	0	3	Jersey ...	30.48	49	47	NW	3	om	3
Mullaghmore ...	30.08	51	50	SSW	5	ogm	4	Rocheport ...	30.57	47	47	NW	3	f	2
Belmullet ...	30.08	51	50	SW	5	om	*								

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

The reports for yesterday morning showed that pressure varied from 30.5 ins. and more over the Spanish Peninsula and from upwards of 30.3 ins. over the whole of Central and South-eastern Europe to less than 29.5 ins. over Northern Europe and to rather below 29.4 ins. off the northwest of Norway. Gradients for W^{ly} and SW^{ly} winds were consequently prevalent over all the more northern countries, with rather showery and relatively mild weather, while in Southern and South-eastern Europe the wind was NW^{ly} and the weather fine. Temperature had risen decidedly in the north and northwest, but was giving way over Hungary and Southern Russia where the readings were many degrees below the freezing point, and in some places below zero F. The lowest individual readings at 8 am were -9° at Hermannstadt, +4° at Kiev, 5° at Nicolaioff, 8° at Odessa and Simburg, 11° at Budapesth, 12° at Vienna and also at Archangel, 17° at Haparanda, 22° at Uleaborg and Moscow, 25° at Breslau, 30° at Helsingfors, 32° at Munich, and 35° at Berlin; the highest were 58° at Malta, 57° at Oran (Algeria) 52° at Cagliari and Longjumeau, 51° at Brindisi and at Valencia (Ireland) 49° at Jersey, 48° at Brest, Scilly, and Belmullet, 47° at Pembroke and several other western stations, 45° at London, and 41° at Paris.

Later on the anticyclonic area over Spain increased in intensity and moved northwards, while milder weather spread further to the eastward over North Germany and the Baltic; cold, however, increased over Northern Europe, where the wind shifted to the N^W.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 3rd JAN.

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

ISSUED BY THE METEOROLOGICAL OFFICE, NO. 1, ADELPHI WALK, LONDON, W.C.2.																		
+ YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
Haparanda ...	30.12	-17	Z	0	b	30.35	+ .35	-24	-24	-15	S	2	b	*	3	?	-	
Hernösand ...	30.01	24	N	2	s	30.32	+ .34	20	19	-4	NNE	2	o	*	32	?	-	
Stockholm ...	29.88	32	ESE	2	s	30.23	+ .26	31	30	-1	NE	2	s	*	39	30	0.04	
Wisby ...	29.88	36	SW	4	r	30.06	+ .10	37	35	-1	ENE	6	o	*	41	34	0.12	
Bodö ...	29.74	27	ENE	6	bc	29.88	+ .15	29	27	+4	ENE	5	o	2	?	25	-	
Christiansund...	29.70	43	SW	8	o	30.02	+ .33	42	40	+2	WSW	4	r	5	45	39	0.24	
Skudesnaes ...	30.09	45	W	4	o	30.28	+ .39	45	44	+1	Z	0	rf	3	46	?	-	
Christiania Fjord (Fierder)	29.83	36	WSW	3	b	30.20	+ .28	34	33	-2	N	2	c	2	37	34	-	
Skagen (The Scaw)	29.92	29	W	3	b	30.19	+ .19	40	37	+1	NNW	2	bc	3	40	37	0.12	
Fanö ...	30.18	39	WSW	5	r	30.30	+ .01	41	41	+4	NW	6	f	*	43	37	0.08	
Sumburgh Head	29.97	44	W	2	r	30.17	+ .45	47	47	-1	W	4	o	4	49	42	0.03	
Stornoway ...	30.13	51	W	6	r	30.24	+ .31	49	49	-3	W	7	o	6	52	47	0.05	
Wick ...	30.13	50	NW	3	o	30.30	+ .39	47	45	-7	SW	4	c	2	54	43	-	
Nairn ...	30.17	51	SW	5	b	30.32	+ .36	52	50	-1	SW	3	c	2	54	49	-	
Aberdeen...	30.22	51	Z	0	bc	30.36	+ .32	52	47	+3	W	2	bc	1	55	46	-	
Leith ...	30.36	53	W	4	o	30.47	+ .32	52	50	-1	W	3	bc	*	54	50	-	
Shields ...	30.48	45	WSW	4	c	30.53	+ .33	50	49	-1	WSW	2	c	2	51	44	-	
Spurn Head ...	30.40	47	WSW	3	bc	30.57	+ .24	43	43	-1	WSW	1	bc	1	54	42	-	
York ...	30.46	52	SW	1	o	30.59	+ .25	46	45	-4	SW	2	b	*	55	44	-	
Loughborough	30.52	53	WSW	2	b	30.66	+ .25	36	36	-12	SW	1	f	*	57	36	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.42	48	SSW	2	r	30.51	+ .26	48	47	-2	SSW	3	bc	2	50	45	0.01	
Malin Head ...	30.36	48	W	4	b	30.41	+ .20	50	49	+2	S	3	b	3	51	47	-	
Mullaghmore ...	30.43	50	SW	4	b	30.45	+ .15	53	48	+2	SW	6	bc	5	54	49	-	
Belmullet ...	30.42	47	SSW	5	o	30.45	+ .14	49	46	0	SSW	4	b	*	50	46	0.01	
Donaghadee ...	30.47	51	SSW	3	c	30.54	+ .24	45	44	-7	N	1	b	0	52	42	-	
Barrow-in-Furness	30.48	46	WSW	3	o	30.61	+ .25	43	43	-3	SW	1	f	*	47	42	0.01	
Liverpool (Bidston)	30.52	48	WSW	4	o	30.63	+ .22	41	40	-11	SSE	1	bf	2	52	41	-	
Holyhead ...	30.53	47	WSW	3	c	30.62	+ .23	46	46	-2	SSW	4	om	4	50	44	0.01	
Parsonstown ...	30.53	49	Z	0	b	30.58	+ .16	47	46	-4	Z	0	b	*	54	43	0.02	
Valencia ...	30.56	51	SE	2	c	30.55	+ .07	51	48	0	SSE	5	b	5	54	49	0.01	
Roche's Point...	30.59	49	WSW	2	f	30.63	+ .15	46	46	-3	S	2	f	4	50	46	0.06	
Pembroke ...	30.61	47	S	3	f	30.68	+ .19	46	46	-2	SSE	2	f	3	48	46	0.03	
Scilly ...	30.64	47	SW	1	f	30.66	+ .12	48	48	-2	SSE	1	f	4	51	45	0.01	
Prawle Point ...	30.66	49	W	3	f	30.68	+ .10	45	45	-3	NW	2	f	2	50	43	0.04	
Jersey ...	30.69	48	NNW	3	f	30.72	+ .08	47	47	+1	NNW	2	f	2	50	45	0.05	
Hurst Castle ...	30.61	46	WSW	4	m	30.67	+ .13	45	45	0	NNW	2	of	2	47	43	-	
Dungeness ...	30.55	45	W	5	f	30.64	+ .15	45	45	0	NNW	2	o	3	47	43	0.01	
London ...	30.57	50	SW	1	o	30.67	+ .16	45	45	-2	NNW	2	om	*	51	45	-	
Oxford ...	30.63	48	SW	2	o	30.70	+ .19	42	42	-6	SW	3	f	*	51	42	-	
Cambridge ...	30.56	47	SW	1	b	30.66	+ .20	41	41	-6	SW	1	b	*	53	39	-	
Yarmouth ...	30.45	49	W	4	bc	30.58	+ .11	43	42	-2	NNW	3	bm	2	52	41	-	
Cuxhaven ...	30.39	40	W	4	r	30.36	+ .04	42	42	+3	NNW	5	f	*	45	39	0.10	
Berlin ...	30.26	40	W	3	r	30.22	- .14	45	44	+7	NW	6	o	*	45	?	0.16	
Wiesbaden ...	*	*	*	*	*	30.57	+ .01	43	42	+7	Z	0	o	*	46	?	-	
Munich ...	30.57	36	W	5	o	30.57	- .02	39	39	+3	W	5	o	*	39	36	0.43	
FRANCE & NETHERLANDS.																		
The Helder ...	30.44	43	S	3	b	30.51	+ .16	41	41	-1	W	1	bc	2	43	41	-	
Brussels ...	*	*	*	*	*	30.64	+ .12	45	45	+4	WSW	3	f	*	47	?	0.04	
Cape Gris Nez...	30.60	46	WSW	5	f	30.63	?	46	46	+1	WSW	1	f	3	48	45	0.08	
Paris ...	30.71	41	SSW	3	o	30.72	+ .07	41	41	+7	SSW	1	f	*	41	?	-	
Brest ...	30.69	48	Z	0	m	30.73	+ .13	44	41	-3	ESE	3	b	7	52	39	-	
Lorient ...	30.47	49	WSW	3	f	30.71	+ .03	47	47	0	E	1	m	5	50	45	-	
Rochefort ...	30.79	44	NNE	1	o	30.75	+ .00	40	40	-2	ENE	5	f	2	46	37	-	
Belfort ...	30.65	35	NW	1	o	30.67	+ .05	38	37	+3	NW	1	o	*	39	31	-	
Lyons ...	30.76	39	N	3	b	30.72	+ .03	37	36	-4	N	1	c	*	48	31	-	
Nice ...	30.53	46	NE	1	b	30.43	- .04	48	39	+3	ENE	1	b	1	54	42	-	
Perpignan ...	30.62	48	NW	4	b	30.54	- .04	51	43	+4	NW	4	b	*	54	46	-	
Biarritz ...	30.73	45	E	4	b	30.68	- .03	38	37	-8	E	3	b	1	54	36	-	
PENIN. SULA.																		
Corunna ...	*	*	*	*	*	30.15	- .42	42	41	-4	NE	5	b	2	57	43	-	
Lisbon ...	30.52	54	NE	7	b													

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 9th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

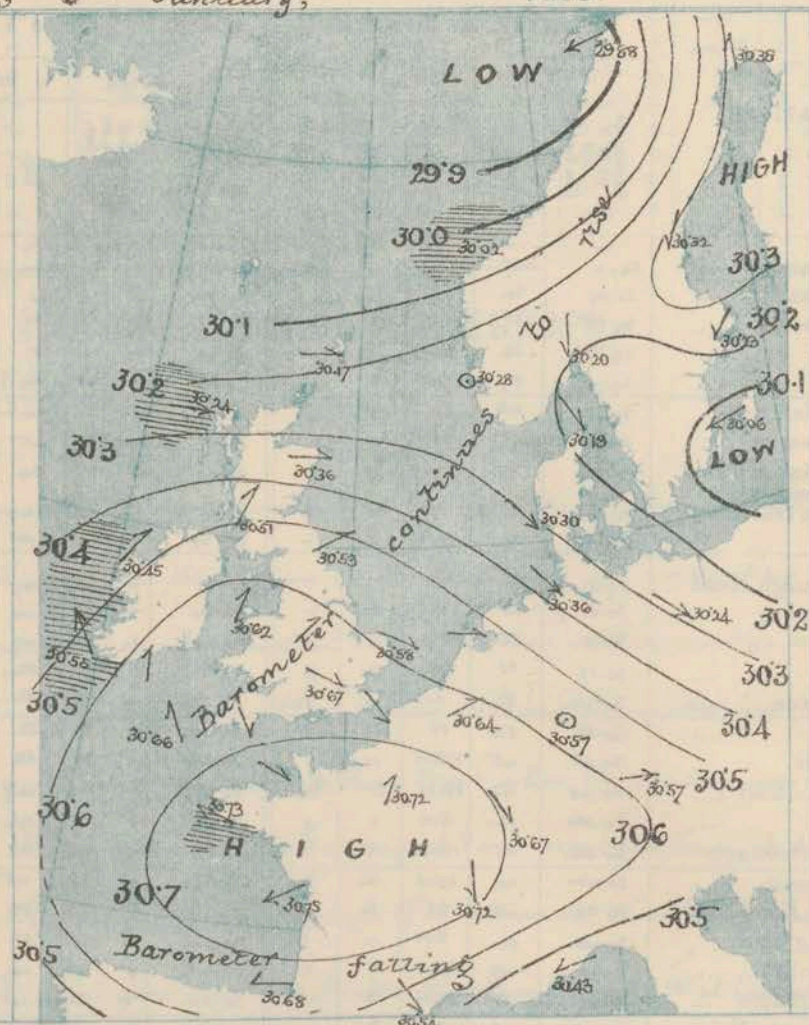
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance — where considerable, is shown thus:
 — = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.967
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

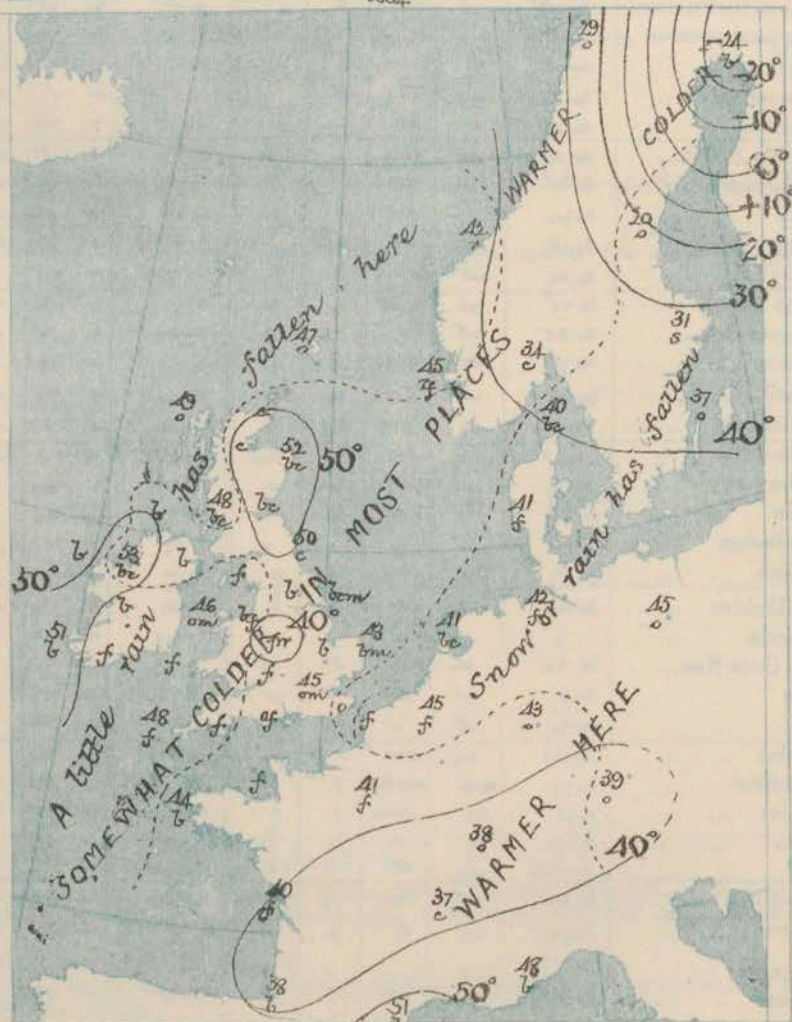
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	4.5 a.m.	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.60
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.2	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	42.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	38.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	42.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	45.2	42.0	5.63
Pembroke	45.8	30.9	42.8	41.2	3.92
Scilly	40.1	43.3	45.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	5.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins: and upwards, in an anticyclone lying over France and the Bay of Biscay;
Lowest, 29.9 ins: and less, in a depression lying off the northwest of Norway; 30.1 ins: and less, over the Baltic, 30.2 ins: and less, over Portugal.
Gradient moderate over Spain and the north of Scandinavia, slight elsewhere. Barometer rising in all localities excepting Iceland and the south of France.

TEMPERATURE

Highest, 53° at Helsingfors, 52° at Narvik, Aberdeen, and Leth, 51° at Valencia and 50° at Malin Ht.
Lowest, -24° at Haparanda, +20° at Helsingfors, 29° at Rode, 31° at Stockholm, 34° at Lander, and 36° at Loughborough.
During yesterday the thermometer rose to 55° at Aberdeen and York and 57° at Loughborough.

WIND

Light to fresh from the S.W. on our western coasts, light W. on the east coast of Great Britain.
Fresh from NW. over Denmark and Germany; light from the same quarter in the southeast of England.
Light NE. in Sweden, moderate E. in the west and south of France.

WEATHER

Foggy over the Irish Sea, the St. George's, Bristol, and English Channels and the southern part of England and Denmark.
Faint in Ireland, Scotland, and the east of England and also in the south of France.
Rain is falling in the west of Norway and snow at Stockholm.

SEA

Rough at Helsingfors, and rather rough off the west of Ireland as well as at Christiansund, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over France and the Bay of Biscay will probably advance northwards over England and a fall of temperature is likely in most districts. The fog over our western and southern coasts will probably continue during the ensuing twenty-four hours.

FORECASTS

for the 24 hours ending at NOON on 10th January 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N th and S.W. winds, strong; cloudy, rain locally.
1	SCOTLAND EAST	S.W. and W. winds, light; fine, mild.
2	ENGLAND N.E.	.....
3	ENGLAND EAST	Same as N ^o 5.
4	MIDLAND COUNTIES	Same as N ^o 5.
5	ENGLAND SOUTH	N th winds, light; fair generally, but some fog or mist. Temperature falling.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	S.W. winds, moderate; fair generally.
7	ENGLAND N.W.	S.W. winds, moderate; fair generally, but some fog.
8	ENGLAND S.W.	S th to S.W. winds, light; cloudy, foggy.
9	IRELAND NORTH	S th and S.W. winds, fresh; fair generally.
10	IRELAND SOUTH	.....

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes	29.98	46	46	W 2	0	4	Holyhead	30.49	47	47	SSW 4	m	4
Sumburgh Head							Valencia						
Stornoway	30.86	52	52	W 6	7	5	Scilly						
Aberdeen							Dungeness	30.52	46	46	W 5	f	3
Shields							London						*
Ardrossan							Yarmouth						
Malin Head	30.29	49	49	W 4	0	4	Jersey	30.65	50	49	WNW 3	f	3
Mullaghmore							Rochefort						
Belmullet													

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from 30.7 ins. and more over the southwest of France and the southern parts of the Bay of Biscay, to 30.3 ins. and less over the southeastern part of the Mediterranean on the one hand, and to 29.4 ins. and less off the West of Norway on the other. Thus while W. and S.W. winds, with mild, variable weather (clear in some places, dull, wet or foggy in others) prevailed over northern and northwestern Europe, E. breezes, and on the whole, fair weather prevailed in the South and Southeast.

The distribution of temperature was somewhat peculiar—there being two definite centres of severe frost, one over Hungary and Bulgaria, the other over northern Europe. These were separated by a zone of comparatively mild weather which lay over North Germany, Poland and western Russia, while over the British Islands the weather was very mild for the time of year.

The lowest individual values reported were (1) in the northern area—9° F. at Haparanda, -8° at Archangel, -3° at Uleaborg, +24° at Kernö and 35° at Rodo and 32° at Stockholm; (2) in the southern area—9° at Hermanstadt, +16° at Nicolaieff, 19° at Odessa, 21° at Vienna, and 25° at Bracow and Lemberg.

There were also two regions of relatively high temperature, one over the Mediterranean and the other over the British Islands, (1) in the first of these the highest values were 56° at Malta, 52° at Brindisi, 49° at Naples, and 48° at Cagliari and Barcelona; (2) in the second they were 54° at Wick, 53° at Kinn, 52° at Stornoway, Donaghadee and Liverpool, 51° at Shields, Mullaghmore and Valencia, and 50° at Cork and Scilly, while in the band which extended thence in an easterly direction over North Germany and western Russia, the readings were all above the freezing point.

Later in the day the barometer continued to rise over the British Islands and France, and in the East of Scotland and North of England the thermometer rose to 53° during the day.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 1ST TO THE 7TH JANUARY 1888.

During this week there has been a complete break up of the frost which prevailed over the United Kingdom, France, and Germany during the latter part of December. It was brought about by the giving way of pressure over the Atlantic coast, together with the advance of some important depressions to the British Islands from the southwestward, and the gradual encroachment of gradients for S. and S.W. winds.

At first (i.e. on Sunday) the frost which had failed a little on the 31st December, was renewed temporarily over England as an anticyclonic S. breeze prevailed in that country; but depressions were already approaching our northwestern and southwestern coasts, which subsequently spread all over the country, and the thermometer rose fast. Over Central, eastern and northern Europe, however, intense cold still prevailed and early on the 3rd there was a very temporary renewal of frost at the English stations as a "ridge" passed over us from the westward.

Later on the barometer fell very decidedly in the West and Northwest, the S. gradients increased and extended eastwards, the thermometer rose again decidedly, and the change spread eastwards, so that by 8 a.m. on the 5th frost (in the shade) was no longer prevalent over the British Islands, France, or the West of Norway. The wind then veered to the westward, (as pressure rose over France) and carried the milder weather in an easterly direction over North Germany and the Baltic. In the extreme North and Southeast of Europe, however, the cold was still very decided.

The principal depressions observed were,

- (1) A well formed but not deep system, noticed in the northwest on the 2nd, with a V-shaped secondary, which advanced over Ireland and England, while the primary moved northeastwards.
- (2) A deeper system which reached our northwest coast early on the 4th, causing strong S. gales and rain in the West and North, and mild showery weather, while an imperfectly formed secondary moved eastward over Ireland.
- (3) A smaller disturbance which appeared in the northwest on the 6th causing gales in the northwest only, and disappearing during the following night.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 10th January 1888.
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 16, Victoria Street, London, W. SCOTT, Secretary.																		
+ YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sec. (0 to 9)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.94	14	S	4	S	29.38	- .07	31	31	+ .55	2	0	b	*	?	-24	0.32	
Hernösand ...	30.14	29	S	6	r	29.94	- .30	38	36	+ .18	SW	4	c	*	?	16	0.12	
Stockholm ...	30.42	31	SE	2	0	30.23	- .00	34	33	+ .3	SW	2	0	*	34	30	-	
Wisby ...	30.43	33	E	4	0	30.28	+ .22	36	35	- .1	W	6	0	*	39	32	-	
Bodö ...	29.56	41	SW	6	r	29.73	- .15	40	38	+ .11	W	8	r	5	41	28	0.51	
Christiansund...	30.04	48	W	9	0	30.21	+ .19	46	45	+ .4	W	8	0	6	48	47	0.04	
Skudesnaes ...	30.04	48	W	0	0	30.49	+ .21	44	42	- .1	W	0	r	3	45	?	-	
Christiania Fjord (Færder)	30.31	35	SW	2	0	30.31	+ .11	33	33	- .1	SW	2	f	1	36	32	-	
Skagen (The Scaw)	30.34	37	W	0	b	30.34	+ .15	37	37	- .3	W	1	b	2	?	34	-	
Fanö ...	30.50	38	W	4	m	30.50	+ .20	37	37	- .4	W	2	f	*	41	36	0.04	
Sumburgh Head	30.25	46	W	5	0	30.34	+ .17	46	45	- .1	SW	1	c	4	48	44	0.01	
Stornoway ...	30.37	49	W	5	0	30.34	+ .10	49	49	0	W	5	0	4	50	46	-	
Wick ...	30.40	47	W	1	b	30.39	+ .09	47	46	0	S	1	b	0	51	40	-	
Nairn ...	30.39	50	W	2	b	30.41	+ .09	52	50	0	W	1	b	1	56	49	-	
Aberdeen...	30.40	49	SW	1	b	30.49	+ .13	40	39	- .12	W	1	b	1	52	35	-	
Leith ...	30.55	51	W	2	b	30.56	+ .09	47	47	- .5	W	1	b	*	57	38	-	
Shields ...	30.58	49	W	2	b	30.62	+ .09	38	38	- .12	W	0	f	2	56	37	-	
Spurn Head ...	30.62	45	W	2	b	30.65	+ .08	41	41	- .2	W	0	f	2	50	41	-	
York ...	30.65	49	W	1	0	30.67	+ .08	35	35	- .11	S	1	f	*	55	34	-	
Loughborough	30.69	44	SE	1	b	30.70	+ .04	34	34	- .2	W	0	f	*	54	33	-	
ARDROSSAN.																		
Ardrossan ...	30.59	46	SW	3	b	30.58	+ .07	47	46	- .1	W	1	0	2	50	43	-	
Malin Head ...	30.47	51	SSW	4	b	30.48	+ .07	47	46	- .3	SSW	3	b	2	54	47	0.01	
Mullaghmore ...	30.55	55	S	5	b	30.50	+ .05	46	45	- .7	SSW	3	b	3	59	46	-	
Behnullet ...	30.46	53	SSW	5	b	30.48	+ .03	50	47	+ .1	SSW	5	0	*	54	47	-	
Donaghadee ...	30.62	45	S	2	f	30.59	+ .05	46	46	+ .1	S	3	f	1	48	43	0.01	
BRITISH ISLANDS.																		
Barrow-in-Furness	30.66	46	W	1	f	30.63	+ .02	40	40	- .3	E	3	0	*	46	38	0.03	
Liverpool (Bidston)	30.67	46	E	1	b	30.65	+ .02	40	40	- .1	E	3	b	2	53	37	0.02	
Holyhead ...	30.65	47	SSW	3	f	30.63	+ .01	44	44	- .2	SSW	1	f	2	48	43	0.01	
Parsonstown ...	30.59	48	W	0	b	30.57	- .01	44	43	- .3	W	0	b	*	55	43	-	
Valencia ...	30.51	50	SE	6	b	30.52	- .03	49	47	- .2	SE	5	c	5	53	43	-	
Roche's Point...	30.51	47	S	3	b	30.60	- .03	46	46	0	SSW	3	f	4	50	46	0.01	
Pembroke ...	30.68	44	ESE	2	f	30.66	- .02	44	44	- .2	SSE	3	f	3	46	40	0.02	
Scilly ...	30.64	46	SE	3	f	30.64	- .02	47	47	- .1	SSE	3	0	4	50	45	0.03	
Prawle Point ...	30.72	45	W	0	f	30.70	- .02	45	45	0	ESE	3	0	3	49	41	0.01	
Jersey ...	30.71	48	NNE	2	0	30.72	00	44	43	- .3	SE	3	f	3	49	43	0.01	
HURST CASTLE.																		
Hurst Castle ...	30.71	42	W	0	f	30.71	+ .04	40	40	- .5	E	1	f	1	46	38	0.02	
Dungeness ...	30.60	44	W	3	f	30.70	+ .06	37	37	- .8	NW	1	f	1	47	36	0.02	
London ...	30.67	45	W	0	0	30.72	+ .05	35	35	- .10	W	1	0	*	47	34	-	
Oxford ...	30.72	39	W	0	f	30.73	+ .03	33	33	- .9	W	0	f	*	46	32	-	
Cambridge ...	30.69	44	W	1	b	30.71	+ .05	32	31	- .9	S	1	om	*	58	31	-	
Yarmouth ...	30.64	48	W	3	b	30.67	+ .09	41	41	- .2	W	2	b	2	53	40	-	
Cuxhaven ...	30.55	41	W	2	f	30.60	+ .24	40	40	- .2	W	2	f	*	42	39	-	
Berlin ...	30.52	40	N	2	0	30.59	+ .37	38	37	- .7	W	1	f	*	45	36	-	
Wiesbaden ...	*	*	*	*	*	30.67	+ .10	45	43	+ .2	NW	2	0	*	46	41	-	
Munich ...	30.58	39	W	4	r	?	?	37	37	- .2	?	1	f	*	41	34	0.24	
FRANCE & NETHERLANDS.																		
The Helder ...	30.60	41	NW	1	b	30.63	+ .12	40	40	- .1	W	1	b	1	43	39	-	
Brussels ...	*	*	*	*	*	30.71	+ .07	40	40	- .5	W	3	f	*	48	39	0.04	
Cape Gris Nez...	30.68	46	W	0	f	30.68	+ .05	42	42	- .4	W	1	f	0	46	41	-	
Paris ...	30.71	43	N	1	0	30.72	00	42	42	+ .1	NNE	1	m	*	45	40	-	
Brest ...	30.69	47	ESE	3	m	30.68	- .05	43	42	- .1	W	0	m	6	52	39	-	
Lorient ...	30.69	47	W	0	f	30.69	- .02	41	41	- .6	E	3	m	5	?	39	-	
Rochefort ...	30.69	45	E	4	m	30.66	- .09	42	41	+ .2	E	5	m	2	46	34	-	
Belfort ...	30.30	38	NW	1	0	30.62	- .05	40	39	+ .2	NNE	1	f	*	40	35	-	
Lyons ...	30.63	43	N	4	0	30.59	- .13	41	40	+ .4	N	4	0	*	44	?	-	
Nice ...	30.28	47	W	1	b	30.26	- .27	47	43	- .1	SSW	1	b	0	57	41	-	
Perpignan ...	30.40	58	NW	3	b	30.31	- .23	57	48	+ .6	NW	4	b	*	65	?	-	
Biarritz ...	30.60	46	ESE	8	0	30.55	- .13	45	44	+ .7	NNE	1	f	2	50	?	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.54	53	N	4	b	30.49	+ .34	42	41	0	NNE	3	b	2	57	41	-	

For Explanation of Columns, see p. 4. + Received too late for insertion in Charts.

WEATHER CHARTS

for 8 a.m. on *Tuesday, 10th January,*

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

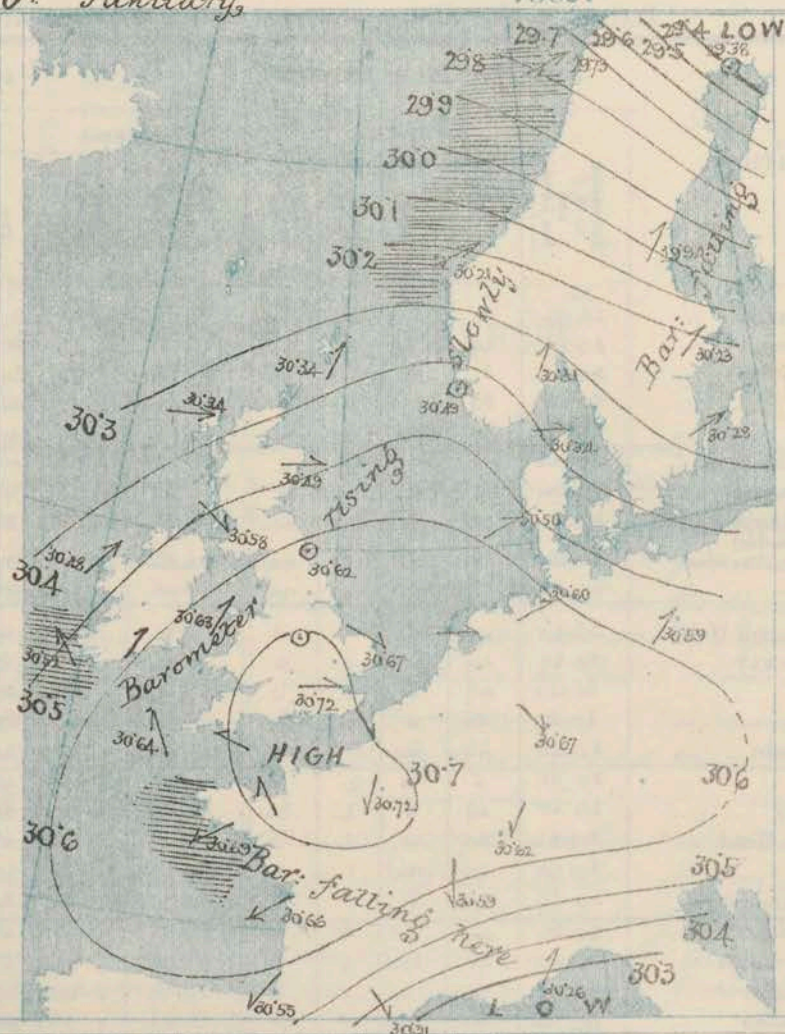
Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—
 *— forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○— dead calm.

Sea Disturbance—where considerable is shown thus:
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.885
Stornoway	29.887
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.880
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.885
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Sally	29.960
Jersey	30.010
Hurst Castle	29.967
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 a.m., with RAINFALL in PAST 24 HOURS.

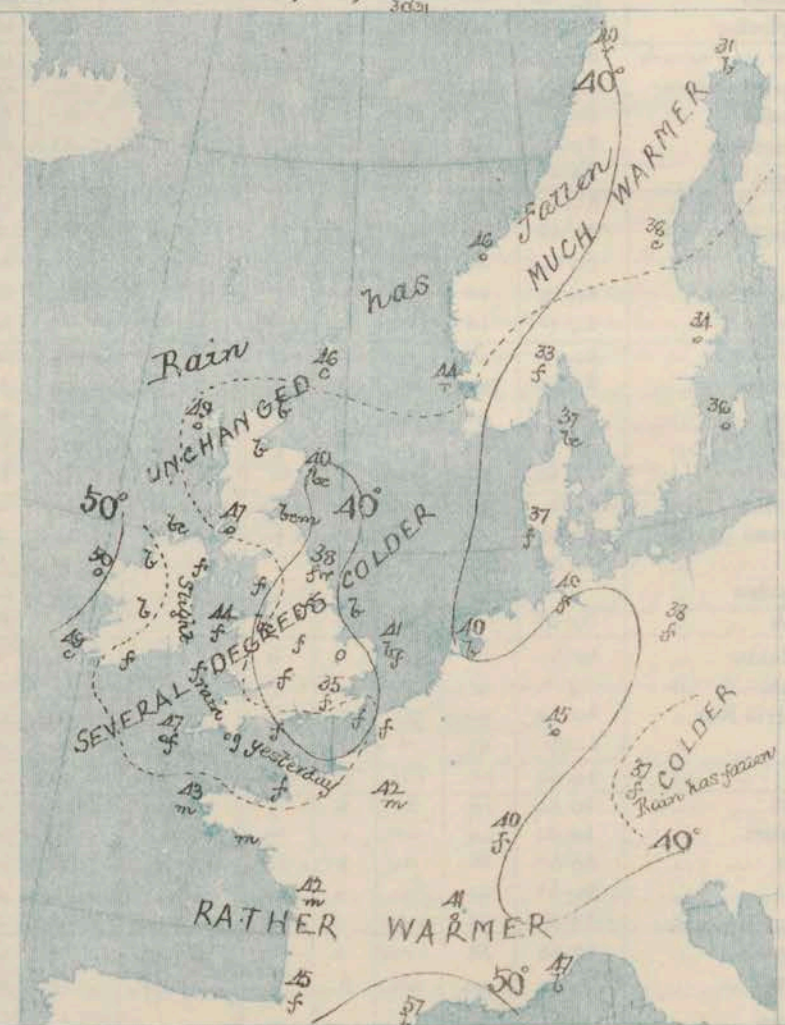
Temperature—Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather—is shown by Letters of the Beaufort Scale.
Rainfall—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of January.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	42.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	43.6	33.7	38.2	36.8	1.08
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.06
Ardrossan	44.4	33.4	39.5	38.5	4.53
Donaghadee	44.4	33.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	48.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Sally	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	3.08
LONDON	44.8	34.4	37.9	36.8	2.30
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.67
Yarmouth	41.9	34.5	37.7	36.9	2.06

Notes—The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins: and upwards, in an anticyclone lying over the south of England, the Channel and north of France.
Lowest, 29.4 ins: and less, in a depression lying over the extreme north of Sweden.

Gradients steep over the north of Scandinavia, but slight elsewhere. Barometer falling briskly in Sweden and slightly in France, but rising elsewhere.

TEMPERATURE

Highest, 57° at Perpignan, 52° at Narbonne, 50° at Belonulle, 48° at Stomway and Valencia, and 47° at Hambrooke, Lillo and Nice.

Lowest, 31° at Haparanda, 32° at Cambridge, 33° at Faerøer and Oxford, 34° at Stockholm and Loughborough, and 35° at York and in London.

During yesterday the thermometer rose to 56° at Narbonne and Shields, 57° at Lillo, 58° at Cambridge and 59° at Mullaghmore.

WIND

Moderate E^{ly} over the Bay of Biscay, SE^{ly} on our extreme south coast coasts.

Light SW^{ly} or W^{ly} over the north of our islands and the eastern shores of the North Sea; strong to gale from WSW at Rode and Christiansund.

Light NW^{ly} over the Netherlands and the extreme southeast of England.

WEATHER

Foggy over England, Germany, the south of Denmark, and the east of Ireland; misty in France.

Fine in the extreme west and north of our islands and also in Holland.

Dull in Scandinavia, with rain at Rode and Skudeneshavn.

SEA

Rough at Christiansund and Rode, rather rough at Rode, Valencia and Lorient, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the north of Sweden is likely to travel away to the eastward, and at present there are no signs of the advance of any fresh disturbances.

The anticyclone over our southern districts will probably continue to move slowly Nth and in the extreme south the wind will therefore shift to the eastward. The fog over our western and southern coasts is not likely to disperse just at present.

FORECASTS

for the 24 hours ending at NOON on 11th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ^{ly} and W ^{ly} winds, light to fresh; fair to dull and unsettled.
1	SCOTLAND EAST	W ^{ly} winds, light; fine generally, but local fogs.
2	ENGLAND N.E.	Same as No 4.
3	ENGLAND EAST	Same as No 4.
4	MIDLAND COUNTIES	Light variable airs, colder, thick local fogs.
5	ENGLAND SOUTH	Variable airs, finally E ^{ly} cold, foggy.


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	SW ^{ly} and W ^{ly} winds, light; dull, some fog or mist.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	SE ^{ly} and E ^{ly} winds, moderate; cold, foggy.
9	IRELAND NORTH	SE ^{ly} and S ^{ly} winds, fresh; fair to dull and unsettled.
10	IRELAND SOUTH	-----D°-----D°-----D°-----

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.59	45	45	W 2	0 f	3	Holyhead ...	30.65	48	48	SSW 4	f	4
Sumburgh Head ...	30.24	47	47	W 4	r	4	Valencia ...	30.52	53	49	SSW 6	bm	6
Stornoway ...	30.32	49	49	W 6	0	4	Scilly ...	30.66	48	48	SSW 4	f	5
Aberdeen ...	30.39	51	47	SW 1	0	1	Dungeness ...	30.65	46	46	NW 3	m	3
Shields ...	30.54	55	52	W 2	0	2	London ...	30.69	47	46	NW 1	f	*
Ardrossan ...	30.55	49	47	S 4	0	3	Yarmouth ...	30.60	53	51	WNW 3	bm	2
Malin Head ...	30.45	54	51	SSW 4	0	3	Jersey ...	30.62	49	48	WNW 2	f	2
Mullaghmore ...	30.50	51	51	SSW 4	0	3	Rocheport ...	30.71	43	43	ESE 5	f	2
Belmullet ...	30.48	58	48	SSW 5	0	*							

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

The reports for yesterday morning showed that pressure varied from 30.7 ins. and more over France, and between 30.3 ins. over the British Isles and the southern parts of the North Sea to somewhat below 29.9 ins. in a depression the centre of which lay off the northwest coast of Norway and to about the same value in another low pressure area lying over Poland. The wind was SW¹ or W¹ over all the more northwestern districts, and SE² on our southwestern coasts. Over France however, there was a very complex anticyclonic circulation of light winds, while in the Baltic the wind was NE³ to N³. A great deal of damp fog was reported over the United Kingdom and France, but in other places the weather was, as a whole, fair and quiet. Temperature remained high over the British Isles, but was very low in Finland and Lapland. In Austro-Hungary, however, and over the southeast of Europe generally the thermometer had risen decidedly, the change exceeding 20° in the twenty-four hours at Vienna and Hermannstadt — where very severe frost had previously prevailed. The lowest thermometric readings recorded at 8 a.m. were — (1) Over Northern Europe — 24° at Haparanda, — 13° at Uleaborg — 12° at Kuopio, + 16° at Helsingfors and St. Petersburg, 20° at Helsingfors and 21° at Hangö; (2) over Southern Europe, 15° at Hermannstadt and Budapesth. At Vienna, Prague, Cracow, Lemberg and Moscow a thaw prevailed. The highest values were (1) 57° at Malta, 52° at Rhinidini, 50° at Palermo, San Juan de los Rios, and 48° at Nice; (2) 53° at Mullaghmore, 51° at Valencia, 50° at Malin Head, 49° at Belmullet, 48° at Ardrossan and Scilly, and 45° in London.

Later in the day the thermometer rose to 53° in the extreme west of Ireland, and to 58° at Cambridge and 57° at Lifford, but in London (where thick fog prevailed) the thermometer did not rise above 47°.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 11th JANUARY

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.		
Haparanda ..	29.65	33	W	4	b	29.83	+ .45	25	24	- 6	N	2	b	*	37	14	-		
Hernösand ...	30.02	39	Z	0	o	30.00	+ .06	39	37	+ 1	NW	4	c	*	43	27	-		
Stockholm ...	30.24	35	W	2	b	30.03	- .20	36	34	+ 2	W	2	b	*	36	28	-		
Wisby ...	30.25	38	W	2	b	30.05	- .23	39	37	+ 3	NW	6	b	*	39	32	-		
Bodö ...	29.88	39	WSW	6	o	30.11	+ .38	37	35	- 3	NW	2	o	1	39	36	-		
Christiansund...	30.12	40	WSW	9	o	30.31	+ .10	44	43	- 2	WSW	8	r	5	46	41	0.20		
Skudesnaes ...	30.43	41	Z	0	f	30.48	- .01	44	44	0	WNW	1	f	2	?	41	-		
Christiania Fjord (Færd)	30.25	39	WSW	3	b	30.24	- .07	40	38	+ 7	WSW	2	b	1	40	36	-		
Skagen (The Scaw)	30.30	41	NW	5	b	30.27	- .07	39	38	+ 2	NW	3	b	3	43	?	-		
Fanö ...	30.51	37	W	4	b	30.43	- .07	39	39	+ 2	NW	4	f	*	43	36	-		
Sumburgh Head	30.37	47	WSW	4	o	30.48	+ .44	45	45	- 1	W	2	o	4	50	44	0.01		
Stornoway ...	30.41	48	SW	6	o	30.47	+ .13	46	45	- 3	SW	6	o	4	49	44	-		
Wick ...	30.42	47	W	1	b	30.52	+ .13	42	41	- 5	WSW	1	b	0	54	38	-		
Nairn ...	30.48	46	W	3	b	30.51	+ .10	32	31	- 20	Z	0	b	1	54	32	-		
Aberdeen...	30.48	40	W	1	o	30.57	+ .08	31	30	- 9	W	1	b	1	44	30	-		
Leith ...	30.56	46	W	2	c	30.60	+ .04	44	43	- 3	W	1	om	*	52	43	-		
Shields ...	30.59	44	W	2	f	30.60	- .02	43	42	+ 5	W	1	o	2	48	37	-		
Spurn Head ...	30.63	44	S	2	b	30.64	- .01	36	38	- 3	Z	0	f	1	50	38	-		
York ...	30.65	42	ESE	1	f	30.66	- .01	33	33	- 2	SE	1	f	*	43	31	0.01		
Loughborough	30.68	49	ESE	1	b	30.66	- .04	30	30	- 4	SW	1	f	*	49	29	-		
Ardrossan ...	30.57	46	S	2	r	30.59	+ .01	43	43	- 4	SE	3	c	2	47	42	0.01		
Malin Head ...	30.51	43	S	4	b	30.49	+ .01	40	40	- 7	S	4	b	2	48	39	-		
Mullaghmore ...	30.62	46	SE	2	b	30.51	+ .01	39	38	- 7	Z	0	bw	2	50	38	-		
Belmullet ...	30.48	49	ESE	3	b	30.46	- .02	41	40	- 9	ESE	2	b	*	49	40	-		
Donaghadee ...	30.58	45	S	2	f	30.59	00	44	44	- 2	SSW	3	f	0	48	42	-		
Barrow-in-Furness	30.64	43	SE	2	f	30.63	00	39	39	- 1	SW	2	f	*	45	38	0.03		
Liverpool (Bidston)	30.67	42	WNW	1	f	30.66	+ .01	39	38	- 1	WNW	1	f	1	47	38	0.02		
Holyhead ...	30.64	43	S	2	m	30.62	- .01	42	42	- 2	SSE	1	m	2	45	41	0.01		
Parsonstown ...	30.56	45	SE	2	o	30.55	- .02	42	41	- 2	SE	3	o	*	46	41	-		
Valencia ...	30.52	48	ESE	2	c	30.47	- .05	48	45	- 1	SE	3	b	3	50	44	-		
Roche's Point...	30.60	46	S	4	c	30.57	- .03	45	45	- 1	S	4	f	4	49	44	0.01		
Pembroke ...	30.66	44	S	3	o	30.63	- .03	42	41	- 2	SE	3	o	2	44	42	0.02		
Scilly ...	30.62	47	SE	2	o	30.56	- .08	45	45	- 2	ESE	4	om	4	48	43	0.01		
Prawle Point ...	30.70	44	ESE	3	f	30.65	- .05	43	43	- 2	E	3	f	3	46	40	-		
Jersey ...	30.70	45	ESE	4	o	30.65	- .07	41	41	- 3	E	2	f	2	45	40	0.01		
Hurst Castle ...	30.71	40	E	1	f	30.67	- .04	36	36	- 4	E	1	f	0	45	34	0.02		
Dungeness ...	30.69	40	W	2	f	30.66	- .04	35	35	- 2	Z	0	f	0	41	35	0.02		
London ...	30.71	36	Z	0	f	30.68	- .04	33	33	- 2	Z	0	f	*	46	32	0.01		
Oxford ...	30.73	34	Z	0	f	30.69	- .04	31	30	- 2	Z	0	f	*	41	30	-		
Cambridge ...	30.69	38	Z	0	b	30.66	- .05	31	31	- 1	Z	0	o	*	54	29	-		
Yarmouth ...	30.67	45	Z	0	b	30.64	- .03	38	37	- 3	W	1	bf	1	51	34	0.01		
Cuxhaven ...	30.60	40	WNW	2	c	30.55	- .05	38	37	- 2	W	3	f	*	41	35	-		
Berlin ...	30.57	40	NW	2	f	30.47	- .12	39	39	+ 1	WNW	3	f	*	43	39	-		
Wiesbaden ...	*	*	*	*	*	30.69	+ .02	41	38	- 4	Z	0	o	*	46	39	-		
Munich ...	30.65	36	Z	0	o	30.63	?	35	35	- 2	SW	1	m	*	37	34	-		
FRANCE & NETHERLANDS.																			
The Helder ...	30.64	40	WSW	1	b	30.59	- .04	40	40	0	SW	1	f	1	43	37	-		
Brussels ...	*	*	*	*	*	30.70	- .01	36	36	- 4	Z	0	f	*	42	36	0.04		
Cape Gris Nez...	30.69	41	WSW	1	f	30.65	- .03	39	39	- 3	Z	0	f	1	45	39	0.04		
Paris ...	30.72	39	NE	3	o	30.63	- .09	40	39	- 2	NE	3	o	*	?	39	-		
Brest ...	30.67	41	Z	0	m	30.62	- .06	38	37	- 5	ESE	4	m	6	52	36	-		
Lorient ...	?	42	NE	1	b	30.61	- .08	38	38	- 3	E	4	m	4	?	36	-		
Rochefort ...	30.61	42	ENE	7	o	30.60	- .06	41	40	- 1	ENE	5	o	2	45	36	-		
Belfort ...	30.62	41	NE	3	o	30.60	- .02	37	37	- 3	E	3	o	*	42	36	-		
Lyons ...	30.58	45	N	1	o	30.59	00	38	37	- 3	N	3	o	*	45	37	-		
Nice ...	30.44	49	ESE	1	b	30.46	+ .20	43	39	- 4	E	1	b	0	57	41	-		
Perpignan ...	30.49	47	NW	1	b	30.50	+ .19	38	36	- 19	WSW	1	b	*	65	35	-		
Biarritz ...	30.50	44	NE	3	f	30.51	- .04	41	40	- 4	E	4	f	2	48	39	-		
GERMANY.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.39	31	NNW	5	b	30.41	- .08	40	40	- 2	N	5	f	2	61	39	-		
PENIN. SULA.																			

For Explanation of Columns, see p. 4.

WEATHER

CHARTS

for 8 a.m. on Wednesday, 11th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind—Arrows show the prevalent winds. They fly with the wind and their heads and feathers refer to force, thus—

→ = forces above 10; → = forces 8 to 10;

→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

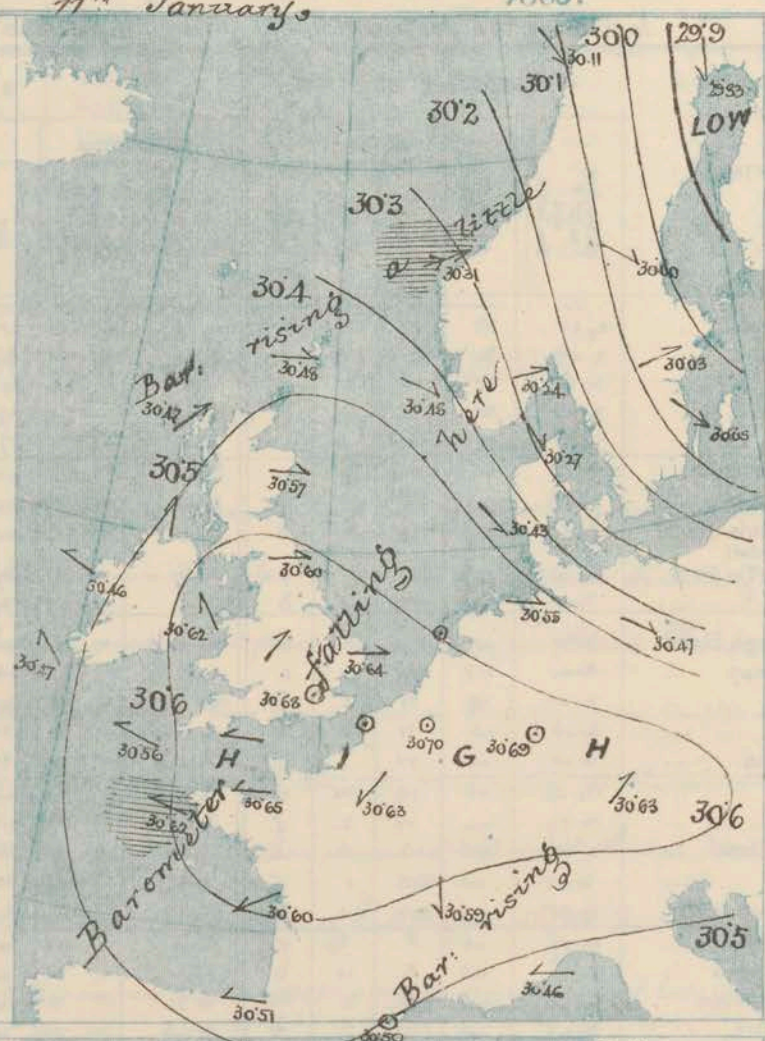
Sea Disturbance—where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.937
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.880
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.982
Yarmouth	29.981



TEMPERATURE & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature—Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by letters of the Beaufort Scale.

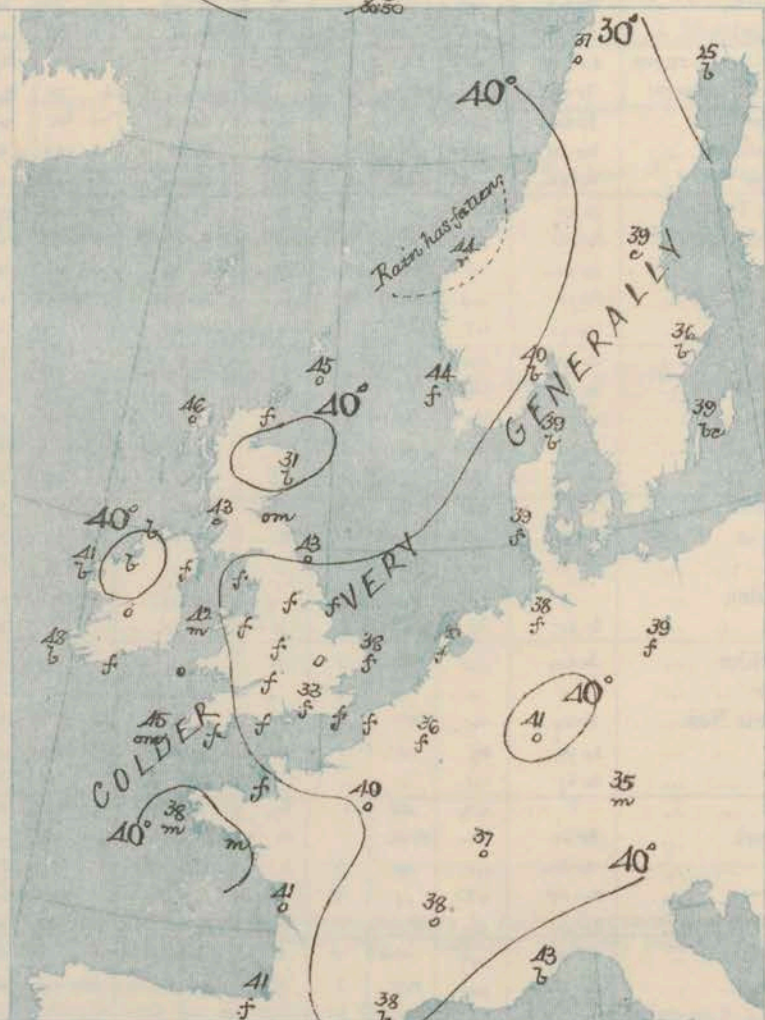
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.06
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.9	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.6	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	40.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note—The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.70 ins. at Brussels; 30.6 ins and upwards over the whole of England, the Netherlands, the North of France and South Germany.
Lowest 29.9 ins. and less over the Gulf of Bothnia.
Gradients moderate over Scandinavia, slight elsewhere. Barometer falling a little at all but the extreme northern stations.

TEMPERATURE

Highest 48° at Valencia, 46° at Stormoway, 45° at Dumburghead, Roche's Point and Dally, 44° at Leit and Donaghadee.
Lowest 25° at Naparanda, 30° at Loughborough, 31° at Aberdeen, Oxford and Cambridge and 32° at Nairn.
Frost occurred last night in many parts of Great Britain.

WIND

Light or moderate from the E. over France; S.E. on our extreme southwest coasts.
S.W. or W. in the North of our Islands; strong in force at Stormoway.
N.W. in Scandinavia and Denmark; calms variable in the central, eastern and southeastern parts of England.

WEATHER

Foggy over England, the Netherlands, the East of Ireland, the South of Denmark, and the North of Germany.
Fine in Sweden, Scotland, the West of Ireland, and the South of France.
Dull over eastern and central France.

SEA

Rough at Brest; and moderate on our extreme North and Southwest coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is falling a little at all but our extreme northern stations, and the readings in the centre of the anticyclone are about 0.05 ins. lower than they were yesterday.

Very little change is however, shown in the general distribution of pressure, and the barometric fall is at present too slight to lead to any decided alteration in the weather.

FORECASTS

For the 24 hours ending at NOON on 12th January 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ³ and W ³ winds, strong; dull, rain locally.
1	SCOTLAND EAST	N ³ winds, light; fair generally, but mist or fog locally.
2	ENGLAND N.E.	.....D.....D.....D.....
3	ENGLAND EAST	Same as N ^o 5.
4	MIDLAND COUNTIES	Same as N ^o 5.
5	ENGLAND SOUTH	Light variable airs, with thick fogs in many places.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SE ³ and S ³ winds, light; foggy.
7	ENGLAND N.W.	.....D.....D.....D.....
8	ENGLAND S.W.	SE ³ winds, moderate cloudy, local fogs.
9	IRELAND NORTH	SE ³ and S ³ winds, freshening; fair generally, but local fogs.
10	IRELAND SOUTH	.....D.....D.....D.....
WARNINGS		NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.49	41	41	E 2	f	2	Holyhead ...	30.65	45	45	SSW 1	f	2
Sumburgh Head ...	30.55	48	47	W 4	b	4	Valencia ...	30.55	49	48	SSE 2	om	3
Stornoway ...	30.41	49	49	SW 7	o	5	Scilly ...	30.63	47	47	S 3	om	5
Aberdeen ...	30.47	48	46	SSW 2	b	1	Dungeness ...	30.68	40	40	W 2	f	1
Shields ...	30.52	48	47	SW 1	m	2	London ...	30.70	46	44	1 2	o	*
Ardrossan ...	30.57	46	45	S 2	o	2	Yarmouth ...	30.66	51	50	WNW 1	bf	2
Malin Head ...	30.51	47	46	S 4	b	2	Jersey ...	30.71	44	43	SSE 3	f	3
Mullaghmore ...	30.52	46	45	S 3	c	2	Rochefort ...	30.63	43	42	ESE 4	o	2
Belmullet ...	30.48	49	46	SSW 3	b	*							

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

The reports for yesterday showed that pressure was still highest (30.7 ins. and more) in an anticyclone, the centred area of which lay over the southern parts of England, the Channel, and the North of France, but a well marked band of high readings (30.5 ins. and more), extended thence in an easterly direction over Germany and Poland to Central Russia. To the northward pressure decreased to about 29.4 ins. over the extreme northern parts of Europe, while to the southward it decreased to about 30.1 ins. over Turkey and Greece - Over western Europe readings were very uniform. Thus while W^{ly} (SW to NW) breezes prevailed over the Baltic, and northern countries generally, with comparatively mild weather, the winds over the British Islands were light from between S and W, and those in France were NE^{ly} and E^{ly}. Dense wet fogs were reported over many parts of Germany and France, and over nearly all the southern parts of our Islands with the English and Irish Channels. In the North and also in the far South the weather was bright. Temperature remained high over the United Kingdom, and had risen with extreme rapidity over Lapland and Finland, as the W. wind had spread to those parts; over Central Russia however, it had fallen fast, and the area of severest cold had been transferred to this region. The lowest individual values recorded were -3° F at Moscow, +1° at Archangel, 12° at St. Petersburg, 20° at Hermanstadt, 24° at Kuopio, 25° at Kharkov, and 29° at Odessa. At Naparenda it had risen 55°, to 6° above the freezing point. The highest 8 a.m. values were, 54° at Oran, 53° at Algiers, 52° at Cagliari, Brindisi and also at Naiv (Scotland), 50° at Palermo, Rome, and at Belmullet (Ireland) 49° at Stornoway and Valencia and 47° at Scilly, Ardrossan and Malin Head. The thick wet fogs continued during the day, and in some parts of our Islands the thermometer rose to 54°.

EXPLANATION OF 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.
† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Thursday 12th January

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.								PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ..	30.39	15	NE	2	b	30.63	+ .80	4	4	- 21	N	2	b	*	34	?	Ins.
Hernösand ...	30.50	26	Z	0	b	30.71	+ .71	14	14	- 25	Z	0	b	*	43	?	-
Stockholm ...	30.34	33	N	4	b	30.63	+ .60	30	27	- 6	N	4	b	*	45	32	-
Wisby ...	30.25	39	NW	6	b	30.45	+ .40	33	30	- 6	NNE	8	b	*	43	?	-
Bodö ...	30.43	32	Z	0	b	30.44	+ .33	33	30	- 4	ENE	4	o	2	37	30	-
Christiansund...	30.52	42	Z	0	f	30.54	+ .23	42	41	- 2	Z	0	c	4	43	39	0.16
Skudesnaes ...	30.54	40	NNE	2	f	30.63	+ .15	38	37	- 6	ENE	2	f	3	?	?	-
Christiania Fjord (Fæder)	30.45	41	N	2	b	30.68	+ .44	35	34	- 5	NNE	2	c	1	41	34	-
Skagen (The Scaw)	30.46	38	NE	1	b	30.68	+ .41	34	33	- 5	ESE	1	c	2	41	34	-
Fanö ...	30.47	37	NW	2	o	30.61	+ .18	33	32	- 6	E	3	b	*	41	32	-
BRITISH ISLANDS.																	
Sumburgh Head	30.50	44	SSE	1	b	30.45	- .03	41	41	- 4	SSE	2	o	3	47	39	-
Stornoway ...	30.42	45	Z	0	b	30.41	- .06	45	44	- 1	SW	3	c	3	48	39	-
Wick ...	30.50	40	Z	0	b	30.44	- .08	38	38	- 4	Z	0	b	0	46	38	-
Nairn ...	30.47	34	Z	0	b	30.42	- .09	30	29	- 2	Z	0	b	1	45	29	-
Aberdeen...	30.53	39	SSW	1	b	30.51	- .06	33	32	+ 2	SSE	2	f	1	39	30	0.01
Leith ...	30.58	42	W	1	b	30.55	- .05	34	34	- 10	W	1	f	*	47	32	-
Shields ...	30.60	42	SW	1	m	30.58	- .02	30	30	- 13	S	1	f	2	43	30	-
Spurn Head ...	30.63	40	NNE	1	f	30.63	- .01	35	35	- 3	SSE	1	f	1	41	35	0.01
York ...	30.63	35	Z	0	f	30.64	- .02	32	32	- 1	S	1	f	*	39	32	0.02
Loughborough	30.65	30	ENE	1	f	30.64	- .02	30	30	0	E	1	m	*	32	28	-
GERMANY.																	
Ardrossan ...	30.57	44	S	2	o	30.56	- .03	37	37	- 6	Z	0	of	1	45	34	-
Malin Head ...	30.46	42	SSE	3	b	30.49	- .00	38	38	- 2	S	3	b	2	47	38	-
Mullaghmore ...	30.47	43	E	5	b	30.51	- .00	42	40	+ 3	S	4	b	3	53	37	-
Behnullet ...	30.39	45	ESE	5	b	30.48	+ .02	45	43	+ 4	SSE	3	o	*	52	40	-
Donaghadee ...	30.58	44	S	2	o	30.54	- .05	42	42	- 2	E	3	o	1	46	42	-
Barrow-in-Furness	30.59	38	NE	2	f	30.57	- .06	32	32	- 7	ENE	2	f	*	40	31	0.02
Liverpool (Bidston)	30.62	32	ESE	1	f	30.62	- .04	30	30	- 9	ESE	1	f	1	39	30	-
Holyhead ...	30.59	36	Z	0	f	30.57	- .05	41	41	- 1	SW	1	m	2	42	35	0.01
Parsonstown ...	30.52	43	ESE	3	o	30.56	+ .01	42	40	0	Z	0	o	*	45	40	-
Valencia ...	30.41	47	SE	7	b	30.50	+ .03	49	46	+ 1	SSE	2	om	2	52	45	-
Roche's Point...	30.53	46	SE	4	om	30.54	- .03	46	44	+ 1	SSW	4	o	4	47	45	-
Pembroke ...	30.58	41	ESE	3	o	30.59	- .04	40	39	- 2	SE	2	om	2	42	38	-
Scilly ...	30.51	46	SE	5	om	30.54	- .02	45	44	0	S	1	o	4	46	39	-
Prawle Point ...	30.61	43	E	3	f	30.60	- .05	42	42	- 1	ENE	3	f	3	44	37	-
Jersey ...	30.60	39	E	2	f	30.61	- .04	36	36	- 5	ENE	1	f	1	41	36	0.01
FRANCE & NETHERLANDS.																	
Hurst Castle ...	30.62	38	E	1	f	30.62	- .05	34	34	- 2	E	1	f	0	42	31	0.02
Dungeness ...	30.61	36	Z	0	f	30.60	- .06	40	40	+ 5	NE	1	f	1	40	34	0.02
London ...	30.64	35	Z	0	f	30.64	- .04	35	35	+ 2	Z	0	f	*	40	32	0.01
Oxford ...	30.65	32	Z	0	f	30.65	- .04	30	30	- 1	Z	0	f	*	34	30	-
Cambridge ...	30.67	36	Z	0	o	30.65	- .01	32	32	+ 1	Z	0	om	*	39	29	-
Yarmouth ...	30.62	38	NNE	1	f	30.64	- .00	38	37	0	Z	0	b	1	42	36	0.02
Cuxhaven ...	30.52	37	NW	3	f	30.60	+ .05	37	37	- 1	NE	2	f	*	41	35	-
Berlin ...	30.37	41	NW	2	o	30.52	+ .05	37	36	- 2	NNE	4	b	*	41	37	0.01
Wiesbaden ...	*	*	*	*	*	30.57	- .12	41	39	0	NW	2	o	*	43	39	-
Munich ...	30.53	34	W	2	o	30.50	- .13	34	34	- 1	SW	3	T	*	37	32	0.04
PENIN. ISLANDS.																	
The Helder ...	30.60	39	NNE	1	f	30.60	+ .01	40	40	0	NW	1	c	1	41	39	-
Brussels ...	*	*	*	*	*	30.63	- .07	36	36	0	ENE	1	T	*	38	34	0.04
Cape Gris Nez...	30.61	38	S	1	f	30.61	- .04	38	38	- 1	E	4	f	3	39	37	0.04
Paris ...	30.62	39	NE	1	f	30.59	- .04	32	32	- 8	N	3	f	*	41	31	-
Brest ...	30.52	46	SE	4	m	30.56	- .06	36	35	- 2	N	1	m	5	46	32	-
Lorient ...	30.62	39	E	3	b	30.53	- .08	30	36	- 2	E	3	m	3	?	36	-
Rochefort ...	30.53	42	ENE	5	b	30.53	- .07	39	38	- 2	ENE	7	o	2	46	34	-
Belfort ...	30.53	37	E	1	b	30.47	- .13	35	34	- 2	ENE	1	f	*	38	31	-
Lyons ...	30.56	39	N	1	o	30.51	- .08	35	35	- 3	N	3	o	*	40	35	-
Nice ...	30.56	46	W	3	b	30.20	- .26	46	39	+ 3	ESE	1	?b	1	55	39	-
Perpignan ...	30.42	41	Z	0	b	30.37	- .13	31	31	- 7	S	1	b	*	54	30	-
Biarritz ...	30.41	42	E	3	o	30.46	- .05	39	37	- 2	E	4	of	2	46	36	-
PENIN. ISLANDS.																	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.43	51	NNE	3	b	30.43	+ .02	40	40	0	N	4	f	5	54	39	-

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Thursday, 12th January.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

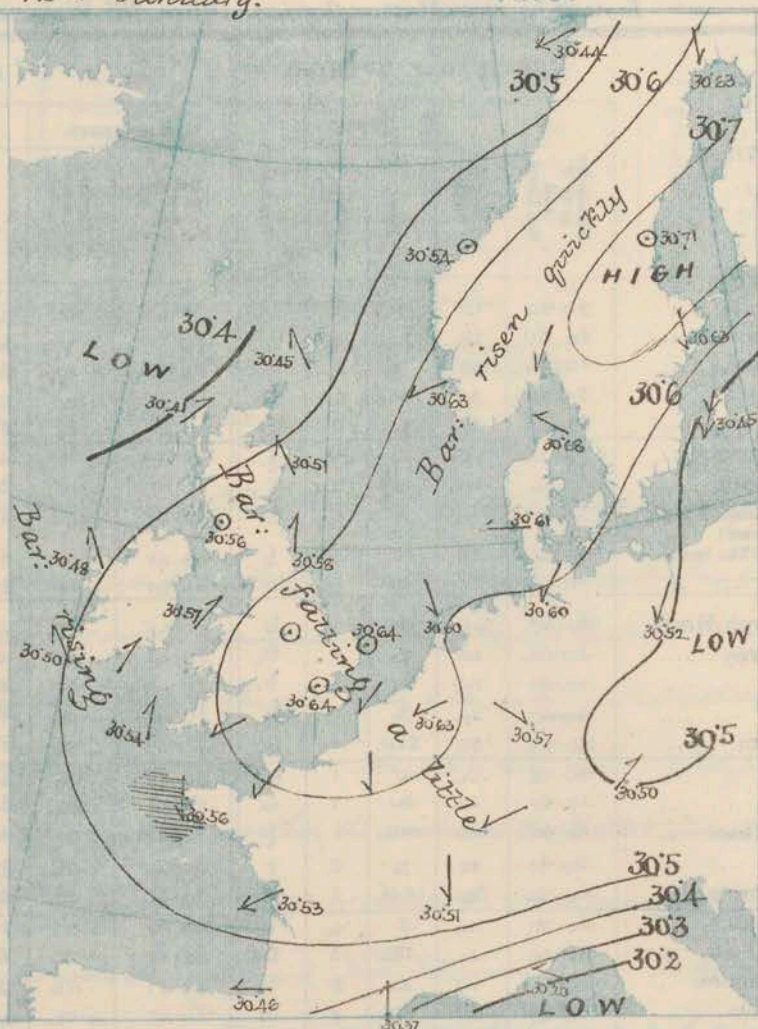
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○ — dead calm.

Sea Disturbance — where considerable is shown thus.
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head.	29.685
Stornoway.	29.687
Wick.	29.725
Nairn.	29.753
Aberdeen.	29.790
Leith.	29.829
Shields.	29.886
York.	29.935
Loughborough.	29.967
Ardrossan.	29.840
Donaghadee.	29.851
Holyhead.	29.896
Liverpool.	29.922
Parsonstown.	29.886
Valencia.	29.869
Roch's Point.	29.894
Pembroke.	29.926
Scilly.	29.960
Jersey.	30.010
Hurst Castle.	29.997
Dover.	30.017
LONDON.	30.007
Oxford.	29.997
Cambridge.	29.992
Yarmouth.	29.991



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

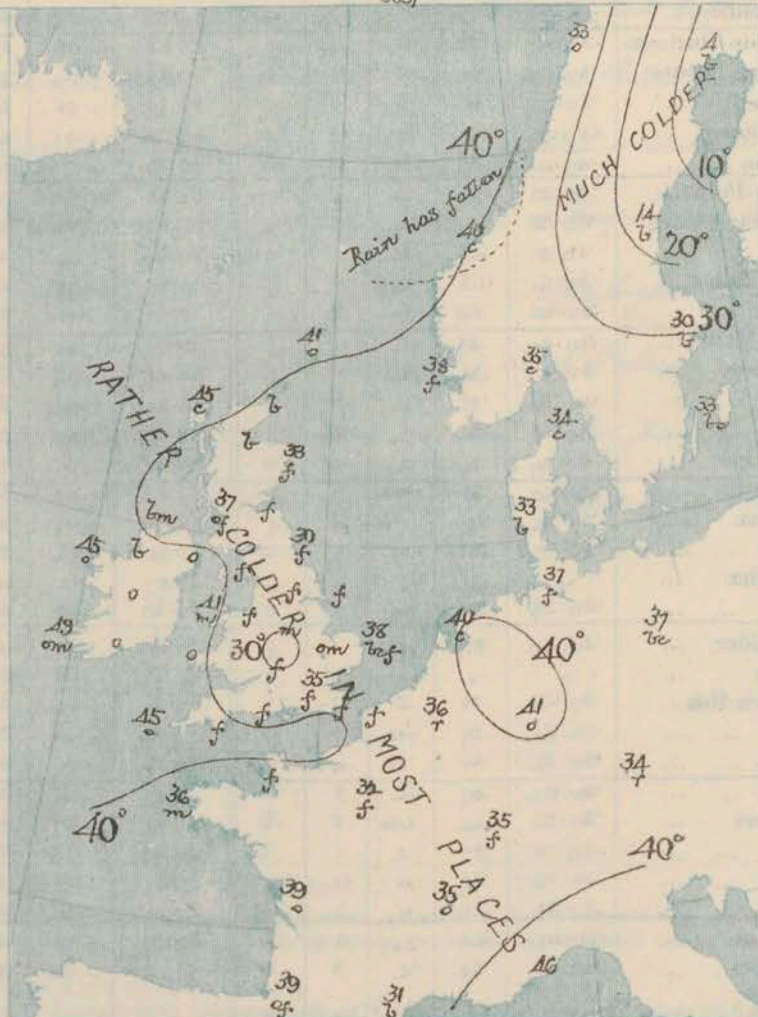
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head.	42.9	35.4	39.4	38.2	3.60
Stornoway.	42.0	34.2	39.0	37.8	5.17
Wick.	42.2	33.2	37.9	36.4	1.97
Nairn.	41.9	32.7	36.6	35.0	2.02
Aberdeen.	42.4	33.3	37.1	35.4	2.34
Leith.	44.6	33.7	38.2	36.8	1.98
Shields.	43.1	34.7	38.0	36.7	1.79
York.	43.2	33.1	36.8	35.9	1.88
Loughborough.	43.5	32.9	36.5	35.5	2.08
Ardrossan.	44.4	36.4	39.8	38.5	4.53
Donaghadee.	44.4	36.3	39.9	39.1	3.03
Holyhead.	45.9	39.0	41.7	40.3	3.49
Liverpool.	43.9	35.6	38.7	37.1	2.23
Parsonstown.	46.0	34.6	39.0	37.9	3.09
Valencia.	49.8	40.5	44.3	43.3	6.79
Roch's Point.	47.9	39.7	43.2	42.0	5.63
Pembroke.	45.8	39.9	42.8	41.2	3.92
Scilly.	49.1	43.3	46.5	45.0	3.93
Jersey.	46.0	38.7	41.7	40.4	3.24
Hurst Castle.	45.3	37.0	40.4	39.7	3.10
Dover.	43.7	36.6	39.4	38.2	2.68
LONDON.	44.6	34.4	37.9	36.8	2.30
Oxford.	43.8	34.4	37.5	36.5	2.33
Cambridge.	43.0	32.6	36.5	35.7	1.57
Yarmouth.	41.9	34.6	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins. and upwards over the central part of Sweden; 30.6 ins. and upwards, in a broad anticyclonic band extending from Sweden to England and the north of France.
Lowest, 30.2 ins. and less, over the Gulf of Genoa, 30.4 ins. and less, off the north of Scotland.

TEMPERATURE

Gradient slight. Barometer falling a little over the east of Great Britain and also over the southern part of Germany and France, but rising elsewhere.
Highest, 45° at Valencia, 46° at Harbin, 45° at Stornoway, Kilmult and Sicily, and 42° at Donaghadee, Malaga, Tarragona, and Thouléville.
Lowest, 4° at Haparanda, 14° at Helsingfors, and 30° at Stockholm, Nain, Shields, Loughborough, Liverpool, and Oxford.
That occurred last night in many parts of Great Britain.

WIND

Moderate S.W. in Ireland, light from the same quarter over Scotland and the northeast of England.
Calm or very variable over our midland, eastern, and southeastern counties.
N.E. at most of the Continental stations, but N.W. at Marseilles, and S.W. at Munich.

WEATHER

Foggy over the greater part of England and France and also in the south and east of Scotland.
Fine in Scandinavia, Denmark, and the north of Scotland.
Dull in Ireland and also over Belgium and Germany, with rain at Brussels and Munich.

SEA

Moderate on our extreme southwest coast, but light or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although the position of the high pressure area has undergone a considerable change the general distribution remains anticyclonic, and the fog is therefore not likely to decrease much at present.

A further fall of temperature is probable in many parts of the United Kingdom.

FORECASTS

for the 24 hours ending at NOON on 13th JANUARY 1888.

DISTRICTS.

FORECASTS.

0 { SCOTLAND
NORTH

S.W. winds, light; fair generally, but local fogs.

1 { SCOTLAND
EAST

-----D°-----D°-----D°-----

2 { ENGLAND
N.E.

Variable or S.W. airs; fog continuing.

3 { ENGLAND
EAST

Same as N° 5.

4 { MIDLAND
COUNTIES

Same as N° 5.

5 { ENGLAND
SOUTH

Calm and variable airs; fog continuing.

DISTRICTS.

FORECASTS.

6 { SCOTLAND
WEST

Same as N° 2

7 { ENGLAND
N.W.

Same as N° 2.

8 { ENGLAND
S.W.

SE.W. winds, light; dull, local fogs.

9 { IRELAND
NORTH


SE.W. and S.W. winds, moderate; dull, local fogs.


10 { IRELAND
SOUTH

-----D°-----D°-----D°-----

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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.53	46	44	N.W. 2	f	2	Holyhead ...	30.62	39	39	N.E. 1	f	2
Sumburgh Head ...	30.53	46	46	S 1	0	3	Valencia ...	30.43	50	47	S.E. 6	bv	6
Stornoway ...	30.46	46	45	Sw 4	bc	3	Scilly ...	30.54	45	44	E.S.E. 5	om	4
Aberdeen ...	30.55	31	30	SSW 3	0	1	Dungeness ...	30.63	40	40	2 0	f	0
Shields ...	30.61	42	41	Sw 1	m	2	London ...	30.66	40	39	2 0	f	*
Ardrossan ...	30.60	45	44	2 0	0	2	Yarmouth ...	30.61	40	39	N.E. 3	f	2
Malin Head ...	30.48	47	45	SE 3	0	2	Jersey ...	30.62	40	40	E 3	f	3
Mullaghmore ...	30.49	49	46	ESE 2	0	2	Rochefort ...	30.58	46	44	E.N.E. 5	bc	2
Belmullet ...	30.43	52	47	S 1	0	*							

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

Yesterday morning's reports showed that pressure was still highest over the British Islands, Netherlands, and northwest of France — and lowest over the White Sea and north of Russia — the readings varying from between 30.6 ins: and 30.7 ins: in the former regions to rather below 29.7 ins: in the latter. The depressions recently observed in the far north were, however, passing away to the eastward, and the barometer was rising somewhat decidedly in Scandinavia. The winds and weather were little changed over Western Europe, and the wet fog remained as prevalent as ever, but the W^{ly} winds in the far north had extended over Russia, where a decided amelioration of the frost had taken place, though the thermometer there as well as in Germany was still below the freezing point. In the western parts of the British Isles the thermometer was falling. Temperature varied from 50° and more over the greater part of the Mediterranean, ^{and} between 40° and 48° over the greater part of the British Isles to several degrees below the freezing point over Finland, Russia, and Austro-Hungary. The highest individual values at 8 am were 56° at Algiers, 54° at Longjumeau, 52° at Berlin, Malta and Brindisi, 50° at Palma, 48° at Valencia (Ireland), 46° at Stornoway, 45° at Scilly, and Leith and 44° at Christiansund and Skudesnaes; at Funchal (Madeira) the temperature was 60°. The lowest readings were 4° at Archangel, 8° at Kharkov, 13° at Mirel, 15° at New Schwassau, 22° at Swinemunde and Nicolaiiff, and 26° at Odessa. At Vienna the temperature was 37°, at Berlin 33°, and at Paris 40°.

During the day pressure continued to increase over Northern Europe and the Swedish temperatures began to give way.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 13th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.58	15	SW	4	0	30.26	-37	23	23	+19	SW	4	0	*	?	0	-
	Hernösand ...	30.70	9	Z	0	0	30.55	-16	11	10	-3	Z	0	0	*	28	7	-
	Stockholm ...	30.69	23	Z	2	0	30.65	+62	18	18	-12	Wsw	2	0	*	36	?	-
	Wisby ...	30.63	30	Z	6	0	30.65	+20	24	23	-9	E	2	0	*	36	?	-
	Bodö ...	30.78	37	E	2	0	30.17	-27	41	41	+8	Wsw	6	7	4	41	32	0.16
	Christiansund...	30.48	36	Z	0	0	30.50	-04	41	39	-1	SW	1	7	4	41	34	0.08
	Skudesnaes ...	30.64	41	SE	4	0	30.60	-03	39	38	+1	Z	0	5	3	43	36	-
	Ohristiania Fjord (Færder)	30.64	35	SSW	2	0	30.53	-15	30	30	-5	Z	0	5	1	36	27	-
	Skagen (The Scaw)	30.69	33	Z	0	0	30.60	-08	33	33	-1	SW	2	0	2	36	32	-
	Fanö ...	30.68	29	SE	2	0	30.67	+06	27	27	-6	Z	0	0	*	34	27	-
BRITISH ISLANDS.	Sumburgh Head	30.46	42	SW	1	0	30.55	+10	45	45	+4	W	1	7	1	46	39	0.02
	Stornoway ...	30.47	46	SW	5	0	30.56	+15	46	46	+1	SW	3	0	2	46	43	0.04
	Wick ...	30.52	34	Z	0	0	30.63	+19	41	41	+3	Z	0	5	0	45	30	0.02
	Nairn ...	30.51	40	SW	1	0	30.60	+18	39	37	+9	Z	0	0	1	45	29	-
	Aberdeen...	30.52	34	S	1	5	30.63	+12	32	31	-1	SSW	1	0	1	37	28	-
	Leith ...	30.57	36	SW	1	0	30.64	+09	38	37	+4	Wsw	1	0	*	41	31	-
	Shields ...	30.57	33	SW	3	5	30.65	+07	37	36	+7	Wsw	1	0	2	37	29	-
	Spurn Head ...	30.63	34	SE	2	5	30.64	+01	32	32	-3	S	2	5	2	37	32	0.01
	York ...	30.63	31	NNE	1	5	30.67	+03	29	29	-3	NNE	1	5	*	34	28	0.01
	Loughborough	30.65	31	SSW	1	5	30.67	+03	28	28	-2	ESE	1	0	*	32	28	0.01
GERMANY.	Ardrossan ...	30.59	41	Wsw	3	0	30.64	+08	43	42	+6	Z	0	0	0	43	35	-
	Malin Head ...	30.52	43	S	3	0	30.61	+12	43	43	+5	SSW	2	0	2	43	38	-
	Mullaghmore ...	30.56	45	NE	1	0	30.62	+11	44	43	+2	E	3	0	3	44	40	-
	Belmullet ...	30.53	47	SW	4	0	30.63	+15	44	44	-1	E	1	0	*	47	40	-
	Donaghadee ...	30.61	41	SW	2	8	30.64	+10	41	41	-1	Wsw	1	0	0	42	38	-
	Barrow-in-Furness	30.61	35	NE	2	5	30.63	+06	35	35	+3	NE	2	0	*	35	31	-
	Liverpool (Bidston)	30.63	36	SE	1	5	30.67	+05	38	37	+8	SE	1	0	1	38	30	0.01
	Holyhead ...	30.61	42	Z	0	0	30.65	+08	41	41	0	Z	0	0	0	44	40	-
	Parsonstown ...	30.60	43	Z	0	0	30.65	+09	42	39	-0	Z	0	0	*	45	41	-
	Valencia ...	30.56	48	SE	1	0	30.59	+09	46	44	-3	SE	1	0	1	51	45	-
FRANCE & NETHERLANDS.	Roche's Point...	30.57	46	S	2	0	30.63	+09	46	44	0	S	2	0	3	47	44	-
	Pembroke ...	30.61	38	SE	1	0	30.65	+06	33	33	-7	E	2	5	2	40	33	-
	Scilly ...	30.49	45	E	1	0	30.58	+04	45	44	0	E	4	0	4	45	43	-
	Prawle Point ...	30.62	42	ESE	3	5	30.63	+03	40	40	-2	ESE	4	5	5	44	38	-
	Jersey ...	30.61	42	NE	3	5	30.60	-01	41	40	+5	E	3	0	3	43	34	-
	Hurst Castle ...	30.64	35	E	1	5	30.65	+03	36	36	+2	NE	3	0	0	38	33	0.01
	Dungeness ...	30.63	39	ESE	3	0	30.62	+02	39	38	-1	E	2	0	1	41	37	-
	London ...	30.64	36	SE	2	0	30.67	+03	36	36	+1	E	1	0	*	38	35	-
	Oxford ...	30.66	33	Z	0	0	30.67	+02	31	31	+1	S	1	5	*	33	30	0.02
	Cambridge ...	30.66	37	Z	0	0	30.68	+03	34	34	+2	S	1	0	*	38	31	0.02
PENINSULA.	Yarmouth ...	30.65	38	SE	1	0	30.68	+04	37	36	-1	SE	1	5	2	39	35	0.03
	Cuxhaven ...	30.72	32	ESE	1	0	30.76	+16	33	32	-4	E	1	5	*	?	30	-
	Berlin ...	30.61	33	NW	4	0	30.62	+10	31	29	-6	NW	4	0	*	41	30	-
	Wiesbaden ...	*	*	*	*	*	30.67	+10	27	27	-14	Z	0	0	*	43	27	-
	Munich ...	30.51	33	Z	0	0	30.54	+04	25	24	-9	NW	1	5	*	36	25	0.12
	The Helder ...	30.66	36	E	1	5	30.69	+09	33	33	-7	SE	1	5	1	37	?	-
	Brussels ...	*	*	*	*	*	30.67	+04	33	33	-3	E	1	5	*	42	32	0.04
	Cape Gris Nez...	30.61	36	E	3	0	30.63	+02	36	36	-2	E	3	0	2	?	?	-
	Paris ...	30.16	35	NNE	3	5	30.60	+01	36	34	+4	NE	3	0	*	38	?	-
	Brest ...	30.58	37	Z	0	0	30.54	-02	40	37	+4	SE	5	0	5	46	32	-

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.

WEATHER CHARTS

for 8 a.m. on *Fridays* 13th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

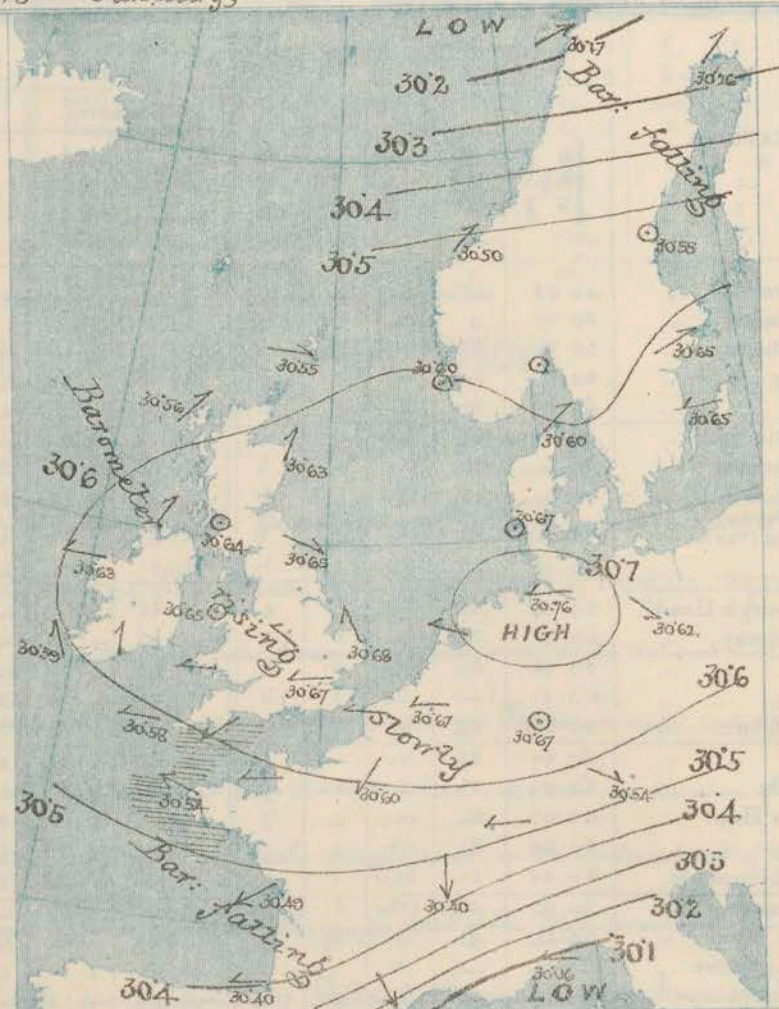
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10, * — forces 8 to 10,
 * — forces 5 to 7, * — forces 1 to 4,
 ○ — dead calm.

Sea Disturbance — where considerable is shown thus:
 ~ Rough, ~ High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumbagh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.923
Parsonstown	29.886
Valencia	29.969
Rocha's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.907
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

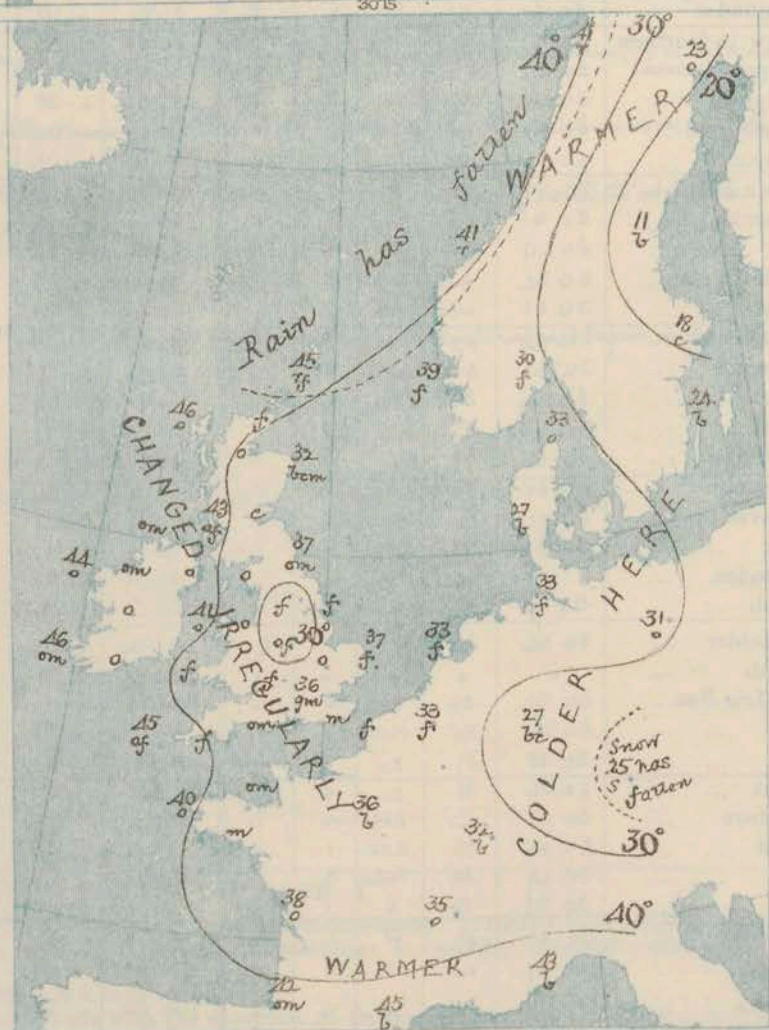
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet	
Sumbagh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Rocha's Point	47.9	39.7	43.2	42.0	5.68
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	39.5	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	42.9	32.6	36.5	35.7	1.57
Yarmouth	41.2	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins: and upwards over North Germany; 30.6 ins: and upwards in a large area extending from the Baltic and Germany to the N. and N.W. of our Islands.
Lowest, 30.1 ins: and less over the Gulf of Genoa, 30.2 ins: and less over the north of Norway.
Gradients moderate over the north of Scandinavia and south of France, but slight elsewhere. Barometer falling in Scandinavia and France, but rising in our Islands.

TEMPERATURE

Highest, 46° at Stornoway, Valueria, and Rocher; 45° at Lumburg, St. Gilles, and Tarpignan, and 44° at Bluloghem and Balmuccia.
Lowest, 11° at Hernösand, 18° at Stockholm, 23° at Kapasanda, 24° at Nisby, 25° at Munich, and 27° at Kristodan.
The maxima registered over England yesterday were very low; at Oxford the reading did not exceed 33°, while at Loughboro' the thermometer did not exceed 32°.

WIND

Moderate from the End over France; light from the same quarter in the extreme south of England.
Light from the SEnd over the more Central parts of the United Kingdom.
Calms or light SWnd airs are reported in Scandinavia and Scotland.

WEATHER

Foggy over the eastern, southern, and central parts of England, as well as in the Netherlands, the N. and W. of Scotland, and S. of Norway.
Dull and misty in most other parts of Western Europe, but fine in Sweden, and the east and south of France.
A temporary decrease of the fog was experienced last evening over the southeast of England.

SEA

Rather rough at Pointe à Pitre, Brest and Lorient, and moderate off the west of Norway, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is approaching the north of Norway, while another is forming over the Gulf of Genoa. Anticyclonic conditions are, however, likely to hold over our Islands and their immediate neighbourhood, and a continuation of dull weather is therefore probable, with mist or fog in many places.

FORECASTS

for the 24 hours ending at NOON on 14th JANUARY 1888.

DISTRICTS.


FORECASTS.


0	SCOTLAND NORTH	SW nd and W nd winds, moderate, some mist and rain.
1	SCOTLAND EAST	Light variable airs, with fog in many places.
2	ENGLAND N.E.	----- D ^o ----- D ^o ----- D ^o -----
3	ENGLAND EAST	Variable or SE nd airs; fog continuing.
4	MIDLAND COUNTIES	----- D ^o ----- D ^o ----- D ^o -----
5	ENGLAND SOUTH	Light E nd airs with fog in many places.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^o 1.
7	ENGLAND N.W.	E nd and SE nd winds, light; dull, some mist or fog.
8	ENGLAND S.W.	E nd winds, moderate; dull, foggy.
9	IRELAND NORTH	SE nd and E nd winds, light or moderate; dull misty.
10	IRELAND SOUTH	----- D ^o ----- D ^o ----- D ^o -----
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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.66	43	39	SSE 6	c	3	Holyhead ...	30.60	43	42	SW 1	om	2
Sumburgh Head ...	30.44	42	41	SW 1	c	3	Valencia ...	30.53	50	44	SE 4	om	3
Stornoway ...	30.44	46	46	SW 5	0	4	Scilly ...	30.49	45	45	ESE 1	f	5
Aberdeen ...	30.49	36	35	SSW 1	b	1	Dungeness ...	30.61	38	38	EHE 3	0	2
Shields ...	30.55	36	35	SSW 2	f	2	London ...	30.65	38	38	Z 0	f g	*
Ardrossan ...	30.56	40	39	SE 3	0	3	Yarmouth ...	30.63	39	38	SSE 1	cl f	1
Malin Head ...	30.50	43	43	S 3	0	2	Jersey ...	30.59	48	42	NNE 1	f	1
Mullaghmore ...	30.52	44	44	SSW 3	0	2	Rochefort ...	30.51	46	45	EHE 5	0	2
Belmullet ...	30.51	44	45	SW 4	0	*							

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

The reports for yesterday showed that pressure then varied from 30.7 ins: and more over some parts of Sweden and the Gulf of Bothnia, and from 30.6 ins: and more in a ridge which extended thence in a southeasterly direction across the North Sea and England to about 30.4 ins: over the Helbrides, to 30.7 ins: in the extreme southeast of France, and to rather below 29.5 ins: in a depression which had appeared over Southern Russia, where the barometer had fallen fast. The winds were consequently, N² over the Baltic, Eastern Germany, Poland, and Austria, and were increasing in force; in France they were NE³ to E⁴, while in the British Isles calm and S air were reported. The weather remained gloomy and foggy over England and the northern half of France, but was fine at our northern stations, while in Eastern Europe it was unsettled, and snow was falling, in many places. Temperature had fallen — slightly over Northern, and a great deal over Northern Europe, but had risen considerably over Southern Russia; in the latter region the frost was very slight, but over Northern Europe it had become severe. The lowest of the 8 am readings were — 18° F. at Archangel, +4° at Haparanda, 8° at Uleaborg, 14° at St. Petersburg and Helsingfors, 16° at Kuopio and Helsinki, 19° at Hangö, 20° at Moscow, 21° at Riga, 23° at Hermanstadt, 26° at Gaf, 27° at Minal and 30° at North Shields; the highest reported were 54° at Algiers, 52° at Sanguinaria, 50° at Salath, 49° at Valencia (Ireland), 46° at Kiri and Roches Point, and 45° at Stornoway, Belmullet and Scilly. (The report from Italy and Malta was not to hand.)

Later on the fog cleared away locally from the southeastern counties of England, but the sky there remained densely overcast, and the barometer began to rise.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday 14th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.			
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ..	30.30	19	Z	0	b	30.46	+ .20	12	12	- 11	Z	0	b	*	27	5	-		
	Hernösand ...	30.54	17	Z	0	b	30.64	+ .09	25	24	+ 14	Z	0	b	*	?	16	-		
	Stockholm ...	30.60	24	Z	0	o	30.62	- .03	27	26	+ 9	Z	0	f	*	32	21	-		
	Wisby ...	30.58	24	E	2	b	30.62	- .03	24	23	0	SSE	2	m	*	41	37	-		
	Bodö ...	30.43	41	NW	5	o	30.48	+ .31	41	40	0	SW	4	r	3	41	37	-		
	Christiansund...	30.65	41	NW	2	c	30.66	+ .16	38	37	- 3	E	1	c	4	41	36	0.04		
	Skudesnaes ...	30.61	35	E	1	b	30.71	+ .11	34	33	- 5	Z	0	c	2	39	?	-		
	Christiania Fjord (Færder)	30.62	32	NNE	3	b	30.67	+ .14	32	32	+ 2	N	2	b	1	32	28	-		
	Skagen (The Scaw)	30.55	34	Z	0	o	30.66	+ .06	32	31	- 1	E	2	o	2	36	30	0.04		
	Fanö ...	30.58	33	SW	1	f	30.59	- .08	31	31	+ 4	ESE	4	c	*	34	24	-		
BRITISH ISLANDS.	Sumburgh Head	30.65	44	Z	0	o	30.66	+ .11	41	41	- 4	SSE	1	om	0	46	39	0.02		
	Stornoway ...	30.61	46	SW	3	o	30.62	+ .06	43	43	- 3	SW	3	r	3	47	32	0.02		
	Wick ...	30.67	43	Z	0	f	30.63	+ .05	41	41	0	S	1	f	0	46	40	0.02		
	Nairn ...	30.65	42	Z	0	o	30.65	+ .05	38	37	- 1	Z	0	o	1	45	33	-		
	Aberdeen...	30.69	37	Z	0	f	30.69	+ .06	37	36	+ 5	Z	0	f	1	38	30	0.03		
	Leith ...	30.68	39	NW	1	o	30.67	+ .03	41	41	+ 3	NE	1	om	*	42	37	0.01		
	Shields ...	30.65	40	NW	2	om	30.61	- .04	42	42	+ 5	N	3	d	2	43	35	0.04		
	Spurn Head ...	30.64	32	SW	1	f	30.55	- .09	40	40	+ 8	NE	3	c	3	40	31	-		
	York ...	30.69	34	N	1	m	30.59	- .08	42	41	+ 13	N	1	m	*	42	27	0.03		
	Loughborough	30.69	30	WNW	1	f	30.58	- .09	35	35	+ 7	W	1	om	*	35	28	0.01		
GERMANY.	Ardrossan ...	30.67	42	Z	0	ogf	30.66	+ .02	42	41	- 1	ESE	1	om	0	43	40	-		
	Malin Head ...	30.62	41	S	2	c f d	30.63	+ .02	38	38	- 5	SSE	3	of	2	44	38	-		
	Mullaghmore ...	30.63	41	ESE	3	om	30.64	+ .02	41	39	- 3	SSE	2	om	3	46	40	-		
	Belmullet ...	30.58	44	SSE	4	o	30.64	+ .01	42	41	- 2	SSE	3	o	*	44	42	-		
	Donaghadee ...	30.67	43	E	2	o	30.65	+ .01	41	41	0	ESE	2	o	0	44	40	-		
	Barrow-in-Furness	30.65	36	NE	2	o	30.59	- .04	38	38	- 7	NW	1	f	*	43	34	-		
	Liverpool (Bidston)	30.68	38	ESE	1	m	30.63	- .04	36	36	- 2	SSE	1	f	1	38	34	0.02		
	Holyhead ...	30.66	40	ESE	1	o	30.62	- .03	39	39	- 2	ESE	3	m	2	42	37	-		
	Parsonstown ...	30.65	42	Z	0	o	30.65	- .00	38	36	- 4	Z	0	o	*	42	37	-		
	Valencia ...	30.60	47	SE	3	og	30.61	+ .02	42	40	- 4	E	2	om	2	47	41	-		
FRANCE & NETHERLANDS.	Roche's Point...	30.63	44	S	2	og	30.62	- .01	42	41	- 4	E	3	om	4	46	41	-		
	Pembroke ...	30.66	34	E	2	f	30.58	- .04	38	37	+ 5	NE	2	om	1	38	33	-		
	Scilly ...	30.58	45	E	5	o	30.53	- .05	42	40	- 3	NE	4	o	4	45	40	-		
	Prawle Point ...	30.68	40	ESE	4	m	30.55	- .08	32	32	- 8	N	3	f	3	40	29	-		
	Jersey ...	30.60	40	ESE	4	om	30.53	- .04	40	38	- 1	NNE	2	om	2	41	36	-		
	Hurst Castle ...	30.65	37	ESE	3	m	30.58	- .04	33	33	- 3	NNE	3	mts	1	38	30	0.01		
	Dungeness ...	30.62	38	ESE	2	c	30.53	- .09	33	32	- 6	NE	3	c	2	39	32	-		
	London ...	30.67	38	E	2	o	30.58	- .09	32	31	- 4	E	1	ogf	*	39	31	-		
	Oxford ...	30.68	31	SW	1	f	30.59	- .09	31	30	0	SW	1	ogf	*	32	28	-		
	Cambridge ...	30.69	35	SW	1	o	30.56	- .12	32	32	- 2	N	1	3	*	35	28	-		
PENINSULA.	Yarmouth ...	30.66	37	Z	0	om	30.57	- .11	33	33	- 4	Z	0	f	2	33	31	-		
	Cuxhaven ...	30.72	30	SW	2	f	30.62	- .14	32	31	- 1	SW	2	f	*	?	30	-		
	Berlin ...	30.60	31	NW	2	o	30.56	- .06	27	26	- 4	NW	2	o	*	34	25	-		
	Wiesbaden ...	*	*	*	*	*	30.59	- .08	24	23	- 3	E	1	b	*	37	23	-		
	Munich ...	30.54	26	Z	0	o	30.47	- .07	23	21	- 2	NW	1	o	*	30	23	0.04		
	The Helder ...	30.66	30	ESE	1	f	30.58	- .11	29	29	- 4	S	1	f	1	34	29	-		
	Brussels ...	*	*	*	*	*	30.60	- .04	27	27	- 6	E	1	o	*	38	26	-		
	Cape Gris Nez...	30.58	35	E	3	b	30.48	- .15	28	28	- 8	SE	1	f	0	39	27	-		
	Paris ...	30.60	35	NE	1	b	30.54	- .06	28	27	- 8	N	1	S	*	?	27	-		
	Brest ...	30.54	37	NE	4	o	30.47	- .04	34	33	- 6	ESE	4	o	6	45	32	-		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on *Saturday 14th January, 1888.*

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10, — = forces 8 to 10;
 — = forces 5 to 7, — = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance — where considerable is shown thus.
 — = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.846
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.962
Yarmouth	29.961



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

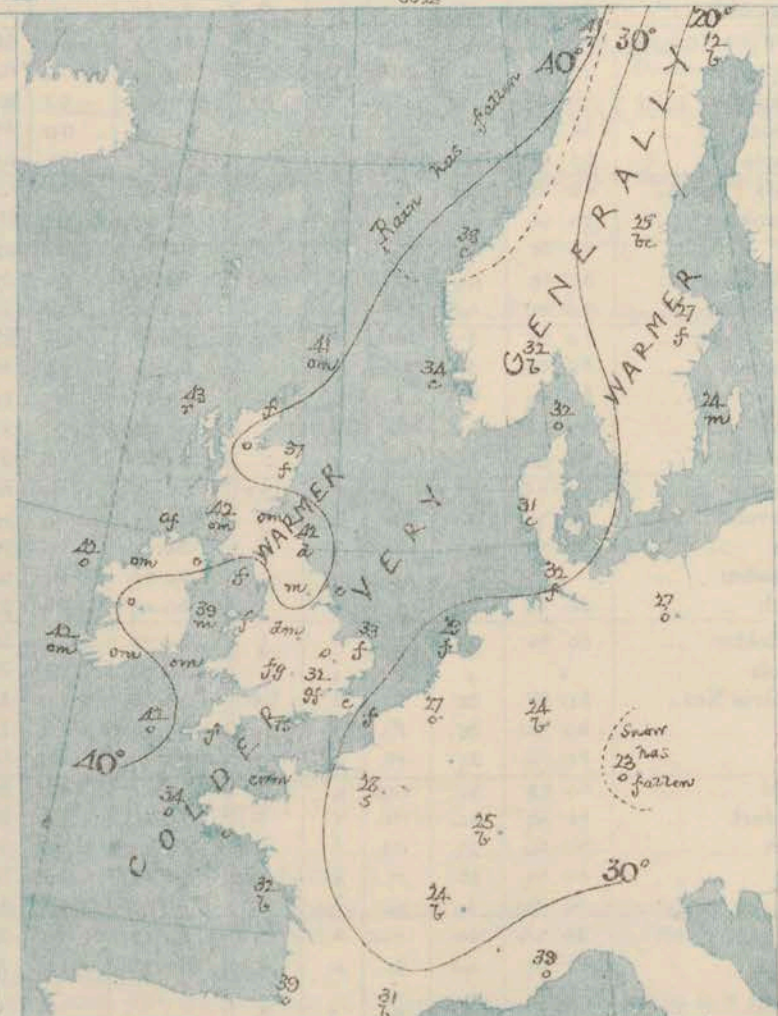
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.60
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.38
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.6	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	6.63
Pembroke	45.8	39.9	42.8	41.2	3.93
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.5	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. and more over the whole of Ireland, Scotland and the greater part of Scandinavia, the North Sea and Holland.
Lowest, 30.2 ins. and less, over the southern parts of the Iberian Peninsula and apparently over the northern part of the Mediterranean.
Gradients, very slight except in the extreme south. Barometer rising slightly in the north, falling a little in the south.

TEMPERATURE

Highest, 43° at Hornswoy, 42° at Shields, York, Anderson, Helmsdale, Valerian, Rochespoint, and Kelly, and 41° at Christchurch.
Lowest, 12° at Haparanda, 13° at Munich, 24° at Lyons, Wiesbaden and Wies, 25° at Belfast and Harrogate, 27° at Berlin and Brussels, 28° at Paris.
Sharp frost has again set in over Germany and Central France.

WIND

NE (but variable) over the southern half of our area, light to moderate in force.
SW in the Hebrides and northwest of Norway — SE light in the north of Ireland.
Calms and variable airs prevail in Scotland and over the southern part of Scandinavia.

WEATHER

Fine in the southwest and south of France; dull, misty and gloomy at our southern stations and in the north of France, with slightly showery in places.
Gloomy with wet fog in the north and northeast.
At Hornswoy and Bodo rain is falling.

SEA

Slight or smooth on all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometric fall in the south will probably not become serious, and a continuation of anticyclonic conditions over the northern or central part of our area is probable.

The E. breezes will probably bring colder weather to England than has prevailed recently, with very slight passing showers of wet mist or sleet.

FORECASTS

for the 24 hours ending at NOON on 15th January 1888.

DISTRICTS.

FORECASTS.

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

Calms and NE^{ly} airs; dull, foggy.

----- D° ----- D° ----- D° -----

NE^{ly} breezes, light; fair.

Same as N° 5

Same as N° 2

NE^{ly} winds, light to moderate, gloomy, some slight cold showers.

DISTRICTS.

FORECASTS.

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

Same as N° 0

Same as N° 0


NE^{ly} breezes, moderate; dull.


Calms and variable airs, foggy, colder.

----- D° ----- D° ----- D° -----

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes ...	30.58	39	38	N 2	0	3	Holyhead ...	30.65	42	41	Z 0	om	0
Sumburgh Head ...	30.61	45	45	Z 0	m	1	Valencia ...	30.60	47	44	S 3	og	3
Stornoway ...	30.61	47	47	SW 3	r	3	Scilly ...	30.58	44	44	E 4	om	4
Aberdeen ...	30.64	37	36	S 1	0	1	Dungeness ...	30.64	39	37	E 3	0	1
Shields ...	30.64	39	38	NW 2	0	2	London ...	30.67	39	38	E 1	ofg	*
Ardrossan ...	30.66	42	41	NE 2	0	1	Yarmouth ...	30.66	38	37	SW 1	ofg	1
Malin Head ...	30.63	44	43	S 2	0	2	Jersey ...	30.62	41	39	ESE 3	0	3
Mullaghmore ...	30.53	43	41	SSE 3	om	2	Rochefort ...	30.49	43	41	ESE 7	bc	2
Belmullet ...	60	44	42	SSE 3	0	*							

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

The reports for yesterday morning showed that while the highest pressures of all (30.7 ins. and upwards) were reported over Northern Germany, a large anticyclonic system with readings above 30.5 ins. extended over nearly the whole of Northern, Central and Western Europe. The lowest pressures (30.1 ins. and less) were found in a small depression lying over the Gulf of Genoa, but another disturbance with readings below 30.2 ins. was approaching the extreme north of Norway. The wind was SW² or W¹ in Scandinavia and the north of Ireland and E² or NE² over the southern part of Europe, but in the more central districts it was very light and variable. The weather was fine on the shores of the Baltic as well as in Algeria and the east and south of France, but cloudy elsewhere, with rain in the west of Norway and fog or mist in many other localities. Temperatures had fallen in Russia, Germany, the Netherlands and Algeria, but in our Islands the changes were slight and irregular; readings ranging from 45° and upwards over the west of Ireland and over Southern Europe generally to a few degrees below zero over the Gulf of Finland. The principal area of frost lay over the whole of Central and Northern Europe, but smaller ones were found respectively over the east of Scotland, and the central parts of England, Spain, and Algeria. The highest individual readings were 53° at Malta, 52° at Sanguinaria, 51° at Algiers, 50° at Cagliari, 49° at Toulon, and 48° at ... Barcelona, and ... the lowest were -10° at Kuopio, -4° at Helsinki, +1° at Hangö, 7° at Riga, 9° at Uleaborg and Moscow, 11° at Helsingfors, and 17° at Memel.

In the course of the day the depression off the north of Norway moved eastwards, and the barometer rose somewhat at the Norwegian stations. In the evening the large anticyclone showed a tendency to move slowly northwards and some extension of the E² and NE² winds was reported in clearer weather over the south of our Islands.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 15th JANUARY 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Secs. (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dir.	Force.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Force (0 to 12.)			Max.	Min.	
SCANDINAVIA.	Haparanda ...	30.58	1	2	0	b	30.39	-.07	16	16	+ .4	2	0	b	*	19	0	—	—
	Hernösand ...	30.72	19	2	0	b	30.70	+ .06	16	15	- .9	2	0	b	*	28	14	—	—
	Stockholm ...	30.71	20	2	0	f	30.76	+ .04	28	27	+ .1	2	0	a	*	28	23	—	—
	Wisby ...	30.67	30	SE	2	0	30.78	+ .11	32	31	+ .8	SE	2	0	*	34	21	—	—
	Bodö ...	30.48	42	SW	5	0	30.40	-.08	41	39	- .2	SW	6	0	3	43	39	—	—
	Christiansund ...	30.68	36	2	0	0	30.67	+ .01	37	36	- .1	SW	4	0	4	39	30	—	—
	Skudesnaes ...	30.74	36	2	0	0	30.75	+ .04	35	35	+ .1	2	0	0	2	36	34	—	—
	Christiania Fjord (Færder)	30.73	32	N	2	b	30.74	+ .07	29	2	- .3	N	2	b	1	32	25	—	—
	Skagen (The Scaw)	30.71	33	E	1	b	30.73	+ .07	28	28	- .4	SE	1	0	1	34	28	—	—
	Faßö ...	30.69	30	ENE	2	b	30.70	+ .11	30	30	- .1	2	0	c	*	32	30	—	—
BRITISH ISLANDS.	Sumburgh Head	30.66	42	SW	1	0	30.67	+ .01	41	40	- .1	2	0	0	0	43	39	0.01	—
	Stornoway ...	30.61	44	SW	4	0	30.63	+ .01	43	42	- .1	SW	3	0	3	44	41	0.02	—
	Wick ...	30.68	40	5	2	0	30.69	+ .01	38	36	- .3	S	1	0	2	41	36	—	—
	Nairn ...	30.66	36	2	0	0	30.68	+ .03	35	34	- .1	2	0	0	1	40	35	0.01	—
	Aberdeen ...	30.70	40	SE	1	0	30.70	+ .01	38	37	+ .1	S	1	0	1	41	36	—	—
	Leith ...	30.67	29	NE	1	0	30.68	+ .01	38	38	- .3	SE	1	0	*	42	37	0.01	—
	Shields ...	30.64	41	ENE	2	0	30.66	+ .02	40	39	- .1	ENE	2	0	3	43	37	—	—
	Spurn Head ...	30.54	39	ENE	2	0	30.59	+ .04	38	37	- .1	E	4	0	3	44	34	—	—
	York ...	30.62	40	N	1	0	30.64	+ .05	38	37	- .1	E	1	0	*	43	36	0.01	—
	Loughborough	30.59	39	ENE	1	0	30.58	-.01	35	35	- .1	ENE	2	0	*	39	33	0.03	—
GERMANY.	Ardrossan ...	30.65	40	ENE	2	0	30.65	-.01	39	38	- .1	ENE	1	0	1	42	36	—	—
	Malin Head ...	30.68	41	2	0	0	30.59	-.04	40	40	+ .2	ESE	4	0	3	41	28	—	—
	Mullaghmore ...	30.62	39	ESE	4	0	30.60	-.04	41	39	- .2	ESE	4	0	4	41	38	—	—
	Belmullet ...	30.63	41	E	3	0	30.60	-.04	40	38	- .2	E	4	0	*	44	37	—	—
	Donaghadee ...	30.64	42	E	3	0	30.64	-.01	40	39	- .1	E	4	0	2	43	39	—	—
	Barrow-in-Furness	30.57	39	NE	2	0	30.57	-.02	37	36	- .1	NE	1	0	*	41	36	—	—
	Liverpool (Bidston)	30.60	40	ENE	3	0	30.60	-.03	37	36	+ .1	E	2	0	2	41	35	—	—
	Holyhead ...	30.57	42	NE	4	0	30.57	-.05	38	37	- .1	ENE	3	0	2	44	35	—	—
	Parsonstown ...	30.59	39	2	0	0	30.57	-.08	39	37	+ .1	2	0	0	*	41	35	—	—
	Valencia ...	30.55	42	SSW	1	0	30.50	-.11	42	40	- .2	ENE	2	0	2	45	36	—	—
FRANCE & NETHERLANDS.	Roche's Point ...	30.58	41	ENE	3	0	30.50	-.12	40	38	- .2	ENE	3	0	4	43	38	—	—
	Pembroke ...	30.50	40	E	3	0	30.50	-.08	36	35	- .1	E	3	0	2	41	33	—	—
	Seilly ...	30.42	39	NE	5	0	30.39	-.14	40	38	- .2	E	6	0	5	42	35	—	—
	Prawle Point ...	30.45	35	ENE	5	0	30.42	-.13	36	35	+ .1	ENE	6	0	5	39	31	—	—
	Jersey ...	30.42	39	NE	3	0	30.35	-.18	38	36	- .2	ENE	6	0	5	43	36	—	—
	Hurst Castle ...	30.50	36	NE	4	0	30.44	-.14	37	36	+ .1	ENE	5	0	2	37	30	—	—
	Dungeness ...	30.49	37	E	4	0	30.44	-.09	34	32	+ .1	E	5	0	4	37	31	—	—
	London ...	30.56	35	ENE	3	0	30.52	-.06	33	32	+ .1	ENE	3	0	*	36	32	—	—
	Oxford ...	30.57	32	E	1	0	30.53	-.06	35	32	+ .3	ENE	3	0	*	37	31	0.01	—
	Cambridge ...	30.58	33	NE	1	0	30.55	-.01	33	32	+ .1	NE	1	0	*	36	30	—	—
PENINSULA.	Yarmouth ...	30.56	37	ENE	2	0	30.53	-.04	34	32	+ .1	ENE	5	0	4	38	31	0.02	—
	Cuxhaven ...	30.64	31	E	2	0	30.70	+ .08	29	28	- .1	E	3	0	*	31	26	—	—
	Berlin ...	30.62	27	NE	4	0	30.66	+ .10	22	21	- .1	NE	3	0	*	30	21	—	—
	Wiesbaden ...	*	*	*	*	*	30.51	-.08	26	25	+ .1	NE	3	0	*	32	24	—	—
	Munich ...	30.41	24	NE	4	0	30.36	-.11	18	15	- .3	ESE	5	0	*	27	18	—	—
	The Helder ...	30.58	35	ENE	3	0	30.62	+ .04	29	28	- .1	E	3	0	3	34	28	—	—
	Brussels ...	*	*	*	*	*	30.49	-.11	29	28	+ .1	E	4	0	*	30	26	—	—
	Cape Gris Nez ...	30.49	29	E	4	0	30.43	-.05	28	28	- .1	E	7	0	5	34	28	—	—
	Paris ...	30.43	33	NE	4	0	30.36	-.18	26	25	- .1	NE	4	0	*	36	26	—	—
	Brest ...	30.31	41	E	4	0	30.32	-.15	35	32	+ .3	ENE	4	0	5	46	32	—	—

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Sunday 15th January

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

■ = Rough ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.967
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by letters of the Beaufort Scale.

Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

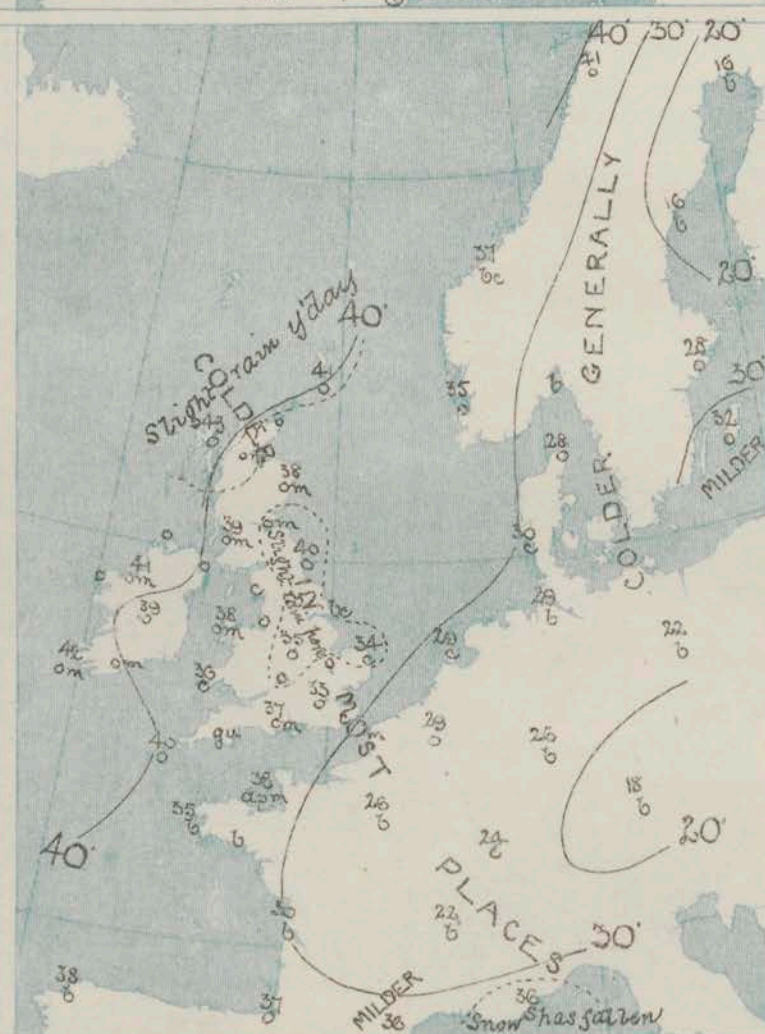
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.03
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.6	39.9	42.8	41.2	3.93
Scilly	40.1	43.3	46.5	45.0	3.03
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 10 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins. and upwards, over the Baltic, Denmark, the south of Scandinavia, and the greater part of the North Sea.
 Lowest, 30.1 ins. and less, over the British Islands; 30.4 ins. and less, in the north of Scandinavia.
 Gradients moderate over the north of Scandinavia, and also over France, Germany, and the south of our Islands.
 Barometer falling a little in most places.

TEMPERATURE

Highest, 49° at Storöy, 47° at Valencia, 41° at Gdö, Lumburg H^t, and Mullaghmore, and 40° at Malin H^t, Belmullet, Rock Point, Scilly.
 Lowest, 16° at Haparanda and Hernösand, 18° at Narvik, 22° at Berlin and Lyons, and 24° at Belfort.
 Frost occurred last night over the southern parts of the United Kingdom.

WIND

E over England, Ireland, France, Germany and the Netherlands; fresh or strong in force in many places.
 Light S.W. in the north of Scotland; moderate to strong from the same quarter in the west of Norway.
 Calms or variable airs prevail over Denmark, and the south of Scandinavia.

WEATHER

Fine in Germany and also in many parts of Scandinavia and France.
 Cloudy or overcast elsewhere, with mist at several of our western and southern stations.
 Snow is falling at Nice and passing showers of drizzling rain at Jersey.

SEA

Rather rough in the English Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclonic system appears to be receding in an easterly direction, and, although there are no indications of the advance of any definite depression gradients for easterly winds are increasing over France and the south of our Islands.

FORECASTS

For the 24 hours ending at NOON on 16th JAN^y 1888.

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

WARNINGS

NONE ISSUED

The Cone has been hoisted this morning in district 5 and part of 8.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.64	36	35	Z 0	0	2	Holyhead ...	30.59	42	42	NNE 3	c	2
Sumburgh Head ...	30.67	41	41	Z 0	odp	0	Valencia ...	30.56	42	40	NNE 1	on	1
Stornoway ...	30.60	44	43	SE 3	0	3	Scilly ...	30.46	42	40	NNE 3	on	4
Aberdeen ...	30.70	40	39	SE 2	0	1	Dungeness ...	30.49	35	35	E 4	c	3
Shields ...	30.63	41	39	NE 2	0	3	London ...	30.54	35	33	E 2	v	*
Ardrossan ...	30.63	41	41	ENE 1	on	1	Yarmouth ...	30.54	37	36	NE 2	c	2
Malin Head ...	30.61	40	40	S 2	0	1	Jersey ...	30.44	43	40	NE 2	bum	2
Mullaghmore ...	30.62	40	38	E 3	on	4	Rocheport ...	30.36	36	35	NE 7	bc	2
Belmullet ...	30.62	41	40	SE 3	0	*							

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

The reports for yesterday morning showed that pressure varied from about 30.7 ins. at Skudesnaes and Aberdeen, and from 30.5 ins. and more, in a broad anticyclonic band, which stretched from the Atlantic in an E^{ly} direction across the British Isles, North Sea, the southern half of Scandinavia, Holland, North Germany, and the Baltic to Russia. To the N^W there was hardly any appreciable gradient for W^{ly} winds, while to the southward the readings decreased so gradually that, even over the southeastern parts of the Mediterranean, the barometer stood as high as 30.1 ins. Pressure was, however, inclined to decrease slowly in the southwest and south and to rise in the north. E^{ly} and NE^{ly} breezes were beginning to be general over Spain, France, and the south of our Islands as well as over North Germany and the Baltic, and were bringing with them cold, dry, and in many cases cloudy weather, while the calm misty and relatively milder weather of the anticyclonic system was confined to the more northern parts of our area. Temperature was low (froty) over the Continent generally, and also over the southern (central) parts of Algeria. The lowest individual readings reported were 2° F. at St. Petersburg, 5° at Moscow, 7° at Riga and Lemberg, 9° at Archangel, 10° at Uleaborg, 11° at Warsaw, 12° at Hapsburg, 15° at Memel, 17° at Krasnodar and Kiev, 21° at Breslau, 23° at Munich, 25° at Lyons, Beauvais, Belfort and Huningue, 27° at Berlin and Brussels, 28° at Paris and Havre, and 32° in London; the highest were 55° at Palma, 53° at Algiers, 48° at Fontana, 46° at Oporto, Corsica, Sanseverino, and Rindisi, 43° at Stornoway, 42° at Shields and Belmullet, Valencia and Scilly.

Later in the day the E^{ly} wind in the south became more general and freshened somewhat, with a few slight cold showers in places.

EXPLANATION OF 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.
† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 16th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.													
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.														
SCANDINAVIA.																														
Haparanda ..	30.22	25	SW	2	b	30.13	-16	31	30	+15	W	2	b	*	?	0	-													
Hernösand ...	30.61	26	Z	0	b	30.52	-18	33	32	+17	Z	0	bc	*	2	14	-													
Stockholm ...	30.78	25	Z	0	c	30.71	-05	26	24	-2	W	2	0	*	3	25	-													
Wisby ...	30.78	31	SE	2	c	30.74	+01	32	30	0	W	6	0	*	37	27	-													
Bodö ...	30.32	41	SW	8	r	30.34	-06	36	34	-5	W	6	0	*	41	34	0.12													
Christiansund...	30.67	40	W	3	b	30.63	-04	40	39	+3	W	3	f	4	41	37	-													
Skudesnaes ...	30.73	36	Z	0	0	30.72	-03	35	34	0	SE	3	0	3	36	34	-													
Christiania Fjord (Færder)	30.75	29	S	2	s	30.72	-02	31	31	+2	SE	2	0	1	?	25	-													
Skagen (The Scaw)	30.75	30	SE	1	0	30.75	+02	30	29	+2	SW	1	0	1	30	24	-													
Fanö ...	30.71	28	SE	4	0	30.70	00	31	30	+1	SE	4	0	*	32	30	-													
BRITISH ISLANDS.																														
Sumburgh Head	30.69	39	Z	0	0	30.68	+01	36	36	-5	Z	0	c	0	42	33	0.02													
Stornoway ...	30.65	41	Z	0	0	30.63	00	38	38	-5	E	4	0	3	43	36	-													
Wick ...	30.67	39	S	1	0	30.67	-02	40	39	+2	S	1	c	0	40	38	-													
Nairn ...	30.67	35	Z	0	0	30.65	-03	30	29	-5	Z	0	bc	0	36	26	-													
Aberdeen...	30.69	40	SE	1	0	30.68	-02	35	35	-3	SE	1	f	1	41	34	0.02													
Leith ...	30.66	38	SE	1	0	30.63	-05	38	37	0	SE	1	cp	*	40	36	-													
Shields ...	30.62	40	E	2	0	30.59	-07	37	35	-3	E	3	c	3	40	35	-													
Spurn Head ...	30.68	38	E	4	bc	30.54	-05	36	34	-2	E	5	c	4	43	34	-													
York ...	30.62	38	E	2	0	30.58	-06	35	34	-3	E	1	m	*	40	34	-													
Loughborough	30.58	33	NE	2	0	30.53	-05	32	30	-3	E	4	og	*	37	30	-													
Ardrossan ...	30.63	40	E	1	0	30.61	-04	38	38	-1	E	1	om	1	40	37	-													
Malin Head ...	30.57	40	E	3	og	30.55	-04	40	40	0	E	4	0	3	40	40	-													
Mullaghmore ...	30.59	41	E	5	om	30.55	-05	39	37	-1	SE	4	om	3	41	39	-													
Belmullet ...	30.58	40	E	2	0	30.56	-04	39	38	-1	E	2	0	*	40	37	-													
Donaghadee ...	30.61	41	E	4	0	30.58	+03	40	38	0	E	4	0	2	42	39	-													
Barrow-in-Furness	30.56	38	NE	3	0	30.53	-03	36	34	-1	NE	1	c	*	40	35	-													
Liverpool (Bidston)	30.57	36	E	3	0	30.53	-07	35	33	-2	E	3	0	2	39	35	-													
Holyhead ...	30.55	38	E	5	cm	30.51	-06	37	35	-1	E	5	0	4	40	36	-													
Parsonstown ...	30.54	39	Z	0	b	30.51	-06	34	32	-5	Z	0	0	*	40	29	-													
Valencia ...	30.48	39	SE	1	cm	30.46	-04	32	30	-10	NE	1	bm	1	43	28	-													
Roche's Point...	30.48	40	E	3	c	30.45	-05	35	33	-5	E	3	c	4	42	33	-													
Pembroke ...	30.46	37	E	3	b	30.44	-06	31	29	-5	E	2	b	1	39	29	-													
Scilly ...	30.34	39	E	6	0	30.30	-04	37	35	-3	E	6	0	5	40	34	-													
Prawle Point ...	30.38	34	E	6	0	30.33	-04	35	34	-1	E	6	0	6	38	32	-													
Jersey ...	30.33	34	E	7	om	30.29	-06	34	33	-4	E	5	cm	4	38	31	-													
Hurst Castle ...	30.41	33	E	5	bc	30.39	-05	34	33	-3	E	7	c	4	37	32	-													
Dungeness ...	30.38	35	E	5	c	30.40	-04	32	31	-2	SE	5	c	3	35	30	-													
London ...	30.47	33	E	4	c	30.44	-03	33	33	0	E	4	og	*	35	32	-													
Oxford ...	30.50	30	NE	5	b	30.48	-05	30	29	-5	NE	4	0	*	35	30	-													
Cambridge ...	30.52	32	E	1	b	30.50	-05	32	31	-1	E	2	0	*	35	27	-													
Yarmouth ...	30.53	34	E	6	bc	30.51	-02	33	32	-1	E	6	cg	5	34	31	-													
Cuxhaven ...	30.70	29	E	4	0	30.67	-03	28	27	-1	E	4	0	*	30	26	-													
Berlin ...	30.67	23	SE	3	0	30.67	+01	25	24	+3	SE	3	0	*	27	23	-													
Wiesbaden ...	*	*	*	*	*	30.48	-03	24	24	-2	NE	2	b	*	32	23	-													
Munich ...	30.34	21	E	4	bc	30.40	+04	17	17	-1	SW	2	m	*	27	14	-													
FRANCE & NETHERLANDS.																														
The Helder ...	30.57	30	E	4	b	30.56	-06	26	25	-3	E	4	c	3	30	25	-													
Brussels ...	*	*	*	*	*	30.45	-04	25	23	-4	E	1	b	*	31	24	-													
Cape Gris Nez...	30.35	29	NE	5	bc	30.39	-04	25	23	-3	NE	3	b	2	32	23	-													
Paris ...	30.32	28	NE	3	b	30.34	-02	28	27	+2	NE	3	m	*	31	23	-													
Brest ...	30.27	33	E	7	0	30.29	-03	29	28	-6	E	3	0	5	37	?	-													
Lorient ...	30.22	33	E	4	c	30.21	-08	30	29	-5	E	5	0	3	?	27	-													
Rochefort ...	30.19	32	E	7	bc	30.14	-05	32	32	+2	E	5	c	-	34	25	-													
Belfort ...	30.27	26	E	3	b	30.36	+15	22	22	-2	E	1	b	*	29	17	-													
Lyons ...	*	*	*	*	*	30.38	+16	34	?	-2	E	3	bc	3	30	34	-													
Nice ...	30.27	38	E	1	0	30.38	+16	34	?	-2	E	3	bc	3	30	34	-													
Perpignan ...	30.14	38	W	2	0	30.20	+08	44	44	+8	SE	3	r	*	39	28	0.12													
Biarritz ...	30.02	42	E	4	c	30.06	-02	36	34	-1	SE	5	0	2	46	34	-													
PENINSULA.																														
Corunna ...	*	*	*	*	*	30.08	+02	42	42	+4	NE	4	0	2	42	?	-													
Lisbon ...	30.02	41	NE	3	f	*	*	*	*	*	*	*	*	*	*	*	-													

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 16th January, 1888.

BAROMETER, WIND & SEA

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;
○ = dead calm.

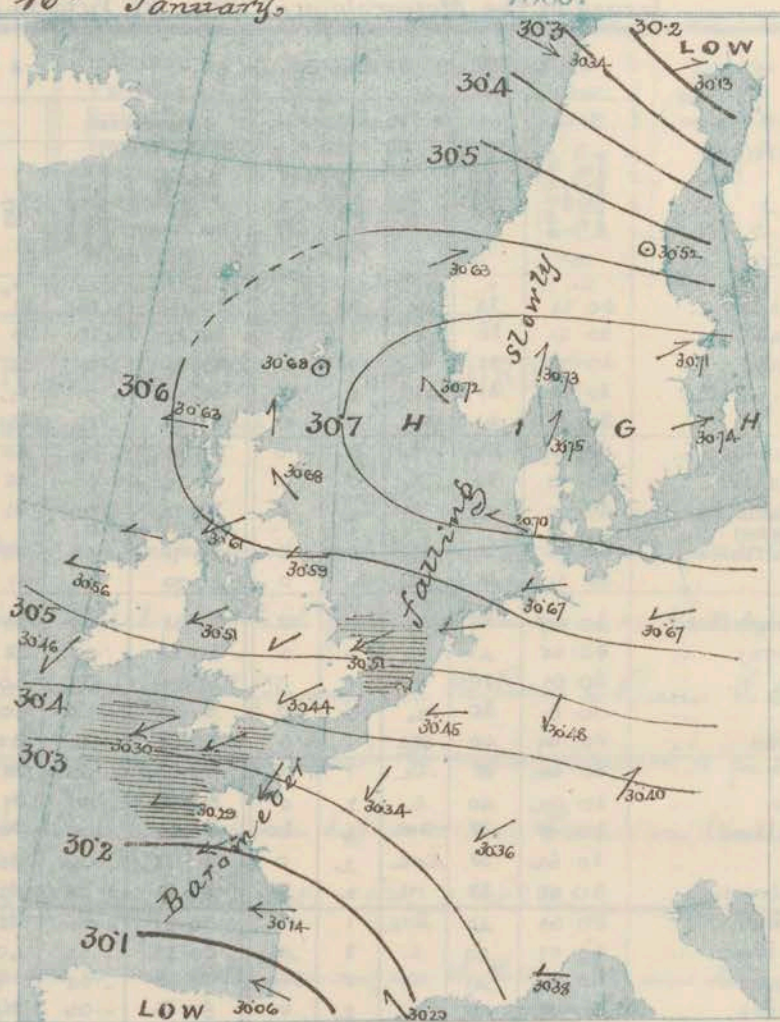
Sea Disturbance — where considerable is shown thus:

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January
During the 18 Years 1871—1888.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.806
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.967
Dover	30.017
LONDON	30.007
Oxford	29.907
Cambridge	29.922
Yarmouth	29.961



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

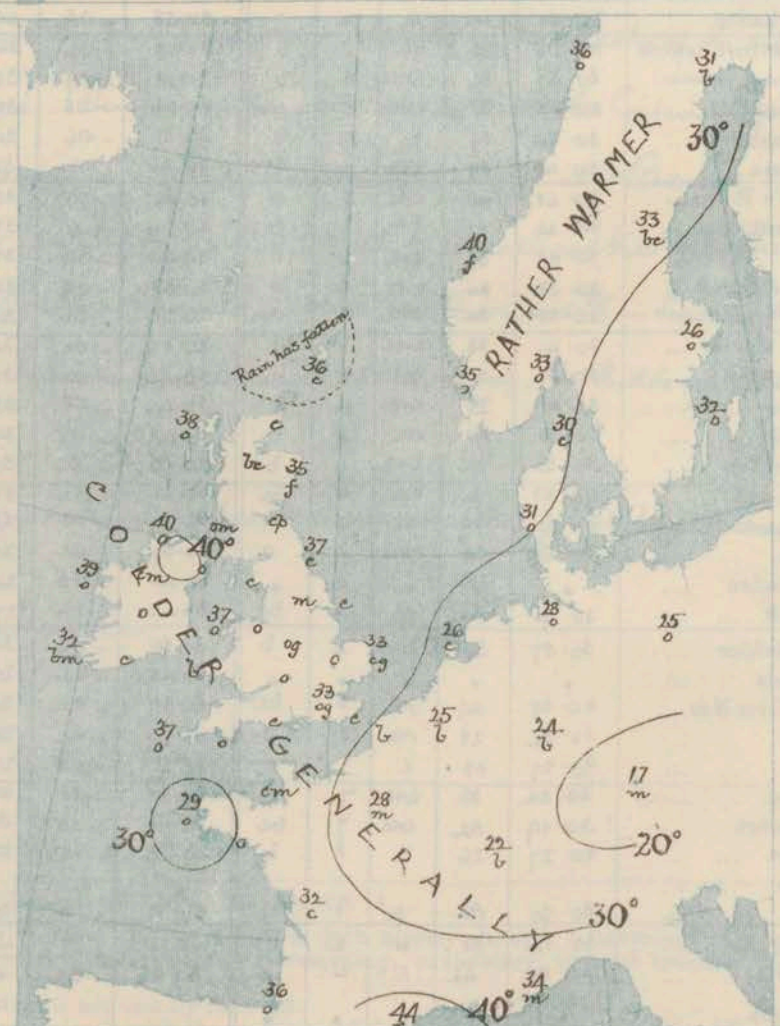
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	5 P.M. or Dew.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	43.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.3	36.8	1.08
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.0	36.5	35.5	2.08
Ardrossan	44.4	35.4	39.8	38.5	4.58
Donaghadee	44.4	35.3	39.9	39.1	3.03
Holyhead	45.0	39.0	41.7	40.3	3.49
Liverpool	43.9	35.8	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.67
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 18 years 1871—88, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in. and upwards, over the Baltic, the south of Scandinavia and the north of Denmark.
 Lowest, 30.1 in. and less, over Spain and the southern part of the Bay of Biscay, 30.2 in. and less, over the north of Sweden.
 Gradients moderate over the north of Scandinavia and south of England, but slight elsewhere.
 Barometer rising in Germany and the east and south of France, but falling slightly in most other localities.

TEMPERATURE

Highest, 44° at Perpignan, 42° at Lisbon, 40° at Christiansund, Mirk, Malin H., and Dargachades, and 39° at Mullaghmore and Belmullet.
 Lowest, 17° at Munich, 22° at Belfort, 24° at Wiesbaden, 25° at Berlin and Brussels, and 26° at Stockholm and Mider.
 Frost occurred last night over the Central and southern parts of our islands.

WIND

W^{ly} over the greater part of Scandinavia, light S^{ly} or SE^{ly} over Scotland, and the south of Norway.
 E^{ly} or NE^{ly} elsewhere, very strong in force over the Channel and southeast of England, with moderate gales at Hurst Castle and Yarmouth.

WEATHER

Cloudy or overcast generally with fog at Christiansund and Aberdeen, and passing showers at Dunk.
 Fine over Belgium, Germany, and the east and southeast of France.
 A little sleet fell in London yesterday.

SEA

Rather rough at the mouth of the Channel and also at Yarmouth, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be extending southwards again and the low pressure system over Spain is likely to move slowly in a northwesterly direction.

The low pressure area over the north of Sweden is travelling away in an easterly direction.

FORECASTS

For the 24 hours ending at NOON on 17th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	E ^{ly} and SE ^{ly} winds, light, fair generally, but mist or fog locally.
1	SCOTLAND EAST	-----D ^{ly} -----D ^{ly} -----D ^{ly} -----
2	ENGLAND N.E.	E ^{ly} and NE ^{ly} winds, fresh, ^{cloudy} possibly sleet showers.
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 2.
5	ENGLAND SOUTH	E ^{ly} winds, strong and gusty; cloudy, slight snow in places.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E ^{ly} winds, light, dull, misty.
7	ENGLAND N.W.	E ^{ly} winds, moderate or fresh; cloudy generally.
8	ENGLAND S.W.	Same as No 5
9	IRELAND NORTH	Same as No 7
10	IRELAND SOUTH	E ^{ly} winds, moderate; fair generally.

WARNINGS

The north cone is still flying in district 5 and part of 8.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.75	36	35	NNE 2	0	2	Holyhead ...	30.55	40	38	E 1/2 S 1/2	0	4
Sumburgh Head ...							Valencia ...						
Stornoway ...	30.65	43	43	2 0	0	3	Scilly ...						
Aberdeen ...							Dungeness ...	30.44	33	31	E 5	0	14
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	30.57	40	40	E 3	0	2	Jersey ...	30.33	35	31	E 1/2 S 1/2	0	5
Mullaghmore ...							Rochefort ...	30.11	34	30	E 7	0	2
Belmullet ...	30.52	40	38	ESE 3	0 9	*							

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

The reports for yesterday morning showed that a large high pressure area, in which the maximum readings exceeded 30.7 ins. still lay over western Russia, North Germany, the Baltic, North Sea and southern part of Scandinavia. To the northwards of this the readings decreased to 30.4 ins. and less, over Lapland, while to the south they fell to about 30.0 ins. over the Spanish Peninsula.

The barometer was rising over the Baltic falling slightly elsewhere — most over the southwestern countries. Freshening E. winds were consequently prevalent at all but the northern stations, accompanied by cold weather — with clear skies over Germany and central France, but by dull weather in the Channel and southern parts of the British Islands and slight showers at Jersey. In the North the winds were SW. to S.W.; these blew somewhat freshly in the northwest of Norway, with much milder air than was experienced over central and northern Europe.

The lowest 8 am temperatures reported were 1° F. at Kuopio, 3° at Moscow, 11° at Munich, 13° at Uleaborg, Nelsingfors, and Hermanstadt, 14° at Lemberg, 16° at Bracow, Riga, Hernösand and Kaparanda, 17° at Warsaw and Buda-Pesth, 18° at Munich, 19° at Vienna, 21° at Lyons, 22° at Berlin and Elbermont, 23° at Bresenow, 26° at Paris and 27° at Brussels; the highest were 56° at Algiers, 46° at Malta, 45° at San Fernando and Barcelona, 43° at Stornoway, 42° at Valencia, 41° at Sumburgh Head and Christiansund, 40° over several of the western part of the United Kingdom.

Little change occurred later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 8TH TO THE 14TH JANUARY 1888.

At the commencement of the week, now under notice, an anticyclone had advanced over the Bay of Biscay and southwestern Europe from the southwards, having maximum readings which exceeded 30.7 ins. while over the British Islands and their neighbourhood there were moderate gradients for cyclonic W. winds; these were consequently prevalent, with unusually mild weather, and occasional slight showers of rain in several places.

The high pressure area now moved slowly to the northward and northeastward, bringing with it dense wet fogs to the greater part of western Europe, and temperature, which, though lower than those experienced with W. winds, were nevertheless very high for anticyclonic condition in January. In those localities where fog was not prevalent the day-temperatures were very high.

By the 12th the central area of the system lay over England and the North of France; then, being joined by a "ridge" which extended southwestward from a new system over the North of Scandinavia, while temperature gave way in the South, E. breezes and colder weather began to set in over the southern countries, the zone of fogs moved northwards, and though the sky remained gloomily overcast at our southern stations the surface fogs disappeared.

At the close of the week the anticyclonic system covered the more northern regions only, the E. wind in the South was freshening; sharp frosts had become prevalent over all the inland parts of the Continent, and slight cold showers fell in places. In the North of our Islands the weather was dull and misty, but relatively mild.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for

Tuesday 17th January

1883.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.21	19	Z	0	0	29.88	-2.5	26	26	-5	N	4	6	*	32	18	-	
	Hernösand ...	30.49	21	Z	0	6	30.36	-1.6	33	32	0	N	2	0	*	36	19	-	
	Stockholm ...	30.61	25	NE	4	0	30.53	-1.8	25	24	-1	NW	2	0	*	28	21	-	
	Wishy ...	30.66	29	NW	6	0	30.56	-1.8	30	29	-2	NW	6	0	*	34	27	-	
	Bodö ...	30.28	35	W	6	m	30.10	-2.4	36	35	0	NW	7	0	+	36	32	-	
	Christiansund...	30.59	40	NW	3	0	30.52	-1.1	40	39	0	N	7	7	5	41	37	0.04	
	Skudenes ...	30.73	35	E	2	0	30.66	-0.6	34	34	-1	E	2	0	3	36	34	-	
	Christiania Fjord (Fjord)	30.70	30	NW	3	0	30.61	-1.1	24	24	-7	N	2	0	1	32	19	-	
	Skagen (The Scaw)	30.65	28	SW	1	0	30.63	-1.2	29	28	-1	SW	2	0	2	30	27	-	
	Faro ...	30.70	31	SE	3	0	30.69	-0.1	28	27	-3	SW	1	0	*	32	28	-	
BRITISH ISLANDS.	Sumburgh Head	30.66	35	Z	0	6	30.61	-0.4	36	36	0	Z	0	0	0	41	33	0.03	
	Sornoway ...	30.60	34	Z	0	6	30.58	-0.5	36	36	-2	Z	0	0	2	40	30	-	
	Wick ...	30.66	38	E	2	c	30.64	-0.3	37	36	-3	SW	1	c	0	42	35	0.02	
	Nairn ...	30.62	33	Z	0	c	30.62	-0.3	27	27	-3	Z	0	6	0	39	27	-	
	Aberdeen...	30.66	37	W	1	oph	30.66	-0.2	35	33	0	W	2	om	1	40	33	0.01	
	Leith ...	30.62	37	SE	1	0	30.64	+0.1	36	34	-2	SE	2	c	*	40	34	0.01	
	Shield ...	30.60	37	E	2	0	30.62	+0.3	39	37	+2	E	3	0	3	39	34	0.01	
	Spurn Head ...	30.55	38	ESE	5	c	30.59	+0.5	36	34	0	E	4	c	4	44	34	-	
	York ...	30.57	36	E	1	q	30.61	+0.3	36	34	+1	E	1	og	*	38	34	-	
	Loughborough	30.53	31	ESE	3	0	30.57	+0.4	32	30	0	E	2	og	*	33	31	-	
GERMANY.	Ardrossan ...	30.59	38	ESE	3	0	30.62	+0.1	32	31	-6	ESE	1	bm	1	40	31	-	
	Malin Head ...	30.55	38	SE	3	om	30.55	0.0	37	36	-3	SE	4	om	3	40	35	-	
	Mullaghmore ...	30.51	39	E	5	om	30.48	-0.7	37	35	-2	E	5	b	3	40	37	-	
	Belmullet ...	30.51	39	E	2	0	30.49	-0.7	36	34	-3	E	2	b	*	40	36	-	
	Donaghadee ...	30.54	39	E	4	0	30.56	-0.2	38	36	-2	ESE	5	0	3	40	38	-	
	Barrow-in-Furness	30.53	36	ESE	2	0	30.55	+0.2	35	33	-1	ESE	4	0	*	37	33	-	
	Liverpool (Bidston)	30.53	34	E	3	0	30.56	+0.3	33	31	-2	ESE	3	0	3	35	33	-	
	Holyhead ...	30.49	33	E	5	b	30.48	-0.3	32	32	-5	ESE	5	b	4	37	32	-	
	Parsonstown ...	30.47	36	Z	0	0	30.44	-0.7	32	31	-2	E	1	b	*	39	32	-	
	Valencia ...	30.40	36	NE	2	bm	30.30	-1.6	37	35	+5	NNE	5	cm	4	41	31	-	
FRANCE & NETHERLANDS.	Roche's Point...	30.39	39	E	4	0	30.34	-1.1	40	39	+5	E	6	p	5	40	34	0.08	
	Pembroke ...	30.40	32	E	4	c	30.39	-0.5	37	35	+6	ESE	5	c	3	37	30	-	
	Scilly ...	30.24	38	ESE	7	op	30.22	-0.8	46	45	+9	SE	7	c/p	6	46	35	0.16	
	Prawle Point ...	30.31	37	ESE	6	0	30.35	+0.2	43	42	+8	ESE	7	cm	6	44	33	0.01	
	Jersey ...	30.29	36	ESE	3	cm	30.38	+0.9	38	36	+4	ESE	3	cm	3	39	33	-	
	Hurst Castle ...	30.39	34	ESE	7	0	30.45	+0.6	35	34	+1	ESE	7	bm	4	37	32	-	
	Dungeness ...	30.41	34	E	4	c	30.49	+0.9	33	33	+1	ESE	4	b	3	35	31	-	
	London ...	30.47	33	ESE	4	0	30.53	+0.9	34	33	+1	ESE	3	0	*	34	32	-	
	Oxford ...	30.49	32	ESE	2	0	30.55	+0.7	31	30	+1	ESE	3	0	*	33	30	-	
	Cambridge ...	30.52	32	ESE	1	0	30.56	+0.6	33	32	+1	ESE	1	0	*	34	30	-	
PENIN. ISLANDS.	Yarmouth ...	30.51	32	E	5	c	30.55	+0.4	34	32	+1	E	4	c	4	34	31	-	
	Cuxhaven ...	30.69	28	ESE	3	c	30.72	+0.5	27	26	-1	ESE	3	f	*	29	26	-	
	Berlin ...	30.71	27	ESE	4	0	30.73	+0.6	23	23	-2	SE	2	0	*	28	21	-	
	Wiesbaden ...	*	*	*	*	*	30.60	+1.2	23	22	-1	NE	1	b	*	30	23	-	
	Munich ...	30.48	18	Z	0	b	30.53	+1.3	12	12	-5	SE	4	b	*	25	12	-	
	The Helder ...	30.53	26	E	3	c	30.62	+0.6	25	24	-1	E	1	f	2	28	25	-	
	Brussels ...	*	*	*	*	*	30.56	+1.1	22	22	-3	E	1	b	*	33	22	-	
	Cape Gris Nez...	30.41	28	E	3	b	30.47	+0.8	24	24	-1	E	4	m	2	32	23	-	
	Paris ...	30.39	34	E	3	0	30.47	+1.3	24	23	-4	NNE	1	b	*	39	23	-	
	Brest ...	30.22	43	E	5	0	30.24	-0.5	40	37	+11	E	5	0	5	45	28	-	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts

WEATHER CHARTS

for 8 a.m. on Tuesday, 17th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

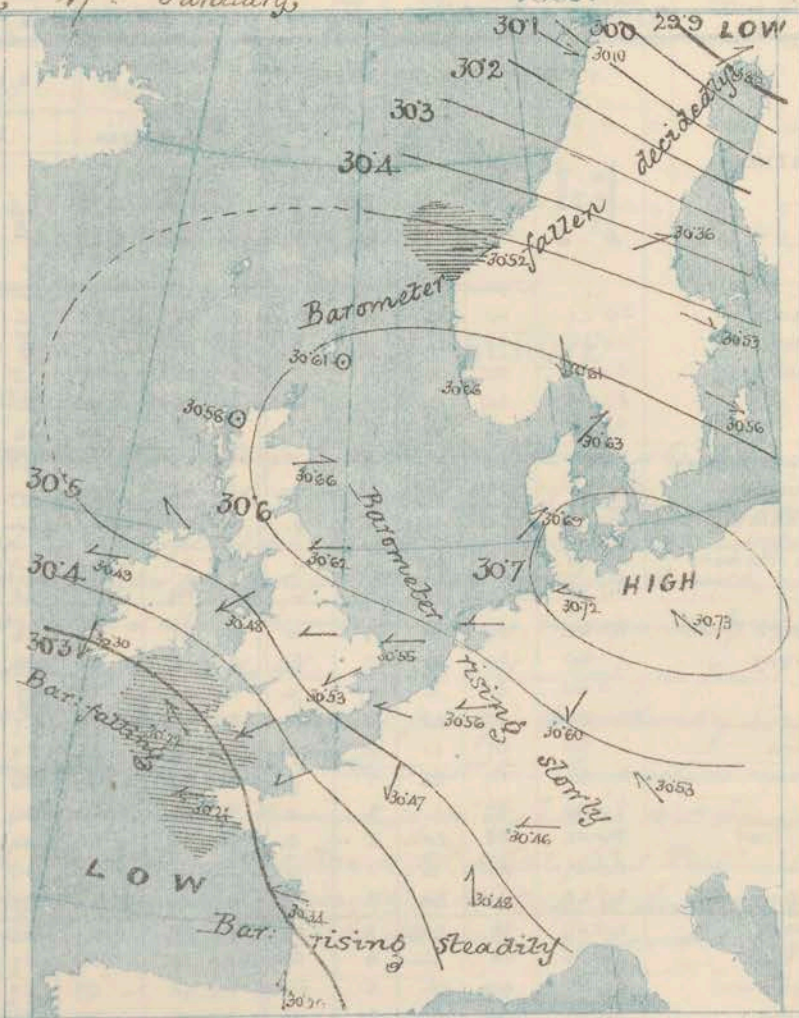
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○ — dead calm.

Sea Disturbance — where considerable, is shown thus:
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.993
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

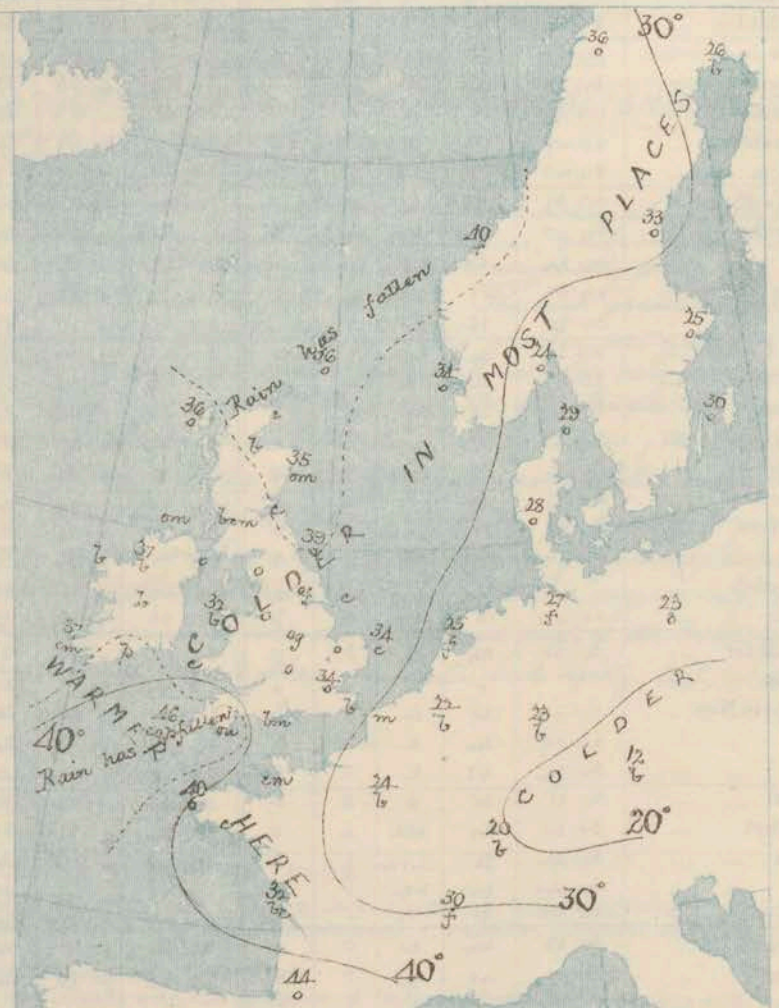
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.06
Stornoway	43.0	34.2	39.0	37.5	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.0	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.58
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	5.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.03
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	48.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	53.7	36.6	39.4	38.2	2.08
LONDON	44.5	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.6	36.5	2.23
Cambridge	48.9	32.6	36.5	35.2	1.57
Yarmouth	41.0	34.5	37.7	36.0	2.06

Note — The Temperature means are for the 15 years 1871–1885, the Rainfall means are mainly those for the 20 years 1866–85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins: and more over North Germany, and 30.6 ins: and more over the North Sea and the greater part of Scotland.
 Lowest, 29.17 ins: at Scilly and 30.24 ins: at Brest — 29.9 ins: and less over Lapland.
 Gradients, moderate for S.E. and E. winds over France, England and Ireland, rather steep for W. winds over the northern part of Scandinavia.
 Barometer rising at our eastern and northern stations and in France, falling elsewhere — most in the far north.

TEMPERATURE

Highest, 46° at Scilly, 44° at Biarritz, 40° at Brest, Rocher Point, and Christiansund.
 Lowest, 12° at Munich, 20° at Belfort, 22° at Brussels, 23° at Berlin, 24° at Paris and Laender, 25° at Stockholm, 26° at Haparanda.
 It has risen considerably in the southwest since yesterday, but again fallen over Central Europe.

WIND

E^{ly} (SE to NE) over Germany, France, England and Ireland, blowing a moderate gale in Devon and Cornwall — moderate to fresh elsewhere.
 Calms and variable airs prevail in Scotland and the Shetlands.
 W^{ly} winds in the north of Scandinavia — blowing a moderate gale in places.

WEATHER

Foggy in Holland, fine and bright in many parts of Germany, France, Ireland and Scotland.
 Showery on our southwest coasts, dull and rainy in the northwest of Norway.
 In London it is dull, with frack-stratus clouds moving briskly from the eastward.

SEA

Rough on our southwest coasts, rather so off the north west of Norway, moderate at most of our western stations and at Yarmouth, slight or smooth elsewhere. Very smooth on the Scotch coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

1. The barometric fall proceeds from two distinct centres —

One a large depression in the far north which is moving southeastwards towards Russia.

The other a small system off the south of Ireland — apparently moving northwards.

Neither of these seems likely to cause much further change of weather in our Islands.

2. At Lisbon, however, the barometer has begun to fall a little and the wind there has shifted to the southward, with mild, rainy weather.

This appears to indicate the advance of some further disturbance towards the southwestern parts of our area, but of its size or intensity nothing is known at present.

FORECASTS

for the 24 hours ending at NOON on 18th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	Calms and variable airs; fine, dry, cold.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	N ^{ly} and E ^{ly} breezes, moderate to fresh; dry, cold.
3	ENGLAND EAST	E ^{ly} winds, fresh; fair, cold.
4	MIDLAND COUNTIES	Same as N° 2
5	ENGLAND SOUTH	E ^{ly} winds, fresh; fair, dry, cold.


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	Same as N° 0
7	ENGLAND N.W.	Same as N° 2
8	ENGLAND S.W.	E ^{ly} and S ^{ly} winds, strong to moderate; some cold showers.
9	IRELAND NORTH	E ^{ly} winds, fresh or strong; fair as a whole, cold.
10	IRELAND SOUTH	-----D°-----D°-----D°-----

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 ebb 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 ebb towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudenes	30.73	35	33	SSR 2	0	3	Holyhead	30.49	36	33	EHL 5	bc	4
Sumburgh Head	30.60	40	39	70 0	c	0	Valencia	30.42	40	36	EHL 2	bcw	2
Stormway	30.61	40	39	W 3	b	3	Scilly	30.25	38	36	EHL 7	opd	5
Aberdeen	30.65	39	38	SSR 1	cm	1	Dungeness	30.40	35	34	E 5	e	4
Shields	30.58	38	35	E 3	0	3	London	30.46	34	33	E 4	og	*
Ardrossan	30.58	40	38	EHL 2	0	1	Yarmouth	30.50	32	31	EHL 5	e	5
Main Head	30.51	39	38	SE 3	0	2	Jersey	30.27	36	34	EHL 4	0	3
Mullaghmore	30.53	40	37	E 4	cm	3	Rocheport	30.19	36	35	SSR 4	0	2
Belmullet	30.52	40	37	E 2	0	*							

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

The reports for yesterday morning showed that a large anticyclonic system in which readings exceeded 30.7 ins. was lying over the Baltic, the south of Scandinavia and the north of Denmark, while areas of relatively low pressure with readings below 30.1 ins. were found respectively, over Iceland and the Iberian Peninsula. With this distribution the wind was W^{ly} over Northern Europe, and variable at some of the more Central stations, but chiefly E^{ly} elsewhere; in the south and southeast of England the E^{ly} wind blew strongly, but elsewhere it was light to fresh in force. The weather was generally fair, but a good deal of cloud prevailed locally, and rain was falling over Cap Bear, Perpignan and Cette. Temperature had risen a little over Scandinavia and Russia and also in Spain, but fallen elsewhere, readings ranged from 50° and upwards in Algeria and 45° and upwards over Spain and the extreme south of France to 15° or less over Eastern Austria and to 5° or less over Central Russia. The highest individual readings were 52° at Algiers, 50° at San Fernando, 48° at Cap Bear, 46° at Barcelona, 45° at Sanguinaire and Corunna, and 44° at Perpignan; the lowest were 5° at Moscow, 11° at Hermannstadt, 14° at Vienna, 16° at Neufahrwasser, 17° at Munich, 19° at Prague and Cracow, and 21° at Marmel, Breslau and Lemberg.

In the course of the day, the low pressure system over Spain advanced slowly in a northwesterly direction and the barometer fell slightly on our west and southwest coasts. No important change was observed, however, in the winds or weather.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 18th JANUARY

1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.85	15	NW	2	b	29.87	- .01	15	12	- 11	NW	2	b	*	28	14	-
	Hernösand ...	30.17	34	SW	2	b	30.14	- .22	28	25	- 5	NW	4	b	*	37	16	-
	Stockholm ...	30.36	26	N	4	o	30.15	- .38	28	27	+ 3	NNW	6	b	*	28	21	-
	Wishby ...	30.42	32	NN	6	o	30.20	- .36	33	32	+ 3	NN	6	b	*	34	27	-
	Bodö ...	30.06	31	WNW	6	c	30.20	+ .10	27	24	- 9	NW	6	c	3	36	23	-
	Christiansund...	30.43	39	WSW	6	f	30.57	+ .05	36	32	- 4	NNW	4	c	4	41	34	0.67
	Skudesnaes ...	30.59	34	NNW	2	b	30.54	- .12	36	?	+ 2	N	1	f	3	36	34	-
	Christiania Fjord (Fjerder)	30.47	29	NNW	2	o	30.36	- .25	24	23	0	Z	0	b	0	26	18	-
	Skagen (The Scaw)	30.44	33	NW	3	b	30.34	- .29	32	31	+ 3	N	1	b	2	36	27	-
	Fanö ...	30.62	30	W	2	o	30.46	- .23	35	35	+ 7	W	4	c	*	36	27	-
BRITISH ISLANDS.	Sumburgh Head	30.65	38	W	1	c	30.64	+ .03	37	36	+ 1	Z	0	c	0	40	34	-
	Stornoway ...	30.61	33	NW	2	b	30.63	+ .05	32	32	- 4	Z	0	b	2	43	27	-
	Wick ...	30.68	30	Z	0	b	30.69	+ .05	27	27	- 10	NNW	1	o	0	41	23	-
	Nairn ...	30.65	27	Z	0	b	30.65	+ .03	20	19	- 7	Z	0	b	0	37	19	-
	Aberdeen...	30.68	35	SSW	1	d	30.69	+ .03	33	32	- 2	W	1	m	1	38	31	-
	Leith ...	30.65	36	SE	1	c	30.65	+ .01	37	35	+ 1	SE	2	c	*	38	34	-
	Shields ...	30.63	38	ESE	3	c	30.66	+ .04	38	36	- 1	ESE	3	o	3	39	36	-
	Spurn Head ...	30.61	37	E	3	c	30.63	+ .04	38	35	+ 2	E	4	c	4	38	34	-
	York ...	30.62	35	E	1	o	30.67	+ .06	36	34	0	E	2	o	*	37	34	-
	Loughborough	30.59	33	ENE	1	o	30.62	+ .05	33	32	+ 1	ENE	3	og	*	33	31	-
GERMANY.	Ardrossan ...	30.61	37	ENE	1	om	30.63	+ .01	32	31	0	ENE	1	b	2	38	31	-
	Malin Head ...	30.50	37	SE	4	bcm	30.50	+ .01	36	36	- 1	SE	4	om	3	38	35	-
	Mullaghmore ...	30.50	38	E	5	cm	30.53	+ .05	36	35	- 1	E	6	b	4	40	35	-
	Belmullet ...	30.46	39	ESE	5	b	30.50	+ .01	35	34	- 1	E	2	b	*	40	35	-
	Donaghadee ...	30.55	39	E	5	o	30.59	+ .03	38	36	0	E	4	c	3	40	37	-
	Barrow-in-Furness	30.47	34	E	3	b	30.60	+ .05	32	31	- 3	NE	3	b	*	36	31	-
	Liverpool (Bidston)	30.58	32	SE	2	o	30.62	+ .06	29	29	- 4	ESE	2	b	2	39	29	-
	Holyhead ...	30.50	34	ENE	4	b	30.53	+ .05	29	29	- 3	E	1	b	2	37	29	-
	Parsonstown ...	30.45	38	E	2	c	30.50	+ .06	35	34	+ 3	Z	0	b	*	40	31	-
	Valencia ...	30.27	44	ESE	4	omp	30.35	+ .05	44	41	+ 7	E	6	o	6	46	27	0.08
FRANCE & NETHERLANDS.	Roche's Point...	30.34	44	ESE	6	o	30.41	+ .07	41	39	+ 1	ESE	6	o	5	44	37	0.45
	Pembroke ...	30.44	39	ESE	5	c	30.49	+ .10	33	31	- 4	E	3	b	2	39	32	-
	Scilly ...	30.26	47	ESE	6	o	30.30	+ .08	46	44	0	E	7	c	6	47	43	0.01
	Prawle Point ...	30.42	41	ENE	6	o	30.45	+ .10	37	36	- 6	NE	5	og	4	44	33	-
	Jersey ...	30.41	39	ENE	3	b	30.43	+ .05	35	32	- 3	ENE	3	b	3	44	33	-
	Hurst Castle ...	30.48	35	ENE	6	m	30.51	+ .06	31	31	- 4	NE	4	b	3	38	28	-
	Dungeness ...	30.49	37	E	4	b	30.52	+ .03	32	32	- 1	E	5	m	4	37	31	-
	London ...	30.55	34	E	2	b	30.57	+ .04	33	32	- 1	ENE	2	o	*	30	30	-
	Oxford ...	30.57	28	ENE	2	b	30.61	+ .06	30	29	- 1	NE	2	o	*	33	27	-
	Cambridge ...	30.58	30	E	1	b	30.63	+ .07	32	31	- 1	ENE	1	o	*	36	27	-
PENINSULA.	Yarmouth ...	30.58	35	E	4	c	30.61	+ .06	33	32	- 1	E	4	c	4	36	31	-
	Cuxhaven ...	30.71	27	ESE	2	o	30.60	- .12	29	28	+ 2	WSW	3	o	*	29	26	-
	Berlin ...	30.67	23	SW	2	o	30.54	- .19	21	21	- 2	W	3	a	*	27	19	-
	Wiesbaden ...	*	*	*	*	*	30.58	- .02	19	19	- 4	E	1	f	*	34	13	-
	Munich ...	30.52	18	Z	0	b	30.49	- .04	18	18	+ 6	SE	3	f	*	23	16	-
	The Helder ...	30.62	25	ENE	3	f	30.62	00	28	28	+ 3	ENE	1	f	1	28	25	-
	Brussels ...	*	*	*	*	*	30.58	+ .02	20	19	- 2	ENE	1	c	*	34	20	-
	Cape Gris Nez...	30.51	29	NE	4	m	30.53	+ .06	23	23	- 1	E	4	f	3	34	23	-
	Paris ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Brest ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PENINSULA.	Lorient ...	30.30	43	SE	5	b	30.34	+ .08	36	34	- 3	E	5	b	2	?	34	-
	Rochefort ...	30.35	43	ESE	4	b	30.36	+ .02	34	?	+ 2	E	4	b	2	30	30	-
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lyons ...	30.49	27	WSW	1	f	30.49	+ .01	26	26	- 4	ENE	1	f	*	32	24	-
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PENINSULA.	Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Biarritz ...	30.41	46	ESE	4	o	30.21	- .05	37	35	- 7	ESE	5	o	2	30	34	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PENINSULA.	Lisbon ...	30.20	36	Z	0	o	30.28	+ .17	53	53	+ 1	NNE	3	f	?	57	52	0.20

For Explanation of Columns, see p. 4.

Note. The reports from Paris, Brest, Belfort, Nice, and Perpignan have not yet arrived, Noon.

WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 18th January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ — forces above 10; → — forces 8 to 10;
→ — forces 5 to 7; → — forces 1 to 4;
○ — dead calm.

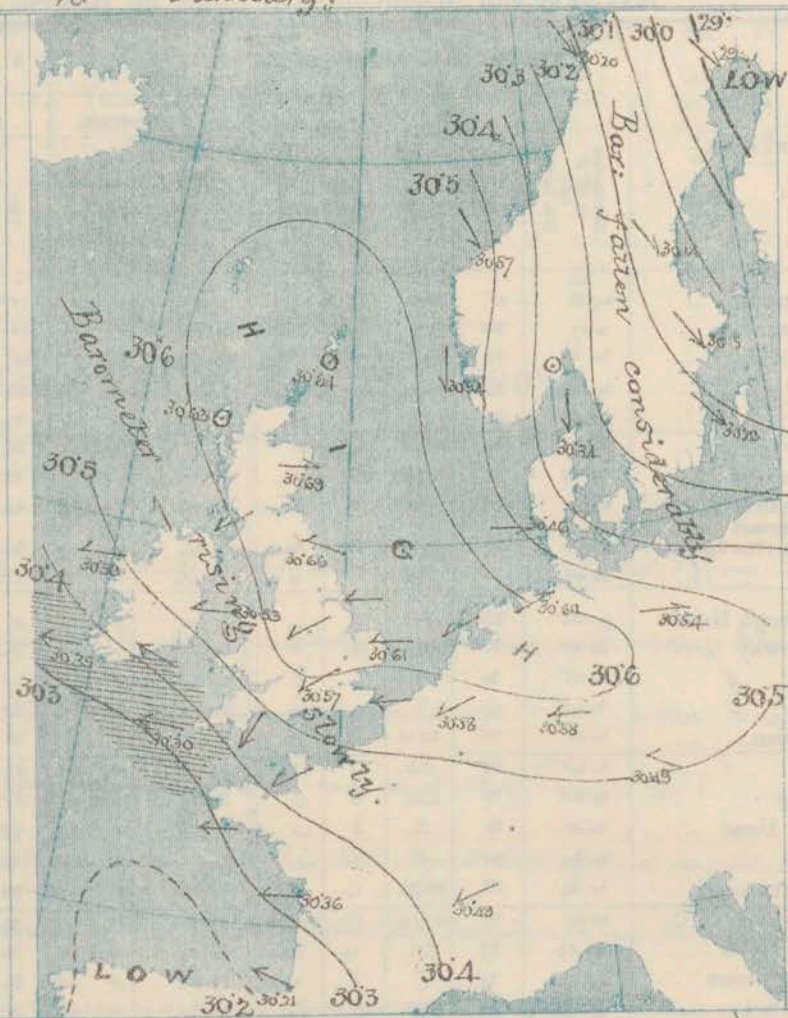
Sea Disturbance — where considerable is shown thus.

■ — Rough; ■ — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none.

Falls of 0.5 in. or more, are quoted in figures.

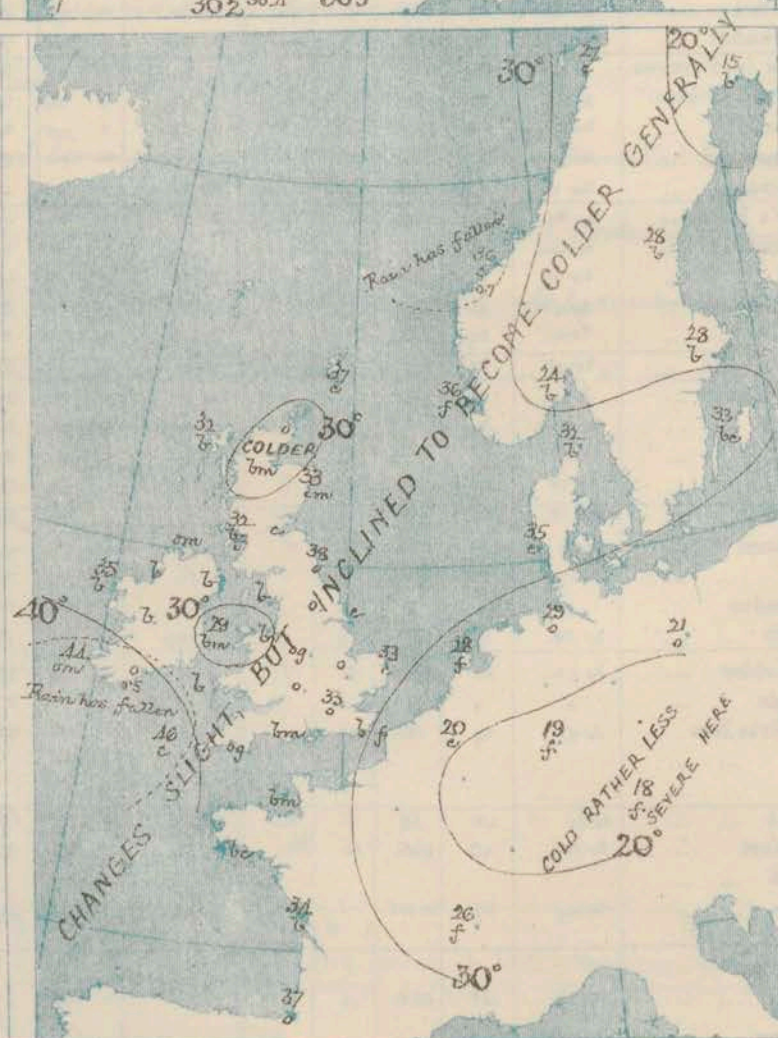
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.68
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.84
Leith	44.6	33.7	38.2	36.8	1.56
Shields	43.1	34.7	38.0	36.7	1.79
York	42.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	1.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.02
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.6 ins. and more, in an anticyclone lying over Scotland, the North and East of England, and the western and southern parts of the North Sea—30.5 ins. and more over North Germany.
Lowest 29.7 ins. and less over Ireland and northern Russia; 30.2 ins. and less over Spain.
Gradients, almost nil near the centre of the anticyclone—moderate for S.E. and E. winds in the West and South, and for N.W. winds over Scandinavia.
Barometer rising in our Islands, falling over the Baltic.

TEMPERATURE

Highest 53° at Lisbon, 46° at Lillo, 44° at Valencia, 41° at Roches Point.
Lowest 15° at Haparanda, 19° at Wiesbaden, 20° at Brussels and Haarlem, 21° at Berlin, 26° at Lyons, 28° at Harbin and Stockholm, 30° at Oxford.
It has fallen over France and the South of England since yesterday. Frost prevailed in London early this morning.

WIND

N.W. moderate to strong, over Scandinavia, W. in Denmark.
Calm and variable in Scotland—E. or N.E. over Ireland, England, France and the Bay of Biscay.
It has lulled considerably on our southwest coast, but is still moderate to fresh at most of our western and southern stations.

WEATHER

Clear in Sweden, and also at many of the stations in the British Islands and France, cloudy elsewhere; hazy in the East of Scotland, foggy in the Netherlands.
A great deal of rain fell yesterday in the southeast of Ireland, and the northwest of Norway.

SEA

Rough in the southwest, moderate in the Channel and on our East coast, as well as at Christiansund.
Slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression over Russia passes off the barometer will probably rise again over the North Sea, and the anticyclone extend over nearly the whole of north-west Europe. Temperature will probably fall decidedly as night comes on, and frost be general over the inland parts of our Islands.

FORECASTS

For the 24 hours ending at NOON on 19 January 1888.

DISTRICTS.

FORECASTS.

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

Calm and variable airs; fine, cold, hazy.
.....D.....D.....D.....
E^{ly} winds, moderate to light; fair, cold, fogs locally.
.....D.....D.....D.....
.....D.....D.....D.....
E^{ly} winds, moderate; fair, cold. Frost at night.

DISTRICTS.

FORECASTS.

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

Same as N^{os} 0 and 1.
Same as N^{os} 2 to 4.
N.E. and E^{ly} breezes, fresh; fair, cold.
S.E. and E^{ly} breezes, fresh; fair, cold.
.....D.....D.....D.....

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudeanaes ...	30.62	36	36	NW	1	rf	2	Holyhead ...	30.49	37	35	ENE	4	b	4
Sumburgh Head ...	30.61	40	38	W	1	o	0	Valencia ...	30.22	43	41	E	7	o	6
Stornoway ...	30.60	43	41	W	2	bc	2	Scilly ...	30.25	47	46	ESE	6	o	5
Aberdeen ...	30.67	35	35	SSW	1	c	1	Dungeness ...	30.50	37	37	ESE	5	b	4
Shields ...	30.63	39	36	ESE	3	a	3	London ...	30.55	36	34	ESE	3	cm	?
Ardrossan ...	30.61	37	35	ENE	1	c	1	Yarmouth ...	30.56	36	34	E	4	c	4
Malin Head ...	?	38	37	SE	4	o	3	Jersey ...	30.38	42	40	ENE	3	b	3
Mullaghmore ...	30.48	39	37	E	6	bc	5	Rocheport ...	30.34	49	45	ESE	5	c	2
Belmullet ...	30.44	39	37	E	2	b	*								

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

The reports for yesterday morning showed that while the highest pressures of all (30.7 ins. and upwards) were reported over North Germany, a large anticyclone existed over the whole of Central and Northwestern Europe. The lowest pressures, 29.9 ins. and less, were found in a depression which was passing eastwards across Lapland, but relatively low readings (30.2 ins. and less) were also reported over the Iberian Peninsula, and off our southwest coast. The wind was moderate to strong from the Wnd over northern Europe and variable at the more Central stations, but elsewhere it varied between NE and SE; over the English Channel the E wind blew with the force of a moderate gale. Fair though somewhat cloudy weather was reported in most places, but rain was falling at Christiansund, and also at Lisbon, Sanguinaire and Malta. Temperature had risen a little over the greater part of France, Spain and Algeria as well as over Central Russia, but fallen elsewhere; readings ranged from between 45° and 50° over Spain, the North of Algeria, and the South of Italy, to 15° and less, over northern and also over southern Russia. The highest individual readings were 54° at Algiers, 52° at Lisbon, 49° at Oran, Coruna, Barcelona and Malta, 48° at Bilbao, and 47° at Sfax; the lowest were 10° at Kiev, 12° at Charkov, 14° at Archangel, Warsaw, Odessa and Hermanstadt, 15° at Lemberg and 17° at Moscow.

In the course of the day the depression over Lapland continued to move eastwards, while the low pressure system off the Irish coast advanced slowly in a northwesterly direction. Very little change was observed however either in the winds or weather over the United Kingdom.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday 19th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.94	13	W	2	0	29.19	-.68	25	25	+ 10	W	4	0	*	?	14	0.24		
Hernösand ...	30.26	23	N	2	6	29.75	-.39	33	31	+ 5	SW	2	0	*	36	?	-		
Stockholm ...	30.36	22	NW	2	6	30.14	-.01	23	21	- 5	W	4	0	*	30	21	-		
Wisby ...	30.32	30	N	8	0	30.25	+ .05	31	30	- 2	WNW	6	0	*	36	23	-		
Bodö ...	30.03	30	W	6	8	29.53	-.67	36	33	+ 9	WNW	7	0	6	?	27	-		
Christiansund...	30.45	36	WNW	8	0	30.22	-.35	40	39	+ 4	W	9	0	6	?	32	0.04		
Skudesnaes ...	30.59	34	Z	0	6	30.49	-.05	30	30	- 6	Z	0	0	2	?	?	-		
Christiania Fjord (Fjorder)	30.53	27	NW	2	6	30.26	-.10	31	29	+ 7	W	2	6	1	?	23	-		
Skagen (The Scaw)	30.55	30	Z	0	6	30.30	-.04	36	35	+ 4	W	5	6	4	36	25	-		
Fanö ...	30.59	30	S	2	6	30.56	+ .10	30	29	- 5	SW	2	6	*	37	25	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.64	39	Z	0	0	30.48	-.16	37	36	0	Z	0	0	0	44	34	-		
Stornoway ...	30.60	31	Z	0	6	30.50	-.13	38	38	+ 6	SW	3	0	3	39	27	-		
Wick ...	30.63	35	Z	0	6	30.51	-.18	25	24	- 2	Z	0	6	0	36	23	-		
Nairn ...	30.62	25	SW	1	6	30.53	-.12	20	19	0	Z	0	6	1	30	16	-		
Aberdeen...	30.67	34	SSW	1	6	30.55	-.14	26	26	- 7	W	1	6	1	36	25	-		
Leith ...	30.66	35	SE	1	6	30.60	-.05	27	27	- 10	W	1	6	*	39	25	-		
Shields ...	30.68	37	SE	2	0	30.60	-.06	31	30	- 7	SSW	3	0	2	38	30	-		
Spurn Head ...	30.68	36	E	4	0	30.66	+ .03	36	34	- 2	SW	1	6	2	39	34	-		
York ...	30.69	36	E	1	0	30.67	00	33	31	- 3	S	2	0	*	38	32	-		
Loughborough	30.68	33	E	2	0	30.68	+ .06	31	30	- 2	SE	2	0	g	34	31	-		
GERMANY.																			
Ardrossan ...	30.64	39	ENE	1	0	30.60	-.03	27	27	- 5	ENE	1	0	2	39	26	-		
Malin Head ...	30.56	35	SE	4	6	30.51	-.05	33	33	- 3	SSE	3	6	2	38	32	-		
Mullaghmore ...	30.54	37	E	4	6	30.50	-.03	36	34	0	SSE	4	0	2	38	33	-		
Belmullet ...	30.50	35	SE	4	6	30.44	-.06	32	31	- 3	SE	3	6	*	38	30	-		
Donaghadee ...	30.62	39	ESE	3	0	30.58	-.01	38	36	0	ESE	4	0	3	40	37	-		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	30.63	34	NE	2	6	30.61	+ .01	31	29	- 1	ENE	4	0	*	38	29	-		
Liverpool (Bidston)	30.66	34	ESE	2	2	30.63	+ .01	29	28	0	SE	3	6	3	35	29	-		
Holyhead ...	30.59	33	ENE	4	6	30.54	+ .06	29	28	0	Z	0	m	0	37	28	-		
Parsonstown ...	30.54	36	Z	0	6	30.51	+ .01	36	35	+ 1	SE	1	0	*	41	27	0.02		
Valencia ...	30.41	44	E	5	6	30.39	+ .04	46	44	+ 2	ESE	4	0	4	46	40	0.01		
Roche's Point...	30.48	42	ESE	6	0	30.46	+ .05	44	42	+ 3	SE	6	0	5	44	40	-		
Pembroke ...	30.54	33	ESE	4	6	30.53	+ .04	35	34	+ 2	ESE	5	6	3	37	31	-		
Scilly ...	30.38	45	ESE	7	0	30.44	+ .14	47	45	+ 1	ESE	6	0	6	47	40	-		
Prawle Point ...	30.51	39	ENE	5	0	30.57	+ .12	40	39	+ 3	ENE	4	6	4	40	34	-		
Jersey ...	30.51	37	ENE	2	6	30.58	+ .15	33	31	- 2	ENE	3	6	3	41	31	-		
Hurst Castle ...	30.58	35	ENE	5	6	30.62	+ .11	36	36	+ 5	E	4	0	1	36	29	-		
Dungeness ...	30.57	34	E	5	0	30.64	+ .12	34	33	+ 2	ESE	4	0	4	35	31	-		
London ...	30.65	33	ENE	3	0	30.65	+ .08	36	35	+ 3	ESE	1	0	*	36	32	-		
Oxford ...	30.67	31	ENE	4	0	30.67	+ .06	33	31	+ 3	ESE	1	0	g	33	30	-		
Cambridge ...	30.70	32	Z	0	0	30.68	+ .05	32	31	0	Z	0	0	*	34	27	-		
Yarmouth ...	30.66	35	ENE	3	0	30.65	+ .04	34	34	+ 1	WNW	1	0	3	35	32	0.03		
Cuxhaven ...	30.51	32	N	3	8	30.63	+ .03	29	29	0	SW	2	0	*	34	28	-		
Berlin ...	30.45	29	W	3	0	30.60	+ .06	22	22	+ 1	WNW	3	0	*	30	21	-		
Wiesbaden ...	*	*	*	*	*	30.65	+ .07	22	27	+ 9	E	1	0	*	28	-	-		
Munich ...	30.52	18	SE	1	0	30.60	+ .11	17	17	- 1	SE	3	0	*	21	16	-		
FRANCE & NETHERLANDS.																			
The Helder ...	30.63	35	NW	1	0	30.63	+ .01	35	34	+ 7	N	1	0	1	37	28	-		
Brussels ...	*	*	*	*	*	30.67	+ .09	29	29	+ 9	Z	0	0	*	30	?	0.04		
Cape Gris Nez...	30.57	26	E	5	6	30.63	+ .10	31	31	+ 8	SE	3	0	2	?	23	-		
Paris ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Brest ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Lorient ...	30.43	41	E	3	6	30.49	+ .15	34	32	- 2	E	5	6	2	?	32	-		
Rochefort ...	30.44	42	ESE	5	6	30.53	+ .17	31	30	- 3	ENE	5	6	2	52	25	-		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Lyons ...	30.52	27	N	1	6	30.60	+ .11	24	24	- 2	N	1	0	*	30	24	-		
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Biarritz ...	30.36	46	E	4	0	30.45	+ .24	40	38	+ 3	SE	3	0	1	48	37	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Lisbon ...	30.38	57	SW	1	6	30.43	+ .15	52	52	- 1	ENE	4	0	5	57	52	-		

For Explanation of Columns, see p. 4.

WEATHER

CHARTS

for 8 a.m. on

Thursday, 19th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to 4;
 ○ = dead calm.

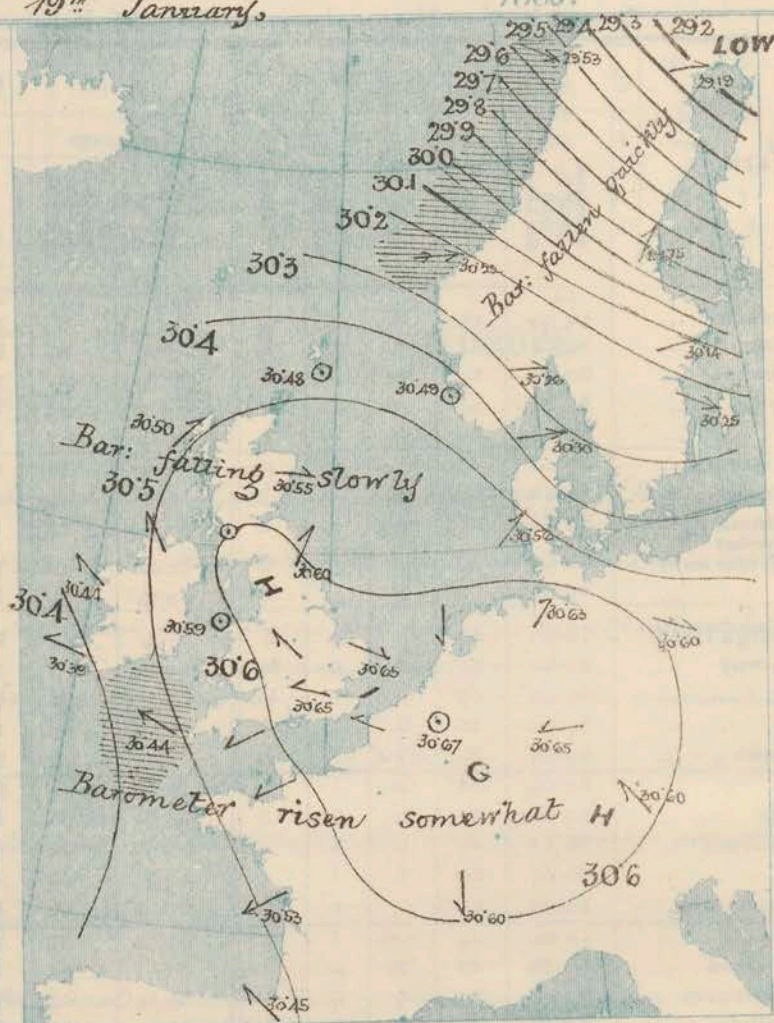
Sea Disturbance — where considerable is shown thus:
 — = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.

During the 15 Years 1871 — 1885.

STATIONS	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.637
Wick	29.725
Nairn	29.753
Aberdeen	29.700
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.937
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.982
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

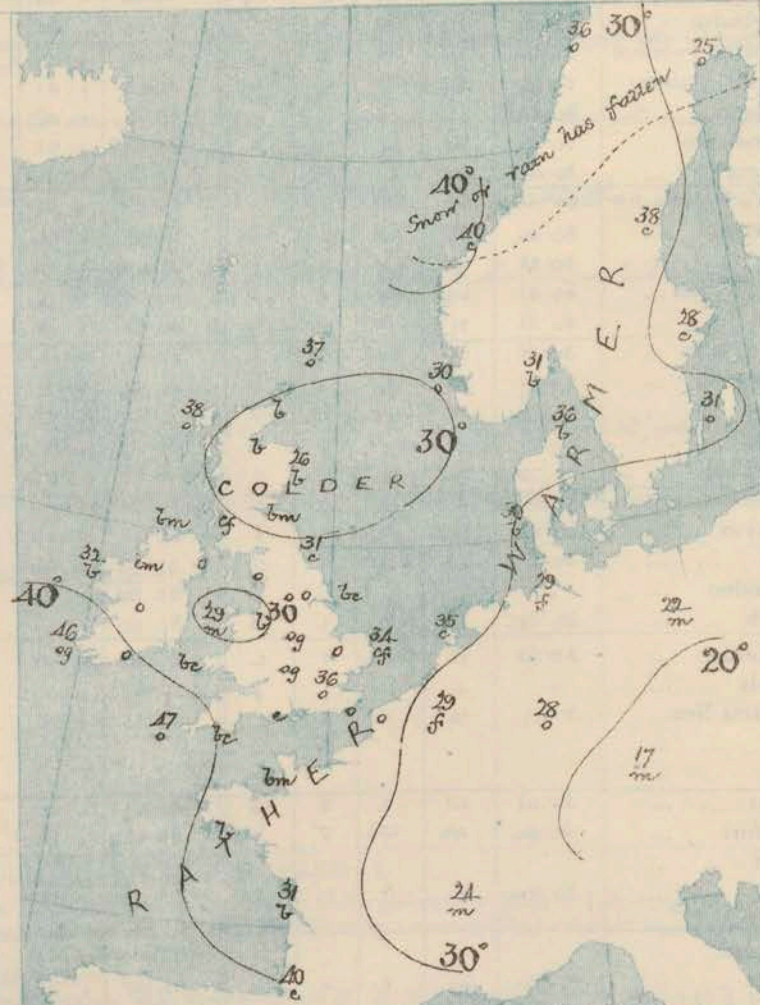
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL
for the month of January.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.86
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.96
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.52
Donaghadee	44.4	36.3	39.9	39.1	5.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

Note — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.6 ins. and up in an anticyclone lying over Germany, the Netherlands, the East of France and the greater part of England. Lowest, 29.2 ins. and less, in a depression lying over Lapland. Gradient steep over the north of Scandinavia, very slight elsewhere. Barometer falling quickly over the N. of Scandinavia, and slightly in our Islands but rising over Germany and France.
TEMPERATURE	Highest, 52° at Lisbon, 47° at Sicily, 46° at Valencia, 44° at Rocher's Pt., and 40° at Christianaund, Thawel Point and Berwick. Lowest, 17° at Munich, 20° at Naim, 22° at Berlin, 23° at Stockholm, 24° at Lyons, and 25° at Mirk. Sharp frost occurred last night in Scotland; at Naim the thermometer fell to 16°.
WIND	Moderate E ^{ly} over the Channel and Bay of Biscay, fresh SE ^{ly} on our western coasts. Light W ^{ly} or SW ^{ly} in the East of England; strong to a gale from N. in the north of Scandinavia. Variable over Germany, the Netherlands, and the East of France.
WEATHER	Fine in Denmark, France and the Eastern parts of Great Britain. Cloudy or overcast elsewhere, with fog in Belgium and North Germany.
SEA	Rough off the west of Norway; and also at Sicily, rather rough at Rocher's Point, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT


The anticyclone is now moving southwards, and although the depression over the north of Scandinavia will probably travel away in an easterly direction other disturbances are likely to appear in the north shortly.


Freshening SW^{ly} winds are therefore probable on our extreme northern coasts but in the south no immediate change is anticipated.

FORECASTS

for the 24 hours ending at NOON on 20th JANUARY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SW ^{ly} winds, freshening; dull, some rain.	6 { SCOTLAND WEST	SE ^{ly} winds, moderate; fair generally.
1 { SCOTLAND EAST	W ^{ly} to SW ^{ly} winds, light; fine generally.	7 { ENGLAND N. W.	----- D° ----- D° ----- D° -----
2 { ENGLAND N. E.	SE ^{ly} winds, light; fair generally.	8 { ENGLAND S. W.	SE ^{ly} winds, fresh or strong; fair generally.
3 { ENGLAND EAST	Same as N° 5	9 { IRELAND NORTH	SE ^{ly} and S ^{ly} winds, fresh; fair generally.
4 { MIDLAND COUNTIES	Same as N° 5	10 { IRELAND SOUTH	----- D° ----- D° ----- D° -----
5 { ENGLAND SOUTH	SE ^{ly} winds, light; fair generally, but misty in places.	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 come 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 come towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...	30.58	38	36	N 2	60	2	Holyhead ...	30.57	37	34	ESE 3	6	2
Sumburgh Head ...	30.56	41	40	2 0	0	0	Valencia ...	30.57	45	41	E 5	ben	5
Stornoway ...	30.61	37	37	N 1	0	2	Scilly ...	30.56	46	43	ESE 7	6	6
Aberdeen ...	30.68	38	35	SSW 1	0	1	Dungeness ...	30.54	35	33	E 5	0	4
Shields ...	30.68	38	35	ESE 2	0	2	London ...	30.61	35	33	ESE 3	om	*
Ardrossan ...	30.63	37	35	ESE 1	6	1	Yarmouth ...	30.60	35	34	E 4	eg	4
Malin Head ...	30.59	38	37	SE 3	60	1	Jersey ...	30.47	40	36	E 3	6	3
Mullaghmore ...	30.54	38	36	E 5	6	4	Rocheport ...	30.39	47	44	ESE 4	6	2
Belmullet ...	30.51	38	36	SE 5	6	*							

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

The reports for yesterday morning showed that pressure varied from about 30.7 ins. over the northern parts of the North Sea and from 30.6 ins. and more over all our northern and northeastern stations to somewhat below 29.5 ins. over the White Sea and north of Russia, and to about 30.2 ins. over the Spanish Peninsula and the western parts of the Bay of Biscay. In the latter region there appeared to be a large shallow depression moving northwards, while over Russia there was a larger and deeper disturbance moving southwards. Thus, while calm and variable airs prevailed in Scotland, and apparently over some parts of the North Sea, accompanied by fair but hazy weather, SE^{ly} and E^{ly} winds, with fine weather were reported over Ireland, England, and France, and NW^{ly} to N^{ly} winds and cloudy weather, with some snow over the Gulf of Bothnia and the Baltic. Temperature had risen somewhat at the Baltic stations, but fallen over France and England. It was much lower in Austria-Hungary and Finland than elsewhere. The lowest individual values were (a) -5° F. at Hermannstadt, +9° at Kuda-Roth, 14° at Nicolaïff and Cracow, 15° at Odessa, 16° at Lemberg, 18° at Breslau and Munich, 19° at Nicabaden, 20° at Carrel and 21° at Berlin; (b) 9° at Uleaborg, 13° at Haparanda, 16° at Archangel and Kuopio, 27° at Bodö, and 28° at Hemö and Stockholm. In the northeast of Scotland there was a third (local) area of sharp frost - the thermometer at Nairn recording 10° at 8 am. The highest readings were 53° at Lisbon, 51° at Algiers, San Fernando, and Bilbao, 46° at Scilly, 45° at Brindisi, 44° at Valencia and 43° at Cagliari.

There was little change reported later on.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 20th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.																			
Haparanda ..		29.63	11	N.	4	b	29.68	+ .49	5	3	- .20	Z	0	o	*	32	?	-	
Hernösand ...		29.82	33	NW	8	b	29.84	+ .09	30	27	- .3	NW	2	bc	*	43	21	-	
Stockholm ...		29.86	32	NW	6	o	29.93	- .21	29	27	+ .6	W	4	o	*	34	18	-	
Wisby ...		29.93	28	NW	6	bc	29.97	- .28	35	33	+ .4	NW	4	b	*	37	?	-	
Bodö ...		29.76	33	W	4	b	29.83	+ .30	30	27	- .6	NW	4	bc	3	36	27	?	
Christiansund...		30.10	40	W	8	r	30.08	- .14	36	35	- .4	NW	4	r	5	41	34	0.28	
Skudesnaes ...		30.29	37	Z	0	o	30.20	- .29	39	38	+ .9	NW	2	o	2	39	30	-	
Christiania Fjord (Ferder)		30.07	34	WSW	3	b	30.02	- .24	34	32	+ .3	NW	2	b	1	36	30	-	
Skagen (The Scaw)		29.90	37	NW	5	bc	30.04	- .26	35	34	- .1	NW	2	o	2	37	34	-	
Fanö ...		30.36	35	W	4	c	30.28	- .28	36	35	+ .6	NW	6	c	*	36	30	-	
Sumburgh Head		30.36	39	NW	1	c	30.25	- .23	41	40	+ .4	W	2	o	2	43	36	0.01	
Stornoway ...		30.38	39	SW	5	o	30.21	- .29	42	42	+ .4	SW	6	o	4	42	36	-	
Wick ...		30.42	28	Z	0	bc	30.30	- .21	30	29	+ .5	Z	0	o	0	36	22	-	
Nairn ...		30.43	26	Z	0	b	30.30	- .23	28	27	+ .8	Z	0	bc	1	33	19	-	
Aberdeen...		30.46	28	NW	1	b	30.34	- .18	26	25	0	W	1	o	1	39	22	-	
Leith ...		30.49	33	W	1	b	30.38	- .22	36	35	+ .9	NW	1	cm	*	37	25	-	
Shields ...		30.51	31	W	2	cm	30.46	- .20	28	27	- .3	W	3	m	3	35	25	-	
Spurn Head ...		30.54	32	SSW	3	o	30.47	- .19	30	28	- .6	WSW	1	bm	2	41	28	-	
York ...		30.53	30	S	1	c	30.47	- .20	22	22	- .11	S	0	f	*	35	22	-	
Loughborough		30.56	32	SSW	2	o	30.49	- .19	25	25	- .6	ESE	1	bm	*	38	24	-	
BRITISH ISLANDS.																			
Ardrossan ...		30.49	37	SE	3	o	30.38	- .22	36	35	+ .9	ESE	1	cf	1	37	27	-	
Malin Head ...		30.44	35	SSE	3	bm	30.25	- .26	42	42	+ .9	S	3	c	3	42	33	-	
Mullaghmore ...		30.39	39	SSE	2	bm	30.28	- .22	45	44	+ .9	WSW	1	o	2	46	34	-	
Behnullet ...		30.38	41	SE	2	b	30.25	- .19	46	46	+ .14	SSE	2	om	*	46	31	-	
Donaghadee ...		30.48	38	S	3	o	30.38	- .20	43	43	+ .5	S	2	o	1	43	35	-	
Barrow-in-Furness		30.51	30	NE	2	o	30.44	- .17	32	31	+ .1	ESE	1	om	*	32	29	-	
Liverpool (Bidston)		30.52	32	SE	3	c	30.45	- .18	30	30	+ .1	ESE	3	c	2	34	29	-	
Holyhead ...		30.50	35	Z	0	om	30.41	- .18	40	39	+ .11	ESE	1	om	1	41	29	-	
Parsonstown ...		30.41	40	SE	2	o	30.33	- .18	46	45	+ .10	S	1	o	*	47	35	-	
Valencia ...		30.29	49	SE	6	om	30.30	- .09	50	49	+ .4	SSE	4	rm	4	50	46	0.07	
Roche's Point...		30.38	46	S	4	pm	30.35	- .13	48	48	+ .4	SSE	3	rf	4	48	44	0.15	
Pembroke ...		30.47	39	ESE	4	o	30.43	- .10	40	40	+ .5	ESE	3	f 2	3	41	35	0.03	
Seilly ...		30.40	48	SSE	5	om	30.40	- .04	50	50	+ .3	SSW	2	f	4	50	45	0.03	
Prawle Point ...		30.52	40	ESE	2	bc	30.48	- .09	45	45	+ .5	ESE	1	f	1	45	38	0.02	
Jersey ...		30.54	35	ESE	2	b	30.53	- .05	40	38	+ .7	SSE	1	om	1	41	31	-	
Hurst Castle ...		30.58	34	E	2	o	30.50	- .12	34	34	- .2	ESE	2	om	1	38	32	-	
Dungeness ...		30.58	34	SE	3	o	30.49	- .15	31	30	- .3	NW	1	c	1	35	30	-	
London ...		30.58	32	SE	2	ov	30.51	- .14	31	30	- .5	S	1	bc	*	36	30	-	
Oxford ...		30.57	31	S	2	o	30.50	- .17	28	28	- .5	Z	0	bf	*	34	28	-	
Cambridge ...		30.55	33	SW	1	o	30.51	- .17	25	24	- .7	SW	1	b	*	36	25	-	
Yarmouth ...		30.57	36	WSW	1	cm	30.49	- .16	30	29	- .4	WSW	2	cf	2	37	29	-	
Cuxhaven ...		30.41	32	WSW	1	o	30.33	- .30	35	35	+ .6	W	2	o	*	35	?	-	
Berlin ...		30.47	29	W	5	o	30.37	- .23	32	31	+ .10	WSW	4	o	*	32	?	-	
Wiesbaden ...		*	*	*	*	*	30.55	- .10	28	27	0	E	1	o	*	30	27	-	
Munich ...		30.56	16	SW	1	o	30.49	- .11	13	13	- .4	SW	2	f	*	21	13	0.04	
FRANCE & NETHERLANDS.																			
The Helder ...		30.56	34	NW	1	c	30.48	- .15	35	33	0	W	1	c	1	36	34	-	
Brussels ...		*	*	*	*	*	30.53	- .14	30	29	+ .1	S	1	o	*	35	30	-	
Cape Gris Nez...		30.62	31	SE	1	o	30.47	- .16	28	28	- .3	SSE	3	m	1	34	28	-	
Paris ...		30.61	29	NE	1	o	30.56	- .07	26	25	+ .6	S	1	o	*	29	?	-	
Brest ...		30.52	44	SSE	4	o	?	?	42	29	+ .4	SSE	3	o	5	46	?	-	
Lorient ...		30.52	40	SSE	4	b	30.54	+ .05	36	35	+ .2	ESE	3	m	2	?	32	-	
Rochefort ...		30.55	38	NE	4	b	30.51	- .02	29	29	- .2	ESE	3	b	2	48	23	-	
Belfort ...		30.54	24	NE	1	o	30.50	- .06	18	18	- .1	E	1	f	*	?	14	-	
Lyons ...		30.63	22	N	1	m	30.60	0.00	21	20	- .3	W	1	m	*	25	19	-	
Nice ...		30.47	39	Z	0	b	30.47	+ .07	40	37	+ .5	E	1	o	2	48	35	-	
Perpignan ...		30.51	40	E	1	b	30.52	+ .07	28	28	- .3	E	3	b	*	53	28	-	
Biarritz ...		30.48	49	NNE	3	b	30.53	+ .08	44	42	+ .4	S	3	o	0	57	40	-	
PENINSULA.																			
Corunna ...		*	*	*	*	*													
Lisbon ...		30.47	36	NNE	3	b	30.50	+ .07	47	47	- .5	NNE	5	c	2	57	46	-	

For Explanation of Columns, see p. 4. † Observations taken at 9 a.m.

WEATHER

CHARTS

for 8 a.m. on

Friday,

20th

January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = force above 20; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

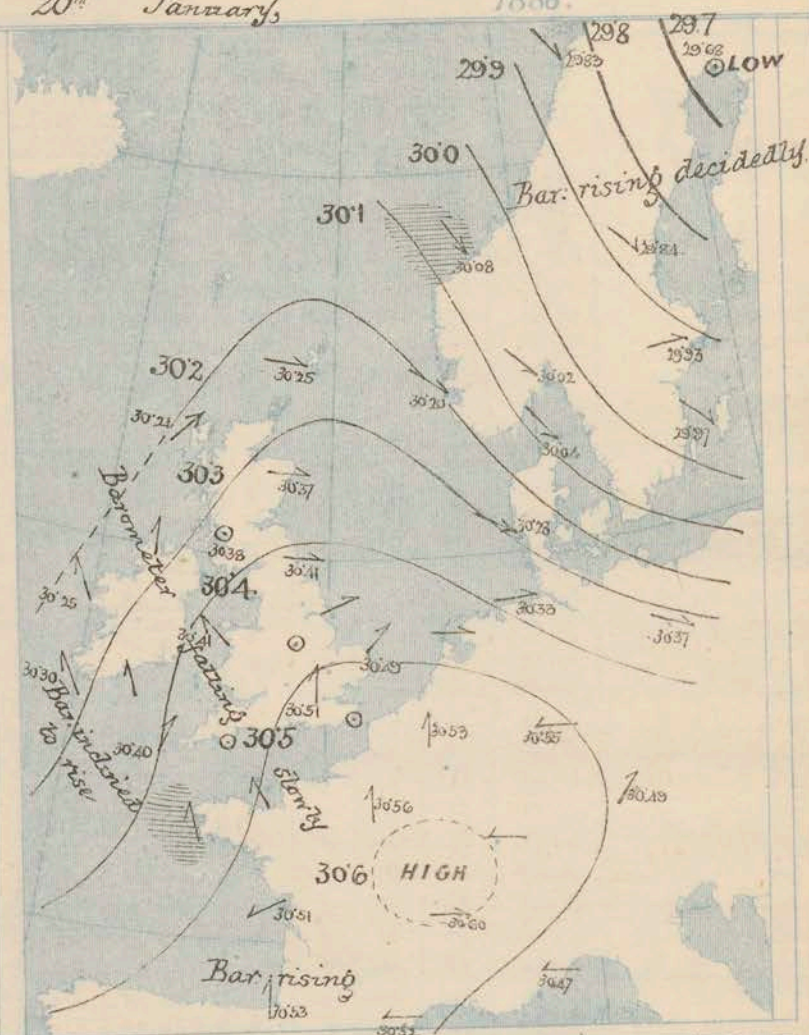
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.888
Valencia	29.859
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

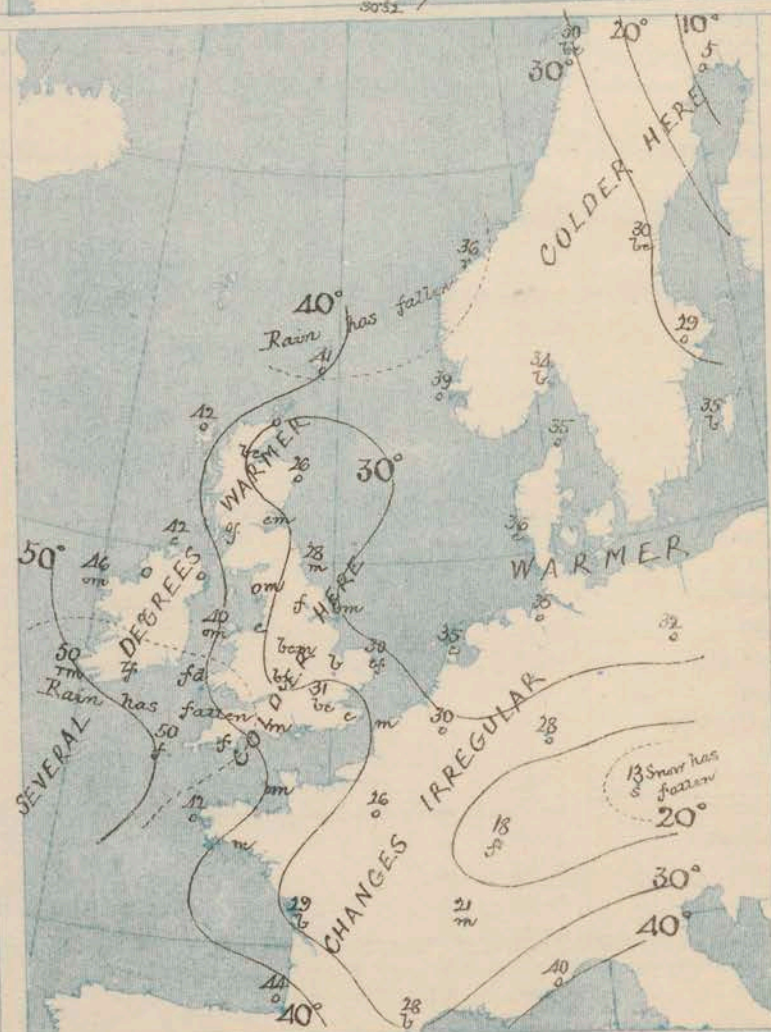
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 5 a.m.		
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.96
Shields	33.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.0	39.0	41.7	40.3	3.40
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.32
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1868-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins. to 30.6 ins. over France, the north of Spain, and the southeastern parts of England.
 Lowest, 30.2 ins. at Stornoway — 29.7 ins. at Haparanda.
 Gradients, slight, especially over England and France.
 Barometer rising over Scandinavia; inclined to rise over southeast and south of our Islands.

TEMPERATURE

Highest, 50° at Sully and Valencia, 48° at Rocher Point, 47° at Lisbon, and 46° at Belmullet.
 Lowest, 5° at Haparanda, 13° at Munich, 18° at Belfast, 22° at York, 25° at Loughborough and Cambridge, 26° at Paris.
 It has increased considerably over Ireland and Scotland, decreased over England and at some of the Continental stations.

WIND

Moderate SSE and S in Ireland — strong SW at Stornoway.
 Moderate NW on Eastern shores of North Sea.
 Variable airs and calms prevail over Great Britain and France.

WEATHER

Rainy in the south of Ireland and at Christiansund — fair elsewhere, but with much cloud in some localities, fog in others.
 There was a slight fall of "graupel" (soft hail) over some inland parts of England early this morning.
 Bands of Cirrus cloud are passing over London from the northward.

SEA

Wather rough at Great, moderate on our southwest coasts and at Stornoway, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present no definite indication of any immediate change of importance.

FORECASTS

for the 24 hours ending at NOON on 21st JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ^{ly} winds freshening; cloudy, some showers.
1	SCOTLAND EAST	SW ^{ly} breezes, light; fine, mild in day, cold at night.
2	ENGLAND N.E.	----- D° ----- D° ----- D° -----
3	ENGLAND EAST	----- D° ----- D° ----- D° -----
4	MIDLAND COUNTIES	Same as No 5.
5	ENGLAND SOUTH	Very light breezes and calms, fine and mild during day, frosty in night, some fog inland towards morning.



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST.	S ^{ly} breezes, light to moderate; fair, mild.
7	ENGLAND N.W.	----- D° ----- D° ----- D° -----
8	ENGLAND S.W.	----- D° ----- D° ----- D° -----
9	IRELAND NORTH	S ^{ly} breezes, moderate; fair.
10	IRELAND SOUTH	----- D° ----- D° ----- D° -----

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.39	39	37	WNW 2	0	2	Holyhead ...	30.53	35	33	W 0	om	0
Sumburgh Head ...	30.40	39	37	W 0	0	0	Valencia ...	30.32	48	47	SE 5	omg	5
Stornoway ...	30.44	39	39	SW 5	0	4	Scilly ...	30.42	47	45	SE 5	0	6
Aberdeen ...	30.50	38	32	WNW 1	bm	1	Dungeness ...	30.53	35	33	SE 3	0	3
Shields ...	30.53	35	33	SW 3	m	2	London ...	30.64	35	34	SSW 2	ogm	*
Ardrossan ...	30.52	36	34	SSW 2	0	2	Yarmouth ...	30.59	37	36	SW 2	e	3
Malin Head ...	30.43	38	37	SSW 3	6	2	Jersey ...	30.55	40	36	E 2	6	2
Mullaghmore ...	30.40	38	36	SE 2	6	4	Rochefort ...	30.54	44	41	ESW 3	6	2
Belmullet ...	30.38	41	39	SE 2	6	*							

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

The reports for yesterday morning showed that while a large anticyclone with readings above 30.5 ins. was lying over the British Isles, France and Germany the centre of a deep depression in which readings were below 29.2 ins. was travelling eastwards across Lapland. The distribution of pressure over Europe was therefore fairly simple, and while fresh to strong breezes from the Wnd or NWnd were reported in the extreme north, moderate E^{ly} or NE^{ly} breezes prevailed in the more southern countries and light variable breezes over the central districts. The weather was fine in Denmark, France, and the east of Great Britain as well as in some parts of Algeria, but cloudy, or overcast elsewhere, with fog over Belgium and North Germany, and rain at Uleaborg. Temperature had fallen several degrees in the east of Scotland and Northern Russia, and slightly over Spain, France and Northern Italy, but risen elsewhere; readings ranged from 50° and upwards at several of the Algerian and Spanish stations to 15° and less over Northern and Central Russia. The highest individual readings were 54° at Oren and Oporto, 53° at Girona, Lisbon, Nemours, and Algiers, 50° at Bilbao, and 48° at Barcelona and San Fernando; the lowest were 6° at St. Petersburg, 8° at Archangel and Moscow, 11° at Besançon, 12° at Hermannstadt and Kuopio, 14° at Helsinki, and 19° at Clermont.

In the course of the day the anticyclone moved slowly southwards and a fall of the barometer took place over the whole of Northwestern Europe. Very little change occurred, however, in the prevailing winds or weather.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday 21st January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.													
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.														
SCANDINAVIA.																														
Haparanda ...	29.62	5	2	0	0	29.61	-.07	2	2	-3	N	2	0	*	32	-2	-													
Hernösand ...	29.94	23	2	0	0	29.80	-.04	23	21	-7	NW	4	0	*	34	21	-													
Stockholm ...	30.00	30	N	2	0	29.93	-.00	21	20	-8	W	4	0	*	30	?	-													
Wisby ...	30.01	35	N	6	0	29.95	-.02	33	32	-2	W	4	0	*	39	30	-													
Bodö ...	29.81	28	N	6	0	29.75	-.08	27	22	-3	NE	4	0	*	30	25	-													
Christiansund ...	30.10	35	2	0	0	29.88	-.28	35	33	-2	NW	1	0	3	30	2	0.04													
Skudesnaes ...	30.19	39	NW	1	0	29.88	-.32	40	39	+1	SE	6	0	4	?	39	-													
Christiania Fjord (Færdar)	30.10	32	NW	2	0	29.92	-.10	33	32	-1	NW	2	0	1	36	27	-													
Skagen (The Scaw)	30.09	37	NW	1	0	29.98	-.06	35	35	0	NW	1	0	2	39	30	-													
Fanö ...	30.26	37	NW	5	0	30.12	-.16	35	34	-1	SW	3	0	*	37	?	-													
BRITISH ISLANDS.																														
Sumburgh Head	30.13	40	2	0	0	29.69	-.56	44	44	+3	2	0	0	1	44	38	0.10													
Stornoway ...	30.08	45	SW	6	0	29.62	-.59	46	45	+6	W	4	0	4	48	40	0.22													
Wick ...	30.12	39	S	2	0	29.63	-.67	44	44	+14	S	2	0	0	44	28	0.15													
Nairn ...	30.14	41	2	0	0	29.67	-.63	45	44	+17	2	0	0	1	47	27	0.08													
Aberdeen ...	30.22	33	2	0	0	29.75	-.62	41	40	+15	S	1	0	1	43	26	0.09													
Leith ...	30.27	40	NW	1	0	29.80	-.58	48	47	+12	W	3	0	*	49	34	0.12													
Shields ...	30.32	39	SW	1	0	29.90	-.50	41	41	+13	SW	3	0	2	41	25	0.19													
Spurn Head ...	30.40	36	SSW	3	0	30.00	-.47	40	40	+10	S	3	0	2	40	30	-													
York ...	30.40	34	SSW	1	0	29.96	-.51	41	41	+19	S	2	0	*	41	22	0.10													
Loughborough	30.41	39	E	1	0	30.06	-.43	44	44	+19	SSW	3	0	*	44	25	0.14													
GERMANY.																														
Ardrossan ...	30.27	41	2	0	0	29.81	-.57	48	47	+12	NW	3	0	3	48	34	0.83													
Malin Head ...	30.18	47	S	4	0	29.83	-.42	46	46	+4	NW	4	0	3	50	42	0.27													
Mullaghmore ...	30.17	53	SE	4	0	29.94	-.34	48	48	+3	NW	5	0	4	56	43	0.40													
Belmullet ...	30.14	40	S	1	0	29.97	-.28	49	48	+3	NW	3	0	*	54	46	0.42													
Donaghadee ...	30.28	46	S	2	0	29.90	-.48	50	50	+7	W	4	0	2	50	42	0.39													
Barrow-in-Furness	30.35	37	NE	2	0	29.92	-.52	44	44	+12	SW	4	0	*	44	31	0.37													
Liverpool (Bidston)	30.36	39	SE	2	0	29.95	-.47	48	47	+18	SW	2	0	2	48	30	0.22													
Holyhead ...	30.34	44	S	4	0	29.99	-.42	47	47	+7	SW	4	0	4	48	39	0.35													
Parsonstown ...	30.27	49	2	0	0	30.04	-.29	48	48	+2	2	0	0	*	53	46	0.28													
Valencia ...	30.21	51	SE	6	0	30.11	-.19	49	49	-1	NW	2	0	3	55	48	0.55													
Roche's Point...	30.31	47	SE	3	0	30.09	-.26	50	49	+2	W	2	0	4	50	46	0.65													
Pembroke ...	30.38	44	SE	2	0	30.09	-.34	48	48	+8	SW	4	0	3	48	40	0.54													
Scilly ...	30.38	50	SSW	3	0	30.20	-.20	50	50	0	NW	5	0	5	50	48	0.40													
Prawle Point ...	30.45	47	SSW	3	0	30.20	-.28	48	48	+3	SSW	5	0	5	49	43	0.53													
Jersey ...	30.52	43	2	0	0	30.32	-.21	46	45	+6	SW	3	0	3	46	39	0.01													
FRANCE & NETHERLANDS.																														
Hurst Castle ...	30.47	42	SE	2	0	30.18	-.32	45	45	+11	SW	6	0	1	45	32	0.12													
Dungeness ...	30.49	39	NW	3	0	30.21	-.28	44	43	+13	SW	4	0	4	44	29	-													
London ...	30.48	39	S	2	0	30.16	-.35	45	45	+14	SSW	2	0	*	45	30	0.06													
Oxford ...	30.44	38	S	1	0	30.12	-.38	45	45	+17	S	2	0	*	45	28	0.15													
Cambridge ...	30.45	33	SSW	1	0	30.15	-.36	46	46	+21	SW	1	0	*	46	24	-													
Yarmouth ...	30.43	33	SW	2	0	30.14	-.35	39	39	+9	SSW	2	0	3	39	29	0.01													
Cuxhaven ...	30.39	34	NW	4	0	30.22	-.11	35	34	0	SW	3	0	*	35	32	-													
Berlin ...	30.30	34	NW	5	0	30.28	-.09	33	32	+1	NW	5	0	*	34	32	0.08													
Wiesbaden ...	*	*	*	*	*	30.47	-.08	26	25	-2	2	0	0	*	30	25	-													
Munich ...	30.47	17	W	4	0	30.42	-.05	19	19	+6	2	0	0	*	21	27	-													
PENINSULA.																														
The Helder ...	*	*	*	*	*	30.34	-.19	28	27	-2	S	4	0	*	31	26	-													
Brussels ...	*	*	*	*	*	30.23	-.24	36	36	+8	SW	7	0	5	?	28	-													
Cape Gris Nez...	30.48	32	SW	4	0	30.23	-.24	36	36	+8	SW	7	0	5	?	28	-													
Paris ...	30.58	27	2	0	0	30.47	-.09	26	25	0	SSW	3	0	*	28	24	-													
Brest ...	30.51	45	S	5	0	30.39	?	44	44	+2	SW	4	0	5	46	28	0.12													
Lorient ...	30.56	40	SE	1	0	30.42	-.12	47	46	+11	SSW	4	0	4	?	34	-													
Rochefort ...	30.60	35	E	3	0	30.54	+0.03	36	36	+9	SE	3	0	2	41	28	-													
Belfort ...	30.49	21	SE	1	0	30.46	-.04	15	15	-3	SE	1	0	*	21	13	-													
Lyons ...	30.57	24	N	1	0	30.59	-.01	21	20	0	N	1	0	*	25	20	-													
Nice ...	30.31	43	E	1	0	30.34	-.13	39	35	-1	ENE	3	0	3	48	?	-													
Perpignan ...	30.39	30	NW	4	0	30.41	-.11	45	37	+17	NW	3	0	*	50	?	-													
Biarritz ...	30.36	46	E	1	0	30.52	-.01	45	42	+1	SE	1	0	0	52	43	-													
GERMANY.																														
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-												
Lisbon ...	30.30	51	N	4	0	30.49	-.01	42	42	-5	NNE	5	0	2	57	41	-													

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Saturday, 21st January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

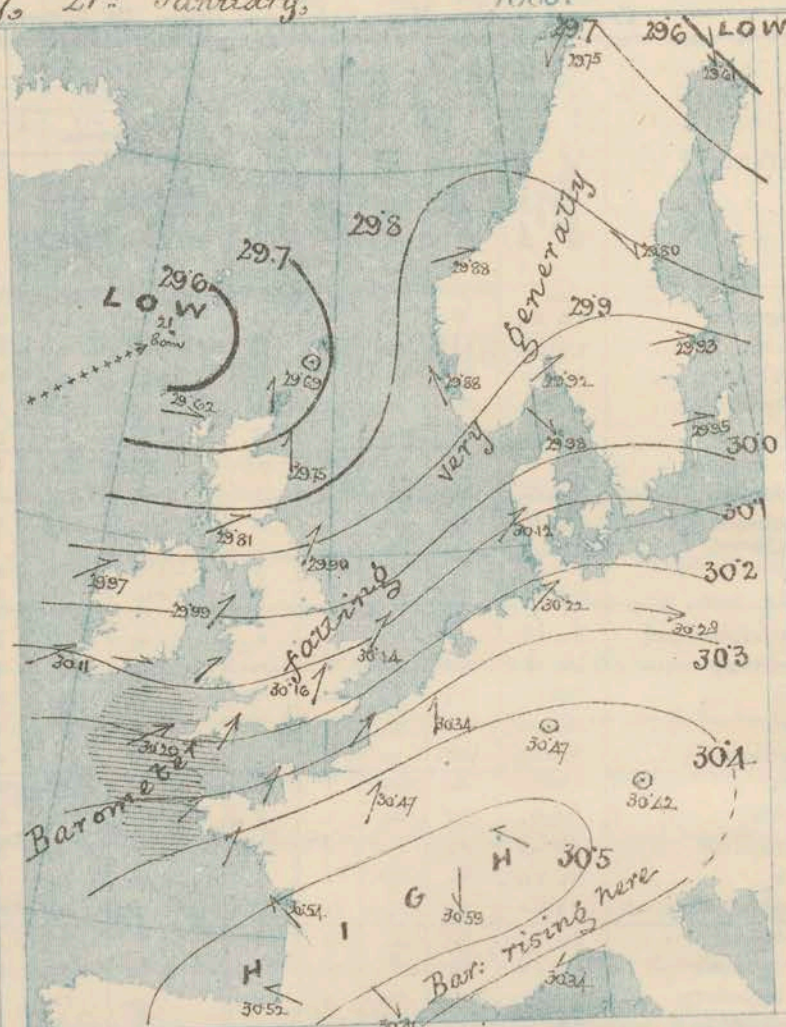
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○ — dead calm.

Sea Disturbance — where considerable is shown thus.
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.860
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.993
Yarmouth	30.081



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

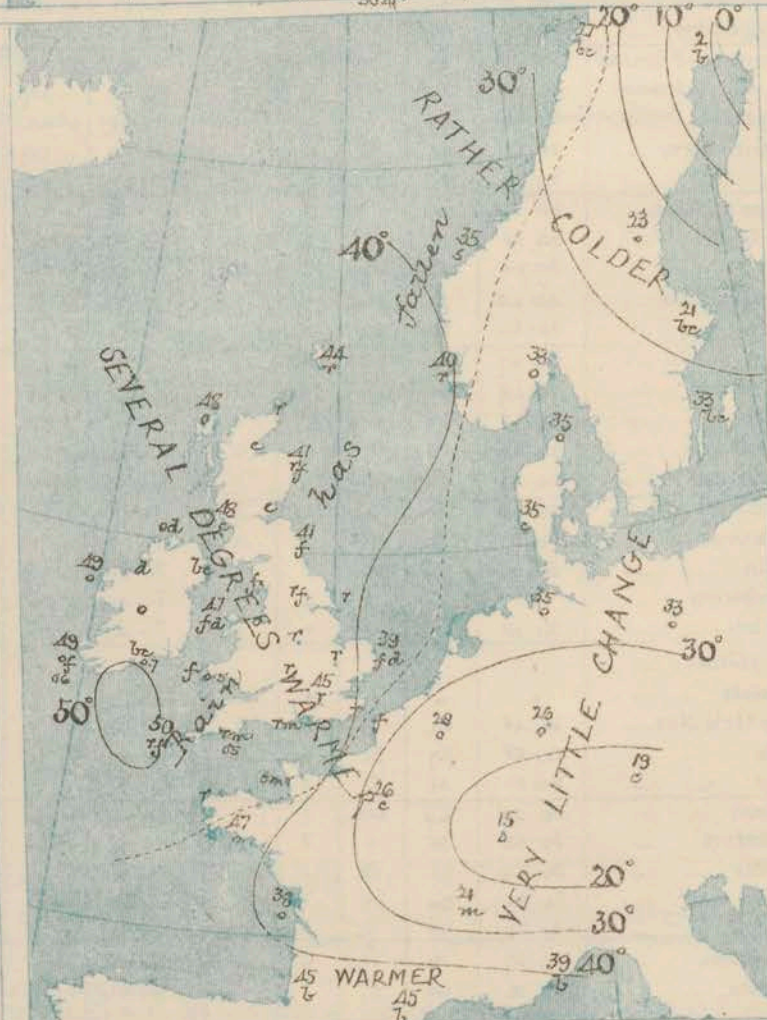
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of January.

for the month of January.					
STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	48.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.34
Leith	44.6	33.7	38.2	36.8	1.95
Shields	43.1	34.7	38.0	36.7	1.70
York	43.2	33.1	36.3	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.8	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.70
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.98
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.5 ins: to 30.6 ins: in an anticyclone lying over the southern half of France. Lowest, about 29.6 ins: in a depression lying off Cape Wrath and also over the eastern parts of Lapland. Gradients moderate, for SW winds. Barometer falling generally, most in the north.
TEMPERATURE	Highest, 51° at Scilly and Rock Point, 49° at Belmullet and Valencia, 48° at Stromness, Plover Point, and several other western stations. Lowest, 2° at Haparanda, 15° at Belfort, 19° at Munich, 21° at Lyons, 23° at Amstardam, 26° at Paris and Märladen, 39° at Yarmouth. It has risen very quickly over Great Britain since yesterday, — most at Cambridge.
WIND	Has become SW ^{ly} (S to W) over the British Isles, North Sea, Holland and the north of France. It is light to moderate generally, but blows fresh in the Channel.
WEATHER	Changeable, cloudy and showery over the United Kingdom the rainfall being greater at our southern stations than elsewhere. In the southeast of Ireland the sky has cleared temporarily since the rain fell. Wet fog prevails at several stations.
SEA	Rather rough in the south, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT


As the depression in the north moves away to the northeastward, and after the very shallow subsidiary over Wales has passed eastwards the weather will probably clear very temporarily; but


As the barometer shows no tendency to rise in the west of Ireland and the wind there still blows from the southward of W., it is probable that other disturbances (intensity unknown) will reach our western coasts shortly and cause a continuation of mild changeable showery weather over the British Islands and the neighbourhood

FORECASTS

for the 24 hours ending at NOON on 22nd JAN^y 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ^{ly} and S ^{ly} breezes, with changeable, rain at times.	6 SCOTLAND WEST	S ^{ly} and SW ^{ly} winds, increasing in force; rain at times.
1 SCOTLAND EAST	.....D°.....D°.....D°.....	7 ENGLAND N. W.	.....D°.....D°.....D°.....
2 ENGLAND N. E.	.....D°.....D°.....D°.....	8 ENGLAND S. W.	.....D°.....D°.....D°.....
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	.....D°.....D°.....D°.....
4 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	.....D°.....D°.....D°.....
5 ENGLAND SOUTH	SW ^{ly} (W to S) winds, moderate; rain at times, with bright intervals.		
		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 sweep 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 sweep towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wes.	Sea.		Bar.	Ther.	Wet.	Wind.	Wes.	Sea.
Studeaness ...	30.14	40	39	WN 2	7 f	2	Holyhead ...	30.37	43	43	S 4	0 m	3
Sumburgh Head ...	30.19	40	39	W 1	0	2	Valencia ...	30.26	51	50	SE 5	7 m	5
Stornoway ...	30.15	44	44	SW 6	0 m	5	Scilly ...	30.39	50	50	SSW 2	8	4
Aberdeen ...	30.28	33	32	2 0	2	1	Dungeness ...	30.47	40	37	WNW 1	6	1
Shields ...	30.40	34	33	SW 2	0 m	2	London ...	30.44	42	40	SSW 1	0 m	4
Ardrossan ...	30.32	41	40	S 1	0	2	Yarmouth ...	30.46	33	32	SW 2	0 m	2
Malin Head ...	30.44	45	45	S 4	0	3	Jersey ...	30.53	42	40	SE 1	0	1
Mullaghmore ...	30.23	53	51	SSE 1	2	2	Rochefort ...	30.58	33	31	E 4	0 m	2
Belmullet ...	30.20	48	48	SW 2	0 m	2							

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

The reports for yesterday morning showed that pressure was highest 30.5 ins. and upwards in a long band which extended from Algeria to the north of France and thence in an ESE^{ly} direction across the southern parts of Germany and Austria to the Black Sea. The lowest readings 29.5 ins. and less, were found in a depression which was passing, backwards across Northern Russia, but relatively low pressures were beginning to appear off our extreme western coasts. The wind was moderate from the Sth in the west and south of the British Isles, and fresh or strong from the Wth or NWth over Northern and Central Europe, but in the more southern countries it drew into NE. or N. The weather was fine over Southern Europe and also in the south and southeast of England, but cloudy in most other localities, with rain in the south of Ireland, fog in the southwest of our Islands generally, and snow at Munich. Temperature had risen several degrees over Ireland and Scotland and to a less extent over Norway, Denmark, Germany and Central Russia but fallen elsewhere; readings ranged from 50° and upwards in the extreme southeast of our Islands and the southern parts of Spain and Italy to below zero over Lapland. The highest individual readings were 52° at Oporto, 51° at Malta, 50° at Valencia, Lody and Algiers, 49° at Lisbon, and 48° at Corunna and Palma, the lowest were -4° at Uleaborg, 0° at Archangel, 3° at Khabaranda, 4° at Moscow, 6° at Kuopio, 12° at Odessa, 14° at Charkov, 15° at Nicolaiiff, and 17° at Turin.

In the course of the day a decided Sth current of air set in over the whole of our Islands. Temperature consequently rose briskly and the weather became comparatively mild, with rain in many places at night.

NOTICE.

Daily Weather Report 1887. Vol II

The Frontispiece for this volume was issued with yesterday's report.

The Title Page is issued today.

The Monthly Summary and Correction Sheet for December will be issued in a few days. This will complete the volume.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale in 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 22nd JANUARY 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Baromet. at 5 P. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.71	-3	Z	0	b	29.84	+ .23	-15	-15	-17	Z	0	f	*	10	-22	-	
	Hernösand ...	29.80	2	Z	0	b	29.86	+ .06	0	-1	-23	Z	0	c	*	25	0	-	
	Stockholm ...	29.78	23	Z	0	0	29.77	- .16	22	20	+ 1	NNE	2	0	*	30	18	-	
	Wisby ...	29.77	29	E	2	b	29.71	- .24	26	24	- 7	E	2	b	*	37	?	-	
	Bodö ...	29.75	21	E	2	b	29.73	- .02	16	14	- 11	ENE	4	b	2	27	14	-	
	Christiansund...	29.60	33	ESE	2	0	29.50	- .38	33	32	- 2	ESE	1	0	3	36	30	0.04	
	Skudesnaes ...	29.57	41	W	2	r	29.51	- .37	39	39	- 1	S	4	r	4	41	39	-	
	Christiania Fjord (Fjærdar)	29.69	31	N	4	S	29.53	- .39	32	32	- 1	E	4	S	1	33	27	-	
	Skagen (The Sound)	29.65	36	Z	0	0	29.52	- .46	34	33	- 1	SW	3	0	2	36	34	0.43	
	Fanö ...	29.67	39	S	4	0	29.50	- .62	37	37	+ 2	WSW	3	f	*	37	?	0.16	
BRITISH ISLANDS.	Sumburgh Head	29.51	45	Z	0	f	29.57	- .12	45	45	+ 1	WNW	3	r	3	46	43	0.16	
	Stornoway ...	29.61	47	W	3	0	29.73	+ .11	45	45	- 3	W	4	0	4	49	43	0.10	
	Wick ...	29.55	44	NW	2	f	29.69	+ .06	44	44	0	NW	2	f	1	47	40	0.05	
	Nairn ...	29.59	45	W	1	0	29.73	+ .06	46	44	+ 1	SW	3	bc	1	58	44	0.02	
	Aberdeen...	29.57	42	Z	0	f	29.72	- .03	47	45	+ 6	NW	2	c	1	48	40	0.11	
	Leith ...	29.63	45	W	4	c	29.76	- .04	44	44	- 4	W	2	b	*	50	43	-	
	Shields ...	29.68	49	WSW	3	r	29.77	- .13	45	44	+ 4	W	2	0	2	50	40	0.06	
	Spurn Head ...	29.78	46	WSW	3	c	29.79	- .21	42	41	+ 2	W	3	c	2	46	40	0.10	
	York ...	29.78	47	W	3	0	29.82	- .14	46	44	+ 5	W	1	0	*	51	40	0.01	
	Loughborough	29.88	49	W	3	0	29.85	- .21	46	45	+ 2	WNW	3	0	*	52	44	-	
GERMANY.	Ardrossan ...	29.70	44	WNW	4	a	29.85	+ .04	45	45	- 3	WNW	1	0	1	48	44	0.06	
	Malin Head ...	29.79	46	W	4	0	29.89	+ .06	43	43	- 3	WSW	3	0.2	3	47	43	0.03	
	Mullaghmore ...	29.90	46	W	5	0	29.91	- .03	44	44	- 4	SSW	2	0	2	48	43	0.04	
	Belmullet ...	29.95	47	W	2	0	29.94	- .03	47	47	- 2	WSW	2	m	*	49	42	0.04	
	Donaghadee ...	29.81	49	W	4	0	29.90	.00	45	44	- 5	W	3	c	2	51	45	-	
	Barrow-in-Farress	29.81	45	SW	3	0	29.86	- .06	43	43	- 1	NW	2	f	*	46	42	0.05	
	Liverpool (Bidston)	29.87	45	WSW	5	0	29.87	- .11	42	42	- 6	W	5	f	4	48	43	0.01	
	Holyhead ...	29.91	48	WSW	4	0	29.93	- .06	44	43	- 3	WNW	4	0	4	50	44	0.01	
	Parsonstown ...	29.97	48	SW	1	0	29.96	- .08	47	46	- 1	Z	0	0	*	49	45	0.02	
	Valencia ...	30.02	50	SSE	2	f	30.06	- .05	49	49	0	W	3	m	3	52	48	0.11	
FRANCE & NETHERLANDS.	Roche's Point...	30.01	48	W	1	bc	29.98	- .11	47	46	- 3	W	1	c	3	53	46	-	
	Pembroke ...	29.99	47	WSW	3	f	29.97	- .12	46	46	- 2	WNW	2	f	3	48	45	0.03	
	Scilly ...	30.09	50	W	5	f	30.04	- .16	49	49	- 1	WNW	6	af	6	51	48	0.16	
	Prawle Point ...	30.06	48	SW	3	f	29.96	- .24	48	48	0	W	4	f	3	50	45	0.30	
	Jersey ...	30.12	50	W	3	f	30.01	- .31	48	48	+ 2	WNW	4	f	3	50	45	0.46	
	Hurst Castle ...	29.99	44	WSW	4	bc	29.91	- .27	45	45	0	NW	4	c	2	46	41	0.21	
	Dungeness ...	29.93	45	W	4	f	29.84	- .37	43	42	- 1	WNW	3	c	2	45	41	1.07	
	London ...	29.94	49	W	1	m	29.88	- .28	45	44	0	W	2	0	*	51	44	0.22	
	Oxford ...	29.91	47	WSW	2	c	29.89	- .23	43	41	- 2	SW	3	op	*	49	41	0.11	
	Cambridge ...	29.89	48	SW	1	0	29.83	- .32	46	45	0	W	1	0	*	51	44	0.21	
PENIN- SULA.	Yarmouth ...	29.83	47	W	3	bc	29.78	- .36	45	44	+ 6	NW	3	fg	3	47	37	0.06	
	Cuxhaven ...	29.92	32	SSW	3	r	29.63	- .59	37	37	+ 2	WSW	3	m	*	37	32	0.50	
	Berlin ...	29.96	31	SW	4	0	29.69	- .59	33	32	0	SW	2	0	*	34	30	0.08	
	Wiesbaden ...	*	*	*	*	*	29.84	- .63	36	36	+ 10	SW	1	0	*	37	26	0.35	
	Munich ...	30.17	30	W	4	c	29.91	- .51	36	36	+ 17	SW	6	r	*	?	19	0.08	
	The Helder ...	29.76	39	SW	3	f	29.67	- .52	41	40	+ 13	WSW	3	r	*	41	32	0.20	
	Brussels ...	*	*	*	*	*	29.82	- .52	41	41	+ 13	WSW	3	r	*	42	28	0.12	
	Cape Gris Nez...	29.93	45	SW	7	f	29.84	- .39	43	43	+ 7	NW	5	c	4	45	36	0.24	
	Paris ...	30.15	35	SW	4	r	29.94	- .53	41	41	+ 15	SSW	1	r	*	?	?	0.28	
	Brest ...	30.19	48	SW	5	m	30.19	- .20	46	45	+ 2	WSW	5	f	6	48	34	0.16	

For Explanation of Columns, see p. 4.

WEATHER

for 8 a.m. on

CHARTS

Sunday 22nd January

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 7; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4;
○ = dead calm.

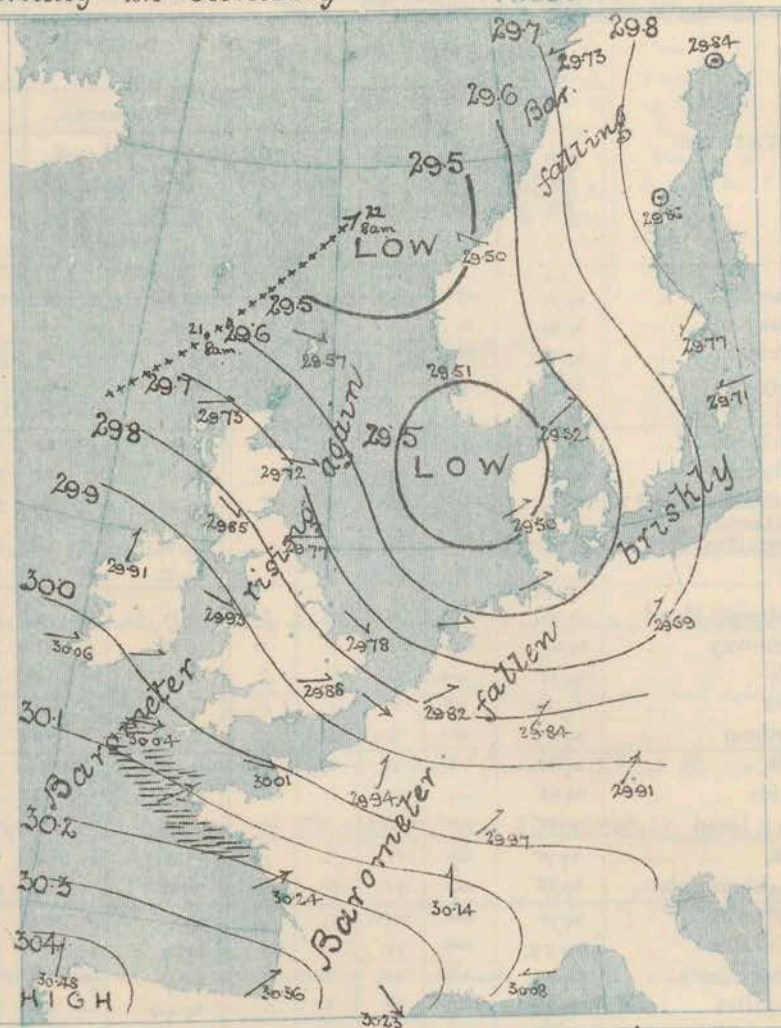
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.880
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

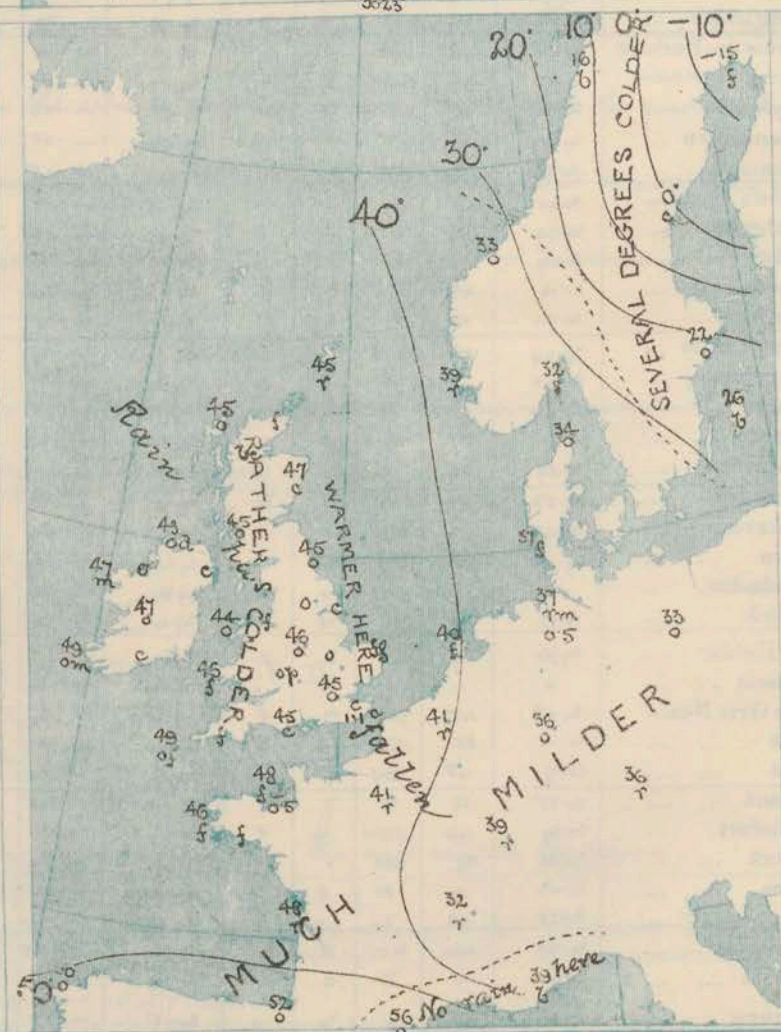
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet at 8 a.m.	
Sumburgh Head	42.9	35.4	39.4	38.2	8.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.03
Aberdeen	42.4	33.8	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.96
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	2.49
Liverpool	43.9	35.6	38.7	37.1	2.33
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.32
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	3.83
Cambridge	43.9	32.6	36.5	35.7	1.67
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards, in an anticyclone lying over the Iberian Peninsula.
Lowest, 29.5 ins: and less, in a depression lying off the west of Norway, and also in a large secondary disturbance lying to the S^W of that country.
Gradients moderate. Barometer rising a little in our Islands, but falling elsewhere.

TEMPERATURE

Highest, 56° at Lerpignan, 52° at Biarritz, 50° at Gournay, 49° at Valencia and Seilly and 48° at Bawle Point, Jersey and Rochefort.
Lowest, -15° at Haparanda, 0° at Helsingfors, 16° at Rode, 22° at Stockholm, 26° at Ulsby and 32° at Tander and Lyons.

WIND

Light to fresh from W. or NW over the greater part of our Islands and also in the west of France.
Moderate SW^W over Denmark and Germany; light E^W in Scandinavia.

WEATHER

Cloudy or overcast generally with fog over the southwest of England, the northwest of France and the Netherlands.
Rain is falling in South Germany and the East of France as well as at Skudunæs and Sumburgh H^{ts}.
Rain fell generally, yesterday, - heavily at some of our southern stations.

SEA

Rough at the mouth of the Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed off the north of Scotland yesterday has moved slowly north-eastwards, but a large and well defined secondary disturbance has been developed over the North Sea.

The latter system is apparently moving eastwards.

FORECASTS

for the 24 hours ending at NOON on 23rd JAN^y

1888.

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


WARNINGS

FORECASTS.

NONE ISSUED.

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.70	40	39	SSE	4	r f	4	Holyhead ...	29.95	48	47	WSW	4	om	4
Sumburgh Head ...	29.52	45	45	2	0	0	1	Valencia ...	30.08	50	50	WSW	3	of	3
Stornoway ...	29.55	49	49	SW	3	0	4	Scilly ...	30.14	51	50	WSW	5	of	4
Aberdeen ...	29.51	42	41	SW	1	o f	1	Dungeness ...	29.99	45	44	W	5	r	4
Shields ...	29.74	30	48	WSW	4	c	2	London ...	29.97	51	50	SW	2	0	*
Ardrossan ...	29.75	48	47	WSW	5	0	4	Yarmouth ...	29.91	46	45	WSW	3	odg	3
Main Head ...	29.80	47	47	W	4	od	3	Jersey ...	30.17	50	49	WSW	4	0	4
Mullaghmore ...	29.92	48	48	WSW	5	od	4	Rocheport ...	30.47	45	42	SSE	4	0	2
Belmullet ...	29.96	49	49	W	3	0	*								

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

The reports for yesterday morning showed that the anticyclone recently observed in our neighbourhood had again moved southwards and lay over the southern half of France and the Spanish Peninsula, while a depression of slight intensity, but considerable size had advanced to the neighbourhood of Cape Wrath from the SWnd. The disturbance previously existing over Finland had passed away to the NErd. The pressure at Sun varied from 30.5 ins: and upwards over Southwestern Europe to about 29.6 ins: between the Faro Isles and Sutherlandshire and to about 29.3 ins: on the shores of the White Sea. The wind had become SW^{ly} over the whole of Northwestern Europe (but was of little strength) and was accompanied by mild showery weather, while in Finland it was veering to the Nth, and the weather was fair. Temperature was still low on the Continent, and varied from little above 32° (F) over Lapland, Finland, and Northern Russia, and from several degrees below the freezing point over Central France and Western Germany to about 50° on our extreme west and southwest coasts. The lowest individual readings were 2° at Haparanda, 4° at Uleaborg and Moscow, 5° at St. Petersburg, 10° at Archangel, 11° at Kuopio, 12° at Clumont, 13° at Helsinki, 15° at Belfast, 19° at Munich, 21° at Stockholm, Carlenske, and Lyons, 22° at Charleston, 23° at Vienna and 26° at Paris; the highest were 50° at Malta and Scilly, 49° at Algiers, Beert, Valencia, and Belmullet, 48° at Liverpool, Ardrossan, Stornoway and Leith and 45° in London.

Later on temperature rose to a still higher value over the British Isles and the milder weather spread over France and North Germany also.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 23rd January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.								PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.
SCANDINAVIA.																	
Haparanda ..	29.89	-6	Z	0	f	29.88	+0.04	3	3	+18	Z	0	0	*	?	-15	Ino.
Hernösand ...	29.90	13	Z	0	0	29.86	-0.00	21	20	+21	S	6	0	*	?	-2	-
Stockholm ...	29.88	21	EHE	2	0	29.95	+0.18	23	21	+1	SSE	2	0	*	25	19	-
Wishy ...	29.79	24	E	2	S	29.87	+0.16	24	23	-2	SE	4	0	*	32	23	0.04
Bodö ...	29.71	16	EHE	4	b	29.43	-0.30	23	20	+7	EHE	6	0	3	23	14	-
Christiansund...	29.61	31	ESE	1	b	29.44	-0.06	40	38	+7	WSW	8	0	4	40	28	0.16
Skudesnaes ...	29.65	41	Z	0	r	29.77	+0.12	43	41	+2	W	4	0	4	?	39	-
Christiania Fjord (Fierder)	29.76	28	EHE	3	0	29.72	+0.19	33	33	+1	SSW	3	3	1	33	?	-
Skagen (The Scaw)	29.71	32	SE	2	0	29.80	+0.28	33	33	-1	SW	3	0	2	34	30	0.35
Fanö ...	29.71	36	NW	2	0	29.91	+0.41	35	35	-2	WSW	2	f	*	37	34	0.04
BRITISH ISLANDS.																	
Sumburgh Head	29.62	45	WNW	3	m	29.72	+0.15	45	43	0	W	4	0	3	46	40	0.05
Stornoway ...	29.77	47	W	6	r	29.92	+0.19	48	48	+3	SW	6	0	5	48	43	0.05
Wick ...	29.78	47	NW	2	c	29.92	+0.23	45	43	+1	SW	4	c	2	48	39	-
Nairn ...	29.77	48	WNW	1	c	30.03	+0.30	48	44	+2	SW	3	c	1	51	43	-
Aberdeen...	29.76	48	Z	0	bc	30.04	+0.32	42	39	-5	WNW	1	bc	1	50	38	-
Leith ...	29.88	47	W	2	bc	30.12	+0.36	47	45	+3	W	3	bc	*	51	43	-
Shields ...	29.86	47	W	3	bc	30.20	+0.43	43	42	-2	W	3	c	2	50	42	-
Spurn Head ...	29.90	42	WNW	2	c	30.21	+0.42	41	40	-1	WNW	5	b	2	43	40	-
York ...	29.91	45	W	1	bc	30.27	+0.45	39	39	-7	W	1	b	*	50	38	-
Loughborough	29.96	45	NW	2	0	30.29	+0.44	43	42	-3	NW	4	bcw	*	47	42	-
GERMANY.																	
Ardrossan ...	29.93	47	WNW	1	0p	30.20	+0.35	48	46	+3	SW	2	b	2	46	45	0.01
Malin Head ...	30.01	46	W	3	0d	30.14	+0.30	46	46	+3	WSW	4	bcw	3	47	43	0.01
Mullaghmore ...	30.07	47	W	4	0	30.28	+0.37	47	46	+3	SW	4	cm	3	48	43	0.03
Belmullet ...	30.12	49	WNW	3	c	30.29	+0.35	48	47	+1	SW	4	0	*	49	46	0.01
Donaghadee ...	30.00	49	SW	1	0	30.29	+0.39	42	42	-3	S	2	bc	1	49	42	0.01
FRANCE & NETHERLANDS.																	
Barrow-in-Furness	29.97	43	NW	3	0	30.28	+0.40	43	42	0	NW	2	bc	*	45	41	0.03
Liverpool (Bidston)	30.01	44	W	3	0	30.38	+0.46	42	41	0	W	3	b	3	45	41	0.02
Holyhead ...	30.02	47	W	3	cm	30.35	+0.42	44	44	0	W	3	bcw	2	49	43	-
Parsonstown ...	30.14	49	Z	0	c	30.38	+0.42	44	44	-3	Z	0	0	*	51	40	-
Valencia ...	30.23	51	NW	3	0	30.44	+0.38	48	47	-1	SE	2	cm	2	52	44	0.05
Roche's Point...	30.14	50	WNW	4	bc	30.43	+0.45	40	38	-7	N	1	b	3	52	39	-
Pembroke ...	30.08	48	NW	3	c	30.42	+0.45	45	44	-1	NW	2	bc	3	49	44	0.03
Scilly ...	30.11	49	WNW	4	f	30.43	+0.39	47	47	-2	N	2	cm	4	49	46	0.01
Prawle Point ...	30.10	49	WNW	3	c	30.39	+0.43	43	43	-5	WNW	3	b	2	52	41	-
Jersey ...	30.08	47	NW	2	c	30.37	+0.36	47	46	-1	N	2	bcw	2	49	46	0.03
PENIN. ISLANDS.																	
Hurst Castle ...	30.02	44	NW	3	b	30.34	+0.43	41	40	-4	Z	0	bcw	0	51	38	-
Dungeness ...	29.95	45	NW	2	m	30.24	+0.40	42	41	-1	N	2	c	1	46	41	-
London ...	29.98	45	NW	1	0	30.30	+0.42	41	40	-4	NW	1	bf	*	48	41	-
Oxford ...	30.06	42	NW	2	0	30.35	+0.44	42	40	-1	NW	2	b	*	49	42	-
Cambridge ...	29.95	47	W	1	0	30.29	+0.46	39	38	-7	NW	1	b	*	49	36	-
Yarmouth ...	29.89	45	NW	3	ofg	30.22	+0.44	41	40	-4	WNW	3	bcw	2	46	38	-
Cuxhaven ...	29.63	38	W	3	f	29.96	+0.23	40	40	+3	WNW	4	f	*	40	38	0.04
Berlin ...	29.60	39	SW	1	r	29.91	+0.22	37	35	+4	WNW	2	f	*	39	?	0.24
Wiesbaden ...	*	*	*	*	*	30.12	+0.28	42	41	+6	NW	3	0	*	43	?	-
Munich ...	29.86	37	W	4	r	30.08	+0.17	36	36	0	W	5	r	*	39	36	0.35
FRANCE & NETHERLANDS.																	
The Helder ...	29.86	40	NW	3	r	30.12	+0.45	41	41	+1	NW	3	0	2	41	39	0.04
Brussels ...	*	*	*	*	*	30.23	+0.41	41	41	0	W	3	0	*	42	40	0.12
Cape Gris Nez...	29.97	41	W	4	0	30.23	+0.39	45	44	+2	N	4	0	3	45	?	-
Paris ...	30.01	43	NW	1	m	30.26	+0.32	40	40	-1	Z	0	m	*	47	39	0.04
Brest ...	30.18	47	W	5	f	30.39	+0.20	46	45	0	N	5	0	5	48	34	-
Lorient ...	30.17	46	WNW	4	0	30.34	+0.20	48	48	+2	NNE	4	bc	4	?	43	-
Rochefort ...	30.21	47	WNW	7	f	30.34	+0.10	45	45	-3	NW	4	r	2	50	39	0.04
Belfort ...	30.23	38	SW	1	0	30.19	+0.22	39	38	0	SW	1	0	*	41	36	0.12
Lyons ...	30.07	38	SEW	1	r	30.21	+0.07	39	39	+7	WNW	3	0	*	42	?	0.43
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Perpignan ...	30.14	56	NW	4	0	30.12	-0.11	53	48	-3	NW	5	b	*	62	57	0.04
Biarritz ...	30.32	52	W	7	r	30.30	-0.06	52	51	0	WNW	4	f	2	55	50	0.04
Cornuana ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.44	52	WNW	5	bc	30.40	-0.08	52	51	+8	N	5	c	2	59	?	-

For Explanation of Columns, see p. 4.

1.588

(Explanation of Map)

Wind ——— Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —

\rightarrow = forces above 20; \rightarrow = forces 8 to 10;
 \rightarrow = forces 5 to 7; \rightarrow = forces 1 to 4.

⊙ = dead calm.

Sea Disturbance—where considerable is shewn thus.

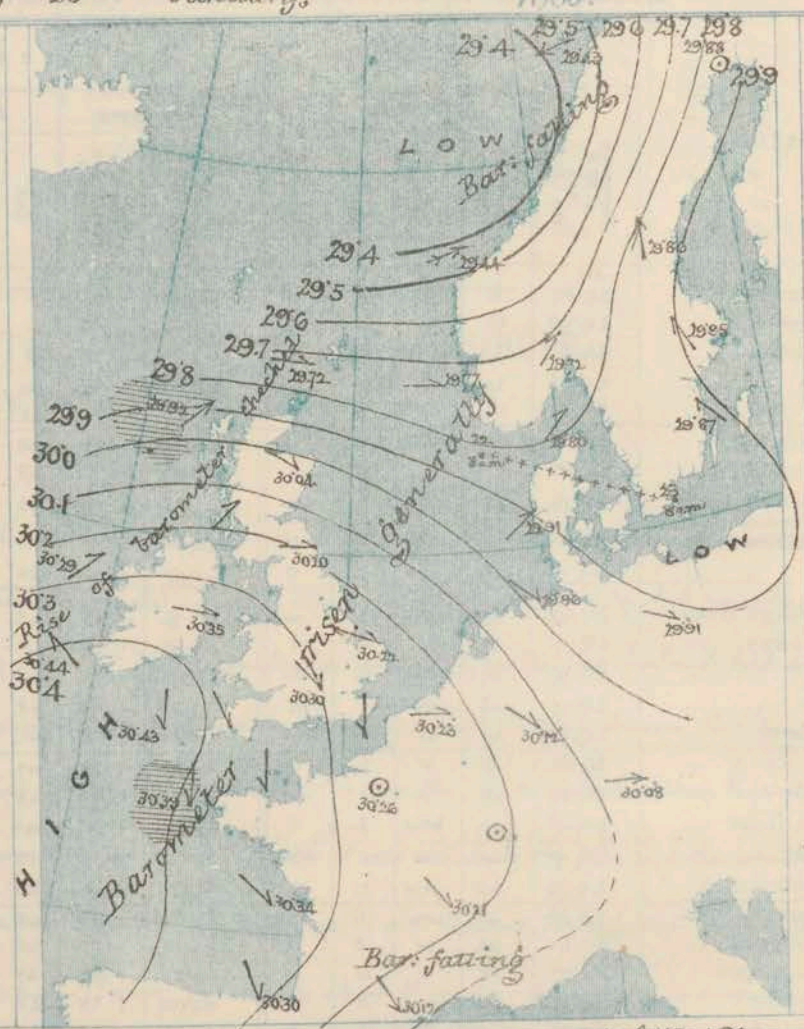
 = Rough = High

MEAN HEIGHT *of the* BAROMETER

at 8 a. m. for the month of January.

During the 15 Years 1871 — 1885

STATIONS.		MEAN READINGS.
	<i>ms.</i>	
Sumburgh Head	29	685
Stornoway	29	687
Wick	29	726
Nairn	29	752
Aberdeen	29	790
Leith	29	829
Shields	29	886
York	29	935
Loughborough	29	967
Ardrossan	29	840
Donaghadee	29	851
Holyhead	29	896
Liverpool	29	922
Parsonstown	29	856
Valencia	29	869
Roche's Point	29	894
Pembroke	29	926
Scilly	29	960
Jersey	30	010
Hurst Castle	29	997
Dover	30	017
LONDON	30	007
Oxford	29	997
Cambridge	29	962
Yarmouth	29	981



TEMPERATURE, & WEATHER at 8 A.M.,
with RAINFALL in PAST 24 HOURS.

Temperature— Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

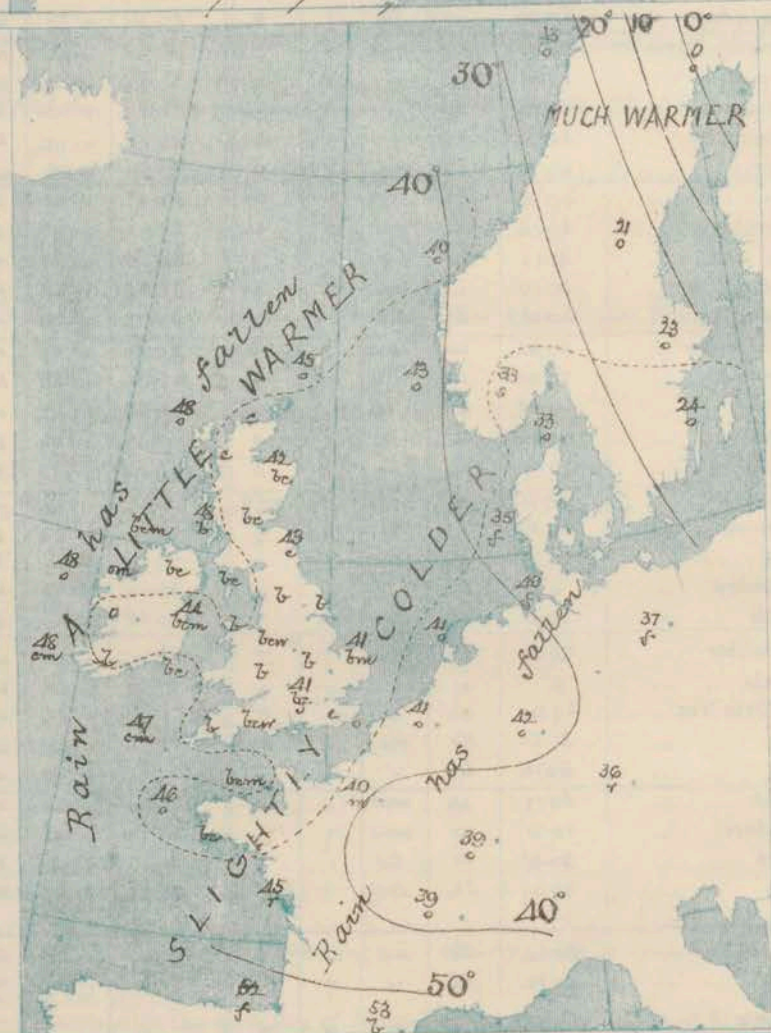
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 3 a.m.		
			Dry	Wet.	
Sumburgh Head	42·9	35·4	39·4	38·2	3·66
Stornoway.	43·0	34·2	39·0	37·8	5·17
Wick	42·2	33·2	37·9	36·4	1·97
Nairn	41·9	32·7	36·6	35·0	2·02
Aberdeen.	42·4	33·3	37·1	35·4	5·34
Leith	44·6	33·7	38·2	36·8	1·98
Shields	43·1	34·7	38·0	36·7	1·79
York.	43·2	33·1	36·6	35·9	1·88
Loughborough	43·5	32·9	36·5	35·5	2·08
Ardrossan	44·4	36·4	39·8	38·6	4·53
Dunaghaddee	44·4	36·3	39·9	39·1	5·03
Holyhead	45·9	39·0	41·7	40·3	3·49
Liverpool	43·9	35·6	38·7	37·1	2·23
Pursonstown	46·0	34·6	39·0	37·9	3·09
Valencia	49·8	40·5	44·3	43·3	6·79
Roche's Point	47·9	39·7	43·2	42·0	5·63
Pembroke	45·8	39·9	42·8	41·2	3·92
Scilly	49·1	43·3	46·5	45·0	3·93
Jersey	46·0	38·7	41·7	40·4	3·24
Harst Castle.	45·3	37·0	40·4	39·7	3·10
Dover	43·7	36·6	39·4	38·2	2·68
LONDON	44·8	34·4	37·9	36·8	2·20
Oxford	43·8	34·4	37·5	36·5	2·33
Cambridge	43·9	32·6	36·5	35·7	1·57
Yarmouth	41·9	34·5	37·7	36·9	2·06

NOTE - The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards, in an anticyclone lying off our southwest coasts.
 Lowest, 29.4 ins. and less, in a depression lying off the northwest of Norway. A secondary disturbance is lying over the southern part of the Baltic.
 Gradients slight in the south, but moderate elsewhere. Barometer rising excepting in the north of Scandinavia and east of France.

TEMPERATURE

Highest, 53° at Harpignan, 51° at Birmmth and Luton, 48° at Mullaghmore and Lorient, and 46° at Stornoway, Kairu, Ardrossan, Brimmler and Valencia.
 Lowest, 3° at Haparanda, 21° at Helsingfors, 23° at Rode and Stockholm, 24° at Wisby, 33° at Aarhus, and 34° at Copenhagen, and 35° at Leno.

WIND

SW^{ly} over the northern parts of our Islands, as well as on the eastern shore of the North Sea, with a strong breeze at Stornoway and a gale at Christiania.
 Moderate to strong from the SE and S^W over Sweden.
 Light or moderate from NW or N. over France and the south of our Islands.

WEATHER

Fair over the greater part of our Islands, but very cloudy on our extreme north and northwest coasts.
 B dull and unsettled at most of the Continental stations, with fog over North Germany, rain at Munich and Rochefort, and snow at Caen.
 Slight rain fell yesterday at many of our western and extreme northern stations.

SEA

Rather rough at Stornoway and Bont, moderate off the west of Norway as well as at the mouth of the English Channel, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometre appears to be still rising in all parts of the United Kingdom, but on our extreme northwest coast the wind has backed to the SW^{ly}, with an increase of cloud.

A new depression is therefore in all probability approaching from the Atlantic, but at present its size and intensity are unknown. The disturbance is scarcely likely to affect our southern coasts, but a decided increase of wind is probable in the northwest and north.

FORECASTS

For the 24 hours ending at NOON on 24th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ^{ly} and W ^{ly} winds, increasing in force; unsettled, some rain.
1	SCOTLAND EAST	SW ^{ly} and W ^{ly} winds, moderate; fair generally.
2	ENGLAND N.E.	W ^{ly} to SW ^{ly} winds, moderate; fine generally.
3	ENGLAND EAST	Same as No 5.
4	MIDLAND COUNTIES	Same as No 5.
5	ENGLAND SOUTH	N ^{ly} and NW ^{ly} winds, light; fine generally.


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	SW ^{ly} winds, increasing in force; fair to unsettled and some rain.
7	ENGLAND N.W.	Same as No 1.
8	ENGLAND S.W.	Same as No 5.
9	IRELAND NORTH	Same as No 6.
10	IRELAND SOUTH	Variable breezes, finally S ^{ly} ; fair to dull and unsettled.

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 ~~use~~ 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 ~~use~~ towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.55	44	43	WNW 2	T	3	Holyhead ...	30.00	44	44	WNW 3	0	3
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.75	42	47	W 5	0	4	Silly ...						
Aberdeen ...							Dungeness ...	29.69	46	45	WNW 3	e	2
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.53	47	47	WSW 3	0	3	Jersey ...	30.02	49	49	W 3	f	3
Mullaghmore ...							Rocheport ...						
Belmullet ...	30.02	49	49	W 3	0	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for Sunday morning showed that pressure varied from 30.3 ins. and more over the Spanish Peninsula and from 30.1 ins. and more over southern Europe generally, to 29.5 ins. and less in a complex depression which lay over Scandinavia and Denmark.

The gradients were moderate or slight everywhere, and were favourable for W. and NW. winds except over Sweden, Lapland and Finland, where they were variable.

The winds reported were consequently W. (with a tendency to veer) over the whole of western Europe and were of little strength; in Central Europe they were light and variable, in Finland light from the N. and in the West of Norway S. by E. The weather was dull and cloudy except in a few isolated localities; wet fog prevailed in the English and at the mouth of the Irish Channel as well as in Holland, while in several parts of France and Denmark rain was reported.

Temperature had again fallen fast over northern Europe and was very low over Lapland and Russia, while over the British Islands and France it was uniformly high for the time of year.

The lowest individual values at 8 a.m. were -15° at Naperanda and Ulleaborg, -11° at Moscow, -8° at Krasnoyarsk, 0° at Krasnodar, +14° at Krasnodar, 10° at Riga, 11° at St. Petersburg, 16° at Kharkov, 14° at Hermannstadt, and 27° at Vienna; at Rome and Pesaro the temperature was 29°.

The highest were 50° at Lausanne and Barcelona, 49° at Langunair, Algiers, Valencia and Silly, 47° at Brindisi and several of our western stations, 46° at Cagliari.

Later on the wind became NW. over the British Islands and France generally, and temperature gave way a little, but the weather improved.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD, FROM THE 15TH TO THE 21ST JANUARY 1888.

Throughout nearly the whole of this week anticyclonic conditions prevailed over the United Kingdom and North Sea. At first the central portion of this system lay over Denmark, the South of Scandinavia, the North Sea and Scotland, while gradients for E. winds prevailed over Ireland, England, France and the Bay of Biscay. The E. wind blew strongly in the Channel for some time and freshly in several other places. Temperature was low and frosts occurred nightly over the northern parts of the Kingdom, and occasionally in the South also.

After the 18th depressions began to advance over Lapland and northern Russia, and as these impinged on the eastern side of the anticyclonic system its centre took up a more western position, so that at 8 a.m. on Wednesday it covered only the northern and eastern parts of Great Britain and the western parts of the North Sea. Temperature became still lower in our Islands, but as the disturbance in the southwest disappeared the E. wind lulled somewhat.

The anticyclonic system now moved very slowly to the southward and reached central France late on the 19th, whence a ridge extended northwards over Great Britain and the Netherlands. The wind therefore veered slowly to the southward in the West, and mild rain set in over the South of Ireland during the succeeding night. During the 20th the barometer fell slowly all over the British Islands, and the S. wind spread, with a steady but decided rise of temperature, dull weather, rain in the southwest, and a very rainy appearance generally.

On the 21st a large, but not deep, depression moved northeastwards outside our northwestern coasts while a very shallow subsidiary system travelled across Ireland and England. Mild rainy weather became general, with wet fog in several places, but the tendency for a continuance of these mild SW. conditions was not of a decided character.

EXPLANATION OF 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. equally; 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 24th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force, (0 to 12.)		Reading at 82° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)			Max.	Min.		
	Inch.	°				Inch.	Inch.	"	"	°					"	°	Inch.	
SCANDINAVIA.																		
Haparanda ...	29.82	3	S	2	0	29.61	- 27	7	7	+ 4	S	6	5	*	9	- 6	0.24	
Hernösand ...	29.70	24	S	4	0	29.50	- 36	27	26	+ 6	S	8	0	*	27	12	0.12	
Stockholm ...	29.80	27	S	2	0	29.74	- 21	25	24	+ 2	SSW	2	3	*	28	19	0.04	
Wisby ...	29.87	26	SSW	6	3	29.82	- 05	33	32	+ 9	S	2	0	*	?	23	0.16	
Bodö ...	29.32	23	ESE	6	0	28.93	- 50	34	32	+ 11	SE	6	0	3	?	16	-	
Christiansund ...	29.50	40	SW	4	0	29.23	- 21	44	40	+ 4	WSW	9	0	6	45	32	0.32	
Skudesnaes ...	29.49	43	W	6	7	29.70	- 07	46	45	+ 3	W	6	0	5	?	43	-	
Christiania Fjord (Færdar)	29.74	36	WSW	3	0	29.86	- 16	37	36	+ 4	WSW	6	0	4	?	?	-	
Skagen (The Scaw)	29.82	39	W	3	0	29.69	- 11	41	40	+ 8	W	5	0	4	41	32	0.16	
Fanö ...	30.04	38	WSW	4	C	29.99	+ 08	38	37	+ 3	W	4	6	*	41	?	-	
Sumburgh Head	29.63	47	W	6	7	29.66	- 06	43	42	- 2	W	6	0	6	48	41	0.15	
Stornoway ...	29.84	50	W	7	0	29.95	+ 03	42	42	- 6	NW	6	0	4	50	41	0.12	
Wick ...	29.83	47	WSW	4	6c	29.93	+ 01	44	42	- 1	WSW	3	6c	3	50	40	-	
Nairn ...	29.88	50	SW	3	6c	29.97	- 06	46	43	- 2	W	2	0	1	53	44	0.02	
Aberdeen ...	29.97	49	SW	2	6c	30.01	- 03	47	45	+ 5	W	1	6c	1	51	41	-	
Leith ...	30.11	49	W	4	6c	30.04	- 08	50	48	+ 3	W	6	0	*	50	47	-	
Shields ...	30.20	46	WSW	4	C	30.18	- 02	49	47	+ 6	SW	3	0g	2	50	43	-	
Spurn Head ...	30.81	44	WSW	3	6c	30.27	+ 06	43	41	+ 2	WSW	5	6c	2	46	40	-	
York ...	30.31	45	W	2	6c	30.26	- 01	46	44	+ 7	W	3	0	*	49	38	-	
Loughborough	30.39	47	SW	1	0	30.38	+ 09	41	39	- 2	WSW	3	0	*	53	38	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.17	47	SSW	3	0	30.16	- 04	46	46	- 2	SSW	5	2	4	50	45	0.04	
Malin Head ...	30.18	46	W	4	6m	30.16	- 03	47	47	+ 1	WSW	3	0	3	50	46	0.06	
Mullaghmore ...	30.22	48	WSW	6	om	30.22	- 06	49	48	+ 2	SW	6	2	5	51	46	0.01	
Belinulet ...	30.24	48	WSW	8	0	30.24	- 05	49	49	+ 1	WSW	5	0	*	50	47	0.04	
Donaghadee ...	30.26	48	WSW	3	0	30.26	- 03	48	47	+ 6	W	4	6	2	49	41	-	
Barrow-in-Furness	30.32	42	SSE	3	C	30.26	- 02	43	43	0	SW	3	0	*	46	41	-	
Liverpool (Bidston)	30.36	47	SW	2	6c	30.36	+ 03	45	43	+ 3	SW	2	0	2	57	42	-	
Holyhead ...	30.38	44	SSW	4	6m	30.36	+ 01	45	44	+ 1	SW	4	0	4	49	43	-	
Parsonstown ...	30.36	47	Z	0	C	30.36	- 02	47	45	+ 3	Z	0	0	*	52	43	-	
Valencia ...	30.42	49	SSW	3	om	30.45	+ 01	50	49	+ 2	SSW	3	om	4	51	46	0.04	
Roche's Point ...	30.45	45	N	2	0	30.43	- 00	46	45	+ 6	WSW	4	0	4	49	40	-	
Pembroke ...	30.47	42	SSW	3	f	30.47	+ 05	44	44	- 1	SW	4	f	4	47	41	0.02	
Seilly ...	30.50	46	SW	1	Cf	30.52	+ 09	45	45	- 2	WSW	4	0	4	51	42	0.02	
Prawle Point ...	30.51	46	WSW	2	6	30.54	+ 15	47	47	+ 4	WSW	3	0g	2	55	39	0.01	
Jersey ...	30.53	46	N	2	6m	30.60	+ 23	43	42	- 4	WSW	2	om	2	50	35	0.01	
Hurst Castle ...	30.47	44	WSW	3	6m	30.50	+ 16	39	38	- 2	WSW	2	6m	1	50	35	0.01	
Dungeness ...	30.41	44	WSW	2	m	30.45	+ 21	42	41	0	W	4	6m	3	50	38	-	
London ...	30.45	44	WSW	1	6m	30.45	+ 15	39	37	- 2	WSW	2	0	*	51	38	-	
Oxford ...	30.46	42	NW	2	C	30.46	+ 13	37	37	- 5	W	4	6	*	54	35	-	
Cambridge ...	30.41	40	W	1	6	30.41	+ 12	41	39	+ 2	SW	1	0	*	52	34	-	
Yarmouth ...	30.34	43	W	2	6m	30.32	+ 10	41	39	0	WSW	4	6c	2	48	39	-	
Cuxhaven ...	30.17	38	W	3	f	30.20	+ 24	39	38	- 1	WSW	3	f	*	41	36	-	
Berlin ...	30.10	?	W	4	0	30.13	+ 22	40	39	+ 3	WSW	4	0	*	41	37	0.08	
Wiesbaden ...	*	*	*	*	*	30.46	+ 34	40	36	- 2	SW	1	0	*	46	37	-	
Munich ...	30.33	37	W	5	7	30.46	+ 38	37	37	+ 1	W	6	0	*	39	36	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	30.30	40	WSW	1	6c	30.25	+ 13	40	40	- 1	WSW	3	0	3	41	37	-	
Brussels ...	*	*	*	*	*	30.47	+ 24	35	35	- 6	WSW	4	0	*	44	35	-	
Cape Gris Nez ...	30.42	42	SW	1	6	30.46	+ 23	43	43	- 2	SW	4	0	?	46	41	-	
Paris ...	30.49	41	WSW	1	m	30.62	+ 36	35	35	- 5	SSW	3	f	*	43	34	-	
Brest ...	30.54	46	NE	4	0	30.59	+ 20	40	38	- 6	Z	0	0	3	53	33	-	
Lorient ...	30.50	48	ESE	2	0	30.63	+ 29	38	38	- 10	ESE	1	6	2	?	37	-	
Rochefort ...	30.49	47	NE	4	0	30.60	+ 26	39	38	- 6	ESE	4	6	2	50	34	-	
Belfort ...	30.32	41	SW	1	7	30.52	+ 33	30	29	- 9	SW	1	f	*	44	27	-	
Lyons ...	30.39	41	N	5	0	30.60	+ 39	35	35	- 4	E	1	f	*	43	33	-	
Nice ...	30.10	49	E	1	6c	30.28	+ 36	53	?	+ 13	E	3	6c	0	54	?	-	
Perpignan ...	30.21	50	NW	4	6	30.43	+ 31	44	43	- 9	SW	3	6	*	58	45	-	
Biarritz ...	30.40	50	NE	4	0	30.49	+ 19	46	44	- 6	E	4	m	2	54	43	-	
PENIN. S.																		
Corunna ...	*	*	*	*	*	30.32	- 08	48	46	- 4	NNE	5	6	2	57	46	-	
Lisbon ...	30.32	54	NW	7	6	30.32	- 08	48	46	- 4	NNE	5	6	2	57	46	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Tuesday, 24th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

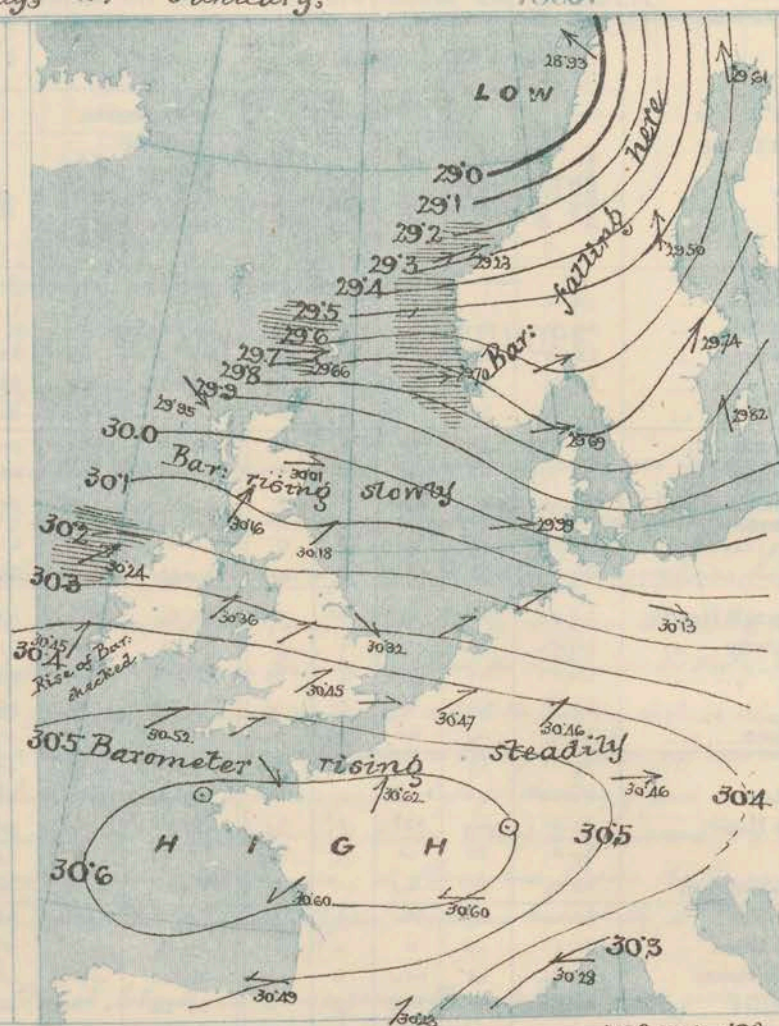
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — forces above 20 — forces 8 to 10,
 — forces 5 to 7 — forces 1 to 4,
 ○ = dead calm.

Sea Disturbance — where considerable is shown thus.
 — Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871 — 1885

STATIONS.	MEAN READINGS.
Sumburgh Head	29.885
Stornoway	29.637
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.820
Shields	29.850
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.925
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL. for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	2.84
Leith	44.6	33.7	38.2	36.8	1.98
Shields	43.1	34.7	38.0	36.7	1.73
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.52
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	2.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	48.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	48.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.88
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. and upwards, in an anticyclone lying over the northern parts of France and the Bay of Biscay.
Lowest, 29.0 ins. and less, in a depression lying off the northwest of Norway.

Gradients rather steep in the far north, but moderate elsewhere. Barometer falling over Scandinavia, the North Sea and east of England but rising elsewhere.

TEMPERATURE

Highest, 53° at Nice, 50° at Ljth and Valencia, 49° at Shields, Mullaghmore, and Belmullet, and 48° at Donaghadee and Lirbow.
Lowest, 7° at Haparanda, 25° at Stockholm, 27° at Helsingfors, 30° at Belfast, 33° at Nisby, and 34° at Oslo.

WIND

SW^{ly} or W^{ly} over our islands, the North Sea, Germany, the Netherlands; strong in force in the far north, with a gale at Christianund.
In Sweden, light or moderate from E. or NE. over the west and south of France.
A strong gale was experienced last night at Nise.

WEATHER

Fine in the East and south-east of England and the west and south of France.
Dull elsewhere, with fog over Central France, drizzling rain on our extreme northwest coast and snow at Haparanda.
Lunar halos were seen last night in many parts of the United Kingdom.

SEA

Rough off the Shetlands and west of Norway and rather rough at Mullaghmore, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the northwest of Norway has not only become deeper, but has been joined by a fresh disturbance the centre of which has skated over our extreme northwestern and northern coasts. In the rear of the latter system the barometer is now rising again at the majority of our W^m and N^m stations.

At Valencia, however, the rise has apparently ceased and on our extreme northwest coasts the winds are again backing, so that a fresh disturbance is probably advancing from the Atlantic. An increase of wind from the SW^{ly} is therefore likely in the northwest and north.

As the anticyclone over France shows no signs of giving way, fair weather will probably continue for a time at our southern and southeastern stations.

FORECASTS

For the 24 hours ending at NOON on 25th JANUARY 1888.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	W ^{ly} to SW ^{ly} winds, strong; dull, some rain.
2	SCOTLAND EAST	W ^{ly} to SW ^{ly} winds, moderate; fair to dull and some rain.
3	ENGLAND N.E.	-----D°-----D°-----D°-----
4	ENGLAND EAST	Same as No 5.
5	MIDLAND COUNTIES	Same as No 5.
6	ENGLAND SOUTH	W ^{ly} and SW ^{ly} winds, moderate; fair generally.

DISTRICTS.

FORECASTS.

7	SCOTLAND WEST	SW ^{ly} winds, strong; dull, some rain.
8	ENGLAND N.W.	SW ^{ly} winds, freshening; dull, some rain.
9	ENGLAND S.W.	-----D°-----D°-----D°-----
10	IRELAND NORTH	SW ^{ly} winds, moderate to strong, perhaps a gale; dull, some rain.
11	IRELAND SOUTH	-----D°-----D°-----D°-----

WARNINGS

The south cone was hoisted yesterday afternoon in districts 0, 6, 9, and part of 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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...	29.51	44	45	W 4	0 5	4	Holyhead ...	30.39	46	45	SSW 4	bc	3
Sumburgh Head ...	29.68	45	45	W 4	4	4	Valencia ...	30.43	51	49	S 3	bcm	3
Stornoway ...	29.74	50	50	SW 7	0	6	Scilly ...	30.47	49	48	NW 2	bcm	4
Aberdeen ...	29.94	48	45	SSW 1	bc	1	Dungeness ...	30.38	49	45	WNW 4	bc	2
Shields ...	30.30	50	46	SW 3	c	1	London ...	30.40	51	47	NW 2	bcm	*
Ardrossan ...	30.17	47	46	SSW 3	c	3	Yarmouth ...	30.32	48	46	WNW 3	b	2
Malin Head ...	30.18	50	47	WSW 4	0	3	Jersey ...	30.46	50	47	N 3	b	3
Mullaghmore ...	30.23	50	47	SSW 5	cm	4	Rochefort ...	30.41	49	47	N 4	b	2
Belmullet ...	30.25	48	48	SW 7	0	*							

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

The Continental Reports have not arrived.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 25th JANUARY 1888.
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 8.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
		In.	°				In.	In.	°	°	°					°	°	In.	
Haparanda ..		29.13	8	S	6	S	29.10	-.51	9	9	+ 2	SE	4	0	*	9	3	0.32	
Hernösand ...		29.16	28	S	2	C	29.31	-.19	34	31	+ 7	NW	6	C	*	19	19	0.20	
Stockholm ...		29.39	35	NW	4	0	29.56	-.18	31	28	+ 6	WSW	2	0	*	37	21	0.08	
Wishby ...		29.46	40	WNW	9	0	29.62	-.20	36	35	+ 3	WNW	6	0	*	43	27	0.08	
Bodö ...		28.71	33	SE	6	S	29.06	+ .13	34	32	0	WSW	8	m	5	34	28	—	
Christiansund...		29.47	39	W	9	C	29.49	+ .26	39	34	- 5	WNW	6	C	6	39	36	0.20	
Skudesnaes ...		29.92	43	WNW	4	0	29.71	+ .01	42	41	- 4	W	4	0	4	46	?	—	
Christiania Fjord (Færdar)		29.68	38	W	6	0	29.59	+ .03	36	35	- 1	SW	5	C	4	43	36	—	
Skagen (The Scaw)		29.76	40	WNW	8	0	29.69	-.00	39	34	- 1	WNW	3	C	5	41	39	—	
Fanö ...		29.10	37	WSW	4	bc	29.89	-.10	39	39	+ 1	WSW	6	m	*	41	37	0.04	
Sumburgh Head		29.83	45	WNW	4	C	29.76	+ .10	43	40	0	NW	4	bc	5	47	39	0.36	
Stornoway ...		29.94	46	W	4	0	29.85	-.10	39	39	- 3	SW	3	0	3	47	37	0.28	
Wick ...		29.95	44	SW	3	0	29.95	+ .02	38	37	- 6	SW	1	m	1	45	35	0.30	
Nairn ...		29.98	45	WSW	2	C	29.89	-.08	37	37	- 9	W	0	or	2	50	36	0.38	
Aberdeen...		30.07	46	W	0	d	29.91	-.10	40	39	- 7	WSW	1	f	1	50	40	0.03	
Leith ...		30.10	50	W	2	T	29.93	-.11	40	45	- 1	W	3	rm	*	52	48	0.16	
Shields ...		30.20	49	WSW	2	0	30.08	-.15	48	47	- 1	SW	1	a	2	51	45	—	
Spurn Head ...		30.29	43	W	2	C	30.11	-.16	44	43	+ 1	SW	5	bc	2	45	40	—	
York ...		30.35	48	W	1	0	30.14	-.12	47	44	+ 1	W	3	C	*	49	44	—	
Loughborough		30.35	45	WSW	3	C	30.24	-.14	43	42	+ 2	SW	5	C	*	48	40	—	
Ardrossan ...		30.12	47	SSW	4	d	29.95	-.21	47	46	+ 1	SW	4	T	3	48	45	0.15	
Malin Head ...		30.03	49	SW	4	opm	29.86	-.30	48	48	+ 1	SW	4	0	3	49	47	1.00	
Mullaghmore ...		30.17	51	SW	6	C	29.96	-.26	50	49	+ 1	SW	6	T	5	54	47	0.10	
Belmullet ...		30.18	49	SW	6	0	29.94	-.30	50	49	+ 1	WSW	8	0	*	50	48	0.29	
Donaghadee ...		30.21	51	WSW	2	0	30.02	-.24	50	48	+ 2	SW	6	C	4	52	48	—	
Barrow-in-Furness		30.27	44	SSW	4	0	30.11	-.15	40	43	0	SW	6	bc	*	45	42	—	
Liverpool (Bidston)		30.33	47	SW	4	C	30.18	-.18	45	42	0	SW	6	C	4	50	44	—	
Holyhead ...		30.34	45	SW	5	df	30.19	-.17	45	44	0	SW	5	om	5	47	44	—	
Parsonstown ...		30.31	53	SW	1	0	30.15	-.21	49	47	+ 2	SSW	1	C	*	53	45	—	
Valencia ...		30.26	49	S	5	od	30.21	-.24	50	49	0	SSW	6	om	6	51	48	0.07	
Roche's Point...		30.40	49	WSW	4	f	30.25	-.18	47	47	+ 1	WSW	4	Tf	4	49	46	—	
Pembroke ...		30.45	45	SSW	4	f	30.34	-.13	45	44	+ 1	SW	4	0	4	45	43	0.03	
Scilly ...		30.49	45	SW	4	of	30.41	-.11	46	44	+ 1	SW	5	0	5	47	43	—	
Prawle Point ...		30.53	44	WSW	4	0	30.44	-.10	44	43	- 3	WSW	5	og	4	45	40	0.01	
Jersey ...		30.39	44	NW	2	0	30.51	-.09	41	39	- 2	WSW	2	om	2	46	38	—	
Hurst Castle ...		30.52	44	WSW	4	bm	30.42	-.08	42	42	+ 3	WSW	6	og	3	44	36	—	
Dungeness ...		30.43	43	W	5	0	30.37	-.08	43	43	+ 1	W	5	ow	4	47	41	0.02	
London ...		30.45	43	W	3	0	30.38	-.07	41	41	+ 2	WSW	2	0	*	46	39	—	
Oxford ...		30.45	43	SW	4	0	30.36	-.10	41	40	+ 4	SW	3	0	*	48	37	—	
Cambridge ...		30.39	44	SW	1	0	30.28	-.13	43	42	+ 2	SW	2	0	*	47	39	—	
Yarmouth ...		30.35	42	WSW	3	C	30.23	-.09	43	40	+ 2	WSW	4	0	2	44	40	—	
Cuxhaven ...		30.17	40	WNW	4	T	30.12	-.08	41	41	+ 2	W	5	f	*	41	39	0.06	
Berlin ...		30.44	42	WNW	4	0	30.15	+ .02	41	40	+ 1	W	3	T	*	45	41	—	
Wiesbaden ...		*	*	*	*	*	30.47	+ .01	36	35	- 4	SW	4	0	*	45	36	—	
Munich ...		30.45	38	W	4	0	30.45	-.01	36	33	- 1	W	5	0	*	43	32	—	
The Helder ...		30.34	41	WSW	2	C	30.20	-.05	41	41	+ 1	SW	3	f	3	43	39	—	
Brussels ...		*	*	*	*	*	30.41	-.06	36	?	+ 1	SW	7	f	*	39	36	—	
Cape Gris Nez...		30.45	43	WSW	5	0	30.37	-.09	43	43	0	WSW	5	f	5	46	41	0.04	
Paris ...		30.56	36	S	1	m	30.54	-.08	29	29	- 6	SW	3	?	*	36	?	—	
Brest ...		30.61	41	W	0	0	30.52	-.07	43	41	+ 3	SW	4	0	5	52	36	—	
Lorient ...		30.61	44	W	0	0	30.54	-.09	35	35	- 3	SE	3	f	5	?	34	—	
Rochefort ...		30.61	41	ENE	4	0	30.59	-.01	34	33	- 5	E	3	m	2	50	30	—	
Belfort ...		30.35	41	WSW	1	0	30.50	-.02	29	28	- 1	WSW	1	f	*	54	26	—	
Lyons ...		30.66	34	NNE	1	f	30.59	-.01	30	30	- 5	N	3	f	*	41	29	—	
Nice ...		30.25	53	E	1	0	30.33	+ .05	52	46	- 1	W	0	0	*	68	50	—	
Perpignan ...		30.38	56	NW	4	bc	30.38	-.05	55	43	+ 11	W	3	0	*	67	50	—	
Biarritz ...		30.55	47	E	4	0	30.50	+ .01	39	37	- 7	SE	3	0	2	54	36	—	
Corunna ...		*	*	*	*	*													
Lisbon ...		30.36	56	NNE	3	0	30.41	+ .09	47	45	- 1	NNE	5	0	5	61	46	—	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Wednesday, 25th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

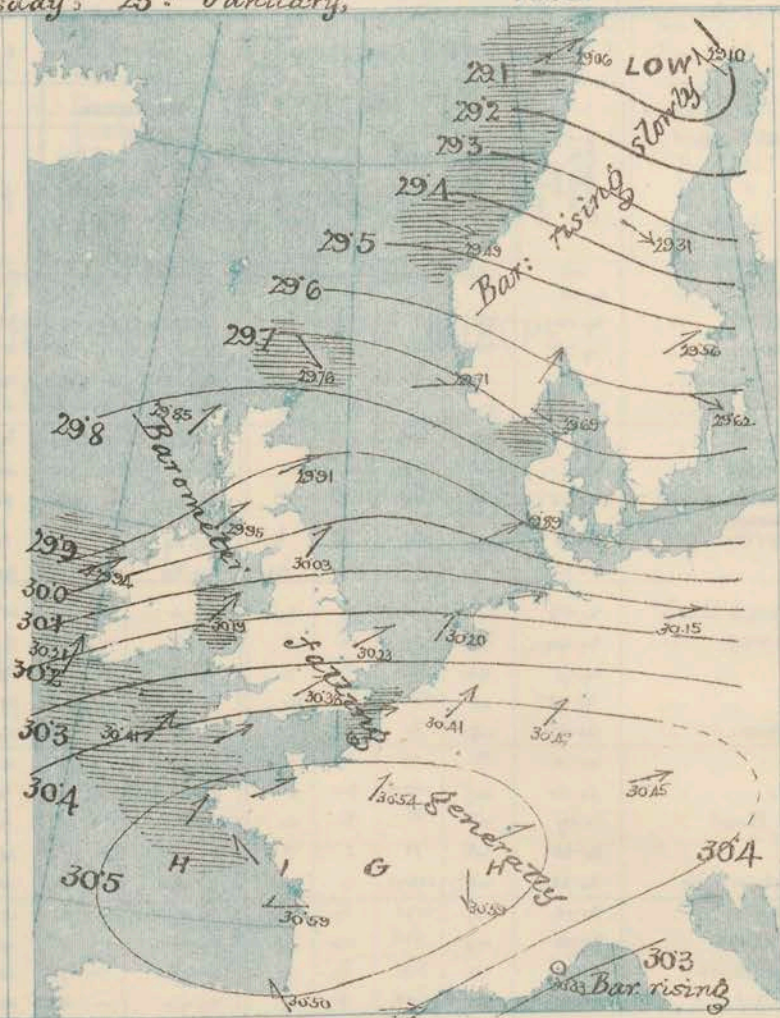
Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
 * → = forces above 10; → = forces 8 to 10;
 * → = forces 5 to 7; → = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance—where considerable is shown thus:
 ■ = Rough ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature—Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather is shown by Letters of the Beaufort Scale.
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL. for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
Sumburgh Head.	42.9	35.4	39.4	38.3	3.06
Stornoway.	43.0	34.2	39.0	37.8	5.17
Wick.	42.2	33.2	37.9	36.4	1.97
Nairn.	41.9	32.7	36.6	35.0	2.02
Aberdeen.	42.4	33.8	37.1	35.4	2.34
Leith.	44.6	33.7	38.2	36.8	1.98
Shields.	43.1	34.7	38.0	36.7	1.29
York.	43.2	33.1	36.8	35.9	1.88
Loughborough.	43.5	32.9	36.5	35.5	2.08
Ardrossan.	44.4	36.4	39.8	38.5	4.58
Donaghadee.	44.4	36.8	39.9	39.1	3.03
Holyhead.	45.9	39.0	41.7	40.3	3.19
Liverpool.	43.9	35.6	38.7	37.1	2.33
Parsonstown.	46.0	34.6	39.0	37.9	3.09
Valencia.	49.8	40.5	44.3	43.3	6.79
Roche's Point.	47.9	39.7	43.2	42.0	5.63
Pembroke.	45.8	39.9	42.8	41.2	3.92
Scilly.	49.1	43.3	46.5	45.0	3.93
Jersey.	46.0	38.7	41.7	40.4	3.24
Hurst Castle.	45.3	37.0	40.4	39.7	3.10
Dover.	43.7	36.6	39.4	38.2	2.68
LONDON.	44.8	34.4	37.9	36.8	2.20
Oxford.	43.8	34.4	37.5	36.5	2.33
Cambridge.	43.9	32.6	36.5	35.7	1.57
Yarmouth.	41.9	34.5	37.7	36.9	2.06

NOTE—The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.5 ins and upwards in a large anticyclone lying over France - Lowest 29.1 ins and less in a depression lying over the North of Scandinavia. Gradients moderate over our Islands, Scandinavia, and the North Sea. <i>Barometer falling generally most in the West.</i>
TEMPERATURE	Highest 55° at Perpignan, 52° at Aix, 50° at Donaghadee, Belmullet, Mullaghmore and Valencia, and 49° at Keith and Parsonstown. Lowest 9° at Haparanda, 29° at Paris and Belfort, 30° at Lyons, 31° at Stockholm, and 32° at Bodo, Kermisand and Rockfort.
WIND	SW over our Islands, the Netherlands and the North of France; strong in force on our extreme West and Northwest coasts. Fresh from the W. in Scandinavia, Denmark, and Germany. Variable over Central and Southern France; light E. in the West of France.
WEATHER	Fine in Spain and the South of France as well as in the East of England; fair at many of the Scandinavian stations. Dull elsewhere, with rain in Ireland and Scotland, and fog or mist over Central France. A lunar halo was seen last night in London and at Aberdeen.
SEA	Rough at Christiansund and Valencia, and rather rough in the extreme southwest, west, and northwest, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the North of Scandinavia is travelling away in a northeasterly direction - but a new disturbance is approaching our extreme western coasts.

The latter system will probably move northeastward, and occasion a considerable increase of wind in the West and North generally. The rainy weather over Ireland and Scotland is likely to extend over the greater part of England.

FORECASTS

For the 24 hours ending at NOON on 26th January 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	SW winds, increasing in force; dull, some rain.	6 SCOTLAND WEST	Same as N° 0.
2 SCOTLAND EAST	SW and W winds, freshening; unsettled, some rain.	7 ENGLAND N. W.	SW strong winds or gales; dull, some rain.
3 ENGLAND N. E.	-----D°-----D°-----D°-----	8 ENGLAND S. W.	SW winds, fresh or strong; dull, some rain.
4 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	Same as N° 7.
5 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	Same as N° 7.
6 ENGLAND SOUTH	SW and W winds, moderate or fresh; cloudy generally, with a little rain in places.	WARNINGS	
		The SOUTH CONE was hoisted last evening in district 7 and part of 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 sweep 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 sweep towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wat.	Wind.	Wes.	Sea.		Bar.	Dry.	Wat.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.81	44	41	NNW	6	c	4	Holyhead ...	30.36	45	45	SW	4	m	4
Sumburgh Head ...	29.82	44	42	NNW	5	c	6	Valencia ...	30.38	51	51	SW	5	om	5
Stornoway ...	29.00	47	46	W	4	o	2	Scilly ...	30.51	47	46	WSW	5	om	5
Aberdeen ...	30.08	48	45	W	1	o	1	Dungeness ...	30.51	44	43	W	4	c	3
Shields ...	30.22	50	48	SW	2	o	2	London ...	30.46	46	43	WSW	3	c	3
Ardrossan ...	30.07	47	47	SSW	4	r	3	Yarmouth ...	30.35	44	42	NNW	4	om	2
Malin Head ...	30.16	49	49	SW	4	o	3	Jersey ...	30.59	45	43	WNW	3	o	3
Mullaghmore ...	30.19	53	51	SSW	6	cg	5	Rochefort ...	30.60	42	41	ENE	5	m	2
Belmullet ...	30.22	49	40	WSW	6	od	4								

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

The reports for yesterday showed a further increase of pressure over western, central and eastern Europe as well as the Mediterranean, and a decrease off the northwest of Norway, so that at 8 a.m. readings varied from 30.6 ins. and more in an anticyclone over France, and from 30.1 ins. and more in another high pressure area over Russia, to 29.0 ins. in a depression the centre of which lay a little to the southwest of Bodø. S. to W. gales and strong winds prevailed over Finland, Sweden and Norway, and a strong NW. wind in the extreme North and northwest of the British Islands, in all of which regions the weather was cloudy and showery. Over England and the North of France, WSW. breezes and fair mild weather was prevalent (with much cirrus and high stratus cloud about), while in the southern part of France the wind had become NE. and the weather fine and bright. Temperature had fallen considerably over Russia, Hungary and eastern Germany, and to a smaller extent over France and some parts of the United Kingdom, but had risen in Sweden and Norway. Hard frosts prevailed over eastern Europe, and slight frost at several central stations, but in the northwest the air was still very mild, and damp.

The lowest individual temperature observed at 8 a.m. were -26° F. at Archangel, -13° at Kiew and Moscow, -4° at Nicolaïef, -3° at Kharkov, -2° at St. Petersburg, 0° at Kuopio and Warsaw, +3° at Uleaborg, 5° at Odessa and Mermel, 12° at Romborg, 18° at Hango, 20° at New Zakwasser, 25° at Stockholm and 30° at Belfort, the frost had disappeared from central Algiers. The highest values were 56° at Malta, la Galle, and Algiers, 54° at Oporto, 53° at Barcelona, 51° at Genoa, 50° at Valencia, 49° at Belmullet, Mullaghmore and Shields, and 47° at Aberdeen, Parsonstown and Prawn Point.

Later on the depression in the extreme northwest travelled away to the Arctic Sea, but as a new one began to approach Ireland SW. winds and mild weather still continued over Ireland, England and no important change occurred in France.

GENERAL REMARKS ON THE WEATHER FOR THE 24 HOURS ENDING AT 8 a.m. ON JANUARY 24. 1888.

The reports for Monday morning showed that while the barometer had risen quickly over the British Islands, France and the North Sea, and less decidedly over the Baltic and northern half of Russia, it had fallen over Scandinavia, on the one hand and the Mediterranean on the other.

Readings varied from between 30.2 ins. and 30.5 ins. over Ireland, England, France and the Bay of Biscay, and from 30.0 ins. and more over the Baltic and Gulf of Finland to rather below 29.4 ins. in a depression lying off the West of Norway, and to 29.7 ins. over Hungary and 29.8 ins. over the Gulf of Genoa. Thus while S. winds prevailed over Sweden and the Gulf of Bothnia, and SW. to W. over the northern parts of the British Islands and North Sea, the wind over the Channel and France was NW., while that in northern Italy was NE.

The weather was rather showery in the West and North of the British Islands, but very fine over England, cloudy foggy or hazy on the Continent, with slight rain locally. Temperature had risen quickly in the far North, fallen over western Russia, and readings ranged from rather below zero F. over Finland and northern Russia to 50° and more over the greater part of the Mediterranean, Portugal and the southwest of France. Over central Algeria frost prevailed.

The lowest individual values were -2° F. at Archangel, Kuopio and Hango, +2° at Uleaborg and Helsingfors, 3° at Naparanda, 4° at St. Petersburg, 9° at Riga and Kiew, 11° at Kharkov, 13° at Mermel, 19° at New Zakwasser, 21° at Nernösund and 30° at Layhauat (Algiers); the highest were 55° at Algiers, 53° at Malta and Genoa, 52° at Palermo, Cagliari, Lisbon and Barcelona, 50° at several stations in the South and West of France, 48° at Valencia, Belmullet and Stornoway and 41° in London.

Later on the high pressure area advanced eastwards over France, and temperature fell decidedly in that country, while the depression in the northwest grew deeper and moved slowly to the northeastwards.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday 26th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Inch.	Inch.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.20	4	Z	0	0	29.33	+ 23	2	2	- 4	Z	0	0	*	12	?	0.08		
Hernösand ...	29.36	29	NW	2	0	29.43	+ 12	24	22	- 10	W	4	b	*	36	?	-		
Stockholm ...	29.54	27	W	2	3	29.53	- 03	19	19	- 12	WSW	2	bc	*	36	?	-		
Wisby ...	29.56	32	E	2	0	29.52	- 10	32	32	- 4	N	2	b	*	36	30	0.28		
Bodö ...	29.26	31	N	4	C	29.42	+ 36	28	26	- 6	NNE	4	C	2	34	25	-		
Christiansund...	29.54	36	WSW	6	C	29.53	+ 04	33	33	- 6	ESE	3	S	4	?	30	-		
Skudesnaes ...	29.65	39	Z	0	0	29.45	- 26	36	35	- 6	N	2	0	3	43	?	-		
Christiania Fjord (Fjorder)	29.62	35	WNW	2	C	29.47	- 12	31	29	- 5	N	4	C	2	39	27	-		
Skagen (The Seaw)	29.66	37	NW	2	C	29.37	- 32	35	35	- 4	S	3	0	2	41	34	-		
Fanö ...	29.74	37	SW	2	T	29.41	- 48	38	38	- 1	WSW	4	C	*	41	37	0.08		
BRITISH ISLANDS.																			
Sumburgh Head	29.60	42	SE	1	0	29.66	- 10	37	35	- 6	N	1	0	4	43	36	0.07		
Stornoway ...	29.40	42	W	7	TSW	29.89	+ 04	39	39	0	NW	7	0	6	45	33	0.55		
Wick ...	29.46	42	SW	3	C	29.80	- 15	37	36	- 1	WNW	4	TSW	1	42	34	0.27		
Nairn ...	29.51	41	SW	2	b	29.80	- 09	40	39	+ 3	WNW	4	T	3	46	35	0.39		
Aberdeen...	29.56	44	SW	4	b	29.68	- 23	40	38	0	WNW	6	C	6	46	36	0.24		
Leith ...	29.72	47	W	4	b	29.74	- 19	42	39	- 7	NW	3	bc	*	51	37	0.53		
Shields ...	29.76	50	SW	4	bc	29.63	- 40	42	39	- 6	NW	4	bc	2	50	38	0.08		
Spurn Head ...	29.99	43	SW	5	bc	29.62	- 49	44	42	0	NW	6	bcu	2	46	40	-		
York ...	29.94	48	S	4	0	29.69	- 45	42	39	- 5	NW	5	b	*	49	40	-		
Loughborough	30.06	45	SW	5	0	29.75	- 49	43	42	0	WNW	6	oqpp	*	47	41	0.03		
GERMANY.																			
Ardrossan ...	29.73	47	SW	4	C	29.88	- 07	43	42	- 4	NW	5	C	4	51	40	0.28		
Malin Head ...	29.74	42	WSW	5	bc	30.10	+ 24	42	38	- 6	NW	7	bcq	7	50	42	0.54		
Mullaghmore ...	29.83	45	WSW	8	bq	30.24	+ 28	43	39	- 7	NW	8	bcq	7	51	41	0.27		
Belmullet ...	29.87	46	W	10	Cqpp	30.38	+ 44	44	40	- 6	WNW	7	b	*	50	40	0.13		
Donaghadee ...	29.85	46	W	4	C	29.97	- 05	44	41	- 6	W	9	bq	7	53	40	0.06		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	29.91	45	WSW	5	C	29.75	- 36	42	41	- 1	NW	9	cp	*	45	41	0.10		
Liverpool (Bidston)	29.97	48	SW	5	0	29.81	- 37	45	41	0	WNW	9	0	6	48	42	0.05		
Holyhead ...	30.01	47	SW	6	C	30.00	- 19	44	42	- 1	WNW	9	Cqpm	7	47	43	0.02		
Parsonstown ...	30.04	43	SSW	2	bc	30.30	+ 15	40	36	- 9	WNW	2	b	*	52	30	0.07		
Valencia ...	30.21	47	W	5	Cq	30.46	+ 25	46	45	- 4	WNW	6	bq	6	52	44	0.04		
ROUMANIA.																			
Roche's Point...	30.16	47	W	3	b	30.31	+ 06	44	40	- 3	WNW	7	b	5	50	42	0.01		
Pembroke ...	30.14	46	SW	6	T	30.18	- 16	44	41	- 1	NW	8	b	6	47	44	0.03		
Scilly ...	30.30	48	WSW	6	0	30.34	- 07	47	43	+ 1	NW	8	C	6	49	44	0.01		
Prawle Point ...	30.30	45	W	5	0	30.21	- 23	44	43	0	WNW	7	C	6	46	41	0.04		
Jersey ...	30.37	46	W	3	om	30.23	- 28	47	43	+ 6	W	6	cm	5	47	40	0.02		
NETHERLANDS.																			
Hurst Castle ...	30.25	44	WSW	6	bc	30.00	- 42	44	42	+ 2	WNW	7	b	6	44	34	-		
Dungeness ...	30.21	44	W	6	bc	29.82	- 54	43	41	0	W	6	Cu	5	44	41	0.01		
London ...	30.19	42	WSW	4	C	29.85	- 53	44	41	+ 3	WNW	6	bc	*	47	41	-		
Oxford ...	30.12	43	SW	4	0	29.88	- 48	45	41	+ 4	W	6	bcu	*	46	40	0.05		
Cambridge ...	30.12	42	SW	3	C	29.74	- 54	45	42	+ 2	WNW	5	0	*	46	39	-		
FRANCE & NETHERLANDS.																			
Yarmouth ...	30.07	43	SW	4	bc	29.57	- 66	43	42	0	WNW	6	Cqg	4	46	40	-		
Cuxhaven ...	30.01	41	W	7	T	29.62	- 50	41	41	0	SW	5	T	*	42	39	0.62		
Berlin ...	29.97	42	W	5	0	29.89	- 26	39	37	- 2	W	4	0	*	43	39	0.12		
Wiesbaden ...	*	*	*	*	*	29.96	- 51	35	32	- 1	SW	3	0	*	39	30	-		
Munich ...	30.34	38	W	7	C	29.97	- 48	32	29	- 4	SW	2	b	*	46	28	-		
FRANCE & NETHERLANDS.																			
The Helder ...	30.00	41	SW	5	bc	29.49	- 71	40	39	- 1	SW	5	0	4	43	?	0.16		
Brussels ...	*	*	*	*	*	29.83	- 58	40	38	+ 4	WSW	7	0	*	40	32	0.04		
Cape Gris Nez...	30.26	42	W	7	0	29.88	- 49	44	41	+ 1	WNW	9	0	7	46	41	-		
Paris ...	30.41	?	SW	3	m	30.14	- 40	36	35	+ 7	WSW	3	b	*	?	?	-		
Brest ...	30.43	46	W	5	0	30.37	- 15	43	40	0	WNW	7	b	4	52	36	-		
FRANCE & NETHERLANDS.																			
Lorient ...	30.45	46	WSW	4	0	30.41	- 13	44	41	+ 9	WNW	5	b	4	?	34	-		
Rochefort ...	30.53	34	WNW	3	f	30.45	- 14	41	41	+ 7	SW	4	m	2	?	?	-		
Belfort ...	30.33	33	W	1	b	30.20	- 30	29	28	0	W	3	0	*	36	21	-		
Lyons ...	30.52	?	W	1	f	30.39	- 20	26	26	- 4	N	3	f	*	32	23	-		
Nice ...	30.32	48	Z	0	f	30.21	- 12	41	40	- 11	E	3	C	2	55	39	-		
FRANCE & NETHERLANDS.																			
Perpignan ...	30.34	57	SW	3	b	30.25	- 13	54	51	- 1	W	4	b	*	72	50	-		
Biarritz ...	30.47	45	NW	4	m	30.48	- 02	46	44	+ 7	N	4	0	2	48	41	-		
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	30.38	55	NNE	5	b	30.43	+ 02	46	42	- 1	NNE	5	b	2	59	45	-		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Thursday, 26th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10, → = forces 8 to 10,
→ = forces 5 to 7, → = forces 1 to 4,
⊙ = dead calm.

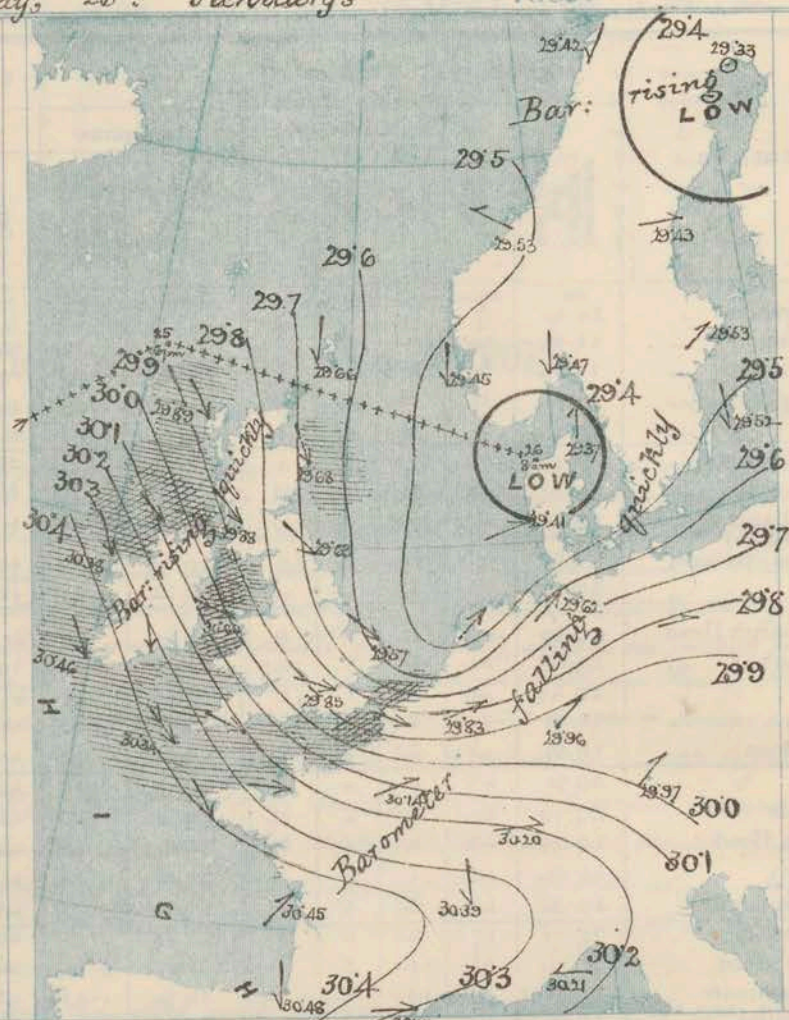
Sea Disturbance — where considerable is shown thus.

— Rough, — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.856
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.860
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.902
Yarmouth	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

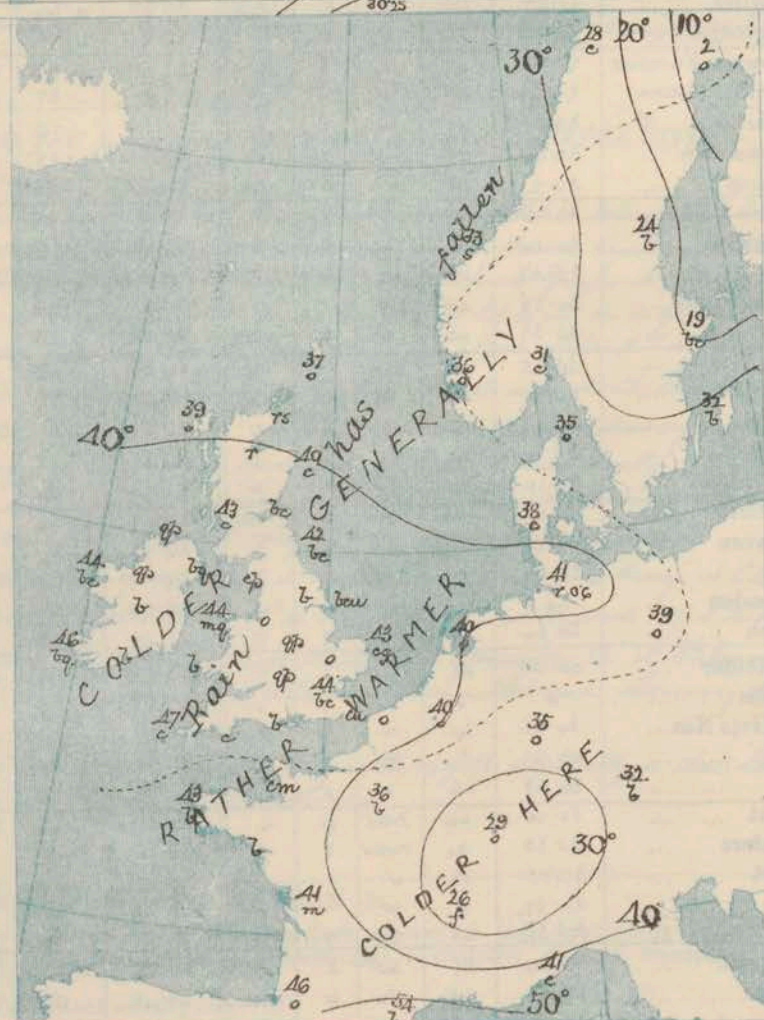
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	3.34
Leith	44.6	33.7	38.2	36.8	1.98
Shields	33.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	40.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.48
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards, in a large anticyclone extending from Portugal and the north of Spain to the southwest of Ireland.
 Lowest, 29.4 ins: and less, in a depression lying over the north of Sweden and also in another disturbance over the N. of Denmark.
 Gradients steep over our Islands, the Netherlands, and north of France. Barometer rising quickly north and northwest, falling elsewhere.

TEMPERATURE

Highest, 54° at Perpignan, 47° at Scilly, and Jersey, and 46° at Valencia, Biarritz and Lisbon.
 Lowest, 2° at Haparanda, 19° at Stockholm, 24° at Helsingfors, 26° at Lyons, 29° at Belfast, and 31° at Tander.

WIND

Strong to a gale from W. or NW. over our Islands and the north of France.
 Moderate SW^y over Germany, the Netherlands, the south of Denmark, and Central France.
 Light NE^y in Norway, and SW^y over the greater part of Sweden.

WEATHER

Fine over the greater part of Ireland and England as well as in Sweden.
 Showery in the northern parts of Ireland and Scotland, foggy or misty at several of the French stations.
 Since yesterday morning rain has fallen over the greater part of the United Kingdom.

SEA

High on our northwest coasts and rough in the west, south, and extreme north, generally, but moderate in the east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our western coasts yesterday morning subsequently moved northeastwards to the neighbourhood of the Hebrides. In the course of the night, however, it has travelled quickly across the North Sea to the north of Denmark, while a secondary disturbance which was forming off the East of Scotland last evening has moved southeastwards to the north of Holland.

Both systems will probably continue to travel away in an easterly or a southeasterly direction and the gales on our coasts may be expected to subside gradually. A decided fall of temperature is probable over England.

FORECASTS

For the 24 hours ending at NOON on 27th JANUARY 1888.

DISTRICTS.

FORECASTS.

†0	SCOTLAND NORTH	NW ^y and N ^y strong winds or gales; squally, some cold showers
†1	SCOTLAND EAST	-----D°-----D°-----D°-----
†2	ENGLAND N.E.	NW ^y strong winds or gales; squally, some showers.
†3	ENGLAND EAST	-----D°-----D°-----D°-----
4	MIDLAND COUNTIES	Same as 705
†5	ENGLAND SOUTH	W ^y to NW ^y strong winds and gales; squally, some showers. Colder.

DISTRICTS.

FORECASTS.

†6	SCOTLAND WEST	Same as 702
†7	ENGLAND N.W.	NW ^y gales, moderating gradually; squally, some showers.
†8	ENGLAND S.W.	-----D°-----D°-----D°-----
†9	IRELAND NORTH	-----D°-----D°-----D°-----
†10	IRELAND SOUTH	NW ^y winds, strong; fair generally, but some showers.
WARNINGS		The S. cone was hoisted or re-hoisted yesterday in all districts excepting 7 and part of 10, where the signals were previously flying.

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 sweep 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 sweep towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wet.	Sea.		Bar.	Ther.	Wet.	Wind.	Wet.	Sea.
Skutumpah ...	29.74	42	40	W 2	0	4	Holyhead ...	30.08	47	46	SW 7	om q	6
Sumburgh Head ...	29.73	41	40	W 0	0	4	Valencia ...	30.19	51	47	W 5	em	5
Stornoway ...	29.49	42	42	SE 6	7	5	Seilly ...	30.34	48	46	WSW 6	0	5
Aberdeen ...	29.77	43	42	SE 4	7	2	Dungeness ...	30.27	44	42	W 6	c	5
Shields ...	29.90	47	46	SSW 2	7	2	London ...	30.28	47	43	SW 5	c	*
Ardrossan ...	29.80	48	47	SW 5	c	4	Yarmouth ...	30.15	46	43	WSW 4	bc	3
Malin Head ...	29.80	47	44	WSW 5	b	4	Jersey ...	30.45	42	40	SW 2	0	2
Mullaghmore ...	29.90	49	45	SW 7	bcn	6	Rochefort ...	30.56	34	34	NE 4	f	2
Belmullet ...	29.93	49	44	W 10	c/p	*							

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

The Continental Information for today will appear in tomorrow's Report.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 27th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.42	-2	2	0	bc	29.39	+0.6	4	4	+2	2	0	18	*	9	-4	0.04	
Hernösand ...	29.50	15	2	0	b	29.54	+1.1	2	2	-22	2	0	b	*	30	?	-	
Stockholm ...	29.52	18	2	0	b	29.52	-0.1	10	9	-9	2	0	b	*	28	?	-	
Wisby ...	29.47	30	NNE	2	b	29.51	-0.1	27	?	-5	N	6	b	*	37	27	-	
Bodö ...	29.52	28	NE	4	c	29.55	+1.3	29	27	+1	WNW	4	s	2	29	25	-	
Christiansund...	29.65	32	WNW	6	c	29.62	+0.9	26	25	-7	SSE	2	c	4	34	23	0.32	
Skudesnaes ...	29.74	35	WNW	6	b	29.65	+2.0	29	28	-7	NW	6	s	4	?	28	-	
Christiania Fjord (Ferder)	29.61	29	N	3	b	29.56	+0.9	26	25	-5	N	2	bc	1	?	23	-	
Skagen (The Scaw)	29.61	32	NE	2	b	29.57	+2.0	28	27	-7	N	1	b	1	36	28	0.12	
Fanö ...	29.69	32	WNW	6	c	29.75	+3.4	33	32	-5	NW	4	b	*	39	30	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.92	34	N	4	bcsp	29.81	+1.5	24	24	-13	N	6	osp	6	39	23	0.02	
Stornoway ...	30.15	37	NW	6	resp	30.13	+2.4	36	35	-3	N	7	o	5	42	32	0.35	
Wick ...	30.03	34	NW	3	bc	29.96	+1.6	30	30	-7	N	8	s	2	45	30	0.13	
Nairn ...	30.11	35	WNW	3	b	30.06	+2.6	34	33	-6	W	3	csp	2	41	31	0.14	
Aberdeen...	30.04	36	WNW	6	cqj	30.00	+3.2	34	32	-6	NW	4	b	5	42	33	0.08	
Leith ...	30.12	38	NW	4	b	30.12	+3.8	34	33	-8	NW	1	b	*	45	33	-	
Shields ...	30.07	40	WNW	4	b	30.11	+4.8	38	31	-9	SW	2	bm	2	45	31	-	
Spurn Head ...	30.04	43	WNW	6	b	30.15	+5.3	35	34	-9	WNW	5	bc	3	45	34	-	
York ...	30.10	40	N	5	b	30.17	+4.8	38	31	-9	W	2	b	*	46	30	-	
Loughborough	30.19	39	NW	5	b	30.24	+4.9	35	34	-8	W	2	b	*	46	33	0.01	
GERMANY.																		
Ardrossan ...	30.21	41	NW	4	bqjp	30.19	+3.1	39	39	-4	NW	3	b	2	44	35	-	
Malin Head ...	30.31	41	NW	4	b	30.26	+1.6	42	41	0	NW	4	bcqjp	4	42	34	0.03	
Mullaghmore ...	30.44	42	NW	6	bcqjp	30.38	+1.4	41	40	-2	WNW	5	bc	4	45	41	0.08	
Belmullet ...	30.51	44	N	3	b	30.41	+0.3	44	42	0	WNW	2	o	*	46	41	0.04	
Donaghadee ...	30.33	40	WNW	7	o	30.26	+2.9	39	39	-5	WNW	4	o	3	45	37	0.04	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.21	40	WNW	6	b	30.22	+4.7	39	37	-3	NW	4	bc	*	44	37	0.08	
Liverpool (Bidston)	30.28	41	WNW	6	b	30.26	+4.5	39	38	-6	W	5	c	4	45	37	-	
Holyhead ...	30.33	43	NW	8	cqj	30.32	+3.2	41	40	-3	WNW	5	cqj	5	45	40	-	
Parsonstown ...	30.50	41	2	0	bc	30.43	+1.3	35	35	-5	2	o	c	*	47	33	-	
Valencia ...	30.60	47	WNW	2	o	30.48	+0.2	45	43	-1	2	o	om	1	49	41	-	
PENIN. SULA.																		
Roche's Point...	30.54	45	WNW	5	bc	30.48	+1.7	43	41	-1	WNW	3	o	3	46	43	-	
Pembroke ...	30.42	44	WNW	6	b	30.41	+2.3	43	41	-1	NW	4	bc	4	45	41	-	
Scilly ...	30.50	47	WNW	7	c	30.48	+1.4	47	44	0	WNW	5	o	5	48	45	0.01	
Prawle Point ...	30.45	40	WNW	4	b	30.44	+2.3	38	37	-6	W	3	b	2	48	34	-	
Jersey ...	30.43	45	NW	5	b	30.43	+2.0	43	39	-4	NW	4	bc	3	49	41	-	
GERMANY.																		
Hurst Castle ...	30.30	43	NW	6	b	30.34	+3.4	36	35	-8	WNW	3	b	3	47	34	-	
Dungeness ...	30.10	44	WNW	7	c	30.23	+4.0	32	31	-11	NW	4	b	3	49	32	-	
London ...	30.18	42	NW	6	bqj	30.27	+4.2	35	33	-9	NW	2	b	*	47	35	-	
Oxford ...	30.16	39	NW	5	b	30.30	+4.2	38	32	-12	W	3	bv	*	47	33	-	
Cambridge ...	30.14	41	WNW	4	b	30.22	+4.8	33	32	-12	WNW	1	b	*	49	31	-	
FRANCE & NETHERLANDS.																		
Yarmouth ...	29.99	41	NW	6	c	30.13	+5.6	33	32	-10	NW	4	b	4	44	31	0.02	
Cuxhaven ...	29.43	35	N	5	o	29.84	+2.2	34	33	-7	N	4	b	*	?	33	0.44	
Berlin ...	29.32	37	SW	5	r	29.73	-1.6	33	32	-6	NW	4	o	*	43	34	0.32	
Wiesbaden ...	*	*	*	*	*	29.97	+0.1	36	35	+1	NW	4	o	*	41	34	0.20	
Munich ...	29.84	37	W	8	c	29.91	-0.6	33	31	+1	W	7	o	*	?	32	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	29.83	40	WNW	8	o	30.01	+5.2	38	36	-2	WNW	5	bc	4	41	37	0.04	
Brussels ...	*	*	*	*	*	30.12	+2.9	38	33	-7	WNW	4	s	*	45	33	0.32	
Cape Gris Nez...	30.08	44	NW	8	bc	30.21	+3.3	37	36	-7	WNW	7	b	5	48	36	0.04	
Paris ...	30.16	44	NW	5	c	30.30	+1.6	36	36	0	NW	3	b	*	45	35	-	
Brest ...	30.51	45	WNW	5	o	30.52	+1.5	43	42	0	NW	5	o	5	52	36	-	
FRANCE & NETHERLANDS.																		
Lorient ...	30.53	44	NW	4	bc	30.50	+0.9	41	40	-3	N	3	bc	4	?	39	-	
Rochefort ...	30.50	45	NW	5	b	30.52	+0.7	42	41	+1	NW	5	b	2	48	36	0.04	
Belfort ...	30.14	37	W	4	o	30.16	-0.4	34	33	+5	NW	1	o	*	?	28	0.16	
Lyons ...	30.38	37	WNW	1	o	30.35	-0.4	35	32	+9	WNW	4	c	*	40	34	-	
Nice ...	29.95	44	E	1	b	29.93	-2.8	40	36	-1	E	3	b	0	52	36	-	
FRANCE & NETHERLANDS.																		
Perpignan ...	29.33	49	NW	7	b	30.32	+0.7	46	38	-8	NW	8	c	*	58	44	-	
Biarritz ...	30.54	46	E	3	o	30.53	+0.5	44	42	-2	ESE	4	o	2	50	43	0.04	
PENIN. SULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.85	53	N	5	b	30.84	-0.9	44	41	-2	NNE	4	b	2	59	41	-	

WEATHER CHARTS

for 8 a.m. on

Friday, 27th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 7; → = forces 8 to 10;
 → = forces 5 to 7; → = forces 1 to 4;
 ○ = dead calm.

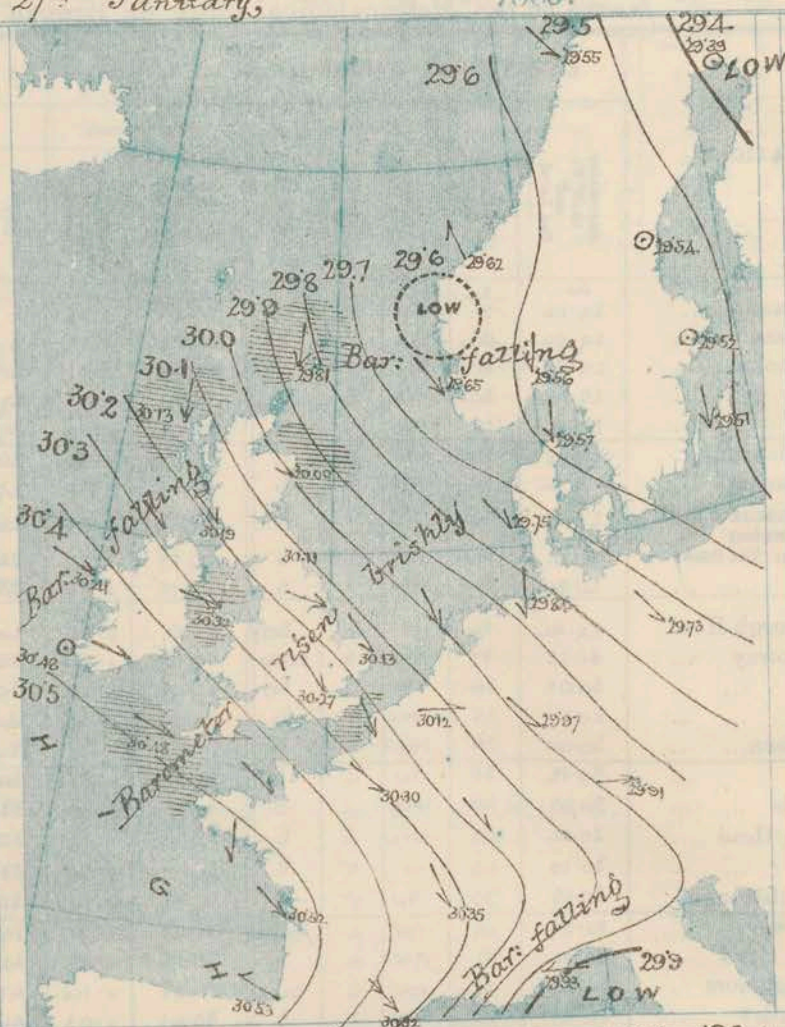
Sea Disturbance — where considerable, is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 15 Years 1871–1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.907
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.081



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

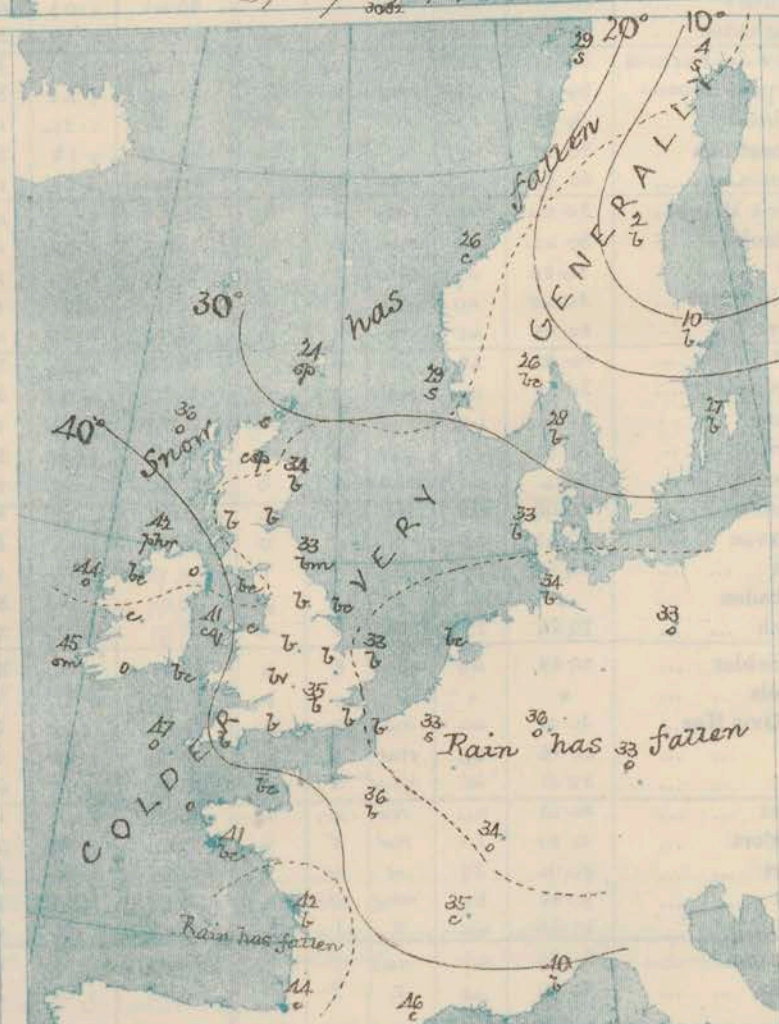
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	43.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	1.84
Leith	44.6	33.7	38.2	36.8	1.96
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.8	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.02
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins: and upwards, in an anticyclone lying over the Bay of Biscay and north of Spain.
Lowest, 29.4 ins: and less, in the north of Sweden; relatively low 30.0 ins: and less, in a depression lying over the Gulf of Genoa.
Gradients moderate generally. Barometers falling in the west and north of our islands and also in Norway, but rising elsewhere.

TEMPERATURE

Highest, 47° at Skilly, 46° at Killybegs, 45° at Valencia, and 44° at Bilmullet, Biarritz and Lisbon.
Lowest, 2° at Himoand, 4° at Haparanda, 10° at Stockholm, 24° at Sumburgh Head, and 26° at Christiansund and Lardø.
Slight frost occurred last night in many parts of Great Britain.

WIND

Chiefly NW¹ or W¹ and moderate or fresh in force.
Strong to gale from N. in the extreme north of Scotland, calm at Valencia and also in the north of Sweden.
Moderate from E. or NE. at Kiev, Biarritz, and Lisbon.

WEATHER

Dull in Belgium and Germany as well as in the extreme southwest of our islands, with snow at Brussels.
Fair or fine in most other localities, but snow reported in the north of Scotland as well as in Norway.
Showers of hail or sleet fell yesterday at most of our northern and northwestern stations.

SEA

Rough at Sumburgh Head and rather rough on many exposed parts of our western and northern coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new fall of the barometer in the west seems to indicate the approach of another depression from the Atlantic, but at present the advancing system is at too great a distance from our shores for its size and depth to be accurately determined.

The slight N¹ gale in the extreme north of Scotland will probably subside without extending further southwards.

FORECASTS

for the 24 hours ending at NOON on 28th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	Strong N ¹ winds, moderating and backing later; snow squalls at first then fair.
1	SCOTLAND EAST	NW ¹ to W ¹ winds, moderate; fair generally.
2	ENGLAND N.E.	-----D°-----D°-----D°-----
3	ENGLAND EAST	Same as No 5.
4	MIDLAND COUNTIES	Same as No 5.
5	ENGLAND SOUTH	NW ¹ to W ¹ winds light or moderate; fair generally, but not settled.



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	W ¹ to SW ¹ winds; fair to dull and unsettled.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	-----D°-----D°-----D°-----
9	IRELAND NORTH	Wind backing to the SW ¹ and freshening; dull, some rain.
10	IRELAND SOUTH	-----D°-----D°-----D°-----

WARNINGS

The south cone was lowered last evening 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 sweep 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 sweep towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.53	33	35	NNW 2	0	3	Holyhead ...	30.24	44	40	NW 9	bcq	7
Sumburgh Head ...	29.50	34	34	N 2	asp	4	Valencia ...	30.55	48	42	NW 3	cm	3
Stornoway ...	30.07	40	39	NW 7	chsp	5	Scilly ...	30.45	47	42	NNW 8	bc	6
Aberdeen ...	29.91	39	38	NNW 5	bcsp	6	Dungeness ...	29.94	47	43	NW 8	c	6
Shields ...	29.94	44	40	NNW 6	c	2	London ...	30.02	47	43	NW 7	c	4
Ardrossan ...	30.11	44	43	NW 5	b	4	Yarmouth ...	29.79	43	41	NW 6	c q q	4
Malin Head ...	30.24	39	39	NW 6	b	6	Jersey ...	30.34	49	43	NW 6	c	5
Mullaghmore ...	30.38	44	41	NW 8	bc q	6	Rocheport ...	30.49	48	45	NW 5	c	2
Belmullet ...	30.46	46	42	NNW 5	bc	4							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning show that pressure was then giving way greatly over Scandinavia, the Baltic, and the greater part of Russia and Central Europe, owing to the advance towards these regions of both the depressions referred to in the reports of Wednesday. In the West and South of the British Islands, however, a decided recovery was in progress, and even in Lapland and on the shores of the White Sea the barometer had risen a little. Reading varied from 30.5 ins. and more over Spain, 30.4 ins. and more over the southwest of Ireland and about 29.7 ins. over the Gulf of Archangel, to rather below 29.4 ins. over Denmark and Finland. Over Russia and northern Europe the wind was light and varied very much in direction, while snow was falling both in those regions and some parts of Hungary; in Germany and Austria the wind was W. or SW., the weather cloudy, unsettled and becoming warmer, while over the British Islands there was a gale from NW, with slightly showery weather, while in France there was a W. breeze, with fair, cloudy weather. Temperature had fallen fast over northern Russia, but risen in the South and in Hungary (to which regions the W. and SW. breezes had spread) while over western Russia it had changed somewhat irregularly. Over the Central part of Spain and France frost prevailed, in Germany and Austria the weather was not so cold, but in Central and Northern Russia the frost was again very severe. The lowest individual values at 8 am were -29° F. at Archangel, -2° at St. Petersburg, +1° at Moscow, 2° at Kuopio, 7° at Uleaborg, 17° at Helsingfors, 21° at Kharkov, 24° at Riga and Odessa, 26° at Nicolaieff, Clermont, Besançon and Lyons, and 29° at Madrid; the highest were 57° at Algiers, 51° at Malta and Perpignan, 51° at Brindisi, 47° at Cagliari, Naples, Jersey and Scilly. Later on a fall of temperature (which had commenced in Ireland before 8 am) spread eastward, over the British Islands, the change being accelerated by the clearing of the sky, slight frosts were felt in several parts of Great Britain during the succeeding night.

GENERAL REMARKS ON THE WEATHER FOR THE 24 HOURS ENDING AT 8 AM ON JANUARY 26TH 1888.

The reports for Wednesday morning showed that pressure, which varied from 30.5 ins. and more over the greater part of France to a little below 29.1 ins. over Lapland, was becoming unsteady over the United Kingdom; a recovery from the fall of the previous day was in progress over Scandinavia, but in the British Islands and France the mercury was falling again and over Russia pressure was giving way decidedly. W. and SW. winds prevailed over northwestern Europe, with mild weather; anticyclonic breezes and foggy cold weather in France, NW. winds and showers in Sweden, SE. winds and snow in Finland. Temperature was still low over eastern Europe, but was beginning to yield at the more northern stations to the steadily advancing W. current of wind, and readings varied from rather below zero over Central and Southern Russia to 50° and more over the greater part of the Mediterranean and the extreme West of Ireland. The lowest individual values were -9° F. at Nicolaieff, -5° at Moscow, +3° at Odessa, 5° at Kuopio, 9° at Haparanda, 10° at Uleaborg, 16° at Helsingfors, 22° at Budapesth, 25° at Limoges, 27° at Clermont, and 29° at Belfort and Paris, the highest were 56° at Malta, 51° at Brindisi, 50° at Algiers, as well as Valencia and Belmullet, 47° at Naples, Jersey and Scilly. Later in the day a new well formed depression reached Scotland from the Atlantic, and SW. to NW. gales spread over the country, but with very little rain except in the North.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Saturday 28th January 1888.*
 Issued by the Meteorological Office, 116, Victoria Street, London, *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, No. 1, Victoria Road, London, N. 1, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17																		
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Saturday, 28th January,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; → = forces 8 to 10;

→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

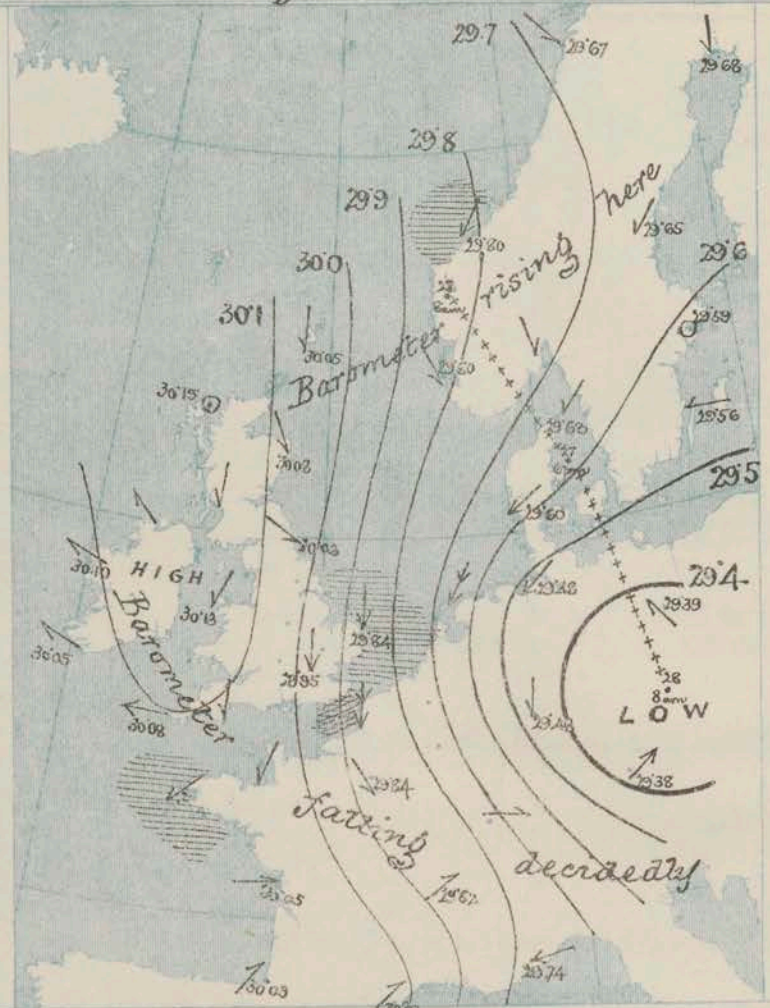
Sea Disturbance — where considerable is shown thus.

▨ = Rough. ▨ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871-1885

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.685
Stornoway	29.687
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.829
Shields	29.886
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.869
Rocha's Point	29.804
Pembroke	29.928
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.965
Yarmouth	29.981



TEMPERATURE & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

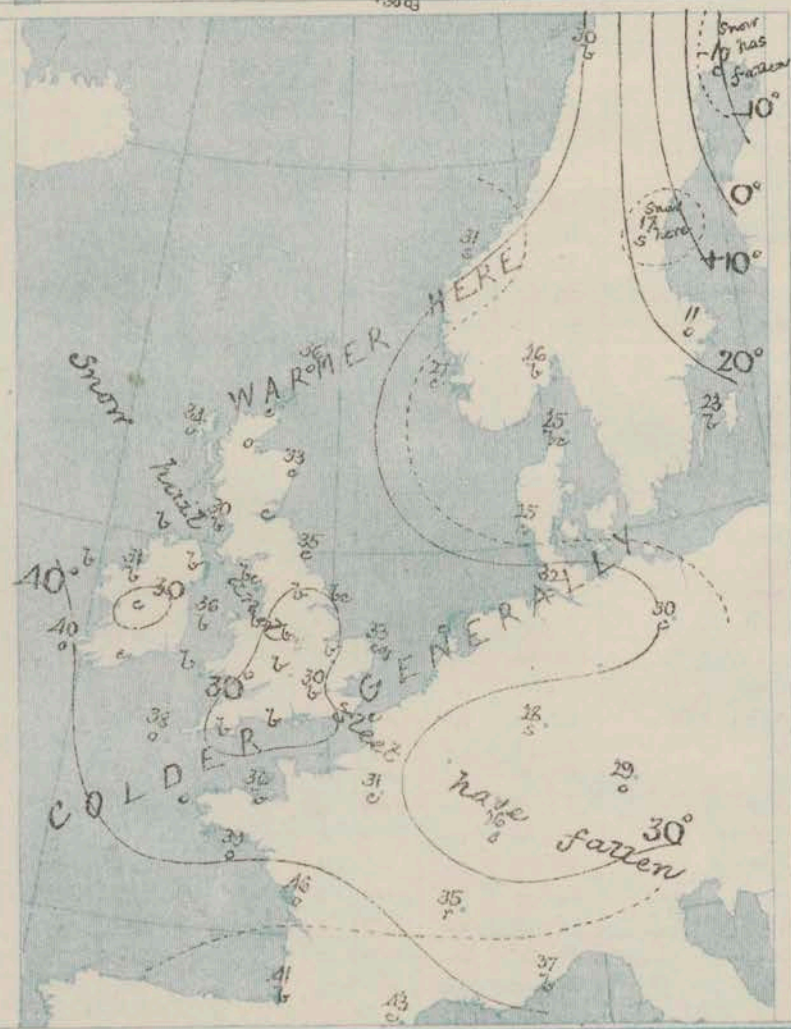
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of January.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.03
Aberdeen	42.4	33.3	37.1	35.1	2.34
Leith	44.6	33.7	38.2	36.6	1.95
Shields	43.1	34.7	38.0	36.7	1.70
York	43.2	33.1	36.3	35.9	1.88
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	5.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.33
Parsonstown	40.0	34.6	39.0	37.9	2.00
Valencia	40.8	40.5	44.3	43.3	6.70
Rocha's Point	47.9	39.7	43.2	42.0	5.02
Pembroke	45.8	39.9	42.8	41.2	3.02
Scilly	49.1	43.3	46.5	45.0	3.03
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.8	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 ins. and upwards, in an anticyclone lying over the greater part of Ireland, Scotland, Wales, and the NW of England. Lowest, 29.4 ins. and less, in a depression lying over Germany. Gradients moderate in the East and Southeast, slight elsewhere. Barometer falling over France, Germany and the S. of our islands but rising elsewhere.
TEMPERATURE	Highest, 46° at Rochefort, 44° at Lisbon, 43° at Perpignan, 41° at Biarritz, 40° at Valencia, 39° at Rochefort and Brest. Lowest, -10° at Haparanda, +11° at Stockholm, 17° at Helsingfors, 23° at Riga, 26° at Varna and Keffort, and 27° at Plovdiv.
WIND	Sharp frost occurred last night in nearly all parts of the United Kingdom. NE ^{ly} in Scandinavia and Denmark, and N ^{ly} over Great Britain, the Netherlands, and the north of France. W ^{ly} or SW ^{ly} over the southern parts of France and Germany, E or SE ^{ly} in the extreme southwest of our islands. Strong in force at all the southeastern stations with a gale at Helder and C. de Az.
WEATHER	Fine over the greater part of our islands, but dull in the extreme southwest. Cloudy at many of the Scandinavian stations with snow at Helsingfors, Christianund, Helsing, and Helsing, as well as at Dungeness. Heavy snow fell yesterday in the north of Scotland, and showers of hail or sleet in many parts of the Kingdom.
SEA	Rather rough off our East and southeast coasts as well as at Christianund and Helsing, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning a depression of gradually increasing depth has travelled in a south-southeasterly direction over Norway and Denmark, while shallow secondary systems have passed directly over the United Kingdom.

The main disturbance is now travelling away over Germany, while the subsidiary systems are disappearing over France. The barometer, is, however, falling decidedly on our southwest coasts, while the wind there is veering to E. or SE. and there are consequently some indications of the advance of a new depression from the Atlantic. The wind on our southern coasts is likely to veer to NE. or E. generally, with some increase of force in the extreme southwest.

FORECASTS

for the 24 hours ending at NOON on 29th JANUARY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N ^{ly} winds, moderate; fair generally, but snow showers in places.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	NW ^{ly} to NE ^{ly} winds, moderate or fresh; fair generally, but some snow showers.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 2.
5	ENGLAND SOUTH	N ^{ly} to NE ^{ly} winds, fresh or strong; fair generally, but some snow showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	N ^{ly} to NE ^{ly} winds, light; fair generally.
7	ENGLAND N.W.	N ^{ly} to E ^{ly} winds freshening; fair generally.
8	ENGLAND S.W.	NE ^{ly} and E ^{ly} winds, moderate to strong; fair to dull and unsettled.
9	IRELAND NORTH	E ^{ly} winds, freshening; fair to dull and unsettled.
10	IRELAND SOUTH	-----D°-----D°-----D°-----
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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skutumpahes ...	29.54	28	27	NW 2	h.s	3	Holyhead ...	30.17	43	40	WNW 6	c q	6
Samburgh Head ...	29.82	29	29	N 6	TS p	6	Valencia ...	30.36	48	46	WSW 3	c m	3
Stornoway ...	30.16	32	32	N 6	c	5	Scilly ...	30.34	47	45	WNW 5	c p	5
Aberdeen ...	29.93	31	29	NW 6	op	6	Dungeness ...	30.12	43	39	NW 4	b c	4
Shields ...	29.92	41	37	W 4	b c	2	London ...	30.11	44	40	WNW 3	o	*
Ardrossan ...	30.04	41	37	NW 7	b	5	Yarmouth ...	29.95	40	36	WNW 5	c q	4
Malin Head ...	30.15	41	40	WNW 5	c	4	Jersey ...	30.33	47	42	NW 4	b c	3
Mullaghmore ...	30.27	45	42	NW 5	c	4	Rochefort ...	30.47	46	44	NW 5	c	2
Belmullet ...	30.30	45	44	WNW 1	f	*							

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

The reports for yesterday morning showed a somewhat important modification of the conditions which prevailed over Europe on Thursday. Pressure at 8 am varied from about 30.5 ins: over the Bay of Biscay and about 29.7 ins: over the north of Russia to about 29.3 ins: over Poland and the Baltic provinces, to which region a somewhat irregularly formed depression had advanced from the north-westward. In addition to this a small secondary system had appeared near Skudermals, and was apparently moving southwards to the North Sea. N^W to W^N winds of considerable strength were prevalent over the whole of Western and some parts of Central Europe, while in Finland and the Baltic provinces the wind was generally E^N, and over Southern Europe W^N. The weather (after being showery generally, with snow over Austria, Poland, and Russia) had improved in some regions, but was far from being settled. Temperature had decreased very generally, and the area of frost was spreading westwards again. The lowest readings at 8 am. were -31° F. at Archangel, -7° at Kuopio and St. Petersburg, +1° at Helsinki, 2° at Helsingfors and Ålesund, 4° at Haparanda, 9° at Stockholm, 12° at Moscow and 19° at Hermanstadt; the highest were 55° at Malta, 54° at Palermo, 51° at Brindisi and Langunaine, 50° at Algiers, and 47° at Scilly.

Later on the small depression near Skudermals moved southwards, and cold N^W to N^N winds, strong to a moderate gale in force spread over Great Britain and the North Sea, with cold rain, and in many places snow, followed by bright, frosty weather.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 29th JANUARY 1888.
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 16, Victoria Street, London, R. H. SCOTT, Secretary.																			
STATIONS.		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.23	-12	Z	0	0	29.90	+ .42	-9	-9	+ 1	S	2	0	*	-4	-18	—		
Hernösand ...	29.82	12	Z	0	0	29.97	+ .32	-7	-7	- 24	Z	0	0	*	23	?	—		
Stockholm ...	29.73	19	N	4	0	29.92	+ .33	15	14	+ 4	Z	0	0	*	23	7	—		
Wisby ...	29.65	26	ENE	2	S	29.78	+ .22	21	18	+ 2	ENE	6	0	*	37	21	0.08		
Bodö ...	29.83	31	E	2	b	29.85	+ .18	22	20	- 8	E	2	c	1	34	19	—		
Christiansund...	29.89	31	SW	1	s	29.98	+ .18	31	30	0	SW	4	c	4	32	29	0.12		
Skudesnaes ...	29.86	25	ENE	2	b	30.02	+ .22	25	23	- 2	NNE	2	b	2	30	25	—		
Christiania Fjord (Fjorder)	29.81	27	NNE	3	b	29.96	+ .31	22	21	- 4	NNE	3	b	1	27	19	—		
Skagen (The Scaw)	29.81	25	NE	2	c	29.91	+ .28	25	24	0	NE	2	c	2	27	23	—		
Fanö ...	29.76	20	N	2	b	29.93	+ .33	20	19	- 5	NNE	4	b	*	27	19	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.02	31	NNE	2	b	30.06	+ .01	30	29	- 6	Z	0	b	1	36	28	—		
Stornoway ...	30.14	35	Z	0	0	30.11	- .04	36	35	+ 2	Z	0	0	3	38	31	—		
Wick ...	30.08	32	NE	2	0	30.10	- .01	28	28	- 5	N	2	b	1	35	26	0.03		
Nairn ...	30.11	35	WNW	2	0	30.10	- .04	33	32	0	W	1	c	1	35	30	—		
Aberdeen...	30.06	34	NW	2	sp	30.09	+ .01	32	32	- 1	N	1	b	3	37	31	0.07		
Leith ...	30.10	32	NW	2	b	30.12	- .01	33	32	- 1	NW	1	csp	*	41	27	0.01		
Shields ...	30.03	35	NNW	3	c	30.01	- .02	35	34	0	N	3	c	4	37	30	0.08		
Spurn Head ...	29.94	34	NW	6	b	29.98	+ .05	34	33	- 1	ENE	4	b	6	38	31	0.15		
York ...	30.03	33	N	1	b	30.04	+ .04	29	29	- 1	N	1	0	*	37	28	0.06		
Loughborough	30.03	34	NW	2	b	30.01	- .00	32	31	+ 4	NNW	3	c	*	40	28	—		
GERMANY.																			
Ardrossan ...	30.12	33	N	1	b	30.15	- .00	29	29	- 1	N	1	bm	1	39	26	—		
Malin Head ...	30.15	32	S	1	b	30.17	- .01	35	33	+ 4	SSE	2	0	2	39	31	—		
Mullaghmore ...	30.14	35	ESE	3	b	30.19	+ .03	28	27	- 3	Z	0	b	2	40	26	—		
Belmullet ...	30.10	34	SE	3	b	30.20	+ .10	32	31	+ 2	S	3	a	*	38	27	—		
Donaghadee ...	30.15	32	NE	2	c	30.16	- .01	35	32	- 2	NNE	2	b	0	39	30	—		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	30.10	34	N	3	b	30.18	- .01	33	31	+ 1	N	3	b	*	39	29	—		
Liverpool (Bidston)	30.09	34	NW	2	b	30.09	- .02	34	32	+ 1	NNW	3	b	3	37	31	—		
Holyhead ...	30.13	36	NE	2	b	30.11	- .02	37	33	+ 1	NNE	4	b	4	40	36	—		
Parsonstown ...	30.13	31	Z	0	b	30.21	+ .04	19	19	- 8	Z	0	b	*	38	19	—		
Valencia ...	30.03	41	ESE	5	0	30.19	+ .14	33	31	- 7	SE	1	b	1	43	31	—		
PENIN- SULA.																			
Roche's Point...	30.07	40	ESE	4	b	30.15	+ .04	33	31	- 6	NNW	1	b	3	41	32	—		
Pembroke ...	30.10	36	E	2	b	30.10	- .03	37	35	+ 5	N	3	b	1	39	31	—		
Scilly ...	30.03	39	E	5	b	30.10	+ .02	41	37	+ 3	NNE	4	c	4	41	36	—		
Prawle Point ...	30.10	31	ENE	3	b	30.08	- .01	29	28	0	NNW	3	b	2	42	26	—		
Jersey ...	30.06	36	NE	3	bm	30.03	- .02	38	33	+ 2	N	3	c	3	40	32	—		
PENIN- SULA.																			
Hurst Castle ...	30.04	33	NNE	2	b	29.99	- .04	31	30	+ 2	NNW	3	b	1	40	26	—		
Dungeness ...	29.92	34	NNE	4	c	29.85	- .03	31	31	+ 1	N	4	s	4	38	29	—		
London ...	29.99	34	N	3	b	29.95	- .00	32	31	+ 2	N	2	c	*	38	22	—		
Oxford ...	30.04	31	NW	3	b	29.99	- .04	31	30	+ 2	NW	3	b	*	39	29	—		
Cambridge ...	29.99	33	N	4	0	29.95	- .02	32	31	+ 4	N	1	csp	*	36	26	0.04		
PENIN- SULA.																			
Yarmouth ...	29.89	34	NW	3	bm	29.91	+ .07	34	32	+ 1	NE	5	b	5	37	30	0.21		
Cuxhaven ...	29.71	28	NNE	5	b	29.90	+ .42	28	27	- 4	NNE	5	c	*	30	26	—		
Berlin ...	29.49	30	N	3	s	29.68	+ .29	28	27	- 2	NNW	4	c	*	30	27	0.08		
Wiesbaden ...	*	*	*	*	*	29.81	+ .33	19	18	- 9	Z	0	b	*	36	19	0.04		
Munich ...	29.57	22	W	4	S	29.72	+ .34	20	20	- 9	W	6	S	*	30	19	0.04		
FRANCE & NETHERLANDS.																			
The Helder ...	*	*	*	*	*	29.82	+ .09	30	30	0	SW	3	0	*	33	25	0.04		
Brussels ...	*	*	*	*	*	29.85	+ .03	33	33	+ 1	NNE	8	S	6	36	32	0.08		
Cape Gris Nez...	29.87	32	N	8	b	29.89	+ .05	24	24	- 7	S	1	S	*	37	19	0.12		
Paris ...	29.94	32	NNW	3	b	30.04	- .08	32	29	- 6	NE	3	b	5	32	28	—		
Brest ...	30.06	36	ENE	3	0	30.04	- .02	34	32	- 5	NE	4	b	2	?	30	—		
Lorient ...	30.07	37	ENE	4	b	30.03	- .02	31	29	- 15	NE	5	b	2	46	27	—		
Rockefort ...	30.05	37	NE	4	b	29.85	+ .13	24	24	- 2	W	1	0	*	33	18	0.20		
Belfort ...	29.75	27	W	2	0	29.94	+ .12	25	24	- 10	N	1	b	*	36	24	0.04		
Lyons ...	29.94	29	NNW	3	b	29.65	- .09	32	27	- 5	ENE	4	b	3	50	30	—		
Nice ...	29.51	39	NW	5	b	29.91	- .12	28	25	- 15	Z	0	c	*	36	27	—		
Perpignan ...	29.88	40	NW	4	c	29.86	- .23	33	28	- 8	E	7	b	2	50	30	—		
Biarritz ...	29.97	48	W	5	0	29.78	- .35	45	44	+ 4	NNE	3	c	4	54	39	0.27		
Corunna ...	*	*	*	*	*	29.82	- .41	46	43	+ 2	NNW	5	c	6	57	44	0.04		
Lisbon ...	30.01	51	WSW	5	c														

For Explanation of Columns, see p. 4.

WEATHER

CHARTS

for 8 a.m. on

Sunday

29th January

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isohars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 20; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ⊙ = dead calm.

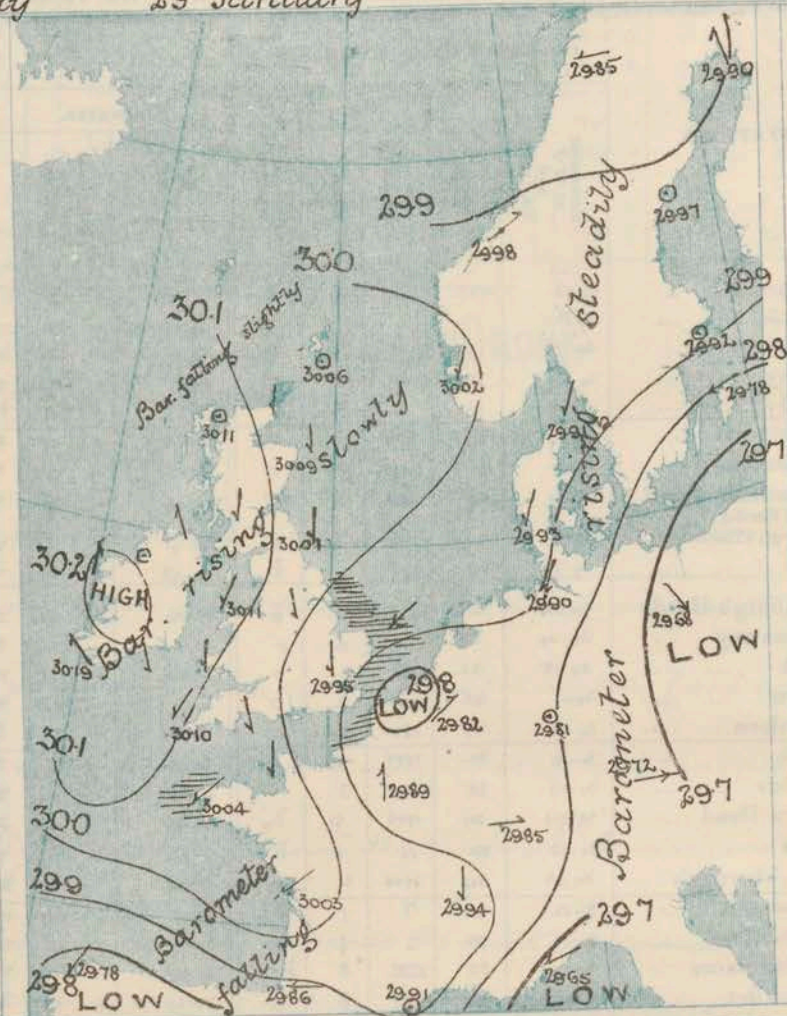
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
 During the 10 Years 1871—1880.

STATIONS	MEAN READINGS.
	ins.
Sumburgh Head	29.685
Stornoway	29.637
Wick	29.725
Nairn	29.753
Aberdeen	29.790
Leith	29.820
Shields	29.880
York	29.935
Loughborough	29.967
Ardrossan	29.840
Donaghadee	29.851
Holyhead	29.896
Liverpool	29.922
Parsonstown	29.886
Valencia	29.860
Roche's Point	29.894
Pembroke	29.926
Scilly	29.960
Jersey	30.010
Hurst Castle	29.997
Dover	30.017
LONDON	30.007
Oxford	29.997
Cambridge	29.992
Yarmouth	29.981



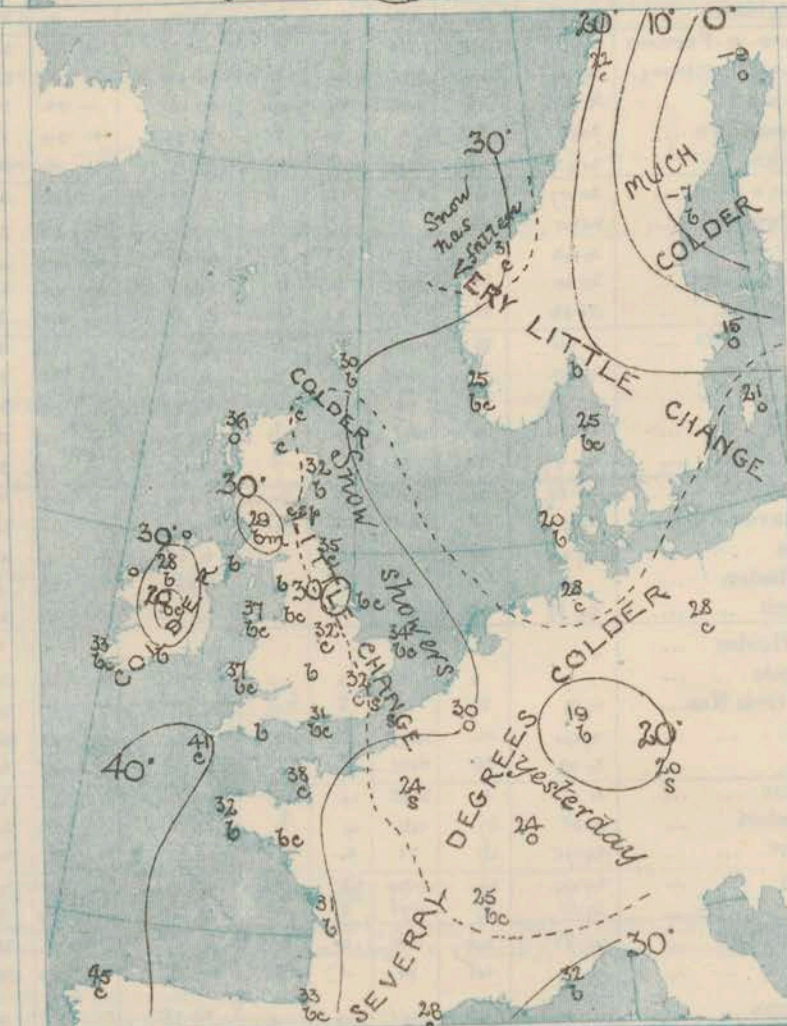
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet.	
Sumburgh Head	42.9	35.4	39.4	38.2	3.66
Stornoway	43.0	34.2	39.0	37.8	5.17
Wick	42.2	33.2	37.9	36.4	1.97
Nairn	41.9	32.7	36.6	35.0	2.02
Aberdeen	42.4	33.3	37.1	35.4	5.34
Leith	44.6	33.7	38.2	36.8	1.95
Shields	43.1	34.7	38.0	36.7	1.79
York	43.2	33.1	36.3	35.9	1.89
Loughborough	43.5	32.9	36.5	35.5	2.08
Ardrossan	44.4	36.4	39.8	38.5	4.53
Donaghadee	44.4	36.3	39.9	39.1	3.03
Holyhead	45.9	39.0	41.7	40.3	3.49
Liverpool	43.9	35.6	38.7	37.1	2.23
Parsonstown	46.0	34.6	39.0	37.9	3.09
Valencia	49.8	40.5	44.3	43.3	6.79
Roche's Point	47.9	39.7	43.2	42.0	5.63
Pembroke	45.8	39.9	42.8	41.2	3.92
Scilly	49.1	43.3	46.5	45.0	3.93
Jersey	46.0	38.7	41.7	40.4	3.24
Hurst Castle	45.3	37.0	40.4	39.7	3.10
Dover	43.7	36.6	39.4	38.2	2.68
LONDON	44.8	34.4	37.9	36.3	2.20
Oxford	43.8	34.4	37.5	36.5	2.33
Cambridge	43.9	32.6	36.5	35.7	1.57
Yarmouth	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, over Central Ireland, 30.1 ins. and upwards over the west and north of our Islands generally.
 Lowest, 29.7 ins. and less, over North Germany and also over the Gulf of Genoa; 29.8 ins. and less, over the Iberian Peninsula.
 Gradient slight but somewhat irregular. Barometer rising at all but our southern and the Western French stations.

TEMPERATURE

Highest, 45° at Limerick, 45° at Corunna, 41° at Bally, 38° at Jersey, 37° at Holyhead and Pembroke, and 36° at Stromsøy.
 Lowest, -3° at Naparanda, -7° at Hernösand, +15° at Stockholm, 19° at Wiesbaden and Larssonstorp, 20° at Munich, 21° at Nisby, and 22° at Linder.
 Sharp frost occurred last night in many parts of the Kingdom.

WIND

Chiefly N^W or NE^W, fresh in force in France and the south-east of England.
 Light S^W in the west of Ireland; calm in the extreme north of Scotland.
 W^W over South Germany, variable in the south of France.

WEATHER

Fair generally but snow reported at Dungeness, Cherbourg, Paris, and Munich.
 Snow showers fell yesterday over the northern and eastern parts of Great Britain.

SEA

Rough at Lundy Head and Cherbourg, and rather rough at Yarmouth and Great, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Germany yesterday has partially dispersed, but some small subsidiary disturbances have advanced from the northward over Great Britain. These are, however, now passing away and the anticyclone over our western coasts is inclined to extend eastwards.

FORECASTS

for the 24 hours ending at NOON on 30TH JANUARY 1888.

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

WARNINGS

FORECASTS.

NONE ISSUED

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.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.80	30	27	N 4	C	3	Holyhead ...	30.13	38	35	NNE 4	b	3
Sumburgh Head ...	30.03	32	32	N 3	o	4	Valencia ...	30.00	42	39	ESE 6	og	5
Stornoway ...	30.15	38	35	L 0	C	3	Scilly ...	30.14	41	36	E 5	c	4
Aberdeen ...	30.07	35	34	NW 3	o	3	Dungeness ...	29.91	37	36	NNW 5	bc	4
Shields ...	30.03	36	33	NW 3	o	4	London ...	29.99	38	34	NW 5	cq	5
Ardrossan ...	30.12	39	35	NW 2	b	1	Yarmouth ...	29.87	34	30	NNW 5	sq	5
Malin Head ...	30.14	38	34	ESE 2	b	1	Jersey ...	30.06	39	35	NNE 3	b	3
Mullaghmore ...	30.11	39	35	ESE 4	bc	2	Rocheport ...	30.08	37	36	NNE 4	c	2
Belmullet ...	30.08	38	34	SE 3	b	*							

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

The reports for yesterday morning showed that areas of high pressure, 30.1 ins. and upwards, were lying respectively over the west and north of our Islands and over Spain and Algeria, while the lowest readings 29.3 ins. and less, were reported in a depression which lay over Central Russia. A well marked depression, in which readings were below 29.4 ins., was, however, lying over Germany to which position it had advanced in a south-south-easterly direction. The wind was N^W or NE^W over the greater part of Northern Europe, but in the extreme west of our Islands it drew into E. or SE. Over the southern part of France and Germany, however, the wind was W^W or SW^W while in Russia it circulated round the depression lying over the Central Provinces. The weather was fine over the greater part of our Islands and also in Spain and Italy, but cloudy elsewhere, with snow in many places. Temperature had risen in the extreme north of our Islands and also at some of the Algerian stations, but fallen elsewhere; readings ranged from 50° and upwards on the shores of the Mediterranean and 40° over southern Europe generally to 10° or more below zero over Lapland. The highest individual readings were 54° at Oran, Algiers, and Malta, 53° at La Calle, 52° at Khendisi, 51° at Sanguinaire, and 50° at Faxe and Palermo; the lowest were -17° F. at Archangel, -16° at Petersburg, -14° at Kuopio, -10° at Haparanda, -2° at Helsinki, -1° at Umea and +6° at Hango.

In the course of the day some small shallow depressions advanced over Great Britain from the northward, and occasioned snow showers at many of the Eastern stations. In the west and southwest, however, the weather remained fine and sharp frost was experienced in many places at night.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 30th January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
		In.	°				In.	In.	°	°	°					°	°	In.	
SCANDINAVIA.																			
Haparanda ..	29.91	0	Z	0	0	29.69	- 21	0	0	+ 9	S	2	0	*	1	-11	0.20		
Hernösand ...	29.99	-4	Z	0	m	29.86	- 11	9	3	+ 10	Z	0	0	*	14	10	-		
Stockholm ...	30.01	13	Z	0	0	30.02	+ 10	9	9	- 6	Z	0	0	*	21	?	-		
Wisby ...	29.96	19	E	2	0	30.03	+ 25	19	?	- 2	ESE	2	S	*	32	18	0.08		
Bodö ...	29.69	28	ESE	2	S	29.40	- 45	35	34	+ 13	N	5	r	3	36	21	-		
Christiansund...	29.93	32	SSW	3	c	29.70	- 28	34	32	+ 3	SW	5	c	4	34	28	0.32		
Skudesnaes ...	30.04	27	ESE	2	b	29.90	- 12	35	33	+ 10	SSE	6	0	4	?	25	-		
Christiania Fjord (Færder)	30.02	25	Z	0	0	29.97	+ 01	26	24	+ 4	S	4	0	1	?	21	-		
Skagen (The Scaw)	30.02	25	ESE	1	bc	30.00	+ 09	22	21	- 3	Z	0	c	0	27	19	-		
Fanö ...	30.07	19	NW	1	0	30.04	+ 11	22	21	+ 2	S	2	c	*	27	19	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.01	32	Z	0	c	29.93	- 33	38	37	+ 8	mtw	1	bc	2	39	28	0.11		
Stornoway ...	30.05	37	SW	4	0	29.87	- 24	36	36	0	Z	0	0	3	40	33	0.14		
Wick ...	30.01	34	NW	2	c	29.83	- 27	34	34	+ 6	mtw	2	bc	1	38	27	0.05		
Nairn ...	30.08	34	W	1	c	29.89	- 21	33	32	0	W	1	0	1	39	32	0.03		
Aberdeen...	30.10	33	NW	1	0	29.90	- 19	31	30	- 1	mtw	1	bc	2	38	25	0.01		
Leith ...	30.10	34	NW	1	bc	29.95	- 17	35	33	+ 2	W	1	osp	*	40	31	0.01		
Shields ...	30.11	34	NW	2	bc	30.01	- 00	30	29	- 5	SW	1	m	3	39	25	0.04		
Spurn Head ...	30.11	32	NNE	3	0	30.01	+ 03	32	32	- 2	W	3	bc	4	34	28	-		
York ...	30.13	29	N	1	0	30.06	+ 02	17	17	- 12	S	1	f	*	37	14	0.08		
Loughborough	30.12	30	NE	1	0	30.12	+ 11	18	18	- 14	SE	1	cm	*	40	18	-		
GERMANY.																			
Ardrossan ...	30.14	35	Z	0	0	29.97	- 18	39	38	+ 10	SSW	3	c	3	41	26	0.01		
Malin Head ...	30.15	36	SSW	2	0	29.98	- 19	40	39	+ 5	NW	3	osp	3	42	34	0.01		
Mullaghmore ...	30.17	35	S	1	smf	30.07	- 12	38	37	+ 10	SW	4	cp	2	44	27	0.01		
Belmullet ...	30.17	38	SW	2	0	30.10	- 10	39	38	+ 5	mtw	2	bc	*	40	33	0.09		
Donaghadee ...	30.16	32	NNE	2	bc	30.03	- 13	38	33	- 2	W	3	bc	1	40	30	0.05		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	30.12	36	NNE	1	0	30.05	- 03	33	32	0	NE	2	f	*	40	31	-		
Liverpool (Bidston)	30.13	34	N	1	c	30.07	- 02	33	33	- 1	SW	3	oh	3	37	31	0.01		
Holyhead ...	30.14	36	NE	1	c	30.08	- 03	37	34	0	W	3	0	2	40	33	-		
Parsonstown ...	30.19	29	Z	0	0	30.13	- 08	31	30	+ 12	Z	0	0	*	34	18	0.03		
Valencia ...	30.17	38	ESE	1	c	30.17	- 02	38	36	+ 5	ESE	1	cm	1	44	33	-		
PENINSULA.																			
Roche's Point...	30.18	35	N	3	c	30.15	- 00	35	33	+ 2	mtw	1	bc	3	39	30	-		
Pembroke ...	30.14	36	NE	2	0	30.14	+ 04	38	36	+ 1	SSW	3	og	1	39	31	-		
Scilly ...	30.07	40	N	5	c	30.14	+ 04	35	32	- 6	E	1	b	3	42	33	-		
Prawle Point ...	30.10	35	mtw	4	c	30.17	+ 09	27	25	- 2	mtw	2	0	2	43	24	-		
Jersey ...	30.02	38	NE	4	cg	30.12	+ 09	35	32	- 3	NNE	3	bc	3	40	30	0.04		
AFRICA.																			
Hurst Castle ...	30.07	33	NE	4	0	30.14	+ 15	24	23	- 7	NNE	2	0	0	37	21	-		
Dungeness ...	29.99	32	ESE	5	c	30.07	+ 32	26	26	- 5	N	1	c	1	37	23	?		
London ...	30.01	32	N	2	0	30.10	+ 15	24	24	- 8	WSW	1	ogf	*	37	24	-		
Oxford ...	30.14	27	NE	2	0	30.14	+ 15	21	21	- 10	SSW	1	bf	*	37	21	-		
Cambridge ...	30.09	28	N	1	0	30.11	+ 16	23	22	- 9	W	1	0	*	37	22	-		
ASIA.																			
Yarmouth ...	30.03	33	ESE	5	cg	30.06	+ 15	28	28	- 6	mtw	1	bc	4	34	26	0.04		
Cuxhaven ...	30.01	27	NE	4	c	30.01	+ 31	25	25	- 3	S	2	0	*	?	24	-		
Berlin ...	29.82	27	NW	3	S	29.99	+ 31	23	22	- 5	mtw	2	bc	*	28	23	0.04		
Wiesbaden ...	*	*	*	*	*	30.04	+ 23	19	18	0	NW	1	0	*	30	16	-		
Munich ...	29.86	16	NW	3	c	29.92	+ 20	5	4	- 15	SE	3	c	*	21	1	0.04		
OCEANIA.																			
The Helder ...	30.04	30	ESE	1	c	30.09	+ 26	21	20	- 13	S	1	0	1	32	21	-		
Brussels ...	*	*	*	*	*	30.08	+ 26	17	?	- 13	NE	1	0	*	31	16	-		
Cape Gris Nez...	29.99	30	E	7	bc	30.06	+ 21	25	25	- 8	E	1	e	1	36	23	0.04		
Paris ...	29.92	29	N	5	0	30.03	+ 14	16	16	- 8	N	3	bc	*	35	15	0.04		
Brest ...	30.07	35	NE	4	S	30.14	+ 10	32	31	0	ESE	1	S	5	3	30	-		
AMERICA.																			
Lorient ...	30.02	36	NE	5	0	30.13	+ 09	31	30	- 3	NNE	5	0	2	39	28	-		
Rochefort ...	30.00	38	N	5	bc	30.03	+ 03	24	23	- 7	NNE	7	0	2	41	19	-		
Belfort ...	29.88	23	SE	1	0	29.91	+ 06	14	13	- 10	E	3	0	*	27	6	-		
Lyons ...	29.92	26	E	4	c	29.92	- 02	21	19	- 4	E	4	0	*	34	20	-		
Nice ...	29.71	33	ESE	1	c	29.73	+ 03	31	26	- 1	ESE	3	0	3	39	27	-		
AFRICA.																			
Perpignan ...	29.84	36	Z	0	0	29.86	- 05	29	27	+ 1	SW	1	0	*	43	27	-		
Biarritz ...	29.91	36	E	4	0	29.91	+ 05	30	29	- 3	ESE	4	c	2	48	28	-		
ASIA.																			
Corunna ...	*	*	*	*	*	30.01	+ 23	42	40	- 3	NNE	3	0	5	50	37	-		
Lisbon ...	29.74	47	mtw	5	0	29.89	+ 07	39	32	- 7	N	5	0	5	52	37	0.04		

For Explanation of Columns, see p. 4.

for 8 a.m. on Monday, 30th January,

1888

(Explanation of Map)

Wind ——— Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

* \longrightarrow = forces above $\frac{z_0}{z_1}$ \longrightarrow = forces 8 to 10;
 \longrightarrow = forces 5 to $\frac{z_1}{z_2}$ \longrightarrow = forces 1 to 4;
 ⊙ = dead calm.

Sea Disturbance—where considerable is shewn thus.

MEAN HEIGHT of the BAROMETER

at 8 a. m., for the month of January

During the 15 Years 1871 ____ 1886

January, 1899.

Low

29.4

29.5

29.6

29.7

29.8

29.9

30.0

30.1

Barometer

decidedly

rising

here

H

G

H

L

O

W

TEMPERATURE, & WEATHER at 8 A. M.,
with RAINFALL in PAST 24 HOURS.

Weather is shown by Letters of the Beaufort Scale.

Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January

1950

fallen H E

COLDER

fallen

W A P O M

DE G

SEVERAL

5.5 snow

10°

20°

30°

14

17

19

21

25

26

35

36

37

38

39

40

42

44

46

48

50

52

54

56

58

60

62

64

66

68

70

72

74

76

78

80

82

84

86

88

90

92

94

96

98

100

NOTE - The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 ins: and more, over the southwestern parts of our Islands and Brittany, and 30.1 ins: and more in a ridge extending thence in an easterly direction, over the Netherlands and Denmark, to the southeast of Sweden. Lowest, 29.7 ins: and less, over the northern half of Scandinavia (29.4 ins: at Bodö) and in the Shetlands — and also over the Gulf of Finca. Gradients slight, but increasing in the north. Barometer falling except in the southwest and south.
TEMPERATURE	Highest, 40° at Malin Head, 39° at Lisbon, Belmullet, and Ardrossan, 38° at Mullaghmore, Valencia, Edinburgh 11 th and Pembroke. (a) 0° (Reo, F.) at Haparanda, 3° at Helsingfors, 9° at Stockholm, 17° at York, 18° at Loughborough and 24° in London. Lowest, (b) 5° at Munich, 14° at Belfast, 16° at Paris, 17° at Brussels, 21° at Hildes and 23° at Berlin. It now has risen fast at our western and some of our northern stations since yesterday, fallen fast over England, France, Germany. Variable from the W ² (SW to NW) over the northern parts of the British Isles — S ² on the eastern shores of the North Sea. Calm over our southwestern and southern districts and the Netherlands. E ² to NE ² over France, the Channel, the Bay of Biscay and the Spanish Peninsula. It is strong to gale at Rochefort and Corunna.
WIND	Fair in most places, with variable amounts of cloud. Rain, however, is falling at Bodö, and slight snow showers at several of our northernmost stations and at Leith. [Some fine snow has fallen at times in several other regions during the past 24 hours]. Dry fog prevails over England.
WEATHER	
SEA	Moderate on our east coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

1. The barometer is now rising at the southwestern and southern stations, and the gradients for NE² winds in those regions will probably disappear shortly.
2. In all northern districts the barometer is falling, and as the change seems to be spreading southwards, the gradients for W² winds now prevalent in the north will probably spread completely over England, Ireland and the Channel, with milder and less settled weather.

FORECASTS

For the 24 hours ending at NOON on 31st JANUARY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying SW to NW winds, becoming showery and less fair; milder.	6 SCOTLAND WEST	Varying W ² (SW to NW) winds, milder, some showery.
1 SCOTLAND EAST	D°-----D°-----D°-----	7 ENGLAND N. W.	D°-----D°-----D°-----
2 ENGLAND N. E.	SW ² and W ² airs and light breezes; fair as a whole, milder.	8 ENGLAND S. W.	Calms and fogs; cold, dry.
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	Same as No 6
4 MIDLAND COUNTIES	Same as No 5.	10 IRELAND SOUTH	Wind becoming S ² or SW ² ; moderate; fair to showery.
5 ENGLAND SOUTH	Calms, variable airs, and fogs, then varying W ² and SW ² breezes, light, fair, milder.	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Day.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	30.06	32	29	E.N.E. 2	60	2	Holyhead ...	30.13	38	35	N.E. 4	60	4
Sumburgh Head							Valencia ...						
Stornoway ...	30.11	39	38	W 3	0	3	Scilly ...						
Aberdeen ...							Dungeness ...	29.94	32	32	E.N.E. 5	S	4
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...	30.16	38	36	W.S.W. 2	0	2	Jersey ...	29.98	38	35	N.W. 3	0	3
Mullaghmore ...							Rocheport ...	30.02	38	36	N.E. 4	0	2
Belmullet ...	30.18	37	36	S.S.E. 3	0	*							

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

The reports for yesterday morning showed that pressure was highest 30.1 ins. to 30.2 ins. over our western coasts, and relatively high 29.9 ins. and upwards over Algeria and Central Russia. Over the more Central and Eastern parts of England however, several shallow depressions were found, the most important of these being situated respectively over North Germany, Southern Austria and the Carinae. Calms or light N. winds prevailed on our North coasts, and fresh N.E. breezes over the Baltic, the South of our Islands and the West of France. Over Central Europe the wind was light and variable, but in the South of France it blew strongly from N.W., while at Odessa and Nevolniff there was a strong N. gale. The weather was fine over the greater part of north-west Europe but snow was falling in the South of Russia, as well as in the northeast of France, the extreme southeast of England and some parts of Germany. Temperature had risen slightly in Spain, the North of Italy and the South of England but fallen elsewhere; readings ranged from 50° and upwards at some of the Mediterranean stations, to 10° or more below zero over Finland and the Baltic provinces. The highest individual readings were 55° at Algiers, 54° at Malta, 53° at Nemours and Oran, 51° at San Fernando and 48° at La Calle and Palermo; the lowest were -17° F. at Helmingfors and St Petersburg, -15° at Uleaborg, -12° at Hango, -9° at Naperanda, -8° at Moscow, -7° at Hernösand, -5° at Kuopio and -1° at Archangel. In the course of the day the high pressure system over the West of our Islands extended eastward and south-eastward, and the fresh N.E. winds in the South and Southeast moderated. In the extreme North and Northwest the barometer fell somewhat and the wind shifted to the S.W. with an increase of cloud.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 22ND TO THE 28TH JANUARY 1888.

The weather of the past week has been changeable and unsettled, and on the 26th a general gale was experienced from the N.W. At the commencement of the time temperature was decidedly high for the season, but the N. winds which set in during the latter part of the week brought about a rapid fall, and at the close of the period sharp frosts were experienced generally. On the 22nd a depression was shown off the West of Norway and a large secondary disturbance to the southwards of that country, but in the course of the ensuing 24 hours these systems travelled away in an easterly direction, and an anticyclone extended over our south-west coasts from the Spanish Peninsula. On the night of the 23rd however a new depression travelled northwards outside our extreme northwest and west coasts, occasioning a strong W. gale in the North of Scotland, and forcing the anticyclone southwards over France. On the 25th a deeper disturbance appeared in the West, and produced S.W. gales at some of our northwest stations. The motion of this system was at first northeasterly, but on the night of the 25th the centre travelled quickly east-south-eastwards from the North of Scotland to the North of Denmark, and in its rear a rapid recovery of pressure took place over our Islands. The wind therefore veered to the N.W. generally and increased to a fresh or strong gale on all our coasts, with cold showers in many places. By 8 a.m. on the 27th the depression had passed away to Russia, but a small shallow disturbance was shown over the West of Norway, and in the course of the ensuing 24 hours this increased in depth and travelled southwards, its passage being attended by strong N.W. or N. winds and snow showers in most parts of the Kingdom. In the North of Scotland the wind reached the force of a gale and the snow was very heavy. On the 28th other shallow systems approached from the northward and very cold weather was experienced generally, with frequent snow showers at some of our northern and eastern stations. At night a sharp frost was experienced over the greater part of the Kingdom.

EXPLANATION OF 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.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 31st January 1888.

Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

Issued by the Meteorological Office, No. 1, Whitehall Street, London, W. 1, on 1st July 1907.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.								PAST 24 HOURS.		
	Barometer at 35° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer Reading at 35° F. and Sea Level.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)			Dry.	Wet.						Max.	Min.		
SCANDINAVIA.																	
Haparanda ..	29.42	22	SE	4	S	29.35	-34	23	23	+23	SW	4	0	*	23	-18	0.28
Hernösand ...	29.62	18	S	4	O	29.50	-36	22	21	+19	SSW	2	0	*	22	-6	-
Stockholm ...	29.93	13	S	4	b	29.86	-16	13	12	+4	SSE	2	0	*	19	7	-
Wisby ...	20.00	21	S	4	C	29.92	-11	18	17	-1	SSE	4	0	*	32	14	-
Bodö ...	29.32	29	N	4	m	29.34	-06	28	26	-7	N	2	S	1	36	27	-
Christiansund...	29.84	37	SW	4	e	29.54	-16	33	32	-1	NE	5	S	4	37	30	0.04
Skudesnaes ...	29.63	36	SSE	7	r	29.54	-36	37	35	+2	SE	6	0	5	?	?	-
Christiania Fjord (Verder)	29.75	31	SW	6	e	29.64	-30	30	29	+4	S	8	0	5	32	?	-
Skagen (The Scaw)	29.83	25	WSW	5	O	29.72	-25	27	27	+5	SSW	4	0	3	27	21	-
Fanö ...	29.88	28	SSE	5	O	29.74	-50	25	25	+3	SSE	5	0	*	28	?	0.08
BRITISH ISLANDS.																	
Sumburgh Head	29.45	37	W	0	O	29.48	-25	38	35	-3	NE	6	r	6	40	33	0.47
Stornoway ...	29.50	40	W	5	O	29.52	-25	36	35	0	NW	10	r	7	41	33	0.50
Wick ...	29.50	37	SW	2	e	29.33	-50	40	39	+6	NE	6	0	3	40	32	0.05
Nairn ...	29.56	38	W	1	e	29.26	-63	39	38	+6	N	6	0	4	40	32	0.14
Aberdeen...	29.65	30	SW	1	e	29.19	-71	30	29	-1	N	1	C	2	40	28	0.15
Leith ...	29.74	34	W	2	e	29.18	-77	35	33	0	NW	2	C	*	42	32	0.01
Shields ...	29.81	35	W	2	e	29.19	-82	33	33	+3	S	3	S	2	39	29	0.06
Spurn Head ...	29.88	32	WSW	4	S	29.33	-68	35	34	+3	SSW	4	C	4	35	30	0.09
York ...	29.85	34	S	1	O	29.27	-79	35	34	+18	S	2	0	*	37	17	0.08
Loughborough	29.93	32	SW	3	O	29.41	-71	34	34	+16	WSW	2	C	*	35	18	0.06
GERMANY.																	
Ardrossan ...	29.76	42	SW	3	O	29.25	-72	37	34	-2	N	3	bc	2	42	36	0.12
Malin Head ...	29.79	42	WNW	4	bcp	29.35	-63	40	39	0	NW	9	oq/p	7	44	29	0.10
Mullaghmore ...	29.91	43	W	4	C	29.55	-52	40	39	+2	NW	7	crnq	6	45	37	0.16
Belmullet ...	29.97	43	NW	3	C	29.72	-38	40	38	+1	N	10	0	*	45	39	0.09
Donaghadee ...	29.87	36	W	3	C	29.27	-76	42	40	+9	NNE	7	bc	4	42	31	0.06
Barrow-in-Furness	29.85	39	WNW	2	O	29.19	-86	39	38	+6	SW	5	0	*	41	33	0.17
Liverpool (Bidston)	29.89	36	W	4	C	29.30	-77	37	35	+4	WSW	6	0	4	40	33	0.14
Holyhead ...	29.92	40	WNW	1	c/p	29.38	-70	40	38	+3	WNW	6	oq/m	6	42	35	0.09
Parsonstown ...	30.00	39	W	0	e	29.62	-31	35	33	+4	W	1	0	*	42	30	0.09
Valencia ...	30.06	44	WNW	2	c/p	29.77	-40	42	38	+4	N	5	cq	5	48	37	0.08
Roche's Point...	30.04	43	WNW	3	e	29.66	-49	40	37	+5	NW	5	C	4	45	34	-
Pembroke ...	29.98	41	W	2	bc	29.52	-62	40	39	+2	NW	5	b	5	43	35	0.15
Seilly ...	30.04	42	WNW	5	Op	29.60	-54	45	44	+10	NW	6	oq/p	6	45	34	0.20
Prawle Point ...	29.95	33	NW	2	S	29.55	-62	41	39	+4	W	4	cq	3	42	27	0.12
Jersey ...	30.08	35	WNW	2	bc	29.67	-45	42	40	+7	WSW	6	cq/m	5	42	32	0.01
FRANCE & NETHERLANDS.																	
Hurst Castle ...	30.02	34	WNW	1	O	29.56	-58	40	40	+16	WSW	5	C	2	40	22	0.07
Dungeness ...	30.02	30	W	1	bc	29.57	-50	37	37	+11	SW	6	r	5	37	22	0.02
London ...	29.99	32	W	2	bc	29.50	-60	36	35	+12	S	2	OT	*	36	24	0.03
Oxford ...	29.94	31	SW	2	S	29.45	-69	36	35	+15	SW	3	r	*	36	21	0.06
Cambridge ...	29.95	33	S	1	C	29.47	-64	34	33	+11	S	1	S	*	36	23	0.02
Yarmouth ...	29.98	30	SW	3	e	29.48	-58	34	33	+6	SSW	4	oq	3	34	26	-
Cuxhaven ...	30.06	24	SW	2	O	29.90	-11	20	19	-5	S	3	m	*	?	16	-
Berlin ...	30.05	24	W	0	O	29.94	-02	21	20	-2	SE	1	0	*	28	21	-
Wiesbaden ...	*	*	*	*	*	29.90	-14	18	18	-1	NE	2	0	*	28	16	-
Munich ...	29.88	15	SE	1	O	29.83	-09	12	11	+7	SW	5	0	*	18	?	0.04
PENIN. ISLS.																	
The Helder ...	29.91	26	S	1	O	29.68	-41	24	23	+3	S	5	0	3	28	21	-
Brussels ...	*	*	*	*	*	29.76	-30	19	18	+2	S	3	0	*	20	13	-
Cape Gris Nez...	30.01	24	SSE	4	bc	29.62	-44	29	29	+4	SW	7	0	5	30	?	-
Paris ...	30.10	27	N	1	b	29.87	-16	18	18	+2	S	1	0	*	23	11	-
Brest ...	30.12	35	W	0	C	29.80	-34	44	41	+12	W	7	0	5	46	28	0.12
Lorient ...	30.11	35	W	0	b	29.82	-31	43	39	+12	WNW	7	0	4	?	28	-
Rochefort ...	30.11	30	NNE	5	b	30.00	-06	31	29	+7	SSE	5	0	2	41	19	-
Belfort ...	29.93	17	E	1	b	29.88	-03	13	9	-1	E	1	S	*	23	2	-
Lyons ...	29.99	20	NW	2	b	29.99	+07	12	12	-9	ENE	1	m	*	29	11	-
Nice ...	29.78	34	ENE	1	C	29.67	-06	29	25	-2	E	3	b	3	45	25	-
Perpignan ...	29.91	33	NW	4	C	29.91	+05	26	24	-3	NW	5	b	*	43	26	-
Biarritz ...	30.04	32	ENE	7	O	30.04	+13	27	26	-3	S	4	b	2	36	23	-
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.98	42	WNW	5	b	30.08	+19	36	39	-3	NNE	5	b	2	48	36	-

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Tuesday, 31st January, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map.)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feather's refer to force, thus —

→ = forces above 20; →→ = forces 8 to 10;
→→ = forces 5 to 7; →→ = forces 1 to 4;
○ = dead calm.

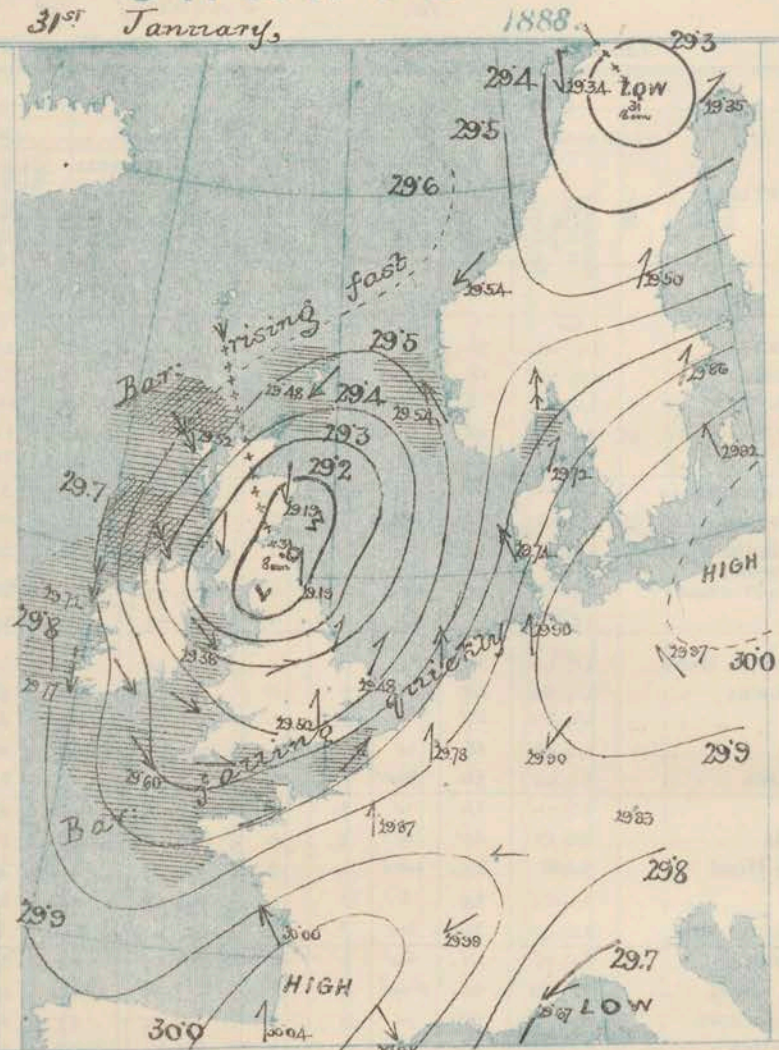
Sea Disturbance — where considerable is shown thus.

■ = Rough; ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of January.
During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head.	29.685
Stornoway.	29.687
Wick.	29.725
Nairn.	29.753
Aberdeen.	29.790
Leith.	29.820
Shields.	29.856
York.	29.935
Loughborough.	29.907
Ardrossan.	29.840
Donsghadee.	29.851
Holyhead.	29.896
Liverpool.	29.922
Parsonstown.	29.886
Valencia.	29.860
Roche's Point.	29.894
Pembroke.	29.926
Scilly.	29.960
Jersey.	30.010
Hurst Castle.	29.997
Dover.	30.017
LONDON.	30.007
Oxford.	29.997
Cambridge.	29.993
Yarmouth.	29.981



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

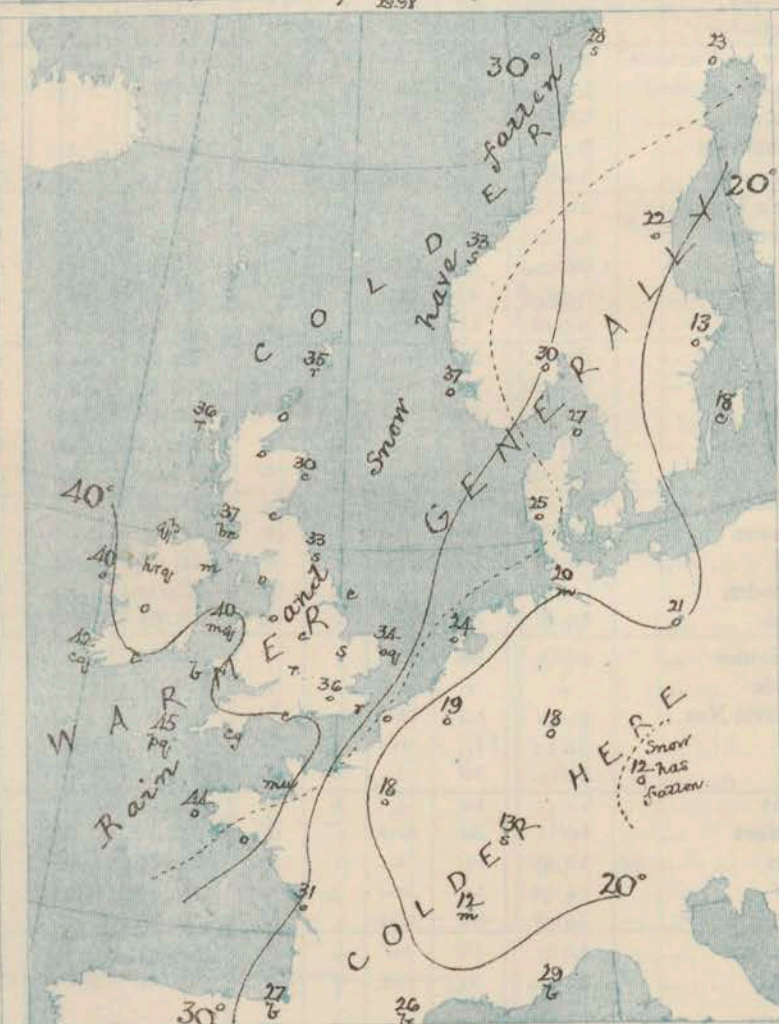
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of January.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head.	42.9	35.4	39.4	35.2	3.06
Stornoway.	43.0	34.2	39.9	37.8	5.17
Wick.	42.2	33.2	37.9	36.4	1.97
Nairn.	41.9	32.7	36.6	35.0	2.02
Aberdeen.	42.4	33.3	37.1	35.1	3.84
Leith.	44.6	32.7	35.2	36.8	1.98
Shields.	33.1	34.7	38.0	36.7	1.73
York.	43.2	33.1	36.5	35.9	1.88
Loughborough.	43.5	32.9	36.5	35.5	2.08
Ardrossan.	44.4	36.4	39.8	38.5	4.53
Donsghadee.	44.4	36.3	39.9	39.1	3.03
Holyhead.	45.9	39.0	41.7	40.1	3.19
Liverpool.	43.9	35.0	38.7	37.1	2.23
Parsonstown.	46.0	34.6	39.0	37.9	3.09
Valencia.	49.8	40.5	44.3	43.3	6.72
Roche's Point.	47.9	39.7	43.2	42.0	5.63
Pembroke.	45.8	39.9	42.8	41.2	3.02
Scilly.	49.1	43.3	46.5	45.0	3.93
Jersey.	46.0	38.7	41.7	40.4	3.24
Hurst Castle.	45.3	37.0	40.4	39.7	3.10
Dover.	43.7	36.6	39.4	38.2	2.68
LONDON.	44.8	34.4	37.9	36.8	2.20
Oxford.	43.8	34.4	37.5	36.5	2.33
Cambridge.	43.9	32.6	36.5	35.7	1.57
Yarmouth.	41.9	34.5	37.7	36.9	2.06

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1868-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	(30° 0' in: and more, over Portugal, the southwest of France, and apparently over North Germany and the Baltic. Highest, 29.7 in: and more off the west of Ireland, and about 29 in: to the westward of Christiansund. Lowest, 29.2 in: and less, in a depression, the centre of which lies over the extreme north of England and the southeast of Scotland, and 29.3 in: in another depression over Lapland. Gradient steep for cyclonic winds over our Islands, slight and variable over France Germany. Barometer falling fast in S. and E. rising fast in far north.
TEMPERATURE	Highest, 45° at Sicily, 44° at Brest, 42° at Valencia and Jersey and 40° at Wick, Malin, K. Mullaghmore and Kilmullit. Lowest, 12° at Lyons and Munich, 13° at Belfast and Stockholm, 18° at Paris, Wiesbaden and Mainz, 19° at Brussels, 21° at Berlin, 23° at Haparanda, and 23° at Nise.
WIND	SE ⁴ , strong in the south of Norway. S ³ , moderate over the North Sea and east of England. SW ³ to W ³ , strong in the Channel and south of England, NW ³ on our southwest coast. N ³ , strong to a strong gale in the northwest.
WEATHER	(Dull and squally except on our northeast coasts, very unsettled generally, with rain, sleet and hail in many places, and snow in several others. A good deal of rain and sleet has fallen in the north of Scotland, elsewhere the fall, at present, has been slight.
SEA	High in the extreme north and northwest, rough in the west and southwest, rather rough in the Channel, slight or smooth along our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

1. The high pressure band which lay over the southern part of our Islands and the Netherlands yesterday is moving SE⁴ and hard frost prevails over Central Europe and the greater part of France.
2. The depression in the northeast is moving southwards and the N³ gales in its rear will probably reach our southern and eastern coasts during the coming 24 hours. Later on a temporary improvement is probable with a fresh fall of temperature over our Islands.

FORECASTS

For the 24 hours ending at NOON on 1st February. 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
10 SCOTLAND NORTH	N ³ gales and snow, moderating later, but becoming colder.	6 SCOTLAND WEST	Strong N ³ gales, with snow and sleet; improving later and becoming colder.
11 SCOTLAND EAST	.....D°.....D°.....P°.....	7 ENGLAND N. W.	.....D°.....D°.....D°.....
12 ENGLAND N. E.	.....D°.....D°.....D°.....	8 ENGLAND S. W.	NW ³ and N ³ winds, strong to a strong gale; snow squalls, moderating later and becoming colder.
13 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	.....D°.....D°.....D°.....
14 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	.....D°.....D°.....D°.....
15 ENGLAND SOUTH	Wind veering from SW to W or NW, increasing to a gale, with squalls of snow and sleet.	WARNINGS	
		The N cone was hoisted last evening in districts 0, 6, 9, and parts of land 7, and in all other districts this morning.	

Note.—The South Cone, point downwards (11) 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 (11) 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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes ...	29.77	36	35	S 6	C	4	Holyhead ...	29.99	38	31	WNW 2	OSP	2
Sumburgh Head ...	29.60	38	35	WNW 2	C	2	Valencia ...	30.10	46	43	W 3	SP	3
Stornoway ...	29.73	41	41	SW 4	C	3	Scilly ...	30.09	41	36	WNW 2	C	4
Aberdeen ...	29.79	37	35	WNW 2	C	2	Dungeness ...	30.04	32	31	S 1	OC	1
Shields ...	29.87	36	34	W 2	C	3	London ...	30.04	36	32	W 1	CM	*
Ardrossan ...	29.88	42	40	SW 0	C	1	Yarmouth ...	30.01	33	32	WSW 2	C	2
Malin Head ...	29.92	42	41	NW 3	C	3	Jersey ...	30.09	39	34	N 3	C	3
Mullaghmore ...	30.00	45	43	W 2	OC	2	Rochefort ...	30.08	38	30	NE 4	C	2
Belmullet ...	30.04	45	42	WNW 3	OC	*							

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

The reports for yesterday morning showed that areas of high pressure, in which readings exceeded 30.1 ins. were lying respectively over the southwest of our Islands and Central Russia the two systems being connected by a broad anticyclonic band which extended over the whole of Central Europe. The lowest pressures 29.4 ins. and less were found in a small depression which had appeared off the north of Norway, but rather low readings 29.7 ins. and less, were reported in Italy and a portion of Algeria. The wind was SW over the northern parts of Scandinavia and the west and north of our Islands as well as over the north of Austria; in France, however, it was chiefly NE, while in Italy and Russia it was very variable. The weather was fair over the greater part of the Continent, but rain was falling at Porto and also at Naples, while snow was reported at some of our northern stations as well as at Wisby and Rome. Temperature had risen in the extreme west and north of our Islands and also in Norway, but fallen elsewhere; readings ranged from 50° and upwards in the north of Algeria, and on the shores of the Mediterranean generally to more than 20° below zero in Finland. The highest individual readings were 54° at Palermo, 53° at Remous and Oran, 52° at La Gelle, 51° at Algiers and 50° at Tunis, Ifos and Boudia; the lowest were -27° F. at Kaspio, -21° at Helsingfors, -18° at Hango, -13° at Archangel, -6° at St. Petersburg, -5° at Uleaborg, -1° at Moscow, 0° at Haparanda and +3° at Hernösand.

In the course of the day the barometer fell briskly in the north of our Islands and W winds extended over the whole Kingdom. Snow or sleet was experienced in many parts of England during the evening.

EXPLANATION OF 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.

+ The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR JAN^y 1888

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sec. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force, (0 to 12.)			Max.	Min.			
1	Corunna...	*	*	*	*	*	29.35	-	53	51	-	SE	3	0	2	55	43	0.04		
2	Paris.....	29.62	24	NE	1	b	29.55	-25	38	35	+24	S	3	0	*	?	13	-		
	Corunna...	*	*	*	*	*	29.63	+28	53	49	0	W	4	0	4	59	48	0.43		
3	Belfort.....	29.91	34	W	3	0	30.00	-	34	34	-	W	1	6c	*	40	28	-		
	Lyons.....	29.83	43	SSW	1	0	30.13	+42	36	34	-2	W	1	0	*	?	35	0.08		
	Perpignan...	29.85	49	SE	3	0	30.12	+46	45	44	-5	N	3	0	*	56	43	0.04		
	Corunna...	*	*	*	*	*	29.99	+36	50	47	-3	SE	3	6c	4	54	45	-		
4	The Helder...	30.13	34	WNW	1	b	30.14	+48	31	-	-2	S	1	f	1	39	30	-		
	Belfort.....	30.21	48	W	1	6c	30.23	+23	30	29	-7	E	1	6c	*	39	24	-		
	Corunna...	*	*	*	*	*	29.65	-34	56	51	+6	ESE	5	0	4	59	48	-		
5	Corunna...	*	*	*	*	*	30.10	+45	46	45	-10	WNW	3	6c	5	61	43	0.16		
6	Belfort.....	30.21	29	W	1	T	30.32	+22	35	35	+7	W	1	f	*	35	?	0.04		
	Corunna...	*	*	*	*	*	30.20	+10	44	46	+1	SSW	1	6c	6	55	43	-		
7	Belfort.....	30.33	34	W	1	0	30.45	+13	35	34	0	W	1	f	*	34	31	0.12		
	Perpignan...	30.42	45	NW	2	b	30.45	+09	44	41	+1	NW	3	0	*	55	34	-		
	Corunna...	*	*	*	*	*	30.60	+40	52	-	+5	SSE	1	0	4	59	45	-		
9	Corunna...	*	*	*	*	*	30.56	-10	44	41	+2	NE	1	6	4	54	34	-		
10	Corunna...	*	*	*	*	*	30.56	00	41	39	-3	ESE	3	6	1	64	34	-		
11	Corunna...	*	*	*	*	*	30.34	-19	43	41	+2	E	4	6	4	54	34	-		
12	Corunna...	*	*	*	*	*	30.56	+19	44	43	+1	E	3	0	4	54	41	-		
14	Corunna...	*	*	*	*	*	30.14	-19	48	45	+9	NNE	8	6	5	54	36	-		
16	Lyons.....	30.29	24	N	1	0	30.39	+14	24	-	+5	E	1	0	*	28	?	-		
	Corunna...	*	*	*	*	*	30.04	00	45	43	+7	NE	1	0	4	52	34	-		
17	Corunna...	*	*	*	*	*	30.04	00	49	44	+4	SE	4	T	4	52	43	-		
18	Paris.....	30.04	31	NE	3	6c	30.48	+01	22	22	-2	NE	1	6	*	39	21	-		
	Brest.....	30.29	44	SE	4	0	30.31	+07	34	35	-3	SE	5	0	5	46	?	-		
	Belfort.....	30.44	25	E	1	b	30.44	+01	23	23	+3	E	1	0	*	29	16	-		
	Nice.....	30.44	34	E	1	b	30.40	-05	35	30	+1	E	1	6c	1	45	32	-		
	Perpignan...	30.34	49	E	3	0	30.35	-03	46	45	+3	SE	3	T	*	54	?	-		
	Corunna...	*	*	*	*	*	30.23	+16	54	54	+5	S	4	T	4	54	46	0.16		
19	Paris.....	30.54	28	NE	1	b	30.63	+15	20	20	-2	NE	3	6	*	36	19	-		
	Brest.....	30.58	13	S	5	0	30.49	+18	38	34	+1	SE	5	0	5	45	28	-		
	Belfort.....	30.49	22	E	1	0	30.56	+09	19	19	-4	NE	3	0	*	26	16	-		
	Nice.....	30.36	41	2	0	b	30.40	00	35	30	0	ESE	1	6	1	48	32	-		
	Perpignan...	30.43	43	NNE	3	6c	30.45	+10	31	31	-15	E	3	6	*	44	31	0.16		
	Corunna...	*	*	*	*	*	30.43	+20	53	52	-1	SSW	1	0	2	61	48	0.04		
20	Corunna...	*	*	*	*	*	30.49	+06	48	45	-5	S	3	6	?	64	45	-		
21	The Helder...	30.44	35	hsw	1	c	30.23	-25	32	-	-3	SSW	3	f	3	34	32	-		
	Corunna...	*	*	*	*	*	30.51	+02	45	45	-3	S	1	f	2	64	41	-		
23	Nice.....	29.86	41	ESE	1	6c	29.92	-16	40	38	+1	ESE	3	6	1	50	36	-		
	Corunna...	*	*	*	*	*	30.45	-03	53	52	+3	?	5	0	5	54	48	0.08		
24	Corunna...	*	*	*	*	*	30.46	+01	51	-	-2	NW	4	6c	4	54	48	0.16		
25	Corunna...	*	*	*	*	*	30.44	+01	44	42	-7	ESE	5	6	4	54	44	-		
26	Corunna...	*	*	*	*	*	30.50	+03	44	43	0	NE	1	0	4	63	34	-		
27	Corunna...	*	*	*	*	*	30.44	-03	43	42	-1	NE	1	6	4	55	39	-		
28	Corunna...	*	*	*	*	*	30.13	-34	41	39	-2	ESE	3	6	4	59	34	-		
31	Corunna...	*	*	*	*	*	30.01	00	38	32	-9	ESE	1	6	4	46	?	-		

Continued.

SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC REPORTING
Observations are made at 8 a.m. daily, but the numbers of days of Rain, Snow, Hail,
(The Stations are grouped in Districts, and then arranged in order of

Names of Districts.	Names of Stations.	Mean height of Barometer (at 32° Fahrenheit and Mean Sea Level) from observations made at 8 a.m.	Air Temperature.								Tension of Vapour
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
		ins.	°	°	°	°	°		°		ins.
0. SCOTLAND, N.	{ Sumburgh Head ...	29.961	40.5	36.5	43.6	40.1	23	27 th + 28 th	50	10 th	0.235
	{ Wick ...	30.020	38.7	33.7	43.7	38.7	22	20 th	54	7 th 8 th + 10 th	.221
	{ Stornoway ...	29.998	41.8	36.7	44.7	40.7	25	19 th	52	7 th + 8 th	.257
1. SCOTLAND, E.	{ Nairn ...	30.028	38.0	33.1	44.3	38.7	16	19 th	56	9 th	.199
	{ Aberdeen ...	30.065	37.1	32.7	43.1	37.9	22	20 th	56	9 th	.194
	{ Leith ...	30.099	40.7	36.6	45.7	44.2	25	19 th + 20 th	57	9 th	.226
2. ENGLAND, N.E.	{ Shields ...	30.130	39.0	34.4	43.6	39.0	25	20 th 21 st 30 th	56	9 th	.214
	{ York ...	30.187	36.6	32.1	43.1	37.6	14	30 th	55	8 th + 9 th	.197
	{ Spurn Head ...	30.173	38.0	34.6	42.6	38.6	28	20 th 28 th + 30 th	54	8 th	.208
3. ENGLAND, E.	{ Yarmouth ...	30.200	37.2	33.5	41.4	37.5	26	30 th + 31 st	53	9 th	.202
	{ Cambridge ...	30.233	35.6	30.6	43.2	36.9	20	21 st	58	9 th	.193
4. MIDLAND COUNTIES.	{ Loughborough ...	30.217	35.5	31.8	42.7	37.3	18	30 th + 31 st	57	8 th	.191
	{ Oxford ...	30.248	35.6	32.1	41.7	36.9	21	30 th + 31 st	54	23 rd	.192
5. ENGLAND, S.	{ London ...	30.244	36.7	33.5	43.2	38.4	24	1 st 2 nd 30 th 31 st	51	5 th 6 th 8 th 21 st 23 rd	.200
	{ Dungeness ...	30.225	37.5	34.2	42.4	38.3	22	31 st	50	7 th + 23 rd	.210
	{ Hurst Castle ...	30.248	38.2	33.3	43.3	38.3	21	30 th	51	22 nd	.218
6. SCOTLAND, W.	Ardrossan ...	30.119	40.6	36.7	44.5	40.6	26	19 th 29 th + 30 th	52	7 th	.234
7. ENGLAND, N.W.	{ *Hawes Junction ...	28.894	34.6	30.1	39.6	34.9	18	19 th	52	10 th	.200
	{ Barrow-in-Furness ...	30.158	38.5	35.6	42.1	38.9	29	19 th 20 th + 29 th	47	8 th	.215
	{ Liverpool Obs ^y (Bidston) ...	30.190	38.4	35.2	43.1	39.2	28	2 nd	53	9 th	.206
	{ Holyhead ...	30.177	40.7	38.1	44.7	41.4	28	19 th	51	4 th	.235
8. ENGLAND, S.W.	{ Pembroke ...	30.214	41.1	38.1	43.9	41.0	29	16 th	49	3 rd + 22 nd	.236
	{ Prawle Point ...	30.249	41.3	36.7	45.9	41.3	24	30 th	55	23 rd	.243
9. IRELAND, N.	{ Malin Head ...	30.092	41.2	38.2	44.9	41.6	29	31 st	54	9 th	.246
	{ Donaghadee ...	30.141	41.9	38.3	45.4	41.9	30	29 th + 30 th	53	25 th	.244
	{ Mullaghmore ...	30.125	42.2	38.6	47.4	43.0	26	29 th	59	9 th	.237
	{ Belmullet ...	30.126	42.8	39.6	46.2	42.9	27	29 th	54	9 th + 20 th	.242
10. IRELAND, S.	{ Parsonstown ...	30.181	40.1	35.4	46.1	40.8	18	30 th	55	9 th	.219
	{ Valencia ...	30.175	45.5	41.5	49.2	45.4	28	16 th	55	20 th	.266
	{ Roche's Point ...	30.192	43.4	40.5	46.9	43.7	30	30 th	53	24 th	.251
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ..	30.207	45.4	41.6	47.4	44.5	33	30 th	51	3 rd 4 th 6 th 7 th 8 th 21 st + 23 rd	.271
	{ Jersey (Noirmont) ...	30.277	41.4	37.4	45.3	41.4	27	1 st	51	5 th	.231
* Hawes Junction is 1185 feet above mean Sea Level and the											

* Hawes Junction is 1185 feet above mean Sea Level and the

STATIONS in the BRITISH ISLANDS during the Month of JANUARY. 1888.
 Thunderstorms and Gales are counted irrespective of the hours at which they occurred.
 Latitude, beginning in each case with the Station lying furthest North.)

Relative Humidity	Amount of Cloud	Rainfall.			Weather							Wind									
		Total Fall in the month	Maximum Fall in one day	Date	No. of Days of							No. of Observation of									
					Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms	
%		ins.	in.																		
94	8.7	3.32	0.47	30 th	27	2	0	0	1	23	0	3	1	0	2	3	4	9	2	7	
94	6.4	1.95	0.30	24 th	20	3	0	0	8	13	3	4	1	0	0	8	7	3	4	4	
98	9.3	4.10	0.83	3 rd	21	3	1	0	1	27	9	1	0	1	0	2	13	6	3	5	
87	6.0	1.70	0.39	25 th	17	5	0	0	8	10	1	1	0	0	0	1	5	8	1	15	
88	5.9	1.76	0.24	32 nd +25 th	20	4	1	0	7	11	4	3	0	0	1	6	5	11	4	1	
89	6.1	1.56	0.53	25 th	14	4	0	0	6	8	1	2	1	0	4	2	0	16	5	1	
90	8.1	1.18	0.45	31 st	12	5	0	0	2	17	2	2	0	3	1	7	8	6	3	1	
91	6.5	0.72	0.14	1 st	15	1	0	0	10	16	0	3	1	4	2	11	1	7	1	1	
91	5.5	0.59	0.15	28 th	12	4	0	0	4	6	4	1	2	4	1	7	6	7	2	2	
91	5.3	1.04	0.22	27 th	16	4	1	0	9	5	3	1	2	3	0	5	4	8	6	2	
93	6.9	0.56	0.21	21 st	10	4	0	0	9	19	0	2	2	3	0	8	7	4	3	2	
91	8.1	0.63	0.14	20 th	14	4	0	0	2	18	2	1	1	6	6	3	5	5	3	1	
92	6.9	0.74	0.21	2 nd	13	3	0	0	9	19	0	0	3	2	1	7	8	3	3	4	
92	7.3	0.97	0.30	2 nd	7	1	1	0	6	18	2	2	2	5	1	6	4	6	3	2	
93	7.4	1.15	0.27	31 st	15	3	0	0	5	14	2	4	2	4	3	1	4	7	5	1	
95	5.6	1.11	0.22	2 nd	7	0	0	0	8	7	4	3	4	7	1	2	5	5	3	1	
93	7.0	2.28	0.55	5 th	18	2	1	0	5	16	4	4	4	4	2	5	5	2	3	2	
99	7.7	4.17	0.83	25 th	24	6	0	0	6	22	0	0	4	4	2	10	5	4	1	1	
93	7.7	1.58	0.37	20 th	19	2	0	0	2	18	3	2	7	4	4	1	8	0	5	0	
89	7.0	1.29	0.22	20 th	18	2	2	0	8	18	1	1	0	4	4	3	6	5	2	0	
92	7.5	1.46	0.38	3 rd	17	0	0	0	4	15	2	1	3	3	2	5	7	5	2	3	
92	7.2	1.78	0.54	20 th	19	1	0	0	5	18	2	1	2	6	5	5	5	2	5	0	
94	7.9	1.83	0.53	20 th	18	3	1	0	4	20	2	4	4	6	2	2	4	6	3	0	
95	7.2	3.23	1.00	24 th	16	1	1	0	5	19	3	1	0	1	5	11	5	3	5	0	
92	6.6	3.27	0.48	1 st +4 th	14	1	0	0	7	15	4	2	2	4	2	7	5	8	1	0	
88	6.5	3.31	1.60	4 th	17	1	2	0	8	12	10	1	0	4	4	4	11	3	2	2	
88	6.8	3.18	0.85	4 th	17	0	0	0	9	20	4	2	0	5	5	6	7	4	2	0	
89	7.8	1.98	0.57	4 th	12	2	0	0	5	20	0	0	0	1	5	3	2	1	1	18	
86	7.8	3.92	1.52	4 th	19	0	1	0	4	19	8	3	2	5	8	5	3	3	1	1	
89	7.7	5.19	1.45	3 rd	16	0	0	0	5	20	2	4	1	4	4	6	4	5	3	0	
90	9.0	1.86	0.40	20 th	22	0	1	0	1	24	5	2	2	7	4	4	5	4	3	0	
89	7.0	1.98	0.46	21 st	20	3	1	0	4	14	5	4	5	5	2	3	3	5	4	0	
Barometric Observations at this Station are not corrected for altitude.																					

Barometric Observations at this Station are not corrected for altitude.

2. CORRECTIONS.

[illegible]