

METEOROLOGICAL OFFICE

LONDON.

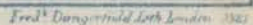
DAILY WEATHER REPORTS.

1ST JANUARY—30TH JUNE.

1887.

January to June, 1887.

January to June, 1887.



DAILY WEATHER REPORT.

for Saturday 1st January 1887

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 ..	30.36	6	Z	0	0	30.26	-06	28	28	+13	S	6	0	*	2	-4	In.												
Hernösand ...	30.54	15	Z	0	0	30.46	-02	12	12	+7	Z	0	0	*	16	-4	-												
Stockholm ...	30.56	25	Z	0	bc	30.50	+03	6	5	+1	Z	0	5	*	?	5	-												
Wisby ...														*			-												
Bodö ...	30.14	39	SSW	5	b	29.95	-14	42	40	+10	SSW	6	c	3	?	?	-												
Christiansund...	30.27	34	SSE	4	b	30.15	-12	40	36	+5	SSE	2	0	4	41	32	0.08												
Skudesnaes ...	30.47	37	SSE	8	0	30.39	-10	39	37	+4	SSE	6	0	4	?	?	-												
Christiania Fjord (Fjorder)	30.57	19	Z	0	f	30.54	00	17	17	0	Z	0	f	1	19	14	-												
Skagen (The Scaw)	30.58	26	S	1	0	30.52	-01	25	24	+1	SE	1	0	1	27	23	-												
Fanö ...	30.54	17	NE	2	m	30.46	-07	24	24	+10	ESE	2	0	*	27	?	-												
BRITISH ISLANDS.																													
Sumburgh Head	30.16	43	S	2	n	30.09	-19	44	43	+5	S	1	0	2	45	37	0.20												
Stornoway ...	30.15	45	SSW	6	m	30.03	-20	45	45	+3	SSW	6	gd	6	46	41	0.08												
Wick ...	30.17	40	SW	2	n	30.11	-16	42	41	+3	SW	2	0	1	42	38	0.18												
Nairn ...	30.21	41	WSW	3	n	30.12	-18	42	41	+3	SW	1	c	1	43	37	0.01												
Aberdeen...	30.32	38	SSW	4	0	30.19	-21	39	37	+6	SW	2	c	1	41	32	-												
Leith ...	30.40	40	SW	1	m	30.26	-20	41	39	+8	SW	2	c	*	41	29	-												
Shields ...	30.49	32	SW	1	b	30.35	-18	31	30	+2	SW	3	0	2	37	26	-												
Spurn Head ...	30.56	34	SSW	1	b	30.44	-11	30	28	-4	SSW	2	b	2	41	34	-												
York ...	30.55	32	S	1	b	30.41	-15	23	23	-2	SSE	1	f	*	34	23	-												
Loughborough	30.59	25	SSE	1	m	30.47	-11	17	17	-3	SSW	1	f	*	30	17	-												
GERMANY.																													
Ardrossan ...	30.39	42	SSE	4	0	30.26	-18	43	43	+5	SSW	3	c	2	43	37	0.11												
Malin Head ...	30.25	41	SSW	4	0	30.12	-23	42	41	+2	SSW	4	ogm	3	42	39	0.10												
Mullaghmore ...	30.30	45	S	5	0	30.16	-21	45	42	+1	SSW	6	0	4	46	42	0.01												
Belmullet ...	30.28	46	S	5	0	30.12	-22	47	45	+2	SSW	6	0	*	47	45	-												
Donaghadee ...	30.42	41	N	2	c	30.27	-19	39	38	+4	SW	3	c	1	42	32	-												
Barrow-in-Furness	30.49	35	ESE	2	0	30.37	-14	30	29	+2	SE	4	0	*	36	28	-												
Liverpool (Bidston)	30.52	31	SE	2	b	30.39	-15	25	24	0	SE	3	b m	3	33	25	-												
Holyhead ...	30.49	40	S	3	b	30.35	-16	37	36	+1	S	4	b	3	41	36	-												
Parsonstown ...	30.40	43	SE	1	0	30.26	-19	40	39	+2	SSE	1	c	*	43	36	-												
Valencia ...	30.38	46	SE	6	n	30.21	-22	48	45	+1	S	6	og	6	48	45	0.12												
Roche's Point...	30.43	47	SSW	4	0	30.31	-16	46	43	0	SW	5	0	4	48	45	-												
Pembroke ...	30.47	41	SSE	3	bc	30.38	-15	38	36	0	SE	4	bc	3	44	36	-												
Scilly ...	30.46	45	ESE	3	c	30.33	-15	43	41	0	SE	3	0	3	49	40	-												
Prawle Point ...	30.53	39	NNE	2	c	30.41	-13	31	30	-4	N	2	c	2	43	30	-												
Jersey ...	30.48	38	NE	2	b	30.38	-12	32	31	-5	ESE	1	b m	1	42	31	-												
FRANCE & NETHERLANDS.																													
Hurst Castle ...	30.55	33	NE	3	m	30.43	-11	25	25	-6	NE	1	m	1	35	24	-												
Dungeness ...	30.60	38	E	5	c	30.40	-14	33	31	0	E	4	bc	2	39	31	-												
London ...	30.57	25	NE	1	b m	30.45	-10	22	21	-8	Z	0	f	*	37	22	-												
Oxford ...	30.59	22	NW	1	f	30.48	-11	15	15	-10	Z	0	f	*	29	15	-												
Cambridge ...	30.68	32	NW	1	m	30.48	-11	14	13	-17	Z	0	b	*	32	13	-												
Yarmouth ...	30.55	35	ESE	1	b	30.44	-10	30	29	-6	Z	0	bc f	4	38	28	-												
Cuxhaven ...	30.53	29	NE	2	f	30.49	+01	24	23	-6	Z	0	f	*	?	23	-												
Berlin ...	30.43	26	NW	3	S	30.32	-04	29	28	-3	NW	2	0	*	32	?	-												
Wiesbaden ...	*	*	*	*	*	30.34	-01	27	26	-8	NE	3	0	*	37	27	-												
Munich ...	30.25	22	E	4	0	30.16	-01	20	20	-5	NE	4	S	*	28	19	0.04												
PENIN. SULA.																													
The Helder ...	30.37	30	ESE	1	b	30.26	-07	27	27	-8	ESE	1	f	1	36	27	-												
Brussels ...	*	*	*	*	*	30.41	-08	25	25	-7	ESE	3	0	*	33	24	-												
Cape Gris Nez...																	-												
Paris ...	30.40	32	NE	5	b	30.24	-07	26	24	-6	NE	3	b	*	37	26	-												
Brest ...	30.50	37	NE	4	b	30.27	-13	32	30	-4	E	3	b	3	48	32	-												
Lorient ...	30.51	39	ESE	5	b	30.36	-15	29	27	-9	NE	3	b	2	46	28	-												
Rochefort ...	30.42	37	NNE	7	0	30.31	-14	31	30	-4	NE	8	b	2	41	25	-												
Belfort ...														*			-												
Lyons ...	30.12	32	N	7	0	30.15	-04	27	24	-6	N	3	0	*	36	26	-												
Nice ...	29.88	41	E	1	c	29.88	+04	38	37	+2	E	4	c	3	46	34	-												
Perpignan ...	30.13	36	NW	8	0	30.02	-13	35	31	-2	NW	4	bc	*	44	34	-												
Biarritz ...	30.30	37	NE	7	c	30.19	-19	32	30	-5	SE	2	0	2	43	30	-												
Corunna ...	*	*	*	*	*												-												
Lisbon ...																	-												

† At Bristol the Maximum was only 30°

† At Brighton the Maximum was only 30°

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Saturday, 1st January.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch changes since previous evening 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; →→ = forces 8 to 10;
→→ = forces 5 to 7; →→ = forces 1 to 4;
○ = dead calm.

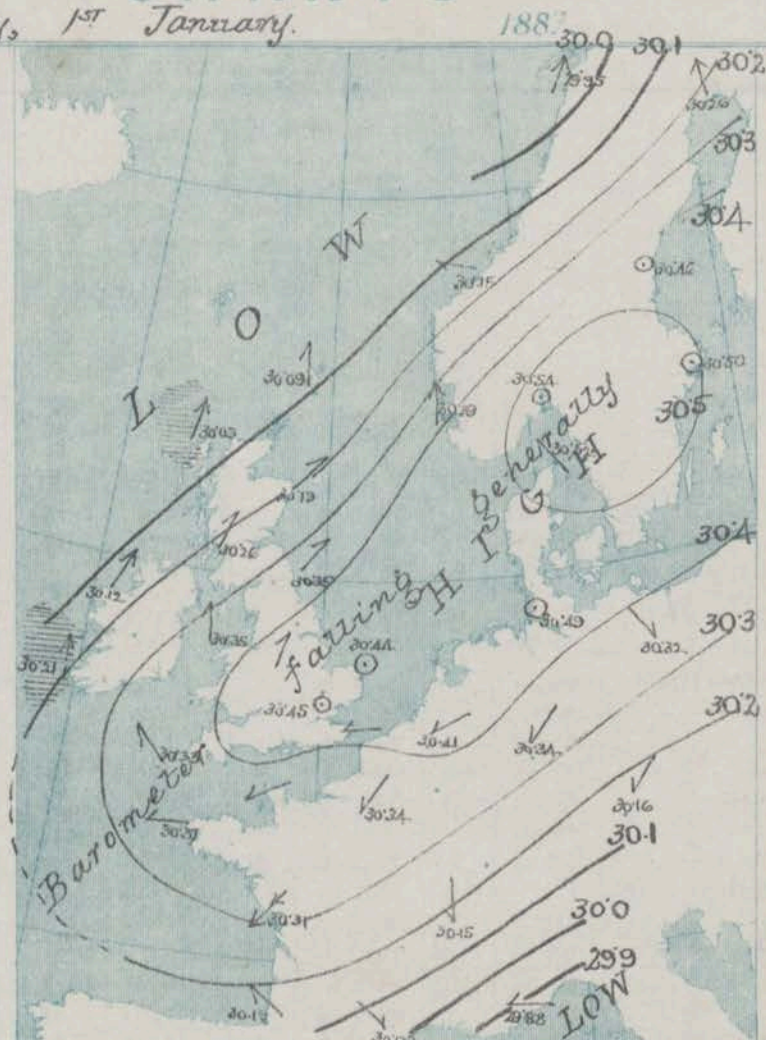
Sea Disturbance — where considerable is shown thus

▨ = 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
	in.
Sumburgh Head	29.861
Stornoway	29.857
Wick	29.857
Nairn	29.729
Aberdeen	29.753
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

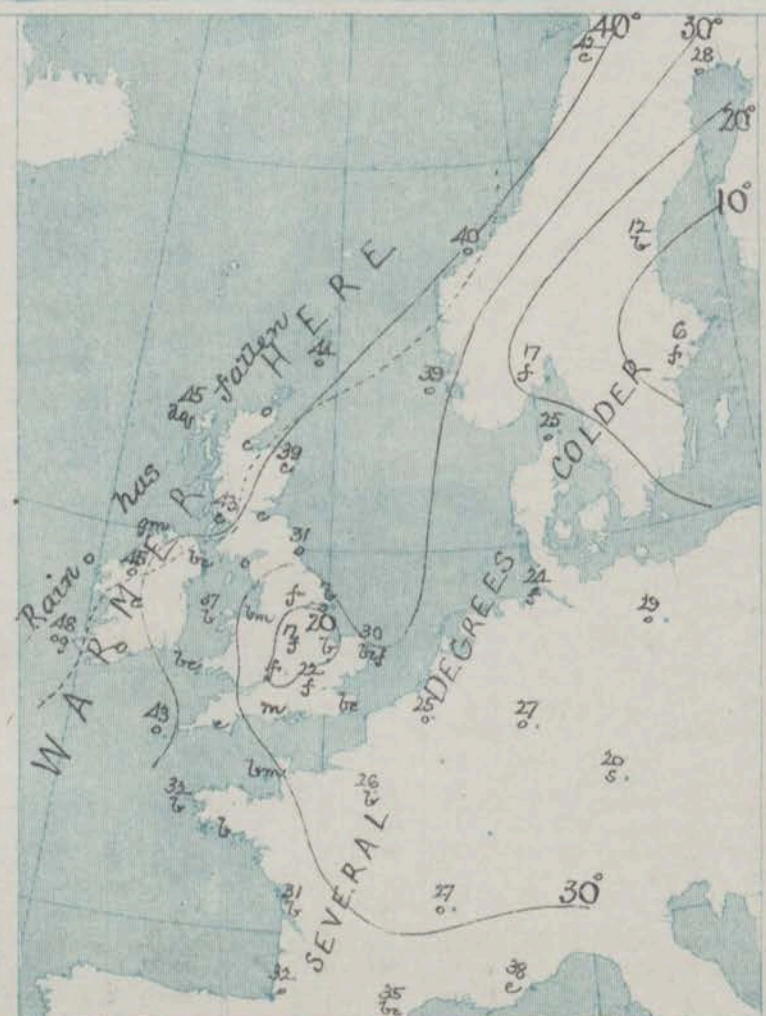
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	45.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.1	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	42.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.02
Scilly	40.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.5 ins. and upwards, over the south of Sweden. Lowest, 29.9 ins. and less over the Gulf of Genoa, but relatively low 30.0 ins. and less to the NW. of our Islands and the W. of Norway.
TEMPERATURE	Highest, 48° at Valencia, 47° at Belmullet, 46° at Rocher th and 45° at Stromway and Mullaghmore. Lowest, 6° at Stockholm, 12° at Helsingfors, 14° at Cambridge, 15° at Oxford and 20° at Munich. Hard frost prevailed last night over Central England, the lowest readings being 13° at Cambridge, 17° at Loughboro' 22° in London.
WIND	Light or moderate from NE. over Germany, France, the Netherlands and the English Channel. S th elsewhere, strong in force on the west coasts of Ireland and Scotland.
WEATHER	Dull on our western and northern coasts, with drizzling rain at Stromway. Fair in most other localities, but densely foggy over Central England and the Netherlands.
SEA	Rough at Stromway and Valencia, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed over England and the North Sea yesterday appears to be still moving Eastwards, and the barometer is falling generally.

The depressions which are travelling along our western coasts appear likely to advance closer to our shores and a further increase of wind is probable over Ireland and Scotland.

No important change is likely at present over England beyond a gradual rise of temperature.

FORECASTS

For the 24 hours ending at NOON on 2nd JAN^y 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 SCOTLAND NORTH	S th and SW th winds, increasing in force; cloudy, some rain.	* 6 SCOTLAND WEST	SE th and S th winds, freshening; cloudy, some rain.
* 1 SCOTLAND EAST	D th D th D th	7 ENGLAND N. W.	D th D th D th
2 ENGLAND N. E.	S th winds, moderate; fair generally.	8 ENGLAND S. W.	D th D th D th
3 ENGLAND EAST	Same as N° 5.	* 9 IRELAND NORTH	S th winds, strong, perhaps a gale, cloudy, some rain.
4 MIDLAND COUNTIES	Same as N° 5.	* 10 IRELAND SOUTH	D th D th D th
5 ENGLAND SOUTH	E th and SE th winds, light; foggy to fair.	WARNINGS	The south cone was hoisted, last evening in districts 0. 6. 9. 10 and part of 1. An asterisk is inserted against those districts in which signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.50	38	37	SSE 6	ns	3	Holyhead ...	30.50	40	39	S 2	b	2
Sumburgh Head ...	30.21	42	40	S 2	0	2	Valencia ...	30.40	47	46	SE 6	nm	6
Stornoway ...	30.19	44	44	S 6	o g/p	6	Scilly ...	30.48	48	43	S 2	bc	4
Aberdeen ...	30.34	37	35	SSW 6	e	2	Dungeness ...	?	39	36	? 5	bc	3
Shields ...	30.49	37	34	SW 3	m	2	London ...	30.56	37	34	NE 1	bef	*
Ardrossan ...	30.42	42	42	SSE 4	0	3	Yarmouth ...	30.55	38	36	ESE 3	by	4
Malin Head ...	30.28	41	40	NW 4	0	3	Jersey ...	30.49	41	37	ESE 3	bc	3
Mullaghmore ...	30.34	45	44	S 5	o/p	3	Rochefort ...	30.43	39	37	NNE 7	b	2
Belmullet ...	30.31	46	46	SSW 3	0	*							

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

The reports for yesterday showed that a large anticyclonic system had spread over the whole of northern and northwestern Europe, its centre being over the eastern part of the British Isles and the North Sea, where the barometer at 8 am stood at a little above 30.5 ins. In the west and northwest of our Islands, however, the mercury had begun to fall steadily, while to the south-eastward of the high pressure area readings decreased to 29.5 ins. over the Adriatic. Thus, while SW winds had set in over Ireland and Scotland, calms and variable airs were felt over England and the North Sea, and NE to N winds over the south of France and N Italy. The weather in the NW. and N. was dry, cold, and very foggy, while at the more southern stations it was somewhat cloudy, with showers locally. Temperature was below the freezing point at all but the most western and southern stations; over the western and southern parts of the Mediterranean it was still above 50°. The highest individual readings were 53° at Algiers, 52° at Malta, 51° at Brindisi and 50° at Constantinople; the lowest 5° F at Helsingfors, Stockholm, and St Petersburg, 9° at Archangel, 14° at Helsingfors, 20° at Loughborough, 23° at Oxford, 26° at Glasgow, 27° at Lemburg.

During the day the SW winds in the west and northwest continued to blow steadily, but did not spread much over England, where dense fog prevailed locally, and the night became very cold.

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 2nd January 1887.

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+ 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.		Sea (0 to 9.)	Weather.	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	30.19	28	S	4	b	30.10	-16	28	27	0	S	4	0	*	28	5	—														
Hernösand	30.36	18	Z	0	b	30.23	-23	12	13	-24	Z	0	b	*	23	?	—														
Stockholm	30.42	3	Z	0	c	30.25	-25	16	16	+10	NW	2	0	*	?	1	—														
Wisby	30.37	26	E	4	0	30.20	24	23			NNE	4	0	*	30	?	—														
Bodö	29.92	43	SSW	5	0	29.86	-09	42	40	0	SSE	4	0	2	43	37	0.16														
Christiansund	30.09	39	SE	1	c	29.96	-19	37	36	-3	SE	2	r	5	41	30	0.29														
Skudesnaes	30.30	36	SSE	8	r	30.14	-25	32	29	-7	SE	8	0	5	39	?	—														
Christiania Fjord (Færder)	30.43	19	Z	0	c	30.26	-28	22	22	+5	ENE	2	0	1	?	14	—														
Skagen (The Scaw)	30.40	25	Z	0	b	30.25	-27	23	22	-2	SE	3	0	2	27	21	—														
Fanö	30.34	23	NE	2	0	30.17	-29	24	24	0	NNE	3	0	*	25	18	—														
BRITISH ISLANDS.																															
Sumburgh Head	30.00	44	S	1	0	29.80	-29	43	43	-1	S	1	r	2	45	41	0.15														
Stornoway																															
Wick	30.02	4	W	1	0	29.73	-38	38	38	-4	W	1	0	1	42	1	0.5														
Nairn	30.02	42	Z	0	0	29.81	-31	40	39	-2	Z	0	0	0	44	38	0.21														
Aberdeen	30.10	38	SSW	3	c	29.88	-31	37	36	-2	SW	2	om	1	41	35	0.01														
Leith	30.12	41	SW	1	c	29.93	-23	42	38	+1	W	3	c	*	42	38	—														
Shields	30.23	33	SW	2	0	30.05	-33	32	31	+1	SSW	3	0	3	35	29	0.02														
Spurn Head	30.30	30	SW	2	b	30.14	-30	30	29	0	SSW	3	b	2	34	28	—														
York	30.29	32	S	1	0	30.15	-26	28	29	+5	S	1	0	*	33	22	0.04														
Loughborough	30.33	23	NW	1	f	30.17	-30	24	24	+7	SE	1	0	*	26	17	—														
Ardrossan	30.14	44	SSW	4	0	29.93	-23	44	43	+1	SSW	4	0	3	44	43	—														
Malin Head	30.34	42	S	3	0	29.84	-28	39	38	-3	SSW	3	om	3	46	39	0.07														
Mullaghmore	30.08	45	SSW	5	0	29.89	-27	42	41	-3	NW	5	r	4	46	41	0.15														
Belmullet	30.34	46	SSW	6	c	29.96	-16	40	40	-7	N	2	0	*	47	40	0.43														
Donaghadee	30.17	42	SSW	4	c	29.97	-30	40	39	+1	SSW	4	c	2	43	38	—														
GERMANY.																															
Barrow-in-Furness	30.26	33	E	3	0	30.08	-29	31	31	+1	ESE	3	c	*	33	29	—														
Liverpool (Bidston)	30.26	30	SE	3	c	30.09	-30	28	27	+3	SE	3	0	2	32	25	—														
Holyhead	30.24	38	S	3	c	30.06	-29	39	38	+2	S	3	om	2	29	37	—														
Parsonstown	30.16	39	SSE	1	b	29.98	-28	42	41	+2	S	1	ogm	*	44	38	0.03														
Valencia	30.11	47	SSE	6	0	30.00	-21	43	42	-5	N	3	rg	3	48	42	0.36														
Roche's Point	30.17	46	SSW	6	c	30.06	-25	45	44	-1	SW	5	0	4	48	43	—														
Pembroke	30.26	35	ESE	3	b	30.09	-24	42	40	+4	S	4	ap	3	43	34	—														
Scilly	30.22	43	SE	5	c	30.12	-21	41	39	-2	SSW	6	0	5	44	38	0.13														
Prawle Point	30.29	37	NNE	2	b	30.17	-24	35	33	+4	NNE	1	b	2	38	30	—														
Jersey	30.27	33	ENE	2	b	30.19	-19	31	29	-1	Z	0	om	0	34	30	—														
Hurst Castle	30.21	29	NE	3	m	30.19	-24	27	27	+2	ENE	2	m	1	34	23	—														
Dungeness	30.26	36	E	4	c	30.16	-24	32	32	-1	ESE	3	c	2	38	27	—														
London	30.32	20	SW	1	b	30.21	-24	17	15	-5	W	1	f	*	21	15	—														
Oxford	30.32	21	NE	1	0	30.20	-28	15	15	0	N	1	bf	*	21	14	—														
Cambridge	30.34	26	Z	0	b	30.19	-29	14	14	0	Z	0	m	*	29	12	—														
Yarmouth	30.31	33	NE	1	b	30.20	-24	31	30	+1	SE	2	om	3	36	28	0.06														
Cuxhaven	30.36	26	NE	1	c	30.20	-29	29	28	+5	NE	2	c	*	?	?	—														
Berlin	30.21	27	NE	2	0	30.09	-23	29	29	0	NW	2	0	*	30	27	—														
Wiesbaden	*	*	*	*	*	30.12	-22	27	26	0	NE	3	0	*	30	27	—														
Munich	30.02	17	E	2	c	29.99	-17	18	18	-2	NE	4	0	*	23	12	0.04														
FRANCE & NETHERLANDS.																															
The Helder	30.33	24	E	1	c	30.21	-25	20	19	-7	SE	1	f	1	28	19	0.04														
Brussels	*	*	*	*	*	30.20	-21	22	22	-3	NE	1	s	*	28	21	—														
Cape Gris Nez	30.28	26	ESE	3	b	30.12	-21	22	22	-3	E	3	b	2	34	21	—														
Paris	30.24	27	E	4	b	30.19	-15	23	22	-3	N	4	0	*	35	22	—														
Brest	30.21	32		0	b	30.19	-18	33	32	+1		4	b	3	41	?	—														
Lorient	30.25	34	N	4	b	30.23	-13	28	27	-1	SE	1	b	2	?	25	—														
Rocheport	30.25	31	NE	5	c	30.22	-29	25	24	-6	NE	4	b	2	36	21	—														
Belfort																															
Lyons	30.08	27	NNW	4	s	30.05	-10	24	23	-3	NNW	4	0	*	29	24	—														
Nice	29.82	38	E	1	0	29.81	-07	37	30	-1	E	1	b	3	46	32	—														
Perpignan	30.02	32	NW	7	b	30.04	+02	30	27	-5	NW	4	0	*	38	29	—														
Biarritz																															
PENINSULA.																															
Corunna	*	*	*	*	*	30.13		32	?		E	1	b	4	48	?	—														
Lisbon	30.00	45	NNE	5	b	30.13		33	30		NNE	5	b	2	46	32	—														

For Explanation of Columns, see p. 1.

WEATHER

CHARTS

for 8 a.m. on

Sunday 2nd January

1887.

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.

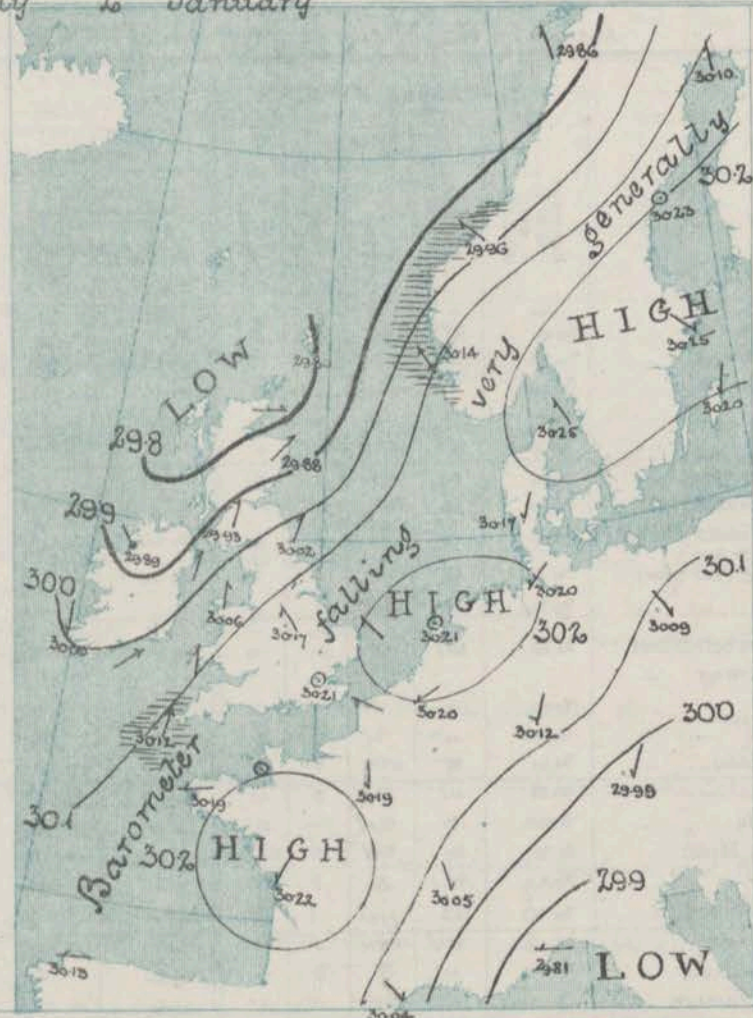
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS
	in.
Sumburgh Head	29.681
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Doungshadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

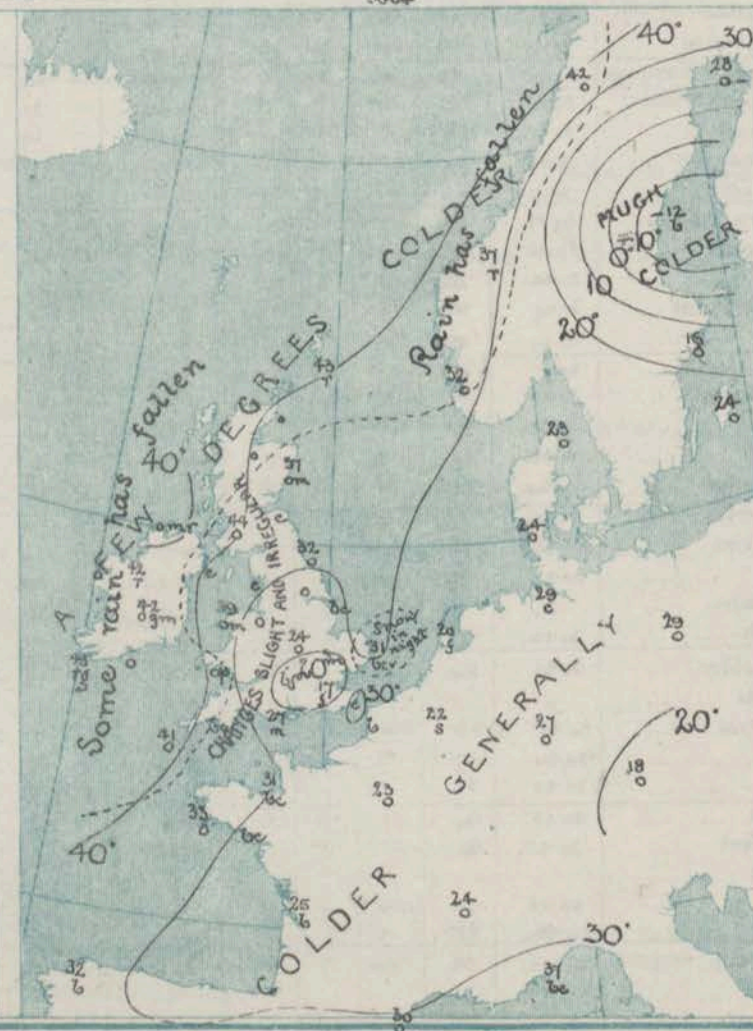
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max	Daily Min.	At 8 a.m.		
			Day.	Nat.	
Sunburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Dunaghaddee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.5	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.2	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.02
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.67
Yarmouth	42.2	34.6	37.8	37.1	2.08

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 in: and upwards in three areas lying respectively over the Netherlands, the south of Sweden, and the west of France. Lowest, 29.8 in: in depressions lying respectively over the northwest of Scotland and the Gulf of Genoa.
TEMPERATURE	Highest 45° at Rocher Pt, 44° at Androsow, and 43° at Lumburgh Head and Valencia. Lowest -12° at Haparand, +14° at Cambridge, 15° at Oxford, 16° at Stockholm and 17° in London. During last night the sheltered thermometer fell to 12° at Cambridge, 14° at Oxford, 15° in London and 17° at Loughborough.
WIND	Moderate from NE. or N. over Germany and France, light and variable in the south-east of England. NW in the north of Ireland, SW or S in all other parts of our W. and N. coasts. SE in the west of Norway.
WEATHER	Fine over the Channel and greater part of France. Cloudy or overcast elsewhere, with rain at some of our western and northern stations, and snow at Brussels.
SEA	Rather rough at Lally, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours the barometer has fallen generally, and the anticyclone recently noticed has partially broken up.

A shallow depression is now lying over the north and north-west of Scotland, while some shallow subsidiary disturbances have advanced eastwards over our western coasts.

The SW winds are inclined to extend over the greater part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 3rd January 1887.

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 is still flying in districts 0, 6, 8, 10 and part of 1. An asterisk is inserted against those districts in which the signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...							Holyhead ...	30.29	38	36	S 3	o	2
Sumburgh Head ...	30.05	44	44	S 1	r	2	Valencia ...	30.14	48	46	S 6	cm	6
Stornoway ...	29.99	45	44	SSW 6	o	6	Scilly ...	30.26	44	41	ESE 14	o	4
Aberdeen ...	30.14	39	38	SSW 3	op	1	Dungeness ...	30.30	37	34	E 4	bc	4
Shields ...	30.25	35	34	SW 1	o	2	London ...	30.36	25	25	Z 0	of	*
Ardrossan ...	30.19	44	44	SSW 4	o	3	Yarmouth ...	30.36	26	34	E 1	ew	3
Malin Head ...	30.08	43	41	S 3	o	3	Jersey ...	30.20	33	31	ENE 2	b	2
Mullaghmore ...	30.11	46	42	S 5	o	4	Rochefort ...	30.25	35	32	NE 6	bc	2
Belmullet ...	30.07	47	44	S 4	o	*							

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

The Continental Reports for yesterday 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 Monday 3rd January 1887.

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.)	SURFACE 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.		
		Ina.	"				Ina.	Ina.	"	"	"	Z.	0	0	*	30	"	Ina.	
Haparanda ...		29.93	18	S	6	S	29.87	- .25	11	11	- 14	Z	0	0	*	30	"	0.08	
Hernösand ...		30.04	1	Z	0	0	29.95	- .28	- 3	- 3	+ 9	Z	0	0	*	3	-13	-	
Stockholm ...		30.06	19	NW	2	0	29.99	- .26	17	16	+ 1	NW	2	0	*	19	3	-	
Visby ...		30.03	26	NW	4	0	29.95	- .25	28	26	+ 4	ESE	4	0	*	30	23	0.08	
Bodö ...		29.70	39	SSW	2	0	29.60	- .26	35	33	- 7	E	2	6	1	23	24	-	
Christiansund...		29.77	36	SE	1	6c	29.87	- .39	34	30	- 3	ESE	1	6c	4	?	30	0.04	
Skudesnaes ...		29.91	32	SE	8	0	29.68	- .46	34	32	+ 2	SE	8	5	6	?	32	-	
Christiania Fjord (Fjord)		30.04	26	ESE	4	0	29.91	- .35	28	26	+ 6	SSE	4	5	1	?	?	-	
Skagen (The Scaw)		30.01	25	NE	1	0	29.93	- .32	24	23	+ 1	W	1	0	1	25	23	-	
Faßö ...		30.06	23	SSE	3	0	29.92	- .25	30	28	+ 6	S	4	0	*	30	23	-	
Sumburgh Head		29.60	39	Z	0	N	29.28	- .52	40	37	- 3	S	3	0	3	44	34	0.37	
Stornoway ...		29.63	35	SW	3	6	29.02	- .42	42	42	-	S	7	14	6	42	32	0.27	
Wick ...		29.58	36	W	1	6	29.30	- .40	41	39	+ 3	S	3	0	2	41	32	0.12	
Nairn ...		29.65	36	SW	2	C	29.24	- .57	38	36	- 2	SSW	2	0	2	41	31	0.08	
Aberdeen...		29.69	34	SSW	3	odp	29.40	- .48	38	36	+ 1	SSW	4	0	2	41	31	0.02	
Leith ...		29.72	40	SW	4	0	29.42	- .51	41	38	- 1	SSW	3	6	*	42	35	-	
Shields ...		29.86	33	SSW	3	0	29.60	- .42	34	33	+ 2	S	1	0	2	35	30	0.01	
Spurn Head ...		29.97	31	S	4	0	29.72	- .42	34	34	+ 4	SSW	4	0	3	34	29	0.08	
York ...		30.01	31	S	1	S	29.69	- .46	29	29	+ 1	SSE	1	0	*	34	27	0.05	
Loughborough		30.00	32	SSE	1	S	29.75	- .42	33	33	+ 9	SE	1	0	*	36	24	0.11	
Ardrossan ...		29.77	40	NW	3	C	29.36	- .57	43	43	- 1	S	6	0	5	44	38	0.20	
Malin Head ...		29.77	37	SW	2	6	29.98	- .46	39	38	0	S	7	0	5	42	35	0.10	
Mullaghmore ...		29.84	37	SW	4	C	29.14	- .75	41	40	- 1	SSW	8	0	6	43	34	0.14	
Belmullet ...		29.84	43	W	6	0	29.07	- .89	43	42	+ 3	W	9	0	*	45	38	0.46	
Donaghadee ...		29.84	36	SW	3	C	29.40	- .57	40	39	0	SSW	7	6	5	41	33	0.10	
Barrow-in-Furness		29.84	35	S	5	N	29.56	- .52	37	36	+ 6	S	6	0	*	40	30	0.22	
Liverpool (Bidston)		29.90	34	SE	2	0	29.63	- .46	33	32	+ 5	S	1	0	3	37	28	0.08	
Holyhead ...		29.89	42	SW	4	N	29.57	- .49	44	41	+ 5	SSW	5	0	4	44	39	0.23	
Parsonstown ...		29.94	35	Z	0	6	29.32	- .66	42	41	0	S	4	0	*	42	38	0.12	
Valencia ...		30.00	41	NW	3	6c	29.86	- .64	46	43	+ 3	SSW	8	0	7	46	38	0.42	
Roche's Point...		29.98	42	NW	3	6	29.48	- .58	45	44	0	SW	8	0	5	46	38	0.25	
Pembroke ...		29.92	43	SW	4	N	29.65	- .44	44	42	+ 2	SSW	4	0	4	45	40	0.26	
Scilly ...		30.03	44	SSW	5	0	29.74	- .38	45	43	+ 4	SW	5	0	5	45	39	0.32	
Prawle Point ...		30.06	41	WSW	3	0	29.79	- .38	41	40	+ 6	WSW	3	0	4	45	33	0.42	
Jersey ...		30.18	37	WSW	3	0	29.91	- .28	37	36	+ 6	SSW	6	0	5	39	31	0.02	
Hurst Castle ...		30.07	40	W	5	6c	29.80	- .39	42	42	+ 15	SW	7	0	3	44	24	0.09	
Dungeness ...		30.10	32	SSW	2	6	29.95	- .21	41	39	+ 9	WSW	4	0	3	42	31	0.20	
London ...		30.08	31	S	1	C	29.81	- .40	38	37	+ 21	S	2	0	*	38	17	0.06	
Oxford ...		30.03	31	ESE	2	0	29.79	- .41	35	34	+ 20	SE	1	0	*	35	15	0.06	
Cambridge ...		30.07	27	S	1	0	29.79	- .40	35	35	+ 21	S	1	0	*	35	13	0.06	
Yarmouth ...		30.09	30	S	2	6	29.83	- .27	36	35	+ 5	SSW	4	0	6	36	28	0.03	
Cuxhaven ...		30.10	28	Z	0	C	30.04	- .16	28	28	- 1	S	2	0	*	?	27	-	
Berlin ...		30.08	30	NW	1	0	30.13	+ .04	25	25	- 4	SW	1	0	*	34	25	-	
Wiesbaden ...		*	*	*	*	*	30.14	+ .02	24	?	- 3	NE	2	0	*	34	25	-	
Munich ...		30.04	19	NE	1	S	30.11	+ .12	20	18	+ 2	NW	3	0	*	25	18	0.04	
The Helder ...		30.12	16	SSE	1	6	29.95	- .26	24	24	+ 4	S	3	0	2	27	16	-	
Brussels ...		*	*	*	*	*	30.13	- .07	25	25	+ 3	SSW	3	0	*	26	22	-	
Cape Gris Nez...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Paris ...		30.18	22	NE	3	0	30.13	- .06	23	22	0	SW	4	0	*	24	22	-	
Brest ...		30.13	40	S	4	0	29.90	- .29	46	43	+ 13	SW	7	0	5	48	30	0.08	
Lorient ...		30.15	37	Z	0	6	29.99	- .24	43	39	+ 15	SW	7	0	4	?	?	-	
Rochefort ...		30.23	29	NE	1	6	30.21	- .01	29	28	+ 4	S	4	0	2	34	23	-	
Belfort ...		30.11	26	SW	1	0	30.91	-	23	23	-	SW	1	0	*	?	21	-	
Lyons ...		30.07	27	N	3	0	30.19	+ .14	25	23	+ 1	N	1	0	*	28	24	-	
Nice ...		30.04	38	Z	0	0	30.01	+ .20	35	32	- 2	E	3	6c	2	45	30	-	
Perpignan ...		30.11	28	NW	4	6	30.15	+ .11	26	23	- 4	NW	3	6	*	33	25	-	
Biarritz ...		30.17	33	NW	3	0	30.20	-	24	22	-	ESE	4	0	1	36	23	-	
Corunna ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

SCANDINAVIA.

BRITISH ISLANDS.

GERMANY.

FRANCE & NETHERLANDS.

PENIN-
SULA.

† Received too late for insertion in charts.

† Received too late for insertion in charts.

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 3rd January, 1887.

BAROMETER, WIND & SEA.

(Explanation of Map.)

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

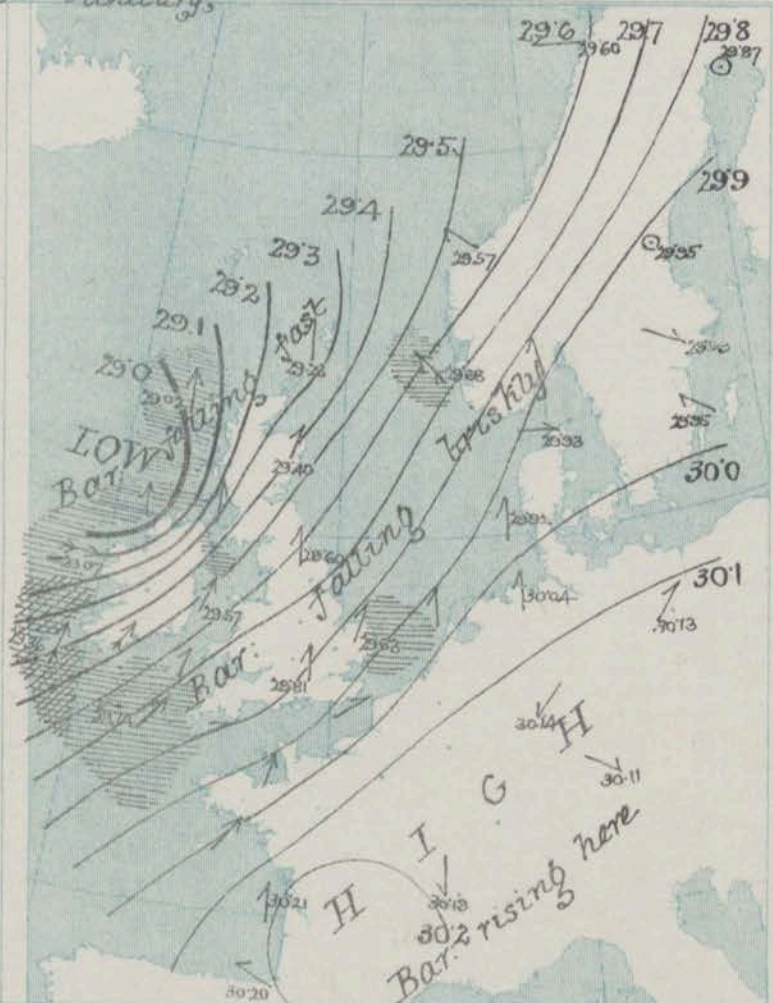
Sea Disturbance — where considerable is shown thus

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.681
Stornoway	29.657
Wick	29.637
Nairn	29.729
Aberdeen	29.783
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York	29.916
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Doughadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
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Hurst Castle	29.975
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LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

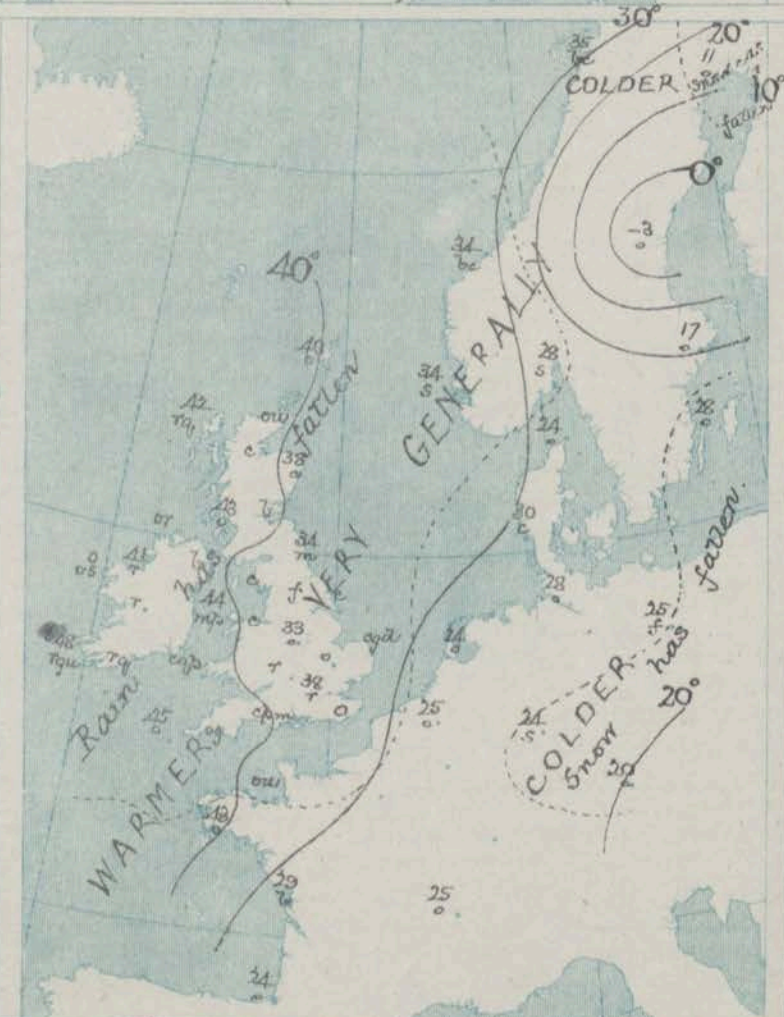
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	48.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.8	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.8	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Doughadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	36.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	6.03
Pembroke	40.1	40.8	42.8	41.3	3.92
Scilly	49.3	43.6	48.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.8	36.6	2.33
Cambridge	44.8	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1865—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 m. and upwards in the southwest of France
lowest, 20.0 m. and less in a depression lying off the west of Scotland.

TEMPERATURE

Highest, 48° at Valencia and 45° at Rochest^r and Sully.
Lowest, -3° at Hennepins, 11° at Haparanda, 20° at Munich, 24° at Wiesbaden ^{Germany}, and 29° at York.
The reading in London is 21° higher than it was yesterday morning.

WIND

{ Calm in the north of Sweden and variable in Germany.
S or SW elsewhere, strong to a gale in the west and south of Ireland.

WEATHER

Cloudy or overcast generally, with rain in many parts of Ireland and England
Snow falling in the south of Norway and also at Wiesbaden.
In the course of the past 24 hours rain or snow has fallen in all parts of the United Kingdom

SEA

though at Valencia, and rather as on all our western and northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general fall of the barometer which was in progress yesterday has become rapid in the east and north of our Islands, and the center of a deep depression in which the barometer is below 29.5 in., has appeared off the west of Scotland.

The depression will probably move in a northerly or northeasterly direction, and a considerable increase of wind is likely on our western and northern coasts generally - with rain over the greater part of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 4th JAN.

1887.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
* 0	SCOTLAND NORTH	$S^{\frac{1}{2}}$ winds, increasing to a gale; dull, some rain.	* 6	SCOTLAND WEST	$S^{\frac{1}{2}}$ and $SW^{\frac{1}{2}}$ winds, increasing to a gale; cloudy, some rain.
* 1	SCOTLAND EAST	----- D° ----- D° ----- D° -----	* 7	ENGLAND N. W.	----- D° ----- D° ----- D° -----
2	ENGLAND N. E.	Same as No 5.	* 8	ENGLAND S. W.	----- D° ----- D° ----- D° -----
3	ENGLAND EAST	Same as No 5.	* 9	IRELAND NORTH	$SW^{\frac{1}{2}}$ strong winds and gales, squally, showery.
4	MIDLAND COUNTIES	Same as No 5.	* 10	IRELAND SOUTH	----- D° ----- D° ----- D° -----
5	ENGLAND SOUTH	$S^{\frac{1}{2}}$ and $SW^{\frac{1}{2}}$ winds, increasing in force; cloudy, some rain.	WARNINGS		The south cone has been hoisted this morning in districts 0 1 and 6 to 9. An asterisk is inserted against those districts in which the signal is an flying

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenaes ...	30.06	33	30	SSE 3	0	5	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	30.24	32	32	NE 4	6	2
Belmullet ...													

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

The reports from the Continent have not been received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 26th DECEMBER 1886 TO THE 1st JANUARY 1887.

During the past week the weather over our islands has been exceedingly cold and inclement, especially at English stations.

Two depressions have been observed in the neighbourhood of the United Kingdom.

The first, a deep, though not very large, disturbance, advanced eastwards along the English Channel on 26th December, and subsequently passed away over the Netherlands and Germany to the Baltic, where it seems to have dispersed. As the system advanced strong winds or gales from SE or S and rain were experienced over the south of France and north of France, while in the immediate neighbourhood and in the rear of the depression strong NE or N gales and heavy snow were experienced over all our southern counties.

The second, a larger but shallower system, advanced to our extreme northern coasts on the evening of the 27th and subsequently moved south-eastwards to the North Sea and Germany. In its rear fresh to strong NW gales were experienced in west of our islands.

As the disturbance filled up a steady rise of the barometer took place and an anticyclone gradually advanced over us from westward, its central area being immediately over our islands on the evening of the 30th. Light winds and fair frosty weather now became general, but with thick fogs in many places.

At the close of the week the system was passing eastwards, and was at the same time inclined to disperse. S for SW winds milder weather, therefore, set in on our western and northern coasts; but over England, where the influence of the anticyclone was maintained, the end of the period, the cold intensified, and on the night of the 1st January the sheltered thermometer fell to 17° at Doughtyborough, 15° in London, 14° at Oxford and 12° at Cambridge. In London the thermometer on the grass was as low as 10°.

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 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 ...	29.72	25	Z	0	S	29.93	+06	11	11	0	SE	2	0	*	27	9	In.	
	Hernösand ...	29.93	-7	Z	0	6	29.95	+00	-8	-8	-5	Z	9	6	*	5	-8		
	Stockholm ...	30.02	20	Z	0	0	30.00	+01	20	19	+3	SSW	2	0	*	23	6		
	Wishby ...	30.01	29	NW	4	6c	30.03	+08	26	26	-2	ESE	2	0	*	32	25		
	Bodö ...	29.64	27	ESE	4	6	29.69	+09	22	19	-13	E	5	0	3	?	?		
	Christiansund...	29.56	37	ESE	3	6c	29.56	-01	34	28	0	ESE	2	6	3	37	30		
	Skudesnaes ...	29.55	36	SE	8	0	29.56	-12	36	33	+2	SE	8	0	7	36	34		
	Christiania Fjord (Færdor)	29.85	32	S	6	0	29.87	-07	31	30	+3	ESE	6	0	3	?	27		
	Skagen (The Scaw)	29.88	28	NW	4	0	29.82	-11	31	30	+7	SSW	5	0	2	?	?		
	Fanö ...	29.78	26	SE	6	0	29.73	-19	21	20	-9	SE	6	6	*	30	21		
BRITISH ISLANDS.	Sumburgh Head	29.08	42	SE	7	0	29.14	-14	37	37	-3	Z	0	0	4	44	36	0.08	
	Stornoway ...	29.94	32	NW	6	S	29.19	+17	34	34	-8	SW	3	asp	2	42	29	1.60	
	Wick ...	29.89	41	S	9	0	29.22	-08	33	31	-8	W	3	C	1	42	31		
	Nairn ...	29.86	38	S	5	0	29.25	+01	32	31	-6	WSW	1	bes	1	45	29	0.01	
	Aberdeen...	29.07	39	S	8	NW	29.25	-15	34	33	-4	W	1	omv	3	41	33	0.27	
	Leith ...	29.08	40	SW	2	N	29.30	-12	32	30	-9	W	1	bm	*	42	30	0.05	
	Shields ...	29.07	36	S	6	0	29.34	-26	33	32	-1	W	1	S	2	39	32	0.09	
	Spurn Head ...	29.35	36	S	6	0	29.34	-88	32	32	-2	S	5	agms	4	36	30	0.09	
	York ...	29.35	35	SE	3	0	29.35	-34	32	32	+3	W	1	0	*	37	28	0.21	
	Loughborough	29.32	38	SSW	5	N	29.33	-42	34	33	+1	NW	2	og	*	38	32	0.44	
GERMANY.	Ardrossan ...	29.08	38	NW	3	opsh	29.33	-03	32	32	-11	NW	1	6	0	44	32	0.31	
	Malin Head ...	29.09	38	NW	4	cap	29.37	+39	36	36	-3	WSW	2	em	2	42	34	0.05	
	Mullaghmore ...	29.19	38	NW	7	chmp	29.41	+27	33	32	-8	NW	1	6	3	42	29	0.37	
	Belmullet ...	29.29	32	NW	5	6	29.47	+40	37	35	-6	NW	2	6c	*	43	32	0.23	
	Donaghadee ...	29.13	37	NW	3	C	29.36	-04	30	30	-10	W	3	6	1	42	28	0.31	
	Barrow-in-Furness	29.10	38	SE	7	N	29.36	-20	33	33	-4	NW	2	6c	*	38	33	0.26	
	Liverpool (Bidston)	29.12	38	SE	5	0	29.37	-26	33	32	0	NW	2	6c	2	39	32	0.18	
	Holyhead ...	29.14	39	WSW	6	N	29.37	-20	37	34	-7	NW	4	6c	3	44	36	0.75	
	Parsonstown ...	29.38	34	NW	1	6	29.45	+13	33	31	-9	NW	1	6	*	42	29	0.26	
	Valencia ...	29.42	38	NW	5	6c	29.52	+18	41	40	-5	NW	4	C	4	46	36	0.60	
FRANCE & NETHERLANDS.	Roche's Point...	29.34	37	NW	4	6	29.51	+03	36	34	-9	W	4	6c	4	46	35	0.75	
	Pembroke ...	29.21	44	NW	4	N	29.40	-25	38	36	-6	NW	5	6c	5	46	36	0.41	
	Scilly ...	29.29	46	NW	6	C	29.46	-28	44	41	-1	NW	3	cap	6	46	39	0.45	
	Prawle Point ...	29.31	43	SSW	8	N	29.41	-38	33	33	-8	NW	2	S	4	46	32	0.73	
	Jersey ...	29.37	41	SW	7	0	29.35	-56	38	35	+1	NW	5	6cm	5	42	32	0.36	
	Hurst Castle ...	29.45	44	SW	9	C	29.32	-48	35	34	-7	NW	5	C	4	44	30	0.87	
	Dungeness ...	29.63	37	NW	7	N	29.33	-62	30	30	-11	S	4	0	5	42	30	0.27	
	London ...	29.50	38	SSW	5	on q	29.36	-45	31	30	-7	NE	1	S	*	39	30	0.38	
	Oxford ...	29.22	39	S	7	N	29.36	-43	32	32	-3	ESE	2	S	*	40	32	1.18	
	Cambridge ...	29.46	38	S	1	N	29.38	-41	30	29	-5	S	1	S	*	38	28	0.23	
PENIN- SULA.	Yarmouth ...	29.57	36	SSW	6	0	29.41	-42	32	30	-4	S	4	C	4	36	30	0.06	
	Cuxhaven ...	29.93	28	S	3	0	29.73	-31	24	23	-4	ESE	5	S	4	36	23		
	Berlin ...	30.07	27	SSW	1	0	29.86	-27	?	?	?	W	5	6c	*	28	25		
	Wiesbaden ...	*	*	*	*	*	29.70	-44	19	18	-5	ESE	2	0	*	39	18	0.39	
	Munich ...	29.99	19	NE	2	0	29.78	-38	10	9	-10	SE	6	0	*	25	9		
	The Helder ...	29.71	28	S	4	C	29.52	-43	25	24	+1	SSW	3	6	2	28	23		
	Brussels ...	*	*	*	*	*	29.47	-66	25	25	0	S	3	6	*	27	24		
	Cape Gris Nez...	29.62	30	SW	9	S	29.34	-23	23	23		S	5	S	?	37	23	0.39	
	Paris ...	29.89	26	SSW	3	6	29.36	-77	27	27	+4	SE	4	S	*	31	22		
	Brest ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PENIN- SULA.	Lorient ...	29.63	45	SSW	9	0	29.50	-49	41	37	-2	NW	7	6	5	45	36	0.28	
	Rochefort ...	29.95	30	S	7	0	29.52	-69	42	38	+13	NW	7	0	3	?	26	0.24	
	Belfort ...	29.97	23	SW	1	0	?	?	18	17	-5	?	3	6c	*	26	15		
	Lyons ...	30.04	23	S	1	6	29.55	-64	?	31	?	S	9	0	*	?	19		
	Nice ...	29.98	39	E	1	6	29.82	-19	33	32	-2	E	1	S	2	46	32	0.12	
	Perpignan ...	30.01	27	W	1	6	29.62	-53	27	26	+1	NW	3	C	*	40	24		
	Biarritz ...	29.89	24	E	4	C	29.61	-59	41	37	+17	SW	8	N	5	?	23		
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Tuesday, 4th January

1887.

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.

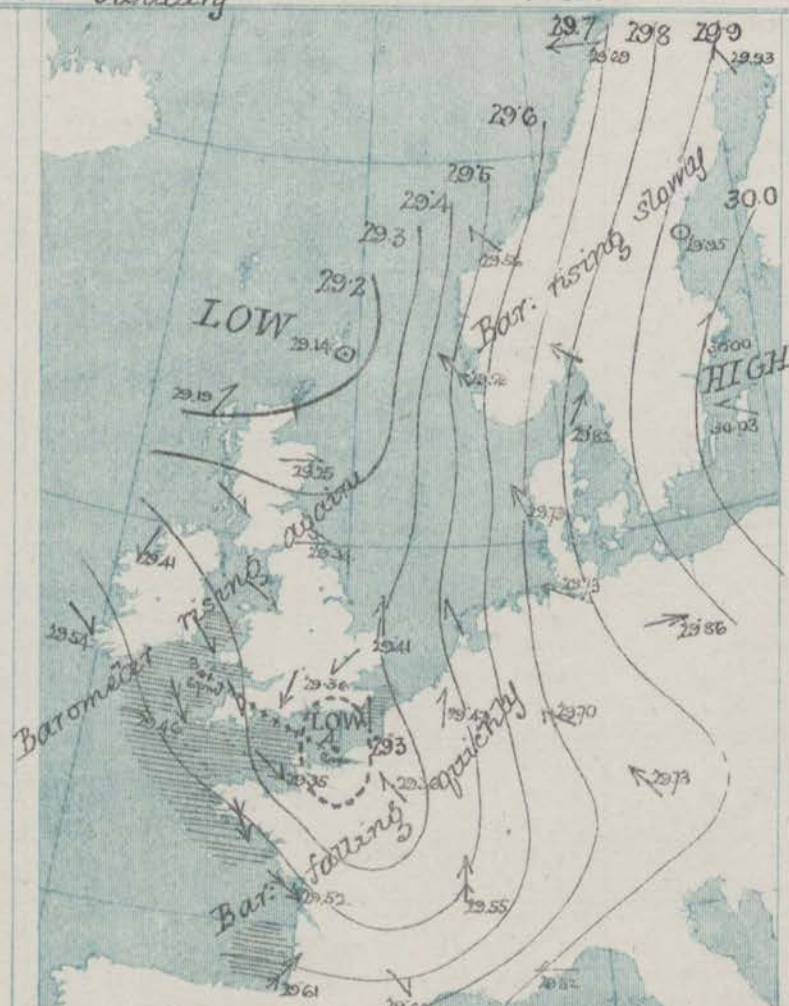
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.917
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.853
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

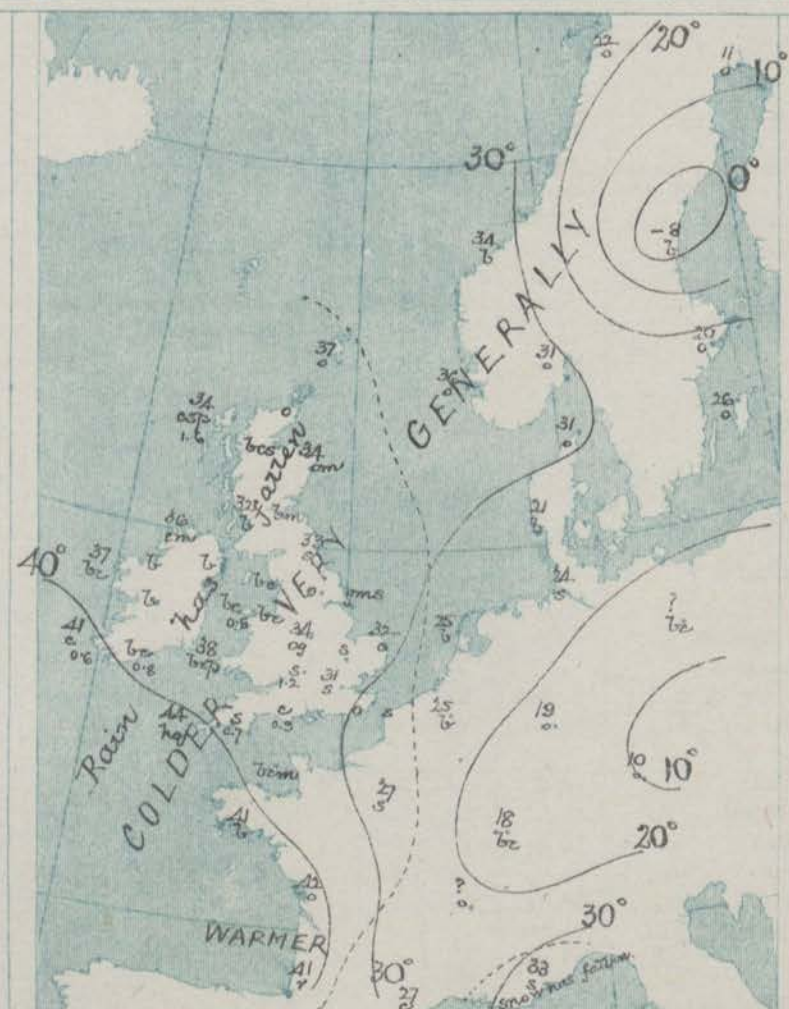
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.8	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	44.4	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	49.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 m; and upwards over the Baltic.
Lowest, 29.2 m; and lies in the extreme N. of Holland, but relatively low 29.4 m. and lies in a depression lying over the E-
part of the Channel.

TEMPERATURE

Highest, $+12^{\circ}$ at Lillo, $+2^{\circ}$ at Rochefort, and $+1^{\circ}$ at Valencia, Lorient and Biarritz.
Lowest -8° at Hemsand, $+10^{\circ}$ at Munich, 11° at Haparanda, 18° at Relfort, 19° at Wiesbaden, 30° at Donaghadee, Banbury and Remagen.

WIND

light SW or W in Scotland, moderate NW on our W coast, but strong from the same quarter over the Bay of Biscay and mouth of the Channel ^{the}
fresh S in the east of England, moderate to strong SE over Germany, and eastern shores of the North Sea.
fresh to strong S or SW gales were experienced yesterday over the greater part of the United Kingdom.

WEATHER

Line at some of our western and also at the Scandinavian stations.
Cloudy or overcast elsewhere, with snow in the N. of Scotland, and S. of England as well as at Shields and Paris.
Heavy rain-fall yesterday over the United Kingdom, the largest amount being 1.6 in. at Homeway, 1.2 in. at Oxford, 0.9 in. at Hessel Carle
0.8 in. at Roches M. and 0.7 in. at Hawke's Bay.

SEA

Rather rough on exposed part of S. and SW. coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the west of Scotland yesterday has travelled away to the northward of our Islands. During the night, however, a subsidiary disturbance which was apparently forming over our southwest coast last evening, has advanced to the eastern part of the Channel.

In the rear of these systems the barometer is now rising over the greater part of the United Kingdom, but at the Continental stations it continues to fall steadily. The depression over the Channel seems likely to move away over France, but as pressure is high in Scandinavia it is doubtful whether the NW winds in the west will extend to our East coast.

FORECASTS

for the 24 hours ending at NOON on 5TH JAN^Y 1887.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	W ^{ly} and SW ^{ly} winds, light; unsettled, some snow showers.	
1	SCOTLAND EAST	-----D°-----D°-----D°-----	
2	ENGLAND N E	-----D°-----D°-----D°-----	
3	ENGLAND EAST	SE ^{ly} and variable breezes, unsettled, some snow.	
4	MIDLAND COUNTIES	Same as N° 5	
5	ENGLAND SOUTH	Variable breezes, some snow at first then fair. Very cold at night.	

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	NW ^{ly} winds, light or moderate; fair generally, but perhaps some showers.	
7	ENGLAND N. W.	-----D°-----D°-----D°-----	
8	ENGLAND S. W.	-----D°-----D°-----D°-----	
9	IRELAND NORTH	NW ^{ly} winds, moderate; fair generally.	
10	IRELAND SOUTH	-----D°-----D°-----D°-----	
WARNINGS		The south cone has been lowered this morning in districts 0.1.3 and 5 to 9.	

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.59	35	34	SE 8	S	6	Holyhead ...	29.22	42	41	S 7	ngm	5
Sumburgh Head ...	29.13	43	40	S 4	O	4	Valencia ...	29.34	40	39	rw 6	h q	6
Stornoway ...	28.81	41	41	S 9	ng	7	Scilly ...	29.39	45	44	SW 8	h	6
Aberdeen ...	29.16	40	38	S 8	og	5	Dungeness ...	29.72	37	36	W 6	h	4
Shields ...	29.35	37	36	S 4	O	2	London ...	29.62	39	38	SEA 5	on q	*
Ardrossan ...	29.06	38	37	S 8	h	6	Yarmouth ...	29.66	36	35	SSW 5	h q	5
Malin Head ...	29.00	36	36	rw 8	O	6	Jersey ...	29.68	42	40	W 7	O	5
Mullaghmore ...	29.18	39	35	W 7	c qnh	6	Rocheport ...	30.07	34	31	S 5	h	2
Belmullet ...	29.22	36	34	rw 7	osp	*							

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

The Continental Reports for yesterday have not arrived.

Remarks for the 24 hours ended January 2nd

The reports for Jan: 1st showed that on the morning of that day a large elongated anticyclone lay over the whole of N^o and NW Europe, having maximum pressures of 30.4 in: and upwards. Over the Mediterranean, Adriatic, and the Balkan Peninsula lay a large shallow depression in which the minimum readings were about 29.8 in: Calms and cold dry NE³ winds consequently prevailed over nearly the whole of the Continent with local fogs, but in the west of the British Isles the wind was S³, and inclined to increase in force, with milder and wetter weather. Temperature was very low generally, frost being prevalent at all but the extreme W, S, and SE stations, where the reading varied from 40° to upwards of 50°. The highest individual values were 51° at Algiers and Constantinople, 50° at Malta and Brindisi and 45° at Stornoway and Mullaghmore; the lowest 6° F at Stockholm, 12° at Moscow, 13° at Archangel, 14° at Cambridge, 15° at Oxford, 17° at Loughborough and Christiania, 19° at Cracow, 24° at Paris, and 30° even at Biarritz.

During the day the anticyclone gave way steadily on its NW side, and the mild S³ winds, in Ireland spread to nearly the whole 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 Wednesday 5th 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 ..	29.87	26	Z	0	0	29.97	+ .10	18	18	+ 7	Z	0	m	*	27	10	0.04	
Hernösand ...	29.92	-6	Z	0	0	29.92	- .03	14	13	+ 22	Z	0	o	*	?	-8	-	
Stockholm ...	29.96	25	SSE	2	0	29.77	- .19	29	27	+ 9	E	2	o	*	?	19	-	
Wisby ...	29.94	30	ESE	2	0	29.68	- .26	29	29	+ 3	E	4	o	*	22	25	-	
Bodo ...	29.67	25	ENE	4	0	29.65	- .02	21	18	- 1	ENE	6	0	0	?	14	-	
Christiansund...	29.55	35	ESE	2	0	29.40	- .15	35	29	+ 1	ESE	4	0	0	36	22	-	
Skudesnaes ...	29.59	33	SE	8	0	29.29	- .30	36	34	0	SE	8	0	0	?	?	-	
Christiania Fjord (Fjorder)	29.78	32	ESE	8	0	29.60	- .18	32	31	+ 1	ESE	8	0	4	32	28	-	
Skagen (The Seaw)	29.71	32	SE	6	0	29.52	- .19	33	31	+ 2	S	5	0	0	34	30	-	
Fanö ...	29.55	34	SSE	8	0	29.20	- .35	34	34	+ 3	SE	6	0	*	27	21	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.20	40	S	2	C	28.92	- .28	38	36	+ 1	SE	6	0	6	40	36	0.08	
Stornoway ...	29.08	38	S	5	C/N	28.66	- .42	36	36	+ 2	SSW	3	C	1	39	30	0.11	
Wick ...	29.19	36	SW	3	0	28.82	- .37	36	33	+ 3	S	7	C	6	41	30	-	
Nairn ...	29.20	33	SSW	2	0	28.77	- .43	33	32	+ 1	SSW	3	0	2	37	29	-	
Aberdeen...	29.28	30	SSW	1	0	28.87	- .41	30	31	- 1	SW	1	0	1	36	28	-	
Leith ...	29.30	33	W	1	0	28.84	- .46	30	30	- 2	SE	1	0	*	38	27	0.02	
Shields ...	29.36	30	W	1	0	28.88	- .46	32	32	- 1	SSE	2	0	2	35	27	0.08	
Spurn Head ...	29.38	31	S	4	0	28.85	- .49	32	32	0	S	6	S	6	33	27	0.08	
York ...	29.38	31	NNW	1	0	28.86	- .49	30	30	- 2	SE	1	0	*	36	27	0.13	
Loughborough	29.29	30	W	1	0	28.83	- .50	31	31	- 3	ESE	1	0	*	36	27	0.35	
Ardrossan ...	29.28	39	SSE	3	0	28.79	- .49	31	31	- 1	NNE	2	0	2	39	29	0.45	
Malin Head ...	29.15	33	S	4	0	28.78	- .59	37	36	+ 1	WSW	3	0	3	38	33	0.15	
Mullaghmore ...	29.23	35	SW	5	0	28.88	- .53	39	37	+ 6	NNW	6	C	6	40	32	0.43	
Belinullet ...	29.13	36	SSW	5	0	28.92	- .53	40	38	+ 3	NN	7	C	*	46	35	0.51	
Donaghadee ...	29.32	32	W	3	0	28.84	- .52	33	32	+ 3	SSW	3	0	1	37	29	0.13	
Barrow-in-Farner	29.37	32	N	2	0	28.83	- .53	32	32	- 1	NE	3	0	*	36	29	0.03	
Liverpool (Bidston)	29.38	33	ESE	1	0	28.78	- .59	37	35	+ 4	WNW	7	0	4	39	30	0.14	
Holyhead ...	29.39	36	Z	0	0	28.87	- .50	39	38	+ 2	WNW	7	C	5	41	33	0.24	
Parsonstown ...	29.35	34	Z	0	0	29.05	- .40	32	31	- 1	Z	0	0	*	41	31	0.16	
Valencia ...	29.32	46	SSW	5	0	29.14	- .40	40	38	- 1	WNW	6	C	6	50	38	0.27	
Roche's Point...	29.41	43	WSW	2	0	29.19	- .22	36	35	0	W	4	C	4	43	35	0.20	
Pembroke ...	29.42	38	W	1	0	28.98	- .42	42	40	+ 4	WSW	6	C	6	44	36	0.20	
Scilly ...	29.50	45	WNW	5	0	29.15	- .31	42	41	- 2	WNW	8	C	7	45	37	0.31	
Prawle Point ...	29.49	35	NNW	2	0	29.03	- .28	38	36	+ 5	WNW	5	C	5	45	33	0.19	
Jersey ...	29.49	39	NNW	3	0	29.03	- .32	44	40	+ 6	WNW	5	C	5	45	37	0.20	
Hurst Castle ...	29.45	33	NNW	2	0	28.90	- .42	39	38	+ 4	WNW	6	C	4	44	30	0.59	
Dungeness ...	29.41	30	N	3	0	28.85	- .48	38	38	+ 8	SSE	6	0	5	39	27	0.23	
London ...	29.40	30	NW	1	0	28.83	- .53	35	34	+ 4	S	3	0	*	35	28	0.04	
Oxford ...	29.42	27	SSW	1	0	28.84	- .52	34	34	+ 2	W	5	0	*	35	26	0.33	
Cambridge ...	29.36	29	S	1	0	28.81	- .57	33	33	+ 3	SSE	2	0	*	34	29	0.19	
Yarmouth ...	29.42	34	SSE	3	0	28.95	- .45	34	33	+ 2	SSE	6	C	5	34	29	0.05	
Cuxhaven ...	29.63	24	ESE	4	0	29.40	- .23	21	20	- 3	SSE	3	0	*	24	19	-	
Berlin ...	29.70	21	ESE	2	0	29.52	- .18	24	24	?	SE	2	0	*	28	19	-	
Wiesbaden ...	*	*	*	*	*	29.49	- .21	19	18	0	NE	3	0	*	28	16	-	
Munich ...	29.55	8	E	4	0	29.47	- .08	5	5	- 5	SE	3	0	*	14	5	-	
FRANCE & NETHERLANDS.																		
The Helder ...	29.45	25	ESE	1	0	29.12	- .33	30	29	+ 5	SSE	3	0	2	30	23	-	
Brussels ...	*	*	*	*	*	29.14	- .33	31	30	+ 6	SE	1	0	*	35	?	-	
Cape Gris Nez...	29.37	28	NE	1	0	28.98	- .39	29	?	+ 6	S	7	0	5	?	23	-	
Brest ...	29.38	31	SW	1	0	29.19	- .17	31	30	+ 4	S	4	0	*	34	?	0.04	
Lorient ...	29.57	43	NNW	4	0	29.19	- .29	47	42	+ 3	NNW	3	0	5	52	37	0.08	
Rochefort ...	29.60	42	N	5	0	29.18	- .32	46	43	+ 5	NNW	8	C	7	46	37	0.12	
Belfort ...	29.64	41	NNW	7	0	29.28	- .24	50	50	+ 8	SW	9	0	4	?	36	0.35	
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Nice ...	29.55	39	ENE	4	0	29.51	- .04	31	29	- 2	ESE	4	0	3	36	28	0.20	
Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Biarritz ...	29.65	48	NNW	11	0	29.52	- .13	48	46	+ 7	WSW	8	0	6	52	41	0.39	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.97	53	NNW	5	0	29.94	- .03	51	50	?	SW	7	0	5	?	41	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Wednesday, 5th January.

1887.

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.

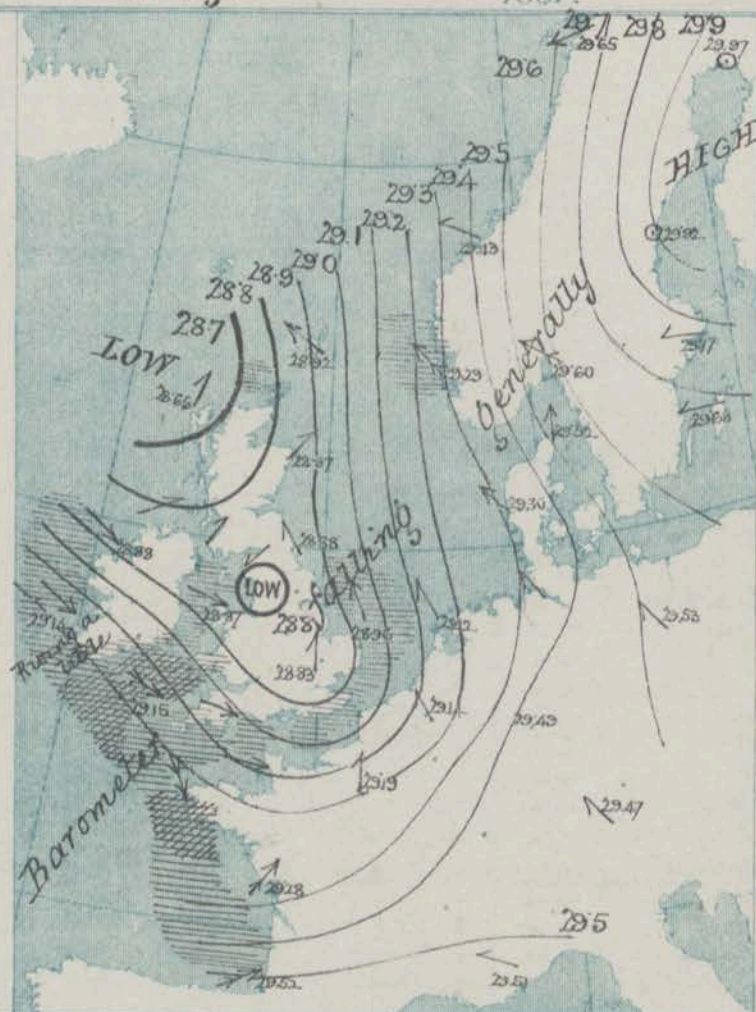
Sea Disturbance — where considerable is shown thus

— = Rough, — = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.768
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.862
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.984



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.

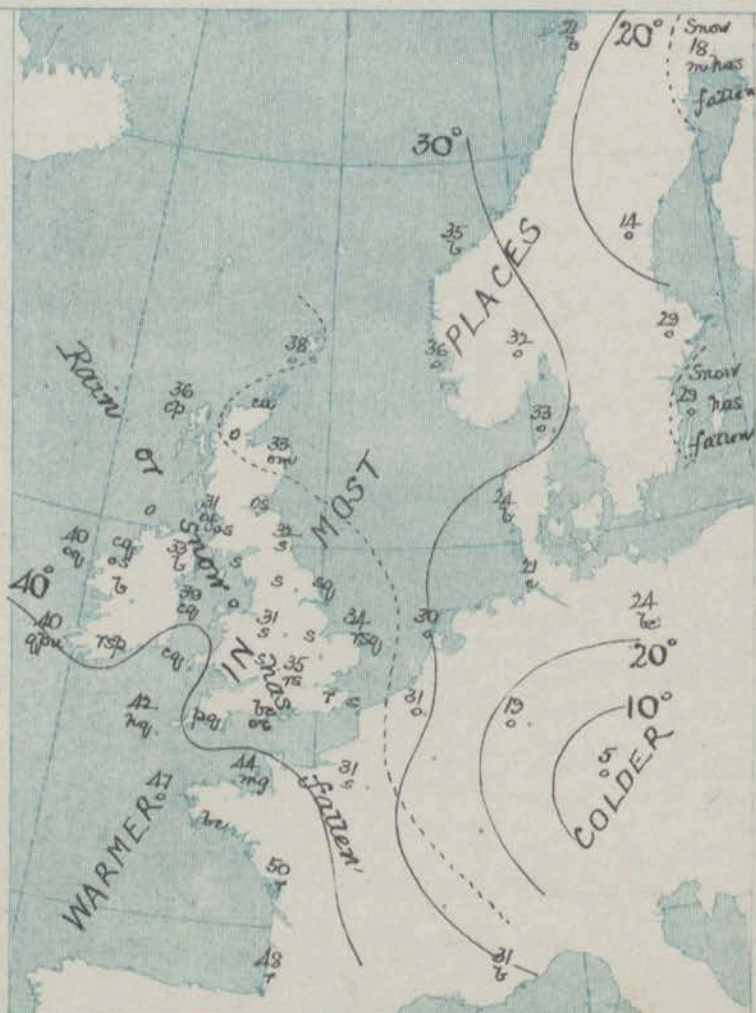
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	39.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	36.3	39.7	38.8	3.08
Holyhead	46.3	39.3	41.7	40.3	3.40
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	45.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	48.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 29.4 ms and upwards over the Gulf of Bothnia
Lowest, 28.7 ms and less in a depression lying off the north-west of Scotland, but low, 28.8 ms and less in a subsidiary disturbance lying over the north-west of England

TEMPERATURE

Highest, 51° at Lisbon, 50° at Rochefort, 48° at Biarritz and 46° at Jersey.
Lowest 5° at Munich, 14° at Bernösand, 18° at Haparanda, 19° at Wiesbaden and 30° at Seith and York.

WIND

Strong to a gale from W or NW on the western coasts of our islands, and from SW in the south-west of France.
Moderate to strong from SE and S on our eastern coasts and the eastern shores of the North Sea.
A strong gale from the Srd was experienced last night in the north of Scotland.

WEATHER

{ Fine in the west of Norway and south of France.
Cloudy elsewhere with snow over the greater part of England as well as at C. Gris Nez and Paris
In the course of yesterday rain or snow fell over the whole of the United Kingdom.

SEA

{ High at Scilly and rough or rather so on most parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a new depression has advanced in a north-easterly direction to the north of Scotland while a subsidiary disturbance has appeared over the north of England, and the barometer has therefore fallen generally.

In the west of Ireland, however, the fall has now ceased, and it is probable that the depression near the Hebrides will pass away to the north of our islands.

With relatively high-pressures both to the north-east and south-west of our islands the subsidiary disturbance over the north-west of England is likely to remain almost stationary and will in all probability disperse before long.

FORECASTS

For the 24 hours ending at NOON on 6th January 1887.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	S ^{ly} winds, moderate or fresh; cloudy, some snow showers.
2	SCOTLAND EAST	-----D°-----D°-----
3	ENGLAND N.E.	SE ^{ly} and S ^{ly} winds, strong; unsettled, some snow.
4	ENGLAND EAST	-----D°-----D°-----
5	MIDLAND COUNTIES	Same as N° 5.
6	ENGLAND SOUTH	W ^{ly} and SW ^{ly} winds, fresh; unsettled, some sleet or cold rain.

* 6	SCOTLAND WEST	Light variable breezes; dull, some snow.
* 7	ENGLAND N. W.	W ^{ly} and NW ^{ly} winds, backing later, squally, some cold showers.
* 8	ENGLAND S. W.	----- D° ----- D°
* 9	IRELAND NORTH	----- D° ----- D°
* 10	IRELAND SOUTH	----- D° ----- D°

WARNINGS

The S. cone was hoisted yesterday in districts O. 1 and 6 to 10.

The S. cone was hoisted yesterday in districts 0.1 and 6 to 10. An asterisk is inserted against those districts in which the signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.63	34	31	SE 8	0	Y	Holyhead ...	29.44	39	35	NNW 2	b esp	2
Sumburgh Head ...	29.20	39	36	S 2	0	4	Valencia ...	29.53	46	44	NNW 2	0	3
Stornoway ...	29.17	37	36	SSH 5	crap	5	Scilly ...	29.51	45	43	NNW 6	0	6
Aberdeen ...	29.34	35	32	SSH 1	0	2	Dungeness ...	29.35	31	31	E 3	0	3
Shields ...	29.37	34	33	W 1	osp	2	London ...	29.41	31	31	Z 0	0	*
Ardrossan ...	29.38	35	34	E 1	0	1	Yarmouth ...	29.40	30	32	SSE 4	cg	4
Malin Head ...	29.32	37	37	SW 3	0	3	Jersey ...	29.43	40	36	NNW 4	bc	4
Mullaghmore ...	29.40	37	35	SW 4	0	4	Rocheport ...	29.61	42	40	NW 6	r	3
Belmullet ...	29.39	40	38	SW 3	0	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental Reports for yesterday have not yet arrived.

The reports for Monday, January 3rd, showed that pressure was high (30.1 to 30.3 ins.) over the Continent generally, and low (29.0 ins. & less) to the northwestward of our islands, the gradients (for SW winds) being somewhat steep over the United Kingdom and — and especially so over the northern parts of Ireland. S.W. winds consequently prevailed over the United Kingdom and North Sea, and were strong to a gale in force on our western coasts, but moderate to light elsewhere, the weather being showery and unsettled generally. On the Continent calm and variable airs were reported, but the weather was comparatively fair though snow showers were reported in a few localities. The S.W. wind had brought milder weather to the British Isles than that which prevailed on the 2nd, but over nearly the whole of the Continent frost still prevailed. The highest temperatures reported were 50° at Brindisi and Malta, 48° at Constantinople and at Valencia, 45° at Scilly and 43° at Ardrossan; the lowest — 3° F. at Hermand, +5° at Knopio, 11° at Uleaborg and Haparanda, 21° at Neu-Fahrwasser, 24° at Riga and Lissabon and 25° at Berlin.

During the day the wind again shifted to the NWth on the western coasts of our islands, and cold weather again began to spread over the British Isles, with snow & sleet in many 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.

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for Thursday 6th JANUARY 1887.

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			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.		
Haparanda ..	30.01	16	Z	0	f	29.82	- .15	23	23	+ 5	E	4	0	*	27	12	0.12		
Hernösand ..	29.70	27	NE	1	c	29.63	- .29	26	26	+ 12	E	2	0	*	30	?	0.16		
Stockholm ..	29.55	27	W	2	0	29.58	- .19	29	28	0	ENE	2	0	*	30	25	-		
Wibsy ..	29.55	31	E	4	0	29.49	- .19	32	32	+ 5	ESE	4	0	*	34	27	-		
Bodö ..	29.80	23	ENE	7	b	29.75	+ .10	27	24	+ 6	ENE	5	0	3	?	14	-		
Christiansund...	29.41	33	ESE	4	b	29.41	- .02	30	28	- 5	ESE	3	b	2	34	27	-		
Skudesnaes ..	29.24	30	ESE	8	0	29.19	- .10	36	33	0	E	6	0	5	37	36	-		
Christiania Fjord (Færdar) ..	29.47	29	ENE	6	0	29.38	- .22	29	29	- 3	NE	8	0	2	32	28	-		
Skagen (The Scaw)	29.36	33	SE	5	0	29.35	- .27	30	32	0	SSE	6	0	2	34	32	-		
Fanö ..	29.10	28	ESE	6	0	29.05	- .25	25	25	+ 1	SE	6	0	*	28	?	-		
BRITISH ISLANDS.																			
Sumburgh Head	28.90	38	SE	6	r	29.10	+ .18	39	35	+ 1	SE	7	0	7	40	35	0.10		
Stornoway ..	28.71	38	SE	4	0	28.90	+ .24	33	33	- 3	E	3	bc	3	40	32	0.32		
Wick ..	28.82	37	S	6	0	28.99	+ .17	37	36	+ 1	SE	7	chpw	7	38	35	0.12		
Nairn ..	28.68	27	Z	0	c	28.90	+ .13	25	25	- 8	Z	0	s	1	37	24	0.01		
Aberdeen...	28.82	32	S	1	cp	28.91	+ .04	35	34	+ 2	E	4	rs	6	37	28	0.27		
Leith ..	28.82	32	SE	1	m	28.87	+ .05	31	31	+ 1	NW	1	osm	*	38	27	0.02		
Shields ..	28.82	32	NW	2	s	28.87	- .07	32	32	0	NW	1	o	2	32	28	0.21		
Spurn Head ..	28.75	34	NW	3	0	28.79	- .06	31	30	- 1	W	4	ogm	4	35	29	0.22		
York ..	28.81	31	N	1	s	28.82	- .04	28	28	- 2	N	1	s	*	33	25	0.33		
Loughborough	28.84	35	NW	3	0	28.86	+ .03	22	22	- 9	Z	0	f	*	35	22	0.06		
Ardrossan ..	28.79	31	NE	1	0	28.89	+ .10	26	26	- 5	NE	1	bcf	1	33	25	0.11		
Malin Head ..	28.73	35	S	3	b	28.86	+ .08	32	31	- 5	S	2	om	3	40	31	0.12		
Mullaghmore ..	28.77	35	SW	5	cm	28.87	- .01	38	37	- 1	WSW	2	cp	5	41	35	0.30		
Belmullet ..	28.76	38	W	5	c	28.90	- .02	40	38	0	WNW	2	bc	*	42	36	0.25		
Donaghadee ..	28.82	32	W	3	b	28.88	+ .04	28	28	- 5	WNW	2	b	0	36	25	0.09		
GERMANY.																			
Barrow-in-Farness	28.83	31	NE	2	0	28.95	+ .12	30	30	- 2	NE	1	bc	*	32	29	-		
Liverpool (Bidston)	28.84	36	WNW	3	0	28.85	+ .07	33	33	- 4	WSW	1	o	2	39	32	0.14		
Holyhead ..	28.87	39	WNW	5	cy	28.86	- .01	34	34	- 5	WNW	3	osq	2	40	38	0.50		
Parsonstown ..	28.90	35	SW	1	0	28.95	- .10	33	32	+ 1	Z	0	b	*	38	32	0.14		
Valencia ..	29.03	38	WNW	6	ohp	29.06	- .08	41	40	+ 1	WNW	6	cy	6	43	37	0.35		
Roche's Point...	28.99	38	WNW	4	bcq	28.99	- .20	36	35	0	WNW	4	bq	4	41	36	0.18		
Pembroke ..	28.94	37	NW	6	c	28.93	- .05	38	37	- 4	NW	6	c	6	42	36	0.10		
Scilly ..	29.07	43	NW	8	c	29.00	- .15	45	41	+ 3	NW	8	cy	7	45	38	0.18		
Prawle Point ..	29.03	39	WNW	5	c	28.94	- .09	38	37	0	WNW	4	cpurs	5	43	34	0.10		
Jersey ..	29.06	41	WNW	6	bc	28.96	- .07	43	40	- 1	W	6	cypr	5	45	38	0.17		
FRANCE & NETHERLANDS.																			
Hurst Castle ..	28.96	39	WNW	5	bc	28.88	- .02	39	38	0	W	5	c	3	42	35	-		
Dungeness ..	28.84	37	WNW	5	bc	28.83	- .02	39	38	+ 1	SW	4	o	3	42	32	-		
London ..	28.87	35	NW	4	b	28.87	+ .04	32	31	- 3	WNW	1	ogm	*	40	37	0.14		
Oxford ..	28.90	33	WNW	4	b	28.86	+ .02	33	32	- 1	SW	1	sq	*	39	28	0.04		
Cambridge ..	28.84	35	SSW	1	0	28.88	+ .07	30	30	- 3	Z	0	o	*	35	27	0.13		
Yarmouth ..	28.71	32	NW	4	os	28.86	- .10	28	27	- 6	WSW	3	b	3	35	26	0.35		
Cuxhaven ..	29.18	23	SSE	3	s	29.06	- .34	29	28	+ 8	S	3	c	*	?	?	-		
Berlin ..	29.24	22	ESE	1	bc	29.27	- .26	28	27	+ 4	SSE	1	o	*	28	21	*		
Wiesbaden ..	*	*	*	*	*	29.18	- .31	32	31	+ 13	NE	2	o	*	36	18	0.12		
Munich ..	29.20	16	W	2	f	29.24	- .23	26	25	+ 21	SE	4	o	*	27	5	0.04		
NETHERLANDS.																			
The Helder ..	29.87	31	SE	5	o	28.88	- .24	35	34	+ 5	SSW	3	r	3	36	?	0.12		
Brussels ..	*	*	*	*	*	29.01	- .13	35	33	+ 4	SW	4	o	*	35	?	0.08		
Cape Gris Nez...	29.90	36	W	8	bc	28.98	- .08	37	37	+ 8	SSW	5	r	4	41	?	0.28		
Paris ..																			
Brest ..																			
Lorient ..	29.24	43	NW	4	bc	29.13	- .05	43	39	- 3	NW	7	c	6	46	37	0.12		
Rochefort ..	29.37	46	WNW	7	r	29.28	- .00	39	37	- 11	WNW	5	r	2	?	30	0.28		
Belfort ..																			
Lyons ..	29.38	32	S	4	c	29.25	- .29	33	31	+ 5	S	3	o	*	36	28	-		
Nice ..																			
Perpignan ..																			
BIARRITZ	29.50	52	W	12	r	29.28	- .14	49	48	+ 1	W	9	o	7	53	43	0.47		
PENIN- SULA.																			
Corunna ..	*	*	*	*	*														
Lisbon ..																			

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Thursday, 6th January

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.

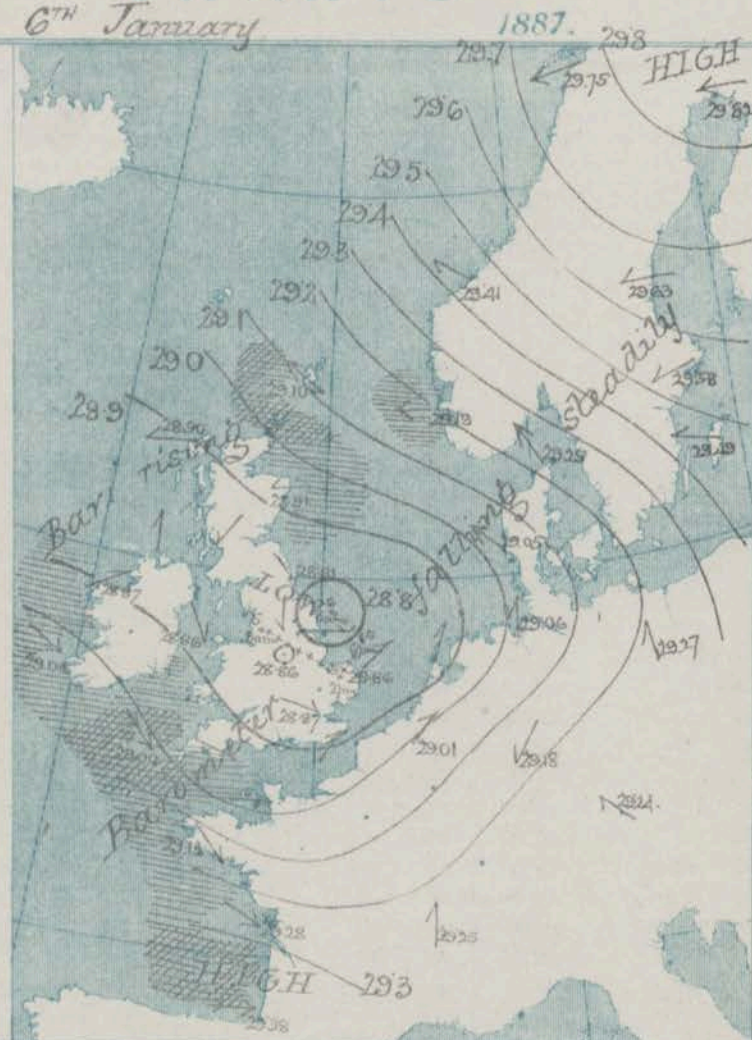
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.958
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

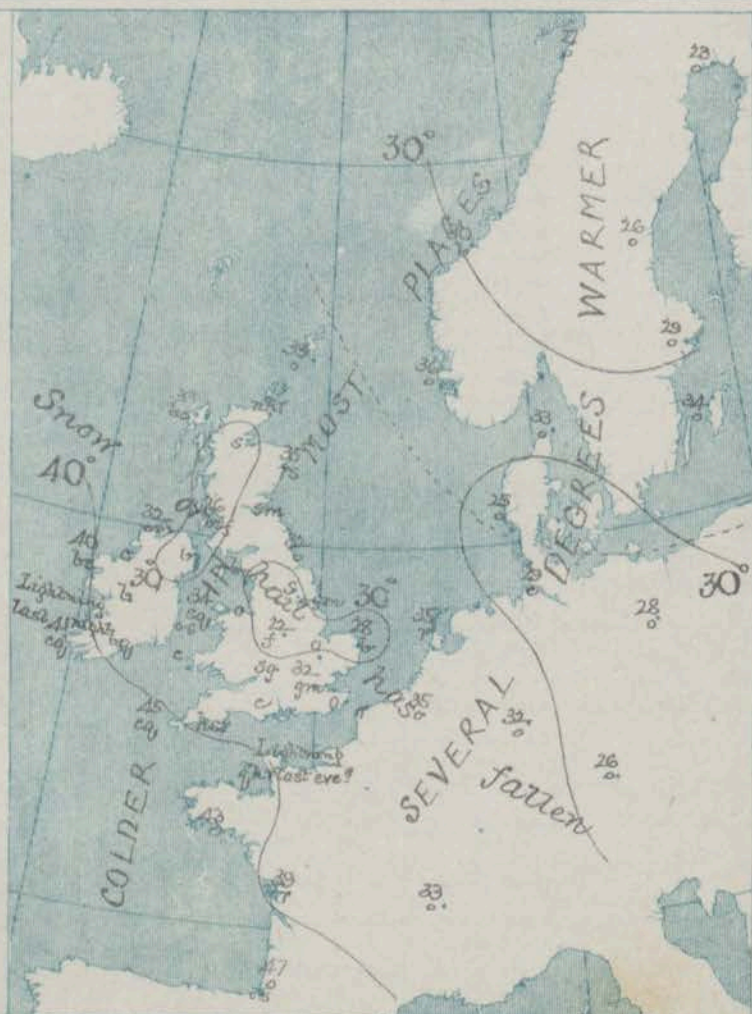
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	31.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	41.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle.	45.4	37.5	40.7	40.0	3.10
Dover	48.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.8	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 29.4 ins. and upwards over the northern parts of the Gulf of Bothnia. Lowest 28.8 ins. and less in a small depression lying off the northeast of England but relatively low 28.9 ins. and less in a trough lying over nearly the whole of our islands.
TEMPERATURE	Highest 47° at Biarritz, 45° at Scilly and 43° at Jersey and Portent. Lowest 22° at Loughborough, 23° at Haparanda, 25° at Naim and 26° at Hvosand & Hvosand. Sharp frost occurred last night in many parts of the Kingdom.
WIND	Strong N.W. in the southwest of our islands and the west of France. Moderate S.W. over the Netherlands and south of England. Strong S.E. in Denmark, the south of Norway and the north of Scotland.
WEATHER	Fair over Ireland and the west of Scotland. Cloudy elsewhere, with snow in many parts of Great Britain & rain at several ^{of the} French stations. Snow or rain fell generally yesterday and lightning was at Valencia and Jersey at night.
SEA	High off the north of Scotland and also at Scilly and rough or rather so on nearly all the more exposed parts of our own and the French coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the northwest of Scotland yesterday morning has dispersed, but a large trough of low readings still lies over the greater part of our islands, and the small subsidiary disturbance of yesterday is now found off the northeast of England.

There is at present no sign of the approach of any new depression, but conditions are not at all settled.

FORECASTS

for the 24 hours ending at NOON on 7th January 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE & E winds, strong; unsettled, some cold showers.	6 SCOTLAND WEST	NE ^{ly} winds, light; fair generally.
1 SCOTLAND EAST	E winds, light or moderate; unsettled, some snow showers.	7 ENGLAND N.W.	Same as N° 2.
2 ENGLAND N.E.	Light variable breezes; unsettled, some snow.	8 ENGLAND S.W.	NW ^{ly} to SW ^{ly} winds, fresh; fair generally, but some cold showers.
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	Variable to E ^{ly} breezes; fair generally.
4 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	Same as N° 8.
5 ENGLAND SOUTH	SW ^{ly} winds, light or moderate; fair generally, but perhaps some cold showers.	WARNINGS	The S. Cone has been lowered this morning in districts 7 & 10.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.24	37	33	ESE 8	0	6	Holyhead ...	28.88	40	38	WNW 6	aq	5
Sumburgh Head ...	28.91	38	35	SE 6	0	6	Valencia ...	29.07	40	39	WNW 6	ohrg	6
Stornoway ...	28.67	38	38	S 6	r	6	Scilly ...	29.11	41	40	NW 8	cq	7
Aberdeen ...	28.83	35	23	S 2	oshpg	1	Dungeness ...	28.82	42	29	WNW 5	c	4
Shields ...	28.82	32	32	SSW 1	5	2	London ...	28.83	40	37	W 4	bcm	*
Ardrossan ...	28.79	31	31	NE 1	0	1	Yarmouth ...	28.72	35	34	SE 6	org	5
Malin Head ...	28.75	36	35	L 0	0	3	Jersey ...	29.04	45	40	WNW 7	bc	6
Mullaghmore ...	28.83	41	37	WSW 5	bchp	5	Rocheport ...	29.28	47	44	WNW 9	r	4
Belmullet ...	28.94	40	37	NW 5	chp	*							

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

Remarks for 24 hours ended 8am January 5th

The reports for Jan. 4th showed that at 7am on that day pressure varied from 30.3 in. and upwards over Central Russia and from about 29.9 in. in the SW part of the Iberian Peninsula to about 29.1 in. in a depression lying off the extreme NW. of Scotland, and to 29.3 in. and less, in a subsidiary disturbance which was lying over the English Channel. Thus, while NW winds prevailed over nearly the whole of Western Europe, the winds over the Baltic, Germany, and Central Europe came light from the SE^{wd}, the weather being changeable generally, with snow at times. Temperature was still low in most places, but had risen very considerably over Portugal; frost prevailed over the whole of the Central, eastern, and northern parts of the Continent and also over Algeria. The highest individual readings were 53° at Palma, 51° at Lisbon, 50° at Malaga and Brindisi and 44° at Scilly; the lowest -8° at Helsingfors, +10° at Munich, 11° at Haparanda, 12° at Carlsruhe, 15° at Cassel and Alsborg, 17° at Berne, 18° at Belfast, 19° at Wiesbaden, 23° at Laghouat (Algeria), 30° at Cambridge and 31° at Madrid.

During the day the depression over the British Isles moved NErd, but others advanced from the Atlantic, temperatures changed considerably and frequently, frost and thaw alternating, and showers of sleet and snow again fell in many places, and fog occurred locally.

The Continental Reports for yesterday 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 Friday 7th JANUARY.

1887.

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

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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.88	31	Z	0	0	29.98	+ .16	28	28	+ 5	Z	0	0	*	32	12	0.08
	Hernösand ...	29.79	26	Z	0	s	29.81	+ .18	28	28	+ 7	SE	2	r	*	?	21	0.04
	Stockholm ...	29.80	36	SE	4	0	29.87	— .01	35	35	+ 6	E	4	r	*	36	27	0.04
	Wisby ...	29.82	37	SSE	4	r	29.88	— .01	37	36	+ 3	ESE	4	r	*	37	28	0.12
	Bodö ...	29.70	27	SSW	5	b	29.75	— .00	30	37	+ 3	ENE	4	b	2	31	27	—
	Christiansund...	29.40	33	ESE	3	c	29.39	— .02	37	34	+ 7	ESE	8	o	3	37	?	—
	Skudesnaes ...	29.24	38	ESE	6	c	29.22	+ .03	37	33	+ 1	NNE	2	o	4	?	?	—
	Christiania Fjord (Vardø)	29.41	34	NE	4	o	29.28	— .10	36	35	+ 7	ENE	6	r	2	?	?	—
	Skagen (The Scaw)	29.33	35	SE	4	o	29.17	— .08	35	34	+ 2	SE	6	o	3	36	32	0.20
	Fanö ...	29.21	29	SE	4	c	29.17	+ .12	26	25	+ 1	SE	2	c	*	30	20	—
	Sumburgh Head	29.13	35	E	5	s	29.17	+ .07	37	35	— 2	SE	5	o	6	29	30	0.23
	Stornoway ...	29.02	38	E	5	cg	29.03	+ .13	39	38	+ 6	ENE	5	bcy	4	40	31	0.08
	Wick ...	29.00	37	E	9	c	29.07	+ .08	38	37	+ 1	E	9	o	8	39	35	0.23
	Nairn ...	28.95	29	Z	0	o	28.94	+ .04	35	34	+ 10	NNE	2	o	2	37	24	0.13
	Aberdeen...	28.90	34	NE	4	rsp	28.98	+ .07	38	36	+ 3	E	4	cp	6	40	33	0.41
	Leith ...	28.90	35	WNW	1	s	28.93	+ .06	32	32	+ 1	S	1	c	*	35	20	0.14
	Shields ...	28.85	35	NW	1	os	28.97	+ .16	30	30	— 2	Z	0	om	2	34	27	0.08
	Spurn Head ...	28.89	32	WSW	3	b	28.99	+ .20	29	29	— 2	SSE	3	f	4	34	25	—
	York ...	28.89	31	NWN	1	c	28.99	+ .17	24	24	— 4	Z	0	f	*	34	21	0.01
	Loughborough	28.93	20	W	1	o	28.97	+ .11	26	26	+ 4	SE	1	og	*	32	21	0.01
	Ardrossan ...	28.92	29	NE	1	bcw	28.89	— .00	35	35	+ 9	SSE	3	sf	2	35	24	0.34
	Malin Head ...	28.91	20	SEE	2	c	28.92	+ .06	40	37	+ 8	NNW	3	c	3	40	31	0.01
	Mullaghmore ...	28.91	38	WSW	1	p	28.96	+ .09	30	30	— 8	SE	1	b	3	44	30	0.26
	Belmullet ...	28.94	42	WNW	5	cp	29.01	+ .11	38	37	— 2	N	3	c	*	43	36	0.18
	Donaghadee ...	28.94	31	N	2	f	28.92	+ .04	30	30	+ 2	NW	3	b	1	34	25	0.01
	Barrow-in-Furness	28.90	20	NE	2	o	28.95	— .00	30	30	0	NE	1	sw	*	30	27	—
	Liverpool (Bidston)	28.92	34	W	1	o	28.93	+ .08	28	27	— 5	SE	2	of	3	37	27	0.13
	Holyhead ...	28.93	36	W	1	c	28.91	+ .05	35	35	+ 1	Z	0	om	0	39	34	0.32
	Parsonstown ...	28.99	37	W	1	o	28.95	— .00	35	35	+ 2	Z	0	r	*	40	31	0.06
	Valencia ...	29.13	43	NW	5	cpq	28.96	— .10	41	40	0	N	5	cpq	5	45	39	0.28
	Roche's Point...	29.06	40	WNW	5	bcp	28.86	— .13	38	37	+ 2	NNW	5	op	4	42	35	0.14
	Pembroke ...	29.03	44	NW	6	c	29.01	+ .01	45	42	0	W	7	cp	6	45	38	0.15
	Scilly ...	29.03	36	WNW	3	bc	28.99	+ .05	42	39	+ 4	W	5	cpq	5	43	34	0.06
	Prawle Point ...	29.03	41	WNW	4	c	29.08	+ .12	41	40	— 2	W	5	ohm	4	44	36	0.40
	Jersey ...	29.04	41	WNW	4	c	29.08	+ .12	41	40	— 2	W	5	ohm	4	44	36	0.40
	Hurst Castle ...	28.99	35	NNW	3	c	29.00	+ .12	38	37	— 1	W	2	c	3	41	32	0.02
	Dungeness ...	28.92	35	NNW	3	c	29.02	+ .14	29	28	— 10	NW	3	m	2	42	26	0.02
	London ...	28.99	34	NNW	2	bc	29.01	+ .14	32	31	0	SSE	2	bm	*	37	29	—
	Oxford ...	29.01	30	WNW	1	b	28.99	+ .13	32	31	— 1	SSE	1	ogu	*	34	25	0.05
	Cambridge ...	28.97	33	Z	0	o	29.01	+ .13	31	30	+ 1	Z	0	os	*	33	24	0.01
	Yarmouth ...	28.93	25	W	4	bcw	29.03	+ .17	29	28	+ 1	W	2	f	3	29	23	—
	Cuxhaven ...	29.06	32	SE	2	c	29.15	+ .09	32	31	+ 3	S	2	s	*	32	?	—
	Berlin ...	29.25	32	Z	0	s	29.35	+ .08	27	27	— 1	S	1	o	*	34	21	—
	Wiesbaden ...	*	*	*	*	*	29.26	+ .08	32	31	0	E	2	o	*	36	24	—
	Munich ...	29.25	14	W	3	f	29.33	+ .09	10	9	— 16	SSW	3	b	*	32	10	—
	The Helder ...	29.01	34	SSE	3	o	29.07	+ .19	33	33	— 2	S	1	f	2	36	?	—
	Brussels ...	*	*	*	*	*	29.14	+ .13	35	34	0	S	3	o	*	36	34	0.04
	Cape Gris Nez...	29.12	37	S	3	o	29.18	+ .08	23	22	— 1	WSW	3	o	*	36	32	—
	Brest ...	29.12	42	NNW	7	o	29.15	+ .08	43	39	+ 2	NNW	7	b	5	50	37	0.04
	Lorient ...	29.18	43	NW	8	c	29.23	+ .10	41	38	— 2	NNW	3	o	5	46	37	0.16
	Rockefort ...	29.34	43	WNW	7	r	29.33	+ .05	41	40	+ 2	W	4	r	2	45	36	0.67
	Belfort ...	29.24	33	SE	1	o	29.30	+ .09	31	30	0	SSW	1	c	*	36	?	0.04
	Lyons ...	29.28	34	SE	1	o	29.36	+ .11	29	28	— 4	S	3	bc	*	39	29	0.04
	Nice ...	29.26	36	E	3	o	29.34	+ .06	37	28	— 2	E	4	b	2	45	28	—
	Perpignan ...	29.36	43	W	5	b	29.45	+ .11	38	36	— 5	SW	3	b	*	42	36	—
	Biarritz ...	29.34	41	W	12	r	29.44	+ .06	45	43	— 4	WSW	12	blr	8	50	39	0.98
	Corunna ...	*	*	*	*	*	30.03	+ .15	53	52	— 1	SW	1	o	2	55	36	0.12
	Lisbon ...	29.89	32	NW	7	c	30.03	+ .15	53	52	— 1	SW	1	o	2	55	36	0.12

For Explanation of Columns, see p. 4.

1887.

(Explanation of Map)

\rightarrow = forces above W_i \rightarrow = forces 8 to W_i
 \rightarrow = forces 5 to 7_i \rightarrow = forces 1 to 4_i
 \odot = dead calm.

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

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

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.

for the month of January

[illegible]

Note - The Temperature means are for the 10 years 1871-80, 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 in the neighbourhood of Lisbon, but relatively high 29.9 ins and upwards in the north of Sweden. Lowest, 28.9 ins in two small depressions lying respectively over the west of Scotland and the mouth of the St. George's Channel.
TEMPERATURE	Highest, 53° at Lisbon and 45° at Leilly and Biarritz. Lowest, 10° at Munich, 24° at York, 26° at Farns and Loughborough and 27° at Berlin. Frost occurred last night over the greater part of the Kingdom.
WIND	Moderate to fresh from NW in Ireland and from W over the English Channel and France. Light SE in Germany and the Netherlands and SE in Denmark. Strong Ely over Scandinavia and the north of Scotland with a gale at Wick.
WEATHER	Fine in the north of Ireland and south of France. Cloudy elsewhere with fog in the east of England, showers on our extreme south-west coasts and snow at Androsian and Bismarck. Lunar halos were seen last night in many parts of the United Kingdom and a thunderstorm occurred at Jersey.
SEA	Very high at Wick, rough off the north of Scotland generally and rather rough on our south-west coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large area of low-pressure still lies over the greater part of the United Kingdom, and although the depression noticed off the north-east of England yesterday has dispersed, two new disturbances have appeared over our western coasts.

The centres of these systems are now lying respectively over the west of Scotland and the mouth of the St. George's Channel; and as the tendency is for them to move eastwards snow is again probable in many parts of Great Britain.

FORECASTS

For the 24 hours ending at NOON on 8th January 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E ^{ly} winds, strong, dull, some snow showers.	6 SCOTLAND WEST	SE ^{ly} and E ^{ly} winds, moderate, dull, some snow.
1 SCOTLAND EAST	E ^{ly} winds, freshening; cloudy, some snow showers.	7 ENGLAND N. W.	— D° — D° —
2 ENGLAND N. E.	SE ^{ly} winds, moderate or fresh, cloudy some snow.	8 ENGLAND S. W.	W ^{ly} winds, strong, cloudy, some cold showers.
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	NW ^{ly} and N ^{ly} winds, fresh, squally, some cold showers.
4 MIDLAND COUNTIES	Same as N° 2.	10 IRELAND SOUTH	— D° — D° —
5 ENGLAND SOUTH	SW ^{ly} winds, light to fresh, fair to unsettled and some snow.	WARNINGS	None issued.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sun.		Bar.	Dry.	Wet.	Wind.	Wea.	Sun.
Skudesnaes ...	29.99	37	31	E 6	0	5	Holyhead ...	28.91	37	35	W 2	csp	2
Sumburgh Head ...	29.11	38	35	E 14	0	6	Valencia ...	29.00	44	42	NW 5	ohg	6
Stornoway ...	28.98	38	37	E 4	6c	0	Scilly ...	29.01	45	43	WSW 8	chg	7
Aberdeen ...	28.90	36	35	ESE 5	73	7	Dungeness ...	28.87	39	38	W 4	c	3
Shields ...	28.82	34	34	NW 2	5	2	London ...	28.90	37	35	WSW 1	ogm	*
Ardrossan ...	28.91	34	32	NW 1	0	1	Yarmouth ...	28.88	28	27	W 3	bm	3
Malin Head ...	28.89	35	34	S 2	0	3	Jersey ...	29.01	41	39	WNW 5	c	4
Mullaghmore ...	28.89	40	38	SSW 2	0p	7	Rochefort ...	29.29	40	39	WNW 3	r	2
Belmullet ...	28.94	42	40	N 5	0p	*							

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

The Continental Reports for yesterday have not arrived.

Remarks for 24 hours ended 8 am Jan 6th.

The Continental Reports for Wednesday January 5th showed that pressure was highest 30.3 in. over Central Russia but relatively high 30.1 in. and upwards over the south of Spain. Over the British Islands, however, there was a trough of low pressure extending in a NW and SE direction, in which the barometer was below 29.0 in., while over the Gulf of Genoa there was a small depression, with readings below 29.5 in. The wind was light from SE. or S. over Central and Southern Europe, and moderate to strong from the eastward in the north, but over Ireland and France strong W² (NW to SW) winds or gales were reported. Cloudy weather prevailed generally, with snow in many parts of Great Britain, and rain at some of the French, Spanish and Italian stations. Temperature had fallen a little in Austria, Germany and the east of France, but risen elsewhere, and readings ranged from 55° and above in Sicily, the west of Spain, and some parts of Algeria to below 15° over Central Germany, and to below zero over Central Sweden. The highest individual readings were 55° at Oran, 53° at Lisbon, 52° at Algiers and Malta, and 51° at Nemours and Palermo; the lowest were -4° at Hemsland, +1° at Carrel, 11° at Carlsruhe, 14° at Gap, and 18° at Haparanda.

In the course of the day very little change occurred. Snow continued to fall in many parts of Great Britain, and hail in Ireland, while at night sharp frost was experienced over nearly the whole of 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 Saturday 8th 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 ...	29.02	29	Z	0	0	29.07	+0.05	29	28	+1	E	2	0	*	32	27	0.08	
Hernösand ...	29.81	33	SE	2	S	29.81	00	33	32	0	S	4	0	*	36	25	0.35	
Stockholm ...	29.62	34	E	2	r	29.55	-0.07	33	33	-2	E	4	S	*	36	32	0.39	
Wisby ...	29.57	35	SE	4	r	29.48	00	35	34	-2	SE	4	0	*	37	32	0.32	
Bodö ...	29.80	35	ESE	6	b	29.80	+0.05	36	35	+6	ESE	6	0	3	?	28	-	
Christiansund...	29.33	39	ESE	4	b	29.50	+0.17	39	34	+2	ESE	4	0	3	41	36	-	
Skudesnaes ...	29.30	38	SE	7	0	29.45	+0.15	39	35	+2	ESE	6	0	4	?	36	-	
Christiania Fjord (Ferdar)	29.33	39	ESE	6	b	29.49	+0.16	34	32	-2	NE	4	C	2	39	30	-	
Skagen (The Scaw)	29.34	34	S	4	0	29.45	+0.11	32	31	-3	Z	0	b	0	36	30	-	
Faou ...	29.30	29	SE	6	b	29.42	+0.12	28	28	+2	ESE	5	m	*	30	?	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.19	38	Z	0	c	29.26	+0.07	39	36	+2	Z	0	b	2	41	33	0.08	
Stornoway ...	29.18	39	ESE	5	b	29.23	+0.05	36	36	-3	NE	12	cp	3	40	33	0.10	
Wick ...	29.18	38	E	5	c	29.26	+0.08	29	28	-9	NNW	2	os	2	39	28	0.15	
Nairn ...	29.11	35	NE	2	0	29.20	+0.09	31	30	-4	Z	0	c	1	35	29	0.22	
Aberdeen...	29.09	39	E	5	chs	29.20	+0.11	34	33	-4	N	4	b	4	39	32	0.17	
Leith ...	29.06	34	SSE	1	m	29.15	+0.09	35	35	+3	NE	1	c	*	37	27	0.03	
Shields ...	29.02	31	Z	0	m	29.07	+0.05	38	36	+8	NE	1	0	2	39	27	0.09	
Spurn Head ...	28.99	35	E	2	c	28.99	00	39	36	+10	SE	6	c	4	39	26	0.16	
York ...	29.02	29	Z	0	0	29.02	+0.00	35	35	+11	ESE	1	m	*	35	24	0.37	
Loughborough	28.97	32	NE	1	S	28.93	-0.04	33	33	+7	SE	1	0	*	33	26	0.71	
Ardrossan ...	29.04	31	E	1	b	29.17	+0.13	35	34	0	NE	1	om	1	35	26	0.01	
Malin Head ...	29.03	37	NE	4	c	29.23	+0.20	40	37	0	NE	3	c	4	40	36	0.03	
Mullaghmore ...	29.00	38	N	5	b	29.23	+0.23	37	35	+7	NE	4	b	2	41	29	0.03	
Belmullet ...	29.06	41	N	7	cp	29.30	+0.24	39	34	+1	N	6	0	*	43	33	0.18	
Donaghadee ...	29.02	35	S	3	b	29.16	+0.14	38	38	+8	NE	5	b	3	38	27	0.18	
Barrow-in-Furness	28.98	30	NE	2	0	29.00	+0.02	34	33	+4	NE	3	om	*	35	27	0.02	
Liverpool (Bidston)	28.97	33	E	1	0	28.98	+0.01	33	32	+5	NE	4	s	3	34	28	0.08	
Holyhead ...	28.96	36	ESE	1	m	29.06	+0.10	39	37	+4	N	5	agm	4	39	34	0.01	
Parsonstown ...	29.02	35	NE	1	b	29.24	+0.22	31	30	-4	Z	0	0	*	35	29	0.03	
Valencia ...	29.12	41	NE	3	cp	29.29	+0.17	36	35	-5	N	2	b	2	44	34	0.17	
Roche's Point...	29.03	37	N	3	b	29.22	+0.19	34	32	-4	N	5	b	4	39	32	-	
Pembroke ...	28.93	37	NE	3	c	29.10	+0.17	36	36	-5	N	3	sq	1	42	34	0.35	
Scilly ...	28.94	42	NE	8	c	29.09	+0.15	41	39	-4	N	6	chq	6	47	39	0.19	
Prawle Point ...	28.84	42	W	5	c	29.08	+0.24	35	34	-7	NE	3	clth	4	45	33	0.05	
Jersey ...	29.00	43	SSW	6	0	29.11	+0.11	39	38	-2	NE	3	b	3	45	37	0.33	
Hurst Castle ...	28.93	42	SW	6	b	29.07	+0.14	35	34	-3	NE	2	om	3	44	33	0.38	
Dungeness ...	29.01	41	SW	5	c	29.07	+0.06	38	37	+9	W	3	c	4	41	26	0.41	
London ...	28.98	38	SSW	4	c	29.06	+0.08	34	33	+2	SW	1	og	*	40	31	0.14	
Oxford ...	28.93	37	SE	4	0	29.03	+0.10	32	31	0	SE	3	s	*	37	31	0.27	
Cambridge ...	28.99	36	S	1	r	29.02	+0.03	34	33	+3	S	2	0	*	37	28	0.11	
Yarmouth ...	29.02	35	SSW	3	c	29.08	+0.06	37	36	+8	SE	5	c	4	37	28	0.10	
Cuxhaven ...	29.27	32	SE	1	0	29.40	+0.13	26	25	-6	SE	1	b	*	34	24	-	
Berlin ...	29.39	24	SE	1	b	29.50	+0.11	16	16	-11	SE	1	b	*	32	14	-	
Wiesbaden ...	*	*	*	*	*	29.41	+0.15	34	33	+2	SE	1	0	*	36	32	0.12	
Munich ...	29.38	17	Z	0	*	29.49	+0.11	12	11	+2	SW	2	c	*	21	9	-	
FRANCE & NETHERLANDS.																		
The Helder ...	*	*	*	*	*	29.24	+0.10	36	34	+4	S	3	0	*	37	34	-	
Brussels ...	29.06	34	SSW	7	0	29.09	+0.03	36	35	-1	SSW	7	0	3	39	34	0.33	
Cape Gris Nez...	29.22	34	SSW	3	0	29.25	+0.03	35	34	+2	S	3	0	*	36	?	-	
Brest ...	29.04	46	WNW	7	0	29.12	-0.02	42	39	-1	W	4	b	5	46	41	0.39	
Lorient ...	?	45	N	5	c	29.20	-0.03	42	39	+1	NE	3	b	5	46	36	0.08	
Rochefort ...	29.35	42	SW	5	c	29.29	-0.04	41	40	0	SE	5	c	2	46	36	0.35	
Belfort ...	29.32	33	SSW	1	0	29.34	+0.02	38	39	+2	E	1	c	*	37	28	0.08	
Lyons ...	29.41	34	S	1	c	29.43	+0.02	35	33	+6	SSW	4	b	*	37	30	-	
Nice ...	29.40	36	E	1	b	29.55	+0.15	36	31	+4	E	4	b	3	45	30	-	
Perpignan ...	29.50	42	W	3	b	29.39	-0.11	31	30	-7	SW	3	0	*	55	29	-	
Biarritz ...	29.43	46	SW	4	0	29.27	-0.17	42	40	-3	SE	4	n	5	48	39	0.63	
PENINSULAR.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

For Explanation of Columns, see p. 4.

WEATHER

for 8 a.m. on Saturday

CHARTS

8th January 1887.

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.

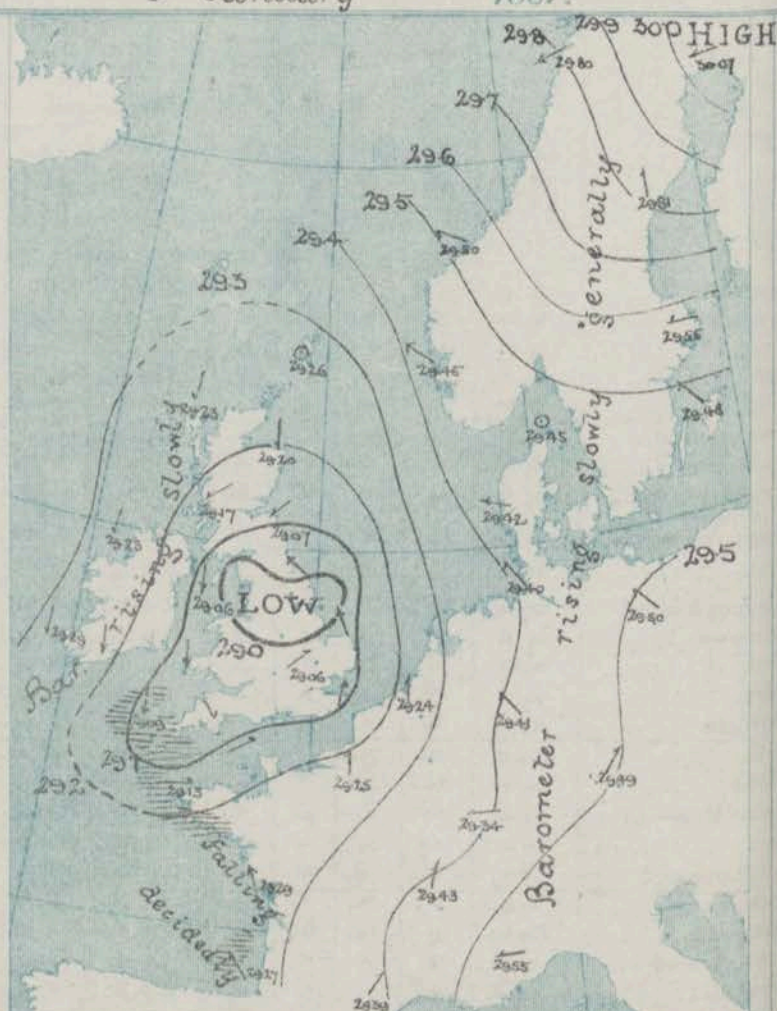
Sea Disturbance — where considerable is shown thus

— = Rough. — = High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.897
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.823
Holyhead	29.875
Liverpool	29.905
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.937
Oxford	29.974
Cambridge	29.975
Yarmouth	29.984



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.

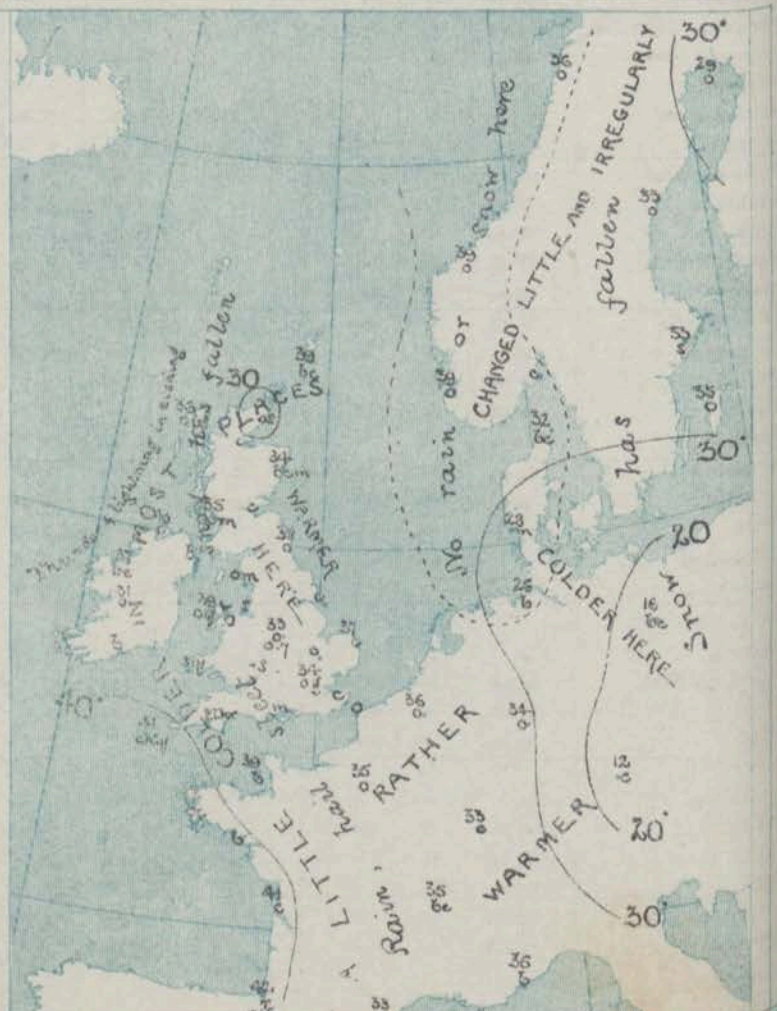
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.8	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.40
Liverpool	44.1	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.0 ins. and upwards in the north of Sweden.
Lowest, 29.0 ins. in a depression lying over the north of England, but relatively low over the whole of England as well as over the Bay of Biscay.

TEMPERATURE

Highest, 43° at Biarritz, 42° at Brest and Lorient and 41° at Scilly.
Lowest, 12° at Munich, 16° at Berlin, 26° at Cuxhaven and 29° at Haparanda and Utsik.
Frost again occurred last night over the greater part of the United Kingdom.

WIND

Moderate SE. or S. over France the Netherlands and the east of England.
Moderate to strong from E. over Scandinavia and Denmark.
W. on our western and northern coasts, light from W. in the Channel.

WEATHER

Fine in Germany, Denmark, Ireland and the north-west of France.
Cloudy or overcast elsewhere, with snow at Utsik, Liverpool, Pembroke and Lifford, and thunderstorms at Pwllheli Point.
During yesterday rain hail or snow fell in nearly all parts of our islands.

SEA

Rough at Scilly and rather rough in the Bay of Biscay, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure recently noticed over our islands has moved slowly south-eastwards and partially filled up, and the barometer has risen over the greater part of Western Europe.

In the south-west of France, however, a new and somewhat decided fall of the mercury has set in during the night. This fall is apparently due to the advance of a depression from the southward, and unsettled weather is therefore likely to continue over the greater part of England.

FORECASTS

for the 24 hours ending at NOON on 9th January 1887.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE ^{ly} winds, moderate; some cold showers, with bright intervals
1	SCOTLAND EAST	D° ——— D°
2	ENGLAND N.E.	SE ^{ly} to E ^{ly} winds, fresh to moderate, dull with some showers, then finer.
3	ENGLAND EAST	D° ——— D°
4	MIDLAND COUNTIES	D° ——— D°
5	ENGLAND SOUTH	Varying SW ^{ly} to SE ^{ly} winds, with changeable weather, slight showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	N ^{ly} winds, moderate; fair as a whole.
7	ENGLAND N.W.	D° ——— D°
8	ENGLAND S.W.	D° ——— D°
9	IRELAND NORTH	D° ——— D°
10	IRELAND SOUTH	D° ——— D°

WARNINGS

None issued.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.19	36	35	NNE 1	0	3	Holyhead ...	28.93	35	35	ENE 3	bc	1
Sumburgh Head ...	29.20	39	35	E 2	bc	4	Valencia ...	29.07	44	42	N 3	bc	3
Stornoway ...	29.11	39	38	ENE 5	cp	4	Scilly ...	28.88	43	43	NW 8	omg	7
Aberdeen ...	29.04	38	36	SSW 4	c	6	Dungeness ...	29.00	40	29	WSW 5	prsu	4
Shields ...	29.01	31	30	SE 1	om	2	London ...	28.95	39	38	SW 4	o	*
Ardrossan ...	28.98	32	32	E 1	o	1	Yarmouth ...	29.02	34	33	SSW 3	bc	2
Malin Head ...	28.92	39	37	NNE 3	o	3	Jersey ...	29.03	43	42	WSW 5	b	5
Mullaghmore ...	28.97	40	39	N 2	cp	3	Rocheport ...	29.37	42	41	SW 4	r	2
Belmullet ...	29.05	41	39	N 7	ohp	*							

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

The Continental Reports for yesterday have not arrived.

Remarks for 24 hours ended at 8 am January 7th.

The reports for Thursday (6th) showed that at 8 am on that day pressure varied from 30.3 ins: and upwards over Russia, and from 29.9 ins: both in the south of Portugal and over Ireland to 28.8 ins: in the centre of a depression which lay over England. A more shallow depression lay, at the same time, over the Gulf of Genoa. The gradients over the North Sea and Scandinavia were rather steep for SE winds, while those over the Iberian Peninsula and Bay of Biscay were moderate for NW winds. Temperature had risen decidedly over Central Europe (where the cold had been so severe on the 5th), but had fallen slightly over the British Isles, where the changes have been so frequent of late. It varied from somewhat below the freezing point over Russia, Scandinavia, North Germany, and many parts of the British Isles to between 40° and 50° in the west of France, and to rather above 50° on the Portuguese coast and over the southern part of the Mediterranean and South-eastern Europe. The highest individual readings were 54° at Lisbon, 53° at Malta, 51° at Legna, and 50° at Brindisi and Palermo; the lowest were 15° F at Archangel, 21° at Moscow, 22° at Loughborough (England), 23° at Haparanda, 25° at Kaini, 26° at Munich and Ardrossan, 28° at Yarmouth, and 30° at Oxford and Cambridge.

During the day temperatures showed some tendency to rise over the British Isles, but again became very low over Central Europe, snow and sleet fell in our Islands, much rain in the south-west of France, and a thunderstorm occurred at Jersey.

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).

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DAILY WEATHER REPORT.

for Sunday 9th 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 ..	29.17	27	E	4	0	29.24	+ .17	26	25	- 3	E	4	0	*	32	25	-	
Hernösand ...	29.88	30	ESE	4	S	29.95	+ .14	30	30	- 3	SSW	4	5	*	36	28	0.39	
Stockholm ...	29.62	34	ESE	4	T	29.79	+ .24	33	33	0	S	2	0	*	36	32	0.24	
Wisby ...	29.55	35	SSW	4	0	29.76	+ .25	32	32	- 3	WSW	4	0	*	38	?	0.04	
Bodö ...	29.88	25	ENE	6	0	29.92	+ .12	32	28	- 4	ESE	6	0	3	36	32	-	
Christiansund...	29.51	39	ESE	1	C	?	?	35	30	- 4	ESE	1	C	3	39	30	-	
Skudesnaes ...	29.50	37	E	2	C	29.62	+ .17	35	31	- 4	SE	4	0	4	39	?	-	
Christiania Fjord (Pierder)	29.47	33	NNW	2	r	29.75	+ .26	33	32	- 1	SSE	4	0	2	34	?	-	
Skagen (The Scaw)	29.54	29	SW	2	0	29.69	+ .24	31	31	- 1	S	4	0	2	36	27	-	
Fanö ...	29.50	26	E	4	m	29.58	+ .16	30	30	+ 2	E	3	m	*	30	28	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.33	38	SE	3	r	29.45	+ .19	39	37	0	S	4	r	5	44	33	0.61	
Stornoway ...	29.31	35	NNE	3	b	29.42	+ .19	27	27	- 9	WNW	2	b	1	38	25	-	
Wick ...	29.33	34	Z	0	C	29.44	+ .18	30	?	+ 1	Z	0	C	6	35	25	0.12	
Nairn ...	29.28	32	Z	0	S	29.42	+ .23	32	30	+ 1	Z	0	0	1	33	26	-	
Aberdeen...	29.26	35	NNW	3	p	29.42	+ .22	35	34	+ 1	Z	0	C	2	35	33	0.20	
Leith ...	29.23	36	NE	2	C	29.37	+ .22	35	35	0	Z	0	C	*	37	33	0.08	
Shields ...	29.16	38	ESE	3	or	29.37	+ .30	33	32	- 5	N	1	C	3	40	32	0.13	
Spurn Head ...	29.17	36	SE	4	bc	29.32	+ .35	38	36	- 1	ESE	3	C	3	39	34	-	
York ...	29.15	35	E	1	m	29.34	+ .32	34	33	- 1	ESE	1	0	*	36	32	0.10	
Loughborough	29.12	31	ESE	2	b	29.28	+ .35	33	33	0	S	1	og	*	35	25	-	
Ardrossan ...	29.23	32	ENE	1	C	29.39	+ .22	33	32	- 2	Z	0	of	0	35	32	-	
Malin Head ...	29.26	39	NNE	3	chp	29.39	+ .16	38	37	- 2	NE	3	of	3	40	35	0.08	
Mallaghmore ...	29.31	37	NNW	4	cp	29.40	+ .17	38	37	+ 1	NNE	4	cp	2	44	33	0.15	
Belanille ...	29.39	37	N	2	b	29.44	+ .14	38	38	- 1	NNW	3	of	*	43	36	0.11	
Dónaghadee ...	29.22	40	NE	5	C	29.37	+ .21	37	36	- 1	E	2	C	0	40	35	0.03	
GERMANY.																		
Barrow-in-Furness	29.10	34	NE	2	0	29.24	+ .34	33	33	- 1	NE	3	TS	*	36	31	0.01	
Liverpool (Bidston)	29.07	33	NE	2	S	29.31	+ .33	32	31	- 1	ENE	1	0	2	35	30	0.24	
Holyhead ...	29.10	40	N	6	ohp	29.34	+ .25	37	35	- 2	NE	1	om	2	41	35	0.15	
Parsonstown ...	29.22	33	NW	1	bc	29.41	+ .17	33	32	+ 2	Z	0	0	*	38	31	-	
Valencia ...	29.40	40	NNW	3	bc	29.52	+ .23	39	38	+ 3	NNW	1	bc	1	45	34	0.06	
FRANCE & NETHERLANDS.																		
Roche's Point...	29.31	39	N	3	b	29.44	+ .22	36	34	+ 2	NW	3	b	3	41	32	-	
Pembroke ...	29.14	37	NNW	5	0	29.34	+ .24	40	38	+ 4	NW	6	cp	5	40	30	0.20	
Scilly ...	29.23	42	NNW	6	og	29.42	+ .33	44	40	+ 3	NW	6	C	5	44	37	0.09	
Prawle Point ...	29.19	35	NNW	2	b	29.34	+ .26	37	35	+ 2	NNW	4	bc	3	42	33	0.01	
Jersey ...	29.18	28	SW	2	cp	29.35	+ .24	42	39	+ 3	NNW	4	og	4	44	35	0.08	
ITALY.																		
Hurst Castle ...	29.15	32	Z	0	bc	29.26	+ .19	36	35	+ 1	W	3	om	2	42	30	0.02	
Dungeness ...	29.20	41	SSW	4	C	29.26	+ .19	40	39	+ 2	S	4	r	4	41	33	0.05	
London ...	29.17	35	S	3	C	29.28	+ .22	32	33	- 1	Z	0	fgptv	*	39	31	0.04	
Oxford ...	29.16	29	S	3	bc	29.27	+ .24	32	31	0	SSE	1	og	*	35	28	0.02	
Cambridge ...	29.16	35	S	1	0	29.31	+ .29	35	30	+ 1	SE	1	0	*	36	28	0.05	
Yarmouth ...	29.20	34	SSW	1	bc	29.32	+ .24	37	36	0	SE	4	bc	3	38	32	0.02	
Cuxhaven ...	29.45	30	ESE	1	0	29.50	+ .10	28	27	+ 2	ESE	3	0	*	?	25	-	
Berlin ...	29.61	24	SSE	3	C	29.67	+ .17	18	18	+ 2	ESE	1	bc	*	27	18	-	
Wiesbaden ...	*	*	*	*	*	29.45	+ .04	29	26	- 5	NE	2	C	*	37	28	-	
Munich ...	29.61	33	E	2	b	29.40	- .09	12	11	0	E	3	C	*	28	9	-	
GREECE.																		
The Helder ...	29.33	35	ESE	1	0	29.41	+ .13	34	33	- 1	SSE	1	0	1	36	34	-	
Brussels ...	*	*	*	*	*	29.37	+ .13	35	34	- 1	SSE	1	r	*	39	34	0.04	
Cape Gris Nez...	29.30	36	SE	4	0	29.39	+ .14	34	34	- 1	SW	1	0	*	29	34	-	
Brest ...	29.26	41	NNW	7	bc	29.43	+ .30	45	41	+ 3	N	7	0	5	46	34	0.04	
Lorient ...	29.27	42	NW	5	b	29.50	+ .30	40	39	- 2	NNW	5	0	5	46	36	0.04	
Rochefort ...	29.35	44	SW	4	b	29.58	+ .29	42	40	+ 1	NNW	4	b	2	46	34	0.16	
Belfort ...	29.41	38	E	1	0	29.45	+ .11	31	30	- 2	WSW	1	0	*	37	30	-	
Lyons ...	29.34	37	ENE	3	0	29.51	+ .08	33	32	- 2	WSW	1	0	*	41	32	-	
Nice ...	*	*	*	*	*	29.45	+ .04	29	26	- 5	NE	2	C	*	37	28	-	
Perpignan ...	29.26	43	NW	3	0	29.53	+ .14	41	38	+ 10	NNW	3	bc	*	51	38	-	
Biarritz ...	29.34	47	NNW	7	r	29.61	+ .34	43	41	+ 1	SW	7	0	5	48	37	0.39	
Corunna ...	*	*	*	*	*	29.78	+ .33	45	43	+ 3	WSW	4	bc	5	50	39	0.28	
Lisbon ...	29.73	48	W	3	b	29.91	+ .30	45	43	- 1	WNW	1	b	5	54	41	0.12	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Sunday 9th January



1887.

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 —

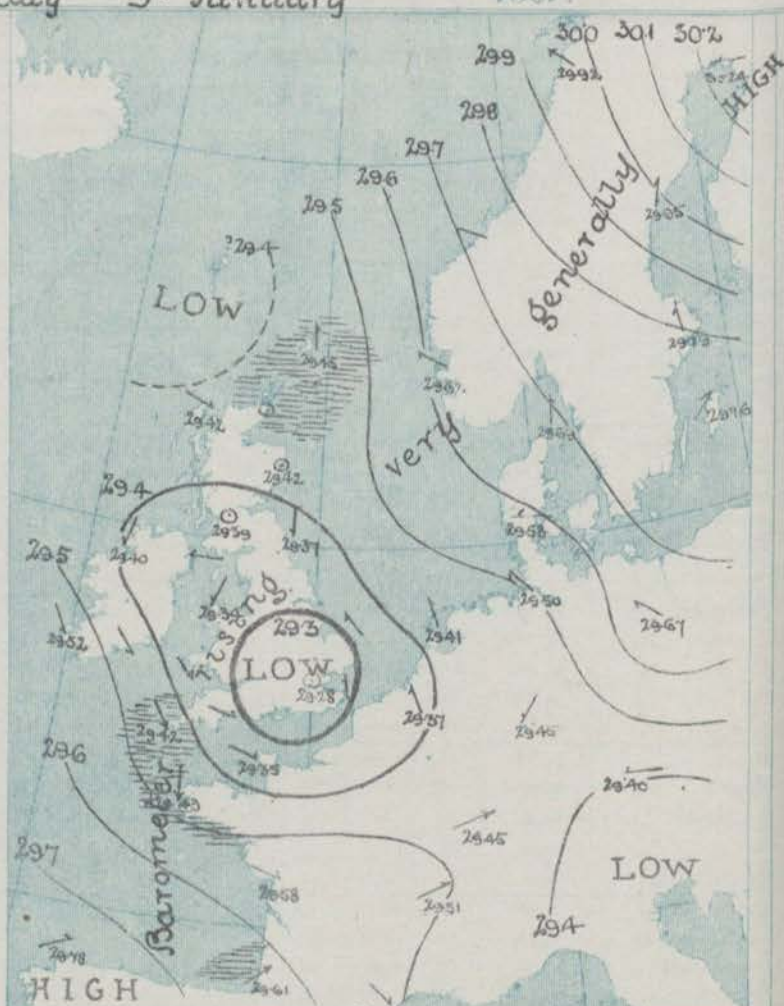
→ = forces above 10 → = forces 8 to 10
 → = forces 5 to 7 → = forces 1 to 4
 ○ = dead calm.

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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Roch's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

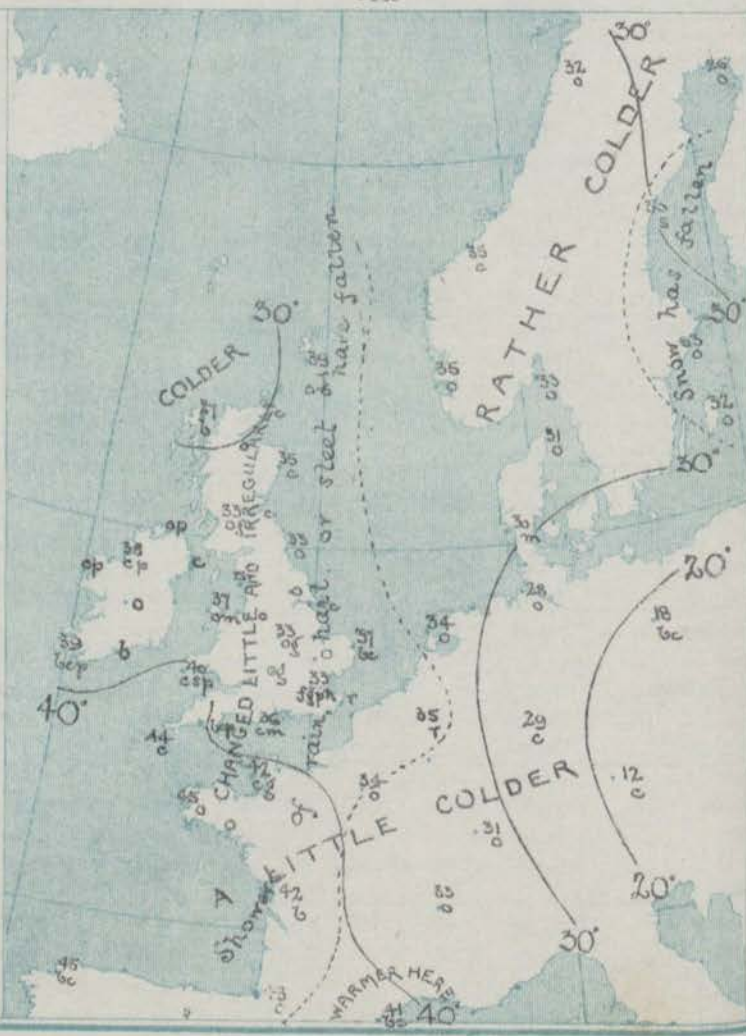
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	41.4	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.02
Scilly	49.3	43.6	46.5	45.6	3.03
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.8	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	48.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.6	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins: and upwards in the north of Sweden, but relatively high 29.9 ins: and upwards over Portugal.
Lowest, 29.3 ins: and less in a depression lying over Central and southern England, but relatively low 29.4 ins: and less in two other disturbances lying respectively over South Germany and to the N^W of Scotland.

TEMPERATURE

Highest 45° at Shet, Conna, Lisbon, and also at Seilly.
Lowest 12° at Munich, 18° at Berlin, 26° at Haparanda, and 27° at Stenway.

WIND

Frost occurred last night over the greater part of the United Kingdom.
Light or moderate SE. over Scandinavia, Denmark, the Netherlands and the east of England.
Moderate to strong NW. on the west coasts of our islands and France.
Light W or SW. in the Channel and north of France. Calm in Scotland.

WEATHER

Cloudy in most places, with snow at Hemsland, sleet at Banarwin, Thurness, hail in London & rain at Pungers.
Snow or sleet fell yesterday in most parts of the Kingdom.

SEA

Rough at Wick, and rather rough at Lumburg Hd and Seilly as well as over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system recently noticed over our islands appears to be steadily filling up, and the barometer has risen generally. At present there is no sign of any new disturbance.

FORECASTS

For the 24 hours ending at NOON on 10th JANUARY 1887.

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.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenaes ...	29.46	39	34	ESE 4	bc	4	Holyhead ...	29.06	39	38	N 3	bc	3
Sumburgh Head ...	29.32	39	36	SE 1	c	3	Valencia ...	29.35	45	43	N 3	bc	3
Stornoway ...	29.27	37	36	NE 3	b	2	Scilly ...	29.18	42	39	N 6	c	6
Aberdeen ...	29.22	35	34	N 4	pm	3	Dungeness ...	29.14	40	39	S 4	bc	2
Shields ...	29.12	40	39	E 3	op	2	London ...	29.13	39	37	SW 2	bc	*
Ardrossan ...	29.10	35	34	NNE 1	c	1	Yarmouth ...	29.15	37	36	SW 3	cm	4
Malin Head ...	29.24	38	37	N 3	o	4	Jersey ...	29.44	40	39	WSW 4	c	4
Mullaghmore ...	29.28	41	38	N 2	bc	2	Rochefort ...	29.20	42	41	S 5	r	2
Belmullet ...	29.53	43	40	N 5	bc	*							

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

The reports for yesterday showed that pressure varied from a little above 30.3 ins. over Central Russia to 29.4 ins. in a small depression over Ireland and to a little below 29.0 ins. in a large depression over England. Under these conditions the wind was S. over the greater part of Europe, and of little strength, while over the United Kingdom there was a complete cyclonic circulation round the depression mentioned above, the N. winds blowing strongly on our western coast. The weather was fine in the east, dull and unsettled in the west, where showers of cold rain, sleet, or snow were reported very generally. At Loughborough the fall of snow was heavy. Temperature was low generally, especially over the Continent; it varied from about 7° F. over the Central parts of North Germany, from 14° over Central Russia, and from about 23° at Rome, to a little above 40° at the mouth of the English Channel and over the Bay of Biscay, and to rather above 50° over the southern part of the Mediterranean. The highest individual readings were 52° at Malta, 51° at San Fernando and at the western stations in Algeria, 46° at Cagliari, 44° at Scilly and 40° at Malin Head, the lowest 6° at Hague, 10° at Moscow, 12° at Munich, 15° at Lwizemunde, 16° at Berlin, and 24° at Copenhagen and Archangel.

(During the day little change occurred over the British Isles, where the depression held its own, though the barometer began to rise generally.

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 10th January 1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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.		
	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.																		
Haparanda ..	30.34	17	SE	6	0	30.40	+16	15	14	-11	SE	4	0	*	28	?	-	
Hernösand ...	30.08	20	SE	2	S	30.26	+31	31	30	+1	SE	0	0	*	32	28	0.32	
Stockholm ...	30.03	31	SSE	2	0	30.19	+40	27	26	-6	SE	2	0	*	36	?	-	
Wisby ...	29.97	33	SSE	4	0	30.09	+33	34	32	+2	SE	4	0	*	36	30	-	
Bodö ...	29.99	28	E	8	C	30.09	+17	26	24	-6	ESE	6	0	3	32	25	-	
Christiansund...	29.76	31	ESE	1	b	29.93	+39	34	30	-1	ESE	3	0	2	?	28	-	
Skudesnaes ...	29.78	38	SE	4	0	29.83	+21	38	34	+3	E	4	0	3	?	?	-	
Christiania Fjord (Fjord)	29.91	30	ESE	4	0	30.03	+28	29	28	-4	SE	6	0	2	34	27	-	
Skagen (The Scaw)	29.84	33	SE	3	bc	29.90	+21	34	33	+3	SSE	5	0	3	?	30	-	
Faou ...	29.62	31	E	5	0	29.60	+22	27	27	-3	SSE	2	0	*	?	27	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.55	40	SE	2	C	29.67	+22	40	38	+1	SSE	4	0	4	42	35	0.19	
Stornoway ...	29.50	31	WNW	2	b	29.56	+14	38	36	+11	S	4	0	4	40	25	0.02	
Wick ...	29.54	40	S	2	C	29.63	+19	39	38	+9	S	3	0	3	40	30	0.20	
Nairn ...	29.53	32	SE	0	0	29.62	+19	26	25	-6	SE	0	0	0	33	24	-	
Aberdeen...	29.51	38	SE	3	bc	29.65	+23	32	32	-3	SE	0	bc	2	38	32	0.13	
Leith ...	29.50	37	W	1	m	29.67	+30	32	32	-3	SE	1	m	*	36	31	0.02	
Shields ...	29.47	36	N	2	3	29.68	+31	32	31	-1	WNW	2	b	2	38	30	0.22	
Spurn Head ...	29.40	36	N	2	C	29.64	+32	36	35	-2	WNW	3	bc	3	40	33	0.04	
York ...	29.44	34	ESE	1	0	29.70	+36	32	32	-2	N	1	b	*	37	31	0.11	
Loughborough	29.42	34	WNW	1	0	29.71	+43	32	32	-1	WNW	2	C	*	34	32	0.01	
Ardrossan ...	29.50	32	ESE	1	bc	29.66	+27	29	29	-4	ESE	1	of	1	34	28	-	
Malin Head ...	29.49	38	SE	2	0	29.55	+16	35	34	-3	S	3	0	3	39	33	0.02	
Mullaghmore ...	29.52	34	S	1	b	29.58	+18	39	36	+1	S	4	0	2	44	31	-	
Belmullet ...	29.52	38	S	2	bc	29.54	+10	39	39	+1	SE	4	0	*	44	36	0.22	
Donaghadee ...	29.52	31	W	1	b	29.68	+31	26	26	-11	W	2	b	0	38	25	-	
GERMANY.																		
Barrow-in-Farress	29.45	34	NW	3	0	29.68	+34	29	29	-4	N	2	bc	*	35	28	0.01	
Liverpool (Bidston)	29.48	34	NE	1	0	29.71	+40	34	33	+2	WNW	1	bc	2	36	32	0.04	
Holyhead ...	29.47	38	NE	1	om	29.71	+37	35	35	-2	WNW	1	cm	1	40	34	-	
Parsonstown ...	29.56	30	SE	0	b	29.66	+25	31	30	-2	SE	0	b	*	37	25	-	
Valencia ...	29.59	39	WNW	2	0	29.61	+09	42	41	+3	W	1	0	1	47	36	0.11	
Roche's Point...	29.56	40	NW	3	bc	29.67	+23	45	44	+9	S	5	0	4	45	29	-	
Pembroke ...	29.50	38	N	3	bc	29.73	+39	40	37	0	SW	1	b	1	40	36	0.03	
Scilly ...	29.52	45	WNW	6	C	29.84	+42	45	43	+1	SSW	3	C	4	46	41	-	
Prawle Point ...	29.53	35	NW	3	bc	29.80	+46	36	34	-1	NW	1	b	1	43	32	0.01	
Jersey ...	29.52	41	WNW	3	b	29.81	+46	39	37	-3	WNW	1	bc	1	45	37	0.05	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.47	36	NW	4	m	29.78	+52	32	31	-4	WNW	3	m	2	37	28	-	
Dungeness ...	29.36	34	W	2	0	29.72	+46	32	32	-8	WNW	3	m	2	40	32	0.15	
London ...	29.38	35	SW	2	rsp	29.76	+48	33	32	0	WNW	2	cm	1	35	30	0.05	
Oxford ...	29.47	33	WNW	2	S	29.77	+50	26	26	-6	W	1	b	*	34	26	0.06	
Cambridge ...	29.42	35	W	0	0	29.73	+42	35	30	0	W	1	asp	*	36	31	0.13	
Yarmouth ...	29.38	37	SSE	2	bc	29.68	+36	34	33	-3	W	1	fg	3	38	31	0.03	
Cuxhaven ...	29.55	30	SSE	3	0	29.80	+30	30	29	+2	S	2	f	*	30	28	-	
Berlin ...	29.67	24	E	1	bc	29.90	+23	19	19	+1	SSE	1	b	*	25	18	*	
Wiesbaden ...	*	*	*	*	*	29.87	+42	30	29	+1	SE	0	0	*	32	27	-	
Munich ...	29.66	31	W	4	0	29.86	+46	29	29	+17	SE	0	S	*	32	12	0.08	
SPAIN.																		
The Helder ...	29.49	34	SSE	1	C	29.73	+32	34	33	0	S	1	f	1	36	34	-	
Brussels ...	*	*	*	*	*	29.78	+41	35	35	0	SSW	3	0	*	37	35	0.08	
Cape Gris Nez...	29.39	37	SW	4	0	29.75	+37	34	34	0	W	4	m	3	41	34	0.16	
Paris ...	29.60	35	SW	3	bc	29.80	+41	32	31	-2	S	1	0	*	36	31	-	
Brest ...	29.62	44	WNW	5	b	29.81	+38	43	41	-2	NNE	4	bc	4	46	39	-	
Lorient ...	29.65	41	W	3	C	29.89	+39	41	39	+1	E	1	b	4	43	37	0.08	
Rochefort ...	29.73	33	W	4	b	29.91	+33	44	41	+2	NW	4	b	2	46	36	0.28	
Belfort ...	29.65	28	WSW	1	0	29.84	+35	22	22	-9	SW	1	bc	*	36	20	-	
Lyons ...	29.76	28	WSW	1	bc	29.89	+38	28	27	-5	N	8	0	*	39	23	-	
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Perpignan ...	29.74	43	NW	3	C	29.84	+31	42	36	+1	NW	3	0	*	67	36	-	
Biarritz ...	29.81	44	WSW	4	bc	29.92	+31	46	45	+3	W	4	nl	2	46	39	0.32	
Coranna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 10th January.

1887.

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 —

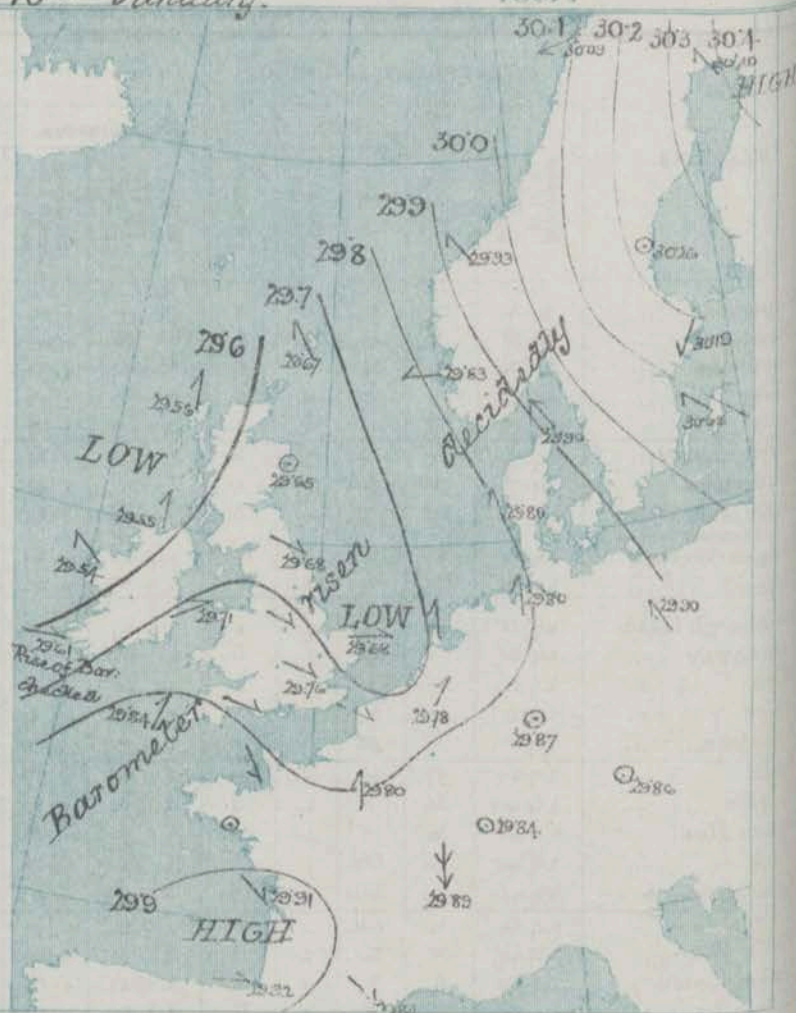
→ — forces above 10, → — forces 8 to 10,
 → — forces 5 to 7, → — forces 1 to 4,
 ○ — dead calm.

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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.829
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.	
			Dec.	Jan.	
Sumburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.6	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.28
Valencia	40.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.8	43.6	46.5	45.0	3.93
Hurst Castle	45.1	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.8	36.6	2.38
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—83.



YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.70	38	34	ESE 4	c	4	Holyhead ...						
Sumburgh Head							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	29.67	44	41	NW 5	r	2
Belmullet ...													

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

The reports for yesterday showed that at 8 am pressure varied from 30.3 ins and upwards over Central Russia, and from 29.9 ins over the extreme south-west of Portugal to rather below 29.3 ins over the south-east of England and north-east of France, and to about 29.4 ins over the south of France. Thus, while over Central, Eastern and Northern Europe the wind was SE^{ly} to E^{ly}, in the west it was NW^{ly}, and over the British Isles there was a complete cyclonic circulation of light to moderate winds. The weather was gloomy, dull and unsettled generally, with occasional showers of snow, sleet or cold rain in many places. Temperature had fallen again over Germany, but had not changed much in the west. It ranged from below 15° F. near Breslau, and from rather below 23° over Russia to a little above 40° at the mouth of the English Channel and in the southern parts of France and Austria, and to 50° or more over all the southern parts of the Mediterranean. The highest individual readings were 55° at Malta, 51° at Palermo, Rome and Sasina, 50° at Brindisi and Naples and 42° at Scilly; the lowest were 12° at Breslau, 15° at Archangel, 17° at Kuopio, 18° at Moscow, Warsaw and Odessa.

During the day, the depression over the British Isles seemed to be growing shallower, but cold, showery weather continued. In the north-west of Ireland, however, a S^{ly} breeze began to show itself.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 2ND TO THE 8TH JANUARY 1887.

The weather experienced during this week has been of three distinct types.

The first prevailed on Monday, when a broad high-pressure band, in which were three distinct maxima, lay from south to north-east from the Bay of Biscay to the south of Sweden and the Baltic. To the north-westward of this band there were SW^{ly} to SE^{ly} winds of little strength with showery weather, while to the southward (i.e. over south-eastern Europe) the wind was NE^{ly} to N^{ly}, and the weather dull, but fair. The cold was very sharp except in the north-west, where readings were from 20° to 25° higher than those over our south-eastern countries. In Sweden the cold was intense (44° F. below the freezing point at Hermösund).

The second was cyclonic and was brought about by the advance of a deep depression to our north-western coast, while a "V" shaped subsidiary disturbance was formed over Great Britain. The winds varied from SW to NW, and blew hard in places, the weather became milder, but wet and unsettled, and rain or sleet fell in all districts.

The third, also, was cyclonic and was brought about by the disappearance of the depression in the north-west, and the subsequent development of the subsidiary system into an independent depression which lay over the United Kingdom from the 6th to the end of the week. This was accompanied by a continuance of dull, cold, unsettled weather, fitful changes of temperature, showers of rain and sleet or snow, and a complete cyclonic circulation of moderate winds. The barometer was below 29.0 ins in London for about three days, but at the close of the week was rising generally.

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 11th January 1887.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 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.		
Haparanda ..	30.50	15	SE	2	0		30.49	+0.09	18	18	+3	SE	2	0	*	18	14	0.08	
Hernösand ...	30.40	30	SE	2	0		30.41	+1.15	33	32	+2	ESE	4	0	*	34	28	0.04	
Stockholm ...	30.31	33	SE	2	0		30.34	+1.15	33	31	+6	ESE	4	0	*	34	27	-	
Wisby ...	30.24	32	SE	4	0		30.27	+1.18	33	33	-1	SE	4	6c	*	36	30	-	
Bodö ...	30.13	26	ESE	6	6		30.08	-0.01	33	29	+7	ESE	6	0	3	?	25	-	
Christiansund...	29.89	?	E	1	0		29.94	+0.01	36	32	+2	SSE	1	6c	2	39	34	-	
Skudesnaes ...	29.95	39	SE	6	0		29.96	+1.13	38	36	0	SE	6	0	5	39	?	-	
Christiania Fjord (Færder)	30.10	34	E	4	0		30.12	+0.09	34	33	+5	SSE	4	0	3	34	?	-	
Skagen (The Scaw)	30.06	35	SW	5	0		30.13	+1.23	32	31	-2	SSW	3	0	2	36	30	0.28	
Fanø ...	30.08	27	SSE	2	0		30.15	+1.35	26	26	-1	SSE	3	0	6	30	25	-	
Sumburgh Head	29.68	39	SSE	2	0		29.46	-2.21	43	40	+3	SSE	6	0	6	43	38	0.09	
Stornoway ...	29.56	42	S	5	6		29.01	-5.55	46	44	+2	SSE	8	0	7	46	36	0.32	
Wick ...	29.65	38	S	2	6		29.25	-4.38	41	41	+2	SSE	10	0	8	41	35	0.03	
Nairn ...	29.64	25	W	0	6		29.17	-4.45	41	39	+15	SE	3	0	3	41	22	0.01	
Aberdeen...	29.73	30	SW	1	6		29.47	-1.28	40	39	+1	S	9	0	8	40	29	0.20	
Leith ...	29.76	31	NW	1	0		29.30	-1.37	41	39	+2	SW	7	0	*	41	27	0.01	
Shields ...	29.80	34	W	0	0		29.55	-1.23	38	37	+1	SSE	6	0	3	38	29	0.07	
Spurn Head ...	29.86	33	SSW	2	6		29.77	+1.13	37	36	+1	SSE	6	0	3	38	25	-	
York ...	29.85	32	SSW	1	0		29.67	-0.03	35	35	+3	ESE	5	0	*	38	24	0.12	
Loughborough	29.89	25	SE	1	6		29.71	-0.00	36	35	+1	SE	6	0	*	38	23	0.09	
Ardrossan ...	29.69	33	ESE	2	0		29.22	-4.44	42	42	+13	ESE	6	0	5	42	26	0.02	
Malin Head ...	29.50	37	SSE	4	0		29.17	-3.38	44	43	+1	NW	3	0	3	47	35	0.18	
Mullaghmore ...	29.44	43	SSE	7	0		29.20	-3.38	45	43	+2	NW	7	0	6	50	39	0.33	
Belanulet ...	29.37	41	S	5	0		29.31	-0.23	43	40	+3	NW	6	0	*	47	37	0.30	
Donaghadee ...	29.67	43	SSW	4	0		29.23	-4.45	48	48	+22	SSW	8	0	5	48	26	0.50	
Barrow-in-Farness	29.79	31	SSE	3	0		29.44	-2.24	38	37	+1	SE	9	0	*	38	28	0.48	
Liverpool (Bidston)	29.81	30	SE	3	6		29.50	-2.21	39	37	+2	SSE	7	0	4	39	30	0.05	
Holyhead ...	29.78	39	SSE	5	0		29.37	-3.34	45	45	+10	S	8	0	5	45	35	0.21	
Parsonstown ...	29.54	44	SE	1	0		29.35	-1.31	44	43	+1	NW	1	0	*	50	30	0.36	
Valencia ...	29.40	49	SE	8	0		29.46	+0.15	44	42	+2	NW	4	0	4	52	41	0.66	
Roche's Point...	29.57	47	S	6	0		29.34	-1.33	46	46	+1	NW	5	0	5	48	45	1.05	
Pembroke ...	29.71	48	SSE	5	0		29.46	-2.27	48	48	+8	SSE	7	0	6	48	40	0.40	
Scilly ...	29.71	50	S	6	0		29.53	-2.21	51	51	+6	SSW	7	0	6	51	45	0.27	
Prawle Point ...	29.86	46	SSE	5	0		29.70	-1.10	47	47	+11	SSE	7	0	7	47	35	0.10	
Jersey ...	29.93	42	SSE	2	6		29.86	+0.05	38	38	-1	S	6	0	5	48	37	0.07	
Hurst Castle ...	29.93	30	SE	2	6		29.85	+0.07	41	40	+1	SSW	7	0	3	43	30	0.06	
Dungeness ...	29.94	35	NW	2	6		29.96	+0.24	37	37	+5	SSW	5	0	5	41	31	-	
London ...	29.93	33	SSE	1	6		29.90	+0.14	37	35	+2	SSE	4	0	5	38	31	-	
Oxford ...	29.93	29	S	2	6		29.80	+0.03	37	36	+1	SSW	5	0	5	38	26	0.05	
Cambridge ...	29.93	29	W	1	6		29.66	+1.13	36	35	+1	SE	3	0	*	38	24	-	
Yarmouth ...	29.92	34	W	2	6		29.95	+0.27	36	35	+1	S	5	0	4	36	31	-	
Cuxhaven ...	30.07	31	SSE	2	6		30.13	+0.33	30	29	0	SSE	2	0	*	31	28	-	
Berlin ...	30.11	25	ESE	1	0		30.24	+0.34	27	26	+1	E	1	0	*	28	?	-	
Wiesbaden ...	*	*	*	*	*		30.19	+0.32	17	17	-13	SE	2	0	*	36	16	-	
Munich ...	30.00	26	E	1	0		30.10	+0.24	25	25	-4	SE	1	0	*	32	25	0.04	
The Helder ...	29.98	34	S	1	0		30.09	+0.36	31	31	-3	S	1	0	2	36	30	-	
Brussels ...	*	*	*	*	*		30.13	+0.35	30	29	-5	S	1	0	2	37	29	-	
Cape Gris Nez...	29.95	39	WSW	3	6		30.00	+0.25	31	31	-6	S	7	0	5	37	30	-	
Paris ...	30.05	33	S	1	0		30.12	+0.32	33	31	+1	S	1	0	*	36	32	-	
Brest ...	29.86	48	SSE	5	0		29.74	-0.04	50	50	+7	S	7	0	5	?	41	0.24	
Lorient ...	29.97	46	S	3	6		29.89	-0.00	49	48	+1	S	7	0	5	?	37	0.16	
Relhefort ...	30.06	42	SE	3	6		30.07	+0.16	35	35	-9	SE	7	0	2	52	28	-	
Belfort ...	29.97	44	SW	1	6		30.08	+0.24	23	23	+1	W	0	5	*	34	13	-	
Lyons ...	30.02	34	NW	5	0		30.13	+0.24	29	28	+1	ESE	4	0	*	39	?	-	
Nice ...	29.68	39	W	0	6		29.87	+0.41	36	36	+1	E	3	0	2	46	34	-	
Perpignan ...	29.77	43	NW	4	6		29.97	+0.13	41	37	-1	NW	3	0	*	49	39	-	
Biarritz ...	30.00	46	S	4	0		30.02	+0.10	39	37	-7	SE	4	0	2	?	37	0.24	
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.19	51	SSW	1	0		30.12	-0.01	54	51	+8	SW	4	0	2	55	?	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Tuesday, 11th January,

1887.

BAROMETER, WIND & SEA.

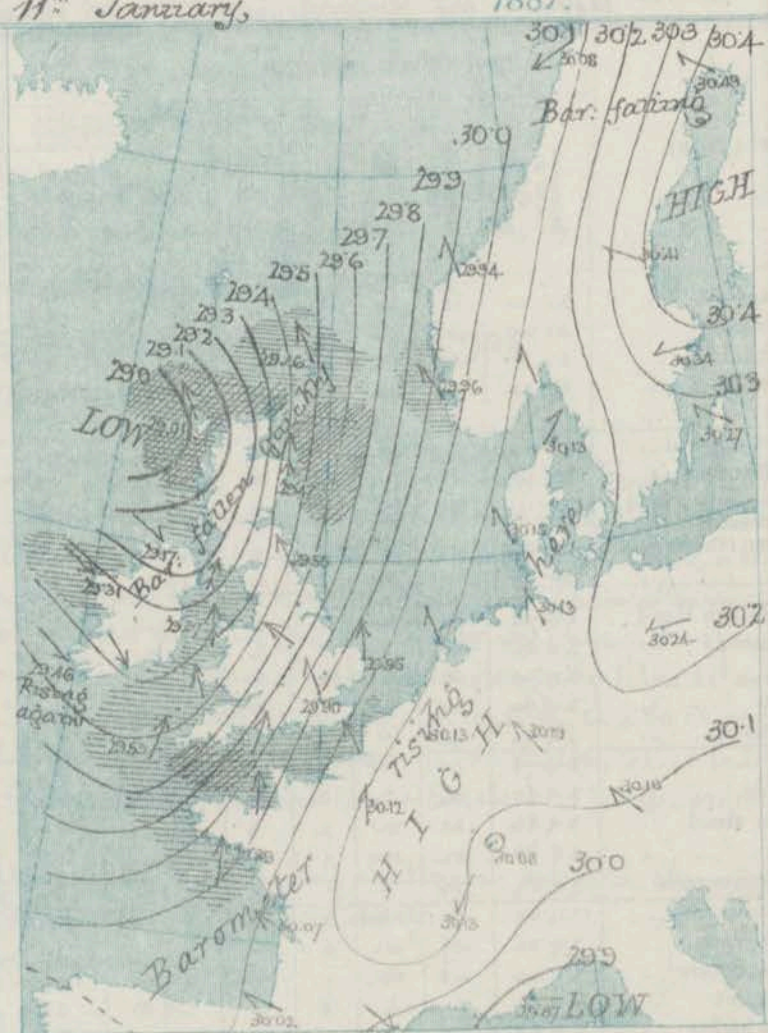
(Explanation of Map)

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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>Int.</i>
Sumburgh Head	29.861
Stornoway	29.857
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.825
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.954



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

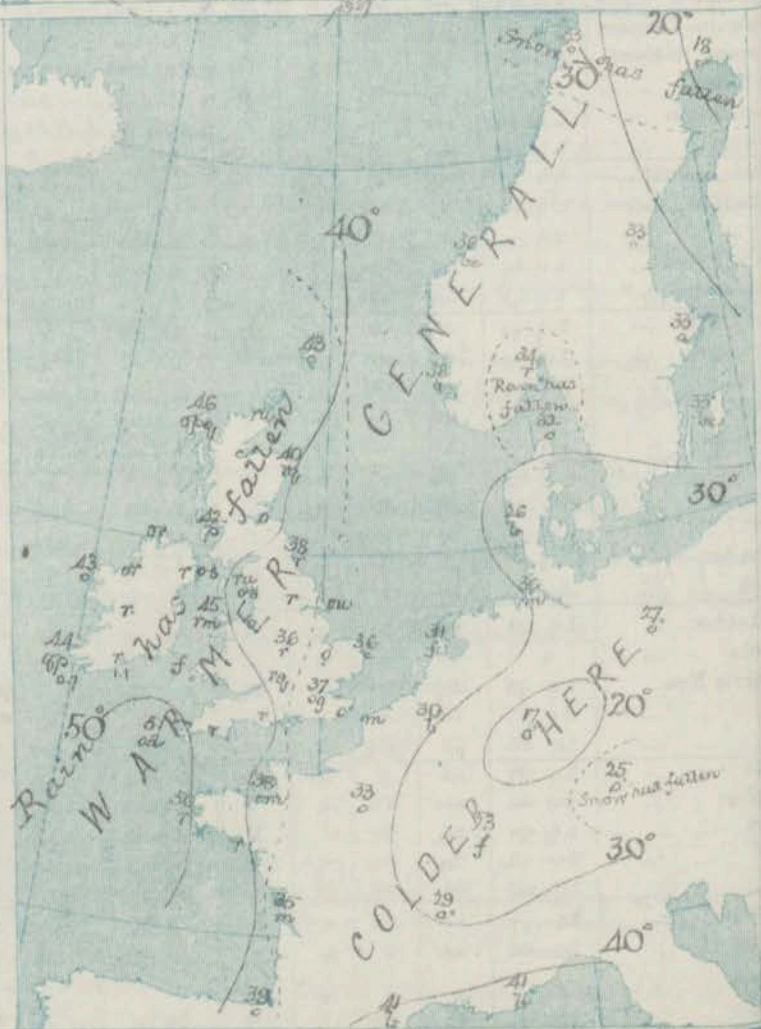
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — Is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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.		
			Day.	Night.	
Sumburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.0	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.8	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.58
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.0	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards over the Gulf of Bothnia, but relatively high 30.1 ins: and upwards in Portugal.
Lowest, 29.0 ins: and less in a cyclonic centre lying to the westward of the Hebrides.

TEMPERATURE

Highest, 54° at Lisbon, 51° at Scilly, 50° at Brest, and 48° at Donaghadee and Pembroke.
Lowest, 17° at Nissbaden, 18° at Haparanda, 23° at Belfast; lowest in our Islands 35° at York.

WIND

Fresh to strong from NW. in Ireland, and variable in the south of France.
SE or S elsewhere, moderate at the Continental stations, but strong over Great Britain; fresh to whole gale over Scotland, the Irish Sea, and the English Channel.
A gale from SE or S was experienced in Ireland last night.

WEATHER

Fine in the south of France, but dull elsewhere, with rain in many parts of the United Kingdom.
Solar halos were seen yesterday at Holyhead and Babbacombe, and lunar halos at several of our stations.

SEA

Very high at Wick and Aberdeen, high at Stornoway and Howle Point, and rough or rather so on nearly all parts of our coasts.

At the summit of Ben Nevis the barometer at 8 am stood at 24.63 ins: with a fresh gale from SSE, a temperature of 22° and snow.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night the centre of a large and deep depression has appeared off the west of Scotland, while some subsidiary disturbances have advanced directly over Ireland, and the English and Bristol Channels.

The main system seems likely to travel away in a northerly direction, but the subsidiary depressions will probably extend eastwards and occasion a considerable increase of wind on our eastern and southern coasts.

FORECASTS

For the 24 hours ending at NOON on 12th JANUARY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 SCOTLAND NORTH	S th gales, veering and moderating later; squally and rainy to fair.	* 6 SCOTLAND WEST	SE and S th gales, veering and moderating later; squally and rainy to fair.
* 1 SCOTLAND EAST	-----D°-----D°-----D°-----	* 7 ENGLAND N.W.	-----D°-----D°-----D°-----
* 2 ENGLAND N.E.	Same as N° 5	* 8 ENGLAND S.W.	S th to W th strong winds and gales; squally, rainy.
* 3 ENGLAND EAST	Same as N° 5	* 9 IRELAND NORTH	NW winds, strong; squally, some showers.
* 4 MIDLAND COUNTIES	Same as N° 5	* 10 IRELAND SOUTH	-----D°-----D°-----D°-----
* 5 ENGLAND SOUTH	S th winds, increasing to a gale and subsequently veering; squally and rainy to fair.	WARNINGS	

The south coast was hoisted yesterday in districts 0, 1, 6, 10 and this morning in districts 2, 3 and 5. An asterisk is inserted against those districts in which the signals are not flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.90	39	35	SE 6	0	4	Holyhead ...	29.75	41	40	SSW 3	60	2
Sumburgh Head ...	29.67	38	37	SSW 3	0	4	Valencia ...	29.84	47	45	SE 5	0	4
Stornoway ...	29.57	40	39	S 5	e	5	Scilly ...	29.74	49	48	S 6	0	4
Aberdeen ...	29.70	32	31	WSW 1	m	1	Dungeness ...	29.85	39	37	WSW 2	6	2
Shields ...	29.76	34	33	W 1	m	2	London ...	29.87	37	36	W 2	cm	*
Ardrossan ...	29.70	34	32	ESE 1	0	1	Yarmouth ...	29.82	35	34	W 2	ogf	3
Malin Head ...	29.54	38	37	S 4	0	3	Jersey ...	29.91	46	43	SW 1	6	1
Mullaghmore ...	29.45	43	41	SE 4	2	3	Rocheport ...	30.01	50	47	W 1	6	2
Belmullet ...	29.50	41	41	SE 4	0	*							

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

Yesterday morning's reports showed a decided increase of pressure over nearly the whole of Europe. In Russia and Finland the readings exceeded 30.5 ins., while over Spain they were as high as 30.0 ins. The depression recently observed over the British Isles was filling up, but a new one was evidently approaching the western coasts, where the winds had become S. and were inclined to freshen. At the European stations the wind was very light and variable. The weather was fair and cold in the northern central parts, but in the east it was cloudy, with local showers, and the thermometer showed some tendency to rise. Temperature varied from a little above 50° over the SE. parts of the Mediterranean, and from between 40° and 45° in the west of France and south-west of our Islands to a little below the freezing point over Central Europe, and to several degrees below in Russia and Finland. The highest individual values were 50° at Algiers, 48° at Fiume and Corunna, 46° at Palermo, and 45° at Rochefort and Scilly; the lowest -14° F at Archangel, +15° at Moscow, 16° at Kuopio, and Uleaborg, 21° at St. Petersburg and Leonimundi, 19° at Berlin, 22° at Belfort, and 29° at Ardrossan.

During the day and night the S. winds in the west extended eastwards, and blew hard in the west and north, with a great deal of rain in many 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 Wednesday 12th 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 ..	30.35	23	SE	4	0		30.13	-.36	28	28	+ 10	S	6	0	*	?	14	0.12	
Hernösand ..	30.26	23	S	6	5		30.17	-.24	32	32	- 1	S	6	0	*	34	28	0.04	
Stockholm ..	30.34	33	SE	2	5		30.22	-.02	33	32	0	SSW	2	0	*	34	32	0.04	
Wisby ..	30.23	32	S	4	0		30.34	+ .07	32	32	- 1	SSW	4	0	*	34	30	-	
Bodö ..	29.99	33	ENE	2	0		29.80	-.28	33	29	0	E	4	0	2	36	28	-	
Christiansund...	29.78	37	ESE	4	0		29.76	-.18	42	36	+ 6	SW	4	0	2	43	36	-	
Skudesnaes ..	29.86	40	SE	9	0		30.02	+ .06	41	40	+ 3	SE	6	0	6	41	37	-	
Christiania Fjord (Færd)	30.18	36	SSE	4	0		30.19	+ .07	36	35	+ 2	SSE	6	0	4	36	34	-	
Skagen (The Scaw)	30.20	33	SSW	4	0		30.19	+ .06	33	32	+ 1	SW	4	0	3	34	32	-	
Fanö ..	30.18	28	SSE	4	0		30.20	+ .05	27	27	+ 1	SSE	4	0	*	30	25	-	
BRITISH ISLANDS.																			
Sumburgh Head	29.31	43	SW	6	r		29.81	+ .35	37	36	- 6	W	4	0	4	43	34	0.32	
Stornoway ..	29.40	39	W	5	by		29.91	+ .90	37	36	- 9	SW	5	chg	4	46	33	0.27	
Wick ..	29.41	40	W	4	0		29.99	+ .74	34	32	- 7	W	3	bc	2	42	32	0.03	
Nairn ..	29.45	40	SW	1	0		29.95	+ .78	35	34	- 6	SW	3	0	1	45	32	0.02	
Aberdeen...	29.51	39	W	1	0		30.06	+ .59	34	32	- 6	WSW	1	0	2	42	34	0.30	
Leith ..	29.60	41	SW	3	0		30.11	+ .81	37	35	- 4	W	2	0	*	44	36	0.04	
Shields ..	29.64	38	S	3	0		30.16	+ .61	37	35	- 1	SW	2	0	4	40	35	0.02	
Spurn Head ..	29.75	37	SSE	7	0		30.21	+ .44	37	36	0	NNW	3	0	3	38	27	0.12	
York ..	29.70	38	SSW	4	r		30.23	+ .56	32	32	- 3	W	1	0	*	38	31	0.04	
Loughborough	29.73	39	SSE	6	0		30.24	+ .53	34	33	- 2	W	1	0	*	39	23	0.03	
Ardrossan ..	29.63	42	WNW	5	0		30.13	+ .91	40	39	- 2	W	4	0	3	45	29	0.13	
Malin Head ..	29.63	40	WSW	3	bp		30.13	+ .96	38	36	- 6	SW	3	0	3	44	34	0.08	
Mullaghmore ..	29.74	41	WSW	6	chg		30.17	+ .97	36	34	- 9	SSW	3	0	3	45	36	0.03	
Belmullet ..	29.76	39	WSW	6	0		30.20	+ .89	40	39	- 3	WSW	4	0	*	43	36	0.10	
Donaghadee ..	29.71	40	WNW	3	0		30.21	+ .98	32	32	- 16	W	3	0	1	48	30	0.08	
Barrow-in-Furness	29.68	41	NW	4	r		30.24	+ .77	37	37	- 1	NW	2	0	*	42	35	0.24	
Liverpool (Bidston)	29.74	42	W	3	r		30.24	+ .74	36	35	- 3	W	2	0	3	42	36	0.28	
Holyhead ..	29.76	42	NW	4	0		30.24	+ .87	39	38	- 6	NW	3	0	2	48	38	0.43	
Parsonstown ..	29.83	35	Z	0	0		30.27	+ .92	30	30	- 14	Z	0	0	*	44	30	0.68	
Valencia ..	29.89	40	NW	2	0		30.31	+ .85	37	36	- 7	NNE	1	0	1	47	34	0.06	
Roche's Point...	29.83	42	NW	3	0		30.29	+ .95	36	34	- 10	NW	2	0	3	49	32	0.01	
Pembroke ..	29.81	44	NNW	4	0		30.27	+ .81	39	37	- 9	NE	1	0	3	49	39	0.17	
Scilly ..	29.79	48	N	6	0		30.26	+ .73	46	42	- 5	N	4	0	5	52	45	0.08	
Prawle Point ..	29.78	50	N	6	m		30.24	+ .54	39	38	- 8	N	2	0	3	50	37	0.14	
Jersey ..	29.90	42	SSE	4	0		30.16	+ .30	44	44	+ 6	N	4	0	4	45	37	0.08	
Hurst Castle ..	29.86	44	S	6	0		30.24	+ .36	40	39	- 1	NNE	4	0	3	46	38	0.24	
Dungeness ..	29.94	39	S	6	r		30.12	+ .16	42	42	+ 6	SSW	2	0	2	43	36	0.26	
London ..	29.93	39	S	5	0		30.21	+ .31	39	38	+ 2	NW	2	0	*	41	37	0.09	
Oxford ..	29.86	39	S	5	r		30.24	+ .44	36	35	- 1	N	1	0	*	39	36	0.17	
Cambridge ..	29.88	37	S	2	0		30.23	+ .37	36	36	0	N	1	0	*	38	34	0.15	
Yarmouth ..	29.92	38	SSW	6	0		30.16	+ .21	38	37	+ 2	NNW	2	0	3	38	35	0.09	
Cuxhaven ..	30.21	28	SSE	2	0		30.25	+ .12	25	25	- 5	S	3	0	*	30	23	-	
Berlin ..	30.30	28	ESE	1	0		30.24	+ .10	28	27	+ 1	ESE	2	0	*	28	21	-	
Wiesbaden ..	*	*	*	*	*		30.29	+ .10	28	27	+ 11	E	1	0	*	28	?	-	
Munich ..	30.15	24	E	2	f		30.25	+ .15	22	22	- 3	NW	3	0	*	28	23	-	
FRANCE & NETHERLANDS.																			
The Helder ..	*	*	*	*	*		30.21	+ .08	24	32	+ 4	S	1	0	*	34	30	-	
Brussels ..	*	*	*	*	*		30.21	+ .08	24	32	+ 4	S	1	0	*	34	30	-	
Cape Gris Nez...	*	*	*	*	*		30.21	+ .08	24	32	+ 4	S	1	0	*	34	30	-	
Paris ..	30.18	22	SE	3	0		30.22	+ .10	30	31	0	S	4	0	*	36	32	-	
Brest ..	29.99	31	SSW	5	f		30.18	+ .14	46	43	- 4	NE	4	0	?	?	?	0.12	
Lorient ..	29.93	31	SSW	5	r		30.13	+ .24	46	46	- 3	NE	5	0	5	52	45	0.67	
Rochefort ..	30.09	42	SSE	5	0		30.22	+ .15	37	36	+ 2	SSE	5	0	2	45	28	-	
Belfort ..	30.11	29	S	1	m		30.24	+ .16	22	21	- 1	S	1	0	*	30	20	-	
Lyons ..	30.21	27	E	1	0		30.32	+ .19	24	24	- 5	SSE	1	0	*	33	24	-	
Nice ..	30.20	46	E	1	0		30.24	+ .34	42	40	+ 1	E	4	0	1	48	39	-	
Perpignan ..	30.09	38	Z	0	0		30.24	+ .27	32	31	+ 9	SW	1	0	*	55	27	-	
Biarritz ..	30.02	49	ESE	5	0		30.17	+ .15	41	38	+ 1	SSW	4	0	2	55	36	-	
Corunna ..	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ..	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Wednesday, 12th January, 1887.

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.

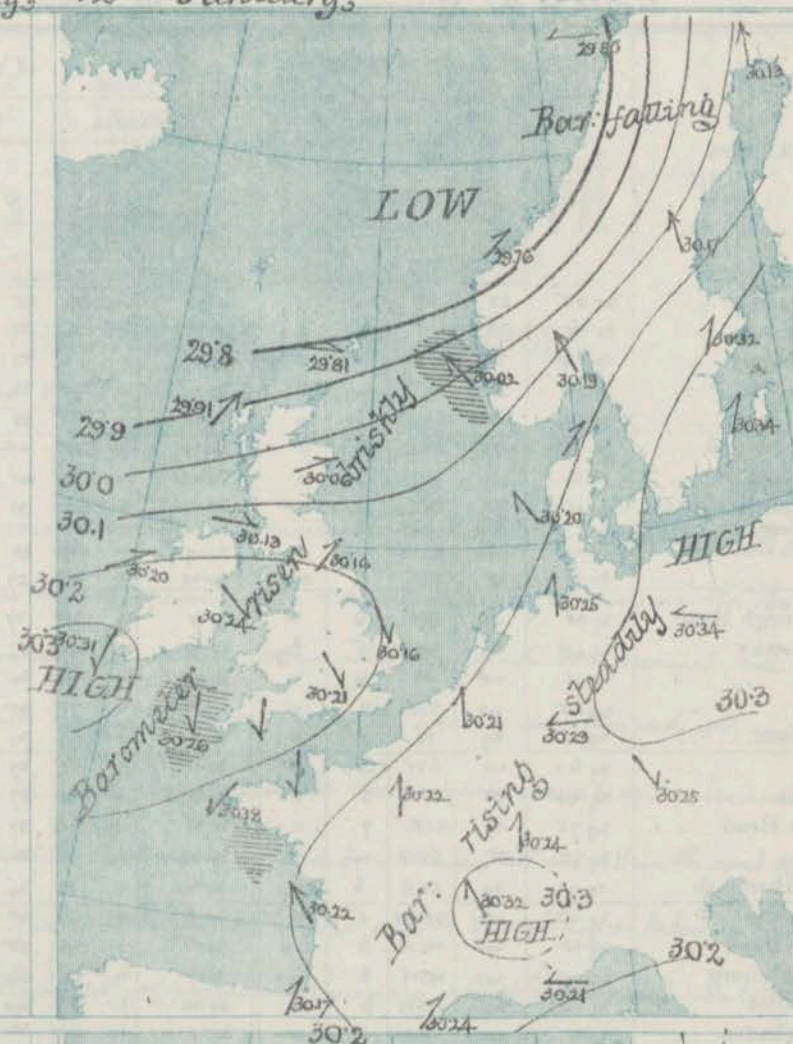
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.657
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.876
Liverpool	29.908
Valencia	29.852
Roshe's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.984



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.

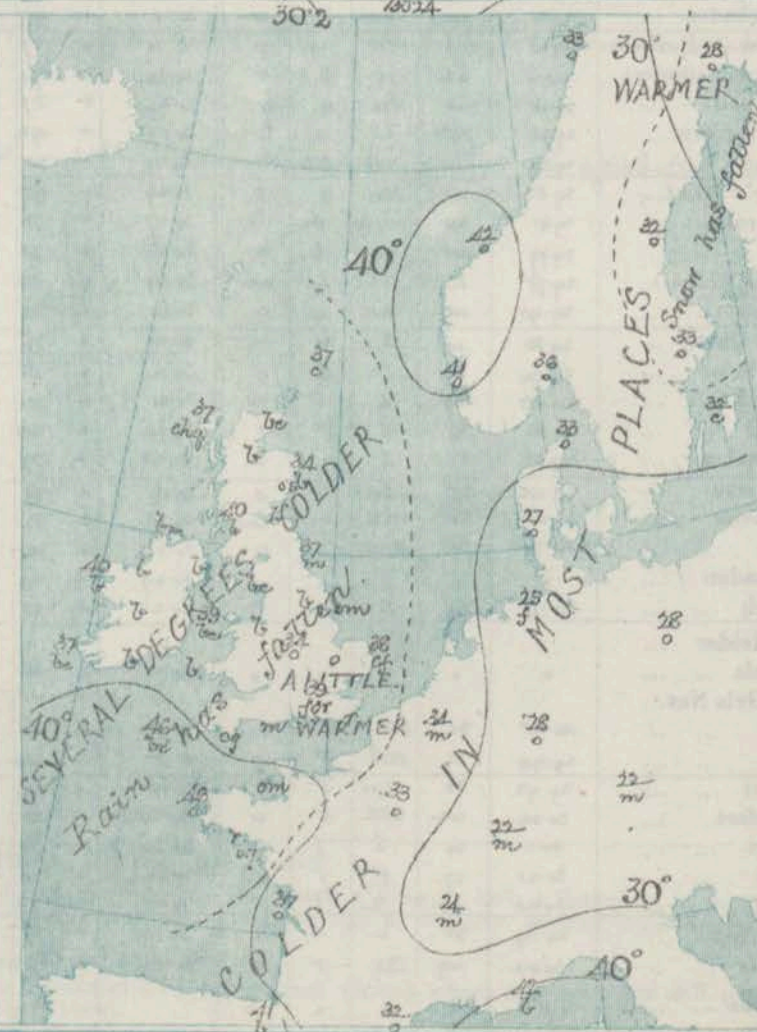
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	48.0	35.4	39.2	38.8	3.68
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.8	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	45.6	33.5	38.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roshe's Point	47.8	39.9	43.1	42.0	5.83
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	45.0	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.8	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and upwards in an anticyclone lying over the Baltic and North Germany and also in a second high-pressure system which is advancing over the south of Scotland.
Lowest, 29.8 in. and less in a large area lying to the westward of Norway.
(A band of relatively low-pressure extends from the North Sea across the Netherlands and north of France to the Bay of Biscay.)

TEMPERATURE

Highest, 46° at Lillie, Brest and Lorient and 44° at Jersey.
Lowest, 27° at Munich and Belfort, 24° at Lyons, 25° at Haparanda and 30° at Larnaca.
(A general fall is in progress over our islands.)

WIND

Moderate SWly on our northern and north-western coasts and moderate to strong SEly on the eastern shores of the North Sea.
Light to moderate from N or NE over the south of our islands and north of France.
Sly over Central and South-western France, variable in Germany.

WEATHER

Fine in all the more western and northern parts of the United Kingdom.
Bull at our south-eastern and the Continental stations, with rain in London and at Birmmgham and Lorient.
(Rain fell yesterday over the whole of our islands, as well as in the northern parts of Scandinavia and France.)

SEA

Rather rough at Lillie, Musselmas and Lorient, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression whose centre lay off the north-west of Scotland yesterday has travelled away to the northward of our islands, while the subsidiary disturbances noticed over our western coasts have moved eastwards and dispersed. A brisk rise of the barometer has, therefore, taken place at all but the Scandinavian stations, and in the course of the past night an anticyclone has advanced from the westward over Ireland and England.

The new anticyclone seems likely to extend further eastwards and eventually to become merged in the other high-pressure system lying over the Baltic. A temporary renewal of frosty weather is therefore probable over our islands, with fog at many of the inland stations.

FORECASTS

For the 24 hours ending at NOON on 13th January 1887.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

SWly and Wly winds, fresh; fair generally, but some showers.

SWly to NWly winds, light; fair generally, frost at night.

----- D° ----- D°

Same as No. 5.

Same as No. 5.

NW and NE winds, light; fair generally, colder, frost at night some fog.

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

Wly and NWly winds, light; fair, cold, local fogs.

----- D° ----- D°

Same as No. 5.

SWly winds, light or moderate; fair generally.

Variable breezes, finally Sly; fair generally.

The S. cone was lowered last evening in districts 2, 3, and 5 and this morning in districts 0, 1, and 6 to 10.

WARNINGS

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.93	41	38	SSE	8	0	5	Holyhead ...	29.53	44	44	WNW	6	rmg	5
Sumburgh Head ...	29.27	41	40	SSE	8	1	4	Valencia ...	29.72	45	41	WNW	4	bc	4
Stornoway ...	29.21	41	41	W	5	rg	5	Scilly ...	29.59	42	32	WNW	5	od	6
Aberdeen ...	29.35	41	40	SSE	8	rg	8	Dungeness ...	29.93	39	38	S	6	0	6
Shields ...	29.51	38	37	S	7	0	4	London ...	29.87	40	38	SE	5	0	*
Ardrossan ...	29.42	45	41	WNW	4	0	3	Yarmouth ...	29.92	37	36	S	6	cg	4
Malin Head ...	29.41	42	39	WNW	3	0	4	Jersey ...	29.87	39	39	SSE	5	0	5
Mullaghmore ...	29.54	42	39	WNW	7	ohrp	6	Rocheport ...	30.06	42	41	SE	5	0	2
Belmullet ...	29.59	43	39	WNW	4	bc	*								

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 upwards over North Russia, and from 30.1 ins and upwards over Spain to 29.0 ins off the Hebrides, to which neighbourhood a rather deep depression had advanced from the Atlantic. Thus while light SE^{ly} breezes and fair cold weather prevailed over Eastern and Central Europe, the wind in the west had shifted to the Srd, with a rise of the thermometer and blew hard in some places, with rain. In the south of Ireland, however, another shift of wind, S to NW, had already taken place, and the thermometer was inclined to fall again. Temperature varied from a little above 50° in Portugal and at the mouth of the English Channel, and from a little below 50° over South-eastern Europe to several degrees below the freezing point over nearly all inland parts of the Continent. The highest individual readings were 54° at Lisbon and Oporto, 53° at Brindisi, 51° at Scilly and 50° at Brest; the lowest -20° F at Archangel, ~~20°~~ at Moscow, 15° at Kiel, 17° at Wiesbaden, 18° at Haparanda and Uleaborg, 22° at Besançon and 23° at Belfast.

Later in the day the depression in the north-west moved northwards and a subsidiary disturbance in the south of England began to fill up. The barometer, therefore, rose fast in the west and a new high-pressure area began to advance over our islands from the westward.

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).

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DAILY WEATHER REPORT.

for Thursday 13th January 1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. H. 36011, 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 ..	29.98	31	S	2	0	29.99	-14	24	24	-4	N	2	b	*	32	23	-	
Hernösand ...	30.16	31	SSW	2	0	30.25	+08	19	19	-13	Z	0	b	*	34	?	-	
Stockholm ...	30.45	32	W	2	0	30.41	+09	30	29	-3	SW	2	0	*	34	?	-	
Wisby ...	30.39	32	S	4	0	30.41	+07	31	30	-1	WSW	4	0	*	36	30	-	
Bodo ...	29.78	31	SW	6	h	29.80	-00	39	36	+6	SSE	4	0	2	?	?	0.16	
Christiansund...	30.02	41	SW	6	0	29.93	+17	42	37	0	SW	3	0	4	?	36	-	
Skudesnaes ...	30.28	41	W	2	b	30.28	+26	40	39	-1	SSE	6	0	5	43	?	-	
Christiania Fjord (Fæder)	30.31	36	S	4	0	30.33	+14	31	30	-5	WSW	4	0	2	36	27	-	
Skagen (The Scaw)	30.34	32	SW	2	0	30.40	+21	32	31	-1	SSW	2	0	1	34	30	-	
Fanø ...	30.41	29	SSE	2	0	30.46	+26	27	27	0	SSE	2	0	*	?	27	0.08	
Sumburgh Head	30.03	40	W	4	b	29.86	+05	42	40	+5	SSW	5	N	5	43	37	0.09	
Stornoway ...	30.03	42	SSW	5	bcp	29.80	-11	46	45	+9	SSW	7	NW	6	46	35	0.18	
Wick ...	30.11	38	S	2	b	29.92	-07	42	40	+8	SW	5	OU	2	43	34	-	
Nairn ...	30.14	37	WSW	1	b	30.00	+05	42	40	+7	SW	2	C	1	42	34	0.01	
Aberdeen...	30.24	35	SSW	3	b	30.13	+07	38	35	+4	SSW	6	CW	3	38	31	-	
Leith ...	30.29	38	W	1	b	30.21	+10	41	38	+4	WSW	4	C	*	41	35	-	
Shields ...	30.36	38	W	1	bm	30.33	+17	34	32	-3	W	3	C	2	39	28	-	
Spurn Head ...	30.38	36	N	2	b	30.40	+19	38	32	-14	W	1	bm	2	38	30	-	
York ...	30.40	38	W	1	b	30.42	+19	23	23	-9	Z	0	f	*	40	21	-	
Loughborough	30.41	32	W	2	b	30.43	+21	17	17	-17	Z	0	f	*	44	17	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.28	42	WSW	4	b	30.20	+07	43	42	+3	S	5	0	4	43	38	-	
Malin Head ...	30.20	38	SSW	3	b	30.02	-11	41	40	+3	SSW	4	om	3	41	35	-	
Mullaghmore ...	30.25	41	SSW	5	b	30.12	-05	43	41	+7	SSW	6	ogm	6	44	34	-	
Belmullet ...	30.22	44	SW	6	b	30.10	-10	47	44	+7	WSW	7	NW	*	47	26	0.10	
Donaghadee ...	30.34	35	WSW	2	b	30.26	+05	38	37	+6	SW	5	b	3	40	31	-	
Barrow-in-Furness	30.37	37	E	2	b	30.35	+14	31	31	-6	SE	3	b	*	41	30	-	
Liverpool (Bidston)	30.41	38	W	1	b	30.39	+15	28	26	-8	SSE	2	b	3	41	27	-	
Holyhead ...	30.41	38	SSW	1	b	30.35	+11	40	39	+1	SSE	4	CW	2	45	36	-	
Parsonstown ...	30.36	34	Z	0	b	30.29	+02	39	38	+9	SSW	2	C	*	40	29	-	
Valencia ...	30.37	45	SSW	3	C	30.28	-03	48	47	+11	S	6	og	5	48	35	-	
Roche's Point...	30.39	40	W	1	b	30.34	+05	45	43	+9	SW	4	C	4	50	33	-	
Pembroke ...	30.42	37	NW	2	b	30.40	+13	41	39	+2	S	3	b	2	44	34	0.01	
Scilly ...	30.40	45	N	3	b	30.40	+14	41	39	-5	Z	0	C	5	47	38	0.01	
Prawle Point ...	30.41	37	NNE	1	b	30.43	+19	33	31	-6	NNE	2	b	2	48	31	-	
Jersey ...	30.31	43	NNE	3	om	30.36	+20	41	40	-3	NNE	3	bm	3	44	40	0.03	
Hurst Castle ...	30.38	37	NNE	3	m	30.43	+22	30	30	-10	NNE	4	f	1	44	29	-	
Dungeness ...	30.29	40	NNE	4	b	30.35	+23	37	37	-6	N	4	m	3	43	34	0.34	
London ...	30.38	39	NE	1	0	30.43	+22	32	32	-7	Z	0	f	*	41	32	-	
Oxford ...	30.43	33	NW	1	b	30.45	+21	28	28	-8	Z	0	f	*	40	23	-	
Cambridge ...	30.39	33	N	1	b	30.45	+22	30	30	-6	Z	0	m	*	38	25	-	
Yarmouth ...	30.33	39	N	2	cm	30.41	+25	35	34	-3	NNE	1	b	3	42	33	0.01	
Cuxhaven ...	30.33	27	SSE	1	f	30.41	+16	29	28	+4	ESE	3	f	*	?	?	-	
Berlin ...	30.38	28	S	1	0	30.45	+11	26	25	-2	E	1	0	*	28	25	-	
Wiesbaden ...	*	*	*	*	*	30.38	+09	26	25	-2	E	2	0	*	30	25	-	
Munich ...	30.29	23	S	1	0	30.30	+05	19	19	-3	E	3	m	*	27	19	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.33	33	S	1	b	30.40	+14	33	33	-2	E	1	f	2	36	32	0.24	
Brussels ...	*	*	*	*	*	30.35	+14	32	32	-2	SE	1	f	*	38	?	0.08	
Cape Gris Nez...	30.26	42	NE	5	0	30.33	+10	35	34	-1	SSE	3	m	2	43	34	0.20	
Paris ...	30.28	?	SE	3	?	30.32	+10	32	32	-1	NE	1	0	*	37	?	0.28	
Brest ...	30.37	42	NE	4	b	30.38	+20	38	36	-8	NE	4	b	4	50	34	-	
Lorient ...	30.32	44	E	3	0	30.36	+23	42	41	-4	N	4	0	4	54	39	0.22	
Rochefort ...	30.26	46	SSE	4	0	30.24	+02	41	40	+4	E	5	0	2	48	36	0.29	
Belfort ...	30.26	26	S	1	b	30.25	+01	25	25	+3	E	1	0	*	30	17	-	
Lyons ...	30.36	23	N	1	f	230.34	+02	32	32	+8	N	1	f	*	?	22	-	
Nice ...	30.19	44	E	3	b	30.16	-05	40	39	-2	E	3	b	2	52	37	-	
Perpignan ...	30.25	36	Z	0	b	30.20	-04	29	29	-3	Z	0	0	*	47	29	-	
Biarritz ...	30.22	50	Z	0	b	30.17	-00	50	48	+9	NW	5	0	2	55	?	0.16	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.21	+09	48	45	+1	N	4	b	2	57	46	-	
Lisbon ...	30.20	54	NNE	7	b	30.21	+09	48	45	+1	N	4	b	2	57	46	-	

† Received too late for insertion in chart.

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on *Thursday, 13th January, 1887*

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.

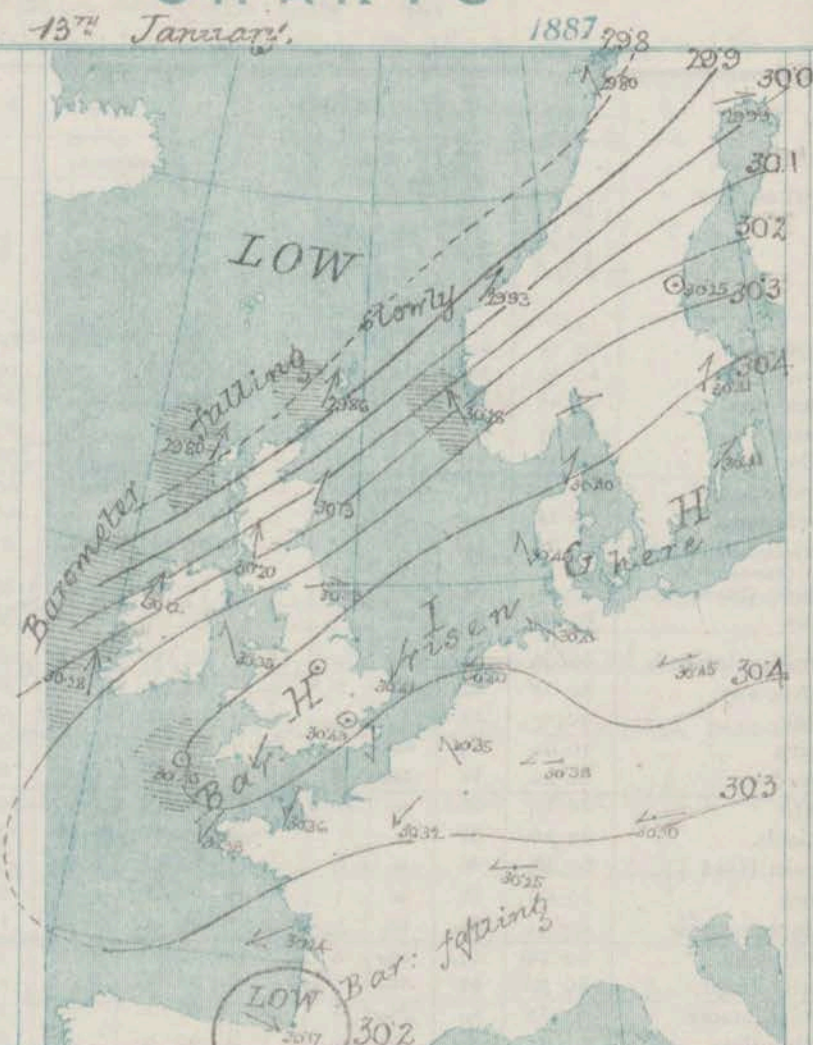
Sea Disturbance — where considerable is shown thus

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.681
Stornoway	29.657
Wick	29.647
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Roche's Point	29.883
Pembroke	29.919
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.975
Cambridge	29.975
Yarmouth	29.964



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.

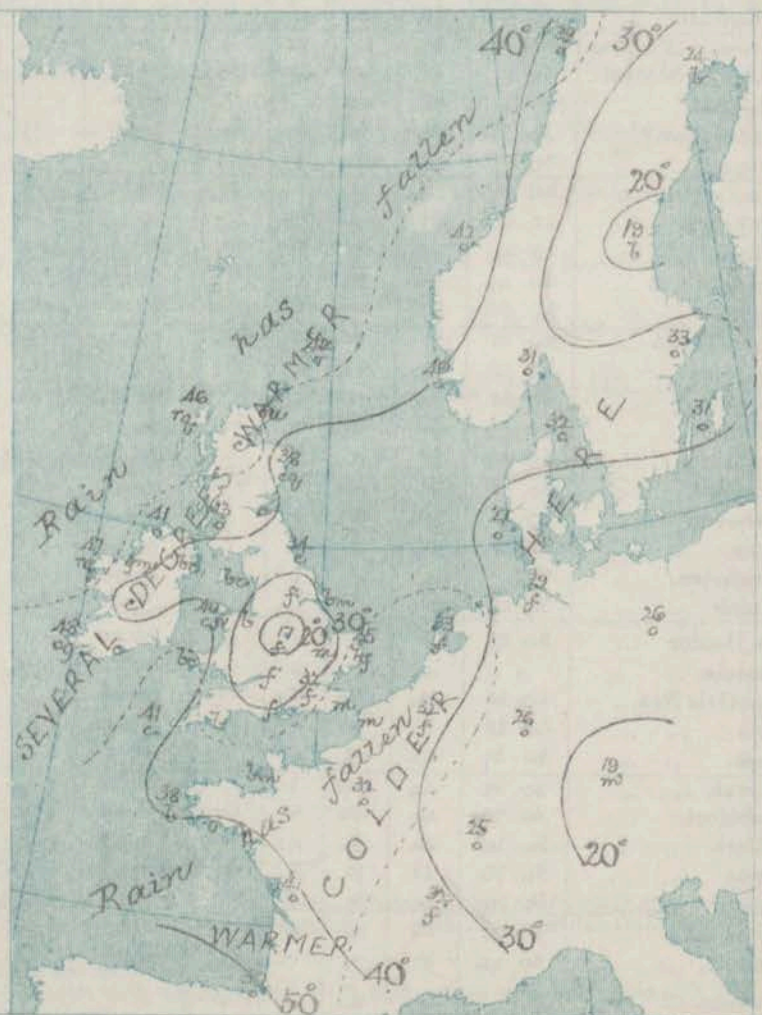
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.89
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards in a long anticyclonic band extending from the Baltic to the SW of England.
Lowest, 29.8 ins. and less in an area lying to the N^W and NW^W of the British Isles.

TEMPERATURE

Highest, 50° at Biarritz, 48° at Valencia and Lisbon, 47° at Belmullet and 46° at Hornsby.
Lowest, 17° at Loughborough, 19° at Hemsland and Munich, 23° at York and 24° at Haparanda.
Hard frost was experienced last night over Central England.

WIND

Light E³ in Germany, moderate NE³ or N³ over the Channel and west of France.
S or SW elsewhere, strong in force on our northern and extreme western coasts.

WEATHER

Foggy over Central and SE^W England, as well as in the Netherlands.
Raining on our extreme northern and northwestern coasts; fair or fine elsewhere.
A lunar halo was seen last night at Aberdeen.

SEA

Rough at Hornsby and Mullaghmore, and rather rough at Lumbagh Hd., Valencia and Scilly, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed over our Islands yesterday has joined the high pressure area previously existing over the Baltic, but the portion of the system which lies over England is inclined to disperse.

On our western and northern coasts the barometer is falling somewhat decidedly, and a depression is apparently stirring the north-west of Scotland. This disturbance is probably the first of a series, and the barometric fall, the S³ winds and the mild unsettled weather now reported in the west are likely to extend gradually over the whole of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 14TH JANUARY 1887.

DISTRICTS.

FORECASTS.

* 0	SCOTLAND NORTH	S ³ and SW ³ strong winds or gales; squally some rain.
* 1	SCOTLAND EAST	----- D° ----- D° ----- D° -----
2	ENGLAND N.E.	W ³ to S ³ winds, freshening; fair to unsettled and some rain.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	Variable breezes, finally S ³ ; foggy to fair.

DISTRICTS.

FORECASTS.

* 6	SCOTLAND WEST	Same as N° 0
7	ENGLAND N.W.	SE ³ and S ³ winds, increasing in force; fair to cloudy and some rain.
8	ENGLAND S.W.	----- D° ----- D° ----- D° -----
* 9	IRELAND NORTH	Same as N° 0
* 10	IRELAND SOUTH	Same as N° 0

WARNINGS

The south cone was hoisted last evening in districts 0, 1, 2, 3, and 10. An asterisk is inserted against those districts in which the signals are not flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.15	43	40	SSW 4	e	6	Holyhead ...	30.36	41	39	WNW 2	6	2
Sunburgh Head ...	29.99	39	37	W 4	n	4	Valencia ...	30.37	47	42	SW 3	6c	3
Stornoway ...	30.04	40	39	SSW 4	b/p	3	Scilly ...	30.34	47	44	N 3	e	4
Aberdeen ...	30.19	37	34	SSW 2	b	2	Dungeness ...	30.24	40	40	WNW 4	n	2
Shields ...	30.29	38	36	SW 2	b/m	4	London ...	30.32	41	38	N 2	om	*
Ardrossan ...	30.26	43	42	WSW 4	b	3	Yarmouth ...	30.24	42	41	N 3	e	3
Malin Head ...	30.20	41	39	SW 3	b	3	Jersey ...	30.25	44	43	WNW 3	0	3
Mullaghmore ...	30.25	43	39	SSW 4	b	2	Rochefort ...	30.27	44	41	SSW 4	0	2
Belmullet ...	30.26	44	41	SW 3	bc	*							

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

The Continental Reports for yesterday have not yet 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.

SCANDINAVIA.

BRITISH ISLANDS.

GERMANY.

FRANCE & NETHERLANDS.

FLANDERS.

DAILY WEATHER REPORT.

for Friday 14th January 1887.

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

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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ..	29.84	32	SW	6	0	29.69	-.30	31	31	+ 7	SE	6	0	*	32	21	0.20	
Hernösand ...	30.04	31	SSW	4	0	29.95	-.30	33	31	+ 4	SSW	2	0	*	?	14	-	
Stockholm ...	30.35	29	WSW	4	0	30.27	-.14	28	24	- 2	WSW	4	0	*	32	28	-	
Wisby ...	30.39	33	WSW	4	0	30.31	-.10	32	31	+ 1	W	4	0	*	36	?	-	
Bodö ...	29.51	41	SW	6	4	29.41	-.39	41	38	+ 2	SW	8	bc	4	41	36	0.2	
Christiansund...	29.74	43	SW	6	0	29.77	-.16	40	37	- 2	WSW	8	C	5	43	37	0.12	
Skudesnaes ...	30.15	42	SSE	8	0	30.16	-.12	40	38	0	WNW	2	C	5	?	39	0.32	
Christiania Fjord (Fierder)	30.28	36	WSW	6	0	30.20	-.13	35	34	+ 4	SSW	8	0	4	36	34	-	
Skagen (The Scaw)	30.35	30	WSW	4	0	30.30	-.10	28	24	- 4	W	4	0	2	32	27	-	
Fanö ...	30.38	27	SSE	4	0	30.36	-.10	26	26	- 1	SEA	4	m	*	28	24	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.86	44	WSW	4	C	30.05	+19	41	39	- 1	W	4	bc	4	45	38	0.13	
Stornoway ...	30.01	40	WSW	4	bc	30.23	+43	37	37	- 9	WSW	3	cg	2	46	35	0.17	
Wick ...	29.99	40	W	2	bc	30.22	+30	39	37	- 3	WNW	4	c	1	42	36	-	
Nairn ...	30.03	41	WSW	2	0	30.32	+32	40	37	- 2	N	2	b	1	43	35	0.03	
Aberdeen...	30.08	39	SSW	2	0	30.27	+13	34	32	- 4	WSW	1	b	1	40	32	0.01	
Leith ...	30.14	42	WSW	4	0	30.31	+10	37	36	- 4	W	1	bc	*	44	35	0.01	
Shields ...	30.22	39	S	1	m	30.31	-.02	35	34	+ 1	W	1	bc	2	40	32	0.22	
Spurn Head ...	30.33	32	S	2	C	30.36	-.14	35	34	+ 2	WSW	2	fgd	2	38	30	0.01	
York ...	30.32	32	SE	1	0	30.31	-.11	31	31	+ 8	S	1	f	*	33	22	0.03	
Loughborough	30.36	27	SE	1	f	30.30	-.15	30	30	+13	SSE	1	odm	*	30	17	-	
GERMANY.																		
Ardrossan ...	30.16	43	SW	3	0	30.32	+12	37	37	- 6	Z	0	bc	0	43	35	0.16	
Malin Head ...	30.16	44	W	2	m	30.35	+33	42	42	+ 1	WNW	1	om	2	44	39	-	
Mullaghmore ...	30.22	42	WSW	2	m	30.37	+25	38	37	- 5	WNW	1	b	7	45	35	0.06	
Belmullet ...	30.25	44	WNW	3	0	30.40	+30	39	38	- 3	SSW	1	b	*	47	35	0.07	
Donaghadee ...	30.22	41	WSW	3	4	30.35	+09	36	36	- 2	WNW	4	b	2	42	34	0.15	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.26	37	SE	3	0	30.33	-.02	33	33	+ 2	HE	1	fd	*	37	30	0.24	
Liverpool (Bidston)	30.29	36	SSE	1	0	30.34	-.05	35	35	+ 7	WNW	1	f	2	38	28	0.17	
Holyhead ...	30.28	45	SW	4	0	30.34	-.01	43	42	+ 3	WHE	2	bc	2	45	40	0.21	
Parsonstown ...	30.26	44	Z	0	0	30.43	+14	27	27	-12	Z	0	f	*	45	27	-	
Valencia ...	30.29	46	N	2	0	30.40	+12	38	37	-10	ENE	1	C	2	49	36	0.26	
Roche's Point...	30.30	42	SW	4	nm	30.35	+01	37	35	- 8	N	3	bc	2	48	35	0.08	
Pembroke ...	30.32	45	SW	2	bc	30.28	-.12	41	41	0	WHE	3	nm	2	46	40	0.23	
Seilly ...	30.36	45	W	2	C	30.24	-.16	45	44	+ 4	SSW	1	n	6	50	40	0.06	
Prawle Point ...	30.38	41	WHE	1	bc	30.31	-.12	38	36	+ 5	N	1	C	2	46	31	-	
Jersey ...	30.34	39	WHE	2	b	30.28	-.08	38	37	- 3	HE	1	bc	1	44	37	-	
Hurst Castle ...	30.38	30	HE	1	f	30.31	-.12	30	30	0	HE	1	m	1	40	26	-	
Dungeness ...	30.33	36	WHE	3	0	30.26	-.09	30	30	- 7	N	2	m	1	38	27	-	
London ...	30.39	32	Z	0	0	30.30	-.13	29	28	- 3	Z	0	fg	*	35	29	-	
Oxford ...	30.38	27	Z	0	0	30.31	-.14	29	28	+ 1	SW	1	0	*	29	23	-	
Cambridge ...	30.39	37	Z	0	m	30.32	-.13	30	30	0	Z	0	0	*	33	27	-	
Yarmouth ...	30.36	37	Z	0	C	30.29	-.12	32	31	- 3	N	1	bc	2	39	26	-	
Cuxhaven ...	30.42	28	ESE	2	f	30.38	-.03	27	27	- 2	SE	2	0	*	?	25	-	
Berlin ...	30.41	28	E	1	0	30.38	-.07	27	26	+ 1	ENE	1	0	*	28	?	-	
Wiesbaden ...	*	*	*	*	*	30.24	-.04	20	19	- 6	ENE	3	0	*	28	18	-	
Munich ...																		
FRANCE & NETHERLANDS.																		
The Helder ...																		
Brussels ...																		
Cape Gris Nez...	*	*	*	*	*	30.28	-.07	31	31	- 1	ENE	1	f	*	34	29	-	
Paris ...	30.33	37	ESE	1	m	30.25	-.08	38	37	+ 3	WHE	4	0	3	39	34	-	
Brest ...	30.33	33	HE	3	0	30.26	-.06	31	31	- 1	SE	1	0	*	35	31	-	
Lorient ...	30.35	41	HE	3	0	30.30	-.08	38	35	0	ESE	3	0	5	46	36	-	
Rochefort ...	30.34	43	HE	4	bc	30.28	-.08	38	37	- 4	HE	4	0	4	45	37	-	
Belfort ...	30.28	41	HE	4	b	30.25	+01	36	34	- 5	HE	5	0	2	48	30	-	
Lyons ...	30.23	25	E	1	0	30.16	-.09	22	22	- 3	N	1	m	*	26	21	-	
Nice ...	30.32	24	N	1	f	30.27	-.07	19	19	-13	W	1	m	*	?	19	-	
Perpignan ...																		
Biarritz ...	30.17	40	Z	0	0	30.08	-.12	39	37	+10	W	3	b	*	53	?	-	
Corunna ...	30.21	51	W	5	0	30.21	+04	48	46	- 2	WSW	3	0	2	52	43	-	
Lisbon ...	*	*	*	*	*	30.10	-.11	46	41	- 2	WNW	5	b	2	59	43	-	

For Explanation of Columns, see p. 1.

WEATHER CHARTS

for 8 a.m. on Friday, 14th January, 1887.

BAROMETER, WIND & SEA.

(Explanation of Map)

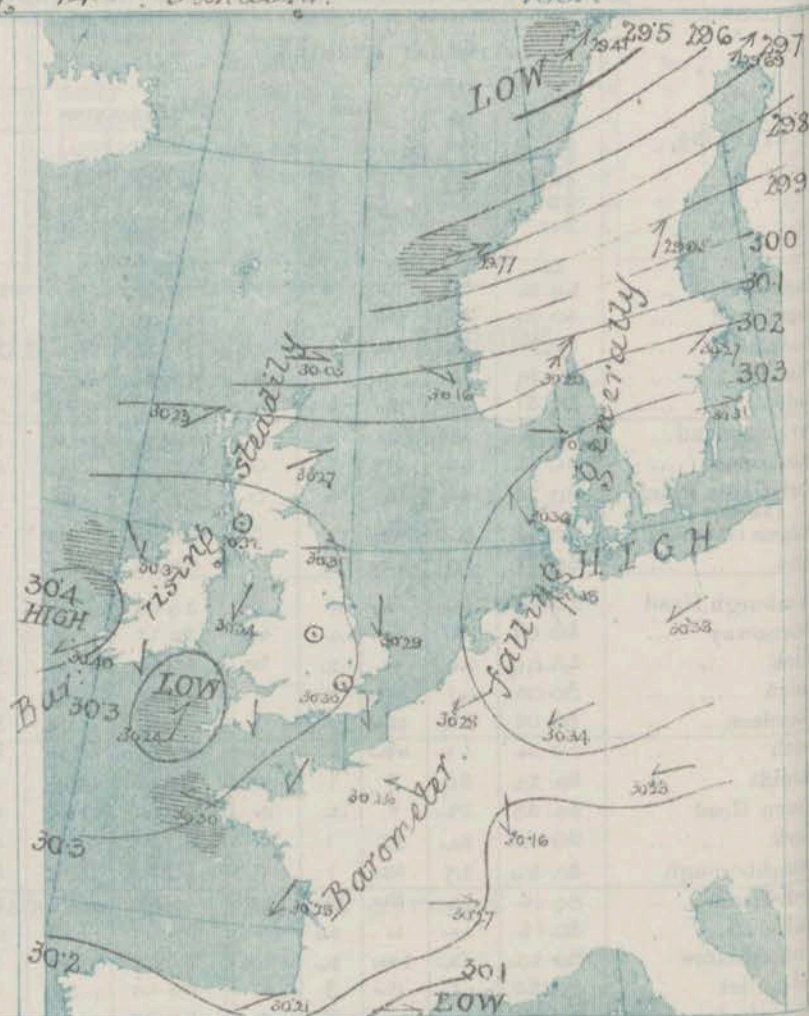
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — forces above 10, — forces 8 to 10,
 — forces 5 to 7, — forces 1 to 4,
 — dead 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.829
Holyhead	29.875
Liverpool	29.903
Valencia	29.862
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.976
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	2.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.1	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.8	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.11 ins: off the west of Ireland, but relatively high 30.3 ins: and upwards in anticyclonic systems lying respectively over England and Ireland, and over the Baltic, Denmark, and North Germany.
Lowest, 29.5 ins: and less in a depression lying over the north of Norway.
A small area of relatively low pressure is found near the mouth of the Bristol Channel in the interior of one of the anticyclonic systems.

TEMPERATURE

Highest, 48° at Biarritz, 45° at Liabon, and 45° at Seilly.
Lowest, 19° at Munich and Lyons, 20° at Wiesbaden, 22° at Belfast, 27° at Larnacstown and 28° at Oxford and in London.

WIND

Light or moderate from the W. in Scotland, strong to a gale from SW in Scandinavia.
Light from E. in Germany, and from NE over the Channel and north of France.

WEATHER

Fine over the western and northern parts of the United Kingdom and also in the south of France.
Cloudy or overcast elsewhere, with rain in the southwest of England, and fog at most of our Central, N. and E. stations.
Rain fell yesterday in the west and north generally.

SEA

Light or smooth generally, but a heavy ground sea reported at Mullaghmore and Seilly.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was skirting our extreme NW. coast yesterday has travelled away in a north-easterly direction, and in its rear a high-pressure system has advanced over our Islands from the westward.

The new anticyclone will probably extend eastwards, but as a small area of relatively low pressure has appeared at the mouth of the Bristol Channel (in the interior of the high pressure system) rain is likely in many parts of England.

FORECASTS

For the 24 hours ending at NOON on 15th January 1887.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

W^{ly} winds, moderate or fresh; cloudy, local showers.

1 SCOTLAND
EAST

N^{ly} winds, light, fair generally, but local fogs.

2 ENGLAND
N. E.

Light breezes, chiefly N^{ly}; dull, foggy, some rain.

3 ENGLAND
EAST

.....D.....D.....D.....

4 MIDLAND
COUNTIES

.....D.....D.....D.....

5 ENGLAND
SOUTH

N^{ly} or NE^{ly} winds, light, dull, foggy, some rain.

6 SCOTLAND
WEST

Same as N^o 1.

7 ENGLAND
N. W.

NW^{ly} winds, light, fair generally, but local fogs.

8 ENGLAND
S. W.

NE^{ly} winds, light, dull and foggy to fair.

9 IRELAND
NORTH

NW^{ly} winds, shifting to SW. or S; fair generally.

10 IRELAND
SOUTH

.....D.....D.....D.....

WARNINGS

The S. Cone was lowered last evening in Districts 0, 1, 6, 9 and 10.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeanaes ...							Holyhead ...	30.31	44	42	SW 4	eq	3
Sumburgh Head ...	29.82	43	42	SSW 6	n	6	Valencia ...	30.24	49	49	SW 5	rm	5
Stornoway ...	29.94	43	42	SW 4	eq	4	Scilly ...	30.36	47	44	SSW 1	c	4
Aberdeen ...	30.06	39	37	SSW 5	eq	3	Dungeness ...	30.32	38	38	W 3	o	3
Shields ...	30.26	37	34	S 3	c	2	London ...	30.39	35	34	NE 1	eq	*
Ardrossan ...	30.13	43	43	S 7	n	5	Yarmouth ...	30.38	38	37	NE 2	bc	2
Malin Head ...	30.11	43	42	SW 2	o	3	Jersey ...	30.34	43	41	NE 3	bc	3
Mullaghmore ...							Rochefort ...	30.27	44	42	NE 5	c	2
Belmullet ...	30.18	46	45	W 4	o	*							

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

The Continental Reports for yesterday have not arrived

Remarks for 24 hours ended 8 a.m. Jan'y 13th

The reports for Wednesday (12th) showed that at 8 a.m. on that day pressure was high over all but the extreme northwest of Europe, the readings ranging from 30.9 ins. and upwards over Central Russia, and from 30.3 ins. over the south of Ireland to 29.8 ins. over the Shetlands and west of Norway. The winds were consequently very light and variable except in the extreme northwest, where they were somewhat strong from the SW². The weather was, as a rule, fair, but foggy in many places, and a little rain prevailed locally over the Straits of Dover, and near the mouth of the Loire. Temperature ranged from somewhat above 50° in Iceland and the northwest of Spain and south of Italy to several degrees the freezing point over Central Europe and Russia. The highest individual readings were 54° at Lornum and Oporto, 52° at Brindisi and Algiers, and 46° at Scilly and Brest; the lowest 1° at Archangel, 5° at Moscow, 15° at Kien, 16° at Petersburg and Kiew, 19° at Hague, 21° at Cassel, 22° at Belfort and Munich, 24° at Lyons and 30° at Paderborn.

During the succeeding day and night the SW wind in the NW spread slightly, but in the other regions no important change occurred.

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 15th January 1887.

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

Issued by the Meteorological Office, 11b, Victoria Street, London, W. 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 ...	29.59	29	SW	4	c	29.65	-0.04	31	30	0	SW	4	0	*	34	27	-
Hernösand ...	30.03	32	NW	4	b	30.13	+0.10	33	30	0	SW	2	c	*	36	27	-
Stockholm ...	30.29	30	WSW	2	0	30.38	+0.09	32	31	+0.01	W	2	0	*	?	28	-
Wishby ...	30.32	30	W	4	0	30.41	+0.09	32	31	0	W	4	bc	*	36	30	-
Bodö ...	29.52	29	WSW	8	0	29.66	+0.05	32	30	+0.02	WSW	8	0	4	?	34	0.02
Christiansund...	30.04	41	WSW	8	0	30.07	+0.03	43	40	+0.03	WSW	9	c	4	43	39	0.20
Skudesnaes ...	30.36	38	W	0	bc	30.42	+0.06	34	34	-0.06	WSW	1	f	4	43	?	-
Christiania Fjord (Færder)	30.30	36	SW	6	bc	30.38	+0.08	33	33	-0.02	WSW	2	b	2	36	?	-
Skagen (The Scaw)	30.36	31	W	4	0	30.42	+0.06	32	32	+0.04	WSW	2	0	1	32	27	-
Fanö ...	30.44	26	SSE	2	0	30.50	+0.06	26	25	0	SE	2	0	*	27	25	-
BRITISH ISLANDS.																	
Sumburgh Head	30.21	44	W	3	c	30.27	+0.06	43	41	+0.02	WSW	3	0	3	45	39	0.01
Stornoway ...	30.30	41	SSW	3	cq	30.28	+0.02	42	40	+0.02	SSW	3	0	3	43	36	-
Wick ...	30.30	38	W	1	b	30.34	+0.04	36	35	-0.01	SSW	2	c	1	41	33	-
Nairn ...	30.34	37	W	0	bc	30.34	+0.00	33	32	-0.01	W	0	c	0	43	32	-
Aberdeen...	30.37	34	WSW	1	b	30.39	+0.02	25	24	-0.01	WSW	1	b	1	38	24	-
Leith ...	30.42	38	W	1	m	30.41	+0.01	27	27	-0.04	W	0	f	*	44	28	-
Shields ...	30.40	38	N	1	bc	30.41	+0.01	35	35	0	W	0	m	2	42	30	-
Spurn Head ...	30.35	41	NNE	3	bc	30.38	+0.03	36	34	+0.02	E	5	cq	4	41	33	0.02
York ...	30.39	32	N	1	b	30.40	+0.01	35	35	+0.04	E	1	0	*	38	26	-
Loughborough	30.35	36	NNE	2	0	30.36	+0.01	33	32	+0.01	E	4	0	*	36	30	0.05
Ardrossan ...	30.42	36	W	0	b	30.38	+0.04	31	30	-0.01	E	2	0	1	41	27	-
Malin Head ...	30.39	39	SSW	2	b	30.30	-0.09	32	32	-0.02	SSE	2	0	3	43	32	-
Mullaghmore ...	30.43	37	W	0	bc	30.31	-0.12	33	33	-0.02	E	5	f	3	49	31	-
Belmullet ...	30.43	39	SSE	2	b	30.27	-0.16	34	34	-0.07	SE	1	0	*	45	33	-
Donaghadee ...	30.43	37	NE	3	b	30.36	+0.07	40	38	+0.02	E	3	0	1	44	30	0.01
GERMANY.																	
Barrow-in-Furness	30.40	34	NE	2	b	30.36	+0.04	34	34	+0.01	NE	1	c	*	36	29	-
Liverpool (Bidston)	30.40	31	W	0	c	30.34	-0.06	36	35	-0.01	E	2	0	3	36	29	-
Holyhead ...	30.41	38	NE	1	b	30.32	-0.09	37	37	-0.04	E	3	0	2	44	34	-
Parsonstown...	30.44	32	W	0	f	30.32	-0.12	28	28	-0.06	W	0	0	*	39	25	-
Valencia ...	30.41	40	NE	2	b	30.21	-0.20	42	40	+0.02	E	3	0	4	46	33	-
FRANCE & NETHERLANDS.																	
Roche's Point...	30.37	39	NE	3	b	30.22	-0.15	39	37	+0.02	NE	2	0	3	45	34	-
Pembroke ...	30.33	41	NE	2	bc	30.25	-0.08	39	37	-0.02	E	4	0	2	44	37	-
Scilly ...	30.25	44	NE	4	A	30.14	-0.11	42	40	-0.02	E	5	0	6	45	40	0.29
Prawle Point ...	30.29	40	E	4	0	30.19	-0.10	36	34	-0.02	E	5	0	4	42	34	0.03
Jersey ...	30.24	40	NE	2	om	30.14	-0.10	33	32	-0.01	E	4	0	3	43	32	-
Hurst Castle ...	30.31	35	NE	2	f	30.24	-0.07	34	33	+0.01	E	5	0	1	37	30	-
Dungeness ...	30.26	36	NNE	2	f	30.24	-0.02	30	29	0	E	5	c	2	38	29	-
London ...	30.32	33	NE	1	f	30.29	-0.03	33	30	+0.03	SE	2	0	*	37	28	-
Oxford ...	30.36	34	NNE	1	0	30.32	+0.04	30	28	+0.02	NE	5	0	*	34	28	-
Cambridge ...	30.35	33	W	0	m	30.35	+0.00	32	30	+0.02	E	1	0	*	34	28	-
Yarmouth ...	30.33	36	E	2	c	30.35	+0.02	31	30	-0.01	E	5	cq	4	36	30	-
Cuxhaven ...	30.41	26	ESE	2	0	30.45	+0.04	28	27	+0.01	E	2	0	*	30	26	-
Berlin ...	30.40	28	E	4	0	30.45	+0.05	17	17	-0.08	NE	1	0	*	30	16	-
Wiesbaden ...	*	*	*	*	*	30.27	-0.07	30	29	+0.01	NE	3	0	*	30	?	-
Munich ...	30.23	12	E	3	b	30.16	-0.07	19	19	0	SE	5	0	*	19	7	0.04
NETHERLANDS.																	
The Helder ...	30.38	26	E	3	0	30.41	+0.03	27	26	-0.01	E	4	0	3	27	23	-
Brussels ...	*	*	*	*	*	30.28	-0.10	26	25	-0.03	E	3	f	*	32	21	-
Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Paris ...	30.25	31	NE	3	0	30.22	-0.03	23	22	-0.01	E	4	0	*	33	32	-
Brest ...	30.24	40	NE	3	m	30.11	-0.13	36	34	-0.02	E	5	0	5	45	34	-
Lorient ...	30.23	42	E	5	0	30.09	-0.14	24	32	-0.07	E	4	0	2	45	32	-
Rochefort ...	30.19	37	NE	5	m	30.09	-0.10	32	30	-0.02	E	7	0	2	45	27	-
Belfort ...	30.17	19	N	1	0	30.10	-0.07	12	12	-0.08	N	3	0	*	23	11	-
Lyons ...	30.21	23	NNE	3	m	30.19	-0.02	19	18	-0.01	NE	3	0	*	25	19	-
Nice ...	29.92	42	E	1	bc	29.94	+0.02	38	33	+0.05	E	3	0	4	50	36	0.04
Perpignan ...	29.96	49	NE	5	b	30.01	-0.07	40	38	+0.02	NE	1	0	*	34	39	-
Biarritz ...	30.12	46	N	3	0	30.00	-0.12	43	41	-0.02	ESE	3	0	5	50	41	-
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.03	48	NW	5	b	30.02	-0.01	43	42	-0.01	W	0	0	5	54	41	-

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Saturday, 15th January, 1887.

BAROMETER, WIND & SEA.

(Explanation of Map)

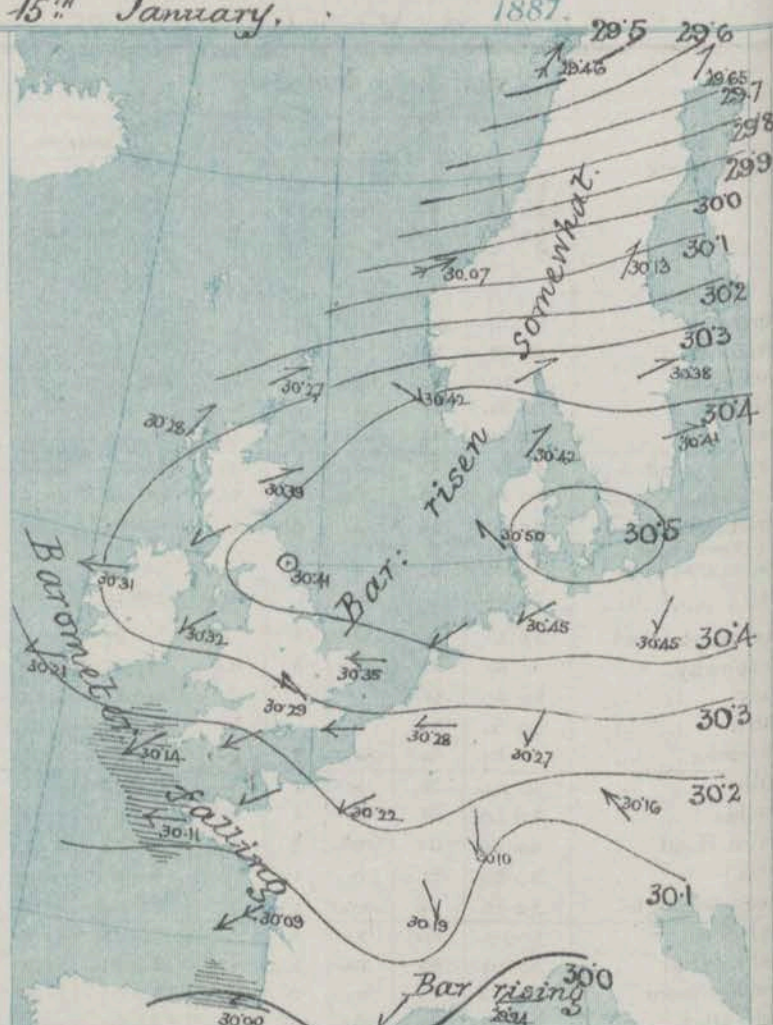
Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—
 * → = forces above 10; — → = forces 8 to 10;
 — → = forces 5 to 7; — → = forces 1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

Sea Disturbance—where considerable is shown, thus
 [Symbol] = Rough. [Symbol] = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sunburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.917
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.971
Cambridge	29.975
Yarmouth	29.964



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

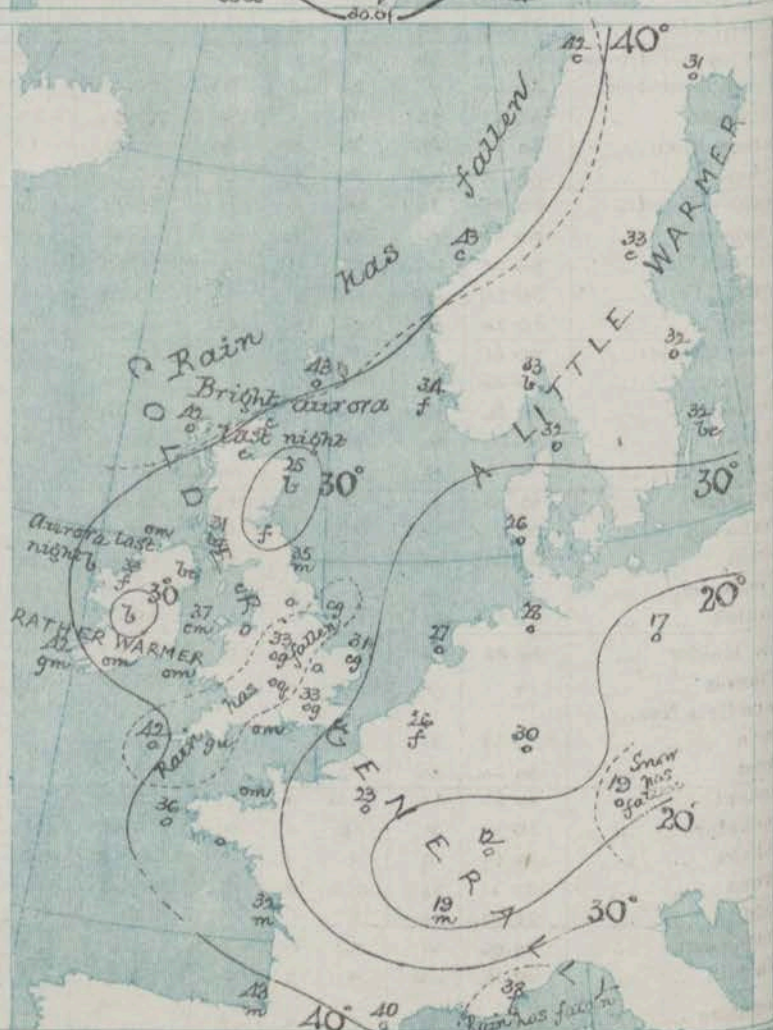
Temperature—Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather—is shown by Letters of the Beaufort Scale.
Rainfall—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	36.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.88
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	30.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.0	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.5 ins: over Central Denmark, but relatively high 30 ins: and upwards over the Baltic, North Germany and the North Sea.
Lowest, 29.5 ins: and less, over the north of Norway, but relatively low 30.0 ins: and less in the extreme south of France.

TEMPERATURE

Highest, 43° at Christiansund, Lumburgh Head, Biarritz and Lisbon.
Lowest 12° at Belfort, 17° at Berlin, 19° at Munich and Lyons, 23° at Paris and 25° at Aberdeen.
Frost occurred last night at most stations.

WIND

SW⁷ in Scandinavia and the north of Scotland, with gulls at Boals and Christianaund.
E⁷ in nearly all ^{the} parts of Western Europe; fresh in force over the Channel and east of England.

WEATHER

Thin in many parts of Scandinavia, Scotland and Ireland, as well as at Nice.
Dull elsewhere, with mist or fog in many places.
Bright aurora was seen last night in the N. of Scotland, faint aurora at Mullaghmore, and a luminous halo at Antromant.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT.

The new anticyclonic system which was approaching our extreme western coasts yesterday has moved eastwards across the country, its central area being now found over Denmark. The barometer has consequently risen in Scandinavia, Denmark and the East of Great Britain, but elsewhere it has fallen somewhat.

There is at present no sign of the advance of any important depression, but as the barometric fall on our southwest coast is somewhat decided, an increase of wind from the E.² is probable over England and Ireland.

FORECASTS

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

1887.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ^{ly} or S ^{ly} winds, light, fair generally.
1	SCOTLAND EAST	Variable breezes, finally SE ^{ly} ; fair, cold, local fogs.
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	E ^{ly} winds, increasing in force, cloudy generally, with local mists, Colder.

6	SCOTLAND WEST	E ^{ty} Winds, light or moderate; fair generally, but some fog.
7	ENGLAND N. W.	E ^{ty} Winds, freshening; fair generally.
8	ENGLAND S. W.	E ^{ty} Winds, increasing in force; dull, misty, perhaps some rain.
9	IRELAND NORTH	E ^{ty} and SE ^{ty} winds, freshening; cloudy, some rain.
10	IRELAND SOUTH	Do. Do. Do.
WARNINGS		NONE ISSUED

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Malin Head ...	30.25	43	40	W 2	c	5	Holyhead ...	30.38	43	42	NE 3	b	2
St. Mary's Head ...	30.16	43	40	W 3	b	4	Valencia ...	30.39	46	44	NE 3	bm	3
St. Mary's Head ...	30.28	43	41	SSW 3	p	2	Scilly ...	30.25	45	43	SE 1	n	1
Anglesea ...	30.34	38	35	W 1	b	1	Dungeness ...	30.26	38	37	NE 2	m	1
Silfield ...	30.37	42	40	W 1	b	2	London ...	30.31	37	35	NE 1	f	*
Ardrossan ...	30.37	41	40	W 0	b	0	Yarmouth ...	30.30	34	33	W 0	bm	2
Malin Head ...	30.37	43	43	SW 2	o	3	Jersey ...	30.24	42	40	NE 2	c	2
Mullaghmore ...	30.41	43	41	W 1	bm	4	Rocheport ...	30.22	38	36	NE 5	m	2
Belmullet ...	30.43	45	43	SSW 3	b	*							

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

The reports for yesterday morning showed that a broad band of high pressure still lay over nearly the whole of Europe, the only decided gradients being those for W winds over Scandinavia and Lapland. Readings at 8 a.m. varied from 30.71 in. over Central Russia and from 30.4 in. over Ireland to somewhat below 29.5 in. over the extreme northern parts of Scandinavia, and to about 29.9 in. over France and the south of Italy. Thus, while light and variable E'airs prevailed over most parts of the Continent, there was a SW gale over the northern half of Sweden and Norway, and light NE to NW winds over the Mediterranean. The weather was fair and foggy in many places but showers were recorded in several localities, chiefly in the east and northwest. Temperature remained low at the Central and northern Continental stations, but showed a tendency to rise in the south. It varied from a little above 50° over the SE-part of the Mediterranean and from 45° or 46° on the coast of Portugal and at Seville, to several degrees below the freezing point over the Baltic and Central Europe, and to many degrees below over Russia. The highest individual values were 52° at Malta and Brindisi, 48° at Biarritz, 47° at Genoa, 46° at Lisbon and 45° at Seville. At Lancelotti (Madeira) the thermometer had further risen to 63°. The lowest readings were at Moscow, 6° at Charkov, 13° at Nicolaief, 17° at Astrakhan, 19° at Carlsruhe and Lyons, 20° at Berlin and Copenhagen, 25° at Stockholm and the Sound and 29° at Oxford.

During the succeeding 24 hours pressure recovered in the NW., but began to give way over the southern and southwestern parts of Europe and the E' wind freshened in those regions.

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 16TH 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.		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 ..	29.56	26	SW	4	b	30.04	+ .39	28	26	- 3	WNW	2	b	*	29	23	—		
Hernösand ..	30.08	36	SSW	2	b	30.27	+ .14	34	30	+ 1	Z	0	b	*	33	28	—		
Stockholm ..	30.36	36	WNW	4	o	30.32	- .06	32	31	0	W	4	o	*	34	32	—		
Wisby ..	30.29	31	W	4	o	30.34	- .07	32	32	0	W	4	bv	*	34	28	—		
Bodö ..	29.87	41	WSW	8	o	30.07	+ .61	40	39	- 2	SW	4	o	2	45	37	—		
Christiansund...	30.26	42	SW	4	r	30.25	+ .18	35	33	- 8	Z	0	b	5	45	30	0.14		
Skudesnaes ..	30.28	37	Z	0	o	30.21	- .11	36	34	+ 2	S	Y	c	4	29	34	—		
Christiania Fjord (Fjorder)	30.28	31	WSW	2	bv	30.42	+ .04	29	29	- 4	NNW	2	f	2	34	25	—		
Skagen (The Scaw)	30.40	30	W	2	b	30.40	- .02	29	28	- 3	SSW	2	bv	1	34	25	—		
Fanö ..	30.35	24	ENE	4	b	30.29	- .21	19	19	- 7	E	4	b	*	28	14	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.25	40	S	1	c	30.04	- .23	40	37	- 3	SSE	4	o	4	44	38	0.02		
Stornoway ..	30.15	39	SSW	4	b	29.84	- .44	35	33	- 7	S	5	bv	5	43	33	—		
Wick ..	30.21	38	S	3	b	29.98	- .36	38	35	+ 2	S	Y	ow	4	44	34	—		
Nairn ..	30.22	32	Z	0	bv	29.98	- .36	33	31	0	Z	0	bv	1	40	28	—		
Aberdeen...	30.26	37	S	4	o	30.03	- .26	37	33	+ 12	S	4	og	2	39	24	0.01		
Leith ..	30.29	35	W	1	f	30.04	- .37	33	32	+ 6	SE	1	o	*	36	26	—		
Shields ..	30.26	38	ESE	4	o	30.04	- .37	33	32	- 2	S	3	o	3	29	32	0.02		
Spurn Head ..	30.24	34	ESE	5	c	30.06	- .32	32	31	- 4	SE	4	cg	3	37	30	—		
York ..	30.27	33	SE	1	o	30.08	- .32	29	29	- 6	S	1	o	*	26	28	—		
Loughborough	30.23	30	ESE	3	o	30.05	- .31	28	27	- 5	NE	2	og	*	30	27	—		
Ardrossan ..	30.21	34	ENE	2	bv	30.00	- .38	33	32	+ 2	ESE	3	o	2	35	29	—		
Malin Head ..	30.09	37	SE	3	om	29.80	- .50	33	33	+ 1	SSE	4	om	3	39	32	—		
Mullaghmore ..	30.07	38	E	5	om	29.79	- .52	35	33	+ 2	SSE	Y	omg	5	44	32	—		
Belmullet ..	30.02	37	ESE	5	c	29.87	- .46	36	36	+ 2	SW	2	o	*	38	34	0.23		
Donaghadee ..	30.19	38	SSW	6	bv	29.97	- .39	34	32	- 6	SSW	5	c	3	40	33	—		
GERMANY.																			
Barrow-in-Furness	30.24	34	SE	5	o	30.05	- .31	29	28	- 5	SE	4	o	*	37	28	—		
Liverpool (Bidston)	30.18	31	E	5	o	30.05	- .29	27	26	- 9	ESE	2	o	3	36	27	—		
Holyhead ..	30.15	32	E	5	bv	30.01	- .31	30	30	- 7	E	2	om	2	39	30	—		
Parsonstown ..	30.08	36	SE	1	o	29.88	- .44	34	32	+ 6	SE	2	c	*	37	27	0.13		
Valencia ..	29.98	41	ESE	4	c	29.86	- .35	43	40	+ 1	NNW	5	cg	4	46	40	0.31		
Roche's Point...	30.03	39	SE	5	o	29.86	- .36	44	43	+ 5	SSW	5	o	4	44	38	—		
Pembroke ..	30.10	33	ESE	5	c	29.96	- .29	33	31	- 6	E	4	om	2	39	31	—		
Scilly ..	29.97	40	ENE	6	o	29.90	- .24	40	37	- 2	ESE	4	bv	4	42	37	0.01		
Prawle Point ..	30.04	34	ENE	6	o	29.96	- .23	32	31	- 4	NNW	1	og	3	37	31	—		
Jersey ..	30.02	27	E	4	om	29.96	- .18	26	25	- 7	E	3	om	3	33	25	—		
Hurst Castle ..	30.11	30	E	6	o	29.99	- .25	31	31	- 3	ENE	2	om	4	35	30	—		
Dungeness ..	30.12	20	ESE	6	o	29.96	- .28	31	31	+ 1	SE	2	o	1	33	28	—		
London ..	30.17	32	E	5	o	30.03	- .26	29	29	+ 4	NNW	1	f	*	33	29	—		
Oxford ..	30.16	30	E	4	o	30.04	- .28	29	28	- 1	E	1	og	*	31	28	—		
Cambridge ..	30.24	30	E	1	o	30.05	- .20	30	30	- 2	E	1	o	*	33	28	—		
Yarmouth ..	30.24	30	E	1	o	30.05	- .20	30	30	- 2	E	1	o	*	33	28	—		
FRANCE & NETHERLANDS.																			
Cuxhaven ..	30.22	30	E	6	o	30.06	- .29	30	29	- 1	ESE	4	bv	4	32	28	—		
Berlin ..	30.41	43	E	3	o	30.26	- .19	23	23	- 5	ESE	5	b	*	?	14	—		
Wiesbaden ..	30.43	12	E	3	b	30.28	- .17	7	6	- 10	E	2	b	*	28	5	*		
Munich ..	*	*	*	*	*	30.02	- .25	18	17	- 12	NE	4	b	*	?	?	—		
The Helder ..	30.03	10	E	3	b	29.91	- .25	14	?	- 5	SW	1	o	*	24	10	—		
PORTUGAL.																			
Brussels ..	30.26	23	E	3	o	30.12	- .29	18	18	- 9	E	3	c	2	28	18	—		
Cape Gris Nez...	*	*	*	*	*	30.02	- .26	18	18	- 8	E	3	m	*	30	17	—		
Paris ..	30.10	25	E	7	o	29.97	- .26	24	24	- 8	SE	3	c	2	28	?	—		
Brest ..	30.11	26	ENE	3	o	29.95	- .27	23	23	0	NE	1	o	*	26	23	—		
Lorient ..	29.98	24	ESE	4	s	29.92	- .19	33	33	- 3	E	3	o	5	37	32	—		
Rochefort ..	29.99	33	ENE	4	o	29.92	- .14	28	28	- 6	ENE	3	o	2	39	25	—		
Belfort ..	29.99	31	E	5	o	29.99	- .10	29	27	- 3	ENE	4	o	2	36	23	—		
Lyons ..	30.01	21	N	1	o	29.88	- .22	18	18	+ 6	NE	3	bv	*	22	11	—		
Nice ..	30.10	21	E	1	m	29.96	- .23	16	15	- 3	WSW	1	b	*	23	14	—		
Perpignan ..	29.93	40	SW	1	b	29.91	- .03	34	30	- 4	E	3	c	3	48	30	—		
Biarritz ..	29.99	40	Z	0	o	29.88	- .13	36	35	- 4	NE	3	r	*	41	36	0.12		
Corunna ..	29.92	46	NE	3	m	29.85	- .15	46	44	+ 3	W	7	o	2	46	39	0.32		
Lisbon ..	*	*	*	*	*	30.04	+ .13	50	46	+ 4	NNW	4	r	5	52	39	0.04		
	30.08	48	NW	4	o	30.15	+ .13	47	45	+ 4	Z	0	c	4	54	?	—		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Sunday

16th January

1887.

BAROMETER, WIND & SEA.

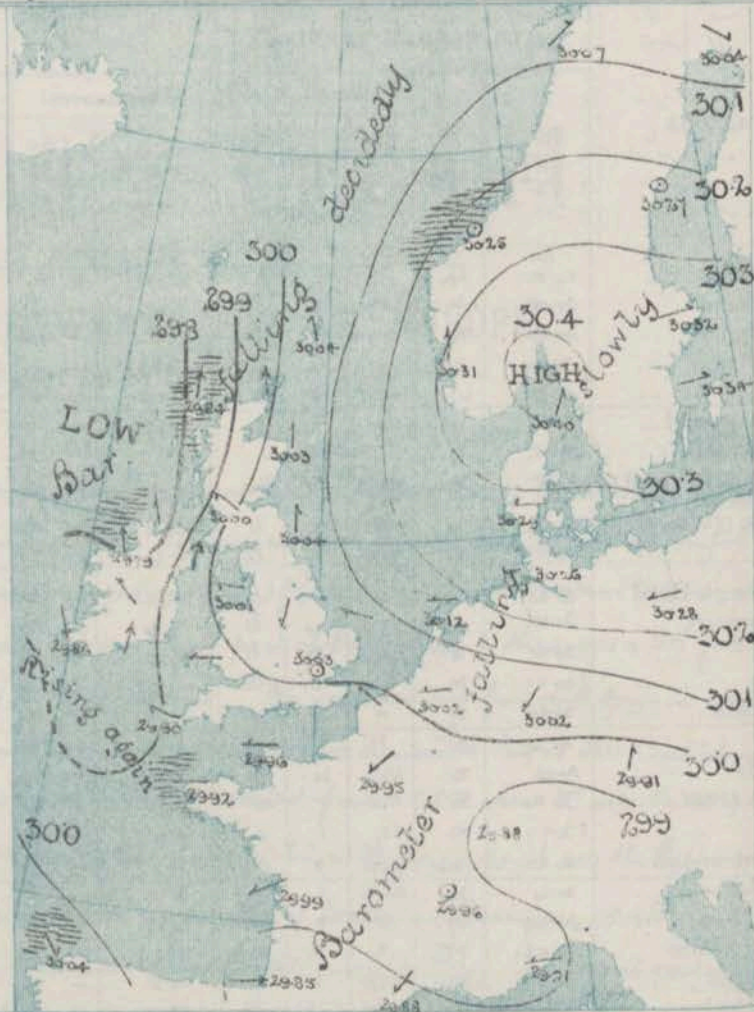
(Explanation of Map)

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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.681
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Roche's Point	29.883
Pembroke	29.913
Scilly	29.959
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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

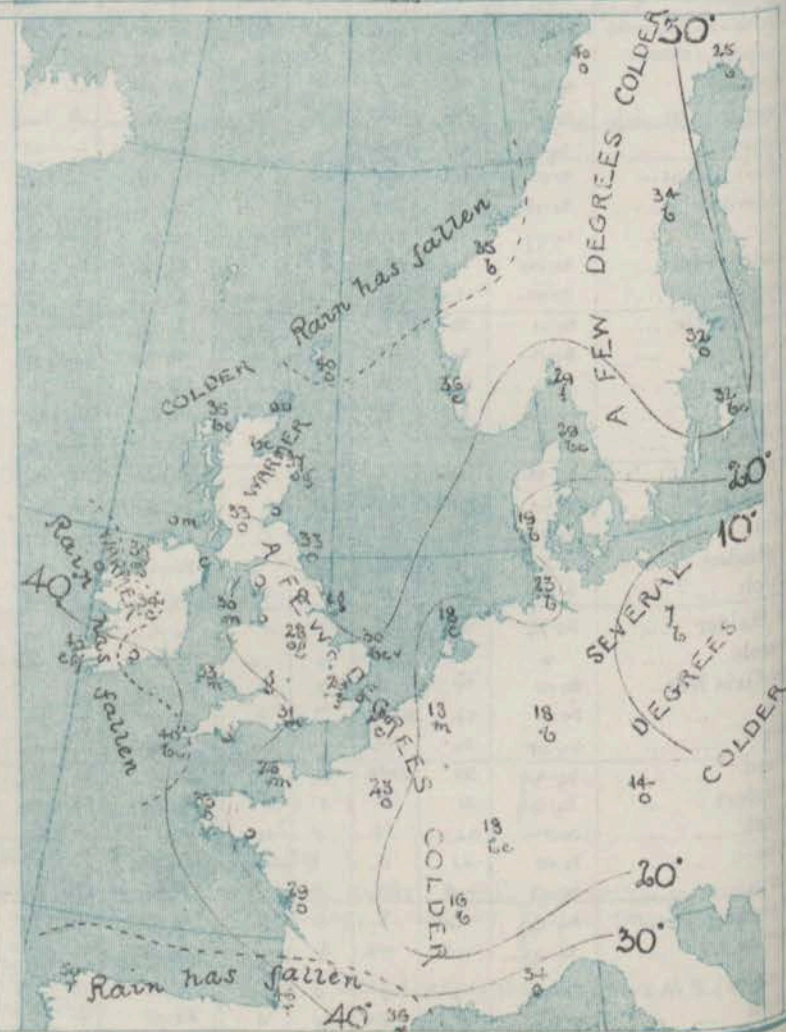
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	45.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	35.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.96
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.1	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.02
Scilly	49.3	43.6	46.5	45.0	3.53
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.4 ins. and upwards in the neighbourhood of the Skager Rack, but relatively high 30.1 ins. and upwards in Portugal.
Lowest, 29.8 ins. and less, on our extreme NW. coasts, but relatively low 29.9 ins. and less over Switzerland and the south of France.

TEMPERATURE

Highest, 50° at Cornua, 47° at Lybom, 46° at Biarritz, and 44° at Rock Point.
Lowest, 7° at Berlin, 14° at Munich, 16° at Lyons, and 18° at Hilder, Brussels and Paris; lowest in our Islands 27° at Liverpool.

WIND

Strong S³ in the north of our Islands, but moderate E in the south, as well as at most of the Continental stations.
Light W breezes in Sweden and the north of Norway.

WEATHER

Fine in Denmark, Germany and the north of Sweden.
Cloudy or overcast elsewhere, with mist in many parts of England and rain in the south of France.

SEA

Rather rough at Lornoway and Mullaghmore, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past twenty-four hours the barometer has fallen at all but the Scandinavian stations, and a large area of low pressure has advanced to our extreme northwest coasts, while a subsidiary disturbance has appeared off the south of Ireland. Conditions have, therefore, become less settled than of late.

FORECASTS

For the 24 hours ending at NOON on January 17th 1887.

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 N cone was hoisted yesterday morning in districts 3, 5, and parts of 2 and 8, and the south cone in the evening on the remainder of our coasts. An asterisk is inserted against those districts in which the signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.41	39	39	E 2	c	4	Holyhead ...	30.19	35	34	E 4	cm	3
Sumburgh Head ...	30.28	43	40	SW 1	c	3	Valencia ...	30.00	43	41	ESE 3	om	4
Stornoway ...	30.23	41	40	S 4	bc	4	Scilly ...	30.05	39	38	ENE 6	r	6
Aberdeen ...	30.22	36	34	WSW 1	bc	1	Dungeness ...	30.18	30	30	E 6	o	4
Shields ...	30.22	38	36	ESE 3	of	3	London ...	30.21	32	31	E 4	og	*
Ardrossan ...	30.27	34	30	ENE 2	c	1	Yarmouth ...	30.27	32	30	E 6	og	5
Malin Head ...	30.18	37	37	SSE 3	bc	3	Jersey ...	30.04	32	31	ENE 4	c	3
Mullaghmore ...	30.18	36	35	E 5	cm	4	Rochefort ...	30.03	34	31	ENE 5	o	2
Belmullet ...	30.15	38	37	ESE 3	bc	*							

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

The report for yesterday showed that a large anticyclonic band extended over the entire Continent from Central Russia to Ireland. The lowest pressures 29.2 in: and less were found over the north of Scandinavia, but relatively low readings 29.9 in: and less were found over the north of Scandinavia, but relatively low readings 29.9 in: and less were reported over Italy and Eastern Algeria. The wind was E³ over Southern Russia, Germany, Austria, France and the south of our islands, but W² or SW¹ over Scandinavia and northern Russia; in force it was light or moderate generally, but at Bodø and Christiansund it blew a fresh gale. The weather was dull generally, but in some parts of Russia and Austria the sky was moderately clear. Temperature had risen a little in Russia and also in Switzerland, but fallen in most other localities; readings ranged from 50° and upwards in Algeria, and 40° and upwards over the Mediterranean, the Bay of Biscay and our extreme southwest coasts to 5° or less over Central Russia. The highest individual readings were 54° at Nemours, 53° at Chan, 52° at Malta, and 51° at Algiers; the lowest 3° at Kiev, 8° at Charkow, 9° at Cracow and Lemberg, 1° at Newfahwasser, and 12° at Lwinemunde and Warsaw.

In the course of the day the barometer fell steadily over our islands, and the E³ winds increased on our south and southeast coasts. Very little change, however, was reported in the winds or weather.

Remarks on the Weather for 24 hours ended 8 am: Jan: 14th.

The Continental Report for the 13th inst: showed a continuance of the high-pressure band noticed over Europe on the previous day the 8 am readings varying from 30.5 in: and more over Western Russia, and from 30.4 in: over Germany, the Netherlands, and the southern part of England, to 29.8 in: at Stornoway and in the extreme northwest of Norway, and to rather below 30.1 in: over Italy, and the Balkan Peninsula. Thus, while variable air and light E¹ or NE¹ winds prevailed in most places, with dry but foggy weather, strong and increasing S and SW winds were reported in the extreme northwest, where the temperature was rising and rain had set in. Temperature varied from rather above 50° in the south of Italy, and from a little below that value in Portugal, the west of Ireland and the Hebrides to several degrees below the freezing point over the greater part of the Continent and to many degrees below over Russia. The highest individual readings were 55° at Malta, 48° at Lisbon and Valencia, 47° at Belmullet and 46° at Stornoway and 42° at Christiansund. At Lanchal (Madeira) the thermometer had risen to 53°. The lowest values were 6° F at Charkow, 10° at Moscow, 15° at Rague, 17° at (L. only), 19° at Munich and Hemörsand, 21° at Cassel, 23° at York, 25° at Chelfort and 28° at Oxford.

Later on the milder weather in the west spread inland, and the S winds began to increase in Norway, but the tendency towards warmer weather was not well maintained. Thick fogs prevailed over Central 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 Monday 17th 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.	
			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 ..	30.19	17	Z	0	b	30.36	+ 32	10	10	- 18	Z	0	c	*	?	?	-	
Hernösand ..	30.36	23	Z	0	b	30.40	+ 13	13	13	- 21	Z	0	b	*	39	?	-	
Stockholm ...	30.38	27	WNW	2	b	30.41	+ 09	26	25	- 6	W	2	f	*	34	?	-	
Wishby ...	30.33	33	W	2	o	30.35	+ 01	31	30	- 1	WNW	4	bc	*	36	28	-	
Bodo ...	30.22	40	WSW	4	o	30.24	+ 17	33	32	- 7	E	2	b	1	41	32	0.04	
Christiansund...	30.23	34	SE	1	b	30.13	- 12	32	28	+ 3	ESE	2	bc	4	37	28	-	
Skudesnaes ...	30.28	36	SE	6	b	30.17	- 14	34	28	- 2	SE	8	bc	5	37	?	-	
Christiania Fjord (Fjorder)	30.40	28	WNW	2	bc	30.40	- 02	27	26	- 2	WNW	4	o	1	?	25	-	
Skagen (The Scaw)	30.36	27	SE	2	b	30.32	- 08	28	27	- 1	S	3	bc	2	?	23	-	
Fano ...	30.19	17	ESE	4	b	30.22	- 07	18	18	- 1	ESE	4	b	*	23	16	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.97	38	ESE	6	c	29.74	- 30	37	34	- 3	ESE	7	o	7	40	35	-	
Stornoway ...	29.83	38	S	6	oq	29.40	- 44	37	37	+ 2	ESE	9	oq	7	38	33	0.06	
Wick ...	29.94	38	S	8	b	29.61	- 37	34	32	- 4	S	9	o	8	38	32	-	
Nairn ...	29.94	31	SW	3	c	29.67	- 31	30	29	- 3	SSW	5	c	3	37	27	-	
Aberdeen...	30.04	33	S	8	c	29.72	- 31	35	32	- 2	S	7	oq	5	37	28	-	
Leith ...	30.05	32	SE	1	o	29.78	- 26	29	29	- 4	SW	3	bc	*	33	23	-	
Shields ...	30.06	31	SW	1	o	29.94	- 10	25	25	- 8	SSW	1	m	2	33	23	-	
Spurn Head ...	30.04	32	ESE	3	bc	30.01	- 05	30	29	- 2	ESE	4	c	4	34	24	-	
York ...	30.05	39	S	1	o	29.99	- 09	20	20	- 9	N	1	b	*	31	18	0.01	
Loughborough	30.08	27	ESE	1	b	30.04	- 01	15	15	- 13	ESE	1	b	*	31	14	-	
Ardrossan ...	30.01	31	E	3	o	29.71	- 29	33	33	0	ESE	7	om	5	34	29	-	
Malin Head ...	29.87	33	ESE	3	bc	29.34	- 46	35	35	+ 2	ESE	8	oa	5	39	31	0.04	
Mullaghmore ...	29.90	37	SE	1	b	29.35	- 44	42	39	+ 7	ESE	9	oq	6	44	35	0.05	
Belmullet ...	29.87	38	ESE	4	bc	29.25	- 56	44	44	+ 8	S	9	o	*	44	35	0.09	
Donaghadee ...	29.99	39	S	8	c	29.69	- 28	39	38	+ 5	S	8	h	6	39	33	0.05	
GERMANY.																		
Barrow-in-Furness	30.03	29	ESE	2	o	29.90	- 15	29	29	0	ESE	5	o	*	30	27	-	
Liverpool (Bidston)	30.04	29	SE	1	o	29.91	- 14	27	25	0	SE	5	o	3	29	25	-	
Holyhead ...	30.00	31	ESE	1	om	29.81	- 20	37	35	+ 7	S	5	omq	4	37	29	-	
Parsonstown ...	29.97	31	Z	0	b	29.57	- 31	40	39	+ 6	ESE	4	h	*	41	31	0.11	
Valencia ...	29.92	39	WNW	1	oq	29.48	- 38	49	49	+ 6	ESE	8	omq	7	49	37	0.42	
Roche's Point...	29.90	40	WNW	3	c	29.61	- 25	45	45	+ 1	SW	8	h	5	45	34	0.30	
Pembroke ...	29.98	35	E	3	o	29.86	- 10	41	41	+ 8	ESE	5	c	5	43	33	0.04	
Seilly ...	29.93	42	S	4	o	29.89	- 01	45	43	+ 5	SSW	6	o	6	45	38	0.01	
Prawle Point ...	29.99	34	N	2	o	30.00	+ 04	39	36	+ 7	SE	3	oq	3	39	30	-	
Jersey ...	29.99	30	ESE	1	c	30.04	+ 08	36	35	+ 10	S	3	bc	3	36	26	-	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.99	32	NE	4	o	30.05	+ 06	27	26	- 4	E	2	c	1	34	25	-	
Dungeness ...	29.96	30	ESE	3	c	30.02	+ 06	23	22	- 8	N	2	bc	2	32	21	-	
London ...	30.00	29	W	1	o	30.04	+ 01	20	?	- 9	W	1	bc	*	31	20	0.01	
Oxford ...	30.04	27	N	1	b	30.06	+ 02	19	19	- 10	WNW	1	b	*	30	17	-	
Cambridge ...	30.04	28	E	1	o	30.05	00	19	18	- 11	Z	0	b	*	32	18	-	
Yarmouth ...	30.00	30	ESE	4	c	30.03	- 03	29	27	- 1	ESE	3	c	3	31	26	-	
Cuxhaven ...	30.14	21	E	5	m	30.18	- 08	14	12	- 9	SE	3	m	*	26	12	-	
Berlin ...	30.23	10	E	3	b	30.26	- 02	6	6	- 1	E	3	b	*	14	5	-	
Wiesbaden ...	*	*	*	*	*	30.15	+ 13	21	20	+ 3	NE	2	o	*	23	18	-	
Munich ...	29.95	13	E	1	o	30.01	+ 10	10	9	- 4	E	3	f	*	19	9	-	
PENINSULA.																		
The Helder ...	30.04	16	ESE	3	b	30.10	- 02	18	17	0	E	2	b	1	19	16	-	
Brussels ...	*	*	*	*	*	30.12	+ 10	22	21	+ 4	SSW	1	s	*	24	?	-	
Cape Gris Nez...	29.95	23	E	3	c	30.04	+ 07	26	26	+ 2	ESE	1	c	1	28	23	-	
Paris ...	29.99	22	ESE	1	bc	30.12	+ 17	20	20	- 3	S	1	bc	*	27	20	-	
Brest ...	30.04	33	ESE	4	m	30.03	+ 11	40	38	+ 7	S	5	o	4	?	32	-	
Lorient ...	30.07	30	E	1	o	30.09	+ 14	36	33	+ 8	ESE	3	o	2	?	27	-	
Rochefort ...	30.06	26	NE	4	m	30.20	+ 21	28	27	- 1	?	4	o	2	30	21	-	
Belfort ...	29.93	20	NE	1	b	30.06	+ 18	20	19	+ 2	S	1	o	*	24	11	-	
Lyons ...	29.99	24	W	1	o	30.13	+ 17	24	23	+ 8	N	1	m	*	25	?	-	
Nice ...	29.93	38	E	1	o	29.99	+ 08	36	34	+ 2	ESE	1	c	2	43	23	-	
Perpignan ...	29.93	42	NE	3	b	30.06	+ 18	40	37	+ 4	WNW	4	b	*	43	?	0.16	
Biarritz ...	29.99	44	SSW	3	h	30.11	+ 26	45	42	- 1	SW	4	o	2	48	39	0.43	
Corunna ...	*	*	*	*	*	30.30	+ 15	50	46	+ 8	WNW	3	c	3	52	?	0.08	
Lisbon ...	30.30	50	WNW	4	b	30.30	+ 15	50	46	+ 8	WNW	3	c	3	52	?	0.08	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on *Monday, 17th January 1887*

BAROMETER, WIND & SEA.

(Explanation of Map)

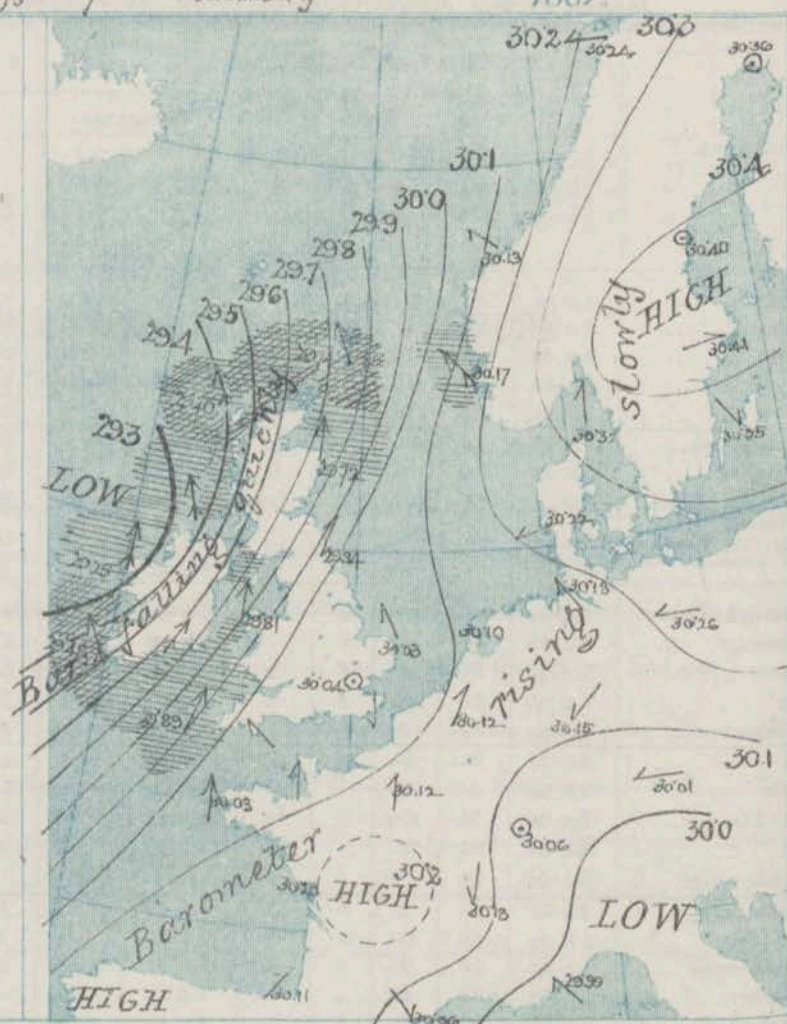
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Samburgh Head	29.861
Stornoway	29.857
Wick	29.897
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	30.064



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

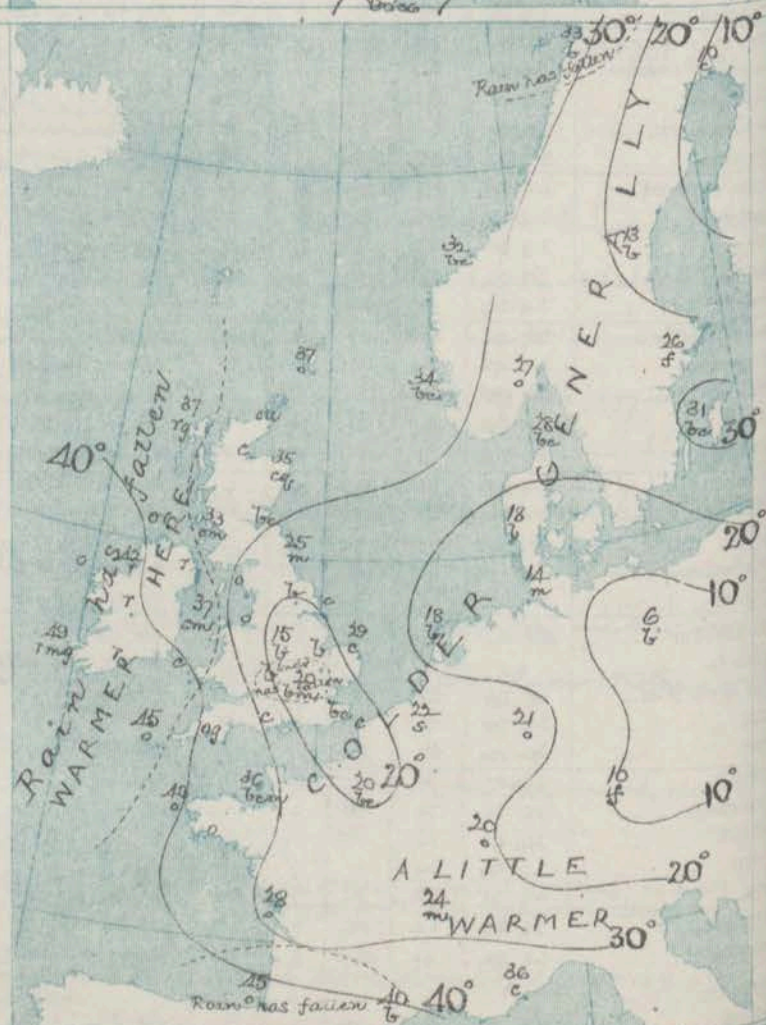
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Day.	Night.	
Samburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	38.9	36.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.8	6.79
Roche's Point	47.8	39.9	42.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	45.9	37.0	39.8	38.4	2.68
LONDON	45.2	34.0	38.1	37.1	2.20
Oxford	48.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.0	38.5	37.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.4 ins. at Horta and Stockholm and Faerøer; 30.3 ins. and upwards over the southern half of Portugal.
Lowest, 29.9 ins. at Kise, 29.25 ins. at Belmullet.
Gradients rather steep in west and apparently increasing.

TEMPERATURE

Highest, 48° at Valencia, 45° at Scilly and Biarritz, 44° at Belmullet.
Lowest, 15° to 20° over the island parts of England, 10° at Haparanda and Munich, 6° at Berlin.
The high temperatures in the west seem to be spreading eastwards slowly.

WIND

Light and variable over France, Germany, and the greater part of England, SE in Norway and on our east coasts.
S on our western and northern coasts, and blows agale in Ireland and Scotland, and a fresh breeze in Wales and the west of England.

WEATHER

Fine and bright except in Ireland and the west of Scotland, where rain prevails. The appearance of the sky, however, is unsettled in the west of England and west of Ireland.

SEA

Runs high in the extreme west and north, and is rough on other part of our western coasts also, but smooth in the south-east and east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although the southerly gale has extended to the north and east of Scotland it shows no sign of abating at present at Valencia, where it is SSE in direction, and the barometer still falls decidedly, and the fall appears to be spreading. The southerly winds seem likely therefore to spread further eastwards during the ensuing twenty-four hours with a rise of temperature and unsettled weather.

FORECASTS

for the 24 hours ending at NOON on 18TH JAN. 1887.

DISTRICTS.

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

FORECASTS.

S² gales, moderating later; squally, showery.

-----D°-----D°-----D°-----

S² winds, increasing to a gale; fair to rainy squally.

Same as No 5

Same as No 2

Wind becoming S², with milder, unsettled weather.

DISTRICTS.

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

FORECASTS.

S² and SW² gales; squally, showery, very unsettled.

-----D°-----D°-----D°-----

-----D°-----D°-----D°-----

-----D°-----D°-----D°-----

-----D°-----D°-----D°-----

WARNINGS

The south cone was hoisted in districts 0, 1, 6, 9 and 10 on Saturday evening, and in districts 7, 8 and 10 this morning. An asterisk is inserted against those districts in which the signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeanses ...	30.29	57	34	SSE 6	b	6	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	30.02	18	27	ENE 4	0	2
Belmullet ...													

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

The Continental reports for yesterday showed that the anticyclonic system noticed over Europe had become somewhat reduced in size, its central area being found over the Baltic, Poland and Western Russia. In the meantime an area of relatively low pressure had appeared to the westward of the British Islands and also over Southern Europe. The wind was E^{ly} at nearly all the southern stations but SE^{ly} or S^{ly} in the west and north of our islands and W or NW over Lapland and Northern Russia; in force it was light or moderate generally, but in Scotland and the north of Ireland it blew strongly. Rain was falling in the south of France and also at Constantinople and Naples, but elsewhere the weather, though locally dull, was mostly fair and dry. Temperatures had risen a little in Russia, Sweden and Spain but fallen elsewhere, and readings ranged from 50° in the extreme south of Italy and the north of Algeria to 5° or below in some parts of Central Europe. The highest individual readings were 52° at Algiers 51° at Oran and 50° at Brindisi; the lowest were 0° Zero at Berlin 5° at Vienna, Prague and Kiev and 8° at Hamburg and Cracow.

In the course of the day the barometer rose steadily in the west of France and a new area of relatively high-pressure appeared over the Bay of Biscay. Very little change occurred in the winds, but slight snow was experienced in many parts of Great Britain and the weather remained very cold generally.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 9TH TO THE 15TH JANUARY 1887.

The weather of the past week has again been unsettled and usually cold. At the commencement of the period temperature was comparatively high, but as time advanced the thermometer again fell and at the close of the week some very sharp frosts were experienced, with snow in places.

The 9th January witnessed the final dispersal of the low-pressure system which lay over our islands at the close of the previous week. The changeable weather which accompanied the disturbance was maintained to the last, and on the 9th showers of snow or hail were experienced in most parts of the Kingdom.

On the night of the 10th a rather deep depression advanced to our extreme north-western coasts occasioning S^{ly} gales in many parts of the Kingdom, with rain and a general rise of temperature. In the course of the following twenty-four hours, however, the disturbance travelled away to the north-eastward, and during the remainder of the week conditions were influenced mainly by two anticyclonic systems.

The first of these advanced over our islands on the 12th and passed rapidly eastwards. During the prevalence of the system thick cold fogs were experienced in many parts of England, and in its rear a new depression skirted our extreme western coast occasioning SW^{ly} gales in the north.

The second appeared over Ireland on the morning of the 14th and also travelled quickly eastwards. Fog was again experienced as the main portion of the area lay over us, with a very low temperature at some of the inland stations.

At the close of the week the anticyclone was moving away over the North Sea and a depression was apparently drawn towards our western coasts. Strong E^{ly} winds therefore prevailed in the south, and strong SE^{ly} or S^{ly} winds in the west and north, with slight snow 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).

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for Tuesday 18th January 1887.

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	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 ..	30.39	13	SE	4	b	30.36	-.00	13	13	+ 3	S	6	0	*	17	7	-	
Hernösand ...	30.41	21	Z	0	f	30.40	.00	23	23	+ 10	SSW	2	0	*	?	12	-	
Stockholm ...	30.44	25	Z	0	f	30.43	+.02	24	23	- 2	Z	0	f	*	27	24	-	
Wisby ...	30.38	26	E	2	b	30.38	+.03	31	31	0	SE	4	0	*	32	25	-	
Bodö ...	29.95	36	ESE	4	b	29.81	-.13	37	34	+ 4	ESE	4	0	2	?	32	-	
Christiansund...	29.81	41	SE	6	0	29.69	-.12	39	38	+ 7	SE	8	c	4	41	?	-	
Skudesnaes ...	29.97	33	SE	9	0	29.85	-.12	32	32	- 2	SE	9	S	7	34	?	-	
Christiania Fjord (Færder)	30.32	25	NNE	4	0	30.20	-.20	28	27	+ 1	ESE	6	C	3	?	21	-	
Skagen (The Scaw)	30.26	30	S	4	b	30.18	-.14	30	29	+ 2	SSW	5	bc	3	30	28	-	
Faø ...	30.22	13	SSE	4	b	30.13	-.09	13	12	- 5	SSE	6	bc	*	28	10	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.34	38	SSE	8	n	29.44	-.30	39	38	+ 2	N	3	0	5	39	37	0.33	
Stornoway ...	29.19	39	SW	2	bc	29.56	+.16	35	35	- 2	SSW	3	bp	3	41	30	0.94	
Wick ...	29.33	35	S	9	c	29.64	+.03	35	34	+ 1	SW	1	b	3	39	31	0.18	
Nairn ...	29.26	38	SSW	5	bc	29.59	-.08	36	35	+ 6	SW	3	b	1	40	22	0.03	
Aberdeen ...	29.69	35	S	8	nsq	29.68	-.04	32	31	- 3	SSW	1	b	2	37	31	0.53	
Leith ...	29.44	37	SW	6	0	29.74	-.04	38	36	+ 9	WSW	2	b	*	42	27	0.07	
Shields ...	29.70	29	S	6	S	29.77	-.17	37	35	+ 12	N	2	b	3	38	24	0.01	
Spurn Head ...	29.87	30	SSE	6	0	29.86	-.15	35	35	+ 5	N	3	bc	4	35	26	0.08	
York ...	29.83	28	S	3	0	29.87	-.12	32	32	+ 12	N	1	f	*	36	19	0.17	
Loughborough	29.87	30	SE	3	S	29.89	-.15	34	33	+ 19	ESE	1	f	*	37	15	0.30	
ANDROSSAN.																		
Malin Head ...	29.42	40	SE	7	ns	29.75	+.04	41	40	+ 8	WSW	4	b	3	43	32	0.27	
Mullaghmore ...	29.37	42	SW	3	b	29.74	+.40	37	37	+ 2	SSW	2	om	3	44	35	0.10	
Belmullet ...	29.45	45	WSW	5	cm	29.77	+.42	38	35	- 4	SSW	2	bc	3	47	36	0.08	
Donaghadee ...	29.48	43	N	3	c	29.75	+.50	40	39	- 4	ESE	2	0	*	48	38	0.10	
Barrow-in-Furness	29.47	44	SW	5	n	29.82	+.13	34	33	- 5	N	4	b	2	44	33	0.35	
Liverpool (Bidston)	29.61	32	SE	8	S	29.84	-.06	38	37	+ 9	WSW	2	bc	*	41	27	0.16	
Holyhead ...	29.66	33	SE	6	0	29.88	-.03	38	36	+ 11	N	3	b	3	43	27	0.06	
Parsonstown ...	29.58	40	S	8	qnm	29.87	+.06	40	39	+ 3	WSW	1	b	3	47	37	0.14	
Valencia ...	29.56	47	SSW	2	0	29.85	+.28	35	35	- 5	SSE	1	C	*	50	34	0.03	
Roche's Point...	29.65	48	WNW	3	0	29.80	+.32	45	43	- 4	ESE	3	0	4	52	41	0.33	
Pembroke ...	29.61	48	N	4	c	29.83	+.22	44	43	- 1	ESE	1	0	3	50	40	0.40	
Scilly ...	29.63	45	S	6	n	29.89	+.03	43	42	+ 2	WNW	2	em	3	48	41	0.29	
Prawle Point ...	29.70	50	WSW	5	f	29.87	-.02	50	50	+ 5	SSW	2	fd	6	50	43	0.33	
Jersey ...	29.84	42	S	5	n	29.93	-.07	47	47	+ 8	Z	0	og	3	48	34	0.14	
Hurst Castle ...	29.98	36	S	4	onm	29.99	-.05	38	38	+ 2	S	3	onm	3	38	34	0.24	
Dungeness ...	29.94	40	SSW	5	n	29.93	-.12	44	44	+ 17	SW	3	f	1	45	26	0.20	
London ...	30.00	37	SSW	4	0	29.96	-.06	36	36	+ 13	SW	5	n	4	37	21	0.14	
Oxford ...	29.98	35	S	2	om	29.93	-.11	38	38	+ 18	S	2	odm	*	38	20	0.02	
Cambridge ...	29.88	35	SE	4	S	29.94	-.12	36	36	+ 17	Z	0	f	*	37	17	0.10	
Yarmouth ...	29.94	31	S	2	0	29.94	-.11	36	35	+ 17	S	1	0	*	36	18	0.23	
GERMANY.																		
Cuxhaven ...	30.00	30	SSW	3	C	29.92	-.11	34	33	+ 5	SSW	3	OS	4	34	28	0.17	
Berlin ...	30.22	16	SSE	2	C	30.20	+.02	9	8	- 5	S	2	C	*	16	8	-	
Wiesbaden ...	30.33	15	ESE	2	b	30.32	+.06	7	7	+ 1	E	1	b	*	16	6	-	
Munich ...	*	*	*	*	*	?	?	22	22	+ 1	ESE	2	0	*	25	21	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.17	13	NE	2	0	30.21	+.20	12	12	+ 2	SE	3	m	*	18	?	-	
BRUSSELS.																		
Cape Gris Nez...	*	*	*	*	*	30.12	+.02	28	23	+ 1	S	4	0	*	26	21	-	
Paris ...	30.02	31	S	5	0	29.97	-.07	29	29	+ 3	SSW	7	0	5	34	25	0.04	
Brest ...	30.19	25	S	1	bc	30.09	-.03	25	24	+ 5	S	4	0	*	30	?	-	
Lorient ...	29.86	48	SSW	7	n	29.99	-.04	49	48	+ 9	SSW	4	f	5	?	37	0.16	
Rochefort ...	29.99	45	SSW	5	n	30.07	-.02	42	42	+ 6	SE	1	f	5	45	?	0.47	
Belfort ...	30.21	33	SE	5	0	30.12	-.08	35	34	+ 7	SSE	7	OS	2	?	?	0.16	
Lyons ...	30.16	22	SW	1	0	30.18	+.12	21	21	+ 1	WSW	1	0	*	24	11	-	
Nice ...	30.26	22	N	4	0	30.28	+.15	18	17	- 6	N	1	bc	*	25	16	-	
Perpignan ...	30.01	37	E	1	bc	30.11	+.12	38	31	+ 2	E	4	b	2	41	28	-	
BIARRITZ.																		
Corunna ...	30.10	43	WNW	5	b	30.20	+.14	36	35	- 4	NE	3	n	*	50	36	0.08	
Lisbon ...	30.18	51	WNW	4	n	30.16	+.05	55	54	+ 10	WNW	5	n	5	?	45	0.43	
PENIN- SULA.																		
Lisbon ...	30.39	52	WNW	4	b	30.41	+.11	54	53	+ 4	WNW	4	0	2	55	50	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Tuesday 18th January, 1887.

BAROMETER, WIND & SEA.

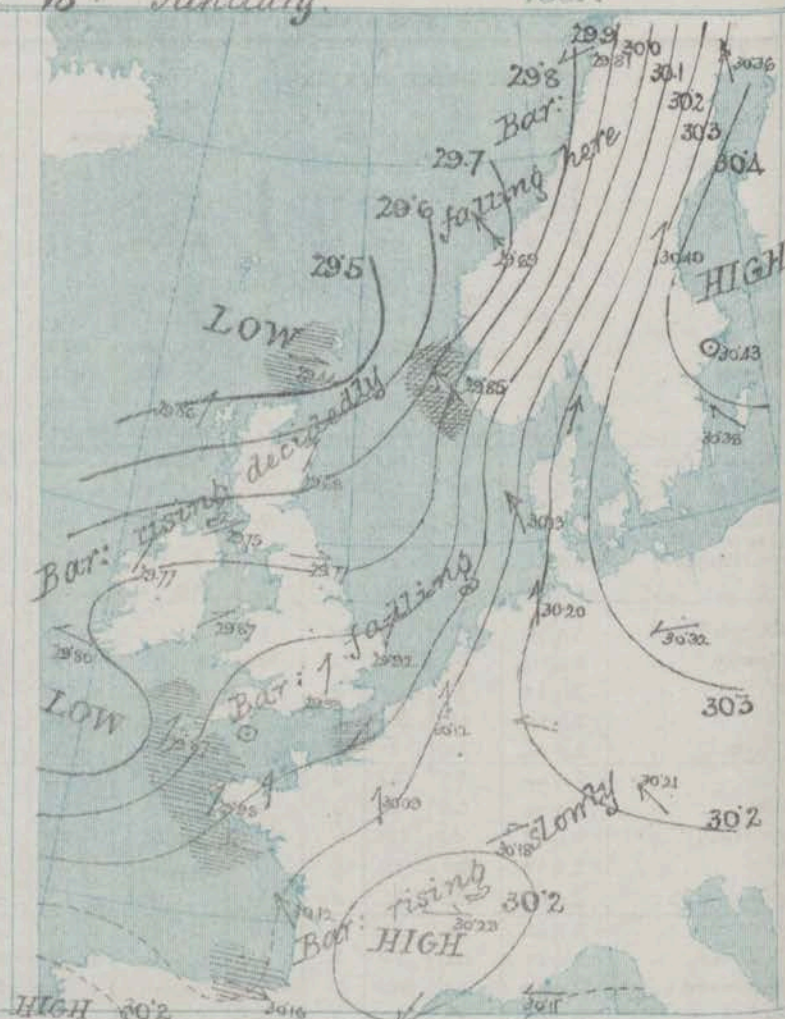
(Explanation of Map)

- 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; → = 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
	in.
Sumburgh Head	29.861
Stornoway	29.857
Wick	29.897
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Glasgow	29.807
York	29.916
Ardrossan	29.817
Donaghadee	29.829
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.957
Oxford	29.974
Cambridge	29.975
Yarmouth	29.904



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

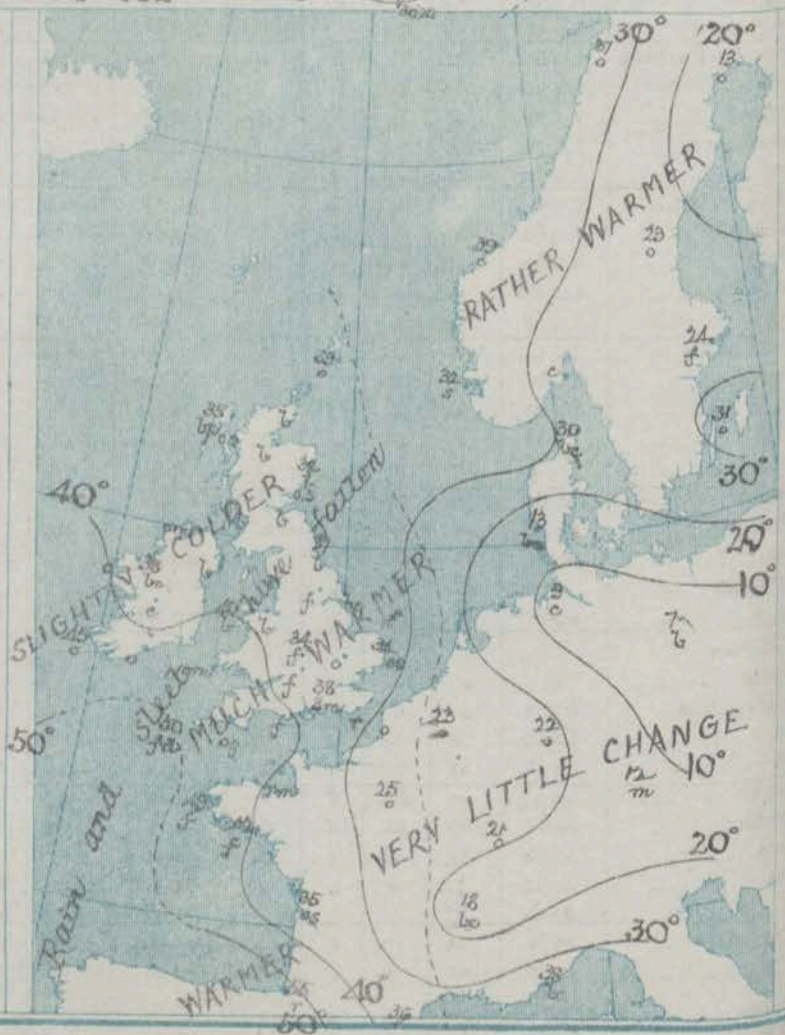
- Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.
- Weather** — is shown by Letters of the Beaufort Scale.
- Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	A.T. & M. Dry.	A.T. & M. Wet.	
Sumburgh Head	49.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.84
Leith	45.3	34.0	38.2	37.2	1.98
Glasgow	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	41.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.0	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	38.6	35.7	1.57
Yarmouth	42.2	34.6	37.6	37.1	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, 30.4 mm., over the Gulf of Bothnia and also over the south of Portugal, 30.3 mm. in the neighbourhood of Lyons.
Lowest, 29.4 mm. at Lumburg, Hd., 29.8 mm. at Valencia.

Gradients are slight and irregular except over Scandinavia and the eastern part of the North Sea. The barometer is rising over the British Isles, falling in Norway.

TEMPERATURE

Highest 53° at Biarritz, 50° at Kelly, 45° at Valencia.

Lowest 7° at Berlin, 12° at Munich, 13° at Hafslunda, 32° at Aberdeen and York.

It is from 14° to 18° higher over the greater part of England than it was yesterday.

WIND

Moderate from SW at our northern stations, while a SE gale prevails in Norway, S and SE in the south, very variable over France.

WEATHER

Dull and foggy over France and our southern countries, with sleet and rain in places; fine in the NW, N, and NE. Sleet, snow or cold rain fell very generally yesterday.

SEA

Little disturbed except at Lundy, and between the Shetlands and the coast of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed yesterday has passed away to the northward, but over the British Isles, North Sea, and France there are several shallow local disturbances, and the weather consequently remains in a changeable, unsettled condition in most places.

FORECASTS

For the 24 hours ending at NOON on 19th January 1887.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

SW² and S² winds, light; weather improving.

Very light winds, cold, foggy to fair.

----- D° ----- D° ----- D° -----

Same as No 5

Same as No 1.

SE² and S² winds, light, dull, some sleet or rain at times.

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

Varying light breezes; fair as a whole.

----- D° ----- D° ----- D° -----

Same as No 5

S² or SE² breezes, light; fine, cold.

SE² and E² winds, moderate; dull, some rain or sleet.

WARNINGS

NONE ISSUED.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	30.07	34	30	SSE 8	bc	6	Holyhead ...	29.62	38	38	S 8	hgm	5
Sumburgh Head ...	29.48	38	35	SSE 8	0	8	Valencia ...	29.52	32	52	W 4	om	14
Stornoway ...	29.10	38	38	SSE 10	hsg	8	Scilly ...	29.69	48	48	S 8	h	6
Aberdeen ...	29.60	33	32	S 8	sq	6	Dungeness ...	30.01	35	34	W 4	0	2
Shields ...	29.80	29	29	S 8	0	2	London ...	30.01	32	30	SSE 2	em	*
Ardrossan ...	29.48	38	38	SE 7	h	6	Yarmouth ...	30.01	31	30	SW 2	e	3
Malin Head ...	29.28	43	43	SW 4	0	4	Jersey ...	30.01	37	35	SSW 3	0	3
Mullaghmore ...	29.33	46	45	SW 5	em	5	Rocheport ...	30.20	33	31	NNE 4	0	2
Belmullet ...	29.24	46	46	W 2	e	*							

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

The Continental reports for yesterday showed that pressure was highest 30.3 in. and upwards over the Baltic and neighbouring countries. The lowest readings 29.3 in. and less were found in a deep depression, the centre of which lay to westward of the British Isles, but areas of relatively low pressure 29.9 in. and less existed respectively over Central Russia and Southern Italy. Over Central and Northern Europe the winds were light and rather variable, but in the south of France moderate westerly NW winds were reported, while in the western and northern parts of the United Kingdom there was a fall from the S. Rain was falling in the west of our Islands and overcast skies were reported in France, but elsewhere the weather (with local variations) was mostly fine. Temperature had fallen a few degrees in Southern Europe and also over the south-east of England and the eastern shores of the North Sea, but on our west coast it had risen decidedly; readings ranged from 50° and upward in the extreme south of Italy and some parts of Algeria and up to 15° or below over Lapland and Finland and to 5° or below over Eastern Germany. The highest individual reading was 56° at Lunel (Marseille), 53° at Oran and Alicante, 52° at Malta, and 50° at Brindisi; the lowest were 2° at Breslau, 4° at Cracow, 6° at Berlin, 9° at Groningen and 10° at Haparanda.

In the course of the day the deep depression to the westward of our Islands travelled away in a northerly direction and the gales in the west and north gradually subsided. The S winds, however, extended over the whole of the United Kingdom and temperature over England rose quickly with sheet in many 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 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 Wednesday 19th 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 ..	30.39	24	S	6	0	30.16	-.20	30	29	+ .17	S	4	0	*	?	12	0.04	
Hernösand ..	30.40	21	S	6	0	30.32	-.08	25	23	+ .2	SSW	4	0	*	27	16	—	
Stockholm ..	30.44	28	SSE	2	0	30.39	-.04	31	31	+ .7	SSE	4	0	*	?	21	—	
Wisby ..	30.39	31	S	4	0	30.39	+ .01	31	30	0	SE	4	0	*	?	28	0.04	
Bodö ..	29.78	37	ESE	4	0	29.76	-.02	39	33	+ .2	SE	4	0	2	39	34	—	
Christiansund...	29.80	40	SE	4	0	29.74	-.05	39	32	0	ESE	6	0	4	43	36	—	
Skudesnaes ..	30.02	37	SE	8	0	29.78	-.07	34	33	+ .2	SE	9	0	7	37	32	—	
Christiania Fjord (Væder)	30.25	22	SE	4	0	30.25	+ .05	30	29	+ .2	SE	8	0	4	32	?	—	
Skagen (The Scaw)	30.26	30	SSW	4	0	30.19	+ .01	29	28	- .1	SSW	4	0	3	30	23	—	
Fanö ..	30.23	15	SSE	6	0	30.16	+ .03	19	18	+ .6	SSE	6	0	*	19	12	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.70	41	WSW	3	0	29.13	-.21	44	42	+ .5	S	5	0	f	44	36	0.23	
Stornoway ..	29.63	42	S	5	0	29.31	-.25	41	40	+ .6	WNW	4	0	f	50	33	0.34	
Wick ..	29.73	38	S	2	0	29.27	-.27	45	44	+ .10	NW	4	0	4	46	34	0.15	
Nairn ..	29.73	38	WSW	2	0	29.22	-.27	51	50	+ .15	W	5	0	f	51	34	0.07	
Aberdeen...	29.84	34	SSW	1	0	29.42	-.26	44	42	+ .12	S	4	0	og	44	30	0.08	
Leith ..	29.84	38	WSW	1	0	29.49	-.25	42	40	+ .14	SW	6	0	*	42	34	0.07	
Shields ..	29.93	37	L	0	0	29.70	-.07	47	45	+ .10	SW	4	0	2	47	35	0.08	
Spurn Head ..	30.00	33	SSE	3	0	29.91	+ .05	43	42	+ .8	SW	3	0	2	43	31	0.02	
York ..	29.98	36	SE	1	0	29.88	+ .01	45	44	+ .13	SSW	4	0	*	45	31	0.05	
Loughborough	29.99	34	ESE	1	0	29.95	+ .06	42	41	+ .8	SW	3	0	*	45	31	0.06	
GERMANY.																		
Ardrossan ..	29.78	41	SE	4	0	29.55	-.20	48	47	+ .7	S	7	0	d	48	38	0.24	
Malin Head ..	29.57	36	SE	4	0	29.44	-.20	50	50	+ .13	W	6	0	r	51	35	0.42	
Mullaghmore	29.53	47	SSE	7	0	29.56	-.21	53	51	+ .15	SW	7	0	og	54	36	0.33	
Belmullet ..	29.50	53	SSW	5	0	29.57	-.18	50	50	+ .10	WSW	7	0	*	51	35	0.37	
Donaghadee ..	29.77	41	SW	4	0	29.64	-.18	52	52	+ .18	SW	6	0	4	53	32	0.44	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.84	38	SSE	3	0	29.78	-.06	45	45	+ .7	S	6	0	*	45	37	0.18	
Liverpool (Bidston)	29.90	40	SE	3	0	29.86	-.02	51	48	+ .13	WSW	5	0	4	51	38	0.10	
Holyhead ..	29.84	42	SSE	2	0	29.85	-.02	49	49	+ .9	SSW	5	0	mg	49	40	0.07	
Parsonstown ..	29.71	48	SSW	1	0	29.76	-.09	52	51	+ .17	SSW	2	0	*	53	34	0.22	
Valencia ..	29.77	54	SW	7	0	29.84	+ .04	53	52	+ .8	SSE	7	0	om	54	44	0.05	
Roche's Point...	29.83	51	WSW	5	0	29.89	+ .06	50	50	+ .6	SW	5	0	7m	51	44	0.05	
Pembroke ..	29.88	46	SSW	3	0	30.01	+ .12	48	48	+ .2	SSW	6	0	og	49	42	0.04	
Scilly ..	29.98	52	WSW	5	0	30.11	+ .24	51	50	+ .1	SW	5	0	5	52	49	0.02	
Prawle Point ..	29.99	49	WSW	4	0	30.14	+ .28	49	48	+ .2	WSW	4	0	4	49	45	0.21	
Jersey ..	30.06	44	SW	3	0	30.23	+ .24	46	46	+ .8	WSW	3	0	om	50	38	0.24	
PENINSULA.																		
Hurst Castle ..	30.01	45	SW	2	0	30.13	+ .20	45	45	+ .1	SW	3	0	md	46	41	0.07	
Dungeness ..	30.08	40	SSW	5	0	30.07	+ .11	44	44	+ .8	W	3	0	3	45	36	0.07	
London ..	30.05	40	SW	3	0	30.08	+ .15	47	46	+ .9	SW	3	0	*	48	38	—	
Oxford ..	30.01	38	SE	2	0	30.06	+ .12	46	45	+ .10	SW	4	0	*	46	36	0.03	
Cambridge ..	30.02	37	S	1	0	30.05	+ .11	45	44	+ .9	S	1	0	*	45	35	0.03	
Yarmouth ..	30.06	34	S	2	0	30.01	+ .09	42	41	+ .8	SW	4	0	f	42	33	0.08	
SOUTH AFRICA.																		
Cuxhaven ..	30.19	22	S	2	0	30.26	+ .06	16	15	+ .7	S	2	0	f	22	?	—	
Berlin ..	30.34	14	ESE	1	0	30.43	+ .11	7	6	0	ESE	1	0	*	19	5	—	
Wiesbaden ..	*	*	*	*	*	30.39	?	20	20	- .2	NE	2	0	*	24	19	—	
Munich ..	30.30	6	E	2	0	30.36	+ .15	-1	-2	- .13	SE	3	0	*	19	-4	—	
INDIA.																		
The Helder ..	30.12	28	S	3	0	30.10	?	31	31	?	SSE	3	0	3	32	23	0.04	
Brussels ..	*	*	*	*	*	30.19	+ .07	24	24	+ .11	SSW	4	0	*	?	?	0.04	
Cape Gris Nez...	30.06	41	S	4	0	30.13	+ .16	45	45	+ .16	S	4	0	f	?	28	0.04	
Paris ..	30.19	33	S	1	0	30.24	+ .15	35	35	+ .10	SSW	1	0	*	?	30	0.04	
Brest ..	30.15	51	WNW	5	0	30.25	+ .26	50	49	+ .1	WNW	4	0	5	50	37	0.04	
Lorient ..	30.13	50	WNW	5	0	30.23	+ .26	49	48	+ .7	W	3	0	5	52	39	0.04	
Rochefort ..	30.22	48	E	4	0	30.38	+ .26	48	48	+ .13	W	4	0	f	48	?	0.12	
Belfort ..	30.28	37	N	1	0	30.28	+ .10	28	27	+ .7	ESE	1	0	*	?	20	—	
Lyons ..	30.32	28	S	1	0	30.34	+ .06	30	30	+ .2	WNW	1	0	*	33	?	—	
Nice ..	30.26	38	L	0	0	30.23	+ .12	37	31	- .1	E	1	0	1	46	30	—	
Perpignan ..	?	?	?	?	?	?	?	54	51	?	?	4	0	*	?	39	0.47	
Barritz ..	30.30	53	NW	7	0	30.39	+ .23	53	52	- .2	WSW	4	0	f	?	50	0.20	
Coruna ..	*	*	*	*	*	30.38	?	?	?	?	?	?	?	?	?	?	?	
Lisbon ..	30.38	53	NNW	5	0	30.23	-.08	44	44	- .10	NNE	4	0	f	59	43	—	

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

WEATHER CHARTS

for 8 a.m. on Wednesday 19th January, 1887.

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.

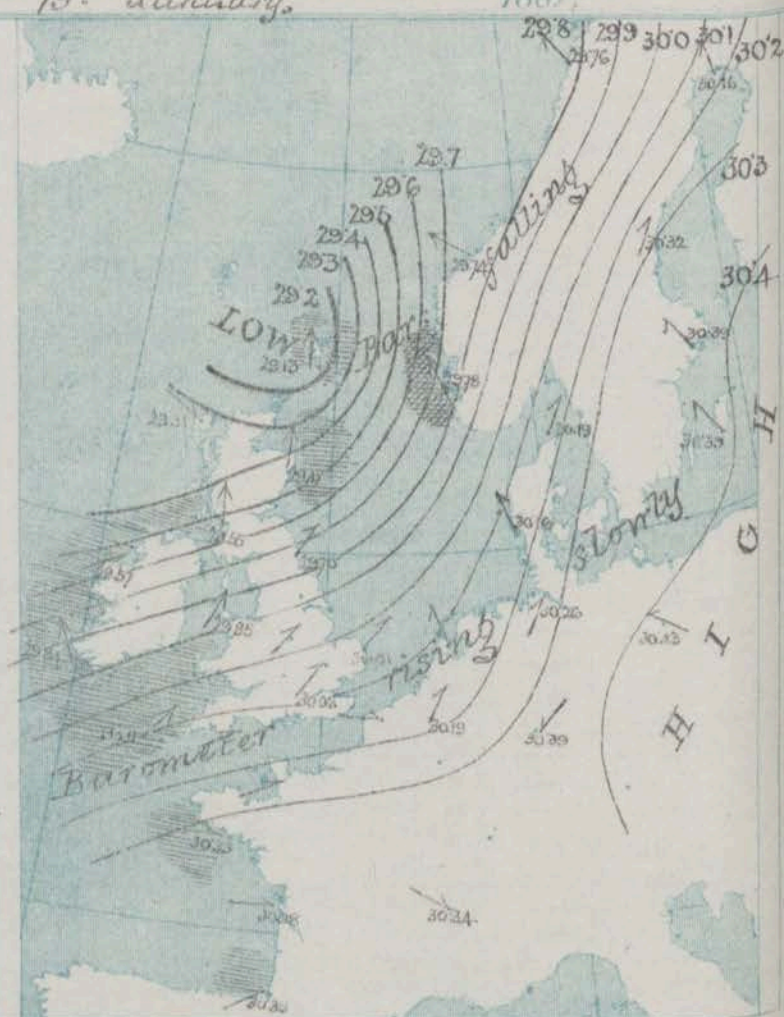
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS	
	in.	
Sumburgh Head	29.861	
Stornoway	29.857	
Wick	29.697	
Nairn	29.729	
Aberdeen	29.768	
Leith	29.819	
Shields	29.807	
York	29.918	
Ardrossan	29.817	
Donaghadee	29.823	
Holyhead	29.875	
Liverpool	29.906	
Valencia	29.852	
Roche's Point	29.883	
Pembroke	29.913	
Scilly	29.953	
Hurst Castle	29.975	
Dover	30.002	
LONDON	29.987	
Oxford	29.974	
Cambridge	29.976	
Yarmouth	29.964	



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.

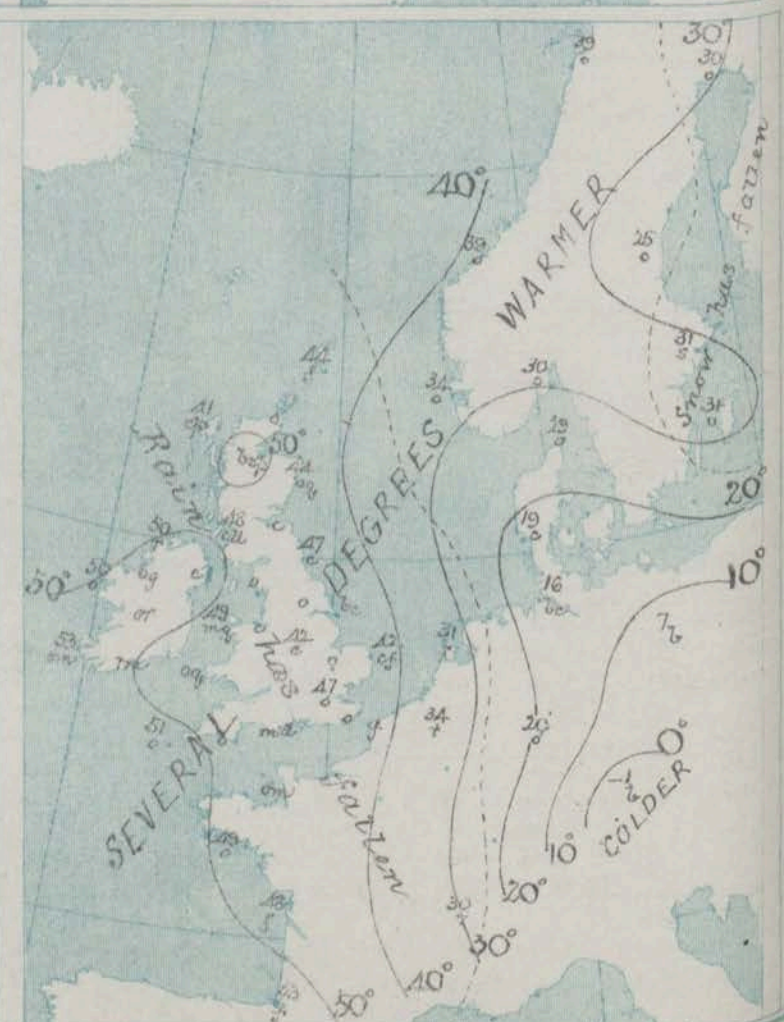
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	A.S. & S.	Wet	
Sumburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	8.40
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	41.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	48.9	37.0	39.6	38.4	2.63
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	48.9	34.6	37.8	36.6	2.83
Cambridge	44.8	32.9	36.6	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	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, 30.4 ins and upwards over the Baltic and North Germany, but relatively high 30.3 ins and upwards in France also.
Lowest, 29.2 ins and less in a depression having its centre a little to the west of the Shetlands.

TEMPERATURE

Highest, 53° at Mallaashmore, Valencia and Biarritz.
Lowest, -1° F. at Munich, +7° at Berlin, 16° at Copenhagen and 19° at Tams; lowest in our islands 41° at Hornorway.
Since yesterday morning a rapid rise has taken place over our islands and France.

WIND

Moderate W. in the north of Scotland and south of France.
SW. over the greater part of our islands, but SE. on the eastern shores of the North Sea.
Strong in force in many places, with a gale in the south of Norway.

WEATHER

Fine in Germany and the east of England.
Cloudy or overcast elsewhere with rain at some of the Irish and Scotch stations.
Rain fell yesterday in most parts of the Kingdom.

SEA

Boaty on our western and extreme northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours a new depression has skirted our extreme western and north-western coasts in a north-easterly direction.

This is now passing away to the northward of Scotland, but as the wind at Valencia has backed to SSE during the night there is some likelihood of the advance of yet another disturbance from the south-westward. Mild changeable weather is therefore likely to continue over our islands.

FORECASTS

For the 24 hours ending at NOON on 20th January 1887.

DISTRICTS.

FORECASTS.

1 SCOTLAND
NORTH

W. to SW. winds, freshening, changeable, some rain.

2 SCOTLAND
EAST

S. and SW. winds, increasing in force, changeable, some rain.

3 ENGLAND
N. E.

Same as N^o 5.

4 ENGLAND
EAST

Same as N^o 5.

5 MIDLAND
COUNTIES

Same as N^o 5.

6 ENGLAND
SOUTH

S. and SW. winds, freshening considerably, fair to squally and rainy.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

S. winds, strong, squally, some rain.

7 ENGLAND
N. W.

----- D° ----- D°

8 ENGLAND
S. W.

S. and SW. winds, strong, squally and rainy at first, some improvement later.

9 IRELAND
NORTH

----- D° ----- D°

10 IRELAND
SOUTH

----- D° ----- D°

WARNINGS

None issued.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenæs ...	29.94	33	32	SE 9	S	7	Holyhead ...	29.90	44	43	SSE 2	0	2
Sumburgh Head ...	29.65	41	39	W 3	bc	5	Valencia ...	29.74	53	53	SW 6	om	5
Stornoway ...	29.65	42	40	S 4	bcp	4	Scilly ...	29.92	52	52	W 6	omf	6
Aberdeen ...	29.83	36	34	SSW 1	c	2	Dungeness ...	30.01	40	40	SW 5	r	3
Shields ...	29.92	41	38	WSW 1	m	2	London ...	30.00	43	42	Z 0	off	*
Ardrossan ...	29.88	42	41	SE 3	0	2	Yarmouth ...	29.99	36	35	Z 0	off	4
Malin Head ...	29.70	40	40	S 7	0	3	Jersey ...	30.02	41	41	S 3	f	3
Mullaghmore ...	29.73	43	40	SE 5	of	5	Rochefort ...	30.18	42	41	SSE 5	f	2
Belmullet ...	29.63	41	40	SE 3	r	*							

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

Yesterday morning's reports showed that pressure was still high over the Continent generally, especially over Northern Russia (where the reading exceeded 30.7 ins) and over the south of Portugal (where they exceeded 30.3 ins). To the north-westward, however, pressure was lower, so that in the north of Scotland readings were below 29.5 ins. The winds were chiefly S^W (SE to SW) over the British Islands, North Sea and Scandinavia and blew strongly in places with foggy changeable weather and showers in places, but were light and variable over Eastern and Central Europe, while in the south of France they were NE^W, with fair cold weather and some fog. Temperature was low, especially over Northern Europe, but was rising decidedly over the British Islands where the SW^W wind was spreading more and more over the Kingdom. The highest readings reported were 54° at Lisbon, 53° at Bilbao, 52° at Oporto, 51° at Malta and 50° at Scilly; the lowest - 28° F. (or 6° below the freezing point) at Archangel, + 3° at Breslau, 4° at Prague, 5° at Cracow, 7° at Berlin, 11° at Hermanstadt, 13° at Haparanda, 15° at Moscow and Helsingfors, 18° at Lyons and 19° at Besançon.

During the day the mild SW^W winds spread considerably over the British Islands and their neighbourhood.

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 20th 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.		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.)		Weather.	Max.		Min.	
Haparanda ..	29.76	29	W	8	S	29.34	- .82	29	29	- 1	W	2	bc	*	30	18	0.24	
Hernösand ...	29.78	28	SSW	9	S	29.69	- .63	31	29	+ 6	SSW	2	o	*	?	16	0.20	
Stockholm ...	30.09	31	SE	6	O	29.88	- .56	32	32	+ 1	S	6	S	*	34	30	0.04	
Wisby ...	30.28	30	SSW	6	O	29.97	- .42	32	30	+ 1	SSW	4	bc	*	32	28	-	
Bodö ...	29.30	27	EHE	4	S	29.22	- .84	33	31	- 6	SW	6	o	3	39	23	-	
Christiansund...	29.28	40	SW	9	e	29.72	- .02	40	34	+ 1	hsw	8	c	5	41	34	0.04	
Skudesnaes ...	29.59	42	S	2	N	29.98	+ .20	36	35	+ 2	NW	2	c	5	?	34	1.18	
Christiania Fjord (Færdar)	29.77	35	SSW	8	S	29.83	- .42	35	34	+ 5	NW	2	bc	5	?	?	-	
Skagen (The Scaw)	29.78	32	SEW	9	O	29.77	- .42	37	36	+ 8	N	3	c	3	37	?	0.47	
Fanö ...	29.86	31	SSW	6	O	29.96	- .20	36	36	+ 17	NW	4	c	*	36	19	0.16	
Sumburgh Head	29.66	40	NW	2	c	30.01	+ .88	41	38	- 3	W	3	c	5	44	37	0.04	
Stornoway ...	29.77	37	NW	3	btsp	30.19	+ .88	40	39	- 1	SW	3	cg	2	42	33	0.10	
Wick ...	29.63	38	NW	2	c	30.17	+ .90	37	35	- 8	SW	3	bc	1	45	33	0.07	
Nairn ...	29.76	40	W	2	c	30.22	+ .90	38	36	- 13	hsw	2	bc	1	51	34	0.13	
Aberdeen...	29.74	40	NW	4	O	30.24	+ .82	35	33	- 9	N	2	b	1	48	35	0.04	
Leith ...	29.80	43	W	2	c	30.34	+ .85	37	35	- 15	W	1	b	*	53	35	-	
Shields ...	29.75	49	SW	3	O	30.35	+ .65	35	33	- 12	hsw	2	bm	2	49	33	0.01	
Spurn Head ...	29.85	43	SEW	4	O	30.33	+ .42	36	34	- 7	NW	4	bm	3	46	34	0.07	
York ...	29.80	47	SEW	2	m	30.38	+ .50	35	33	- 10	NW	1	b	*	50	34	0.07	
Loughborough	29.88	48	SSW	6	b	30.39	+ .44	35	34	- 7	W	3	b	*	49	35	0.25	
Ardrossan ...	29.85	43	NW	4	c	30.38	+ .83	42	41	- 6	W	3	b	2	48	37	0.05	
Malin Head ...	29.92	40	NW	4	cg	30.42	+ .98	42	41	- 8	hsw	3	om	3	50	39	0.02	
Mullaghmore ...	30.00	43	NW	6	cg	30.48	+ .92	43	41	- 10	hsw	4	cm	4	54	40	0.07	
Belmullet ...	30.08	44	NW	7	c	30.53	+ .96	45	43	- 5	W	3	bc	*	50	41	0.05	
Donaghadee ...	29.90	43	NE	5	c	30.45	+ .81	37	36	- 15	W	4	bc	2	53	35	0.06	
Barrow-in-Furness	29.83	43	NW	2	N	30.41	+ .63	38	37	- 7	NW	3	bc	*	47	37	0.08	
Liverpool (Bidston)	29.84	48	hsw	5	N	30.45	+ .59	39	38	- 12	NW	3	b	4	52	38	0.18	
Holyhead ...	29.90	45	hsw	6	m/q	30.47	+ .62	43	41	- 6	NW	6	cg	5	50	42	0.17	
Parsonstown ...	30.06	43	W	2	bc	30.58	+ .82	34	33	- 18	SSW	1	c	*	53	32	0.26	
Valencia ...	30.18	47	NW	4	cg	30.63	+ .79	45	44	- 8	NW	2	c	2	54	41	0.27	
Roche's Point...	30.08	45	NW	4	c	30.59	+ .70	40	38	- 10	NW	3	b	3	51	39	0.25	
Pembroke ...	29.96	48	W	6	f	30.54	+ .53	42	42	- 6	NW	4	bc	4	49	42	0.27	
Scilly ...	30.10	51	SW	6	of	30.54	+ .43	46	43	- 5	N	6	c	6	52	45	0.04	
Prawle Point ...	30.13	49	hsw	5	O	30.48	+ .34	39	37	- 10	NW	3	b	3	49	37	0.30	
Jersey ...	30.23	50	hsw	5	og	30.89	+ .16	43	38	- 3	N	5	bm	4	50	42	0.42	
Hurst Castle ...	30.12	47	hsw	5	m	30.39	+ .26	37	36	- 8	N	5	b	3	47	36	0.28	
Dungeness ...	30.14	46	W	4	O	30.27	+ .20	40	40	- 4	N	5	c	4	47	40	0.24	
London ...	30.26	50	hsw	4	c	30.26	+ .28	38	36	- 9	NW	4	b	*	54	38	0.34	
Oxford ...	29.97	48	SW	4	O	30.41	+ .35	37	35	- 9	NW	2	b	*	50	37	0.11	
Cambridge ...	29.97	47	SW	3	O	30.38	+ .33	34	34	- 11	N	1	b	*	50	33	-	
Yarmouth ...	29.98	47	SW	5	bc	30.30	+ .29	39	38	- 3	NW	3	b	3	47	38	0.17	
Cuxhaven ...	30.14	30	S	4	N	29.98	- .28	37	36	+ 21	NW	2	f	*	37	?	0.04	
Berlin ...	30.36	14	SE	2	b	30.16	- .27	25	25	+ 18	S	2	o	*	25	?	*	
Wiesbaden ...	*	*	*	*	*	30.25	- .14	27	27	+ 7	Z	0	o	*	27	19	-	
Munich ...	30.38	7	SW	2	b	30.28	- .08	16	15	+ 14	SE	1	c	*	16	-2	-	
The Helder ...	*	*	*	*	*	30.13	- .06	40	40	+ 6	hsw	3	N	*	42	?	0.16	
Brussels ...	*	*	*	*	*	30.13	- .11	40	40	+ 5	SW	1	N	*	45	?	0.12	
Cape Gris Nez...	30.33	41	SSW	1	O	30.13	- .11	40	40	+ 5	SW	1	N	*	45	?	0.12	
Brest ...	30.29	50	hsw	5	O	30.47	+ .22	44	41	- 6	NW	7	bc	5	50	45	0.08	
Lorient ...	30.36	51	hsw	4	O	30.42	+ .09	44	41	- 5	N	7	b	5	50	41	0.16	
Rocheport ...	30.46	49	W	4	O	30.27	- .11	49	45	- 2	NW	8	o	3	52	39	0.24	
Belfort ...	30.32	37	NE	1	O	30.23	- .05	34	33	+ 6	Z	0	f	*	34	20	-	
Nice ...	30.29	43	E	1	c	30.26	- .03	42	34	+ 5	E	3	b	1	52	36	-	
Perpignan ...	30.32	53	NW	4	bc	30.32	+ .37	45	43	- 9	NW	3	bc	*	59	37	-	
Biarritz ...	30.48	54	Z	0	N	30.41	+ .02	52	49	- 1	hsw	5	b	2	54	48	-	
Corunna ...	*	*	*	*	*	30.43	+ .10	45	44	+ 1	NW	4	b	?	61	?	-	
Lisbon ...	30.39	57	NE	5	b	30.43	+ .10	45	44	+ 1	NW	4	b	?	61	?	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Thursday, 20th January.

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

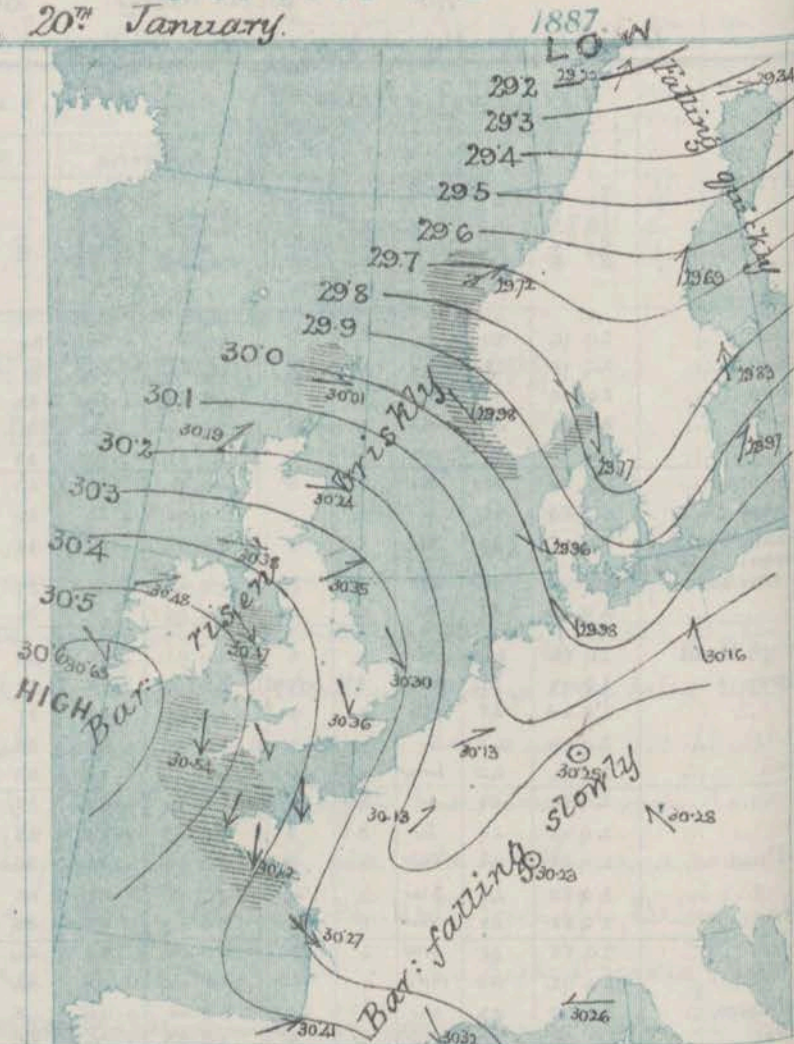
Sea Disturbance — where considerable is shown thus

— 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.
	in.
Sumburgh Head	29.641
Stornoway	29.637
Wick	29.627
Nairn	29.739
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.823
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

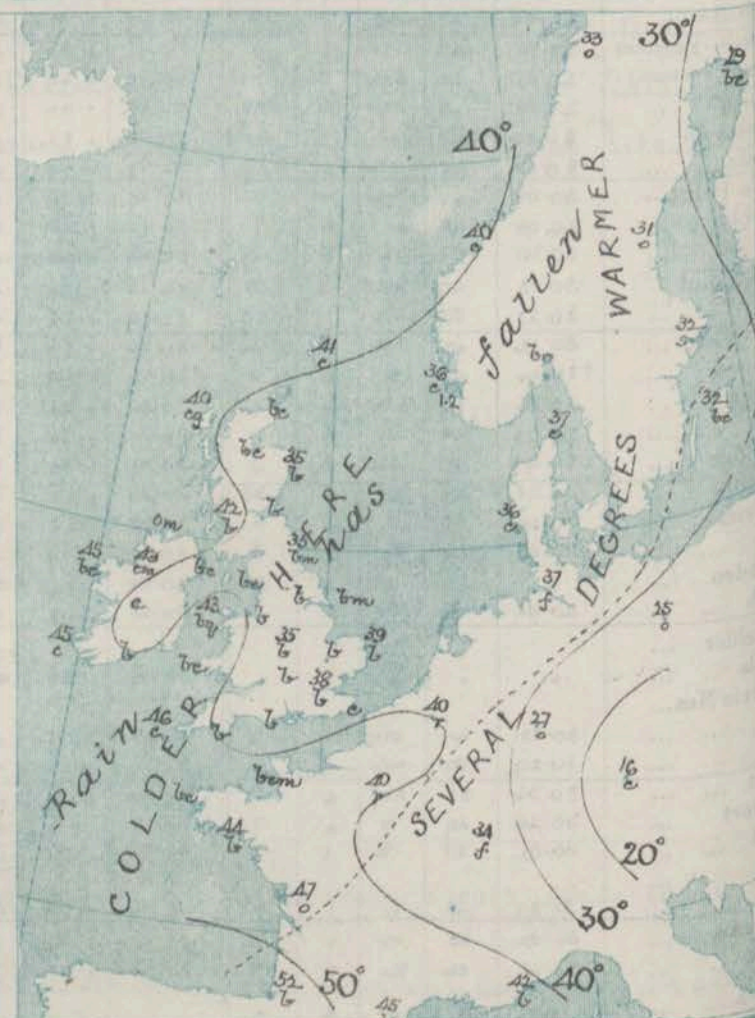
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min.	Average Dry	Average Wet	
Sumburgh Head	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.5	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	43.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.8	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.22
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.0	37.0	39.6	38.4	2.89
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins: and upwards, in an anticyclone over and to the SW² of Ireland.
Lowest, 29.2 ins: in a depression near Bodø, 29.7 ins. to 30.2 ins. in a V-shaped subsidiary system, which stretches S² and S¹ over the E. side of the North Sea and Spitzbergen.
Gradients are slight in our Islands, moderate in the north of Scandinavia. The barometer is still rising fast in the N.

TEMPERATURE

Highest, 52° at Biarritz, 46° at Billy, 45° at Lisbon and Valencia.
Lowest, 34° at Larnaca and Cambridge, 29° at Haparanda, 25° at Berlin, and 16° at Munich.
The thermometer has risen very quickly over Germany and Denmark, but fallen over the British Isles.

WIND

SW¹ at the most northern stations - moderate on the Scotch coast, strong to a gale in the north-west of Norway.
NW¹ to N¹ over England and the west of France - moderate on our coasts, strong to a gale in the Bay of Biscay.

WEATHER

Drill and foggy over Germany and France, with rain at Paris and Brussels.
Fine and bright over the United Kingdom, but becoming rather cloudy again in the extreme northwest.
Rain has fallen generally during the past 24 hours, and hail in some places.

SEA

Rather rough on several parts of W and SW coasts, as well as off the south coast of Norway and in the Bay of Biscay, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north yesterday, and a long V-shaped subsidiary system, which subsequently advanced over the British Isles and France, are both passing away - the former in a NE¹ and the latter in an E² direction. In their rear the barometer has risen rapidly, and the wind has veered to NW¹ or N¹ with dry and cool weather.

As the rise of the barometer is still well maintained in the west and northwest, and is spreading rapidly to the E¹, it is probable that the anticyclone in the south-west will spread over the United Kingdom during today, causing cold foggy weather, especially at the inland stations.

FORECASTS

For the 24 hours ending at NOON on 21st Jan: 1887.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ² winds, moderate, fair at first, subsequently increasing with showery weather.
1	SCOTLAND EAST	N ² to W ² or SW ² breezes, light to moderate; fair, cold at night.
2	ENGLAND N.E.	----- D° ----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	N ² to NW ² breezes, light; fine, cold, becoming foggy later.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N° 0.
7	ENGLAND N.W.	Wind backing to W or SW; fine to unsettled.
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	Wind backing to W and SW, fine at first, less settled later.
10	IRELAND SOUTH	----- D° ----- D° ----- D° -----
WARNINGS		NONE ISSUED

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.58	29	33	SSE 9	h	7	Holyhead ...	29.82	49	49	SW 5	mqf	5
Sumburgh Head	29.38	43	41	rtw 2	o	6	Valencia ...	29.94	49	48	rtw 5	Am	5
Sornoway ...	29.61	41	40	rtw 4	eps	3	Scilly ...	30.11	52	51	SW 6	c	6
Aberdeen ...	29.49	41	40	rtw 4	d	4	Dungeness ...	30.11	47	47	W 4	o	3
Shields ...	29.68	49	47	SSW 4	o	2	London ...	30.08	54	51	WSW 4	c	*
Ardrossan ...	29.68	44	43	rtw 3	o	2	Yarmouth ...	30.02	47	46	WSW 4	cf	4
Malin Head ...	29.74	41	40	W 5	h	5	Jersey ...	29.73	50	48	WSW 5	o	4
Mullaghmore ...	29.81	48	43	rtw 5	ogm	4	Rochefort ...	30.43	49	49	rtw 1	c	2
Belmullet ...	29.90	44	42	rtw 3	o	*							

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

The Continental Reports for yesterday have not yet 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 Friday 21st January 1887.

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

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	29.27	27	W	6	b c	28.70	-0.64	31	30	+2	W	6	0	*	32	23	0.16	
Hernösand	29.66	30	SSW	4	b	29.28	-0.41	35	32	+4	SW	2	b	*	?	28	-	
Stockholm	30.06	42	WSW	2	h	29.60	-0.23	37	36	+5	SW	4	0	*	?	27	0.20	
Wisby	30.04	35	SSW	4	0	29.75	-0.22	37	35	+5	W	4	0	*	?	28	0.32	
Bodö	29.07	36	WSW	6	0	28.69	-0.53	35	35	+2	WSW	7	0	*	36	32	0.28	
Christiansund	29.34	40	SW	9	h	29.49	-0.23	42	37	+2	W	8	0	?	?	39	0.16	
Skudesnaes	30.06	42	WSW	8	h	29.97	-0.01	45	45	+9	W	8	0	?	?	36	-	
Christiania Fjord (Færdar)	29.95	38	SSW	8	b c	29.69	-0.14	40	39	+5	SW	4	b	?	?	-	-	
Skagen (The Scaw)	30.08	37	WSW	4	0	29.85	+0.08	40	39	+3	W	8	0	?	?	34	-	
Fanö	30.36	34	WSW	4	b	30.23	+0.27	36	36	0	WSW	4	0	*	36	34	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.83	46	W	7	h	29.87	-0.14	46	45	+5	W	6	0	6	47	39	0.02	
Stornoway	30.13	48	SW	7	qm	30.14	-0.05	46	45	+6	SW	6	0	5	48	38	0.02	
Wick	29.95	46	W	6	c	30.10	-0.07	45	43	+8	WSW	6	0	2	47	35	0.01	
Nairn	30.14	47	WSW	4	b c	30.17	-0.05	45	43	+7	SW	3	0	2	48	35	-	
Aberdeen	30.20	42	SSW	3	0	30.23	-0.01	40	38	+5	W	0	b	1	47	34	-	
Leith	30.37	44	W	5	0	30.33	-0.01	36	34	-1	W	5	0	*	52	36	-	
Shields	30.45	41	SSW	2	c	30.43	+0.08	44	41	+9	WSW	2	0	2	45	34	-	
Spurn Head	30.52	37	WSW	2	b	30.52	+0.19	39	38	+3	W	3	0	2	44	35	-	
York	30.53	39	W	1	b	30.52	+0.14	42	40	+7	W	1	b c	*	44	33	0.01	
Loughborough	30.59	38	WSW	1	b	30.59	+0.20	38	37	+3	WSW	3	0	*	44	35	-	
GERMANY.																		
Ardrrossan	30.45	46	SW	3	0	30.43	+0.05	44	43	+2	SW	5	0	4	46	41	-	
Malin Head	30.43	44	WSW	4	om	30.42	0.00	44	43	+2	WSW	4	0	4	45	42	0.05	
Mullaghmore	30.56	45	SW	4	om	30.52	+0.04	45	43	+2	SW	5	0	4	47	40	-	
Bellaulet	30.57	47	W	5	0	30.53	0.00	46	45	+1	WSW	6	0	*	52	45	-	
Donaghadee	30.54	45	WSW	3	c	30.53	+0.08	44	42	+7	S	4	0	2	45	35	-	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.53	42	SW	3	b c	30.54	+0.13	42	41	+4	WSW	4	0	*	43	37	-	
Liverpool (Bidston)	30.59	41	W	3	b	30.60	+0.15	42	40	+3	W	3	0	4	44	39	-	
Holyhead	30.61	43	WSW	1	b	30.62	+0.15	44	43	+1	W	3	0	2	46	42	-	
Parsonstown	30.64	43	SSW	1	0	30.63	+0.05	44	42	+10	SSW	1	0	q	46	33	-	
Valencia	30.70	47	WSW	3	0	30.68	+0.05	47	45	+2	WSW	3	0	q	50	44	-	
Roche's Point	30.69	46	W	3	b c	30.69	+0.10	45	43	+5	W	3	0	3	47	37	-	
Pembroke	30.67	44	WSW	1	b	30.69	+0.15	45	43	+3	W	3	0	q	45	39	-	
Scilly	30.66	47	W	4	c	30.71	+0.17	45	43	-1	WSW	2	0	4	48	42	-	
Prawle Point	30.68	40	WSW	3	b	30.72	+0.24	38	37	-1	WSW	2	0	2	49	36	-	
Jersey	30.63	42	WSW	3	b	30.72	+0.33	40	39	-3	WSW	1	0	1	45	38	-	
Hurst Castle	30.63	40	WSW	2	b	30.69	+0.30	35	35	-2	W	2	0	2	47	33	-	
Dungeness	30.56	40	WSW	3	b c	30.64	+0.27	33	32	-7	W	2	0	2	44	31	-	
London	30.62	37	WSW	3	b c m	30.65	+0.19	34	34	-4	SW	2	0	*	44	32	-	
Oxford	30.66	36	WSW	1	b	30.65	+0.24	35	34	-2	SW	2	0	cm	44	34	-	
Cambridge	30.61	36	W	0	b	30.63	+0.25	35	34	+1	SW	1	0	*	44	31	-	
Yarmouth	30.56	37	WSW	3	b	30.58	+0.28	35	34	-4	W	3	0	cm	43	32	-	
Cuxhaven	30.44	34	WSW	2	0	30.41	+0.43	36	35	-1	W	5	0	*	?	34	0.06	
Berlin	30.23	35	WSW	1	f	30.44	+0.28	33	33	+8	WSW	2	0	*	36	?	*	
Wiesbaden	*	*	*	*	*	30.67	+0.42	26	25	-1	W	0	b c	*	36	23	0.08	
Munich	30.42	31	W	0	0	30.58	+0.30	33	33	+17	S	1	f	*	36	16	0.04	
ITALY.																		
The Helder	30.52	37	WSW	1	b	30.53		38	38		WSW	3	0	2	41	37	-	
Brussels	*	*	*	*	*	30.67	+0.54	33	33	-7	S	3	0	*	43	32	0.04	
Cape Gris Nez	30.49	41	WSW	4	b	30.67		37	36		SSW	4	0	2	45	37	-	
Paris	30.52	41	W	5	0	30.71	+0.68	34	33	-6	W	3	0	*	42	33	-	
Brest	30.66	41	WSW	4	b	30.71	+0.24	38	36	-6	WSW	3	0	4	50	37	-	
Lorient	30.62	44	WSW	8	b	30.73	+0.31	38	37	-6	WSW	3	0	2	52	36	-	
Rocheport	30.51	45	W	8	0	30.66	+0.39	41	40	-6	WSW	5	0	2	50	36	-	
Belfort	30.38	36	W	3	0	30.55	+0.32	35	34	+1	W	1	0	*	41	31	-	
Lyons	30.39	37	W	3	c	30.58		36	36		W	3	0	*	41	35	-	
Nice	30.28	42	W	1	b	30.43	+0.17	40	34	-2	WSW	3	0	1	52	37	-	
Perpignan	30.31	46	WSW	3	b c	30.49	+0.17	43	39	-2	WSW	4	0	*	55	41	-	
Biarritz	30.40	45	W	8	h	30.52	+0.11	43	42	-9	WSW	4	0	3	52	36	0.20	
Corunna	*	*	*	*	*	30.53	-0.04	50	46	+4	WSW	5	0	5	54	43	-	
Lisbon	30.26	51	WSW	7	b	30.30	-0.13	45	38	0	WSW	7	0	2	59	43	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS



for 8 a.m. on *Fridays 21st January* 1887

BAROMETER, WIND & SEA

(Explanation of Map)

Barometer — Isolines 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 —

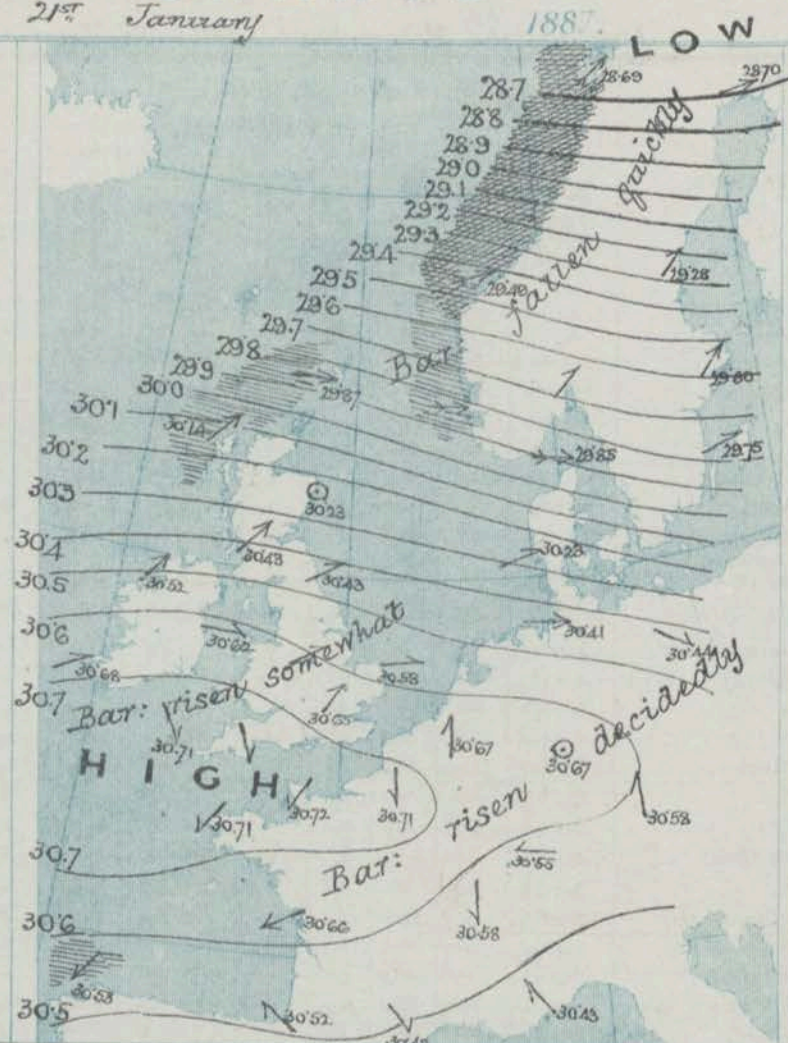
→ — forces above 10; → — forces 8 to 10;
 — — forces 5 to 7; — — forces 1 to 4;
 ⊙ — dead calm.

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 10 Years 1871-1880.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.861
Stornoway	29.857
Wick	29.897
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.908
Valencia	29.852
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.976
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.976
Yarmouth	29.964



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.

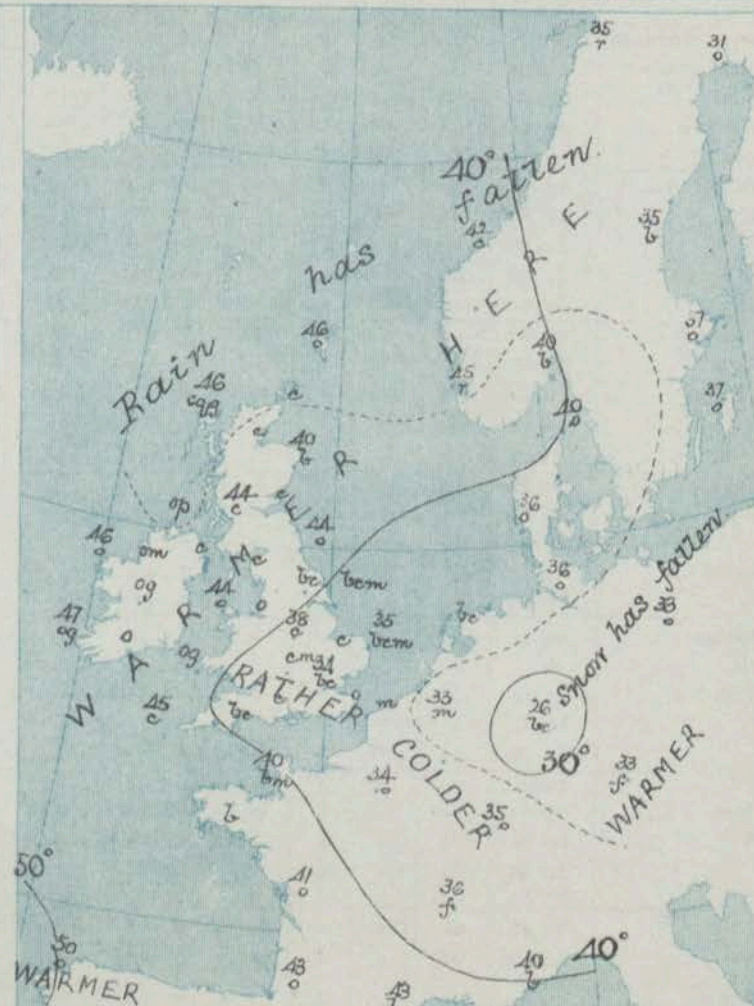
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.3	3.68
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	35.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.63
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	6.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	40.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.3	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.8	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.08

NOTE — The Temperature means are for the 20 years 1871-80, 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 in an anticyclone, the centre of which lies off our south-west coast. Lowest, 28.7 — and less over Lapland, 30.3 in. and less over the southern parts of the Spanish Peninsula. Gradients slight in the south, rather steep in the north. Barometer is beginning to fall in the west of Ireland.
TEMPERATURE	Highest, 50° at Corunna, 47° at Valencia, 46° at Lumborough Head, and 42° at Christiansund. Lowest, 26° at Wiesbaden, 31° at Haparanda, 34° in London, 36° at Fins and Leith. The thermometer has risen rapidly over Germany, and slightly over the greater part of our Islands, but fallen in France.
WIND	W ² (NW to SW) at all but the southern stations, blowing hard in Norway and at the Scars, and strongly on our own northern coasts. It is N to NE over the Channel and France, and is light.
WEATHER	Dull with some rain in the extreme west and north; fair on our other coasts and over the Continent, with fog locally. Some rain fell yesterday at the German stations and also on our extreme N coasts.
SEA	High on the Norwegian coast, rough at Lumborough Hd., moderate at our NW stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the far north is now passing away towards Northern Russia. The barometer, however, has begun to fall again in the west of Ireland, with an increasing SW wind, and these changes point to the ^{possible} advance of a new depression from the westward towards our northern coasts, but the changes are very slight at present.

The anticyclone seems to be moving slowly in a southeasterly direction so that it is probable that southerly winds and wet weather will shortly become general over the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 22nd JAN 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 SCOTLAND NORTH	SW ² and W ² winds, strong to gale; rain at times.	* 6 SCOTLAND WEST	Same as N° 0.
* 1 SCOTLAND EAST	SW ² winds, moderate and fine at first, stronger and less settled later.	7 ENGLAND N. W.	W ² and SW ² winds, increasing, showery.
2 ENGLAND N. E.	----- D° ----- D° ----- D° -----	8 ENGLAND S. W.	Varying W ² (NW-SW) breezes; fair as a whole.
3 ENGLAND EAST	Same as N° 5	* 9 IRELAND NORTH	SW ² winds, increasing, a gale in far W; dull, showery.
4 MIDLAND COUNTIES	Same as N° 5	10 IRELAND SOUTH	----- D° ----- D° ----- D° -----
5 ENGLAND SOUTH	SW ² and W ² breezes, moderate to fresh; fair as a whole. Milder.		The south cone was hoisted yesterday in districts 6, 7, and parts of 8 and 9. An asterisk is inserted against those districts in which signals are now flying.
		WARNINGS	

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.42	42	39	WNW 8	0	5	Holyhead ...	30.60	45	44	WNW 2	6	3
Sumburgh Head ...	29.93	43	42	W 5	1	5	Valencia ...	30.70	49	47	W 2	0	2
Stornoway ...	30.14	49	46	SW 6	m	5	Scilly ...	30.64	48	45	N 5	6c	6
Aberdeen ...	30.28	40	37	WSW 1	6c	1	Dungeness ...	30.46	44	44	NNE 4	6c	3
Shields ...	30.45	42	39	WSW 2	c	2	London ...	30.54	44	40	WSW 3	6	*
Ardrossan ...	30.46	45	43	SW 3	0	2	Yarmouth ...	30.46	43	41	WNW 4	6	3
Malin Head ...	30.45	45	44	WSW 3	0	3	Jersey ...	30.55	45	42	NNE 5	6	4
Mullaghmore ...	30.54	46	44	WSW 5	0m	4	Rocheport ...	30.38	45	42	WNW 8	0	4
Belmullet ...	30.57	47	45	WSW 4	0	*							

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

The Continental reports for yesterday morning showed that an anticyclone, in which readings exceeded 30.7 in., lay over Central Russia, while another high pressure system with readings above 30.5 in. existed to the SW² of our Islands and the NW² of Spain. The lowest pressures—29.3 in. and less—were found in a depression the centre of which lay to the northward of Iceland. The wind was SW¹ in the extreme north of the British Islands, and S or SE over Central Europe, and the shores of the Baltic, but elsewhere it was chiefly NW¹ or N¹. Rain was falling over the Netherlands and the northern parts of France and Algeria, and dull weather prevailed over Central Europe, but in the NW¹ countries the sky was moderately clear. Temperature had fallen in our Islands, the west and north of France and the south of Russia, but risen elsewhere—several degrees in Germany. Readings ranged from a little above 50° in southern Italy, and some parts of Algeria, and from above 40° over Western and Southern Europe generally, to 5° or below over Bohemia and to -10° or below over Central Russia. The highest individual readings were -12° at Moscow, -2° at St. Petersburg and Kiev, +2° at Prague and 4° at Cracow.

In the course of the day a new and large depression approached Norway from the W² and the barometer on our northern coasts therefore fell decidedly, while the wind increased to a moderate gale from SW or W. Over the southern parts of Western Europe little change occurred beyond an improvement in the weather over France.

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).

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DAILY WEATHER REPORT.

for Saturday 22nd JAN^y

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.	Ins.	BAROMETER.		SHADE TEMP.			WIND.		Ins.	Sea (0 to 9.)	Weather.	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	28.28	28	NW	6	b	28.99	+29	15	15	-16	NW	2	c	*	32	?	Ins.	-
	Hernösand	29.35	34	SW	2	b	29.19	-09	29	28	-6	Z	0	s	*	39	27	-	-
	Stockholm	29.54	39	W	4	b	29.27	-33	39	36	+2	WSW	4	bc	*	41	36	-	-
	Wisby	29.70	38	W	4	bc	29.47	-28	39	38	+2	W	4	bc	*	41	32	-	-
	Bodö	29.48	39	WNW	8	c	29.07	+32	32	31	-3	WSW	6	c	3	36	29	-	-
	Christiansund	29.43	35	WSW	2	r	29.32	-17	41	39	-1	WSW	9	r	7	2	34	1.14	-
	Skudesnaes	29.90	45	W	6	o	29.78	-19	45	43	0	W	6	o	5	45	45	-	-
	Christiania Fjord (Ferder)	29.66	40	SW	6	o	29.47	-22	44	42	+4	WSW	8	b	4	?	?	-	-
	Skagen (The Scaw)	29.80	40	WNW	7	b	29.65	-20	42	41	+2	NW	7	bc	4	?	39	-	-
	Faßö	30.17	35	WSW	6	b	30.06	-17	37	37	+1	WSW	6	o	*	37	35	-	-
BRITISH ISLANDS.	Sumburgh Head	29.87	46	W	5	o	29.85	-02	43	39	-3	WNW	4	c	6	47	41	0.07	-
	Stornoway	30.05	49	SW	7	rg	30.11	-03	43	41	-3	W	3	bc	2	49	41	0.35	-
	Wick	30.01	48	W	6	bc	30.08	-02	40	39	-5	W	2	c	1	49	38	0.10	-
	Nairn	30.09	49	WSW	4	bc	30.10	-07	44	43	-1	W	1	a	1	50	43	0.13	-
	Aberdeen	30.16	43	Z	0	b	30.10	-13	44	42	+4	SSW	1	c	1	49	40	-	-
	Leith	30.32	46	SW	6	c	30.22	-11	47	45	+2	WSW	6	b	*	47	43	-	-
	Shields	30.42	45	W	4	o	30.29	-14	47	44	+3	SW	5	a	2	47	43	-	-
	Spurn Head	30.49	41	W	4	c	30.39	-13	41	40	+2	W	4	ogm	2	42	36	-	-
	York	30.49	43	W	3	c	30.40	-12	43	42	+1	W	3	bc	*	48	40	-	-
	Loughborough	30.56	42	WNW	2	o	30.47	-12	37	36	-1	W	3	c	*	45	36	-	-
GERMANY.	Ardrossan	30.40	47	WSW	5	ogp	30.27	-16	47	45	+3	WSW	6	bcgpr	5	47	43	0.02	-
	Malin Head	30.36	46	WSW	4	om	30.29	-13	45	45	+1	WNW	3	op	4	46	44	0.02	-
	Mullaghmore	30.47	45	SW	5	cm	30.39	-13	46	45	+1	SW	5	om	4	47	43	-	-
	Belmullet	30.49	47	SW	4	o	30.40	-13	47	47	+1	WSW	3	o	*	47	45	0.03	-
	Donaghadee	30.44	45	WNW	7	bc	30.40	-13	45	44	+1	W	3	c	1	48	43	-	-
	Barrow-in-Furness	30.49	44	SW	3	o	30.41	-13	43	42	+1	WSW	6	o	*	43	41	-	-
	Liverpool (Bidston)	30.55	43	W	4	o	30.47	-13	41	39	-1	WSW	5	o	4	44	39	-	-
	Holyhead	30.58	45	SW	2	o	30.50	-12	44	43	0	W	4	c	2	46	43	-	-
	Parsonstown	30.59	45	SW	1	o	30.51	-12	43	42	-1	WSW	1	og	*	46	42	-	-
	Valencia	30.62	48	SSW	4	og	30.53	-15	46	45	-1	WSW	3	o	3	49	45	-	-
FRANCE & NETHERLANDS.	Roche's Point	30.62	46	W	3	o	30.54	-15	45	43	0	WSW	3	o	3	47	43	-	-
	Pembroke	30.64	45	W	3	c	30.56	-13	43	43	-2	W	4	cpm	3	45	43	0.02	-
	Scilly	30.66	46	WNW	1	o	30.58	-13	43	42	-2	Z	0	o	4	49	42	-	-
	Prawle Point	30.69	42	NW	1	o	30.61	-11	41	40	+3	NW	1	o	1	48	37	-	-
	Jersey	30.68	42	WNW	1	bm	30.62	-10	38	38	-2	SW	2	f	2	47	38	0.01	-
	Hurst Castle	30.66	43	W	2	o	30.59	-10	43	42	+8	WNW	3	c	2	46	33	-	-
	Dungeness	30.61	38	W	3	m	30.55	-09	41	39	+8	WNW	4	b	3	43	30	-	-
	London	30.63	41	SW	2	af	30.54	-11	41	39	+7	W	3	o	*	43	34	-	-
	Oxford	30.63	40	SW	2	o	30.55	-10	39	38	+4	WSW	1	o	*	44	35	-	-
	Cambridge	30.60	39	SW	1	o	30.51	-12	39	38	+4	SW	1	o	*	44	34	-	-
PORTUGAL & SPAIN.	Yarmouth	30.54	38	WNW	4	bc	30.47	-11	35	34	0	W	3	b	3	41	33	-	-
	Cuxhaven	30.36	34	W	4	o	30.24	-17	37	37	+1	W	6	f	*	37	34	-	-
	Berlin	30.37	36	W	3	o	30.27	-17	33	32	0	W	5	o	*	37	?	-	-
	Wiesbaden	*	*	*	*	*	30.61	-06	22	22	-4	Z	0	bc	*	36	21	-	-
	Munich	30.63	32	SW	1	o	30.58	-00	28	27	-5	W	3	b	*	36	23	-	-
	The Helder	30.49	38	WSW	1	b	30.41	-12	39	38	+1	WSW	3	o	3	39	37	-	-
	Brussels	*	*	*	*	*	30.56	-11	37	37	+4	WSW	4	r	*	38	?	-	-
	Cape Gris Nez	30.63	39	WNW	5	o	30.55	-12	41	40	+4	WNW	7	o	5	45	37	-	-
	Paris	30.72	34	N	1	o	30.68	-03	28	28	-6	WSW	3	f	*	35	27	-	-
	Brest	30.70	42	NE	3	b	30.62	-09	37	36	-1	NE	4	b	4	48	36	-	-
ITALY & GREECE.	Lorient	30.71	43	ENE	3	b	30.62	-11	34	34	-4	SE	4	m	5	46	32	-	-
	Rochefort	30.64	40	ENE	7	o	30.63	-03	38	37	-3	E	5	b	2	45	32	-	-
	Belfort	30.61	34	E	1	o	30.60	+05	39	38	-2	E	3	o	*	36	29	-	-
	Lyons	30.69	36	N	5	m	30.67	+09	33	33	-3	E	1	f	*	36	32	-	-
	Nice	30.52	43	E	1	b	30.54	+11	43	36	+3	ESE	1	b	1	54	39	-	-
	Perpignan	30.40	43	NE	5	b	30.63	+14	36	36	-7	NE	3	o	*	55	30	-	-
	Biarritz	30.58	46	S	4	bc	30.55	+03	39	37	-4	ESE	5	b	1	61	34	-	-
	Corunna	*	*	*	*	*	30.36	-17	41	39	-9	E	1	b	4	54	39	-	-
	Lisbon	30.19	53	NE	8	b	30.12	-18	46	45	+1	NE	7	o	4	55	45	0.12	-

For Explanation of Columns, see p. 1.

WEATHER CHARTS

for 8 a.m. on Saturday

22nd January 1887.

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.

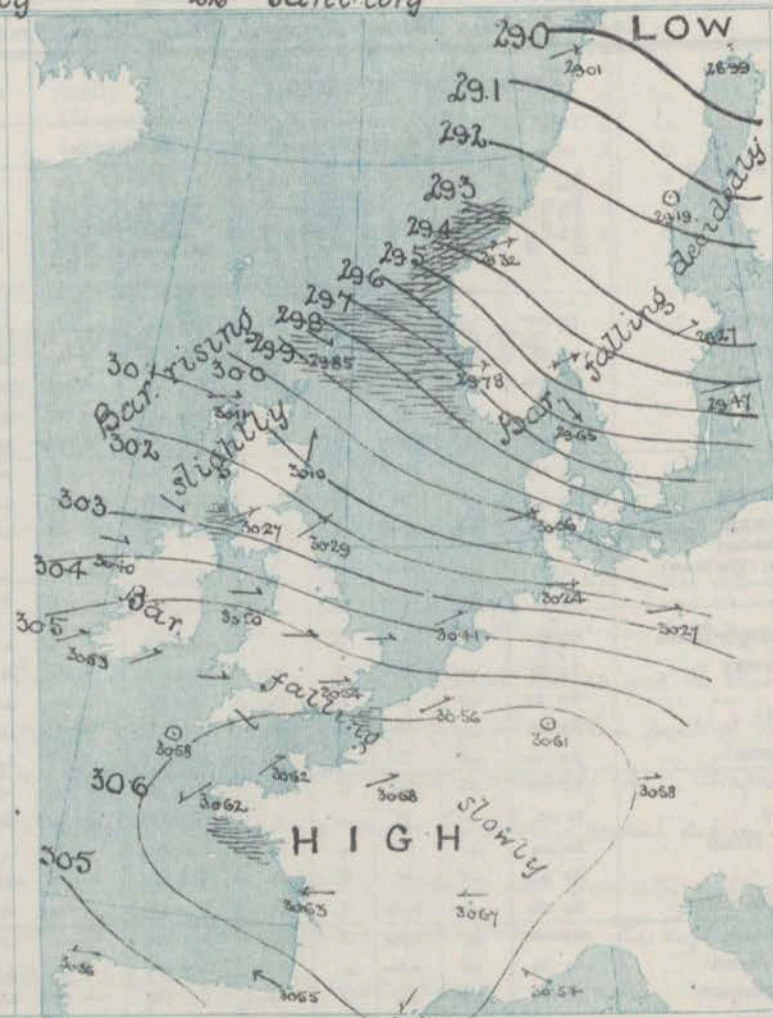
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.918
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.853
Roche's Point	29.883
Pembroke	29.914
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.984



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.

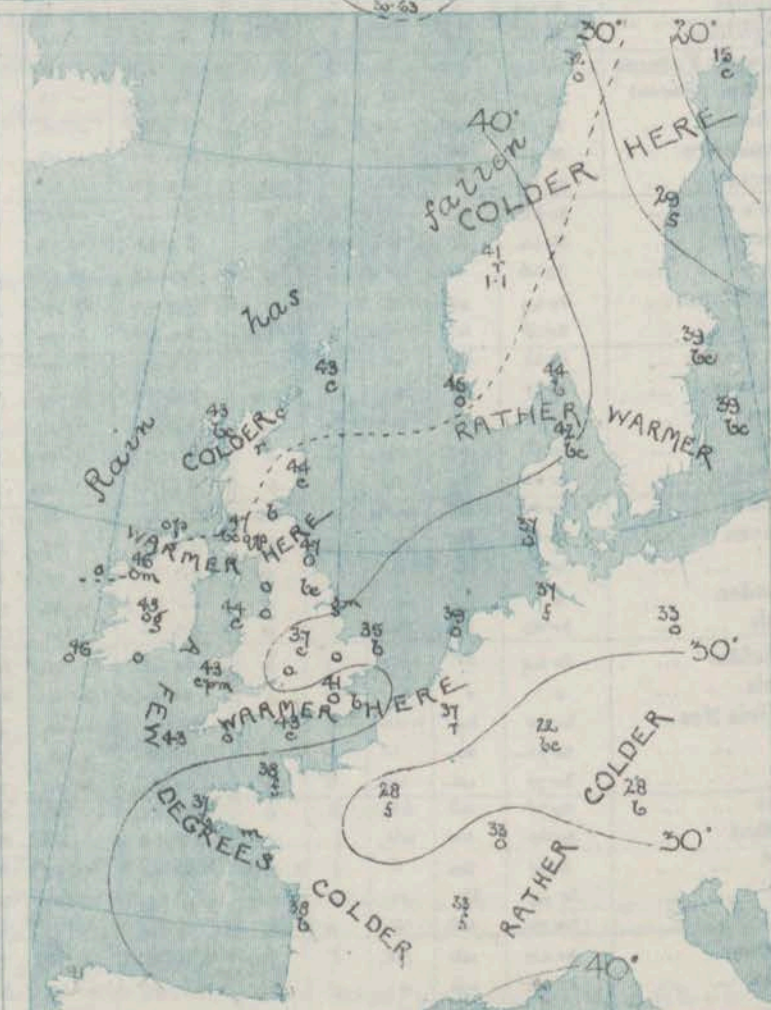
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.6	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.5	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	40.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	41.1	42.0	5.68
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins and upwards over Tranez.
Lowest, 29.5 ins at Fæder (Christiania Fjord), 29.0 ins at Haparanda.
Gradients moderate over our islands, rather steep over Denmark and south of Norway.
Barometer falling a little except in extreme north-west and over Lapland and inland.

TEMPERATURE

Highest, 47° at Belmullet, 46° at Valencia, 43° at Leiller, Stormoray, and Lumburgh Head.
Lowest, 15° at Haparanda, 22° at Wiesbaden, 28° at Paris and Munich, 29° at Herösand, 33° at Berlin, Belfast and Lyons.
The thermometer has risen decidedly in the Netherlands and south-east of our islands since yesterday.

WIND

N^W (NW to SW) over the whole of North-western Europe; blowing hard in Norway, moderate or light elsewhere.
E⁴ and moderate over the southern and south-western parts of France.

WEATHER

Time in the north-east and east, cloudy or overcast elsewhere foggy at some Continental stations. Very few stations report any rain.

SEA

Rather rough in extreme north and north-west and at Cape Fris Vez, slight or smooth elsewhere

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone recently observed in the south-west has moved south-eastwards to France and pressure appears to be giving way a little over the British Islands generally. Although there is no indication at present of any important depression in our neighbourhood, the distribution of pressure is very favourable for the advance of such systems from the Atlantic.

FORECASTS

for the 24 hours ending at NOON on 23rd January 1887.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	W ^{ly} and SW ^{ly} winds, dull, not settled.		6	SCOTLAND WEST	Same as N ^o . 0.	
1	SCOTLAND EAST	----- D ^o ----- D ^o -----		7	ENGLAND N. W.	Same as N ^o . 0.	
2	ENGLAND N. E.	W ^{ly} and SW ^{ly} winds, moderate or light, cloudy, fair uncertain later.		8	ENGLAND S. W.	SW ^{ly} breezes, light, fair to unsettled.	
3	ENGLAND EAST	----- D ^o ----- D ^o -----		9	IRELAND NORTH	SW ^{ly} winds moderate, cloudy and showery at first doubtful later.	
4	MIDLAND COUNTIES	----- D ^o ----- D ^o -----		10	IRELAND SOUTH	D ^o	D ^o
5	ENGLAND SOUTH	W ^{ly} breezes, light, fair as a whole.		WARNINGS		None issued.	

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudeenaes ...	29.99	45	44	W 8	of	6	Holyhead ...	30.60	45	44	SW 2	o	2
Sumburgh Head ...	29.83	45	44	W 6	r	6	Valencia ...	30.65	49	47	SW 4	o	4
Stornoway ...	30.06	49	48	SW 6	befg	5	Scilly ...	30.70	48	45	NNW 1	c	4
Aberdeen ...	30.18	46	43	WSW 1	b	1	Dungeness ...	30.60	41	40	W 3	c	3
Shields ...	30.41	46	42	WSW 4	c	2	London ...	30.63	43	41	W 2	bef	*
Ardrossan ...	30.42	46	44	WSW 7	o	5	Yarmouth ...	30.54	41	40	W 4	b	3
Malin Head ...	30.29	44	43	WSW 4	o	4	Jersey ...	30.69	45	43	W 1	bc	1
Mullaghmore ...	30.49	47	45	SW 4	cm	3	Rocheport ...	30.67	43	41	ENE 5	o	2
Belmullet ...	30.52	47	46	SW 4	o	*							

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

The Continental reports for yesterday showed that a long anticyclonic band extended from Ireland, England and France across Central Europe to Southern Russia, the central portion of the system in which readings exceeded 30.7 ins: being situated over the northern part of France and the Bay of Biscay. The lowest pressures 28.7 ins: and less were found in a large and deep depression which was passing across Lapland, but relatively low pressures were reported in the extreme south of Spain. Moderate breezes from E or NE were prevalent over France and Southern Europe, but in all the more northern countries the wind was SW or W, and in Finland and the west of Norway it blew with the force of a gale. Rain was falling at some of the Norwegian stations, but elsewhere the weather though dull locally was generally fair. Temperature had fallen a little over France and Southern Europe but risen slightly in the north; readings ranged from 50° and upwards over Algeria and the shores of the Mediterranean to 5° or less over Central and Southern Russia. The highest individual readings were 55° at Nemours, 54° at Malta, 53° at Oran, 51° at Algiers, and 50° at Brindisi and Ispah; the lowest were -5° at Chartlow, -3° at Kiev, 0° just at Kischineff, and +2° at Hermannstadt.

In the course of the day the large depression in the far north travelled slowly eastward, but little change was observed either in the prevailing winds or weather.

GENERAL REMARKS ON THE WEATHER FOR 24 hours ended 8 am JAN: 20th

The reports for Wednesday morning showed that pressure was highest 30.5 ins: and upwards over Central and Northern Russia, but relatively high 30.3 ins: and upwards over Spain, the Bay of Biscay and the north of Algeria. The lowest readings 29.2 ins: and less were found in a depression the centre of which lay a little to the westward of the Shetlands. Strong S or SW winds prevailed over the British Isles, and fresh S or SE breezes on the eastern shores of the North Sea, but over Central and Southern Europe the wind was light and very variable. Rain was falling in several parts of our Islands as well as in the west of France, and dull weather prevailed over Russia and the shores of the Baltic, but over the more southern countries the sky was moderately clear. Temperature had fallen several degrees in Russia, and over Germany and Spain, but risen elsewhere—rapidly over the United Kingdom. Readings ranged from 50° or above over the SW of our Islands, the south of Spain and the western part of the Mediterranean to 5° or below over E. Germany, and to several degrees below zero over Central and Northern Russia. The highest individual readings were 55° at Malta, 54° at La Calle and Perpignan and 53° at Biarritz; the lowest -13° at Archangel, -12° at Moscow, -11° at St. Petersburg, -2° at Kuopio, and +3° at Riga and Breslau.

In the course of the day the depression off the Shetlands travelled away in a NE direction, and in the rear of this and some "V-shaped" disturbances which appeared over England a brisk rise of the barometer with NW winds and colder weather set in on our extreme N. and W. coasts.

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 23rd JANUARY.

1887.

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

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 2.)	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 ..	28.98	4	Z	0	b		29.28	+ .29	11	10	- 4	N	2	b	2	28	1	-
Hernösand ...	29.17	32	NW	6	b		29.59	+ .40	30	26	+ 1	NN	6	b	2	34	28	-
Stockholm ...	29.42	35	WNW	6	b		29.68	+ .41	29	26	- 10	NN	4	b	2	45	?	-
Visby ...	29.46	39	WNW	6	b		29.66	+ .19	35	31	- 4	NN	8	b	2	43	?	-
Bodö ...	29.03	32	NW	3	c		29.51	+ .50	34	31	+ 2	WNW	6	c	3	?	27	-
Christiansund...	29.59	30	WNW	9	s		29.98	+ .40	31	29	- 10	W	6	s	7	?	28	-
Skudesnaes ...	29.99	41	WNW	7	b		30.15	+ .37	38	36	- 7	NW	4	c	2	45	?	-
Christiania Fjord (Fjord)	29.71	40	WSW	4	b		30.00	+ .53	36	32	- 8	WNW	4	b	4	45	36	-
Skagen (The Scaw)	29.83	37	NW	6	b		30.02	+ .37	37	35	- 5	NNW	3	b	2	43	36	-
Faßö ...	30.12	36	W	4	b		30.25	+ .19	35	33	- 2	W	4	c	2	37	34	-
BRITISH ISLANDS.																		
Sumburgh Head	30.02	41	WNW	5	b		30.14	+ .29	40	39	- 3	W	1	o	4	43	36	0.04
Stornoway ...	30.23	36	W	3	b		30.15	+ .04	47	47	+ 4	SSW	4	r	3	47	34	0.08
Wick ...	30.18	38	NW	2	a		30.12	+ .04	41	41	+ 1	S	1	c	1	42	38	0.12
Nairn ...	30.22	42	W	1	c		30.17	+ .07	45	44	+ 1	SW	3	c	2	45	39	0.01
Aberdeen...	30.25	41	WNW	1	a		30.23	+ .03	40	39	- 4	WSW	1	c	1	47	39	0.02
Leith ...	30.29	48	W	4	c		30.31	+ .09	45	44	- 2	W	3	b	2	49	43	-
Shields ...	30.30	46	W	4	c		30.33	+ .09	39	38	- 8	SW	1	m	2	48	37	-
Spurn Head ...	30.39	41	W	2	b		30.44	+ .05	39	38	- 2	W	2	ogm	2	43	36	-
York ...	30.41	43	W	3	b		30.43	+ .03	40	39	- 3	SW	1	o	2	44	37	-
Loughborough	30.47	41	WSW	3	o		30.47	+ .00	40	39	+ 3	WSW	3	og	2	44	37	-
Ardsrossan ...	30.31	47	SW	4	op		30.34	+ .07	44	44	- 3	SW	2	o	2	49	43	0.01
Malin Head ...	30.30	45	W	3	od		30.31	+ .02	43	43	- 2	SSW	2	og	3	47	40	0.01
Mullaghmore ...	30.39	46	SW	4	om		30.36	- .03	43	42	- 3	SW	4	o	2	49	42	-
Belmullet ...	30.39	47	WSW	4	o		30.34	- .06	44	44	- 3	SSW	4	o	2	48	40	0.02
Donaghadee ...	30.35	45	W	4	b		30.39	- .01	43	42	- 2	SW	4	o	2	50	41	-
Barrow-in-Farress	30.40	43	SW	3	o		30.42	+ .01	42	41	- 1	SW	2	o	2	45	41	-
Liverpool (Midston)	30.46	44	WSW	3	o		30.45	- .02	43	41	+ 2	SW	1	o	2	46	41	-
Holyhead ...	30.47	45	SW	2	o		30.44	- .06	44	43	0	SW	1	o	2	46	44	-
Parsonstown ...	30.46	45	SSW	1	o		30.44	- .07	40	39	- 3	Z	0	om	2	47	39	-
Valencia ...	30.46	47	SSW	3	og		30.37	- .16	46	44	0	SE	3	com	4	49	43	0.02
Roche's Point...	30.47	46	WSW	2	o		30.43	- .18	45	44	0	S	3	o	3	47	42	-
Pembroke ...	30.51	44	WSW	3	r		30.48	- .08	40	39	- 3	SE	3	c	2	45	40	0.04
Scilly ...	30.51	45	ENE	2	o		30.46	- .12	44	42	+ 1	ESE	6	o	4	48	42	-
Prawle Point ...	30.55	42	NW	1	o		30.48	- .13	42	40	+ 1	ENE	1	o	1	43	38	-
Jersey ...	30.57	35	SSE	1	of		30.49	- .13	36	35	- 2	ESE	3	ogm	3	42	34	-
Hurst Castle ...	30.52	43	W	3	o		30.51	- .08	41	40	- 2	NNE	1	o	0	46	33	-
Dungeness ...	30.48	42	W	3	b		30.45	- .07	41	39	0	Z	0	o	1	44	39	-
London ...	30.51	43	WNW	3	o		30.51	- .03	40	38	- 1	Z	0	ofg	2	44	40	-
Oxford ...	30.51	42	W	1	og		30.51	- .04	39	38	0	W	1	og	2	43	39	-
Cambridge ...	30.49	41	Z	0	a		30.50	- .01	39	38	0	SW	1	o	2	43	36	-
Yarmouth ...	30.43	40	WNW	3	o		30.46	- .01	37	36	+ 2	WNW	2	b	3	41	34	-
Cuxhaven ...	30.32	37	W	5	b		30.34	+ .10	37	37	0	W	3	b	2	37	33	-
Berlin ...	30.18	37	WNW	6	r		30.22	- .05	37	36	+ 4	WNW	5	b	2	37	?	-
Wiesbaden ...	*	*	*	*	*		30.52	- .09	35	33	+ 13	Z	0	o	2	36	?	-
Munich ...	30.47	37	W	3	b		30.49	- .09	24	23	- 4	SW	4	c	2	39	23	-
FRANCE & NETHERLANDS.																		
The Helder ...	*	*	*	*	*		30.52	- .04	35	35	- 2	SW	3	r	2	38	35	0.04
Brussels ...	*	*	*	*	*		30.48	- .07	41	39	0	S	1	m	2	43	?	-
Cape Gris Nez...	30.45	41	W	4	o		30.48	- .07	41	39	0	S	1	m	2	43	?	-
Paris ...	30.63	29	S	1	o		30.55	- .13	29	29	+ 1	SE	3	o	2	30	28	-
Brest ...	30.57	36	SE	7	b		30.45	- .17	33	33	- 4	SSW	3	m	3	48	32	-
Lorient ...	30.54	36	ESE	4	m		30.46	- .16	32	31	- 2	E	3	m	2	43	30	-
Rochefort ...	30.56	37	ESE	4	f		30.49	- .14	34	34	- 4	E	5	f	2	39	48	-
Belfort ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*
Lyons ...	30.63	32	NE	1	f		30.55	- .12	29	29	- 4	ENE	1	f	2	34	28	-
Nice ...	30.46	42	E	4	b		30.37	- .17	41	37	- 1	E	3	b	1	42	26	-
Perpignan ...	30.55	40	Z	0	b		30.46	- .17	38	37	+ 2	WSW	3	b	2	47	36	-
Biarritz ...	30.44	46	E	7	b		30.36	- .22	42	40	+ 3	ESE	5	b	1	50	36	-
Corunna ...	*	*	*	*	*		30.29	- .07	50	47	+ 9	E	1	b	4	51	39	-
Lisbon ...	30.17	53	SSE	5	o		30.31	+ .19	46	46	0	NNE	3	b	2	55	46	0.26

For Explanation of Columns, see p. 4.

WEATHER

for 8 a.m. on

Sunday

CHARTS

23rd January

1887.

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;

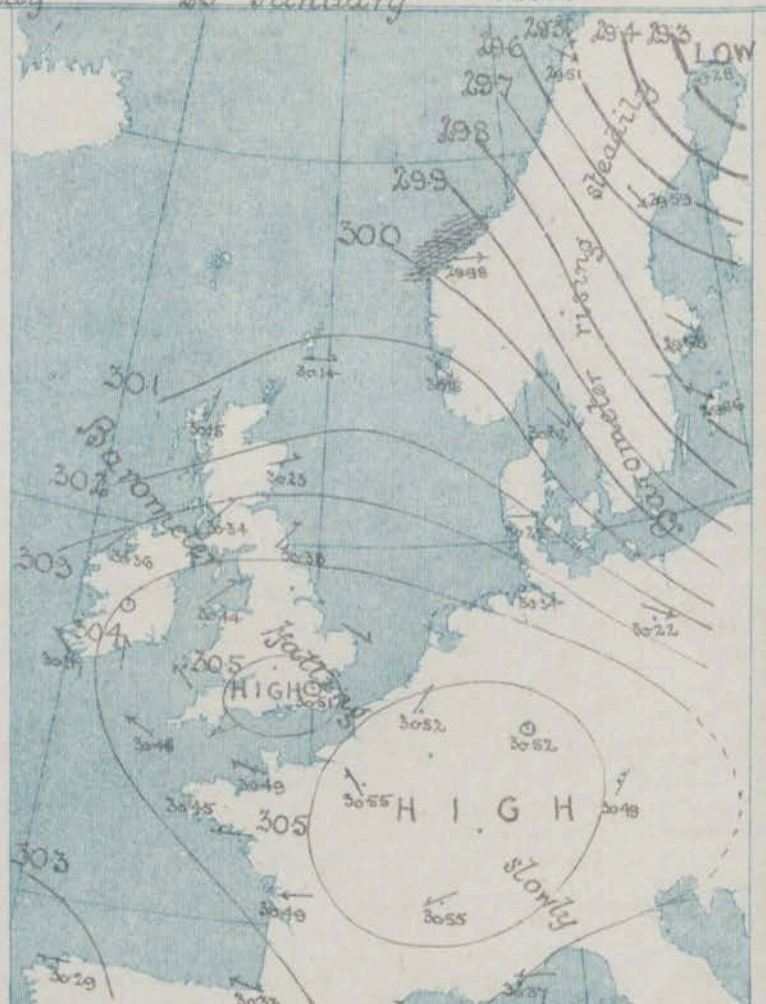
Sea Disturbance—where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.904
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.09
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.1	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	45.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	48.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.00

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, 30.4 in: to 30.5 in: and upwards, over France, the southern parts of England, and east of Ireland. Lowest, 29.3 in: at the northern extremity of the Gulf of Bothnia, 30.3 in: at Cronna. Gradients slight over Western Europe, moderate and decreasing over Scandinavia. Barometer falling a little decidedly at our SW stations.
TEMPERATURE	Highest, 50° at Cronna, 46° at Valencia and 42° at Stornoway. Lowest, 29° over Central France and at Helsingfors, 11° at Haparanda. Thermometer inclined to rise at stations on the south-western coast of our Islands and Spanish Peninsula.
WIND	Light to moderate E. in France — SE. on our southwestern coast. Light SW and W in the north and east. Strong NW over Scandinavia. Calms prevail in London and over the home countries.
WEATHER	Fair in the north-east and east and in Sweden, dull and gloomy elsewhere, with a little rain at a few stations, and snow at Christiansund.
SEA	Fog is prevalent in several parts of France. Moderate to smooth, except at Christiansund, where a high sea is reported.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over France appears to be spreading northwards over the Baltic and eastern shores of the North Sea. This, with decreasing pressure at the western stations seems likely to produce S. winds over our Islands, which will probably increase in force at the western stations.

FORECASTS

for the 24 hours ending at NOON on 24th JAN: 1887.

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.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skadeanæs ...	29.90	42	40	WNW	6	c	5	Holyhead ...	30.47	45	44	SW	2	0	2
Sumburgh Head ...	29.95	43	39	WNW	6	c	6	Valencia ...	30.50	48	47	SEW	4	c	4
Stornoway ...	30.21	43	41	W	3	bc	2	Scilly ...	30.53	47	44	SE	1	0	4
Aberdeen ...	30.19	45	43	WN	1	ap	1	Dungeness ...	30.52	42	41	WNW	4	b	3
Shields ...	30.30	48	45	SW	4	c	2	London ...	30.52	44	41	WNW	1	f	3
Ardrossan ...	30.29	49	47	SW	4	c	4	Yarmouth ...	30.43	41	40	WNW	4	om	3
Malin Head ...	30.30	47	46	W	3	o	3	Jersey ...	30.58	36	36	SE	1	f	1
Mullaghmore ...	30.32	48	47	SW	5	om	4	Rocheport ...	30.62	39	38	ESE	4	f	2
Belmullet ...	30.39	48	47	WSW	5	c	*								

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

The reports for yesterday showed that the anticyclone whose centre had been recently observed off the southwest coast of the British Isles had moved south-eastwards to France, and that the large depression, the southern portion of which reached Lapland and the north of Norway on Friday, was apparently crossing shallower, while moving slowly in an E³ direction. Pressure at 8 a.m. varied from about 30.7 mm. over Central France to 28.7 mm. over Finland and Lapland. W¹ winds, of little strength prevailed over Northern Europe, accompanied by fair weather, and a decided decrease of temperature, while over the Central and more southern parts of the Continent the wind was light or moderate and the weather fair, but hazy. In the British Islands moderate to strong W and SW winds were accompanied by dry weather, but very cloudy skies, at all but the eastern stations. Temperature varied from rather above 50° over the southern portions of Spain and the Mediterranean to a little below the freezing point over the northern portions of Central France, and to many degrees below that value over Russia, where, however, the thermometer had risen considerably. The highest individual readings were 57° at San Fernando, 56° at Alicante, 52° at Cagliari, 51° at Palma, and 46° at Valencia and Mullaghmore; the lowest 7° at Kharkov, 12° at Nicolaïeff, 15° at Haparanda, 16° at Odessa, 17° at Ålesborg, 28° at St. Petersburg and Paris.

During the day the depression in the north moved south-eastwards, and the weather over France became colder, while that over the British Isles underwent very little change.

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 24th 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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ..	29.69	4	Z	0	b	29.76	+ .48	8	8	- 3	Z	0	0	*	12	1	Ino.	
Hernösand ...	30.00	27	NW	4	b	30.04	+ .45	24	23	- 6	Z	0	0	*	34	?	-	
Stockholm ...	30.08	27	NW	4	bc	30.21	+ .53	22	20	- 7	W	4	0	*	35	?	-	
Wisby ...	29.99	34	N	6	b	30.21	+ .55	33	32	- 2	W	4	0	*	37	23	-	
Bodö ...	29.81	31	WSW	4	c	29.47	- .04	39	38	+ 5	WSW	4	0	*	37	23	-	
Christiansund...	30.09	36	WSW	4	0	29.88	- .10	46	42	+ 15	WSW	6	0	3	39	28	0.20	
Skudesnaes ...	30.24	41	SE	4	A	30.18	+ .03	42	42	+ 4	SE	6	0	6	46	?	0.24	
Christiania Fjord (Færder)	30.21	34	WNW	2	b	30.18	+ .18	35	34	- 1	WSW	2	0	4	43	37	-	
Skagen (The Scaw)	30.24	35	NW	1	b	30.26	+ .24	36	35	- 1	W	2	0	2	36	34	-	
Fanö ...	30.20	34	WSW	3	b	30.36	+ .11	35	35	0	W	2	0	1	37	30	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.06	45	W	2	A	29.91	- .23	43	40	+ 3	WSW	2	0	3	45	38	0.04	
Stornoway ...	30.12	45	SSW	6	m	29.86	- .29	43	42	- 4	S	6	0	6	47	41	0.03	
Wick ...	30.15	42	S	1	b	29.92	- .20	38	36	- 3	S	1	0	1	49	35	-	
Nairn ...	30.18	44	WSW	1	b	29.95	- .22	40	38	- 5	Z	0	0	0	50	37	-	
Aberdeen...	30.21	41	WSW	1	b	30.03	- .20	38	37	- 2	SSW	4	0	1	50	35	-	
Leith ...	30.29	42	WSW	3	0	30.10	- .21	40	38	- 5	S	1	0	*	47	39	-	
Shields ...	30.35	44	W	1	0	30.16	- .22	38	37	- 1	SW	3	0	2	46	36	-	
Spurn Head ...	30.42	40	SSW	2	m	30.25	- .19	36	36	- 3	S	5	0	3	42	35	-	
York ...	30.44	42	S	1	0	30.23	- .20	36	35	- 4	SE	2	0	*	43	35	-	
Loughborough	30.44	40	SW	1	0	30.25	- .22	37	36	- 3	S	3	0	*	43	36	-	
Ardrossan ...	30.30	44	SSW	2	om	30.07	- .27	42	40	- 2	SE	4	0	3	44	40	0.01	
Malin Head ...	30.25	41	SSW	3	0	29.92	- .39	42	40	- 1	SSW	6	0	4	43	40	-	
Mullaghmore ...	30.25	44	S	5	om	29.92	- .44	44	42	+ 1	SE	5	0	4	44	41	-	
Belmullet ...	30.21	44	S	5	0	29.81	- .53	45	44	+ 1	SE	5	0	*	45	43	-	
Donaghadee ...	30.36	41	SW	2	0	30.07	- .32	43	42	0	SSW	5	0	3	43	39	-	
Barrow-in-Furness	30.38	41	S	2	n	30.17	- .25	37	35	- 5	S	4	0	*	43	36	0.03	
Liverpool (Bidston)	30.40	41	SE	1	0	30.18	- .27	35	34	- 8	SE	2	0	3	45	35	-	
Holyhead ...	30.39	40	S	2	m	30.14	- .30	40	38	- 4	SE	3	0	2	45	39	0.03	
Parsonstown ...	30.30	42	SSW	1	0	30.08	- .36	46	45	+ 6	S	1	0	*	46	39	-	
Valencia ...	30.24	46	SE	4	0	29.86	- .51	51	50	+ 5	SE	7	0	6	51	44	0.06	
Roche's Point...	30.29	45	SE	4	0	30.01	- .42	48	47	+ 3	S	7	0	5	48	43	-	
Pembroke ...	30.37	40	SE	3	0	30.16	- .32	41	40	+ 1	S	5	0	5	42	38	-	
Scilly ...	30.33	43	SE	4	0	30.13	- .28	49	48	+ 5	S	6	0	5	49	41	-	
Prawle Point ...	30.40	41	E	4	c	30.24	- .24	40	39	- 2	S	2	0	2	43	37	-	
Jersey ...	30.41	35	SE	3	b	30.28	- .21	32	32	- 4	SE	1	0	1	36	32	-	
Hurst Castle ...	30.44	41	W	1	om	30.28	- .13	38	37	- 3	SE	3	0	0	43	36	-	
Dungeness ...	30.46	41	S	4	0	30.29	- .19	37	36	- 4	S	3	0	3	43	36	-	
London ...	30.46	40	ESE	1	om	30.30	- .21	36	35	- 4	SE	2	0	*	41	35	-	
Oxford ...	30.44	38	SE	1	0	30.28	- .23	37	35	- 2	SE	2	0	*	40	37	-	
Cambridge ...	30.46	39	SW	1	0	30.28	- .22	36	35	- 3	S	1	0	*	42	34	-	
Yarmouth ...	30.46	40	W	1	e	30.32	- .14	38	37	+ 1	SSW	4	0	4	42	36	-	
Cuxhaven ...	30.41	37	W	1	f	30.41	+ .07	38	37	+ 1	W	1	0	*	39	35	-	
Berlin ...	30.37	37	WNW	2	c	30.46	+ .24	34	33	- 3	WNW	2	0	*	41	32	-	
Wiesbaden ...	*	*	*	*	*	30.49	- .03	35	34	0	E	1	0	*	37	33	-	
Munich ...	30.50	31	Z	0	0	30.45	- .04	30	30	+ 6	E	3	0	*	37	?	-	
FRANCE & NETHERLANDS.																		
The Helder ...	*	*	*	*	*	30.34	- .18	33	33	- 2	S	1	0	*	38	32	-	
Brussels ...	*	*	*	*	*	30.34	- .18	35	35	- 6	SE	1	0	1	43	36	-	
Cape Gris Nez...	?	39	SE	1	m	30.30	- .18	35	35	- 6	SE	1	0	*	34	?	-	
Paris ...	30.50	33	NE	3	0	30.34	- .21	30	30	+ 1	SE	3	0	*	48	32	-	
Brest ...	30.37	36	SE	3	f	30.23	- .22	40	39	+ 7	SE	5	0	4	48	32	-	
Lorient ...	30.39	36	E	3	m	30.29	- .17	33	33	+ 1	E	1	0	2	36	28	-	
Rochefort ...	30.37	35	E	4	m	30.32	- .17	32	32	- 2	ESE	5	0	2	38	27	-	
Belfort ...	30.41	27	E	3	c	30.32	- .17	28	27	- 2	E	3	0	*	?	23	-	
Lyons ...	30.49	28	N	1	0	30.39	- .16	27	27	- 2	SE	1	0	*	31	26	-	
Nice ...	30.34	45	E	1	b	30.32	- .05	41	40	- 1	E	3	0	2	52	37	0.20	
Perpignan ...	30.36	40	Z	0	b	30.37	- .12	35	34	- 3	WSW	1	0	*	48	29	-	
Biarritz ...	30.32	54	ESE	5	b	30.27	- .10	48	46	+ 6	SSW	1	0	0	61	41	-	
SUL.																		
Corunna ...	*	*	*	*	*	30.30	- .01	47	46	+ 1	NE	4	0	2	54	46	-	
Lisbon ...	30.30	54	SE	3	0	30.30	- .01	47	46	+ 1	NE	4	0	2	54	46	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 24th January, 1887.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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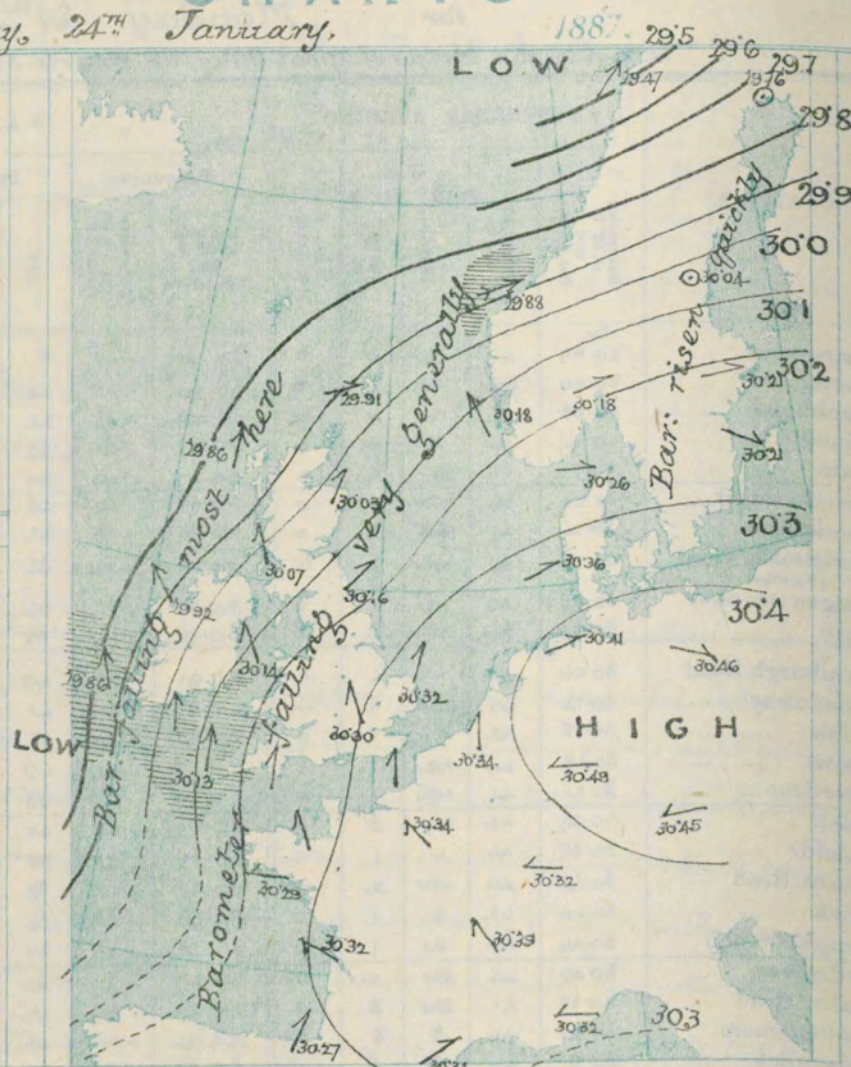
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at 8 a.m. for the month of January
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for the month of January

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
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Stornoway.....	43.1	34.2	38.9	37.6	5.17
Wick.....	42.4	33.4	37.9	36.5	1.97
Nairn.....	42.4	33.3	36.9	35.3	2.02
Aberdeen.....	42.6	34.1	37.3	35.7	2.34
Leith.....	45.3	34.0	38.2	37.2	1.98
Shields.....	43.3	35.1	37.8	36.6	1.79
York.....	43.6	33.5	36.9	35.9	1.88
Ardrossan.....	45.2	37.1	40.1	38.4	4.53
Donaghadee.....	41.5	36.3	39.7	38.8	3.03
Holyhead.....	46.3	39.3	41.7	40.3	3.40
Liverpool.....	44.1	35.8	38.9	37.3	2.23
Valencia.....	49.8	40.7	44.1	43.3	6.79
Roche's Point.....	47.8	39.9	43.1	42.0	5.63
Pembroke.....	46.1	40.3	42.8	41.3	3.92
Scilly.....	49.3	43.6	46.5	45.0	3.93
Hurst Castle.....	45.4	37.5	40.7	40.0	3.10
Dover.....	43.9	37.0	39.6	38.4	2.68
LONDON.....	45.2	34.6	38.1	37.1	2.20
Oxford.....	43.9	34.6	37.6	36.6	2.83
Cambridge.....	44.3	32.9	36.5	35.7	1.57
Yarmouth.....	42.2	34.6	37.8	37.1	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, 30.3 in.: to 30.4 in.: and upwards over France and Germany.
Lowest, 29.86 in. at Valencia and Stormoway, 29.81 in. at Belmullet.
Gradients slight in east, becoming steep in west. Barometer falling decidedly in W. of Ireland.

TEMPERATURE

Highest, 51° at Valencia, 49° at Sully, 48° at Biarritz and 46° at Christiansund.
Lowest, 8° F at Haparanda, 21° at Stockholm, 27° at Lyons, 30° at Paris, and 36° in London.
The thermometer is rising in the east. At Biarritz a maximum of 61° was recorded yesterday afternoon.

WIND

S^W over the British Isles, - light in the east, strong to a gale in the west.
E, light, over France, SW, strong to a gale in Norway.
In the southwest of Ireland the wind is increasing.

WEATHER

Very dull and gloomy in our Islands (excepting a few localities) with a tendency to rain in the west.
Sun and bright over Sweden, foggy in Germany and France.

SEA

Rather rough (and apparently rising) in southwest, and at Stormoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present distribution of pressure the decided fall of the barometer in the far west points to the advance of a large depression towards our north-west coast from the Atlantic. This will probably produce S^W gales in the west and north, with rain and milder weather generally.

FORECASTS

For the 24 hours ending at NOON on 25th JANUARY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 { SCOTLAND NORTH	S ^W winds, increasing to a gale, with rain.	* 6 { SCOTLAND WEST	S ^W gales and rain.
* 1 { SCOTLAND EAST	-----D°-----D°-----D°-----	* 7 { ENGLAND N. W.	-----D°-----D°-----D°-----
2 { ENGLAND N. E.	SW ^W and S ^W winds, light to fresh, fair as a whole.	8 { ENGLAND S. W.	S ^W and SW ^W winds, increasing; fair to squally and showery.
3 { ENGLAND EAST	-----D°-----D°-----D°-----	* 9 { IRELAND NORTH	S ^W and SW ^W gales and rain.
1 { MIDLAND COUNTIES	Same as N°5	* 10 { IRELAND SOUTH	-----D°-----D°-----D°-----
5 { ENGLAND SOUTH	S ^W winds, freshening decidedly; milder, changeable, fine to rainy.	WARNINGS	
		The south cone was hoisted last evening in districts 0, 6, 7, 9 and 10, and this morning in district 1. An asterisk is inserted against those districts in which the signals are now flying.	

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.14	43	40	NW 2	bc	4	Holyhead ...						
Sumburgh Head							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	30.67	36	36	E 4	f	2
Belmullet ...						*							

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

The reports for yesterday showed that the large depression recently observed over Finland had moved southeastwards to Central Russia and that in its rear the barometer was rising rapidly over Scandinavia and Denmark. A large high-pressure system lay over the Mediterranean, France and the British Islands, but this was decreasing in intensity and appeared to be giving way on its western side. Thus, while W. and N. gales were blowing over the Baltic and Scandinavia with fine bright weather, the wind over the British Islands was moderate from W or SW with dull, mild weather, while that in France was light to moderate from the E. with foggy, cold weather. Two distinct areas of frost were shown, one over Northern Europe and Central Russia, the other over Central France and the west of Germany. These were separated by a broad belt of higher temperature while on the coast of Portugal as well as some parts of the Mediterranean the thermometer stood at above 50°. The highest individual readings were 53° at Palma, 54° at San Fernando and Oporto, 50° at Corunna, Malta and Brindisi, and 46° at Valencia; the lowest were 27° at Simoes, 24° at Besançon, 28° at Moscow and Warsaw, 21° at St. Petersburg 13° at Kuopio and Archangel and 7° at Meaborg.

During the day the high-pressure area over France began to spread considerably to the north-eastwards and though temperature changed very little over our islands till night it rose to 61° at Biarritz in the afternoon. In Ireland the barometer began to fall fast at night and the wind to increase from SSE and S.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 16TH TO THE 22ND JANUARY 1887.

The weather experienced over the British Islands and their neighbourhood during last week was of two distinct kinds, — (1st) cyclonic, with steep gradients for S. & S.W. winds, and (2nd) anticyclonic with gradients favourable for N. & W. winds. The first of these systems prevailed between the 16th and 19th, while the second was observed from the 20th to the 23rd, but began to show some signs of breaking up as the week closed.

During the prevalence of the first — two large depressions appeared in the west and north-west causing S. & S.W. gales — one on the 17th, and the other on the 18th. Both of them passed north-eastwards and both developed subsidiary systems as they passed off, the last one being an unusually extensive "V" shaped system the trough of which at 8 a.m. on the 20th stretched from Scandinavia across Denmark, the Netherlands and the whole of France.

During the second system the wind fell very light in the south and east and backed slowly round from NW and N on the 20th to W and SW on the 22nd. On the latter date a very large and deep depression reached Lapland from the westward, but its only effect so far as our islands were concerned was to cause some increase in the force of the W. wind, which blew a moderate gale in the Netherlands and Hebrides.

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 25th 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.	
				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.		
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.	Haparanda ..	29.49	36	SW	4	0	29.42	-34	35	33	+2	SW	2	0	*	37	-2	0.05	
	Hernösand ...	29.85	30	SW	0	0	29.71	-33	26	25	+2	SW	0	0	*	36	19	-	
	Stockholm ...	30.10	35	WSW	4	0	30.00	-21	38	36	+16	WSW	6	0	*	?	21	-	
	Wisby ...	30.22	35	W	4	0	30.18	-03	37	36	+4	W	4	0	*	37	?	-	
	Bodö ...	29.47	45	WSW	9	0	29.24	-23	42	40	+3	SW	6	0	4	?	39	0.35	
	Christiansund...	29.77	41	WSW	4	6	29.52	-36	46	41	0	SW	6	6	5	46	34	-	
	Skudesnaes ...	30.04	41	S	8	0	29.97	-21	42	41	0	S	7	0	5	43	41	-	
	Christiania Fjord (Færder)	30.11	38	SW	8	0	30.02	-16	37	36	+2	SW	6	0	4	39	?	-	
	Skagen (The Scaw)	30.22	37	WSW	2	0	30.12	-14	35	34	-1	WSW	3	0	2	37	?	-	
	Fanö ...	30.29	35	S	4	C	30.22	-14	33	33	-2	S	4	m	*	37	32	-	
BRITISH ISLANDS.	Sumburgh Head	29.68	41	SSW	4	6	29.64	-27	45	44	+2	WSW	3	0	4	46	39	0.03	
	Stornoway ...	29.54	47	S	9	6	29.55	-31	47	46	+4	S	6	0	6	48	38	0.28	
	Wick ...	29.67	42	S	5	6	29.66	-26	47	46	+9	SW	3	0	1	48	34	-	
	Nairn ...	29.69	43	SSW	3	6	29.68	-27	47	45	+7	S	1	0	1	48	36	-	
	Aberdeen...	29.88	40	SSW	4	0	29.81	-22	45	43	+7	SSW	4	0	3	45	38	0.01	
	Leith ...	29.90	42	SW	5	6	29.83	-27	47	45	+7	S	4	6	*	48	40	-	
	Shields ...	30.01	37	SSW	4	6	29.98	-18	41	40	+3	S	3	0	2	42	34	-	
	Spurn Head ...	30.14	36	SSW	4	C	30.14	-11	36	36	0	S	4	0	2	37	34	0.01	
	York ...	30.11	36	S	2	0	30.04	-19	38	36	+2	ESE	2	0	*	39	35	-	
	Loughborough	30.16	37	SSW	3	0	30.13	-12	38	38	+1	SSE	4	0	*	39	36	-	
GERMANY.	Ardrossan ...	29.85	43	SSE	6	0	29.81	-26	47	46	+5	SSE	5	0	4	47	41	0.02	
	Malin Head ...	29.65	47	S	6	0	29.60	-32	49	48	+7	S	5	0	4	49	42	-	
	Mullaghmore ...	29.69	50	S	7	0	29.58	-34	52	49	+8	S	8	0	6	52	42	-	
	Belmullet ...	29.65	49	SSW	9	0	29.54	-27	50	50	+5	SW	9	0	*	50	45	0.16	
	Donaghadee ...	29.87	46	SW	6	0	29.79	-28	48	48	+5	SSW	8	0	5	48	41	0.01	
	Barrow-in-Furness	30.04	38	SE	4	0	29.97	-20	40	40	+3	SE	5	0	*	41	36	0.02	
	Liverpool (Bidston)	30.06	39	SE	4	6	30.00	-18	43	41	+8	SE	5	0	3	43	35	-	
	Holyhead ...	29.99	44	S	5	0	29.92	-22	47	46	+7	S	5	0	5	47	40	0.01	
	Parsonstown ...	29.84	48	SSW	2	C	29.75	-33	50	50	+4	S	1	0	*	51	44	0.04	
	Valencia ...	29.78	51	S	7	0	29.66	-20	53	52	+2	S	8	0	7	53	49	0.19	
FRANCE & NETHERLANDS.	Roche's Point...	29.88	48	SSW	6	CP	29.79	-22	50	49	+2	SSW	7	0	5	50	46	-	
	Pembroke ...	30.01	44	S	5	0	29.96	-20	48	47	+7	S	5	0	5	48	41	0.02	
	Scilly ...	30.02	50	SSE	6	6	29.96	-17	51	50	+2	S	6	0	5	51	49	-	
	Prawle Point ...	30.18	42	SSE	3	0	30.13	-11	48	47	+8	S	4	0	4	48	38	-	
	Jersey ...	30.20	35	S	3	0	30.22	-06	37	37	+5	SSE	3	0	3	37	32	0.03	
	Hurst Castle ...	30.22	38	S	2	0	30.20	-08	41	41	+3	SSE	3	0	0	41	36	-	
	Dungeness ...	30.25	37	SSW	4	C	30.23	-06	37	36	0	SSW	3	0	2	38	36	-	
	London ...	30.22	37	S	3	0	30.22	-08	39	37	+3	SSE	4	0	*	40	35	-	
	Oxford ...	30.19	37	SW	3	0	30.19	-09	37	36	0	SW	3	0	*	38	36	-	
	Cambridge ...	30.20	37	S	1	0	30.20	-08	37	36	+1	S	1	0	*	37	34	-	
GERMANY.	Yarmouth ...	30.21	36	SSW	8	0	30.21	-11	35	34	-3	SSW	3	0	3	39	33	-	
	Cuxhaven ...	30.38	37	S	3	F	30.28	-13	31	31	-7	S	1	0	*	?	29	-	
	Berlin ...	30.48	34	SSW	1	0	30.38	-08	28	27	-6	SSE	1	0	*	39	28	-	
	Wiesbaden ...	*	*	*	*	*	30.38	-11	31	31	-4	SE	2	0	*	36	30	-	
	Munich ...	30.35	21	E	2	m	30.39	-06	26	26	-4	W	4	0	*	34	18	-	
	FRANCE & NETHERLANDS.	The Helder ...	30.25	33	SSE	1	6	30.25		34	34		SSW	1	0	2	34	30	-
		Brussels ...	*	*	*	*	*	30.30	-04	32	31	-1	SSW	4	0	*	41	32	-
		Cape Gris Nez...	30.25	34	S	3	0	30.25	-05	31	31	-4	S	3	0	2	37	30	-
		Paris ...	30.30	31	WSW	3	0	30.35	+01	28	28	-2	S	1	0	*	38	28	-
		Brest ...	30.16	45	SSE	5	m	30.13	-10	45	45	+5	SSE	7	0	5	48	32	-
Lorient ...		30.25	40	S	1	0	30.23	-06	39	39	+6	ESE	4	0	2	?	30	-	
Rockefort ...		30.31	41	ESE	4	m	30.34	+02	37	37	+5	ESE	4	0	2	45	30	-	
Belfort ...		30.32	30	E	3	C	30.36	+04	21	20	-7	S	3	0	*	31	18	-	
Lyons ...		30.38	30	SSE	1	6	30.46	+07	26	26	-1	WSW	1	0	*	35	24	-	
Nice ...		30.36	45	E	1	6	30.49	+17	42	39	+1	E	1	0	1	50	39	-	
FRANCE & NETHERLANDS.	Perpignan ...	30.36	41	W	1	0	30.45	+11	40	39	+5	NE	1	0	*	42	25	-	
	Biarritz ...	30.24	55	NE	3	6	30.28	+01	51	46	+3	SSW	4	0	0	59	45	-	
PORTUGAL.	Corunna ...	*	*	*	*	*													
	Lisbon ...	30.24	58	SE	4	6	30.12	-18	50	47	+3	E	5	0	2	59	?	-	

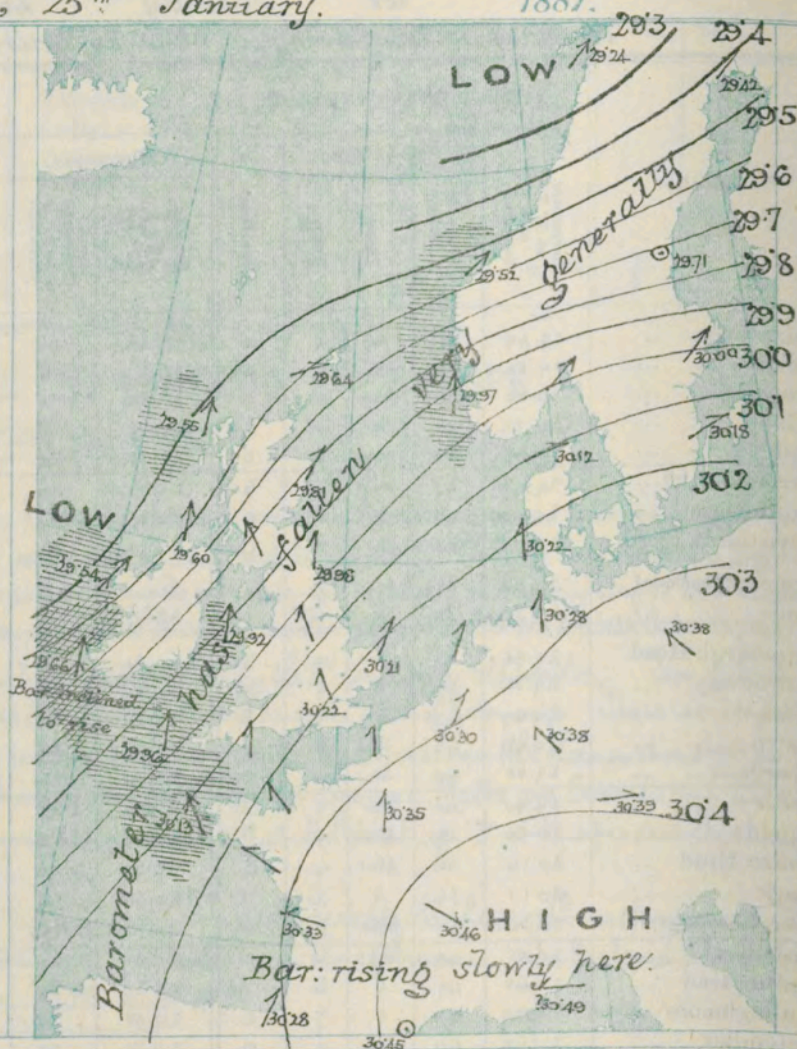
For Explanation of Columns, see p. 4.

for 8 a.m. on Tuesday, 25th January.

BAROMETER, WIND & SEA.

MEAN HEIGHT *of the* BAROMETER

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



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

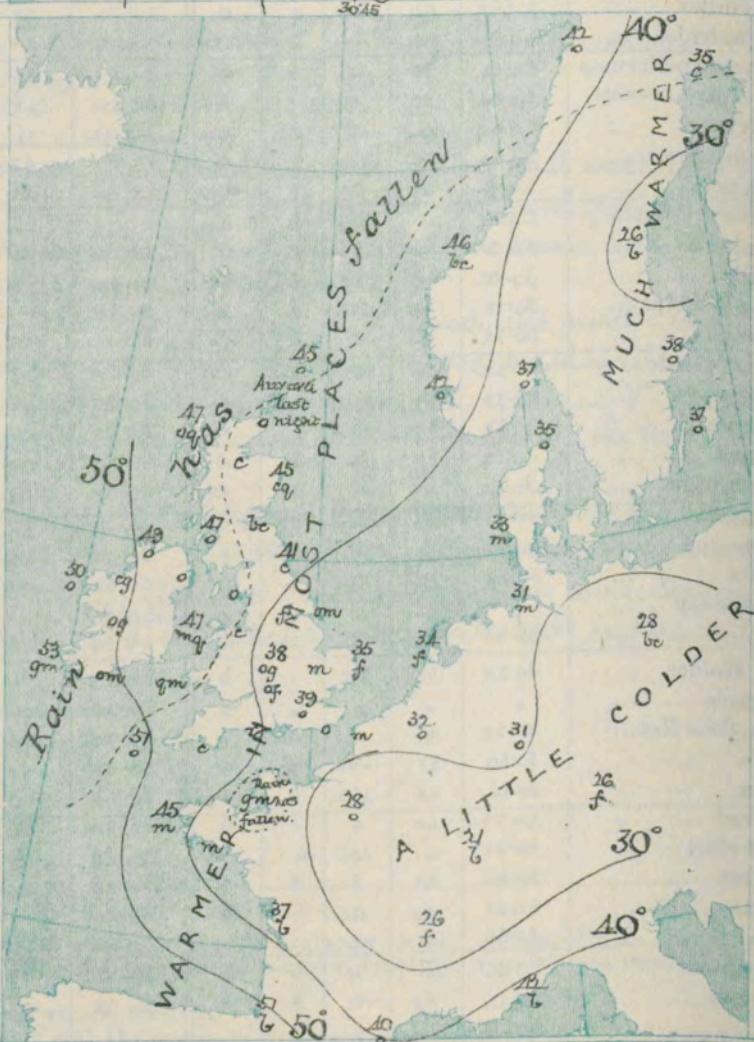
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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.....	43·0	35·4	39·2	38·3	3·66
Stornoway.....	43·1	34·2	38·9	37·6	5·17
Wick.....	42·4	33·4	37·9	36·5	1·97
Nairn.....	42·4	33·3	36·9	35·3	2·02
Aberdeen.....	42·6	34·1	37·3	35·7	2·34
Leith.....	45·3	34·0	38·2	37·2	1·98
Shields.....	43·3	35·1	37·8	36·6	1·79
York.....	43·6	33·5	36·9	35·9	1·88
Ardrossan.....	45·2	37·1	40·1	38·4	4·53
Donaghadee.....	41·5	36·3	39·7	38·8	3·03
Holyhead.....	46·3	39·3	41·7	40·3	3·49
Liverpool.....	44·4	35·8	38·9	37·3	2·23
Valencia.....	49·8	40·7	44·1	43·3	6·79
Roche's Point.....	47·8	39·9	43·1	42·0	5·68
Pembroke.....	46·1	40·3	42·8	41·3	3·92
Scilly.....	49·3	43·6	46·5	45·0	3·93
Hurst Castle.....	45·4	37·5	40·7	40·0	3·10
Dover.....	43·9	37·0	39·6	38·4	2·68
LONDON.....	45·2	34·6	38·1	37·1	2·20
Oxford.....	43·9	34·6	37·6	36·6	2·33
Cambridge.....	44·3	32·9	36·5	35·7	1·57
Yarmouth.....	42·2	34·6	37·8	37·1	2·06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. to 30.5 ins. over France and Germany.
 Lowest, 29.5 ins. at Belmullet and Stromway, 29.24 ins. at Bodø.
 Gradients slight in the south and east, moderate in the west and north.
 Barometer inclined to rise slightly at Valencia, Stromway, and in south of France, falling elsewhere.

TEMPERATURE

Highest, 53° at Valencia, 52° at Mullaghmore, 51° at Biarritz and Seilly, and 50° at several other western stations.
 Lowest, 21° at Belfast, 26° at Munich and Lyons, 28° at Paris and Berlin, and 35° at Falmouth.
 Thermometer rising gradually over the United Kingdom and west of France, rising rapidly in Sweden.

WIND

E² and SE² (moderate) in France - SW³ (strong) in Norway.
 S³ over the British Isles - moderate in the east, strong to a gale in the west.

WEATHER

Fine in Sweden, fair over other parts of the Continent, with fog in places.
 Fair on our east coast, dull in the southwest, west, and northwest, with a little rain occasionally in several places.

SEA

High off the southwest of Ireland, rough in the Irish Channel and the Minch, smooth on our southeast and east coasts, and in Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is apparently a depression off our northwest coast moving north-eastwards, and causing the S³ gale referred to above. Although this is now passing off the barometer shows very little tendency to rise even at Valencia, and the wind there still blows hard from south. There is, therefore, reason to believe that other disturbances are likely to advance towards our western coasts shortly, so that the warning signals are left flying on all our western and northern coasts.

In the east southerly winds with fair and milder weather are likely to prevail at present.

FORECASTS

For the 24 hours ending at NOON on 26TH JAN^Y 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 { SCOTLAND NORTH	S ² winds, strong at times; squally, showery.	* 6 { SCOTLAND WEST	S ² winds, strong, a gale in several places; showery, squally.
* 1 { SCOTLAND EAST	-----D°-----D°-----D°-----	* 7 { ENGLAND N. W.	-----D°-----D°-----D°-----
2 { ENGLAND N. E.	Same as N° 5.	* 8 { ENGLAND S. W.	-----D°-----D°-----D°-----
3 { ENGLAND EAST	S ² breezes, moderate or light; fair, mild.	* 9 { IRELAND NORTH	-----D°-----D°-----D°-----
4 { MIDLAND COUNTIES	Same as N° 5.	* 10 { IRELAND SOUTH	-----D°-----D°-----D°-----
5 { ENGLAND SOUTH	S ² winds, moderate to fresh; fair as a whole; milder.	WARNINGS	
		The south cone is still flying in districts 0, 1, 6, 7, 8, 9, 10. An asterisk is inserted against those districts in which the signals are now flying.	

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.13	42	41	S 6	o f	5	Holyhead ...	30.06	42	41	S 4	o q m	3
Sumburgh Head	29.82	42	40	SW 3	o	3	Valencia ...	29.81	51	50	S 8	c	6
Stornoway ...	29.70	44	43	S 8	q m	7	Scilly ...	30.07	51	50	SSE 7	c	5
Aberdeen ...	29.93	40	38	SSW 4	c	1	Dungeness ...	30.24	38	37	SSW 3	o	2
Shields ...	30.07	39	38	S 3	o	2	London ...	30.24	40	38	S 3	o m	*
Ardrossan ...	29.94	43	41	SSE 4	o	3	Yarmouth ...	30.25	38	37	SSW 4	o q	4
Malin Head ...	29.70	48	45	S 6	o	4	Jersey ...	30.23	33	33	SSE 2	m	2
Mullaghmore ...	29.72	51	47	SSE 7	c	6	Rochefort ...	30.31	37	37	ESSE 4	m	2
Belmullet ...	29.68	49	47	SW 8	o p	*							

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

The reports for yesterday morning showed that the weather over the greater part of Europe was under the influence of an anticyclonic system the main portion of which extended from Denmark and the Baltic across Central Europe to Spain, Italy, and Algeria. The lowest pressures were found respectively over Central Russia, the north of Scandinavia, and the extreme west of our Islands. The wind was S¹ or SE¹ over the British Islands and France, but SW¹ or W¹ in Scandinavia, and NW¹ or N¹ over the Baltic and Russia. Over Germany, Austria, and Southern Europe, light variable breezes were reported. The weather was fair generally, but dull over the greater part of our Islands, with slight rain in one or two places. Temperature had risen in the west of the United Kingdom as well as in Norway and Italy, but fallen elsewhere; readings ranged from 50° and upwards in the southwest of Ireland, the extreme south of Italy and the north of Algeria to 32° or below over Central France, and to 15° or below over Northern Russia. The highest individual readings were 57° at Oran, 53° at Algiers, 52° at Malta, and 51° at Valencia Island, Bilbao and Brindisi; the lowest were 8° at Haparanda and Kuopio, 9° at Uleaborg, 13° at Helsingfors, 14° at St. Petersburg, and 15° at Moscow.

In the course of the day the large depression shifted the Irish and Scotch coasts in a northerly direction, and the wind rose to a gale from the S¹ in the extreme west and north of our Islands, with rain in many places. Elsewhere no important change was observed.

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 26th 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 ..	29.25	35	SW	6	b		29.30	- .12	30	28	- .5	W	2	o	*		37	?	-
Hernösand ...	29.71	36	SSW	2	o		29.48	- .23	38	36	+ .12	SSW	2	bc	*		39	19	-
Stockholm ...	30.05	36	S	4	o		29.88	- .12	36	35	- .2	SSW	6	o	*		?	34	-
Wisby ...	30.17	35	W	4	o		30.11	- .07	35	34	- .2	WSW	4	o	*		39	34	-
Bodö ...	29.25	29	SW	9	r		29.23	- .01	32	30	- .10	ENE	2	o	1		?	32	0.08
Christiansund...	29.54	41	WSW	2	r		29.30	- .22	46	44	o	WSW	9	r	6		46	39	0.35
Skadesnaes ...	29.95	42	S	8	r		29.88	- .09	47	45	+ .5	SSW	6	r	6		?	?	0.35
Christiania Fjord (Fierder)	30.02	38	SW	6	f		29.89	- .13	39	39	+ .2	SSW	6	f	4		?	37	-
Skagen (The Scaw)	30.14	35	WSW	2	o		30.03	- .09	38	37	+ .3	W	4	o	2		?	34	-
Faö ...	30.27	34	SW	4	f		30.21	- .01	34	34	+ .1	SW	4	b	*		34	32	-
BRITISH ISLANDS.																			
Sumburgh Head	29.56	47	SSW	3	o		29.59	- .05	48	47	+ .3	WSW	4	o	5		49	45	0.28
Stornoway ...	29.55	50	SSW	8	rg		29.71	+ .16	48	48	+ .1	SSW	5	a	6		50	45	0.38
Wick ...	29.62	48	SSW	5	o		29.75	+ .09	50	48	+ .3	W	1	e	1		50	45	-
Nairn ...	29.66	54	SW	2	c		29.73	+ .05	52	50	+ .5	SW	4	c	2		56	45	-
Aberdeen...	29.79	47	SSW	4	a		29.86	+ .05	47	45	+ .2	SSW	5	o	3		50	44	-
Leith ...	29.84	50	SW	5	c		29.92	+ .09	51	47	+ .4	SW	5	cg	*		53	47	-
Shields ...	29.97	48	SW	1	m		30.04	+ .06	47	43	+ .6	SW	4	c	2		51	40	-
Spurn Head ...	30.12	44	S	4	c		30.21	+ .07	39	38	+ .3	S	4	bcw	2		44	35	-
York ...	30.07	46	SSE	1	o		30.16	+ .12	40	38	+ .2	SSE	1	c	*		46	37	-
Loughborough	30.12	46	SSE	3	o		30.21	+ .08	39	38	+ .1	NNE	1	cw	*		47	37	-
Ardrossan ...	29.83	47	SSE	5	om		29.98	+ .17	46	46	- .1	S	5	rmw	4		48	46	0.11
Malin Head ...	29.67	51	SSW	4	om		29.85	+ .25	49	49	o	SSW	4	o	3		52	?	?
Mullaghmore ...	29.68	54	S	7	o		29.85	+ .27	52	50	o	SSW	6	om	5		56	48	-
Belmullet ...	29.65	52	SSW	9	o		29.84	+ .30	49	49	- .1	SSW	2	o	*		52	49	0.16
Donaghadee ...	29.84	48	SSW	6	o		29.96	+ .17	47	47	- .1	SSW	6	o	4		49	47	-
Barrow-in-Furness	29.99	45	ESE	4	o		30.09	+ .12	42	41	+ .2	SE	4	c	*		46	40	-
Liverpool (Bidston)	30.03	48	SSE	3	bc		30.11	+ .11	44	41	+ .1	SE	3	bc	3		50	42	-
Holyhead ...	29.97	48	S	5	omg		30.07	+ .15	46	44	- .1	S	4	c	4		49	46	-
Parsonstown ...	29.82	52	S	3	o		29.96	+ .21	51	50	+ .1	SSE	1	og	*		54	48	0.07
Valencia ...	29.73	52	SSE	8	ogm		29.86	+ .20	52	52	- .1	SSE	7	rmg	6		54	50	0.48
Roche's Point...	29.85	50	SSW	6	c		29.97	+ .18	50	49	o	SSW	6	o	5		50	48	0.01
Pembroke ...	30.01	48	S	4	bc		30.12	+ .16	47	46	- .1	SSE	4	bc	5		49	46	0.02
Scilly ...	29.78	52	S	7	ogm		30.08	+ .12	50	50	- .1	S	5	c	6		54	48	-
Prawle Point ...	30.16	48	SE	2	bc		30.24	+ .11	47	46	- .1	SSE	2	o	3		50	45	-
Jersey ...	30.22	43	SE	3	b		30.29	+ .07	40	39	+ .3	S	3	brm	3		44	37	-
Hurst Castle ...	30.20	45	SSE	5	c		30.29	+ .09	44	43	+ .3	SSW	4	b	1		48	40	0.03
Dungeness ...	30.25	42	SSW	3	c		30.33	+ .10	42	41	+ .5	SSW	3	b	2		43	36	-
London ...	30.24	44	S	3	bc		30.30	+ .08	42	40	+ .3	S	2	bc	*		50	38	-
Oxford ...	30.21	44	SSE	4	b		30.27	+ .08	40	38	+ .3	SW	2	b	*		49	36	-
Cambridge ...	30.24	44	S	1	b		30.28	+ .08	37	36	o	S	1	b	*		48	30	-
Yarmouth ...	30.21	39	SSW	4	bcw		30.29	+ .08	39	38	+ .4	SSW	5	b	3		39	33	-
Cuxhaven ...	30.32	34	SW	1	bc		30.32	+ .04	34	34	+ .3	SSW	2	b	*		34	?	-
Berlin ...	30.39	31	S	1	b		30.45	+ .07	29	28	+ .1	SW	1	b	*		36	28	-
Wiesbaden ...	*	*	*	*	*		30.36	+ .18	29	28	- .2	SW	3	o	*		34	28	-
Munich ...	30.44	25	L	0	b		30.54	+ .15	23	22	- .3	NN	3	bc	*		28	22	-
FRANCE & NETHERLANDS.																			
The Helder ...	30.33	32	S	3	f		30.34	+ .09	32	32	- .2	S	1	bc	2		36	30	-
Brussels ...	*	*	*	*	*		30.41	+ .11	37	35	+ .5	SSW	1	b	*		34	32	-
Cape Gris Nez...	30.26	42	SW	4	o		30.34	+ .09	40	37	+ .9	S	4	b	3		43	30	-
Paris ...	30.28	31	E	1	f		30.43	+ .08	26	26	- .2	L	0	m	*		30	25	-
Brest ...	30.13	48	SSE	5	bc		30.19	+ .06	48	47	+ .3	SE	5	b	5		48	43	-
Lorient ...	30.20	45	ESE	4	b		30.26	+ .03	46	46	+ .7	SE	4	o	3		46	36	-
Rockefort ...	30.30	47	ESE	5	b		30.37	+ .08	42	41	+ .5	SE	7	b	2		54	36	-
Belfort ...	30.45	39	W	1	bc		30.51	+ .15	24	24	+ .3	W	3	b	*		39	17	-
Lyons ...	30.47	40	S	3	b		30.57	+ .05	36	34	+ .10	SE	1	b	*		44	?	-
Nice ...	30.52	46	E	1	o		30.59	+ .10	42	41	+ .1	E	1	o	2		54	41	-
Perpignan ...	30.40	45	E	1	b		30.44	- .01	45	42	+ .5	SE	3	b	*		51	?	-
Biarritz ...	30.28	54	E	5	b		30.28	o	55	48	+ .4	S	8	b	1		66	45	-
PORTUGAL.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.08	55	SSW	7	o		30.11	- .01	53	50	+ .3	ESE	5	o	?		57	?	0.04

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 26th January, 1887.

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.

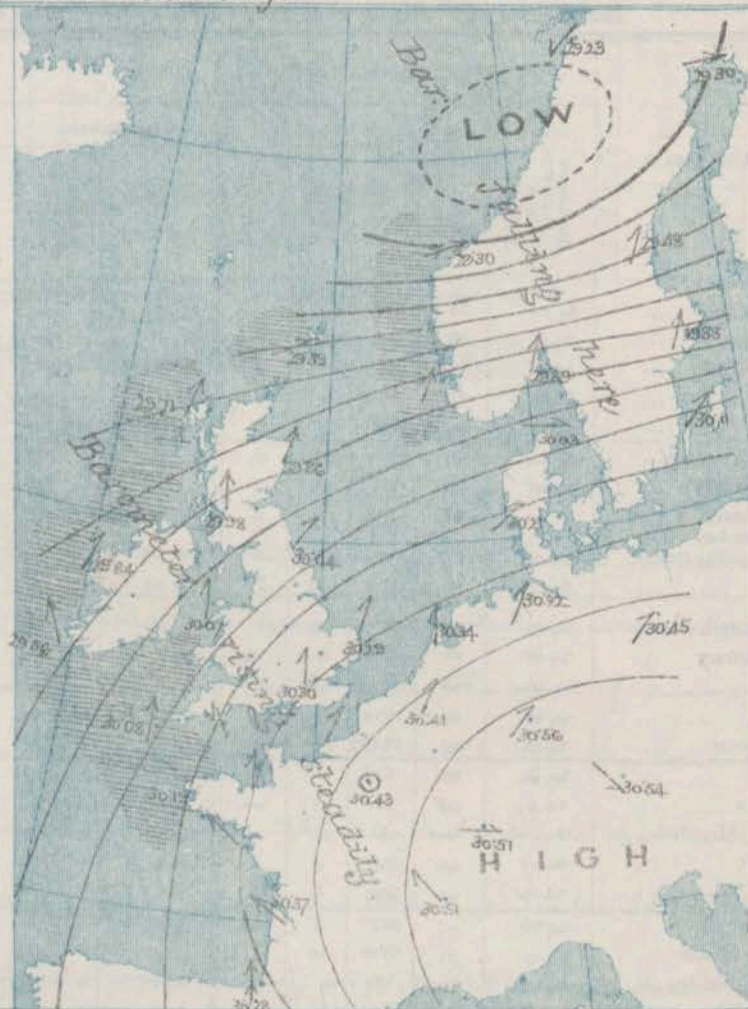
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

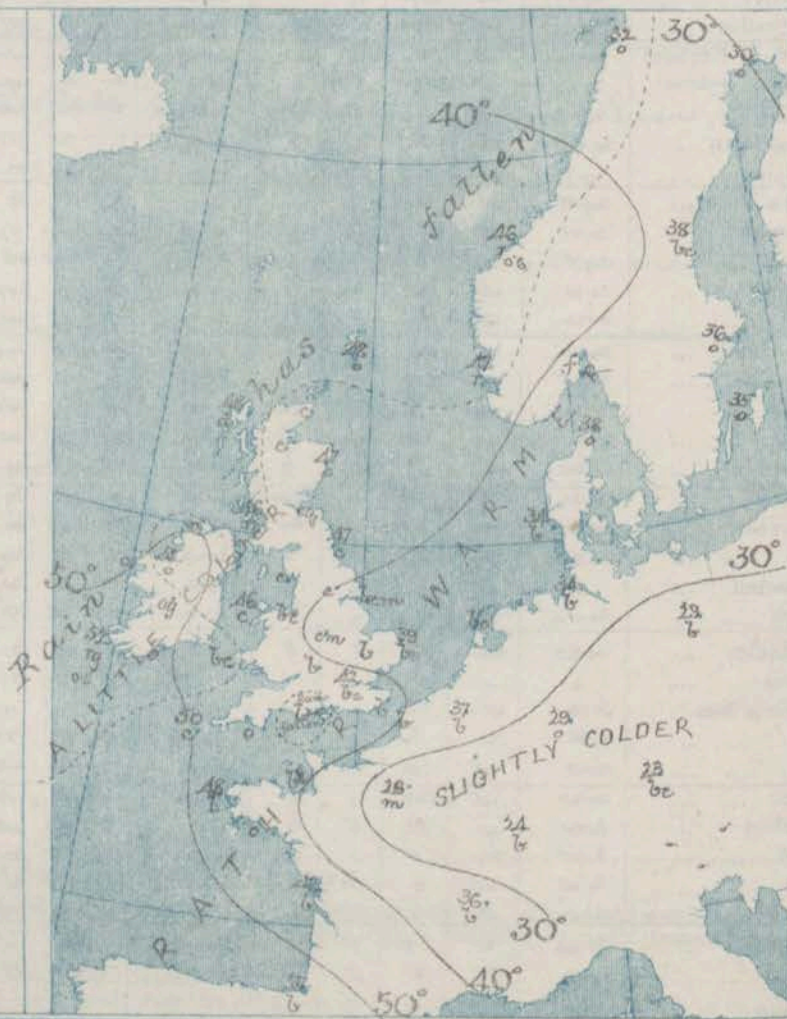
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.8	38.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	43.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	{ Highest, 30.5 ins and upwards in an anticyclone lying over Germany, Switzerland and the south of France. lowest, 29.2 ins and this in a depression lying over the north-west of Norway.
TEMPERATURE	{ Highest, 55° at Biarritz, 53° at Lisbon and 52° at Raim, Mullaghmore and Valencia. lowest, 23° at Munich, 24° at Belfort, 26° at Paris and 30° at Haparanda; lowest in our islands 37° at Cambridge.
WIND	{ SE ^{ly} in the north of England and west of France. SE ^{ly} and SW ^{ly} elsewhere; moderate in force at our eastern and southern stations, but strong in Ireland and also in the south of Scandinavia.
WEATHER	{ Dull in Ireland, Scotland and Scandinavia, with rain in the west of Norway as well as Hordaland, Ardrossan and Valencia. Fair or fine in all other localities.
SEA	{ Rough or rather so on our western and extreme northern coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression which was moving outside our extreme north-western coasts yesterday has since travelled north-eastwards to the west of Norway, and the barometer has risen at all but the Scandinavian stations.

At Valencia the barometer is reported to be still rising steadily, but as the wind there remains strong from SSE, it is probable that other depressions are not far from the Irish coasts.

FORECASTS

for the 24 hours ending at NOON on 27th January 1887.

DISTRICTS.

FORECASTS.

0 { SCOTLAND NORTH	SW ^{ly} winds, moderate or fresh; cloudy, some rain.
1 { SCOTLAND EAST D° D°
2 { ENGLAND N.E.	S ^{ly} and SW ^{ly} winds, moderate, fair generally.
3 { ENGLAND EAST	Same as N° 5.
4 { MIDLAND COUNTIES	Same as N° 5.
5 { ENGLAND SOUTH	S ^{ly} winds, light or moderate, fine generally.

DISTRICTS.

FORECASTS.

6 { SCOTLAND WEST	S ^{ly} winds, fresh or strong; cloudy, some rain.
7 { ENGLAND N.W.	SE ^{ly} and S ^{ly} winds, fresh or strong, fair to cloudy, and some rain.
8 { ENGLAND S.W. D° D°
9 { IRELAND NORTH	S ^{ly} winds strong, dull, some rain.
10 { IRELAND SOUTH D° D°

WARNINGS

The S. cone was lowered last evening in districts 1 and 5 to 10, and this morning in district 0.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.99	42	42	S 8	of	5	Holyhead ...	29.94	48	47	S 5	mq	5
Sumburgh Head	29.59	45	44	SSW 4	r	4	Valencia ...	29.69	52	51	SSE 9	om	7
Stornoway ...	29.30	49	49	S 8	ad	7	Scilly ...	29.99	53	51	S 6	c	5
Aberdeen ...	29.79	45	44	S 5	odp	3	Dungeness ...	30.25	40	41	SSW 4	c	3
Shields ...	29.93	45	44	SSW 5	c	2	London ...	30.22	50	46	SSE 4	bc	*
Ardrossan ...	29.30	47	47	SSE 5	o	4	Yarmouth ...	30.21	38	37	SSW 4	cf	3
Malin Head ...	29.65	51	50	SSW 4	o	3	Jersey ...	30.22	42	41	SE 3	bc	3
Mullaghmore ...	29.66	55	52	S 7	o	6	Rocheport ...	30.22	57	49	SE 4	b	2
Belmullet ...	29.62	52	50	SW 6	o	*							

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

The Continental Reports have not yet 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.

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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.		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.)		Weather.	Max.		Min.	
	Inch.	°				Inch.	Inch.	°	°	°				°	°	Inch.		
SCANDINAVIA.																		
Haparanda ...	29.31	24	NW	2	bc	29.79	+49	24	22	-6	NW	4	bc	36	21	0.08		
Hernösand ...	29.61	37	NW	8	b	30.01	+53	25	25	-13	SW	2	b	46	?	-		
Stockholm ...	29.73	42	W	6	o	30.08	+20	33	31	-3	W	2	b	45	?	-		
Wisby ...	29.87	41	WSW	6	o	30.06	-05	32	37	+3	W	0	b	44	32	-		
Bodö ...	29.54	35	NW	3	o	29.93	+70	33	29	+1	ESE	1	c	?	28	-		
Christiansund...	29.80	41	WSW	8	b	30.05	+75	40	36	-6	SW	3	c	5	36	0.63		
Skudesnaes ...	30.00	46	W	4	h	30.13	+25	44	44	-3	SSE	4	f	5	?	-		
Christiania Fjord (Færder)	29.85	41	SW	8	b	30.11	+22	39	38	0	WSW	2	b	41	37	-		
Skagen (The Scaw)	29.99	41	NW	5	b	30.14	+11	39	38	+1	WNW	5	o	45	37	-		
Fanö ...	30.22	36	WSW	4	b	30.32	+11	37	37	+3	WSW	4	m	39	34	-		
BRITISH ISLANDS.																		
Sumburgh Head	29.91	45	W	0	f	29.88	+29	46	45	-2	S	2	o	49	42	0.03		
Stornoway ...	29.92	46	W	0	bc	29.79	+08	50	49	+2	S	7	oyp	6	50	0.15		
Wick ...	29.96	48	SE	1	c	29.90	+15	48	46	-2	SSW	4	bc	1	52	-		
Nairn ...	29.98	51	WSW	2	c	29.91	+18	51	48	-1	WSW	1	bc	1	54	-		
Aberdeen...	30.05	48	SW	1	b	30.07	+21	46	45	-1	SW	2	b	1	52	-		
Leith ...	30.07	51	SW	4	c	30.06	+14	52	47	+1	SW	4	c	5	54	-		
Shields ...	30.14	52	SW	3	c	30.21	+17	37	37	-10	SW	3	cm	2	52	-		
Spurn Head ...	30.27	42	S	2	bc	30.31	+10	36	36	-3	S	2	fur	2	42	-		
York ...	30.20	46	S	1	bc	30.29	+13	37	37	-3	S	1	f	5	48	-		
Loughborough	30.29	43	SSE	3	c	30.32	+11	40	40	+1	SSW	2	og	5	51	-		
ARDROSSAN ...	30.04	47	SSW	4	o	30.08	+10	47	45	+1	S	4	p	3	48	0.02		
Malin Head ...	29.93	51	SSW	3	om	29.88	+03	50	49	+1	S	3	om	3	52	-		
Mullaghmore ...	29.93	53	SSW	6	o	29.89	+04	52	50	0	S	7	oyp	6	55	-		
Bellinlet ...	29.90	51	SSE	2	h	29.88	+04	48	47	-1	SSW	4	n	5	52	0.34		
Donaghadee ...	30.06	48	SW	6	o	30.07	+11	46	46	-1	SSW	8	o	6	49	-		
GERMANY.																		
Barrow-in-Farness	30.19	43	E	3	o	30.22	+13	39	39	-3	SE	5	f	5	45	-		
Liverpool (Bidston)	30.22	47	SSE	3	bc	30.24	+13	38	38	-6	ESE	5	om	4	50	-		
Holyhead ...	30.16	49	E	3	b	30.19	+12	47	44	+1	SSE	2	ew	2	50	-		
Parsonstown ...	30.04	52	SSE	3	o	30.03	+07	49	47	-2	SSE	2	c	5	52	-		
Valencia ...	29.96	52	SSE	8	om	29.95	+09	51	51	-1	SSE	8	am	6	54	0.45		
Roche's Point...	30.04	50	S	6	c	30.07	+10	49	47	-1	S	6	c	5	51	0.01		
Pembroke ...	30.21	47	SSE	4	bc	30.24	+12	45	44	-2	ESE	4	o	5	49	0.01		
Scilly ...	30.18	50	SSE	6	ef	30.19	+11	50	50	0	SE	5	ow	6	54	0.01		
Prawle Point ...	30.31	45	SSE	2	o	30.31	+07	46	45	-1	SSE	1	bw	3	48	-		
Jersey ...	30.34	44	SE	3	om	30.35	+06	41	40	+1	SE	3	bmur	3	47	0.01		
FRANCE & NETHERLANDS.																		
Hurst Castle ...	30.35	43	SE	2	b	30.35	+06	35	34	+9	ESE	3	mur	1	47	-		
Dungeness ...	30.34	44	SW	3	bc	30.36	+03	42	41	0	SSW	3	bw	3	47	-		
London ...	30.35	42	S	2	b	30.38	+08	34	34	-8	W	0	f	5	52	-		
Oxford ...	30.36	42	SW	2	o	30.37	+10	36	36	-4	S	1	f	5	43	-		
Cambridge ...	30.33	41	S	1	b	30.36	+08	34	33	-3	S	1	m	5	52	-		
Yarmouth ...	30.31	42	SSW	1	bc	30.36	+07	35	35	-4	SSW	2	f	8	47	0.01		
Cuxhaven ...	30.35	39	SW	1	b	30.37	+05	35	35	+1	WSW	2	m	5	38	-		
Berlin ...	30.45	34	SW	1	c	30.42	-03	38	35	+9	W	4	b	5	38	-		
Wiesbaden ...	*	*	*	*	*	30.59	+03	26	26	-3	W	0	f	5	34	-		
Munich ...	30.53	27	W	0	b	30.56	+02	19	19	-4	SW	3	b	5	39	-		
ITALY.																		
The Helder ...	30.38	38	SSW	4	b	30.44	+10	34	34	+2	SSW	1	b	2	41	-		
Brussels ...	*	*	*	*	*	30.45	+04	34	33	-3	S	1	f	5	46	-		
Cape Gris Nez...	30.38	42	SSW	5	b	30.39	+05	41	37	+1	S	4	b	2	50	-		
Paris ...	30.46	40	S	1	b	30.45	+02	35	35	+9	S	1	m	5	48	-		
Brest ...	30.27	46	SE	5	b	30.25	+06	45	44	-3	SE	5	o	6	50	-		
Lorient ...	30.36	46	SSE	5	b	30.32	+06	43	43	-3	ESE	4	bc	5	50	-		
Rocheport ...	30.41	48	WSW	4	b	30.38	+01	40	39	-2	SE	5	c	2	54	-		
Belfort ...	30.47	36	W	1	b	30.50	-01	19	18	-5	W	3	b	5	41	-		
Lyons ...	30.52	44	S	4	b	30.52	+01	33	31	-3	N	1	b	5	50	-		
Nice ...	30.58	46	E	1	o	30.57	-02	41	37	-2	E	3	b	2	52	-		
Perpignan ...	30.45	48	W	0	b	30.44	00	41	40	-4	N	1	o	5	60	-		
Biarritz ...	30.26	54	S	7	bc	30.30	+02	51	43	-4	S	5	bc	2	59	-		
SPAIN.																		
Corunna ...	*	*	*	*	*	30.17	+07	55	49	-1	SE	4	o	5	63	-		
Lisbon ...	30.15	37	ESE	7	o	30.19	+08	51	45	-2	E	7	o	6	59	-		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on

Thursday, 27th January,

1887.

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.

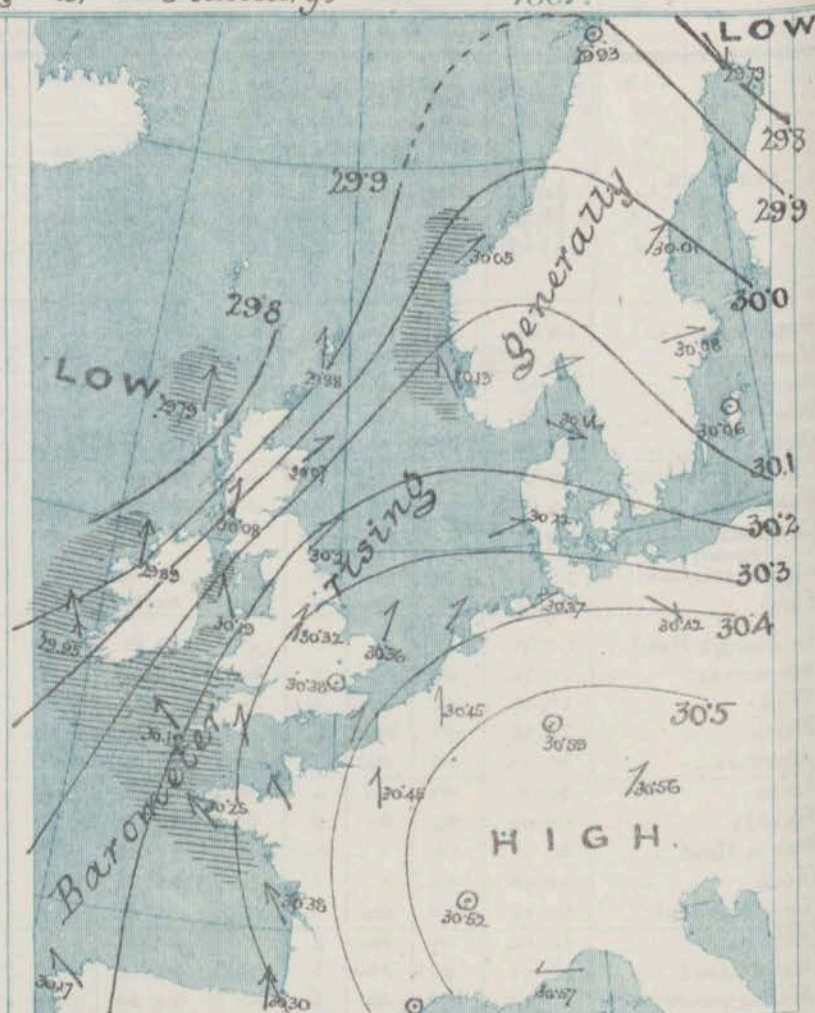
Sea Disturbance — where considerable is shown thus

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Bumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.954



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.

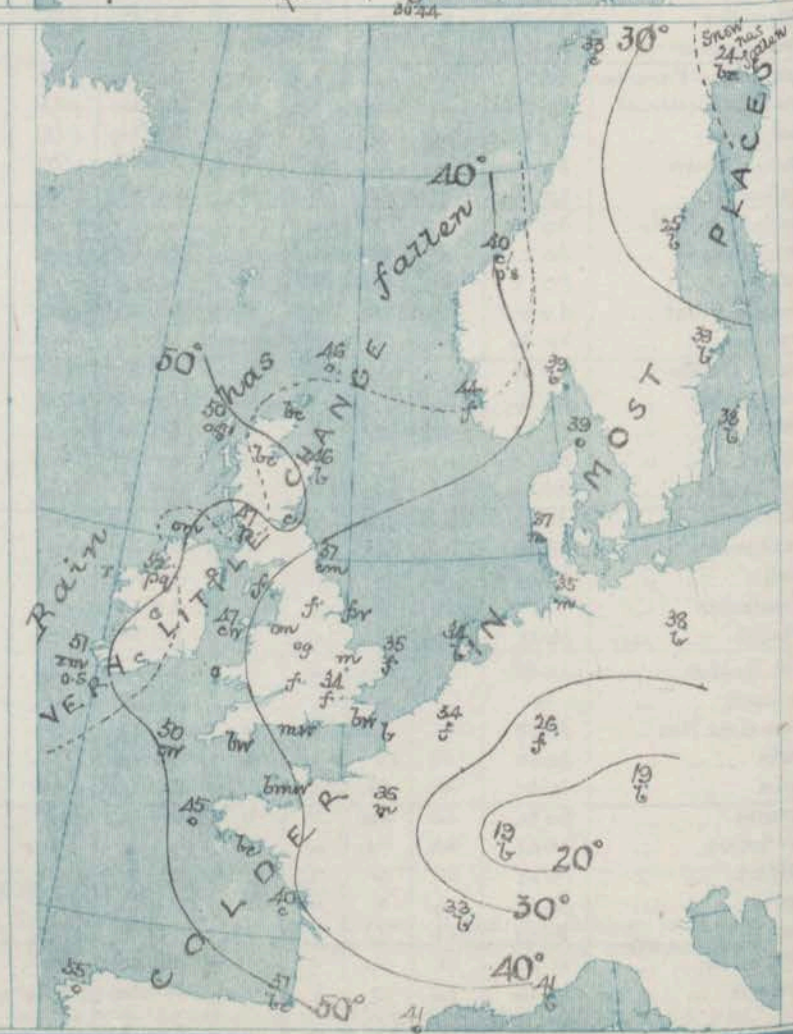
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	
Bumburgh Head	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	41.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.93
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.85
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.06

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in.; to 30.6 in.; over Germany and the east of France. Lowest, 29.8 in.; off the NW. coast of our islands and also over Finland. Gradients are moderate in the NW. slight elsewhere, except over Central Europe, where they appear to be almost nil. Barometer is apparently rising generally.
TEMPERATURE	Highest, 55° at Conna, 52° at Leith, 51° at Havre, Valencia, Biarritz and Lisbon, and 50° at Scilly, Malin H., and Hornswoy. Lowest, 19° at Munich and Belfast, 24° at Haparanda, 25° at Helsingfors, 34° in London, and 35° at Paris. Thermometer has fallen decidedly except at our western and northwestern stations.
WIND	SE ³ to S ³ over the British Isles — light in the east, strong to a gale in the west. SE ³ and moderate over France and Spain, SW to W over Scandinavia, (Denmark and North Germany).
WEATHER	Fine and bright over the Baltic, Germany, and the east of France, very foggy over England and the NE. of France, cloudy or overcast at most of the NW and W stations, raining in the extreme west of Ireland. A good deal of rain has fallen in the latter district and the NW of Norway, and a measurable amount of dew in the S of England and at Jersey.
SEA	Rough in the NW. W. and SW. moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The high pressure area over Germany and France appears to be spreading in a northerly and westerly direction, so that unless any new disturbance should be approaching our western coasts (and of this there is at present no indication) the cold foggy weather over England is likely to become more decided, while in Ireland the S³ gale will probably lull shortly and the temperature fall a few degrees. In Scotland also the weather will probably become much colder during the next twenty-four hours.

FORECASTS

For the 24 hours ending at NOON on 28th JANUARY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ³ winds, strong to moderate; some rain at times.	6 SCOTLAND WEST	SE ³ to SW ³ winds, strong to moderate, rain at times.
1 SCOTLAND EAST	S ³ and SW ³ winds, moderate or light; fine, hazy.	7 ENGLAND N. W.	D° — D° — D°
2 ENGLAND N. E.	D° — D° — D°	8 ENGLAND S. W.	SE ³ breezes, moderate; fair, hazy.
3 ENGLAND EAST	Same as N° 5	* 9 IRELAND NORTH	S ³ or SW ³ winds, moderating; changeable, some showers.
4 MIDLAND COUNTIES	Same as N° 5.	* 10 IRELAND SOUTH	D° — D° — D°
5 ENGLAND SOUTH	SE ³ or S ³ winds and calms; cold, foggy & gloomy, especially inland.	WARNINGS	The south cone was hoisted yesterday afternoon in districts 9 and 10. An asterisk is inserted against those districts in which signals are not flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.89	46	45	WSW 6	0 f	6	Holyhead ...	30.15	49	47	S 3	bc	3
Sumburgh Head ...	29.79	45	45	W 2	1	5	Valencia ...	29.92	53	52	SSW 8	om	4
Stornoway ...	29.87	49	48	SSW 14	0	4	Scilly ...	30.16	52	51	SSW 5	c	5
Aberdeen ...	29.95	50	48	SSW 3	bc	2	Dungeness ...	30.34	47	44	SW 4	bc	3
Shields ...	30.08	51	47	SW 2	0	2	London ...	30.32	52	48	S 3	b	*
Ardrossan ...	30.02	47	46	SSW 4	0	3	Yarmouth ...	30.30	47	44	S 2	bc	2
Malin Head ...	29.91	51	51	SSW 2	0	2	Jersey ...	30.31	46	45	SE 2	b	3
Mullaghmore ...	29.92	55	52	SSW 5	0	3	Rochefort ...	30.40	?	48	SE 7	b	2
Belmullet ...	29.88	52	52	SSW 2	0 d	*							

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

The reports for yesterday showed that pressure was highest over the Mediterranean and the whole of South-eastern Europe, lowest to the northward of the White Sea and to the westward of the British Isles. Gradients were moderate over Western and Northern Europe, very slight elsewhere. The winds reported were consequently SE³ to S³ at the western stations, and SW³ to W³ in the north, the latter blowing rather strongly in some parts of Scandinavia. As a rule, however, the wind was light to moderate in force, while over Central and South-eastern Europe, ^(and the weather was fair almost everywhere) variable airs and calms prevailed. Temperature was much lower over Austria-Hungary and the southwest of Russia than elsewhere, while it was highest (50° and upwards) on the Atlantic coast and over the south-eastern parts of the Mediterranean. The highest individual readings were 57° at Oporto, 56° at San Fernando and Corunna, 54° at Palma, Langunaire and Malta, 52° at Cagliari, Valencia (Ireland), and Kairi, 51° at Leth and 50° at Kelly; the lowest, 8° F. at Hermannstadt, 16° at Moscow, 13° at Budapesth, 21° at Kiev and Carlsruhe, 24° at Belfast, and 30° at Haparanda.

During the day fine mild weather continued except in the extreme west of Ireland and Norway, where a good deal of rain fell; the thermometer rose to 53° or 54° in many parts of the United Kingdom during the afternoon, and to 55° at Mullaghmore.

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 28th January 1887.

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

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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ..	30.09	10	Z	0	b	29.89	+ 10	27	27	+ 3	S	2	0	*	27	10	In.	
Hernösand ...	30.18	19	Z	0	b	29.95	- 06	26	24	+ 1	Z	0	0	*	37	18	-	
Stockholm ...	30.23	30	Z	0	bc	30.13	+ 05	33	33	0	hsw	2	f	*	43	?	-	
Wisby ...	30.18	33	NNE	2	b	30.18	+ 12	36	36	- 2	hsw	4	f	*	39	28	-	
Bodö ...	29.82	32	ESE	2	o	29.51	- 42	41	39	+ 8	ESE	2	0	1	41	28	0.51	
Christiansund...	29.99	45	ESE	2	b	29.55	- 50	52	44	+ 12	SSW	6	c	5	52	?	-	
Skudesnaes ...	30.14	45	SE	6	bc	29.90	- 23	42	41	- 2	SSE	9	0	6	46	43	-	
Christiania Fjord (Færdar)	30.18	36	Z	0	b	30.07	- 04	38	37	- 1	SSW	6	m	3	?	36	-	
Skagen (The Scaw)	30.24	39	hsw	2	b	30.17	+ 03	33	32	- 6	hsw	2	0	1	41	32	-	
Fanö ...	30.38	32	SSW	2	b	30.23	- 09	33	33	- 4	SW	4	0	*	39	32	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.99	46	SSW	3	c	29.54	- 34	45	42	- 1	SSW	3	c	4	49	42	-	
Stornoway ...	29.71	48	S	7	gcp	29.63	- 16	40	38	- 10	hsw	6	b	5	50	37	0.30	
Wick ...	29.81	49	hsw	3	bc	29.72	- 18	39	38	- 9	NW	4	c	1	51	37	0.05	
Nairn ...	29.81	52	SW	1	o	29.79	- 12	44	43	- 7	hsw	4	h	3	56	42	0.13	
Aberdeen...	29.95	45	SSW	3	b	29.83	- 24	44	41	- 2	SSW	4	b	3	50	43	-	
Leith ...	29.98	49	SW	6	c	29.95	- 11	45	42	- 7	SW	5	b	*	53	44	-	
Shields ...	30.13	41	SW	2	cm	30.08	- 13	46	43	+ 9	SW	3	bc	2	48	35	-	
Spurn Head ...	30.25	38	S	3	f	30.20	- 11	42	41	+ 6	SSW	4	cp	3	44	35	0.01	
York ...	30.21	40	SSE	1	b	30.19	- 10	48	46	+ 11	hsw	2	0	*	48	37	0.01	
Loughborough	30.26	40	SE	2	b	30.24	- 08	46	44	+ 6	hsw	4	c	*	47	38	0.01	
Ardrossan ...	29.98	47	S	4	om	30.01	- 07	43	44	- 2	SSW	4	0	3	47	44	0.01	
Malin Head ...	29.85	50	SSW	3	o	29.94	+ 06	45	45	- 5	SW	3	om	3	52	43	0.21	
Mullaghmore ...	29.88	49	SW	5	o	30.02	+ 13	47	45	- 5	SW	6	cm	6	53	43	0.28	
Belmullet ...	29.86	48	SW	3	c	30.04	+ 16	49	48	+ 1	hsw	7	bc	*	49	45	0.11	
Donaghadee ...	29.99	47	SSW	8	o	30.07	- 00	43	42	- 3	SW	5	b	3	48	42	0.01	
Barrow-in-Farness	30.15	41	ESE	3	o	30.18	- 04	44	43	+ 5	SW	4	c	*	46	39	0.01	
Liverpool (Bldston)	30.17	45	ESE	3	o	30.22	- 02	48	45	+ 10	hsw	4	b	3	52	38	-	
Holyhead ...	30.12	47	S	3	c	30.23	+ 04	45	45	- 2	SW	2	b	2	48	45	0.02	
Parsonstown ...	30.00	51	S	3	c	30.19	+ 16	45	43	- 4	SW	1	c	*	54	42	0.08	
Valencia ...	30.00	50	SSW	6	o	30.24	+ 29	49	48	- 2	SSW	6	bc	6	54	46	0.44	
Roche's Point...	30.05	50	S	6	p	30.27	+ 20	43	41	- 6	hsw	1	b	5	50	42	0.25	
Pembroke ...	30.19	47	SSE	4	e	30.31	+ 07	47	46	+ 2	SW	3	bcp	4	48	45	0.08	
Scilly ...	30.18	51	S	5	o	30.35	+ 16	50	50	0	hsw	3	0	5	52	48	-	
Prawle Point ...	30.29	47	SSE	1	c	30.40	+ 09	48	48	+ 2	SW	1	m	3	50	45	-	
Jersey ...	30.30	45	SSE	3	bcm	30.42	+ 07	41	41	0	S	2	bun	2	45	40	0.01	
Hurst Castle ...	30.32	43	ESE	2	bm	30.39	+ 04	45	45	+ 10	hsw	4	SW	1	48	32	0.02	
Dungeness ...	30.32	43	SSW	2	b	30.38	+ 02	43	42	+ 1	SW	3	bw	2	49	41	0.01	
London ...	30.34	37	S	1	f	30.36	- 02	39	38	+ 5	SW	1	bft	*	43	33	0.01	
Oxford ...	30.31	39	S	2	o	30.34	- 03	42	42	+ 6	S	2	cm	*	42	35	-	
Cambridge ...	30.32	38	S	1	m	30.33	- 03	42	41	+ 8	SSW	1	c	*	43	32	-	
Yarmouth ...	30.32	37	SSW	2	f	30.32	- 04	40	39	+ 5	SW	3	bc	3	40	34	0.01	
Cuxhaven ...	30.42	38	SW	1	b	30.32	- 05	34	34	- 1	SW	2	m	*	38	32	-	
Berlin ...	30.44	41	hsw	1	o	30.45	+ 03	34	33	- 4	W	1	c	*	45	34	*	
Wiesbaden ...	*	*	*	*	*	30.56	- 03	26	26	0	SW	1	f	*	30	23	-	
Munich ...	30.53	22	SW	2	m	30.53	- 03	17	16	- 2	S	3	b	*	30	16	-	
GERMANY.																		
The Helder ...	30.37	34	S	1	b	30.33	- 11	35	35	+ 1	SW	3	f	2	43	30	-	
Brussels ...	*	*	*	*	*	30.44	- 01	38	36	+ 4	SSW	4	c	*	46	?	-	
Cape Gris Nez...	30.34	43	SW	4	b	30.39	- 00	39	39	- 2	SSW	4	m	3	46	37	-	
Paris ...	30.41	39	ESE	1	b	30.48	+ 03	29	29	- 6	SE	1	m	*	48	28	-	
Brest ...	30.28	46	SSE	4	m	30.39	+ 14	44	44	- 1	SSE	4	m	5	46	44	-	
Lorient ...	30.32	45	ESE	4	bc	30.44	+ 12	40	39	- 3	E	3	b	4	48	37	-	
Rochefort ...	30.38	49	SSE	4	b	30.47	+ 09	41	40	+ 1	SE	3	c	2	54	37	-	
Belfort ...	30.46	33	E	1	b	30.53	+ 03	21	20	+ 2	E	3	b	*	37	17	-	
Lyons ...	30.47	44	SSW	1	bc	30.55	+ 03	32	31	- 1	N	1	b	*	50	31	-	
Nice ...	30.50	48	SSE	1	bc	30.49	- 08	41	39	0	E	4	b	2	55	39	-	
Perpignan ...	30.39	49	E	1	bc	30.44	- 00	41	40	0	SE	1	bc	*	58	39	-	
Biarritz ...	30.30	54	S	4	o	30.41	+ 11	45	41	- 6	ESE	4	0	2	61	41	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.28	+ 11	46	44	- 9	?	?	bc	4	64	45	-	
Lisbon ...	30.24	52	SE	5	b	30.30	+ 11	49	47	- 2	ESE	5	c	5	57	48	-	

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

for 6 a.m. on *Friday, 28th January, 1887*

(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 W_1 \rightarrow = forces 8 to W_1
 \rightarrow = forces 5 to 7_1 \rightarrow = forces 1 to 4_1
 \odot = dead calm.

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

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

25 January

LOW

Bar. falling briskly

Bar. rising slowly

Bar. falling slowly

Barometer

Rising

HIGH somewhat

Isobars: 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5

Wind directions: indicated by arrows

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

[illegible]

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

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in. to 30.5 in. and upwards, over France and Germany. Lowest, 30.24 in. at Valencia, 29.5 in. off the Shetland Islands and west of Norway. Gradients are slight in the south, rather steep in the north. Barometer is rising in the SW. and S. falling in the north.
TEMPERATURE	Highest, 50° at Lally, 49° at Lisbon, Valencia (Ireland), and Belmullet. Lowest, 17° at Munich, 26° at Wiesbaden and Hunsdorf, 27° at Haparanda, 28° at Paris and 39° in London. The thermometer has risen decidedly over England and the west of Norway, but fallen decidedly in Ireland and Scotland.
WIND	Light SE ³ at most of the French stations, S to SW elsewhere, light in the east and south, strong in the west and north. A NW breeze is reported locally at Wick, and a SSE ³ gale at Skideanals.
WEATHER	Varies greatly - sky being quite clear in some localities; cloudy in others, with slight showers in some places, wet fog in others - notably in London. Lightning has occurred at Ardrossan, rain has again fallen in the extreme west and northwest, and a measurable amount of dew in several places.
SEA	Rough in the far west, rather so in the south-west and northwest, light or smooth in the east and south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression has advanced to the west of Norway from the westward during the past night, and a very shallow subsidiary hollow has been formed between Wick and Skideanals; these have caused the unsettled weather on our extreme western and northern coasts.

The barometer is now rising decidedly in the west and south, and should this continue the weather will shortly become less quiet over England than it has been of late.

FORECASTS

For the 24 hours ending at NOON on 29th JAN 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ² and W ² breezes, fresh; some rain at times.	6 SCOTLAND WEST.	SW ² and W ² breezes, fresh, some rain at times.
1 SCOTLAND EAST	SW ² breezes, moderate; showery to fair.	7 ENGLAND N. W.	
2 ENGLAND N. E.	-----D°-----D°-----D°-----	8 ENGLAND S. W.	Same as N°5
3 ENGLAND EAST	Same as N°5	9 IRELAND NORTH	Same as N°0
4 MIDLAND COUNTIES	Same as N°5	10 IRELAND SOUTH	Same as N°5
5 ENGLAND SOUTH	SW ² winds, light; wet mists or fogs with bright intervals.	WARNINGS	The S cone was lowered last evening in districts 9 & 10.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.16	46	45	SSW 4	af	5	Holyhead ...	30.44	48	46	S 3	c	3
Sumburgh Head ...	29.80	47	45	SSW 2	c	2	Valencia ...	29.95	54	52	S 8	om	6
Stornoway ...	29.95	42	47	S 7	cgy	6	Scilly ...	30.18	52	51	SSW 4	o	5
Aberdeen ...	30.00	47	44	SSW 2	b	1	Dungeness ...	30.23	46	44	SSW 3	b	3
Shields ...	30.13	41	40	SW 3	bem	2	London ...	30.34	43	42	S 1	cj	#
Ardrossan ...	30.04	46	46	S 4	o	4	Yarmouth ...	30.33	37	36	S 3	f	3
Malin Head ...	29.84	50	49	SSW 3	o	4	Jersey ...	30.31	44	43	SSW 3	b	3
Mullaghmore ...	29.84	52	50	S 7	ng	6	Rochefort ...	30.38	52	48	SSW 5	bc	2
Belmullet ...	29.85	49	49	SSW 4	o	#							

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

The Continental Reports for yesterday have not arrived.

Remarks for the 24 hours ended 8 am January 27th

The reports for Tuesday morning showed that an anticyclone with readings above 30.5 ins. lay over Austria, while the lowest pressures 29.4 ins. and less were reported over Lapland. Relatively low pressures 29.5 ins. and less were, however, found in the extreme west of the British Isles, where conditions were affected by some depressions which were moving northwards along the Irish and Scotch coasts. Moderate breezes from between E. and NE. were reported over Southern Europe, but in the west the wind was strong from the Snd (with gales in Ireland) while in Scandinavian and Northern Russia SWth or Wth breezes were general. Fine weather prevailed over Central and the greater part of Southern Europe, but elsewhere the sky was overcast, with rain at some of our own western stations. Temperature has risen several degrees in our Islands and Scandinavia, but fallen in Central Europe, and readings ranged from 58 and upwards over Spain, the south of Italy and the west of Ireland to below 32° over the whole of Central and Northern Europe, and to 15° or below over Central Russia. The highest individual readings were 55° at Malta, 53° at Mullaghmore, Valencia Island, Corunna and San Fernando and 51° at Scilly and Biscaya; the lowest were 11° at Humanaboth, 12° at Moscow and Kien, and 14° at Cracow and Kharkov. In the course of the day little change of importance was experienced. The gales noticed in Ireland in the morning extended to the west of Scotland and south-west of England, but the weather over the eastern part of the United Kingdom remained fair.

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 29th January 1887.

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

Issued by the Meteorological Office, No. 1, Pall Mall Street, London, W. 1. 1881, 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 ...	29.50	30	S	4	S	29.38	-.51	28	28	+1	Z	0	c	*	30	5	-	
Hernösand ...	29.58	36	SSW	4	O	29.54	-.41	36	33	+10	S	4	O	*	37	16	-	
Stockholm ...	29.85	37	WSW	2	O	29.78	-.35	39	37	+6	W	4	O	*	?	30	-	
Wisby ...	30.04	38	NW	4	bc	30.03	-.15	39	37	+3	WSW	4	bc	*	39	30	-	
Bodö ...	29.20	40	SW	6	O	28.77	-.74	37	36	-4	SW	5	A	3	45	36	0.20	
Christiansund ...	29.52	42	WSW	6	O	29.22	-.33	49	47	-3	WSW	9	A	6	50	39	0.75	
Skudesnaes ...	29.84	44	S	8	N	29.91	+0.01	45	44	+3	SSE	6	O	6	46	41	0.39	
Christiania Fjord (Fjorder)	29.93	39	SSW	8	b	29.80	-.27	41	40	+3	SSW	8	c	5	?	37	-	
Skagen (The Scaw)	30.08	40	NW	4	b	30.00	-.17	42	41	+9	W	4	O	3	43	?	0.08	
Fanö ...	30.30	36	WSW	4	b	30.28	+0.05	36	36	+3	WSW	4	b	*	37	32	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.50	44	SSW	6	n	29.50	-.04	51	48	+6	WSW	6	O	6	51	43	0.18	
Stornoway ...	29.49	51	SSW	9	glo	29.65	+0.02	49	49	+9	SSW	8	ng	7	52	40	0.29	
Wick ...	29.60	46	SW	5	c	29.71	-.01	51	50	+12	SW	3	e	1	53	33	-	
Nairn ...	29.67	50	WSW	6	bc	29.81	+0.02	52	50	+8	WSW	5	cm	4	56	42	0.02	
Aberdeen ...	29.83	49	SSW	7	bc	29.90	+0.07	50	47	+6	SSW	4	cq	2	51	42	-	
Leith ...	29.99	50	SW	5	e	30.04	+0.09	50	46	+5	WSW	5	c	*	53	45	-	
Shields ...	30.17	47	SSW	4	b	30.18	+0.10	47	45	+1	SW	4	e	2	52	44	-	
Spurn Head ...	30.31	43	SSW	4	bc	30.35	+0.15	43	41	+1	SW	4	b	2	48	34	-	
York ...	30.31	47	SSW	1	O	30.31	+0.12	43	39	-5	S	1	bc	*	52	41	-	
Loughborough	30.37	48	WSW	2	O	30.40	+0.16	43	43	-3	SW	1	O	*	54	41	-	
GERMANY.																		
Ardrossan ...	30.51	48	SW	9	om	30.09	+0.08	48	46	+3	SW	6	bc	5	48	44	-	
Malin Head ...	29.90	49	SW	6	O	29.98	+0.04	48	48	+3	SW	4	om	4	50	38	-	
Mullaghmore ...	30.04	51	SW	8	om	30.07	+0.05	48	46	+1	SW	6	c	6	53	47	-	
Belmullet ...	30.02	51	SSW	10	O	30.06	+0.02	50	48	+1	SW	7	O	*	51	44	-	
Donaghadee ...	30.11	51	SW	8	O	30.16	+0.09	48	47	+5	SW	7	b	6	51	42	-	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.27	44	S	4	e	30.30	+0.12	44	43	0	S	4	bc	*	46	43	-	
Liverpool (Bidston)	30.32	46	SW	3	b	30.34	+0.12	45	41	-3	SW	3	b	3	51	45	-	
Holyhead ...	30.31	47	SSW	5	glo	30.32	+0.09	46	45	+1	SSW	4	cq	4	49	44	-	
Parsonstown ...	30.24	51	S	2	O	30.25	+0.06	44	42	-1	SSE	1	bc	*	52	43	-	
Valencia ...	33.29	51	SSW	7	cm	30.26	+0.02	50	49	+1	SSW	5	bc	5	53	43	-	
SPAIN.																		
Roche's Point...	30.34	48	WSW	3	b	30.32	+0.05	48	47	+5	SW	4	O	4	50	42	-	
Pembroke ...	30.41	45	SSW	3	f	30.42	+0.11	45	45	-2	S	3	f	4	48	44	0.02	
Scilly ...	30.43	49	WSW	3	f	30.43	+0.08	46	46	-4	S	4	f	4	53	45	0.01	
Prawle Point ...	30.49	49	WSW	1	f	30.50	+0.10	45	45	-3	SW	1	f	3	50	43	0.01	
Jersey ...	30.52	43	W	1	b-m	30.52	+0.10	40	40	-1	SSE	2	f	2	50	39	0.01	
PORTUGAL.																		
Hurst Castle ...	30.49	45	SW	3	f	30.51	+0.12	44	44	-1	SSW	3	f	1	47	43	0.02	
Dungeness ...	30.45	44	W	3	m	30.48	+0.10	45	44	+2	WSW	3	m	2	49	42	-	
London ...	30.47	47	SW	2	b	30.48	+0.12	47	46	+8	WSW	1	om	*	50	38	-	
Oxford ...	30.49	44	SSW	1	O	30.47	+0.13	47	46	+5	SW	2	O	*	50	42	-	
Cambridge ...	30.42	43	SW	1	b	30.44	+0.11	48	46	+6	SW	1	O	*	54	37	-	
ITALY.																		
Yarmouth ...	30.40	45	WSW	2	bc	30.44	+0.12	43	42	+3	WSW	2	b	2	49	37	-	
Cuxhaven ...	30.36	37	SW	2	bc	30.42	+0.10	39	39	+5	SW	4	f	*	39	?	-	
Berlin ...	30.45	37	SW	2	b	30.51	+0.06	36	35	+2	SW	1	O	*	41	?	-	
Wiesbaden ...	*	*	*	*	*	30.67	+0.11	24	23	-2	SW	1	O	*	30	23	-	
Munich ...	30.60	24	SE	1	b	30.63	+0.10	26	26	+9	E	2	b	*	36	?	-	
GREECE.																		
The Helder ...	30.45	38	SW	3	b	30.45	+0.12	40	40	+5	SW	3	f	O	41	?	-	
Brussels ...	*	*	*	*	*	30.56	+0.12	35	35	-3	WSW	1	f	*	45	34	-	
Cape Gris Nez...	30.47	43	SW	5	O	30.51	+0.12	42	42	+3	SSW	5	f	4	46	37	0.04	
Paris ...	30.57	38	SE	1	O	30.58	+0.10	27	27	-2	NE	1	f	*	48	27	-	
Brest ...	30.53	42	SSE	3	m	30.50	+0.11	41	41	-3	SE	3	m	5	46	39	-	
TURKEY.																		
Lorient ...	30.55	42	E	3	f	30.51	+0.07	41	41	+1	E	3	bc	5	45	36	-	
Rochefort ...	30.54	47	E	4	O	30.50	+0.03	39	38	-2	ESE	5	b	2	52	34	-	
Belfort ...	30.54	35	E	1	b	30.52	-0.01	26	25	+5	E	4	m	*	42	19	-	
Lyons ...	30.56	39	N	1	b	30.58	+0.03	27	27	-5	NW	1	f	*	46	27	-	
Nice ...	30.47	46	SSW	1	b	30.49	00	41	39	0	E	1	b	1	35	41	-	
ALGERIA.																		
Perpignan ...	30.48	47	NE	1	b	30.49	+0.05	41	41	0	NE	1	O	*	56	37	-	
Biarritz ...	30.45	51	NE	5	b	30.42	+0.01	43	41	-2	S	4	b	2	59	41	-	
MOROCCO.																		
Corunna ...	*	*	*	*	*	30.31	+0.01	46	44	-3	NNE	7	bc	5	63	46	-	
Lisbon ...	30.34	56	NNE	7	b	30.31	+0.01	46	44	-3	NNE	7	bc	5	63	46	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Saturday, 29th January, 1887.

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.

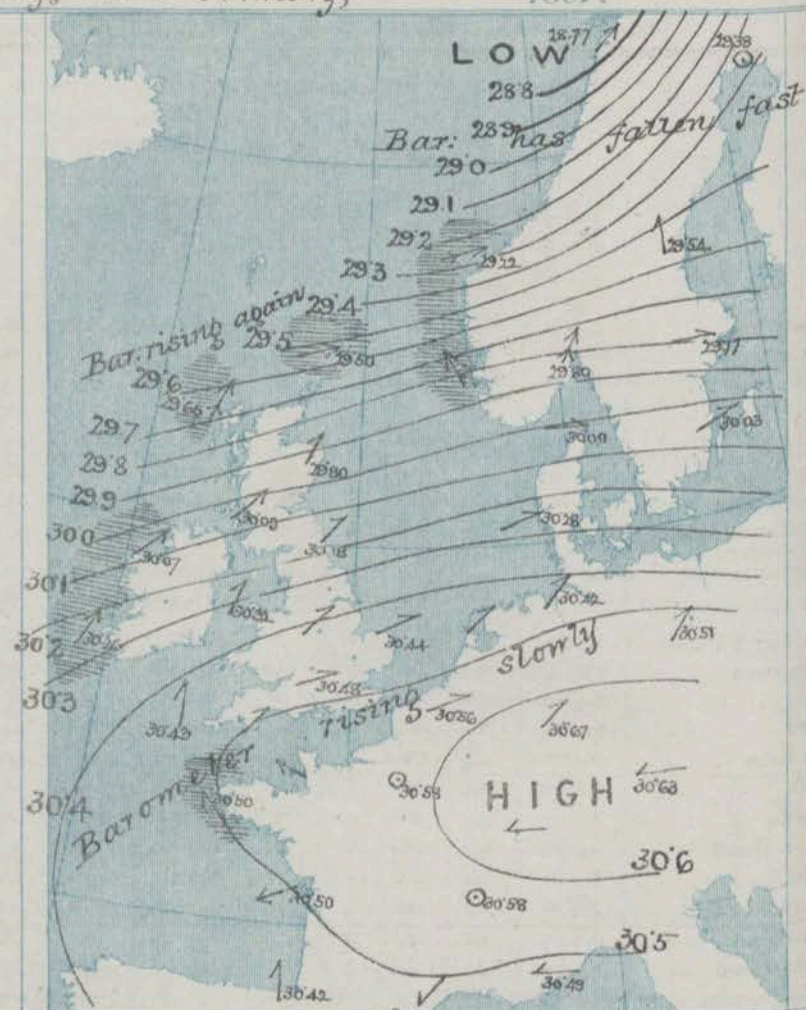
Sea Disturbance — where considerable is shown thus

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.681
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.807
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Rocha's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

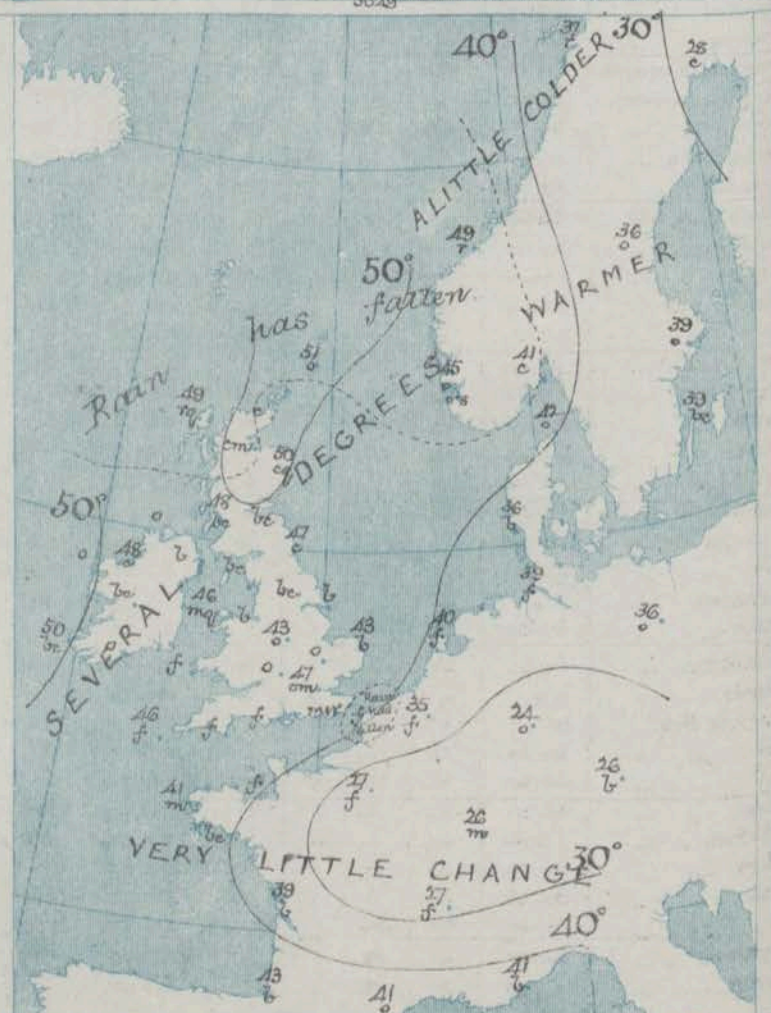
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	48.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.59
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.23
Valencia	49.8	40.7	44.1	43.3	6.79
Rocha's Point	47.8	39.9	43.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.82
Scilly	49.3	43.6	46.5	45.0	2.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.8	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.8	37.8	37.1	2.06

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in: to nearly 30.7 in: over France and Germany.
Lowest, 29.5 in: at Lumburg Head, 28.8 in: at Bodø

Gradients steep in the north, slight in the south. Barometer rising in north and east, steady in west, and in France.

TEMPERATURE

Highest, 50° to 52° in Scotland, 50° in the west of Ireland, 43° to 48° over England.

Lowest, 24° at Kierbaden, 26° at Munich and Belfast, 27° at Lyons and Paris, and 28° at Haparanda.

It has risen decidedly in the west and north since yesterday, and is very uniform over the United Kingdom, where the air is damp.

WIND

Moderate to light from E. and SE. in the west and south of France.

S and SW elsewhere - blowing a gale in the east of Norway, and a strong breeze to a gale on our own W. and N. coasts; light in the east and south. A strong SW gale blew in the N. and W. last night.

WEATHER

Varies greatly in different districts, from clear to densely overcast. Rain is falling in Norway and at Stromway, and thick wet fog prevails over the English and Bristol Channels and in the NE. of France.

A good deal of rain has fallen in the far N. during the night, and a measurable amount of water from the fog in the south.

SEA

High in the far north, rough in the west, smooth in the south and east. A heavy ground swell from SW, however, is reported at Jersey.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression passed northwards outside our extreme northern coasts during the night and is now over the north-west of Scandinavia. The gales it produced on our coasts have since lulled, but the wind has "backed" again in the west, and conditions are very favourable for the rapid advance of depressions towards our west and north-west coasts from the Atlantic.

FORECASTS

for the 24 hours ending at NOON on 30th JANUARY. 1887.

DISTRICTS.

FORECASTS.

* 0	SCOTLAND NORTH	SW ² winds, strong, perhaps a gale; rain at times.
1	SCOTLAND EAST	SW ² winds, moderate or fresh; fair.
2	ENGLAND N.E.	----- D° ----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	SW ² winds, moderate; some rain.
5	ENGLAND SOUTH	SW ² winds, light to moderate; cloudy, some rainfall occasionally.

DISTRICTS.

FORECASTS.

* 6	SCOTLAND WEST	SW ² winds, strong, perhaps a gale, rain at times.
* 7	ENGLAND N.W.	----- D° ----- D° ----- D° -----
8	ENGLAND S.W.	Same as N° 5
* 9	IRELAND NORTH	SW ² to SW ³ winds, force varying; changeable, some showers.
* 10	IRELAND SOUTH	----- D° ----- D° ----- D° -----

WARNINGS

The S. cone has hoisted yesterday afternoon in districts 6, 7, 9, 10 and parts of 2 and 8, but has been lowered in 1, 2 and 8 this morning. An asterisk is inserted against those districts in which signals are now flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.88	46	44	WSW 8	0	7	Holyhead ...	30.28	48	46	SSW 4	6	3
Sumburgh Head ...	29.63	43	38	WSW 5	c	4	Valencia ...	30.29	53	51	SSW 4	cm	6
Stornoway ...	29.60	46	46	SSW 6	2 q	6	Scilly ...	30.42	52	51	SW 2	0	4
Aberdeen ...	29.92	48	44	SSW 4	6	2	Dungeness ...	30.42	46	45	W 4	c	2
Shields ...	30.16	50	46	SW 4	c	2	London ...	30.43	50	48	SW 3	om	*
Ardrossan ...	30.06	47	45	SSW 4	0	3	Yarmouth ...	30.35	49	47	WSW 3	6c	3
Malin Head ...	29.92	49	49	SW 4	0	5	Jersey ...	30.48	48	46	SSW 1	6	1
Mullaghmore ...	30.04	51	48	WSW 8	c	7	Rocheport ...	30.53	49	47	SE 4	0	2
Belmullet ...	30.03	50	49	SW 9	c	*							

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

The Continental Reports for yesterday have not arrived.

Remarks for 24 hours ended 8am Jan: 28th

The reports for Thursday showed that at 8am today pressure varied from between 30.3 in: and 30.7 in: over France, Germany, and Austria, and the eastern part of the Mediterranean to a little below 29.9 in: in the extreme W. and NW. of the British Isles and 29.5 in: over Central Russia, where the barometer had fallen fast during the previous 24 hours. Thus, while SE to SW winds prevailed over W and NW Europe, with mild weather, and some rain in the extreme west, W and NW winds and colder, drier conditions were experienced over the Baltic and NW Russia, with snow in places, while over Central, southern and southern Europe the wind was very light or calm, the weather fair, but foggy locally, and very cold at the inland stations. Temperature varied from 15° F (and more) below the freezing point in Austria and South Germany, and from about 9° below the freezing point over Northern Russia to upwards of 50° on the Atlantic and many of the Mediterranean coasts. The highest individual readings were 55° at Oporto and Corunna, 54° at Cagliari, and 52° at Brindisi, Palma, San Fernando, Bilbao and Mullaghmore, the lowest 12° F at Hermanstadt, 18° at Kharkov, 19° at Caelruhe, Belfast, Munich and Elsberg, 20° at Kiev, and 21° at Vienna, and 22° at Archangel.

During the succeeding 24 hours temperature fell over Scotland and Ireland, but rose over England and the west of Norway, without any general alteration of wind direction, and the weather continued fair at all but the most ^W stations. The air, however, was very damp over the British Isles, and heavy dew and wet fogs occurred locally.

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 30th 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 35° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 35° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.15	42	SW	6	b	29.49	+ .11	30	29	+ 2	SW	2	b	*	43	25	0.04		
Hernösand ...	29.66	37	Z	0	bc	29.71	+ .17	36	35	0	S	2	bc	*	43	28	—		
Stockholm ...	29.91	41	S	4	o	30.02	+ .24	41	39	+ 2	SW	4	o	*	45	37	—		
Wisby ...	30.00	41	SW	4	bc	30.10	+ .07	39	38	0	W	4	bc	*	41	30	—		
Bodö ...	29.17	36	WSW	9	o	29.26	+ .49	39	39	+ 2	WSW	6	o	3	43	36	0.28		
Christiansund ...	29.61	44	WSW	9	r	29.49	+ .27	47	44	- 2	WSW	9	r	7	50	39	1.42		
Skudesnaes ...	30.02	45	SSW	4	bc	29.98	+ .07	45	44	0	S	4	o	5	46	45	—		
Christiania Fjord (Fjorder)	29.97	40	SSW	8	b	30.00	+ .20	40	40	- 1	SSW	8	b	5	45	39	—		
Skagen (The Scaw)	30.12	41	NW	6	o	30.17	+ .17	40	39	- 2	W	3	o	2	43	37	—		
Faßö ...	30.22	36	WSW	4	f	30.32	+ .04	36	36	0	SSW	4	f	*	39	34	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.76	44	WSW	4	r	29.67	+ .17	45	44	- 6	W	3	r	4	51	41	0.16		
Stornoway ...	29.73	45	S	7	dy	29.74	+ .09	42	42	- 7	WSW	5	dy	4	50	40	0.36		
Wick ...	29.82	47	SW	4	c	29.75	+ .04	47	45	- 4	W	1	o	0	52	44	0.08		
Nairn ...	29.85	51	WSW	6	bc	29.86	+ .05	50	48	- 2	SW	4	c	2	52	43	—		
Aberdeen ...	29.99	48	SSW	5	bc	29.91	+ .01	47	44	- 3	SSW	4	b	3	54	46	—		
Leith ...	30.10	50	WSW	5	c	29.99	- .05	49	44	- 1	WSW	4	b	*	54	48	—		
Shields ...	30.20	49	SW	4	b	30.15	- .06	47	43	0	SSW	3	bc	2	54	44	—		
Spurn Head ...	30.22	43	SSW	4	b	30.26	- .09	40	39	- 3	S	3	b	2	48	38	—		
York ...	30.30	49	SSW	1	b	30.23	- .08	39	38	- 4	SSE	1	b	*	52	37	—		
Loughborough	30.37	47	SSW	3	b	30.28	- .12	35	35	- 8	ESE	1	b	*	53	35	—		
Ardrossan ...	30.11	47	SSW	4	bc	29.97	- .12	46	45	- 2	SSW	4	o	3	48	45	—		
Malin Head ...	30.00	49	SW	3	o	29.83	- .15	46	44	- 2	SSW	5	o	4	51	45	—		
Mullaghmore	30.05	50	SW	6	o	29.92	- .15	47	45	- 1	SSW	7	o	6	52	47	—		
Belmullet ...	30.01	51	SSW	7	o	29.91	- .15	48	48	- 2	SW	7	o	*	51	46	—		
Donaghadee ...	30.14	50	SSW	5	c	30.03	- .13	44	44	- 4	SSW	5	c	3	53	44	—		
Barrow-in-Furness	30.27	43	SSE	4	bc	30.14	- .16	42	42	- 1	SSE	1	b	*	47	41	—		
Liverpool (Bidston)	30.29	49	S	2	b	30.20	- .14	42	40	- 3	SE	4	b	4	53	42	0.02		
Holyhead ...	30.27	45	SSW	4	cym	30.17	- .15	44	43	- 2	S	2	c	3	48	44	—		
Parsonstown ...	30.19	52	S	1	c	30.09	- .16	44	43	0	S	1	c	*	35	41	—		
Valencia ...	30.17	52	S	6	bc	30.06	- .20	50	49	0	SE	5	o	5	53	49	—		
Roche's Point...	30.26	48	SW	3	bc	30.12	- .20	47	45	- 1	SSW	4	bc	4	50	45	0.01		
Pembroke ...	30.35	45	S	2	c	30.20	- .22	43	43	- 2	SE	3	bc	3	47	43	—		
Scilly ...	30.35	47	S	4	af	30.18	- .25	48	46	+ 2	S	4	c	6	49	45	0.01		
Prawle Point ...	30.41	42	SE	2	f	30.25	- .25	44	43	- 1	SE	3	bc	3	45	40	0.01		
Jersey ...	30.42	44	E	1	bm	30.28	- .24	39	39	- 1	SSE	3	bm	3	44	39	0.01		
Hurst Castle ...	30.46	46	SE	1	f	30.30	- .21	41	41	- 3	ENE	2	f	0	45	37	0.02		
Dungeness ...	30.45	42	W	1	f	30.33	- .15	40	40	- 5	S	2	m	2	48	37	0.02		
London ...	30.45	45	SSW	2	o	30.34	- .14	34	34	- 13	Z	0	fw	*	50	34	—		
Oxford ...	30.46	43	SSW	3	o	30.32	- .15	33	33	- 14	Z	0	bm	*	51	35	—		
Cambridge ...	30.41	44	SW	1	b	30.32	- .12	35	35	- 13	SW	1	b	*	52	35	—		
Yarmouth ...	30.40	46	WSW	1	b	30.34	- .10	37	36	- 6	SSW	2	f	3	50	35	—		
Cuxhaven ...	30.43	37	WSW	2	f	30.41	- .01	37	37	- 2	WSW	2	f	*	38	35	0.04		
Berlin ...	30.48	36	W	2	b	30.49	- .02	31	30	- 5	W	1	f	*	41	28	—		
Wiesbaden ...	*	*	*	*	*	30.49	- .18	26	26	+ 2	SE	1	o	*	20	23	—		
Munich ...	30.53	40	E	4	f	30.49	- .14	21	21	- 5	SE	3	f	*	32	21	—		
FRANCE & NETHERLANDS.																			
The Helder ...	30.43	41	SW	1	c	30.38	- .07	37	36	- 3	SSW	1	f	1	43	37	—		
Brussels ...	*	*	*	*	*	30.38	- .18	32	31	- 3	Z	0	f	*	41	30	—		
Cape Gris Nez...	30.47	41	S	1	f	?	?	37	36	- 5	S	1	b	0	43	34	—		
Paris ...	30.48	40	N	1	b	30.38	- .20	29	29	+ 2	NE	1	b	*	47	29	—		
Brest ...	30.38	49	E	3	b	30.22	- .28	42	43	+ 2	SE	7	o	6	52	42	—		
Lorient ...	30.37	46	ENE	3	b	30.27	- .24	42	42	+ 2	S	3	m	3	50	37	—		
Rocheport ...	30.39	47	E	4	b	30.34	- .16	42	40	+ 1	SE	5	b	2	54	34	—		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	30.47	34	ENE	1	b	30.50	- .08	23	23	- 4	W	1	f	*	39	22	—		
Nice ...	30.46	46	Z	0	b	30.45	- .04	43	38	+ 2	E	3	b	0	54	39	—		
Perpignan ...	30.45	46	NE	3	o	30.41	- .08	46	44	+ 5	NE	3	o	*	52	42	—		
Biarritz ...	30.32	52	E	4	b	30.30	- .12	49	48	+ 6	S	3	b	2	61	43	—		
Corunna ...	*	*	*	*	*	30.28	- .04	47	45	+ 3	E	1	b	5	61	41	—		
Lisbon ...	30.24	54	NE	5	b	30.23	- .08	45	43	- 1	NE	5	b	2	59	45	—		

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Sunday 30th January 1887.

BAROMETER, WIND & SEA.

(Explanation of Map)

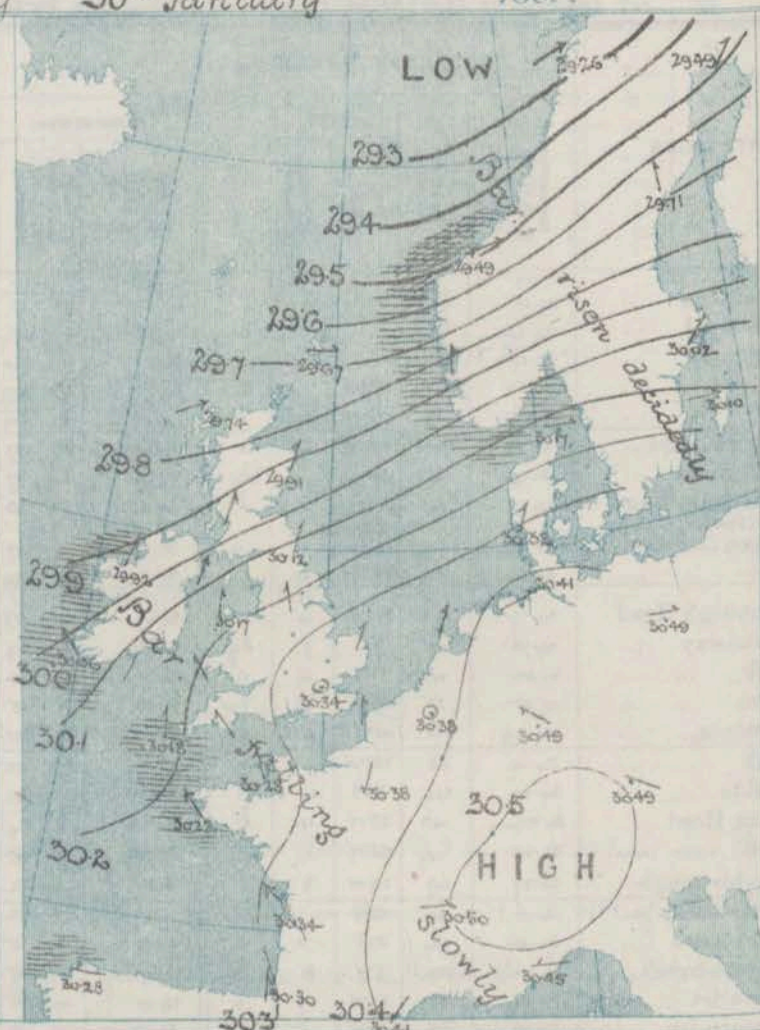
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10, — = forces 8 to 10,
 — = forces 5 to 7, — = forces 1 to 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.697
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.917
Donaghadee	29.928
Holyhead	29.975
Liverpool	29.906
Valencia	29.852
Roche's Point	29.898
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.997
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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

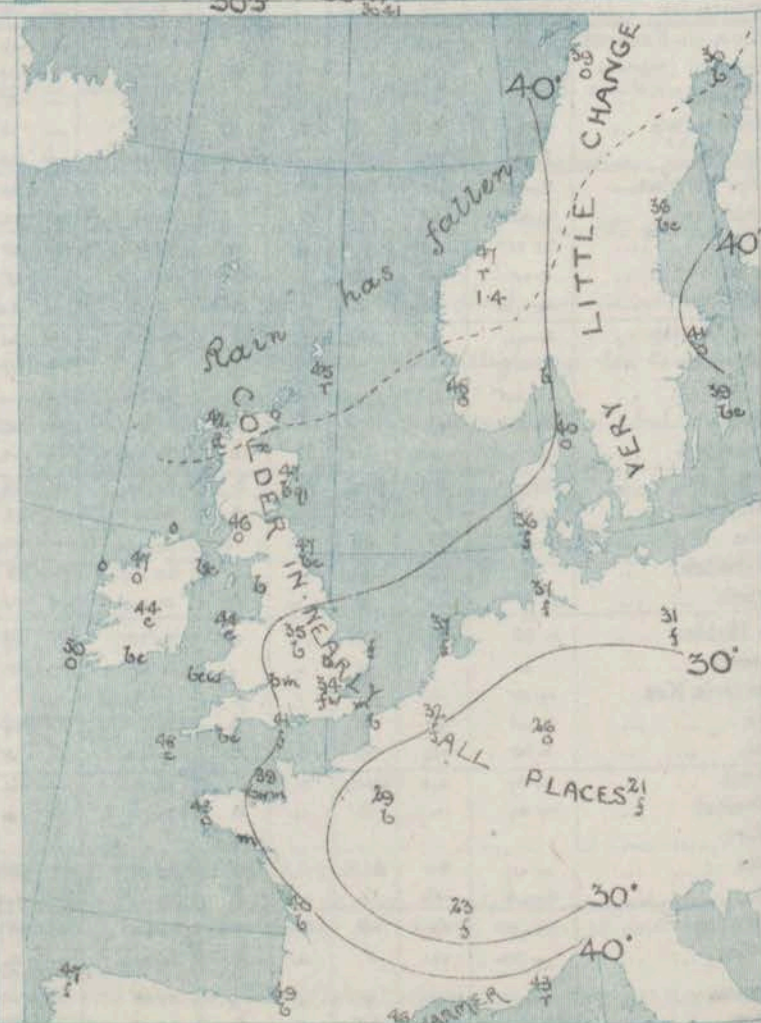
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	43.0	35.4	39.2	38.3	3.66
Stornoway	43.1	34.2	38.0	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	38.0	35.3	2.02
Aberdeen	42.6	34.1	37.8	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.2	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.20
Valencia	49.8	40.7	44.1	43.8	6.79
Roche's Point	47.8	39.9	43.1	42.0	5.68
Pembroke	46.1	40.3	42.8	41.3	3.02
Scilly	49.3	43.6	45.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	43.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.87
Yarmouth	42.2	34.6	37.8	37.1	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, 30.4 to 30.5 in. over Germany and the east of France. Lowest, 29.2 in. over Lapland and 30.0 in. off the west of Ireland. Gradients moderate except in south-east, where they are slight. Barometer rising in far N. falling elsewhere, most in south-west.
TEMPERATURE	Highest, 50° at Valencia, 48° at Belmullet and Sully, 47° at Christiansund. Lowest, 21° at Munich, 23° at Lyons, 26° at Wiesbaden, 29° at Paris. It has fallen fast over England during the night.
WIND	SE in the west of France, S in our Islands (strong in extreme north-west), SW, strong to gale, over Norway.
WEATHER	Again foggy in the south-east and over the Continent, fair over England, but in the north-west and west, with rain in places.
SEA	Rough in the extreme west and south-west, and on the Norwegian coast, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The SW and S winds appear to be spreading more to the eastward.

FORECASTS

For the 24 hours ending at NOON on 31st JAN^y 1887.

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

The south cone is still flying in districts 0 to 2 and 6 to 10. An asterisk is inserted against those districts in which the signals are still flying.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudeaues ...	29.98	46	45	S	4	0	6	Holyhead ...	30.41	47	47	SSW	4	mg	4
Sumburgh Head ...	29.68	47	45	SSW	5	0	6	Valencia ...	30.20	53	52	S	7	c	6
Stornoway ...	29.78	46	46	WSW	6	2	6	Scilly ...	30.39	48	47	S	4	0	6
Aberdeen ...	29.97	52	47	SSW	5	bm	2	Dungeness ...							
Shields ...	30.19	52	48	SW	3	b	2	London ...	30.47	50	48	SW	1	of g	*
Ardrossan ...	30.11	48	46	SW	4	b	4	Yarmouth ...	30.41	50	48	W	3	b	2
Malin Head ...	29.90	46	46	NW	3	0	4	Jersey ...	30.46	42	42	SE	1	b	1
Mullaghmore ...	30.07	51	48	SSW	8	c	7	Rocheport ...	30.40	50	47	E	4	b	2
Belmullet ...	30.06	50	49	SSW	6	0	*								

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

The reports for yesterday showed that the Continental high pressure area recently observed still held, but that a large and deep depression had reached Lapland from the Atlantic. Readings at 8 am varied from nearly 30° in: over Germany to 28.8 in: at Rods - the gradients being moderate over the Baltic, the North Sea and British Isles, but steep over Scandinavia. Calms and variable light breezes still prevailed over the major part of the Continent, while S and SW winds held over the British Isles and Scandinavia, and blew hard at the more exposed of the western stations. The weather remained very foggy on the Continent and over the Channel, but was fair over the United Kingdom except in the east and north-west, where rain fell. Temperature had risen on the eastern shores of the North Sea and varied from about 50° in the N. of our Islands and from a little above 50° over the SE. parts of the Mediterranean to rather below 15° over Switzerland and to below 5° on the shores of the White Sea. The highest individual readings were 53° at Algiers, Malta, and San Fernando, 52° at Barcelona and Ayr (Scotland), 51° at Wick, 50° at Valencia and Belmullet, the lowest 37° at Archangel, 17° at Linn, 19° at Carlskrona, 20° at Kharkov, 24° at Kristadon, 26° at Belfast, 27° at Paris and 28° at Haparanda.

During the succeeding 24 hours temperature was very changeable over Western Europe, as the large depression in the north passed off and other shallow disturbances appeared in the west. Warmer weather then spread to N-Europe, while the very cold weather passed S to Southern Russia. In the west, however, no important change occurred.

Remarks on the Weather for the 24 hours ended 8 am Jan^y 29th

The reports for Friday showed that the Continental high pressure area had extended very considerably and covered the whole of Spain, France, and Germany, with the Mediterranean and South-eastern Europe, while the lowest pressures were still found to the N. of Scotland and the W. of Norway. Readings varied from a little above 30° in: over Switzerland to rather above 29° in: at Sumburgh Head and in the north-west of Norway. The winds, which were extremely light and variable over the greater part of the Continent were S and SW over the British Isles, the Netherlands and Scandinavia, and blew very strongly on the more exposed parts of the W. coasts, while in the E. and SE they were moderate. The weather was as a whole fair but very foggy, and a heavy dew prevailed over England, a measurable amount being deposited in the rain gauges in most places. It was only in the extreme W. and NW. that rain fell, but in those places the fall was considerable. Temperature varied from several degrees below the freezing point over Germany, Central France, Russia and Finland to between 40° and 48° over the United Kingdom, the Bay of Biscay and the western part of the Peninsula and to 50° or more in a few places. The highest individual readings were 57° at Aporto, 58° at Malta, 54° at Cagliari and Palma, 52° at San Fernando, 51° at Langunaine and 50° at Scilly, the lowest 14° at Sapp, 15° at Kuopio, 16° at Uleaborg, 17° at Helsing, 19° at Archangel and Helmsburg, 21° at Belfast, and 29° at Paris.

During the succeeding 24 hours very little change of a general character occurred over W-Europe, but that a deep depression began to advance from the Atlantic towards the N. of Scandinavia.

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).

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DAILY WEATHER REPORT.

for Monday 31st 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 ...	29.43	33	SW	2	h	29.40	-0.03	34	38	+4	W	4	bc	*	43	?	-	
Hernösand ...	29.66	42	SSW	4	bc	29.74	+0.08	42	38	+6	SW	2	o	*	45	28	-	
Stockholm ...	30.03	42	S	2	c	29.99	-0.04	35	34	-1	S	2	b	*	43	?	-	
Wisby ...	30.17	37	W	4	f	30.11	+0.01	34	33	-1	WSW	4	f	*	43	34	-	
Bodö ...	29.29	39	WSW	1	h	29.31	+0.02	39	36	0	WSW	8	c	4	39	32	0.28	
Christiansund...	29.53	41	WSW	5	n	29.65	+0.12	39	35	-4	SW	6	bc	6	?	36	2.21	
Skudesnaes ...	29.93	47	S	8	o	29.79	-0.14	43	42	-1	S	6	o	5	?	?	-	
Christiania Fjord (Færder)	30.02	39	SSW	8	f	29.86	-0.16	37	37	-1	S	8	f	5	?	37	-	
Skagen (The Scaw)	30.10	35	SW	4	o	29.98	-0.12	33	32	-1	SW	4	o	3	?	32	-	
Fanö ...	30.21	31	SSW	4	f	30.11	-0.10	34	34	-1	SSW	4	m	*	37	30	-	
BRITAIN & IRELAND.																		
Sumburgh Head	29.65	40	W	3	h	29.63	-0.02	39	35	-4	W	3	c	3	45	36	0.06	
Stornoway ...	29.79	37	SSW	4	m	29.57	-0.22	39	37	-2	S	5	bp	5	42	33	0.28	
Wick ...	29.81	39	W	1	e	29.63	-0.18	36	35	-1	S	2	b	0	47	34	0.30	
Nairn ...	29.85	39	SW	2	n	29.69	-0.16	35	34	-1	SW	1	c	1	55	32	0.17	
Aberdeen...	29.85	47	SW	4	c	29.76	-0.09	37	36	-1	SW	2	c	1	52	36	0.02	
Leith ...	29.91	46	WSW	4	bc	29.80	-0.11	40	38	-2	WSW	3	cm	*	52	38	-	
Shields ...	30.00	50	SW	3	b	29.84	-0.16	43	39	-4	SSW	3	o	2	54	40	-	
Spurn Head ...	30.10	42	SSE	4	b	29.98	-0.12	42	41	-1	S	4	c	2	47	37	-	
York ...	30.08	44	E	1	b	29.93	-0.15	44	42	-2	S	2	o	*	51	37	-	
Loughborough	30.14	40	SW	2	b	30.04	-0.10	43	42	-1	SSE	3	o	*	54	35	-	
Ardrossan ...	29.92	46	SSW	5	o	29.81	-0.11	40	39	-1	SW	4	b	3	46	39	0.13	
Malin Head ...	29.93	40	W	3	o	29.68	-0.25	35	35	0	SSW	3	bc	3	46	34	0.18	
Mullaghmore ...	29.99	40	WSW	5	o	29.77	-0.22	38	35	-3	SW	5	bc	5	49	35	0.21	
Belmullet ...	30.02	46	W	5	o	29.68	-0.34	44	40	-4	SW	6	o	*	49	39	0.56	
Donaghadee ...	29.96	46	SW	3	c	29.86	-0.10	34	34	0	WSW	3	b	1	49	34	0.06	
Barrow-in-Furness	30.06	42	SSW	3	b	29.88	-0.18	40	39	-1	SSW	2	ns	*	47	39	0.14	
Liverpool (Bidston)	30.08	44	SSW	2	o	29.91	-0.17	42	41	-1	WSW	2	h	2	49	41	0.03	
Holyhead ...	30.04	44	S	4	o	29.93	-0.11	40	40	0	W	2	o	3	47	39	0.26	
Parsonstown ...	30.02	42	SE	2	n	29.90	-0.12	34	33	-1	S	1	b	*	52	32	0.09	
Valencia ...	30.06	42	SW	3	h	30.02	-0.04	47	44	-3	SSW	6	c	6	51	36	0.09	
Roche's Point...	30.01	48	SW	4	o	30.01	0	41	39	-2	W	3	bc	3	49	38	0.28	
Pembroke ...	30.09	46	S	3	c	30.01	-0.08	43	42	-1	WSW	4	cp	4	47	43	0.09	
Scilly ...	30.11	49	SSW	2	o	30.10	-0.01	46	44	-2	W	4	c	5	49	45	0.06	
Prawle Point ...	30.17	48	SSW	4	o	30.10	-0.07	49	48	-1	SW	4	op	4	49	42	0.01	
Jersey ...	30.23	43	SSW	3	o	30.20	-0.03	46	45	-1	SW	5	op	4	47	38	-	
Hurst Castle ...	30.21	43	SSW	4	o	30.13	-0.08	47	46	-1	SW	5	c	1	47	37	0.01	
Dungeness ...	30.20	43	SW	3	c	30.15	-0.05	45	44	-1	SW	4	o	3	45	40	-	
London ...	30.21	40	SSW	1	b	30.11	-0.10	46	45	-1	S	4	o	*	46	34	-	
Oxford ...	30.13	42	SE	4	o	30.17	+0.04	45	44	-1	S	2	bc	*	45	33	0.01	
Cambridge ...	30.21	40	SW	1	b	30.07	-0.14	45	44	-1	SW	1	o	*	52	33	-	
Yarmouth ...	30.21	38	S	3	bm	30.10	-0.11	42	41	-1	SSW	3	c	3	42	35	-	
Cuxhaven ...	30.33	34	SW	1	c	30.20	-0.13	32	31	-1	SW	3	f	*	?	30	-	
Berlin ...	30.38	36	SE	2	b	30.28	-0.10	29	28	-1	SW	1	b	*	41	28	-	
Wiesbaden ...	*	*	*	*	*	30.39	+0.11	27	26	-1	SE	1	f	*	30	23	-	
Munich ...	30.44	16	Z	0	b	30.41	-0.03	14	14	0	SE	4	m	*	28	14	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.25	33	S	1	b	30.15	-0.10	36	36	0	S	3	f	3	39	32	-	
Brussels ...	*	*	*	*	*	30.26	+0.11	37	36	-1	SSW	1	o	*	42	32	-	
Cape Gris Nez...	30.28	41	S	3	b	?	?	40	39	+1	SSW	7	o	4	45	36	0.04	
Paris ...	30.37	31	S	1	f	30.32	-0.05	31	31	0	SSE	1	c	*	32	23	-	
Brest ...	30.21	48	SSE	5	o	30.20	-0.01	49	48	-1	WSW	5	o	5	50	39	-	
Lorient ...	30.25	45	SSE	3	bc	30.27	+0.02	49	48	-1	SSW	4	o	5	?	39	-	
Rochefort ...	30.34	49	S	4	bc	30.38	+0.04	45	45	0	S	3	m	2	54	39	-	
Belfort ...	30.32	28	E	1	b	30.38	+0.06	20	20	0	NNE	1	b	*	41	15	-	
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Nice ...	30.37	43	E	1	b	30.33	-0.04	44	37	-7	ESE	3	b	1	57	39	-	
Perpignan ...	30.39	47	NE	3	b	30.38	-0.01	34	34	0	E	3	b	*	57	33	-	
Biarritz ...	30.33	54	S	4	b	30.36	+0.03	44	41	-3	S	3	b	2	59	39	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.26	55	NE	5	bc	30.29	+0.03	46	43	-3	NNE	5	b	2	59	45	-	

For Explanation of Columns, see p. 4.

WEATHER CHARTS

for 8 a.m. on Monday, 31st January

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.

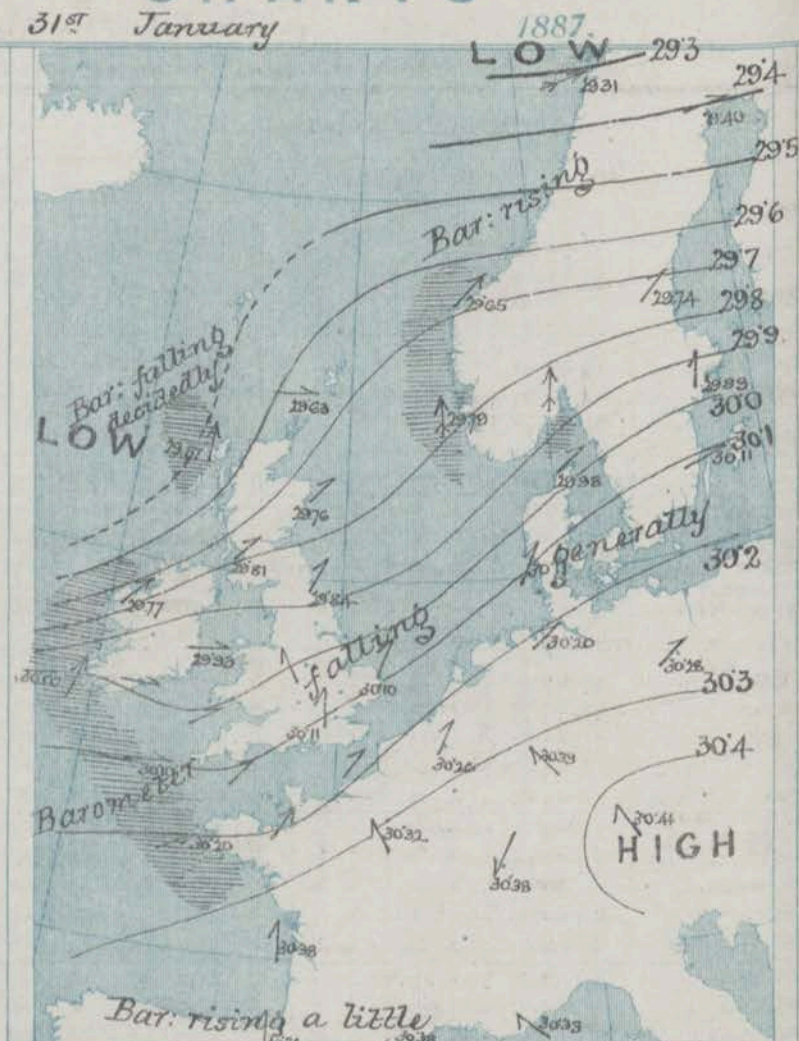
Sea Disturbance — where considerable is shown thus

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.661
Stornoway	29.657
Wick	29.637
Nairn	29.729
Aberdeen	29.763
Leith	29.819
Shields	29.867
York	29.916
Ardrossan	29.817
Donaghadee	29.828
Holyhead	29.875
Liverpool	29.906
Valencia	29.852
Roche's Point	29.883
Pembroke	29.913
Scilly	29.953
Hurst Castle	29.975
Dover	30.002
LONDON	29.987
Oxford	29.974
Cambridge	29.975
Yarmouth	29.964



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.

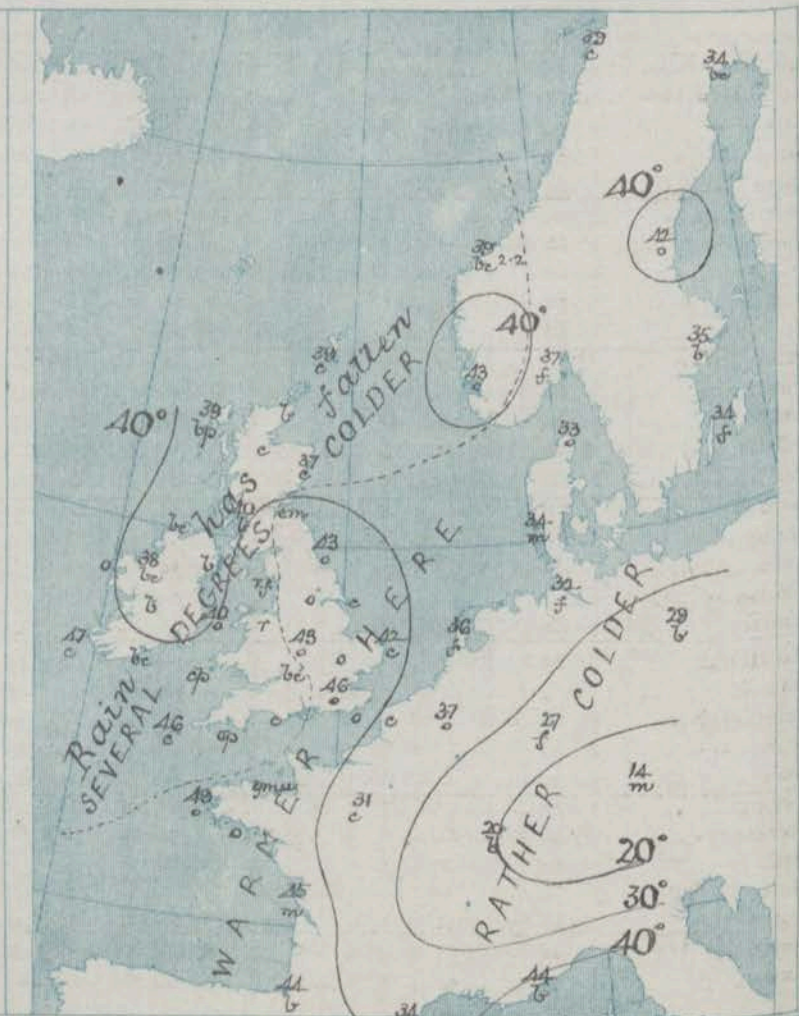
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of January

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Dry.	Average Wet.	
Sumburgh Head	43.0	35.4	39.2	38.8	3.66
Stornoway	43.1	34.2	38.9	37.6	5.17
Wick	42.4	33.4	37.9	36.5	1.97
Nairn	42.4	33.3	36.9	35.3	2.02
Aberdeen	42.6	34.1	37.3	35.7	2.34
Leith	45.3	34.0	38.2	37.2	1.98
Shields	43.3	35.1	37.8	36.6	1.79
York	43.6	33.5	36.9	35.9	1.88
Ardrossan	45.2	37.1	40.1	38.4	4.53
Donaghadee	44.5	36.3	39.7	38.8	3.03
Holyhead	46.3	39.3	41.7	40.3	3.49
Liverpool	44.4	35.8	38.9	37.3	2.29
Valencia	49.8	40.7	44.1	43.3	6.79
Roche's Point	47.8	39.2	41.1	42.0	5.63
Pembroke	46.1	40.3	42.8	41.3	3.92
Scilly	49.3	43.6	46.5	45.0	3.98
Hurst Castle	45.4	37.5	40.7	40.0	3.10
Dover	43.9	37.0	39.6	38.4	2.68
LONDON	45.2	34.6	38.1	37.1	2.20
Oxford	48.9	34.6	37.6	36.6	2.33
Cambridge	44.3	32.9	36.5	35.7	1.57
Yarmouth	42.2	34.6	37.8	37.1	2.08

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.3 in. to 30.4 in. over France and Germany. Lowest, 29.3 in. over Lapland, 29.5 in. off the northwest coasts of our islands. Gradients are slight in the south, moderate at the Central stations, rather steep in extreme N.W. and W. Barometer falling generally, more in N.W. and W.
TEMPERATURE	Highest, 45° at Brest, Lorient and Hawke Point, 47° at Valencia and Hurst Castle, 46° at Seilly, Jersey, London and Lirbond. Lowest, 34° at Haparanda, Utsky and Janö, 31° at Paris, 29° at Berlin, 20° at Belfast and 17° at Munich. It has risen decidedly over England since yesterday, fallen elsewhere, rapidly in Scotland.
WIND	S.W. to W., strong at our stations and in Lapland, — S. elsewhere; moderate in most places, but strong to gale over Norway. Gales are reported at Vaerdes and Bodø.
WEATHER	Foggy over North Germany, cloudy (more or less) at our stations, with showers in several places. Rain has fallen at all our western and extreme northern stations. In London the sky looks rather showery.
SEA	Rough in the extreme southwest, west and northwest, moderate in the Irish and English Channels, smooth on our eastern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There appears to be a large depression off our northwestern coast, moving in a northeasterly direction, and causing the strong S.W. winds at our western stations referred to above. Small and very shallow subsidiary systems are found over the more southern parts of the Kingdom, and these are producing very changeable weather generally.

As the barometer still falls decidedly at Valencia it is probably that rough showery weather will prevail in all districts during the next twenty-four hours.

FORECASTS

For the 24 hours ending at NOON on 1st February 1887.

DISTRICTS.

FORECASTS.

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

S. and S.W. winds, increasing, squally, showery.

D. — D. — D.

SW. winds, freshening; showery.

Same as No 5

Same as No 5

S. to W. breezes, fresh; cloudy, rain at times.

DISTRICTS.

FORECASTS.

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

Same as No 0

Same as No 0

W. to S. winds, unsettled, squally, showery.

S. to S.W. winds, strong, squally, showery.

D. — D. — D.

WARNINGS

NONE ISSUED AT PRESENT.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.97	45	44	S 7	0	6	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	30.34	51	49	SSC 5	6	2
Belmullet ...													

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday showed that pressure remained uniformly high (30.3 ins to 30.5 ins) over France, Germany, Austria, Southern Russia and the Mediterranean, while it was lowest (29.3 ins to 29.5 ins) over Lapland and Finland. In the north and north-west the gradients were moderate, but elsewhere they were slight—in many places almost nil. The winds over Western and Central Europe, were very variable in direction and light to calm in force, while over the British Islands they were S.W. and in Northern Europe S.W. to W. Rain was reported in the extreme north and north-west only, but was considerable in those parts. Temperature (which had risen rapidly in the north of Russia) varied from about 14° over Southern Russia and from rather below 25° over the south-east of France to very little below the freezing point in Finland and to between 45° and 50° on the Atlantic shores of the British Islands, France and the Peninsula. The highest individual readings were 55° at Barcelona, 52° at Bimaisi, 51° at Bilbao, 50° at Valencia (Ireland), (Aports and Cagliari); the lowest 7° F. at Kharkov, 17° at Bern, 19° at Prague, 21° at Munich, 23° at Lyons and 29° at Paris.

During the day the thermometer began to fall again in Ireland and Scotland, but rose over England. Otherwise very little change occurred in temperature over Western Europe.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 23RD TO THE 29TH JANUARY 1887.

Throughout this week pressure has been highest in an anticyclone the centre of which has been lying over France and Germany, and lowest over Finland, Lapland and off the north and north-west coasts of the British Islands. At first the centre of the anticyclone lay so far north that its north-western part covered the greater part of England and light winds prevailed generally, with cold foggy weather over England. As the week advanced, however, the anticyclone moved slowly to the south-eastward and as some large depressions moved north-eastwards outside our western and northern coasts to Lapland and Norway, temperature rose in those regions, and a little rain fell. Over the Continent, however, the weather was very cold and foggy, while in England the fogs occasionally cleared and temperature rose and fell alternately, while the sky was at times brilliantly clear. The maximum temperature were frequently above 50° in the west and north, and at times over England also; but the highest reading in our islands was 59°, which was recorded at Rain on Saturday the 29th.

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.

STATIONS in the BRITISH ISLANDS during the Month of JANUARY 1887
 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 No. of Days of							Wind No. of Observation of								
		Total Fall in the month	Maximum Fall in one day	Date	Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms
		ins.	in.																	
85	9.1	4.14	0.61	8 th	29	1	0	0	0	24	5	0	0	0	5	0	3	11	1	2
90	7.3	2.15	0.30	30 th	19	1	1	0	3	12	8	1	0	1	1	10	7	7	3	1
94	7.1	7.76	1.60	3 rd	28	5	2	0	4	18	14	0	1	2	1	12	9	5	1	0
84	6.6	1.31	0.22	7 th	19	3	0	0	3	7	1	0	1	0	1	2	13	6	0	8
85	5.8	2.92	0.53	17 th	18	5	2	0	9	9	12	1	0	2	0	9	12	4	0	3
85	5.4	0.62	0.14	6 th	13	3	0	0	9	6	1	0	1	0	2	3	11	11	1	2
84	7.4	1.46	0.22	9 th + 13 th	16	8	0	0	4	14	3	1	1	0	1	6	14	4	2	2
92	7.8	2.04	0.37	7 th	19	3	0	0	5	21	0	3	1	3	4	9	2	6	1	2
92	6.4	1.01	0.22	5 th	14	4	0	0	5	10	3	1	0	1	5	11	5	5	3	0
89	5.9	1.24	0.35	5 th	15	3	0	0	6	9	2	2	1	1	4	8	7	5	2	1
91	7.7	1.54	0.23	30 th + 7 th	13	7	0	0	5	19	0	2	0	2	2	10	7	1	0	7
94	8.4	2.44	0.71	7 th	15	9	1	0	3	21	2	0	3	3	8	4	4	5	2	2
92	7.9	2.49	1.18	3 rd	15	8	0	0	6	22	1	3	1	2	3	5	8	4	1	4
89	8.4	1.33	0.38	20 th	13	6	1	0	4	24	1	1	1	0	3	7	4	5	3	7
94	7.3	2.43	0.41	7 th	15	3	1	0	4	14	1	5	0	1	3	7	8	4	2	1
94	7.5	2.95	0.87	3 rd	17	2	1	0	2	11	3	3	5	3	2	2	6	6	4	0
95	7.1	2.79	0.45	4 th	21	4	0	0	6	19	9	0	4	2	3	9	7	3	1	2
89	7.2	5.57	0.87	10 th	22	10	0	0	6	18	0	2	2	3	3	9	6	3	2	1
94	7.5	2.62	0.48	10 th + 31 st	17	4	0	0	1	16	3	2	7	1	8	3	3	1	4	0
84	6.5	2.40	0.48	31 st	17	7	2	0	9	16	2	1	2	2	9	3	4	8	3	0
92	7.1	4.59	0.78	31 st	18	4	1	0	4	12	4	2	2	2	1	10	5	4	4	1
91	7.1	3.65	0.41	3 rd	25	2	0	0	2	13	5	1	2	2	5	8	3	4	6	0
91	7.2	2.70	0.73	3 rd	18	3	4	1	4	15	2	6	2	1	3	4	4	3	7	1
92	9.2	2.07	0.42	18 th	22	1	4	0	1	26	2	1	2	0	1	11	10	4	2	0
95	4.5	2.69	0.50	10 th	19	1	0	0	13	7	10	0	1	2	0	6	11	9	2	0
86	7.0	3.39	0.43	4 th	18	2	6	0	4	9	12	1	2	1	3	7	12	2	3	0
92	8.1	5.46	0.56	30 th	26	1	1	1	4	23	11	3	0	0	3	5	10	6	4	0
91	6.9	2.81	0.53	31 st	20	1	0	0	7	15	0	0	0	0	4	11	4	1	1	10
90	8.2	7.32	0.92	31 st	25	0	2	0	0	17	9	4	1	2	4	8	4	3	5	0
87	7.1	4.67	1.05	10 th	18	0	0	0	7	18	6	3	1	0	1	6	10	5	5	0
84	8.3	3.19	0.45	3 rd	23	0	4	0	0	15	9	4	0	2	3	8	5	3	4	2
91	5.9	2.77	0.42	19 th	20	2	3	1	9	13	6	3	4	3	3	7	4	4	2	1

Barometric Observations at this Station are not corrected for altitude.

2. CORRECTIONS.

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.	Sea. (0 to 2.)	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.	
2	York	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-	-
3	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Jersey	30.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Shields	29.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-
6	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-
7	Stornoway ..	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
8	Spurn Head ..	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
9	Rocked Point ..	-	-	-	-	-	29.10	- 41	-	-	-	-	-	-	-	-	-	-
10	Nairn	28.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
11	Loughborough ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	The Helms	28.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Cape Grisley ..	28.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	York	28.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Pravle Point ..	28.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Belmullet 2pm ..	-	-	-	-	-	29.83	-	-	-	-	-	-	-	-	-	-	-
17	Silly	-	-	-	-	-	29.74	+ 32	-	-	-	-	-	-	-	-	-	-
18	Ardrassan 2pm ..	-	-	-	-	-	-	-	33	-	-	-	-	-	-	-	-	-
19	Talencia 2pm ..	-	-	-	-	-	-	-	-	-	-	-	11W	-	-	-	-	-
20	Ardrassan 2pm ..	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-
21	Shields	-	-	-	-	-	-	-	-	-	-	-	SSW	-	-	-	-	-
22	Belmullet	-	-	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-
23	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	-
24	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
25	Nairn	30.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Pembroke	-	-	-	-	-	-	-	42	-	+ 9	-	-	-	-	-	-	-
27	Nairn	29.36	-	-	-	-	-	-	-	-	+ 1	-	-	-	-	-	-	-
28	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-
29	Jersey 2pm	-	-	-	-	-	30.23	-	-	-	-	-	-	-	-	-	-	-
30	Jersey	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	0.17
31	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Leith	30.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Leith	-	37	-	-	-	-	-	42	41	+ 5	-	-	-	-	-	-	-
34	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-
35	Parsonstown ..	-	-	-	-	-	29.99	- 45	-	-	-	-	-	-	-	-	-	-
36	York	-	-	-	-	-	30.08	- 15	-	-	-	-	-	-	-	-	-	0.03
37	Barrow-in-Furness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Sumburgh Hd. ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-
39	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-
40	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-
41	Silly	29.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	York	28.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-
44	Nairn	29.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Jersey	30.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-
47	Malin Hd 2pm ..	-	-	-	-	-	29.99	-	51	48	-	-	2W	-	-	-	-	-
48	Malin Head	29.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Loughborough ..	-	-	-	-	-	30.00	- 28	-	-	-	-	-	-	-	-	-	-
50	Malin Head	-	-	-	-	-	29.69	- 14	-	-	-	-	-	-	-	-	-	-

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR JANUARY 1887

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.	Sea. (0 to 9.)	SHADE TEMP.				
				Force. (0 to 12.)	Dirac.		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.	Amount of Rainfall.		
1	Cape Gris Neg.	30.50	31	E	4	b	30.40	-11	26	-	-7	E	4	bc	1	37	25	-		
"	Belfort	30.18	31	E	4	c	30.09	-08	25	-	-5	E	5	o	*	32	23	-		
"	Corunna	"	"	"	"	"	30.23	-09	39	38	-11	E	5	b	4	52	37	-		
"	Disbon	30.12	29	N	5	b	30.12	-05	38	34	-5	NHE	7	b	2	"	37	-		
2	Stormovay	29.94	45	SSW	5	o	29.85	-18	39	39	-6	W	1	d	1	46	37	0.12		
"	Biarritz	30.13	34	E	3	o	30.16	-03	31	-	-1	E	3	o	1	36	28	-		
3	Cape Gris Neg.	30.16	23	SSE	1	b	29.93	-19	32	-	+10	SW	7	o	6	36	21	-		
"	Corunna	"	"	"	"	"	30.11	-02	33	-	+1	ESE	1	b	3	46	"	-		
"	Disbon	30.08	45	NE	3	c	30.13	00	33	30	0	NHE	5	b	2	46	32	-		
4	Brest	29.48	44	SSW	11	A	29.48	-42	44	38	-2	NW	8	o	7	46	39	0.43		
"	Corunna	"	"	"	"	"	29.84	-27	47	45	+14	NW	7	A	6	52	"	0.20		
"	Disbon	29.97	53	NW	5	bc	29.97	-19	51	50	+18	SW	7	A	5	"	"	-		
5	Belfort	29.51	26	NE	1	c	29.39	"	22	-	+4	NE	1	bc	"	27	17	-		
"	Dyons	29.58	34	NHE	1	o	29.54	-01	28	27	"	S	1	o	"	38	26	0.04		
"	Perpignan	29.45	47	NW	4	b	29.61	-01	37	-	+10	W	3	o	"	"	"	0.04		
"	Disbon	30.03	50	NW	8	bc	30.03	+09	53	52	+2	SW	1	o	2	55	36	0.12		
6	Paris	29.12	34	SW	3	bc	29.10	-09	34	33	+3	SW	3	o	"	41	31	0.16		
"	Brest	30.19	42	SW	7	b	29.10	-09	41	39	-6	NW	7	A	5	43	37	-		
"	Belfort	29.18	29	NE	3	S	29.21	-13	31	"	+9	SE	1	o	"	34	21	0.08		
"	Nice	29.39	35	NW	3	o	29.28	-23	34	31	+3	E	1	b	3	39	30	-		
"	Perpignan	29.48	39	NE	3	A	29.34	-27	43	40	+6	NW	4	"	"	44	37	0.55		
"	Corunna	"	"	"	"	"	29.69	"	44	41	"	"	8	bc	6	55	39	0.24		
"	Disbon	29.98	55	NW	7	A	29.88	-15	54	52	+1	NW	5	A	"	57	"	0.08		
7	Pembroke	28.99	36	NW	4	bc	28.89	-04	41	40	+3	NW	3	opm	3	42	"	0.25		
"	Cape Gris Neg.	28.99	37	W	5	bc	29.07	+17	38	-	+1	SW	7	o	6	41	34	0.24		
"	Disbon	29.92	48	NW	5	b	29.84	-04	48	45	-6	NW	4	bc	6	55	46	-		
8	The Helder	29.18	34	S	1	o	29.25	+18	34	-	+1	S	1	c	1	34	32	-		
"	Disbon	29.42	54	SSW	9	A	29.61	+23	46	42	-2	NW	4	bc	"	55	45	0.55		
9	Cape Gris Neg.	29.21	50	NE	4	o	29.27	+18	49	-	+13	S	3	o	3	"	34	0.24		
10	Nice	29.58	40	E	1	o	29.59	"	38	-	"	SSE	3	bc	3	43	32	0.08		
"	Disbon	30.04	48	NW	3	o	30.13	+22	46	45	+1	SW	1	b	4	54	45	-		
11	Corunna	"	"	"	"	"	29.90	-04	55	-	+6	SW	1	c	3	55	48	-		
12	The Helder	30.07	38	S	3	c	30.18	+09	32	-	+1	S	1	o	0	34	30	-		
"	Cape Gris Neg.	30.01	34	SW	7	o	30.12	+12	37	-	+6	SW	3	A	1	"	30	0.20		
"	Corunna	"	"	"	"	"	30.17	+27	36	-	-19	SSE	1	o	3	61	"	-		
"	Disbon	30.06	54	SSE	5	o	30.12	00	47	46	-7	NHE	5	c	"	39	46	-		
13	Corunna	"	"	"	"	"	30.31	+14	45	42	+9	EHE	5	b	6	55	"	0.04		
"	Mullaghmore 4pm	"	"	"	"	"	30.18	"	45	44	"	NW	5	o	3	"	"	-		
14	The Helder	30.38	28	EHE	1	b	30.32	-08	24	-	-9	EHE	1	b	1	34	"	-		
"	Nice	30.12	45	NW	1	b	30.02	-14	38	-	-2	ESE	1	b	0	52	37	-		
"	Corunna	"	"	"	"	"	30.24	-07	47	46	+2	NE	8	A	5	52	45	0.08		
15	Cape Gris Neg.	30.30	37	E	5	o	30.28	+03	24	-	-14	E	7	m	6	39	23	-		
"	Corunna	"	"	"	"	"	30.06	-18	41	-	-6	E	1	bc	"	50	39	-		
17	Corunna	"	"	"	"	"	30.21	+17	46	44	-4	NW	3	o	6	54	43	0.12		
18	The Helder	30.14	20	SSE	1	b	30.05	-05	23	-	+5	S	3	c	3	23	18	-		
"	Corunna	"	"	"	"	"	30.34	+18	54	53	+8	SW	3	m	5	55	45	0.08		
19	Corunna	"	"	"	"	"	30.41	+07	59	58	+5	NW	3	f	4	59	39	-		
20	The Helder	30.00	39	SSW	5	A	30.13	+03	0	-	+9	N	4	c	3	"	"	0.25		
"	Cape Gris Neg.	30.12	46	SW	7	o	30.18	+05	42	-	-3	NHE	7	o	6	48	41	0.24		
"	Corunna	"	"	"	"	"	30.57	+16	46	45	-13	E	1	f	3	"	39	-		
23	The Helder	30.38	40	W	3	c	30.42	+01	39	-	0	NW	1	f	1	42	39	-		
24	The Helder	30.46	39	WSW	1	b	30.38	-04	37	-	-2	SSE	1	f	0	41	37	-		
"	Corunna	"	"	"	"	"	30.24	-05	48	46	-2	SSE	4	b	3	63	46	-		
25	Corunna	"	"	"	"	"	30.09	-15	53	48	+5	SE	5	b	4	61	48	-		
26	Corunna	"	"	"	"	"	30.10	+01	56	53	+3	SSE	5	o	4	61	52	-		
28	Corunna	"	"	"	"	"	30.32	+04	44	40	-2	E	1	b	4	61	41	-		
"	Bungness 2pm	"	"	"	"	"	30.48	"	44	44	"	W	3	f	2	"	"	-		
31	Corunna	"	"	"	"	"	30.34	+06	43	-	-4	ESE	1	c	5	63	41	-		

‡ The figures published in the Daily Weather Report were incorrect.

Continued on Page 4.

† The figures published in the Daily Weather Report were incorrect.

Continued on Page 4.

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. ins.	Air Temperature.								Tension of Vapour ins.
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
0. SCOTLAND, N.	{ Sumburgh Head ... Wick ... Stornoway ...	29.642 29.687 29.622	41.7 39.5 40.6	37.6 34.6 34.9	44.2 43.7 44.6	40.9 39.2 39.8	33 25 25	7 th 8 th + 9 th 9 th 9 th + 10 th	51 53 52	28 th 29 th 28 th 29 th 28 th	0.223 0.216 0.238
1. SCOTLAND, E.	{ Nairn ... Aberdeen ... Leith ...	29.697 29.742 29.805	39.4 38.3 39.6	33.3 34.1 34.8	45.2 43.3 44.6	39.3 38.7 39.7	22 24 23	11 th + 18 th 15 th + 16 th 17 th	59 54 54	29 th 29 th 26 th + 29 th	0.210 0.196 0.207
2. ENGLAND, N.E.	{ Shields ... York ... Spurn Head ...	29.882 29.946 29.949	37.4 34.3 36.1	32.6 29.6 31.4	42.5 40.7 40.0	37.6 35.2 35.7	23 18 25	17 th 17 th 7 th + 11 th	54 52 48	29 th + 30 th 28 th + 29 th 28 th 29 th + 31 st	0.194 0.182 0.196
3. ENGLAND, E.	{ Yarmouth ... Cambridge ...	30.005 30.006	35.2 33.7	31.2 28.3	39.3 40.3	35.3 34.3	23 12	7 th 2 nd	50 54	29 th 28 th	0.184 0.178
4. MIDLAND COUNTIES.	{ Loughborough ... Oxford ...	29.969 30.011	33.2 33.6	28.7 29.2	40.7 39.6	34.7 34.4	14 14	17 th 2 nd	54 52	28 th + 30 th 31 st	0.178 0.179
5. ENGLAND, S.	{ London ... Dungeness ... Hurst Castle...	30.013 30.001 30.012	34.9 37.1 37.5	30.5 32.5 32.0	41.2 42.0 43.3	35.9 37.3 37.7	15 21 23	2 nd 17 th + 18 th 2 nd	54 49 49	19 th 28 th 31 st	0.181 0.207 0.212
6. SCOTLAND, W.	Ardrossan ...	29.813	39.9	36.0	42.8	39.4	24	7 th	49	22 nd	0.231
7. ENGLAND, N.W.	{ *Hawes Junction ... Barrow-in-Furness ... Liverpool Obs ^y (Bidston) ... Holyhead ...	28.646 29.908 29.926 29.910	33.1 36.4 36.6 40.8	28.8 33.2 33.2 38.2	37.8 40.2 42.3 44.7	33.3 36.7 37.8 41.5	13 27 25 29	17 th 7 th 8 th + 17 th 1 st 2 nd + 17 th 17 th	49 47 53 50	26 th + 27 th 19 th 24 th + 30 th 29 th 19 th 26 th	0.185 0.203 0.188 0.231
8. ENGLAND, S.W.	{ Pembroke ... Prawle Point ...	29.953 30.010	42.0 40.4	39.2 35.9	44.9 45.7	42.1 40.8	31 30	16 th 1 st 2 nd + 17 th	49 50	18 th 19 th 25 th 26 th 18 th 25 th 27 th 28 th	0.241 0.226
9. IRELAND, N.	{ Malin Head ... Donaghadee ... Mullaghmore ... Belmullet ...	29.726 29.844 29.772 29.773	40.9 39.2 42.0 43.3	37.4 34.4 37.5 39.5	44.6 44.5 47.3 46.8	41.0 39.5 42.4 43.2	31 25 29 32	6 th 7 th + 17 th 6 th 7 th + 10 th 4 th + 8 th 4 th	52 53 56 52	25 th 26 th 27 th 18 th 19 th + 29 th 25 th 20 th 25 th + 26 th	0.238 0.228 0.229 0.258
10. IRELAND, S.	{ Parsonstown ... Valencia ... Roche's Point ...	29.882 29.881 29.910	38.9 45.3 43.1	34.3 40.8 29.0	45.5 49.5 47.1	39.9 45.2 43.1	25 33 29	10 th + 15 th 15 th 10 th	55 54 51	29 th 18 th 19 th 25 th 18 th 19 th 26 th	0.215 0.212 0.244
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ... Jersey (Noirmont) ...	29.971 30.030	45.6 38.7	41.9 35.4	48.4 43.5	45.2 39.5	37 25	5 th 9 th + 16 th 16 th	54 51	25 th + 26 th 31 st	0.267 0.214

* Hawes Junction is 1135 feet above mean Sea Level and the

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