

METEOROLOGICAL OFFICE

✓  
LONDON.

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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY—31<sup>ST</sup> DECEMBER.

1887.



July to December 1887.

*Map Showing Stations*





# DAILY WEATHER REPORT.

for Tuesday 1<sup>st</sup> November

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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
<b>SCANDINAVIA.</b>																			
Haparanda	29.38	37	SE	4	r	29.29	-16	35	35	-1	NE	2	r	*	37	37	0.12		
Hernösand	29.19	40	ESE	2	o	29.31	+18	36	35	-5	NNE	2	bc	*	43	39	0.82		
Stockholm	29.50	42	WSW	4	b	29.60	+37	39	37	-5	SSW	2	b	*	46	39	0.04		
Wisby	29.64	45	SW	4	c	29.65	+38	44	43	-3	WSW	4	o	*	48	41	0.12		
Bodö	29.30	40	ESE	2	o	29.28	+02	38	35	+3	ESE	4	bc	2	?	34	-		
Christiansund	29.18	41	SE	1	c	29.29	+17	39	37	+1	SSW	2	c	3	41	36	-		
Skudesnaes	29.25	46	SW	4	c	29.41	+26	46	43	+2	WSW	2	o	3	46	43	-		
Christiana Fjord (Porder)	29.30	46	SW	4	bc	29.45	+33	44	42	+3	WSW	2	b	3	46	41	0.20		
Skagen (The Scaw)	29.39	42	SW	3	bc	29.49	+30	41	40	-2	SW	3	b	2	45	39	0.04		
Fanö	29.49	44	SW	4	c	29.54	+16	42	41	-4	S	2	b	*	50	41	0.16		
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.21	40	N	4	o	29.24	+18	40	38	-1	NSE	3	o	3	46	39	0.03		
Stornoway	29.31	35	NE	3	bc	28.83	-30	45	45	+5	SSE	7	r	6	46	33	0.30		
Wick	29.33	36	NW	1	b	29.03	-03	47	46	+7	S	6	o	5	48	28	0.35		
Nairn	29.35	38	W	0	o	29.02	-05	46	44	+6	W	0	c	1	46	32	0.09		
Aberdeen	29.38	38	NW	3	b	29.11	-06	47	44	+4	S	8	oq	5	47	31	-		
Leith	29.41	40	W	1	bc	29.10	-11	46	43	+5	S	1	o	*	51	37	0.01		
Shields	29.45	42	WSW	2	b	29.18	-11	45	42	+3	SSW	4	o	2	50	38	-		
Spurn Head	29.51	45	WSW	5	b	29.28	-10	46	46	+6	SSE	7	cq	4	49	38	-		
York	29.51	43	W	1	b	29.22	-14	42	40	+2	SSE	4	o	*	47	35	0.01		
Loughborough	29.62	43	W	1	b	29.23	-21	44	42	+5	SE	4	oq/u	*	52	38	0.02		
<b>GERMANY.</b>																			
Ardrossan	29.42	46	WSW	2	o	28.92	-30	47	46	+4	SE	7	o/p	6	49	42	0.24		
Malin Head	29.31	43	S	4	oq	28.72	-59	43	43	-1	S	4	omr	3	47	40	0.28		
Mullaghmore	29.26	47	S	7	oq	28.70	-74	42	41	-4	S	5	or	4	49	41	1.26		
Belmullet	29.13	48	S	10	r	28.64	-84	41	40	-3	SSE	4	c	*	49	40	2.30		
Donaghadee	29.46	42	SW	2	c	28.82	-50	48	47	+6	S	7	r	5	49	39	0.36		
Barrow-in-Furness	29.61	46	SW	3	bc	29.00	-31	47	43	+2	SE	9	o/p	*	48	43	0.04		
Liverpool (Bidston)	29.55	42	WSW	3	b	28.94	-42	45	43	+2	SE	7	r	4	49	42	0.09		
Holyhead	29.55	48	SW	4	bc	28.79	-62	49	45	+4	SE	9	oq/m	7	51	45	0.05		
Parsonstown	29.34	53	S	8	om	28.79	-89	50	47	+1	WSW	6	cq/p	6	52	44	0.81		
Valencia	29.48	51	SW	6	c	28.70	-88	45	42	0	WSW	6	c	5	54	42	1.15		
Roche's Point	29.65	51	SW	5	bc	28.61	-89	47	47	+2	S	6	rq	9	51	40	0.45		
Pembroke	29.70	52	SSW	5	o	28.94	-69	48	46	0	W	8	oq	7	53	43	0.68		
Seilly	29.78	48	WSW	5	bc	29.07	-53	47	47	+3	S	10	rq	8	50	40	0.20		
Prawle Point																			
Jersey																			
<b>FRANCE &amp; NETHERLANDS.</b>																			
Hurst Castle	29.74	47	W	5	b	29.29	-26	46	45	+2	SSW	10	r	6	50	43	0.12		
Dungeness	29.65	46	W	3	b	29.47	-05	48	45	+1	SSW	6	c	5	50	44	-		
London	29.67	42	W	3	b	29.37	-16	47	43	+6	SE	5	o	*	51	40	-		
Oxford	29.70	40	WSW	3	bc	29.23	-28	48	44	+8	SSE	4	rq/u	*	50	39	-		
Cambridge	29.60	48	SW	1	bc	29.32	-17	45	42	+8	SSE	3	o	*	50	34	-		
Yarmouth	29.58	42	W	4	o	29.46	-01	46	44	+6	S	6	cq	5	48	36	0.07		
Cuxhaven	?	41	SSW	2	o	29.65	+11	40	40	-2	SSW	3	f	*	44	38	-		
Berlin	29.72	48	SW	2	o	29.79	+03	42	40	+1	SW	1	o	*	52	41	0.04		
Wiesbaden	*	*	*	*	*	29.81	+04	36	35	-7	W	0	b	*	48	34	-		
Munich	29.88	43	SW	4	r	29.86	-05	36	36	-6	S	4	r	*	52	36	0.71		
<b>ITALY.</b>																			
The Helder	29.60	47	WSW	3	bc	29.62	+14	40	39	-6	S	1	b	2	50	39	0.08		
Brussels	*	*	*	*	*														
Cape Gris Nez	29.60	46	SW	5	bc	29.52	+03	42	41	-4	S	7	bc	5	50	41	0.39		
Paris	29.85	43	WSW	3	bc	29.70	-02	42	34	-2	S	3	bc	*	53	33	-		
Brest																			
Lorient	29.93	52	NW	7	b	29.28	-50	49	46	+3	S	11	r	7	54	46	0.28		
Rocheport	30.06	61	WSW	8	bc	29.59	-35	47	44	-3	SSE	8	o	4	57	43	-		
Belfort																			
Lyons	29.97	43	SSE	1	c	29.84	-04	36	36	-4	SSW	1	bc	*	47	34	0.04		
Nice	29.73	50	E	5	r	29.65	-26	46	45	-5	N	3	f	4	55	45	0.71		
Perpignan	30.02	50	NW	4	o	29.85	-07	38	37	-15	W	0	c	*	58	46	0.08		
Biarritz	30.13	55	NW	7	bc	29.64	-36	53	45	+1	SW	11	rcl	5	57	?	0.04		
Corunna	*	*	*	*	*														
Lisbon	*	*	*	*	*														

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



# WEATHER CHARTS

for 8 a.m. on Tuesday, 1<sup>st</sup> November, 1887.

## BAROMETER, WIND & SEA.

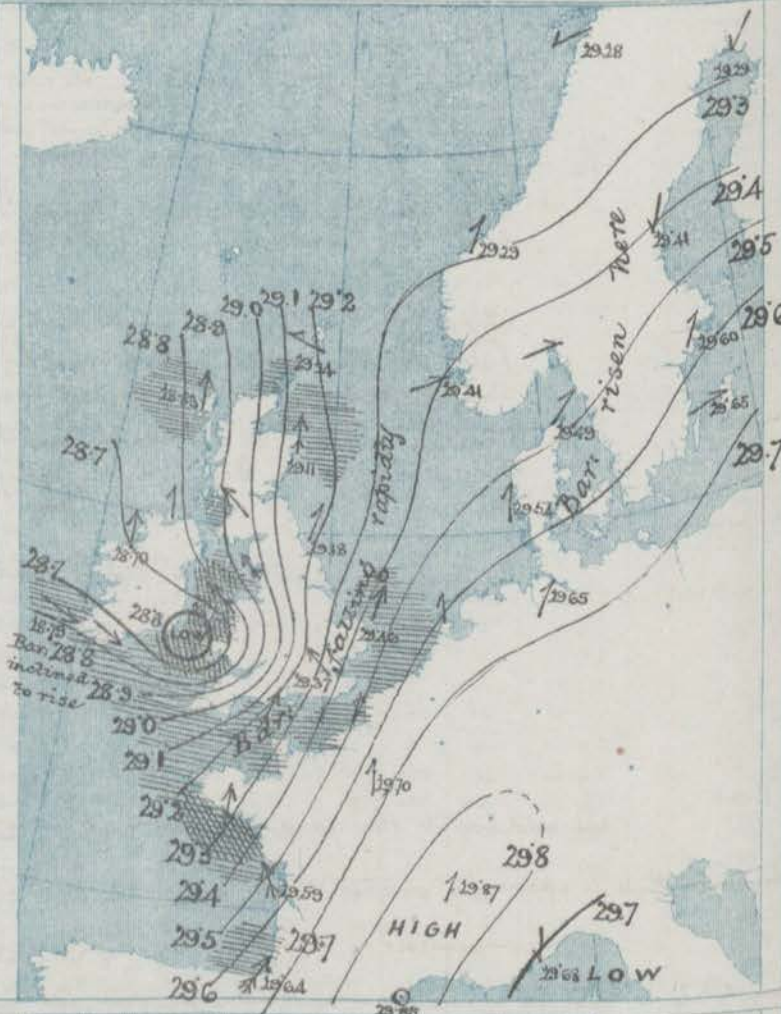
(Explanation of Map)

- 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 November  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Seilly	29.899
Hurst Castle	29.895
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.8	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Seilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, 29.8 ins. and upwards, in the east and south-east of France.  
Lowest, 28.6 ins. and less, in a small secondary depression lying over the St. George's Channel; 28.7 ins. and less, in a larger disturbance lying to the W. of our Islands.  
Gradients steep over Great Britain and France, and especially so over our south-west coasts.  
Barometer falling rapidly at most of our western stations, but inclined to rise at Valencia.

## TEMPERATURE

Highest, 53° at Biarritz, 50° at Valencia, 49° at Holyhead and Lorient, and 48° at Donaghadee and Oxford.  
Lowest, 35° at Haparanda, 36° at Lyons, 38° at Bordeaux and Perpignan, 39° at Stockholm and 40° at Sumbagh Head.

## WIND

Strong from the SE. or S. over the northern and eastern part of Great Britain, and the north of Ireland, with gales in many places.  
Violent S. gales reported over the Bay of Biscay and the Bristol and English Channels.  
Strong WNW winds prevail in the south of Ireland, but only light SW breezes on the eastern shores of the North Sea.

## WEATHER

Cloudy or overcast in our Islands and the coast of France, with rain at the western and southern stations, and a thunderstorm at Biarritz.  
Fine in Scandinavia, Denmark, the Netherlands and the east and south of France.  
Heavy rain has fallen in Ireland, the largest amounts being 2.3 ins. at Balmullet, 1.3 ins. at Mullaghmore, and 1.2 ins. at Rochest.

## SEA

Tremendously high at Pembroke, high at Holyhead and Lorient, and rough on nearly all part of our own and the French coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the large depression off our west coasts and the deep secondary disturbance over the St. George's Channel there is apparently another secondary system over the Bay of Biscay.

As the barometer is now relatively high and rising to the eastward and south-eastward of our Islands the depressions are likely to move in a northerly, or north-easterly direction, and the strong gales in the west will probably extend to our north and east coasts.

## FORECASTS

for the 24 hours ending at NOON on 2<sup>nd</sup> November, 1887.

### DISTRICTS.

### FORECASTS.

10	SCOTLAND NORTH	S. and SE. gales, moderating later; squally, some rain.
11	SCOTLAND EAST	----- D° ----- D° ----- D° -----
12	ENGLAND N.E.	S. and SE. winds, increasing to a gale; squally, rainy.
13	ENGLAND EAST	----- D° ----- D° ----- D° -----
14	MIDLAND COUNTIES	Same as No 5
15	ENGLAND SOUTH	S. to SW. gales; squally and rainy at first, but improving later.

### DISTRICTS.

### FORECASTS.

16	SCOTLAND WEST	SE. gales, moderating and veering; squally, showery.
17	ENGLAND N.W.	----- D° ----- D° ----- D° -----
18	ENGLAND S.W.	SW. to W. gales, moderating gradually; squally showery.
19	IRELAND NORTH	S. to SW. winds; showery, squally.
20	IRELAND SOUTH	NW. and W. winds, strong; squally, showery.
WARNINGS		The south cone was hoisted yesterday on all coasts and the signals are still flying.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Day.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.20	44	42	ESC 6	0	3	Holyhead ...	29.56	48	44	W 5	bc	5
Sumburgh Head ...	29.44	43	42	W 2	0	2	Valencia ...	29.58	52	48	SSW 6	0	5
Stornoway ...	29.35	42	40	W 4	bc	3	Scilly ...	29.79	52	50	W 7	c	6
Aberdeen ...	29.28	44	42	W 4	c	1	Dungeness ...	29.58	50	46	W 3	c	4
Shields ...	29.24	46	44	W 1	0	2	London ...	29.57	51	45	W 3	bc	*
Ardrossan ...	29.39	49	46	W 4	b	3	Yarmouth ...	29.50	48	44	W 3	b	3
Malin Head ...	29.43	45	41	W 3	bc	3	Jersey ...	29.77	47	45	W 6	c	5
Mullaghmore ...	29.47	47	45	W 5	0	4	Rochefort ...	29.99	52	47	W 8	bc	3
Belmullet ...	29.42	45	43	SSW 2	0	*							

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

The reports for yesterday morning showed that the depression noticed off the east of England had passed north-eastward to Sweden and that pressure ranged from 30.0 in. and more over South-eastern, Southern and South-western Europe, and from 29.4 in. and more over Lapland to about 29.0 in. in the central parts of two depressions, one of which lay near Stockholm and the other over the Orkney Islands. In the west and south-west the barometer was rising, while in the north it was falling. The winds reported varied from NW<sup>2</sup> (fresh to gale) at the western stations, to SW<sup>2</sup> moderate over the North Sea, Germany, and greater part of England, to SW<sup>2</sup> in Norway and Finland, and to E<sup>2</sup> over Lapland. In Spain and the south-west of France the wind was NW<sup>2</sup> light. The weather was very unsettled and variable; rain fell in many places and hail in some, while in a few localities the sky was temporarily clear. Temperature had decreased except in the west, and the 8 a.m. values varied from between 60° and 70° over the southern part of the Mediterranean and from 50° and more in the extreme west and south of France to rather below 40° over Central England and Northern Europe. The highest individual values were 69° at Algiers, 65° at Malta, 60° at Barcelona, 59° at Rhindia, 53° at Perpignan, 51° at Kiev, and 50° at Brest [At Luchal, Madeira, the temperature was 70°]. The lowest values were 33° at Archangel, 35° at Rodo, 36° at Haparanda, 37° at Moscow, and 39° at Loughborough (Leicestershire).

Later in the day pressure began to give way in the west, and a new and complex series of depressions began to advance over us from the Atlantic.

### 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 2<sup>nd</sup> Nov<sup>r</sup> 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.	
<b>SCANDINAVIA.</b>																			
Haparanda ...	29.46	34	Z	0	o		29.67	+ .38	31	31	- 4	Z	0	f	*		36	?	0.08
Hernösand ...	29.62	34	Z	0	b		29.84	+ .42	28	28	- 8	Z	0	b	*		43	?	—
Stockholm ...	29.77	39	S	2	b		29.86	+ .26	32	31	- 7	Z	0	f	*		46	?	—
Wisby ...	29.80	29	SW	4	b		29.78	+ .33	39	37	- 5	E	2	c	*		46	37	—
Bodo ...	29.43	36	ENE	2	bc		29.62	+ .34	42	39	+ 4	SW	5	r	3		43	34	—
Christiansund ...	29.49	28	ESE	2	b		29.60	+ .31	37	35	- 2	ESE	1	b	3		45	36	—
Skudesnaes ...	29.50	46	ESE	6	o		29.55	+ .14	46	41	0	ESE	6	o	5		48	46	—
Christiania Fjord (Fjord)	29.65	45	SW	2	b		29.75	+ .30	41	40	- 3	ESE	3	c	2		46	41	—
Skagen (The Scaw)	29.67	42	S	2	c		29.70	+ .21	43	40	+ 2	SSE	3	o	2		46	41	—
Faenø ...	29.63	38	SE	4	c		29.65	+ .01	40	39	- 2	E	4	c	*		48	37	—
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.11	47	SE	7	o		29.20	- .04	47	45	+ 7	SE	7	o	7		48	40	0.05
Stornoway ...	28.69	46	SE	6	o		28.89	+ .06	47	45	+ 2	SE	4	bc	4		48	43	0.12
Wick ...	28.85	48	SSE	9	o		29.04	+ .01	48	46	+ 1	SSE	8	c	8		49	41	—
Nairn ...	28.66	46	ESE	4	bc		28.99	- .03	46	44	0	ESE	1	e	2		48	42	—
Aberdeen ...	28.90	48	ESE	10	opq		29.06	- .05	47	45	0	ESE	8	bcq	7		50	46	0.01
Leith ...	28.79	45	ESE	5	c		29.01	- .09	45	43	- 1	SE	2	o	*		47	43	0.10
Shields ...	29.00	45	S	7	c		29.10	- .08	45	44	0	S	4	od	4		47	42	—
Spurn Head ...	29.16	46	SSE	7	o		29.17	- .11	45	44	- 1	SE	6	c	5		47	44	0.01
York ...	29.10	45	S	6	o		29.13	- .09	43	42	+ 1	SSE	3	r	*		47	41	0.02
Loughborough	29.13	45	SSW	4	o		29.16	- .07	42	41	- 2	SSE	2	c	*		46	39	0.05
<b>GERMANY.</b>																			
Ardrossan ...	28.72	49	S	8	cp		28.93	+ .01	46	44	- 1	SE	4	c	3		50	42	0.21
Malin Head ...	28.60	45	SW	4	cm		28.84	+ .12	42	42	- 1	S	4	omp	3		46	39	0.28
Mullaghmore ...	28.63	45	SSW	4	bc		28.91	+ .21	46	45	+ 4	SSW	5	c	5		49	40	0.18
Belmullet ...	28.60	46	SW	3	c		28.94	+ .27	47	45	+ 6	WNW	2	c	*		49	40	0.14
Donaghadee ...	28.75	45	SW	5	b		28.95	+ .13	39	38	- 9	WSW	3	bc	2		49	36	0.42
<b>FRANCE &amp; NETHERLANDS.</b>																			
Barrow-in-Furness	28.90	46	SE	7	o		28.98	- .02	44	43	- 3	SSE	6	c	*		48	37	0.07
Liverpool (Bidston)	29.06	45	SE	5	b		29.06	+ .09	43	42	- 2	SSE	3	c	3		49	42	0.08
Holyhead ...	28.87	40	SSW	5	bcq		29.04	+ .25	44	44	- 3	W	3	c	5		51	44	0.48
Parsonstown ...	28.76	44	SW	1	b		29.06	+ .25	43	42	- 3	SW	2	bc	*		51	38	0.22
Valencia ...	28.86	50	WSW	7	opq		29.18	+ .39	49	46	- 1	W	4	cpq	5		52	45	0.22
Roche's Point...	28.89	49	W	5	cp		29.16	+ .46	46	43	+ 1	W	4	b	4		53	44	0.20
Pembroke ...	28.97	51	SW	7	bc		29.11	+ .50	51	50	+ 4	W	5	bcq	6		52	41	0.30
Scilly ...	29.13	51	WSW	8	c		29.27	+ .30	50	47	+ 2	WNW	8	cp	6		53	47	0.05
Prawle Point ...	29.19	50	WSW	6	bc		29.34	+ .17	51	48	+ 4	W	6	bcw	6		53	44	0.18
Jersey ...	29.24	51	W	6	cm		29.34	+ .04	51	50	+ 2	WSW	6	cp	5		52	49	0.16
Hurst Castle ...	29.18	49	SW	4	c		29.24	- .05	49	48	+ 3	WSW	5	bcq	4		51	45	0.22
Dungeness ...	29.29	46	SSW	7	r		29.36	- .21	50	48	+ 2	WSW	4	c	4		50	44	0.20
London ...	29.16	45	SE	4	r		29.24	- .13	45	43	- 2	SSE	2	cr	*		49	42	0.26
Oxford ...	29.18	45	SSW	3	bc		29.20	- .03	43	41	- 5	S	3	bm	*		48	39	0.31
Cambridge ...	29.20	44	ESE	3	o		29.24	- .08	44	43	- 1	S	1	c	*		48	41	0.05
Yarmouth ...	29.01	46	S	7	c		29.29	- .17	46	45	0	S	4	c	4		47	43	0.03
Cuxhaven ...	29.64	44	S	3	o		29.54	- .11	39	38	- 1	S	4	f	*		41	37	—
Berlin ...	29.70	42	SE	1	bc		29.51	- .28	42	41	0	NNE	2	o	*		46	39	0.12
Wiesbaden ...	*	*	*	*	*		29.45	- .36	42	40	+ 6	E	1	o	*		45	39	0.04
Munich ...	29.54	37	NE	3	o		29.60	- .26	33	33	+ 3	SWW	2	c	*		41	30	0.12
<b>ITALY.</b>																			
The Helder ...	29.45	42	ESE	3	bc		29.39	- .23	39	38	- 1	SE	1	bc	1		46	39	—
Brussels ...	*	*	*	*	*		29.38	- .22	40	38	- 1	S	1	o	*		46	35	—
Cape Gris Nez...	29.26	44	SSW	7	r		29.30	- .22	43	42	+ 1	S	5	r	3		46	39	0.08
Paris ...	29.38	45	S	1	o		29.46	- .25	41	40	- 1	SW	2	o	*		47	41	0.08
Brest ...	29.32	49	W	5	o		29.42	- .25	50	48	- 1	WNW	7	o	6		55	45	—
Lorient ...	29.35	51	WNW	7	bc		29.45	+ .47	50	46	+ 1	WNW	7	c	5		54	45	0.20
Rochefort ...	29.47	53	WNW	8	c		29.51	+ .02	50	48	+ 3	W	4	bc	2		54	45	0.71
Belfort ...	29.71	40	W	1	b		29.58	- .27	45	43	+ 5	SW	1	o	*		47	34	0.08
Lyons ...	29.47	49	S	7	o		29.60	- .07	41	38	+ 5	SW	1	o	*		50	40	—
Nice ...	29.66	46	S	3	r		29.58	- .07	48	43	+ 2	E	1	o	5		55	41	0.32
Perpignan ...	29.63	48	Z	0	r		30.08	+ .23	44	43	+ 8	WNW	3	o	*		54	44	—
Biarritz ...	29.60	55	W	11	o		29.72	+ .08	50	46	- 3	W	7	r	5		57	45	1.25
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lisbon ...	29.96	59	WNW	5	c		30.01	+ .06	59	56	0	WNW	5	b	5		64	57	0.16

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



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY. 2<sup>nd</sup> NOVEMBER.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

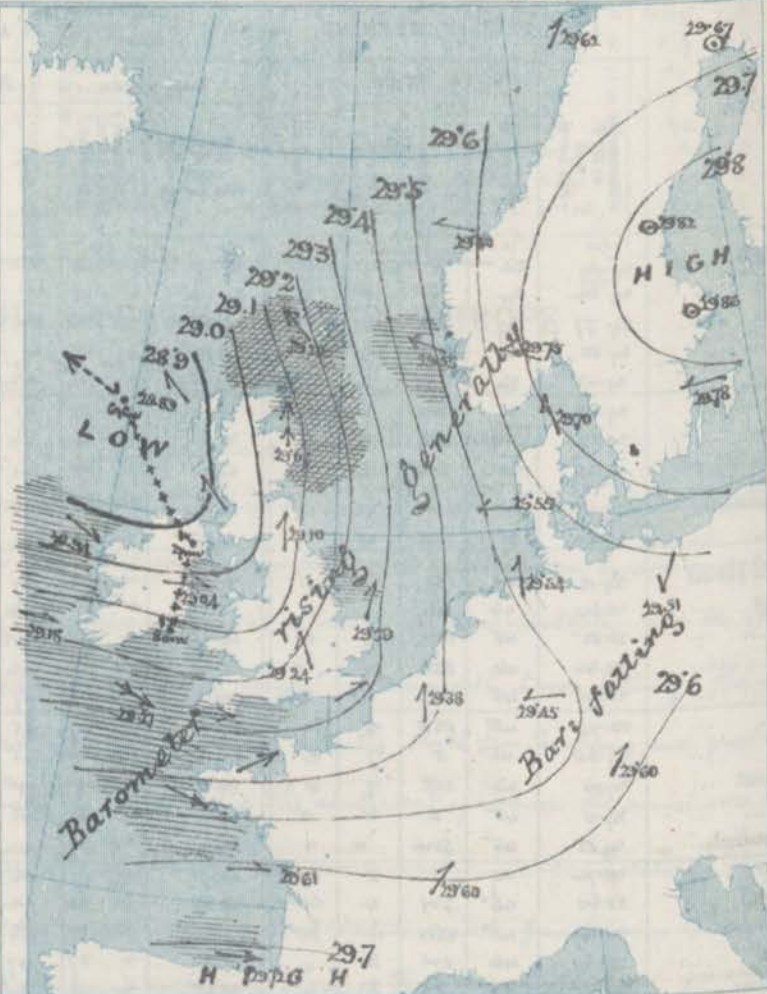
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 \*— forces above 10, \*— forces 8 to 10,  
 — forces 5 to 7, — forces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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.907
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

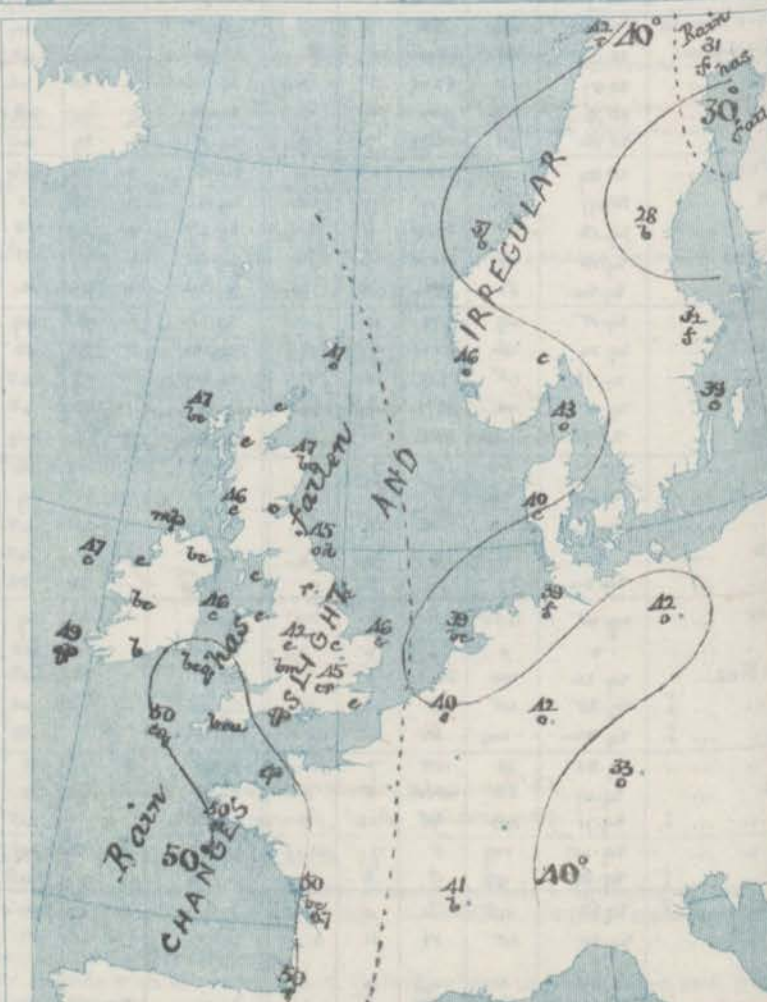
**Temperature**—Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather**—is shown by Letters of the Beaufort Scale.  
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	AT 8 A.M.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.0	38.0	41.2	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.8	43.6	41.9	3.56
LONDON.	49.0	37.3	41.3	39.9	2.14
Oxford	47.0	37.1	40.5	39.2	2.30
Cambridge	48.5	35.8	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 29.8 ins and upwards over Sweden; relatively high 29.7 ins and upwards over the extreme southwest of France.  
Lowest 28.9 ins, and less in a depression lay off the West of Holland and the North of Ireland.  
Gradients moderating gradually, Barometer rising at all but the Dutch and North German stations.

## TEMPERATURE

Highest 52° at Jersey, 51° at Pembroke and Bristol Point and 50° at Lill, Lorient, Rochefort and Brest.  
Lowest 28° at Helsingfors, 31° at Haparanda, 32° at Stockholm, 33° at Munich, 37° at Christiansund and 34° at Wisby and Cuxhaven.

## WIND

Moderate to strong from the W. at our western, southern and the French stations.  
Strong from S.E. and S. in the North and East of Great Britain, with gales in the East of Scotland.  
Light or moderate from E or S.E. on the eastern shores of the North Sea.

## WEATHER

Fair generally but showery in many parts of England and Ireland and foggy at Stockholm and Luchowen.  
Rain fell yesterday in all parts of our Islands and France, and lightning was seen at night at Holyhead and Rocher Pt.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep secondary disturbance noticed yesterday morning over the St. George's Channel, subsequently travelled in a northerly direction across the Irish Sea, but is now passing away in a northwest direction to the westward of Scotland.

The other secondary system reported yesterday over the Bay of Biscay, also moved northwards during the day but became much shallower and has now dispersed.

The barometer is at present rising generally and there are no indications of the approach of any new disturbance. Conditions are however still unsettled and the wind on our southwest coasts seems likely to back shortly.

## FORECASTS

For the 24 hours ending at NOON on 3<sup>d</sup> November 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>th</sup> gales, moderating gradually; fair generally, but some showers.	6 SCOTLAND WEST	SE <sup>th</sup> and S <sup>th</sup> winds, moderate; changeable, some showers.
1 SCOTLAND EAST	-----D-----D-----D-----	7 ENGLAND N. W.	SW <sup>th</sup> winds, moderate or fresh; changeable, so. w. showers.
2 ENGLAND N. E.	S <sup>th</sup> winds, moderate or fresh; changeable, some showers.	8 ENGLAND S. W.	W <sup>th</sup> winds, backing later; fair generally, but some showers.
3 ENGLAND EAST	-----D-----D-----D-----	9 IRELAND NORTH	Same as N <sup>o</sup> 7.
4 MIDLAND COUNTIES	-----D-----D-----D-----	10 IRELAND SOUTH	Same as N <sup>o</sup> 8.
5 ENGLAND SOUTH	SW <sup>th</sup> winds, moderate or fresh; fair generally, but some showers.	WARNINGS	The SOUTH CONE has been lowered this morning in all districts excepting Orkney.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.	
Skudeanaes ...	29.50	46	42	SSE	6	c	Holyhead ...	28.74	49	47	SSW	9	gmg	8
Sumburgh Head	29.44	46	46	SE	6	? s	Valencia ...	28.81	50	47	WSW	7	pg	7
Stornoway ...	28.79	47	47	SSE	7	r	Scilly ...	29.09	53	48	WSW	8	c	7
Aberdeen ...	28.98	49	44	SSE	10	og	Dungeness ...	29.03	48	44	SSW	7	c	7
Shields ...	28.96	47	44	S	8	o	London ...	29.24	45	43	SE	7	og	6
Ardrossan ...	28.61	48	46	ESE	8	r	Yarmouth ...	29.05	46	43	S	7	c	6
Malin Head ...	28.55	44	42	SE	3	o	Jersey ...	29.21	50	48	SSW	6	c	6
Mullaghmore ...	28.58	45	44	SW	4	b	Rochefort ...	29.32	48	47	SSE	8	r	4
Belmullet ...	28.59	49	45	W	4	bc								

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

The Continental Reports are not yet to hand

### 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 3<sup>rd</sup> November.

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.)	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.)	Force (0 to 12.)			Max.	Min.	
<b>SCANDINAVIA.</b>																			
Haparanda ...	29.99	27	2	0	6	b	30.07	+ .40	32	32	+ 1	S	2	3	b	*	36	24	-
Hernösand ...	29.94	36	2	0	6	b	29.73	- .11	41	40	+ 13	SE	6	7	T	*	45	24	0.39
Stockholm ...	29.75	43	E	4	T	T	29.74	- .12	45	43	+ 13	SSE	4	0	*	*	?	24	0.04
Wisby ...	29.65	46	SE	4	T	T	29.73	- .05	47	45	+ 8	S	4	0	*	*	48	32	0.12
Bodö ...	29.70	40	NE	2	b	b	29.69	+ .07	41	36	- 1	SE	4	0	*	*	43	34	0.04
Christiansund ...	29.50	38	SE	1	C	C	29.24	- .36	41	38	+ 4	SE	3	0	*	*	41	36	-
Skudesnaes ...	29.45	45	SE	6	C	C	29.15	- .40	45	40	- 1	SE	6	0	*	*	45	35	-
Christiania Fjord (Border)	29.60	42	NE	5	C	C	29.40	- .35	43	41	+ 2	SSE	3	T	2	*	43	34	0.29
Skagen (The Scaw)	29.40	39	SE	4	C	C	29.42	- .28	43	41	0	S	4	0	*	*	45	34	0.16
Faßø ...	29.41	41	SE	4	C	C	29.35	- .20	40	39	0	SSE	6	0	*	*	43	39	0.08
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.13	46	SE	8	0	0	28.72	- .48	45	44	- 2	SE	4	T	8	*	48	45	0.01
Stornoway ...	28.78	42	S	4	0	0	28.37	- .52	45	45	- 2	SE	4	T	6	*	49	43	0.08
Wick ...	28.91	47	SSE	8	0	0	28.52	- .52	46	46	- 2	SE	9	0	0	*	49	42	0.30
Nairn ...	28.87	46	SE	1	0	0	28.62	- .57	44	42	- 2	S	1	0	*	*	51	41	-
Aberdeen ...	29.01	48	SSE	6	0	0	28.51	- .55	46	44	- 1	S	5	0	*	*	49	44	0.34
Leith ...	28.99	42	S	1	0	0	28.51	- .50	43	41	- 2	SSE	1	0	*	*	50	41	0.05
Shields ...	29.09	46	S	3	0	0	28.64	- .46	45	43	0	S	3	0	*	*	48	42	0.17
Spurn Head ...	29.18	46	S	3	0	0	28.77	- .40	46	45	+ 1	S	4	0	*	*	47	43	0.23
York ...	29.15	45	S	2	0	0	28.71	- .42	46	42	+ 1	S	2	0	*	*	49	40	0.21
Loughborough	29.20	45	SW	3	0	0	28.78	- .38	43	43	+ 1	SSE	2	0	*	*	53	42	0.19
<b>GERMANY.</b>																			
Ardrassan ...	28.91	49	SSE	5	0	0	28.44	- .44	44	46	+ 1	SW	8	0	*	*	49	44	0.33
Malin Head ...	28.82	46	SW	4	0	0	28.30	- .54	42	41	0	SW	5	0	*	*	50	39	0.30
Mullaghmore ...	28.80	47	SW	5	0	0	28.40	- .51	43	40	- 3	SW	6	0	*	*	53	40	0.33
Belmullet ...	28.74	47	S	6	T	T	28.39	- .56	44	42	- 3	W	8	0	*	*	50	41	0.57
Donaghadee ...	28.94	48	SW	4	0	0	28.52	- .43	42	40	+ 3	SW	5	0	*	*	50	34	0.43
Barrow-in-Furness	29.05	47	SSE	6	C	C	28.52	- .36	47	44	+ 3	S	3	0	*	*	49	43	0.29
Liverpool (Bidston)	29.10	45	S	2	0	0	28.67	- .39	44	40	+ 1	SE	1	0	*	*	52	41	0.21
Holyhead ...	29.04	50	SW	4	0	0	28.62	- .42	48	44	+ 2	SSW	3	0	*	*	52	45	0.22
Parsonstown ...	28.89	47	SW	2	0	0	28.59	- .47	39	37	- 4	Z	0	0	*	*	51	38	0.41
Valencia ...	28.73	50	SE	8	Tm	Tm	28.61	- .57	47	43	- 2	WSW	7	0	*	*	53	42	0.80
Roche's Point...	28.94	50	SW	5	T	T	28.68	- .48	42	41	- 4	W	5	0	*	*	52	42	0.05
Pembroke ...	29.09	51	SW	5	C	C	28.67	- .44	46	46	- 5	WSW	8	0	*	*	52	45	0.52
Scilly ...	29.19	52	SSW	6	0	0	28.88	- .39	47	45	- 3	W	8	0	*	*	54	45	0.40
Prawle Point ...	29.30	50	SSW	6	C	C	28.85	- .39	48	46	- 3	SSW	6	0	*	*	53	37	0.07
Jersey ...	29.42	52	W	4	Cg	Cg	28.98	- .36	55	53	+ 3	SW	7	0	*	*	55	43	0.27
Hurst Castle ...	29.31	50	WSW	6	C	C	28.85	- .39	52	51	+ 3	SW	6	0	*	*	54	47	0.34
Dungeness ...	29.25	46	WSW	6	T	T	28.97	- .29	51	50	+ 1	SSW	4	T	5	*	52	46	0.25
London ...	29.30	45	SSW	2	0	0	28.87	- .37	49	48	+ 4	S	2	T	*	*	55	43	0.53
Oxford ...	29.23	42	SW	3	0	0	28.82	- .38	46	44	+ 3	S	3	0	*	*	53	42	0.11
Cambridge ...	29.26	44	S	1	0	0	28.83	- .41	48	48	+ 4	S	1	0	*	*	54	38	0.11
Yarmouth ...	29.27	46	SW	3	0	0	28.88	- .41	48	47	+ 2	SSW	6	0	*	*	49	44	0.11
Cuxhaven ...	29.51	40	SE	2	0	0	29.44	- .10	39	38	0	SSE	3	0	*	*	43	37	-
Berlin ...	29.64	45	S	4	0	0	29.67	+ .16	42	40	0	SSE	1	0	*	*	48	39	-
Wiesbaden ...	*	*	*	*	*	*	29.55	+ .10	35	33	- 4	SW	1	0	*	*	48	32	0.04
Munich ...	29.74	39	W	2	T	T	29.59	- .01	33	33	0	NE	2	0	*	*	41	?	0.16
<b>FRANCE &amp; NETHERLANDS.</b>																			
The Helder ...	29.38	44	S	3	0	0	29.12	- .24	44	42	+ 5	S	5	T	3	*	45	39	0.04
Brussels ...	*	*	*	*	*	*	29.23	- .15	47	42	+ 7	S	7	C	*	*	48	?	-
Cape Gris Nez...	29.47	48	SW	8	T	T	28.89	- .41	48	47	+ 5	SSW	9	0	*	*	52	43	0.32
Paris ...	29.56	48	SSW	5	0	0	29.30	- .15	44	43	+ 3	S	5	T	*	*	53	?	0.04
Brest ...	29.40	53	SW	7	0	0	29.06	- .36	51	49	+ 1	WSW	8	T	7	*	55	46	0.24
Lorient ...	29.50	52	W	7	C	C	29.12	- .33	54	53	+ 1	WSW	5	0	*	*	55	46	0.47
Rochefort ...	29.69	52	SW	4	C	C	29.87	- .24	53	53	+ 3	SSW	7	T	3	*	?	46	0.32
Belfort ...	29.67	44	W	1	0	0	29.58	0.00	30	30	- 15	W	1	0	*	*	50	?	-
Lyons ...	29.72	46	W	1	0	0	29.61	+ .01	35	34	- 6	?	?	?	*	*	54	33	-
Nice ...	29.58	49	Z	0	0	0	29.68	+ .10	46	42	- 2	C	3	0	*	*	54	41	-
Perpignan ...	29.76	52	WSW	3	0	0	29.66	?	44	41	- 2	WSW	1	0	*	*	61	36	-
Biarritz ...	29.75	56	WSW	5	0	0	29.47	- .25	55	52	+ 5	S	7	T	5	*	57	48	0.47
Cornuna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.95	63	NEW	5	T	T	29.93	- .08	62	60	+ 3	SW	5	C	6	*	64	?	0.16

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday 3<sup>rd</sup> November,

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.

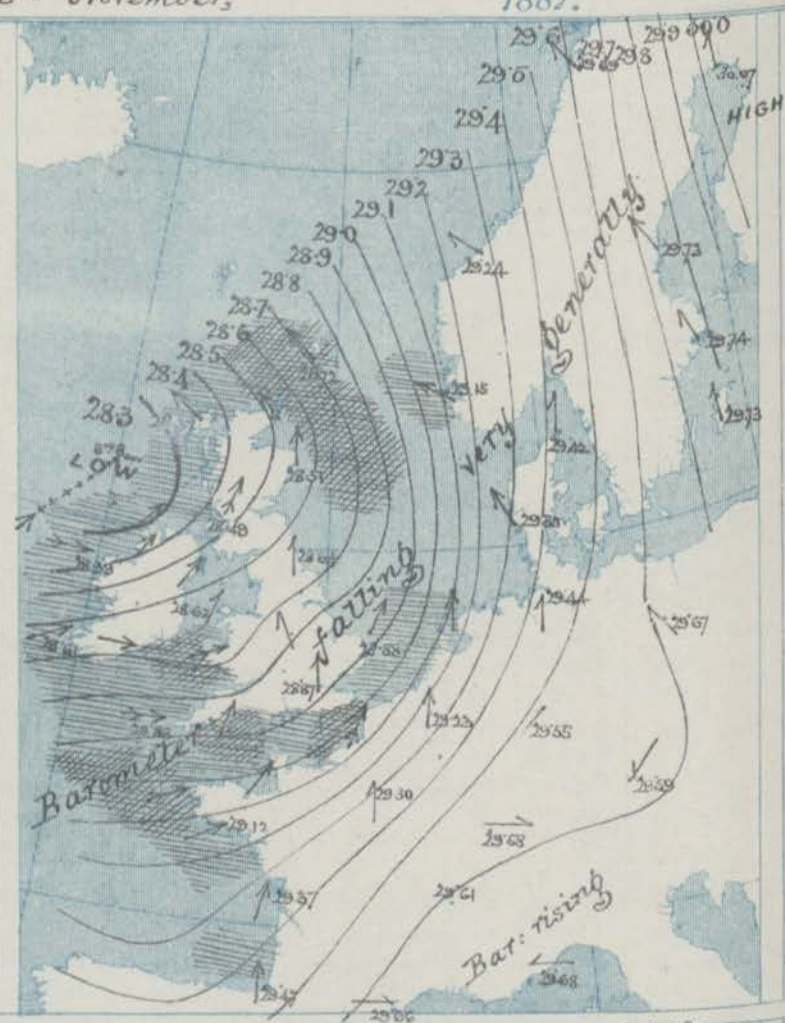
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.809
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

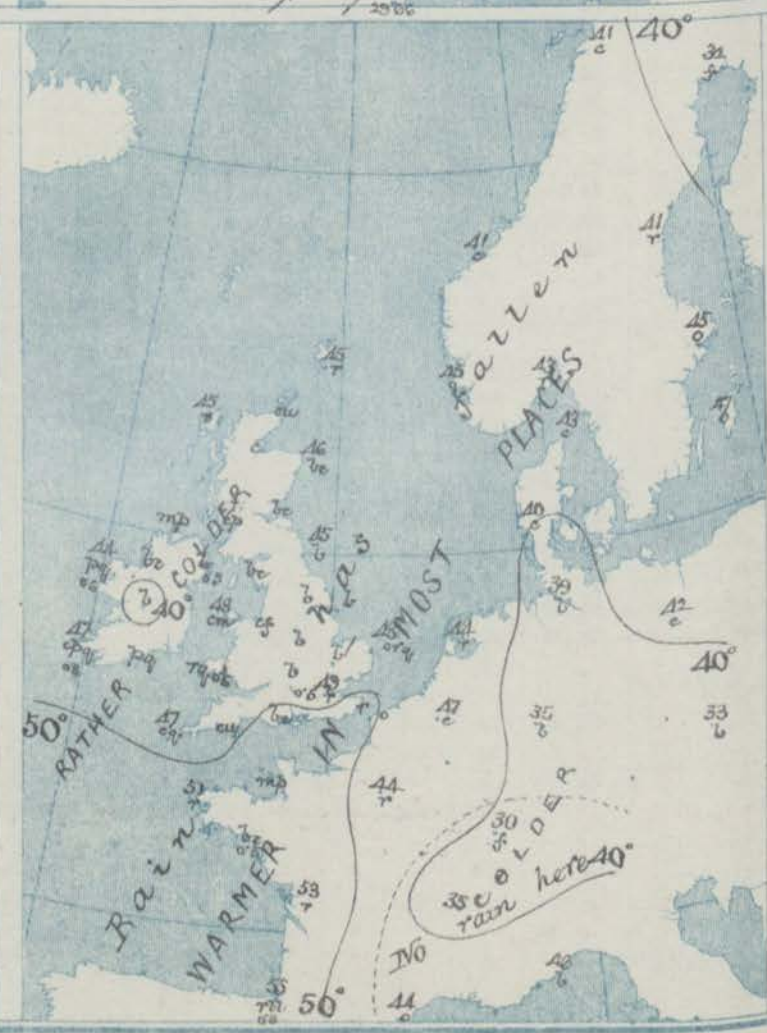
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max	Daily Min.	All 24 hr. Dry	Wet	
Sumburgh Head	45.0	36.0	11.0	39.4	4.24
Stornoway	45.0	36.2	10.3	39.1	4.60
Wick	45.6	35.4	10.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	35.0	41.2	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	35.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.09
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	37.4	38.8	42.6	41.6	3.15

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1860—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. and upwards, over the north of Sweden, 29.9 in. and upwards in the neighbourhood of Lisbon.  
Lowest, 28.3 in. and less, in a large depression having its centre off the coast of Scotland.  
Gradients steep generally, especially over the North Sea, the Netherlands, and the north of France. Barometer falling at nearly all stations.

## TEMPERATURE

Highest, 62° at Lisbon, 58° at Jersey and Biarritz, 57° at Boulogne, 53° at Harst Castle, and 51° at Dunkirk and West.  
Lowest, 30° at Belfast, 32° at Haparanda, 33° at Kuumik, 35° at Nieuwstadt and dyne, and 33° at Cuxhaven and Harburg.

## WIND

Strong to a gale from the W. in the extreme west and southwest of our Islands.  
Strong from S. over France, the Netherlands, and the east and south of England.  
Fresh from SE over Scandinavia and Denmark; strong to a gale from the same quarter in the north of Scotland.

## WEATHER

Fine at present over the east of Scotland and the north and east of England, as well as in South Germany and the east of France.  
Squally and showery in almost all other parts of Western Europe.  
The largest amount of rain measured this morning are 0.8 in. at Valencia, 0.6 in. at Helmslet, 0.5 in. at Donaghadee, Limerick, and in London.

## SEA

Exceedingly high off the north of Scotland, and rough or high on nearly all other coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression in the northwest seems likely to move northwards. A somewhat ill defined <sup>subsiding</sup> disturbance is, however, lying over the St. George's Channel, and another over the Bay of Biscay, while the Auris observations at Valencia seem to indicate the approach of a third subsidiary depression from the SW. Under these circumstances squally rough weather is likely to continue in most districts.

## FORECASTS

for the 24 hours ending at NOON on 4<sup>th</sup> Nov<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

10	SCOTLAND NORTH	SE gales, subsiding later; squally, rain at times.
11	SCOTLAND EAST	SE winds, strong, a gale in places; squally, showery.
12	ENGLAND N.E.	.....D°.....D°.....D°.....
13	ENGLAND EAST	.....D°.....D°.....D°.....
14	MIDLAND COUNTIES	Same as N°5
15	ENGLAND SOUTH	SE and SW strong winds or gales; squally, showery.

### DISTRICTS.

### FORECASTS.

16	SCOTLAND WEST	SE and SW gales, subsiding gradually; squally, showery.
17	ENGLAND N.W.	SE or SW winds, strong; squally, showery.
18	ENGLAND S.W.	SW and W strong winds and gales; squally, showery.
19	IRELAND NORTH	.....D°.....D°.....D°.....
20	IRELAND SOUTH	.....D°.....D°.....D°.....
WARNINGS		The south cone was hoisted yesterday on all coasts and the signals are still flying.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.55	47	41	SE 8	o	5	Holyhead ...	29.10	51	47	SW 4	bc	4
Sumburgh Head ...	29.17	47	43	SE 7	c	7	Valencia ...	29.10	51	45	SW 5	o g p	5
Stornoway ...	28.87	49	47	SE 4	bc	4	Scilly ...	29.31	52	48	W 5	c	6
Aberdeen ...	29.04	45	46	SSW 8	cp	7	Dungeness ...	29.28	52	50	SW 5	c	4
Shields ...	29.09	47	45	S 3	o	3	London ...	29.26	54	48	SW 3	bc	*
Ardrossan ...	28.94	48	47	SW 4	r	3	Yarmouth ...	29.27	48	47	S 4	bc	4
Malin Head ...	28.86	48	47	SW 3	c	4	Jersey ...	29.41	55	50	WSW 6	bc	5
Mullaghmore ...	28.93	49	47	SW 5	op	4	Rocheport ...	29.68	56	51	W 5	bc	2
Belmullet ...	28.93	50	45	WSW 3	o	*							

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

The reports for yesterday morning showed that pressure varied from between 30.1 ins. and 30.3 ins. over the Black Sea and S Russia, from about 30 ins. over the southern half of the Iberian Peninsula, and from about 29.8 ins. in London to rather below 29 ins. off our extreme northern coasts. The depression which lay over Ireland on the previous morning was passing away in a northwesterly direction, while that over the Bay of Biscay had apparently passed eastwards to Germany and become shallower. Thus, while as a whole, the main wind current over Western, North-western, and Central Europe was SW<sup>2</sup>, the local variations in direction were very considerable, ranging from NE. in North Germany, and from E. and SE. in the south of Norway to W. on our southwest coast. The force also was very variable, light over Central Europe, but strong to gale in the west and northwest. The weather was extremely unsettled except over Russia and SE Europe, and rain fell in many places. Temperature ranged from rather above 60° over the southern part of the Mediterranean and from nearly 50° on our southwest coast to a little below the freezing point over Sweden. The highest individual readings were 65° at Oran (Algiers), 63° at Malta, Rhindia and Algiers, 61° at Palma and San Fernando, 59° at Lisbon, 54° at Langunaires, and 50° at Scilly; the lowest at Hunsand, 31° at Haparanda, 32° at Stockholm and 33° at Archangel.

Later in the day a new and deep depression came towards Ireland, and S<sup>2</sup> gale again burst over the British Isles, with heavy rain; at the extreme northern stations the barometer fell to 28.3 ins.

### 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 4<sup>th</sup> November 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 3 P. 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. 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 ..	Ins.	°				Ins.	Ins.	°	°	°				*	°	°	Ins.
Hernösand ..														*			
Stockholm ..														*			
Wisby ..														*			
Bodo ..														*			
Christiansund...	29.49	41	ESE	4	C	29.50	- .19	45	40	+ .4	E	4	0	2	45	39	-
Skudesnaes ..	29.26	46	ESE	4	C	29.44	- .10	45	41	0	E	4	C	2	46	43	-
Christiania Fjord	29.02	48	SE	8	0	29.10	- .05	48	45	+ .3	SE	7	C	5	48	45	-
(Farder)	29.27	46	ESE	8	0	29.32	- .08	47	45	+ .4	SSE	3	0	4	?	?	0.12
Skagen (The Scaw)	29.27	46	S	6	0	29.32	- .10	45	44	+ .2	S	3	b	2	46	43	-
Faou ..	29.09	45	SSE	6	0	29.23	- .12	41	41	+ .1	SSE	5	b	*	46	39	0.12
Sumburgh Head	28.71	46	SE	4	b	28.77	+ .05	45	45	0	SE	5	C	6	47	45	0.16
Stornoway ..	28.54	43	S	3	b	28.81	+ .44	45	44	0	S	2	0	3	48	35	0.05
Wick ..	28.62	47	S	3	b	28.77	+ .25	42	42	- .4	W	2	C	3	50	40	0.30
Nairn ..	28.59	42	S	1	C	28.78	+ .36	41	38	- .3	SW	1	C	1	52	37	-
Aberdeen...	28.64	46	SE	3	Ch	28.79	+ .28	34	33	- .12	WSW	2	C	3	49	32	0.16
Leith ..	28.58	39	SE	1	C	28.79	+ .28	42	41	- .1	NW	1	cm	*	52	34	0.02
Shields ..	28.62	44	S	3	0	28.72	+ .05	43	42	- .2	SE	2	cm	3	49	40	0.08
Spurn Head ..	28.75	45	SSE	4	C	28.81	+ .04	45	44	- .1	S	4	b	4	50	42	0.26
York ..	28.67	43	S	2	b	28.76	+ .05	43	42	- .1	S	1	r	*	48	39	0.18
Loughborough	28.74	45	SW	4	C	28.82	+ .04	45	43	+ .2	SSW	2	C	*	51	40	0.19
Ardrossan ..	28.55	41	ENE	3	b	28.80	+ .31	41	40	- .6	NW	2	C	1	48	?	0.04
Malin Head ..	28.41	41	SE	4	ory	28.85	+ .55	48	45	+ .6	NNW	3	b	3	48	41	0.41
Mullaghmore ..	28.40	45	SW	6	r	28.93	+ .53	47	43	+ .4	NW	5	b	4	47	42	0.59
Bellinulet ..	28.47	46	WNW	6	r	29.03	+ .64	47	44	+ .3	NNW	2	b	*	49	43	0.55
Donaghadee ..	28.53	42	SW	2	b	28.80	+ .28	45	43	+ .3	NE	5	b	3	49	37	0.08
Barrow-in-Furness	28.59	44	SE	4	C	28.66	+ .04	45	44	- .2	SW	3	0	*	48	41	0.32
Liverpool (Bidston)	28.62	42	SSW	3	0	28.73	+ .06	45	44	+ .1	SSW	2	0	2	48	39	0.07
Holyhead ..	28.56	44	SE	1	r	28.73	+ .11	47	46	- .1	NNW	4	cpq	4	49	41	0.72
Parsonstown ..	28.53	44	L	0	b	28.97	+ .38	42	40	+ .3	L	0	b	*	49	38	0.08
Valencia ..	28.66	51	NW	5	cpq	29.13	+ .52	51	48	+ .4	NW	4	b	4	51	45	0.22
Roche's Point...	28.55	47	WNW	4	b	28.95	+ .30	48	44	+ .6	NW	7	b	5	53	42	0.18
Pembroke ..	28.59	47	SW	5	b	28.78	+ .11	50	50	+ .4	W	7	cpq	8	52	42	0.59
Scilly ..	28.72	50	WSW	8	0	29.06	+ .18	52	49	+ .5	W	8	cpq	6	53	45	0.07
Prawle Point ..	28.79	48	SSW	7	C	29.01	+ .16	50	47	+ .2	WSW	7	b	6	53	39	0.16
Jersey ..	29.02	51	WSW	7	opm	29.15	+ .17	53	49	- .2	W	7	cmq	6	55	48	0.22
Hurst Castle ..	28.85	52	WSW	8	cpq	28.99	+ .14	51	49	- .1	WSW	7	b	5	53	43	0.59
Dungeness ..	28.94	52	W	6	b	29.01	+ .04	51	48	0	W	5	C	4	53	48	0.41
London ..	28.94	48	SW	6	cpq	28.97	+ .10	47	45	- .2	SW	3	b	*	51	42	0.63
Oxford ..	28.78	47	SW	4	0	28.91	+ .09	46	44	0	SSW	4	pq	*	50	44	0.21
Cambridge ..	28.83	44	SW	2	b	28.91	+ .08	46	44	- .2	S	2	C	*	52	41	0.40
Yarmouth ..	28.99	45	SW	3	b	28.92	+ .04	47	45	+ .1	SW	4	b	4	53	43	0.51
Cuxhaven ..	29.20	43	S	7	r	29.28	- .16	44	43	+ .5	S	3	b	*	47	36	0.16
Berlin ..	29.38	49	SE	4	b	29.52	- .15	47	46	+ .5	SSE	2	0	*	54	?	0.08
Wiesbaden ..	*	*	*	*	*	29.45	- .10	46	45	+ .11	SE	1	0	*	50	?	0.08
Munich ..	29.47	40	SW	2	C	29.60	+ .01	42	41	+ .9	E	4	0	*	46	32	-
The Helder ..	29.02	46	SSW	3	b	29.05	- .07	47	46	+ .3	S	5	C	3	?	43	0.12
Brussels ..	*	*	*	*	*	29.19	- .04	49	46	+ .2	SSW	5	0	*	49	46	0.39
Cape Gris Nez...	28.97	50	W	9	0	29.02	+ .13	49	49	+ .1	SW	9	r	7	54	46	0.32
Paris ..	29.23	50	SSW	4	b	29.28	- .02	49	46	+ .5	SSW	5	b	*	54	46	0.12
Brest ..	29.03	50	WSW	8	r	29.24	+ .18	53	49	+ .2	WNW	7	0	7	55	45	0.32
Lorient ..	29.13	53	SW	8	C	29.29	+ .17	53	50	- .1	NW	8	C	Y	55	50	2.52
Rockfort ..	29.42	53	WSW	7	0	29.47	+ .10	52	50	- .1	W	7	C	2	61	46	0.35
Belfort ..	29.45	40	W	1	0	29.56	- .02	46	46	+ .16	W	3	r	*	51	28	0.24
Lyons ..	29.55	47	S	9	0	29.54	- .07	46	46	+ .11	S	3	r	*	48	?	0.35
Nice ..	29.74	49	E	1	0	29.69	+ .01	46	46	0	ENE	5	r	3	59	45	0.04
Perpignan ..	29.68	50	E	1	0	29.58	- .08	49	48	+ .5	N	1	0	*	55	47	0.08
Biarritz ..	29.56	59	SW	5	0	29.60	+ .13	57	52	+ .2	W	8	C	Y	63	50	0.39
Corunna ..	*	*	*	*	*	29.99	+ .06	50	52	- .6	NNW	4	b	6	66	55	0.47
Lisbon ..	29.87	63	WSW	7	r												

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



# WEATHER CHARTS

for 8 a.m. on

Friday 4 November

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Isotherms 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.

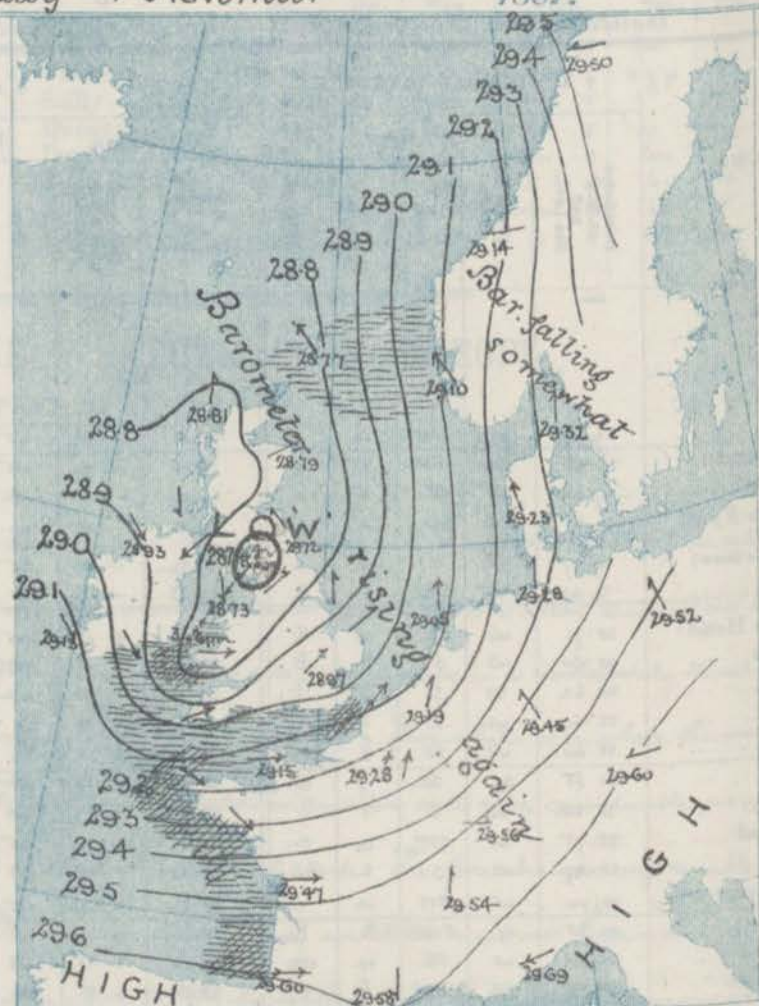
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
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Valencia	29.880
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Pembroke	29.867
Scilly	29.890
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.5	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 29.99 ins. at Lisbon, Swedish reports not yet received but pressure apparently high there also.  
Lowest 28.7 ins. and less in a small depression lying off the Lancashire and Cumberland coasts below 29.0 ins. in most parts of the British Isles.  
Gradients rather steep except over Scotland and the North and East of England. Barometer rising except Norway.

### TEMPERATURE

Highest 57° at Biarritz, 56° at Lisbon, 53° at Jersey, Brest and Lorient and 52° at Rochefort. The Scilly report has not yet arrived.  
Lowest 34° at Aberdeen, 41° at Fano, Haism and Ardrossan, and 42° at Ulster, Leith and Munich.

### WIND

Fresh or strong from NW over West coast, strong to a gale from W over the Channel and Bay of Biscay.  
Light or moderate from S or SE over North and East coasts, and SE on the eastern shore of the North Sea.  
[Fresh to strong gales were experienced last evening or night at all our southern stations.]

### WEATHER

Dull and rainy over the West and North of England, and also in the East and South of France.  
Fair in most other localities, but showery at some of our southern stations.  
[Heavy rain fell generally yesterday, with thunder and lightning over our midland and southern counties in the evening.]

### SEA

Very high at Pembroke and rough in the West and South generally as well as at Lumburgh Head.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression over the Irish Sea is apparently dispersing, and the barometer is rising generally; quickly in the West.

There are at present no indications of the advance of any new disturbance, but conditions are exceedingly unsettled; and although the warning signals have been lowered in the North and East they are still flying on all our western and southern coasts.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> November 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Light breezes from S. or SW.; fair generally, but local showers.
1	SCOTLAND EAST	-----D'-----D'-----D'-----
2	ENGLAND N.E.	S <sup>W</sup> winds, moderate; changeable, some showers.
3	ENGLAND EAST	-----D'-----D'-----D'-----
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	SW winds, strong; changeable, some showers.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Light or moderate breezes; direction doubtful; changeable, some showers.
7	ENGLAND N.W.	NW to W winds, fresh; changeable, some showers.
8	ENGLAND S.W.	Strong NW winds, moderating and backing later; fair to unsettled and some rain.
9	IRELAND NORTH	-----D'-----D'-----D'-----
10	IRELAND SOUTH	-----D'-----D'-----D'-----
WARNINGS		
The SOUTH CONE has been lowered this morning in districts 0 to 3 and 6, but is still flying in districts 5 and 7 to 10.		

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.05	48	44	SE 8	0	5	Holyhead ...	28.59	48	43	SEW 4	6 p p	4
Sumburgh Head	28.66	45	45	SE 6	1	8	Valencia ...	28.44	50	49	SW 5	e q p	5
Stornoway ...	28.45	46	46	S 6	0	6	Scilly ...	28.78	50	48	W 8	T q	6
Aberdeen ...	28.59	48	45	S 5	6	6	Dungeness ...	28.87	52	48	SW 6	c p	4
Shields ...	28.61	47	45	SE 3	1	3	London ...	28.85	51	46	W 6	6 c	*
Ardrossan ...	28.51	45	46	SSW 4	c	3	Yarmouth ...	28.80	48	47	SSW 3	e	5
Malin Head ...	28.37	44	41	S 5	c	4	Jersey ...	29.05	55	50	WSW 5	6	5
Mullaghmore	28.38	45	42	SSW 6	op	4	Rocheport ...	29.39	59	55	W 8	0	4
Belmullet ...	28.36	46	45	SW 6	op	*							

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

The reports for yesterday morning showed that pressure varied from 30.3 in: and more over Southern Russia, and from a little above 30 in: over the extreme south of Spain and west of Algeria to about 28.9 in: in a large depression, the centre of which lay off the north-west of the British Isles. Rough stormy winds prevailed over Northern Europe, blowing from SE. at the more northern stations, and from SW. in the south; in the latter region the wind was particularly fitful and squally. Heavy showers of rain were reported in many districts, separated by intervals of bright weather. Over Central and Eastern Europe the winds were light and the weather fine, but over the Mediterranean heavy showers were reported in many places. Temperature varied from 60° and more in the south and west of Spain and at Constantinople, but from less than 60° at most of the Mediterranean stations to a little below the freezing point over Northern Europe and also over some of the eastern parts of France. The highest individual values were 66° at Constantinople and San Fernando, 63° at Algiers and Brindisi, 62° at Bilbao and also at Legna, 58° at Malta and Cagliari, 55° at Langunaire, 54° at Naples, 51° at Florence, and 48° to 51° at stations in the English Channel; the lowest were 30° at Rochfort, 31° at Uleaborg, 32° at Hakaranda, 33° at Kuopio, and 34° at Carael.

Later in the day a new but small secondary depression advanced quickly over the south of Ireland from the south-westward, causing a renewal of the gales in the south-west and south, together with thunderstorms and hail 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 Saturday 5<sup>th</sup> November 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. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.	Barometer.	Shade Temp.	WIND.	Barometer.	Shade Temp.	WIND.	Barometer.	Shade Temp.	WIND.
			Dir.	Force (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.										
Haparanda ...	29.74	40	SE	2	7	29.76	-14	41	41	+5	8	2	8	2	8	2	8	2	8
Hernösand ...	29.65	43	SSE	4	5	29.79	+17	42	42	-2	2	0	2	0	2	0	2	0	2
Stockholm ...	29.71	48	SE	2	0	29.77	+19	47	46	-1	SE	2	SE	2	SE	2	SE	2	SE
Wisby ...	29.73	46	SE	4	60	29.71	+15	48	47	0	SSE	4	SSE	4	SSE	4	SSE	4	SSE
Bodö ...	29.82	47	E	2	C	29.84	+04	46	42	+1	SSE	2	SSE	2	SSE	2	SSE	2	SSE
Christiansund ...	29.81	42	NNE	1	C	29.44	+30	45	42	0	E	2	E	2	E	2	E	2	E
Skudesnaes ...	29.24	49	SSE	8	T	29.89	+29	49	49	+1	SSE	4	SSE	4	SSE	4	SSE	4	SSE
Christiania Fjord (Færd)	29.46	48	SE	8	C	29.55	+23	49	46	0	SE	2	SE	2	SE	2	SE	2	SE
Skagen (The Scaw)	29.48	47	S	3	C	29.51	+19	46	46	+1	S	2	S	2	S	2	S	2	S
Fanø ...	29.43	45	SSE	5	C	29.45	+22	46	45	+5	SSE	4	SSE	4	SSE	4	SSE	4	SSE
Sumburgh Head	29.00	46	SE	1	0	29.21	+44	45	44	0	2	0	2	0	2	0	2	0	2
Stornoway ...	28.96	47	NW	5	T	29.19	+38	45	45	0	NW	3	NW	3	NW	3	NW	3	NW
Wick ...	28.85	45	W	1	0	29.19	+42	43	43	+1	NW	1	NW	1	NW	1	NW	1	NW
Nairn ...	28.96	45	SW	2	0	29.18	+40	45	43	+4	SW	1	SW	1	SW	1	SW	1	SW
Aberdeen ...	28.98	38	SW	1	6	29.15	+36	42	41	+8	W	1	W	1	W	1	W	1	W
Leith ...	29.05	43	NW	1	60	29.24	+45	42	41	0	W	1	W	1	W	1	W	1	W
Shields ...	29.00	45	NW	2	0	29.24	+52	43	42	0	W	2	W	2	W	2	W	2	W
Spurn Head ...	29.02	46	WSW	3	T	29.43	+62	45	44	0	WSW	4	WSW	4	WSW	4	WSW	4	WSW
York ...	29.02	45	SW	1	0	29.34	+58	45	44	+2	SW	1	SW	1	SW	1	SW	1	SW
Loughborough	29.11	43	NW	2	60	29.43	+61	42	41	-3	W	3	W	3	W	3	W	3	W
Ardrrossan ...	29.07	49	NW	3	6	29.27	+47	47	46	+6	WNW	3	WNW	3	WNW	3	WNW	3	WNW
Malin Head ...	29.17	48	NNW	4	60	29.32	+47	46	44	-2	NNW	3	NNW	3	NNW	3	NNW	3	NNW
Mullaghmore ...	29.26	48	NW	7	60	29.36	+43	42	41	-5	E	4	E	4	E	4	E	4	E
Belmullet ...	29.37	47	NNW	4	op	29.35	+32	43	40	-4	SE	3	SE	3	SE	3	SE	3	SE
Donaghadee ...	29.15	44	NW	3	C	29.37	+57	40	39	-5	WSW	3	WSW	3	WSW	3	WSW	3	WSW
Barrow-in-Furness	29.08	44	N	3	0	29.33	+67	47	45	+2	NW	3	NW	3	NW	3	NW	3	NW
Liverpool (Bidston)	29.12	46	NW	3	0	29.40	+67	45	44	0	WSW	4	WSW	4	WSW	4	WSW	4	WSW
Holyhead ...	29.17	49	NW	5	60	29.43	+70	46	44	-1	W	3	W	3	W	3	W	3	W
Parsonstown ...	29.27	47	NW	2	C	29.43	+46	38	37	-4	2	0	2	0	2	0	2	0	2
Valencia ...	29.47	52	NW	4	og	29.35	+22	50	47	-1	SSE	4	SSE	4	SSE	4	SSE	4	SSE
Roche's Point...	29.34	50	NW	6	60	29.44	+46	50	47	+2	SW	4	SW	4	SW	4	SW	4	SW
Pembroke ...	29.23	52	W	5	C	29.49	+71	50	48	0	WNW	3	WNW	3	WNW	3	WNW	3	WNW
Scilly ...	29.38	53	WNW	7	C	29.57	+51	51	50	-1	SSW	4	SSW	4	SSW	4	SSW	4	SSW
Prawle Point ...	29.34	47	NW	6	6	29.58	+57	49	47	-1	WSW	4	WSW	4	WSW	4	WSW	4	WSW
Jersey ...	29.37	53	NW	5	cpq	29.63	+48	53	49	0	WNW	4	WNW	4	WNW	4	WNW	4	WNW
Hurst Castle ...	29.33	47	WNW	5	60	29.56	+57	45	45	-6	WNW	3	WNW	3	WNW	3	WNW	3	WNW
Dungeness ...	29.20	51	W	6	0	29.51	+30	43	42	-8	W	3	W	3	W	3	W	3	W
London ...	29.17	47	SW	4	op	29.52	+55	40	40	-7	W	2	W	2	W	2	W	2	W
Oxford ...	29.25	41	W	8	6	29.51	+60	40	39	-6	SW	1	SW	1	SW	1	SW	1	SW
Cambridge ...	29.10	47	SW	2	T	29.48	+57	40	40	-6	SW	1	SW	1	SW	1	SW	1	SW
Yarmouth ...	29.10	49	SSW	4	6	29.42	+50	44	43	-3	W	3	W	3	W	3	W	3	W
Cuxhaven ...	29.06	43	S	2	6	29.51	+23	44	40	0	S	1	S	1	S	1	S	1	S
Berlin ...	?	51	2	0	0	29.65	+13	46	45	-1	SW	1	SW	1	SW	1	SW	1	SW
Wiesbaden ...	*	*	*	*	*	29.69	+24	45	43	-1	2	0	2	0	2	0	2	0	2
Munich ...	29.58	46	SW	2	0	29.73	+13	42	41	0	SW	3	SW	3	SW	3	SW	3	SW
The Helder ...	29.29	46	SSE	1	6	29.42	+37	46	45	-1	SW	4	SW	4	SW	4	SW	4	SW
Brussels ...	*	*	*	*	*	29.58	+39	43	43	-6	SSW	1	SSW	1	SSW	1	SSW	1	SSW
Cape Gris Nez...	29.19	49	SW	8	C	29.52	+50	48	47	-1	NW	5	NW	5	NW	5	NW	5	NW
Paris ...	29.43	49	E	4	6	29.68	+40	?	?	?	SSW	?	SSW	?	SSW	?	SSW	?	SSW
Brest ...	29.45	52	WNW	7	0	29.69	+45	54	49	+1	NW	1	NW	1	NW	1	NW	1	NW
Lorient ...	29.48	52	WNW	8	6	29.74	+45	52	50	-1	WNW	3	WNW	3	WNW	3	WNW	3	WNW
Rocheport ...	29.63	54	WNW	8	C	29.84	+37	52	50	0	W	5	W	5	W	5	W	5	W
Belfort ...	29.60	45	W	1	60	29.76	+20	44	43	-2	WNW	1	WNW	1	WNW	1	WNW	1	WNW
Lyons ...	29.65	43	S	1	6	29.80	+26	41	39	-5	W	1	W	1	W	1	W	1	W
Nice ...	29.54	48	ENE	3	T	29.58	+11	46	44	0	E	3	E	3	E	3	E	3	E
Perpignan ...	29.70	55	NW	5	6	29.85	+27	54	46	+5	NW	4	NW	4	NW	4	NW	4	NW
Biarritz ...	29.76	55	W	12	T	29.91	+31	54	51	-3	WSW	7	WSW	7	WSW	7	WSW	7	WSW
Corunna ...	*	*	*	*	*	29.88	+09	57	55	0	S	5	S	5	S	5	S	5	S
Lisbon ...	30.12	57	WNW	3	60	30.12	+13	57	52	+1	WNW	3	WNW	3	WNW	3	WNW	3	WNW

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 5<sup>th</sup> November.

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

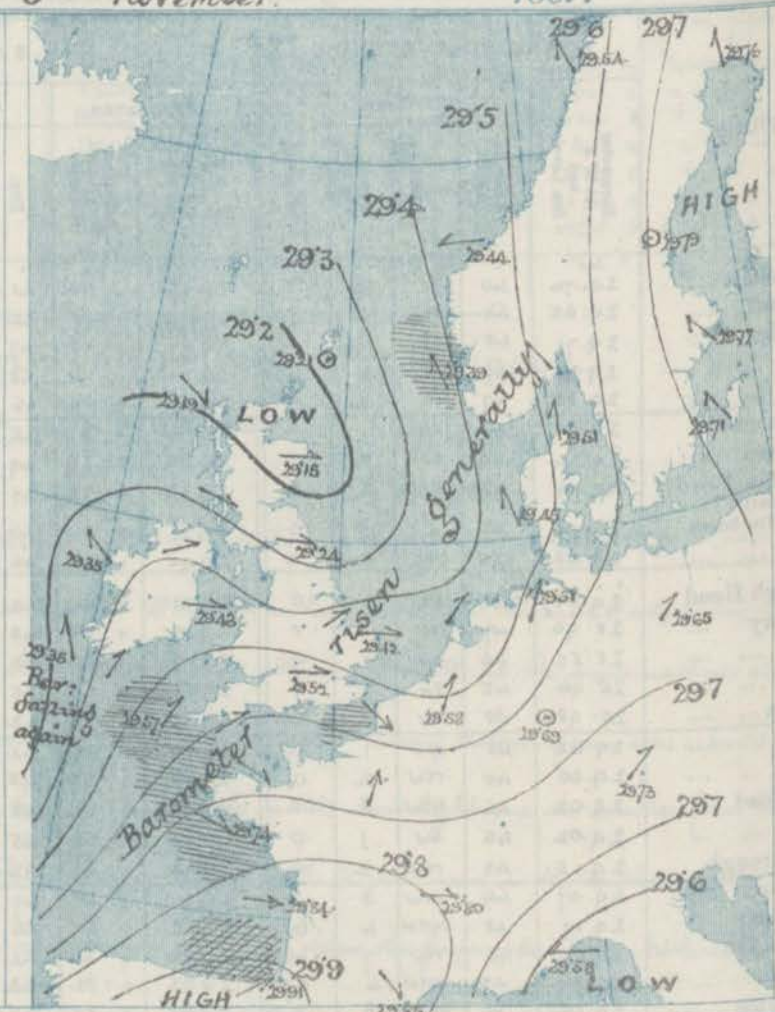
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS. in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.788
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.802
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m. Dry	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.0	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.0	40.9	39.4	2.11
Shields	48.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 70 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in: and upwards, in the neighbourhood of Lisbon; 29.7 in: and upwards over Sweden.  
Lowest, 29.2 in: and less, over the north and east of Scotland; relatively low 29.4 in: and less to the W. of Ireland, 29.6 in: and less over the Gulf of Genoa.  
Gradient increasing in southwest. Barometer falling quickly at Kilmuir, rising elsewhere.

## TEMPERATURE

Highest, 57° at Lisbon, 54° at Rheims, Biarritz, and Lufpignan and 53° at Jersey.  
Lowest, 38° at Kilmuir, 40° at Donaghadee, Oxford, Cambridge, and in London, and 41° at Haparanda and Lyngö.

## WIND

Moderate SE<sup>3</sup> in west of Ireland, and SW<sup>2</sup> on most other parts of our southern coasts.  
Light or moderate from W. in the east and south of Great Britain and the coast of France.  
Moderate SE<sup>1</sup> in Scandinavia and Denmark.

## WEATHER

Foggy in Sweden, showery in the north of our islands and dull on our extreme south-west coasts.  
Fair or fine in nearly all other localities.  
Showers fell generally yesterday and lightning was seen in the southwest of England at night.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The falling barometer and backing winds in Ireland indicate the approach of another deep depression towards our southwest coasts.

The disturbance is apparently secondary, to the low-pressure system in the north, and as it moves eastwards a considerable increase of wind is likely to occur on all our southwest and south coasts with heavy rain in many places.

## FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> Nov<sup>r</sup> 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	W <sup>1</sup> to S <sup>2</sup> or SE <sup>2</sup> winds, force doubtful at present; fair at first, unsettled later.	6 { SCOTLAND WEST	Same as No 0
1 { SCOTLAND EAST	-----D°-----D°-----D°-----	7 { ENGLAND N. W.	SW <sup>2</sup> to SE <sup>2</sup> winds, freshening considerably fair to rainy.
2 { ENGLAND N. E.	W <sup>1</sup> to S <sup>2</sup> winds, increasing in force; fair to unsettled and rainy.	8 { ENGLAND S. W.	S <sup>1</sup> winds, increasing to a gale; and afterwards shifting to W or NW; squally, rainy.
3 { ENGLAND EAST	-----D°-----D°-----D°-----	9 { IRELAND NORTH	SE <sup>2</sup> winds, shifting to the W <sup>nd</sup> ; unsettled, some rain.
4 { MIDLAND COUNTIES	Same as No 5	10 { IRELAND SOUTH	Same as No 8.
5 { ENGLAND SOUTH	SW <sup>2</sup> to S <sup>2</sup> winds, increasing to a gale; fair to squally and rainy.	WARNINGS	
		The S. cone has been hoisted this morning in districts 5, 8, 10 and part of 7.	

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.17	50	45	SSW 6	0	5	Holyhead ...	29.03	49	45	W 6	c q p	6
Sumburgh Head ...	28.92	47	45	SE 2	c	5	Valencia ...	29.37	53	48	W 4	c q p	5
Stornoway ...	28.92	46	46	N 5	0	4	Scilly ...	29.28	53	50	W 8	c	6
Aberdeen ...	28.93	45	44	SW 2	6	2	Dungeness ...	29.10	52	50	W 6	c	4
Shields ...	28.89	45	44	Z 0	2	0	London ...	29.04	52	49	SSW 5	c	*
Ardrossan ...	28.97	48	45	W 2	c	1	Yarmouth ...	29.04	52	49	SSW 4	bc	4
Malin Head ...	29.15	49	47	W 3	bc	3	Jersey ...	29.19	54	50	W 7	c	6
Mullaghmore ...	29.07	50	48	W 6	c p	5	Rochefort ...	29.56	57	52	W 8	0	2
Belmullet ...	29.18	49	48	W 7	c p	*							

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

Yesterday morning's reports showed that pressure remained high (30.3 to 30.4 ins.) over Russia and about 30.0 ins. over the southwestern part of the Spanish Peninsula. The low pressure systems over the British Isles were beginning to move away and to fill up. A new shallow disturbance, however, had appeared over the northern part of the Mediterranean. The barometer was consequently rising except over Scandinavia, the change being very decided at the most western stations, and while strong S winds and gales still prevailed over the North Sea and Baltic, and W gales in the English Channel, the wind had veered to NW. over the western part of the British Isles and Brittany, and though storm had lulled considerably. In many places the sky had cleared, but in some rain still fell, and as a whole the appearance of the weather was not of a settled character. Thunder and lightning had occurred at several western stations. Temperature showed no very decided change in the British Isles, but had risen considerably over France, from which place the front of Thursday had disappeared. It was unsteady generally and varied from 60° and more both over the SW and E parts of the Mediterranean, and from upwards of 50° over the southern and southwestern part of the British Isles, to rather below the freezing point over N. Russia. The highest individual values reported were 66° at Algiers, 63° at Oran, Palma and Brindisi, 61° at Malta, 59° at Barcelona, San Fernando and Oporto, 57° at Biarritz, 53° at Jersey and Brest, and 52° at Scilly. [At Lunel, Madeira the thermometer was as high as 71°]. The lowest values were 31° at Archangel, 36° at Haparanda, and 37° at Uleaborg.

During the day showers of rain fell in most places, and at night the barometer ceased rising in the west, and the wind there began to back again.

### 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 6<sup>th</sup> Nov.

1887.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 55° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
<b>SCANDINAVIA.</b>																			
Haparanda ...	29.76	41	S	2	r		29.62	-.14	42	42	+ 1	S	6	r	*		37	0.29	
Hernösand ...	29.64	44	S	6	r		29.70	-.09	44	43	+ 2	SW	2	c	*		46	41	0.24
Stockholm ...	29.76	48	ESE	2	a		29.84	+ .07	46	45	- 1	S	2	o	*		50	43	0.08
Wisby ...	29.76	50	S	4	o		29.85	+ .14	49	47	+ 1	S	2	a	*		52	43	0.18
Bodo ...	29.56	44	E	2	o		29.45	-.09	42	40	- 4	ENE	1	r	1		46	?	-
Christiansund ...	29.40	45	ENE	2	a		29.55	+ .11	45	42	- 3	SW	7	a	3		50	43	-
Skudesnaes ...	29.36	47	SE	6	o		29.63	+ .24	47	46	- 2	SE	4	o	4		50	46	-
Christiania Fjord (Færder)	29.51	47	S	5	bc		29.72	+ .17	47	46	- 1	SSE	3	c	4		?	46	0.98
Skagen (The Sow)	29.80	46	SSW	3	o		29.73	+ .07	44	43	- 2	SSW	1	b	1		46	43	0.08
Faenø ...	29.62	45	S	4	c		29.68	+ .06	39	38	- 7	SSE	4	b	*		48	39	-
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.22	47	Z	0	o		29.53	+ .32	47	46	+ 2	NNE	1	o	2		48	42	0.01
Stornoway ...	29.23	46	NW	2	o		29.47	+ .24	46	46	+ 1	E	4	o	4		49	39	0.10
Wick ...	29.22	43	W	1	bc		29.52	+ .30	47	46	+ 4	E	3	o	3		49	40	0.03
Nairn ...	29.22	42	Z	0	o		29.44	+ .22	43	43	- 2	Z	0	o	1		50	38	0.03
Aberdeen ...	29.20	44	WNW	1	o		29.42	+ .22	45	44	+ 3	NE	4	o	2		48	38	0.01
Leith ...	29.25	43	W	1	c		29.31	+ .07	46	46	+ 4	E	3	op	*		50	41	0.11
Shields ...	29.30	47	SW	2	c		29.21	-.09	48	47	+ 5	E	4	r	4		51	41	0.26
Spurn Head ...	29.38	46	SSE	4	b		29.28	-.10	45	44	- 1	SSW	3	bc	3		49	43	0.31
York ...	29.46	46	S	1	a		29.27	-.07	45	44	- 1	S	1	o	*		53	42	0.37
Loughborough	29.38	46	SSE	2	o		29.29	-.10	42	41	- 1	SSW	2	b	*		53	41	0.42
<b>GERMANY.</b>																			
Arrossan ...	29.22	48	SE	2	o		29.29	+ .07	45	44	- 2	ENE	5	omf	3		51	38	0.19
Malin Head ...	29.15	46	SE	4	om		29.30	+ .15	45	44	- 1	NE	5	omf	5		48	44	0.03
Mullaghmore ...	29.04	44	E	6	rg		29.21	-.15	48	46	+ 6	NE	9	c	6		50	41	0.65
Beltmullet ...	28.94	45	SE	7	o		29.29	-.06	48	44	+ 5	NNE	10	o	*		49	42	0.40
Donaghadee ...	29.29	44	S	3	c		29.25	-.04	47	47	+ 7	E	5	r	4		52	40	0.14
<b>FRANCE &amp; NETHERLANDS.</b>																			
Barrow-in-Farress	29.27	46	ESE	3	o		29.23	-.04	44	44	- 3	ENE	2	bcf	*		50	44	0.26
Liverpool (Bidston)	29.26	46	SSE	4	r		29.25	-.01	42	41	- 3	ESE	1	b	2		51	44	0.21
Holyhead ...	29.17	46	SSE	4	rmv		29.21	-.04	44	43	- 2	ESE	1	c	2		51	43	0.30
Parsonstown ...	29.01	47	Z	0	r		29.11	-.02	39	39	+ 1	Z	0	r	*		47	37	0.47
Valencia ...	29.14	49	W	5	cpq		29.23	-.09	46	44	- 4	NNE	3	c	3		54	43	0.48
Roche's Point...	29.11	48	WNW	4	bc		29.13	-.02	43	41	- 7	NNW	4	b	4		53	40	0.68
Pembroke ...	29.10	50	SW	6	r		29.17	-.07	48	46	- 2	S	4	cpq	4		52	47	0.50
Soilly ...	29.25	52	W	6	og		29.15	-.10	49	47	- 2	S	5	c	6		53	45	0.44
Prawle Point ...	29.26	51	S	7	r		29.27	-.01	50	47	+ 1	S	6	cpq	5		53	43	0.20
Jersey ...	29.45	54	SSE	4	ogm		29.40	-.05	50	47	- 3	SW	5	c	4		55	48	0.36
Hurst Castle ...	29.41	52	S	6	o		29.35	-.06	49	48	+ 1	WSW	4	c	3		54	44	0.30
Dungeness ...	29.50	52	W	4	c		29.37	-.07	45	44	+ 2	WSW	4	c	4		54	43	0.30
London ...	29.42	46	SSW	2	b		29.37	-.05	43	42	+ 3	SW	2	b	*		54	40	0.11
Oxford ...	29.32	48	S	5	r		29.35	-.03	40	39	- 1	S	2	b	*		54	40	0.17
Cambridge ...	29.45	44	SW	1	o		29.34	-.11	42	42	+ 2	S	1	b	*		54	38	0.19
Yarmouth ...	29.18	46	SW	3	bc		29.31	-.07	47	46	+ 3	SSW	1	om	4		50	48	0.13
Cuxhaven ...	29.63	41	SSW	1	b		29.68	+ .05	37	37	+ 7	SSE	2	b	*		46	35	-
Berlin ...	29.76	50	Z	0	o		29.75	+ .01	48	47	+ 2	Z	0	r	*		55	?	-
Wiesbaden ...	*	*	*	*	*		29.70	+ .01	35	34	- 10	Z	0	f	*		52	32	-
Munich ...	29.03	39	SW	2	o		29.73	+ .00	34	34	- 8	S	2	f	*		43	34	0.39
<b>ITALY.</b>																			
The Helder ...	29.58	45	S	3	bc		29.49	+ .07	45	43	- 1	SE	4	c	2		50	41	0.04
Brussels ...	*	*	*	*	*		29.48	-.10	45	44	+ 2	S	8	r	*		49	?	0.08
Cape Gris Nez...	29.59	50	SW	3	bc		29.38	-.14	48	46	- 2	WSW	4	r	4		54	45	0.39
Paris ...	29.69	47	SSW	3	bc		29.54	-.14	46	45	- 1	SSW	3	b	*		53	45	-
Brest ...	29.45	50	WSW	7	r		29.38	-.07	52	49	- 2	WSW	8	o	7		55	45	-
Lorient ...	29.44	54	S	8	r		29.46	-.02	50	47	- 2	W	7	b	6		55	46	0.47
Rocheport ...	29.72	54	SW	7	o		?	?	50	48	- 2	W	5	r	2		57	45	0.39
Belfort ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lyons ...	29.84	43	ESE	1	b		29.77	-.07	40	39	- 1	ESE	1	r	*		50	36	0.08
Nice ...	29.67	51	Z	0	b		29.77	+ .10	46	44	- 2	ENE	1	o	4		59	41	-
Perpignan ...	29.89	54	NW	5	b		29.81	-.08	49	48	- 1	W	3	c	*		61	45	0.04
Biarritz ...	29.79	58	SW	4	r		29.77	-.02	57	51	+ 3	SW	4	o	5		61	48	0.12
Corunna ...	*	*	*	*	*		29.81	-.07	55	53	- 2	SW	7	r	6		64	52	0.39
Lisbon ...	30.09	62	WSW	5	bc		29.99	-.10	61	60	+ 4	N	4	o	5		64	?	0.16

For Explanation of Columns, see p. 4.



## 1887.

(Explanation of Map)

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

$\oplus \longrightarrow$  = forces above  $W_0$   $\longleftarrow \longrightarrow$  = forces 8 to  $W_0$ .  
 $\longrightarrow$  = forces 5 to  $7_1$   $\longrightarrow$  = 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 November.  
During the 10 Years 1871—1880.

A hand-drawn weather map of the North Atlantic region, showing isobars, wind directions, and pressure trends. The map includes the following features:

- Isobars:** Hand-drawn lines representing pressure levels, labeled with values such as 29.45, 29.5, 29.6, 29.7, 29.8, and 29.9.
- Pressure Trends:** Arrows indicating the direction of pressure change, labeled with terms like "LOW", "HIGH", "rising", "falling", "rising briskly", and "steadily".
- Wind Directions:** Arrows indicating the direction of wind flow, with some areas labeled "flow".
- Geographical Labels:** The word "Barometer" is written across the map, and "LOW" and "HIGH" are used to denote pressure systems.
- Other Markings:** Various numerical values (e.g., 29.45, 29.5, 29.6, 29.7, 29.8, 29.9) are scattered across the map, likely representing specific pressure readings or trends.

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 November

WARMER HERE

VERY COLDER HERE

CHANGED IRREGULARLY

fallen

WARMER

COLDER

RAIN

MOST PLACES

40°

50°

46

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

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99

100

*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, about 30.0 ins. over the southwestern parts of the Spanish Peninsula.  
Lowest, about 29.85 ins. in the southeast of Sweden — 29.1 ins. in a depression lying over the south east of Ireland.  
Gradients, moderate — for E winds in Scotland, N in Ireland, and W to SW over France, the Channel and Bay of Biscay.  
Barometer, rising fast in the north, falling in the southwest and over France.

## TEMPERATURE

Highest, 61° at Lisbon, 55° at Corunna, 52° at Brest, 50° at Hawle Point, and 47° in the south of Norway and at Wick.  
Lowest, 34° at Munich, 35° at Wiesbaden, 37° at Hamburg, 39° at Paris and 40° at Oxford.  
It is not below 43° at any of our own northern stations, and is 41° even at Rode.

## WIND

Blows a gale from W. over Brittany and from S. over Belgium, and is generally W<sup>1</sup> to S<sup>1</sup> at the southern and eastern stations. A strong SW<sup>1</sup> gale prevailed last night. In Scotland it has become E<sup>1</sup> and in Ireland N<sup>1</sup>, and though moderate in most places blows hard in Sligo Bay and at Belmullet. In Scandinavia S (SE to SW) winds are still mainly prevalent.

## WEATHER

Fine at present over the southern and midland counties of England.  
Cloudy elsewhere, with rain in a great many places.  
Showers have prevailed more or less at almost all stations, during the past 24 hours.

## SEA

Very rough at and about the mouth of the Channel, rather so at Biscay, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west seems to be moving southwards, and the baric rise and E<sup>1</sup> winds in the north are spreading southwards.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> Nov<sup>r</sup>.

1887.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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

NONE ISSUED

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

### WARNINGS

NONE ISSUED

The N. Cone has been hoisted this morning in districts 0-1-6-9 and part of 2

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.26	50	48	SE 2	c	5	Holyhead ...	29.34	50	46	S 3	c	2
Sumburgh Head ...	29.22	47	46	L 0	0	2	Valencia ...	29.10	52	30	W 6	cpq	6
Stornoway ...	29.21	47	46	NW 3	0	3	Scilly ...	29.27	52	52	SSE 7	od	6
Aberdeen ...	29.20	47	45	WNW 3	c	1	Dungeness ...	29.55	53	49	N 4	bc	3
Shields ...	29.30	49	45	WSW 3	c	2	London ...	29.54	52	48	SW 4	c	3
Ardrossan ...	29.24	47	46	NW 2	0	1	Yarmouth ...	29.47	50	47	SW 3	b	3
Malin Head ...	29.24	47	44	SE 2	0	2	Jersey ...	29.59	54	50	SSW 4	0	4
Mullaghmore ...	29.17	47	42	ESE 5	og	3	Rocheport ...	29.84	56	53	SW 4	0	2
Belmullet ...	29.09	45	45	ESE 5	r	*							

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

The reports for yesterday morning showed that pressure was still high (30.5 ins. and more) over Russia, and that it exceeded 30.1 ins. over the southwestern part of the Spanish Peninsula, while it was as low as 29.3 ins. and less, in a depression over the northeast of Scotland, and about 29.5 ins. in another depression over the Gulf of Lyons. The winds were SE<sup>2</sup> over Northern Europe and were accompanied by unsettled weather and passing showers, while over the British Isles and Western France, the weather was very changeable and showery, and the winds were from between W. and S, moderate in many places, but blowing strongly over the Bay of Biscay. In the south of France, <sup>strong</sup> NW winds prevailed, and thunderstorms had been very prevalent. Temperature [which was high for the time of year over the United Kingdom generally] varied from 60° and more over the southern parts of the Mediterranean and from between 50° and 60° on the Atlantic coast generally, to rather below 40° over Northern Europe and Antisl Ireland only. The highest individual values were 65° at Malta, 63° at Rhénée and Algiers, 60° at Palermo, 57° at Rome, Naples, Lisbon and Genoa, 56° at Oporto, 54° at Tripoli, 53° at Jersey and 50° at Valencia; at Funchal (Madira) the temperature was 70°. The lowest values were 36° at Archangel, 38° at Larne, 40° at London, Oxford and Cambridge, 41° at Lyons and 42° at Moscow, Kiev, and Kharkov.

Later in the day a new depression appeared off the west of Ireland, while a small subsidiary disturbance passed rapidly up the Channel, causing strong SW<sup>3</sup> gales for several hours at the southern stations, accompanied by a considerable fall of rain.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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# DAILY WEATHER REPORT.

for Monday 7<sup>th</sup> November

1887.

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

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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.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.65	39	S	2	b	30.04	+ .42	33	32	- .9	N	2	bc	*	43	?	0.08	
Hernösand ...	29.95	39	Z	0	b	30.23	+ .53	35	35	- .9	Z	0	bc	*	46	?	-	
Stockholm ...	30.02	42	Z	0	o	30.10	+ .26	43	42	- .9	NE	2	f	*	52	39	0.04	
Wisby ...	29.96	47	S	2	o	29.99	+ .14	44	43	- .5	E	2	r	*	50	43	0.08	
Bodö ...	29.82	39	W	4	o	30.15	+ .70	37	34	- .5	W	4	o	2	43	34	0.16	
Christiansund...	30.02	43	NE	6	r	30.27	+ .72	39	35	- .6	NE	5	b	4	45	37	0.12	
Skudesnaes ...	29.89	44	Z	0	bc	29.95	+ .32	45	40	- .2	NNE	4	o	3	48	45	-	
Christiania Fjord (Furder)	29.92	46	NNE	3	bc	30.01	+ .29	44	41	- .3	NNE	5	o	1	47	41	-	
Skagen (The Scaw)	29.85	44	SE	8	o	29.88	+ .15	44	44	- .0	SE	4	o	4	46	43	0.43	
Faßö ...	29.69	45	SE	2	r	29.71	+ .03	44	44	+ .5	SE	2	o	*	48	39	0.20	
BRITISH ISLANDS.																		
Sumburgh Head	29.81	47	NE	3	c	30.12	+ .59	43	42	- .4	NE	6	o	4	48	41	-	
Stornoway ...	29.76	46	E	6	c	30.08	+ .61	47	46	+ .1	E	7	o	6	48	43	0.42	
Wick ...	29.73	48	NE	5	o	30.10	+ .58	45	44	- .2	NE	6	o	5	48	43	0.08	
Nairn ...	29.70	45	E	1	r	30.01	+ .57	47	45	+ .4	E	4	ou	4	48	42	0.15	
Aberdeen ...	29.63	48	W	4	o	29.92	+ .50	48	46	+ .3	NE	6	o	6	49	44	0.22	
Leith ...	29.49	46	E	4	r	29.83	+ .52	47	46	+ .1	NE	5	o	*	48	45	0.58	
Shields ...	29.44	49	E	1	b	29.73	+ .52	47	44	- .1	NE	5	o	5	51	45	0.30	
Spurn Head ...	29.46	46	SE	2	b	29.58	+ .30	47	45	+ .2	ENE	5	cp	4	50	42	0.13	
York ...	29.46	46	Z	0	b	29.62	+ .35	46	45	+ .1	E	1	m	*	53	37	0.17	
Loughborough	29.43	44	ENE	1	b	29.58	+ .29	44	41	- .1	NE	3	of	*	56	36	-	
Ardrossan ...	29.50	48	NE	4	opm	29.83	+ .54	46	45	+ .1	ENE	6	pm	3	48	38	0.08	
Malin Head ...	29.49	47	NNE	7	c	29.83	+ .53	49	46	+ .4	NE	6	o	4	49	38	0.24	
Mullaghmore ...	29.45	47	NNE	8	r	29.81	+ .60	48	45	0	NE	7	og	8	43	45	0.17	
Belmullet ...	29.50	50	NE	8	o	29.86	+ .57	48	46	0	ENE	6	o	*	50	46	0.62	
Donaghadee ...	29.41	48	E	4	c	29.75	+ .50	48	47	+ .1	NE	6	o	4	49	44	0.21	
Barrow-in-Furness	29.43	46	NE	2	b	29.68	+ .45	46	45	+ .2	N	3	op	*	50	42	0.12	
Liverpool (Bidston)	29.41	45	ENE	2	b	29.61	+ .36	43	42	+ .1	NE	1	cf	3	50	39	0.06	
Holyhead ...	29.36	47	ENE	1	cp	29.60	+ .39	48	46	+ .4	NE	4	o	3	51	44	0.01	
Parsonstown ...	29.41	44	Z	0	o	29.70	+ .59	45	44	+ .6	N	2	o	*	51	38	0.03	
Valencia ...	29.47	48	NNE	5	og/p	29.72	+ .49	45	44	- .1	NE	4	bcw	4	50	45	0.10	
Roche's Point...	29.36	47	NNE	3	bc	29.62	+ .49	45	43	+ .2	NNE	4	bm	4	48	42	0.10	
Pembroke ...	29.29	47	E	4	bc	29.55	+ .38	43	41	- .5	NE	3	bc	2	49	42	0.50	
Seilly ...	29.13	49	NE	5	op	29.45	+ .30	50	46	+ .1	NE	6	c	6	52	42	0.25	
Prawle Point ...	29.23	51	E	5	c	29.42	+ .15	44	42	- .6	NE	6	bc/p	4	52	41	0.19	
Jersey ...	29.25	50	SE	6	c/g	29.29	- .11	49	47	- .1	NE	5	omr	4	55	47	0.12	
Hurst Castle ...	29.33	49	SE	4	bc	29.40	+ .05	46	45	- .3	NE	5	c	3	54	43	0.06	
Dungeness ...	29.45	50	W	4	c	29.39	+ .02	48	47	+ .3	E	5	c	3	53	43	0.08	
London ...	29.42	46	SE	1	b	29.46	+ .09	44	43	+ .1	ENE	3	cm	*	55	41	-	
Oxford ...	29.44	42	E	2	b	29.52	+ .17	38	38	- .2	NE	2	ow	*	52	37	-	
Cambridge ...	29.46	40	S	1	b	29.52	+ .18	36	35	- .6	N	1	b	*	56	34	-	
Yarmouth ...	29.44	46	SE	2	b	29.52	+ .21	46	45	- .1	E	4	c	4	49	43	0.18	
Cuxhaven ...	29.69	41	ENE	2	b	29.67	- .01	39	38	+ .2	SE	1	b	*	43	37	-	
Berlin ...	29.69	50	Z	0	r	29.73	- .02	48	48	0	SW	1	r	*	50	48	0.32	
Wiesbaden ...	*	*	*	*	*	29.72	+ .02	41	39	+ .6	Z	0	b	*	45	?	0.04	
Munich ...	29.74	35	SE	1	b	29.74	+ .01	31	31	- .3	SE	3	b	*	45	30	-	
FRANCE & NETHERLANDS.																		
The Helder ...	29.56	44	ENE	1	o	29.60	+ .11	42	41	- .3	E	1	b	1	46	?	0.12	
Brussels ...	*	*	*	*	*	29.50	+ .02	44	43	- .1	ENE	1	b	*	51	40	0.04	
Cape Gris Nez...	29.43	46	S	1	bc	29.41	+ .03	42	42	- .6	E	5	o	4	52	39	0.12	
Paris ...	29.49	47	S	3	bc	29.36	- .18	49	47	+ .3	S	4	o	*	54	46	0.24	
Brest ...	29.16	50	SW	4	o	29.34	- .04	44	41	- .8	NNE	4	b	6	55	39	0.24	
Lorient ...	29.20	50	SW	5	c	29.31	- .15	47	46	- .3	N	4	o	5	52	45	0.28	
Rochefort ...	29.42	53	SW	8	r	29.35	?	51	49	+ .1	WSW	7	m	3	55	46	0.55	
Belfort ...	29.67	43	W	1	bc	29.66	-	43	41	-	SE	3	o	*	48	33	0.04	
Lyons ...	29.63	50	E	5	c	?	?	43	43	+ .3	?	3	c	*	53	?	-	
Nice ...	29.75	55	E	3	o	29.70	- .07	48	46	+ .2	ENE	4	c	3	57	45	1.02	
Perpignan ...	29.70	54	NE	3	bc	29.64	- .17	47	46	- .2	NE	3	bc	*	63	45	-	
Biarritz ...	29.51	57	NW	4	c	29.55	- .22	55	49	- .2	WSW	8	o	8	63	52	0.08	
Corunna ...	*	*	*	*	*	29.75	- .06	55	49	0	WSW	8	r	6	59	37	0.20	
Lisbon ...	29.97	58	W	4	b	29.93	- .06	55	53	- .6	WSW	4	c	4	63	54	-	

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



# WEATHER CHARTS

for 8 a.m. on Monday, 7<sup>th</sup> November. 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.

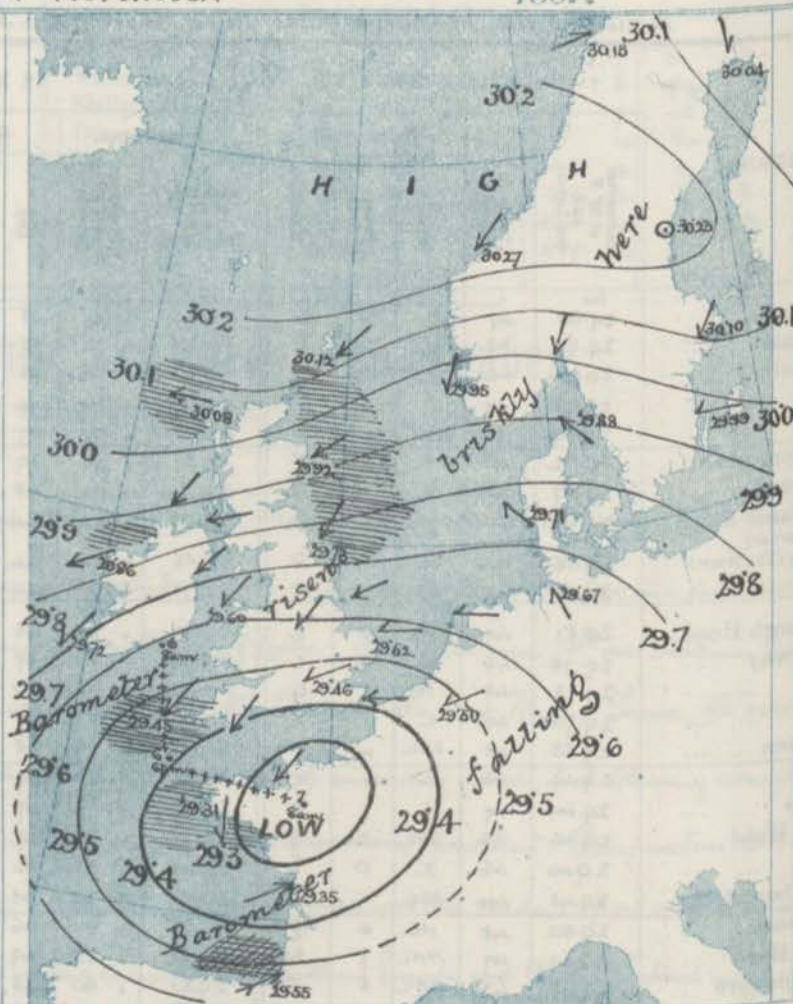
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

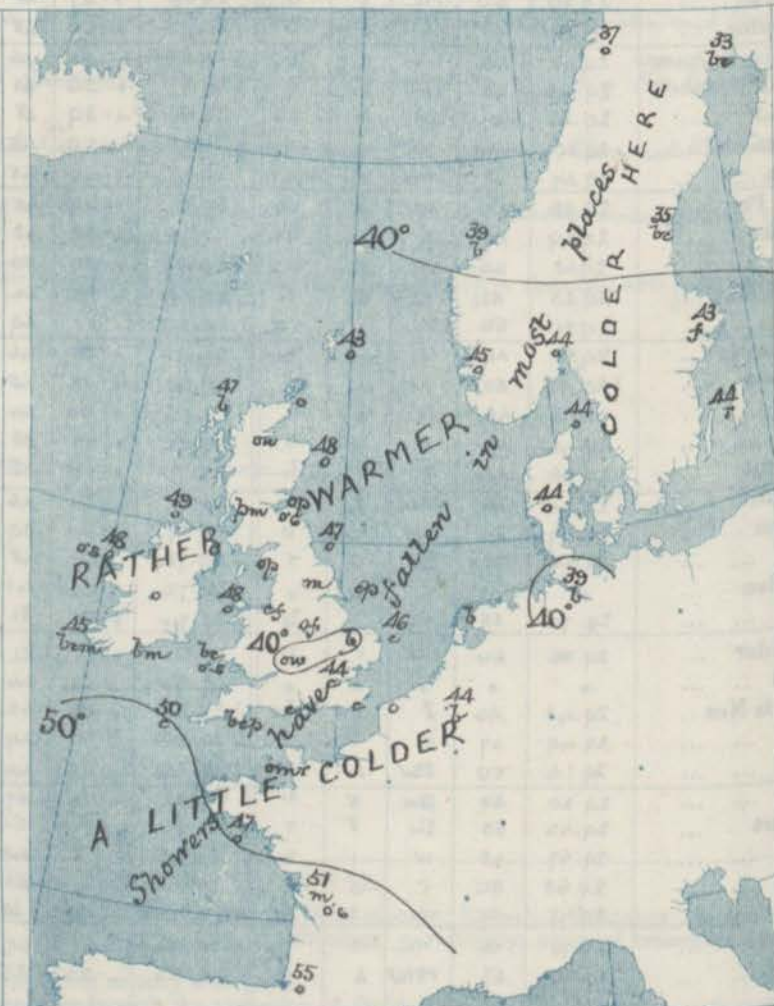
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.78
Hurst Castle	50.0	39.5	44.1	43.1	2.99
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 in. and upwards, to the northward of our Islands and also over the north of Scandinavia.  
Lowest, 29.3 in. and less, in a depression having its centre near Le Mans.  
Gradients rather steep over our Islands. Barometer rising briskly west and north, but inclined to fall south-east.

## TEMPERATURE

Highest, 55° at Biarritz and Dieppe, 51° at Rochefort, 50° at Seilly, and 49° at Malin Head and Jersey.  
Lowest, 33° at Haparanda, 35° at Huesoand, 36° at Cambridge, 37° at Reims, 38° at Oxford, and 39° at Christiansund and Copenhagen.

## WIND

NE<sup>2</sup> over our Islands and the south of Scandinavia; strong in force on our north and north-west coasts.  
Light SE<sup>2</sup> in Denmark and North Germany.  
Strong to a gale from WSW. in the south-west of France.

## WEATHER

Fine in the south and south-east of England as well as in the Netherlands and north of Scandinavia.  
Cloudy or overcast elsewhere, with rain at several of our northern stations.  
Rain fell yesterday in most places, the largest amounts being 0.6 in. at Leth, and 0.5 in. at Belmullet and Pembroke.

## SEA

Rough on our north and north-east coasts, as well as at the mouth of the Channel and in the Bay of Biscay, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer has now begun to fall a little in the south-east of England, and the depression over France is inclined to change its course and move north-eastwards to the Netherlands. The wind is therefore likely to increase from the north-eastward on our coasts, with cold rain in many places.

## FORECASTS

for the 24 hours ending at NOON on 8<sup>th</sup> Nov<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NE <sup>2</sup> winds, strong, a gale in places; cloudy, squally, some showers.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	-----D°-----D°-----D°-----
3	ENGLAND EAST	E <sup>2</sup> to NE <sup>2</sup> winds, increasing in force; fair to cloudy and some rain.
4	MIDLAND COUNTIES	Same as N° 5
5	ENGLAND SOUTH	NE <sup>2</sup> to N <sup>2</sup> winds, freshening considerably; cloudy generally with some rain.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NE <sup>2</sup> winds, strong; cloudy, some showers.
7	ENGLAND N.W.	Same as N° 5
8	ENGLAND S.W.	NE <sup>2</sup> and N <sup>2</sup> winds fresh or strong; fair generally, but local showers.
9	IRELAND NORTH	Same as N° 0
10	IRELAND SOUTH	N <sup>2</sup> winds, moderate; fair generally.

### WARNINGS

The north cone was hoisted yesterday morning in districts 01-69 and part of 70.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.71	48	46	CSE 3	0	4	Holyhead ...	29.30	49	46	NNE 1	0	2
Sumburgh Head							Valencia ...						
Stornoway ...	29.64	48	48	E 6	7	5	Scilly ...						
Aberdeen ...							Dungeness ...	29.41	52	49	SW 4	0	3
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.39	45	45	NNE 6	0	6	Jersey ...	29.30	54	50	SEA 5	60	4
Mullaghmore ...							Rochefort ...	29.58	52	50	SW 7	7	3
Belmullet ...	29.46	47	46	NNE 7	0	*							

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

Yesterday morning's reports showed an important change to be in progress in the distribution of pressure over Europe. Reading remained high (30.5) in and more over Russia and rather above 30 in over Algeria and the southern half of the Iberian Peninsula while they were lowest over Ireland. The small depression which travelled up the Channel on Saturday evening had reached the Netherlands but the larger system which lay off the West of Ireland on Saturday had suddenly begun to move southwards, a decided rise of the barometer had set in over the northern parts of the British Isles. E. winds and showers had set in over Scotland while NE. gales were reported in Sligo Bay and Narvik over Ireland generally. In the Channel, the Netherlands and over the North Sea the wind was yet S. and although a marked improvement in the weather had occurred over southern and central England in other places it remained changeable and showery. Temperature had given way again (locally) over western Germany (apparently owing to nocturnal radiation under a clear sky) but had not changed much elsewhere, and ranged from 60 and more over Portugal and the southern parts of the Mediterranean to rather below the freezing point over western Germany; at stations over northern Europe it varied but little on either side of 40°. The highest individual values reported were 62° at Lisbon and Palma, 61° at Brindisi, 60° at Malta and Algiers, 59° at Oporto and San Fernando, 52° at Brest, 50° at Braille and 47° at Dink; at Funchal (Madeira) the temperature was 68°. The lowest values were 31° at Cassel, Karlsruhe and Berne, 34° at Munich, 35° at Strasbourg, 36° at Hamburg, 37° at Leuchaven, 39° at Leno and 40° at Oxford.

Later in the day the barometric rise in the North became still more general and the E. winds spread southwards, but without any important change of temperature.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 30<sup>TH</sup> OF OCTOBER TO THE 5<sup>TH</sup> OF NOVEMBER

The weather of the past week has been very stormy and unsettled with heavy rain in most districts.

During the greater portion of the time barometrical pressure has been relatively high both over Spain and northern Russia; in addition to numerous secondary disturbances, four important depressions have appeared in the neighbourhood of our Islands.

The first of these passed quickly in an east-northeasterly direction across the South of England in the night of the 29<sup>th</sup> of October, at 8 a.m. on the 30<sup>th</sup> its centre lay over Harwich and moderate W and NW gales were blowing in the Channel and North of France, but in the course of the ensuing 24 hours it travelled northwards to the South of Sweden and the gales consequently subsided.

The second, a larger disturbance, appeared off the West of Ireland in the evening of the 31<sup>st</sup> and occasioned strong S gales on our West coasts. During the ensuing night a deep secondary disturbance was developed over the St. George's Channel (its formation being attended by very heavy rain in Ireland) and in the N. of Nov. heavy SE and S gales blew in the West and South of England. Both depressions subsequently moved in a northwest direction to the westward of Scotland, and the gales therefore lulled, while the weather improved decidedly.

The third, also a large and deep disturbance, advanced rapidly in a northeast direction on the night of the 2<sup>nd</sup> of November and occasioned fresh to strong S gales on nearly all coasts. At 8 a.m. on the 3<sup>rd</sup> its centre (in which readings were below 28.3 in) lay off the West of Scotland, but a well defined secondary disturbance was afterwards developed over the St. George's Channel and a fresh S gale again sprang up in the South of England. Towards night both disturbances moved northwards and partially dissipated.

The fourth, a complex depression with several subsidiary centres appeared off the West of Ireland on the evening of the 5<sup>th</sup> and also caused fresh S or S.W. gales at many of our West and South stations. By the close of the period this disturbance was inclined to move south-eastwards and the barometer was rising steadily in the North.

Temperature has been about the average for the period and no extremes either of heat or cold have been registered.

## 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 8<sup>th</sup> November

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 ..	30.01	28	Z	0	bc	30.17	+ .13	25	23	- 8	NW	2	b	*	39	?	In.	
Hernösand ...	30.31	28	Z	0	b	30.34	+ .11	27	26	- 8	Z	0	b	*	41	27	-	
Stockholm ...	30.23	42	NE	2	0.	30.32	+ .22	31	29	- 12	N	2	0	*	46	?	0.04	
Wishy ...	30.05	42	ESE	4	r	30.15	+ .16	42	41	- 2	ENE	4	0	*	46	41	0.08	
Bodö ...	30.16	39	SW	6	0	30.22	+ .07	39	35	+ 2	WSW	4	bc	2	39	32	-	
Christiansund...	30.37	36	NE	8	b	30.41	+ .14	38	32	- 6	ESE	1	b	3	39	32	-	
Skudennes ...	30.13	48	Z	0	0	30.28	+ .33	43	38	- 2	ENE	2	bc	3	48	?	-	
Christiania Fjord (Fæder)	30.19	44	NNE	5	0	30.34	+ .33	36	35	- 8	NNE	5	b	1	45	36	-	
Skagen (The Sow)	30.14	48	E	5	0	30.23	+ .35	41	37	- 3	ENE	4	0	3	45	41	0.24	
Fanö ...	29.94	45	ENE	4	0	30.05	+ .34	44	42	0	ENE	4	c	*	48	43	0.12	
BRITISH ISLANDS.																		
Smaburgh Head	30.19	43	NE	6	c	30.32	+ .20	44	41	+ 1	NE	4	c	6	45	42	-	
Stornoway ...	30.17	46	E	8	0	30.25	+ .17	47	46	0	E	7	0	6	47	42	0.04	
Wick ...	30.16	46	NE	7	0	30.26	+ .16	46	45	+ 1	NE	5	0	4	46	43	-	
Nairn ...	30.08	47	E	6	r	30.21	+ .20	46	45	- 1	E	3	0	3	48	43	0.19	
Aberdeen...	29.97	47	NE	6	r	30.18	+ .26	46	45	- 2	ENE	6	q/p	7	48	45	0.60	
Leith ...	29.87	46	NE	5	r	30.10	+ .27	47	47	0	E	4	od	*	48	44	0.79	
Shields ...	29.75	47	NE	5	0	30.01	+ .28	48	46	+ 1	NE	4	0	5	49	44	0.13	
Spurn Head ...	29.65	48	ESE	6	0	29.90	+ .32	49	47	+ 2	ENE	6	bc	5	49	44	0.06	
York ...	29.70	46	NE	2	b	29.87	+ .25	49	46	+ 3	ENE	3	0	*	50	44	0.08	
Loughborough	29.60	46	NNE	4	r	29.85	+ .24	47	46	+ 6	ENE	4	0	*	48	40	0.07	
GERMANY.																		
Ardrossan ...	29.86	47	NE	6	opm	30.07	+ .24	47	47	+ 1	NE	5	bc	3	48	45	0.01	
Malin Head ...	29.91	48	NNE	5	bc	30.04	+ .21	49	48	0	ESE	5	o/p	4	50	44	0.05	
Mullaghmore ...	29.89	48	NE	8	omg	30.01	+ .20	48	46	0	ENE	5	cm	4	50	47	-	
Belmullet ...	29.94	49	ESE	8	c	30.01	+ .15	48	45	0	E	3	c	*	51	46	0.04	
Donaghadee ...	29.86	48	NE	8	bc	30.01	+ .26	50	48	+ 2	ESE	8	c	6	50	47	0.04	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.69	46	NNE	2	b	29.89	+ .21	49	46	+ 3	NNE	5	c	*	49	45	0.04	
Liverpool (Blacton)	29.66	45	NE	2	bc	29.87	+ .27	49	46	+ 6	ESE	6	0	4	49	43	0.01	
Holyhead ...	29.68	48	NE	5	cp	29.87	+ .27	49	48	+ 1	ESE	6	cm	5	50	47	0.13	
Parsonstown ...	29.79	45	N	3	0	29.82	+ .18	49	46	+ 4	NE	3	0	*	49	44	0.04	
Valencia ...	29.81	49	NNE	6	og	29.84	+ .12	49	46	+ 4	NE	4	og	4	49	45	0.03	
SPAIN.																		
Roche's Point...	29.69	48	NNE	4	c	29.74	+ .12	49	47	+ 4	NE	4	cp	4	49	39	0.06	
Pembroke ...	29.58	47	NE	3	bc	29.66	+ .11	50	47	+ 7	ENE	5	bc	8	50	43	0.05	
Seilly ...	29.53	50	NNE	6	c	29.53	+ .08	50	48	0	ESE	5	0	4	51	46	0.40	
Prawle Point ...	29.47	45	W	3	bc	29.55	+ .13	50	49	+ 6	E	6	og	5	51	41	0.25	
Jersey ...	29.36	49	NE	3	otm	29.60	+ .81	48	46	- 1	SE	4	bc	4	50	42	0.15	
PORTUGAL.																		
Hurst Castle ...	29.41	47	NE	5	otm	29.68	+ .28	49	49	+ 3	E	5	cp	8	50	44	0.37	
Dungeness ...	29.43	52	ESE	5	0	29.72	+ .33	49	47	+ 1	SE	4	bc	3	52	47	0.14	
London ...	29.50	49	ESE	3	0	29.77	+ .31	48	47	+ 4	E	3	0	*	50	44	0.39	
Oxford ...	29.54	46	NE	4	0	29.77	+ .25	47	45	+ 9	ENE	3	0	*	48	38	0.20	
Cambridge ...	29.53	47	N	2	r	29.83	+ .31	48	46	+ 12	ENE	2	0	*	49	34	0.08	
Yarmouth ...	29.59	48	E	6	c	29.83	+ .31	47	46	+ 1	E	7	c	5	48	45	0.02	
NETHERLANDS.																		
Cuxhaven ...	29.79	41	E	1	f	29.94	+ .27	44	43	+ 5	E	4	c	*	44	?	-	
Berlin ...	29.84	49	Z	0	0	29.93	+ .20	44	43	- 4	ENE	2	0	*	50	?	0.04	
Wiesbaden ...	*	*	*	*	*	29.76	+ .04	42	41	+ 1	NE	1	0	*	48	36	-	
Manich ...	29.67	37	SE	2	bc	29.74	+ .00	37	37	+ 6	NW	3	r	*	46	30	0.04	
FINLAND.																		
The Helder ...	29.74	46	E	3	b	29.90	+ .30	42	42	0	E	4	b	8	48	41	-	
Brussels ...	*	*	*	*	*	29.78	+ .28	42	41	- 2	E	1	c	*	54	41	0.04	
Cape Gris Nez...	29.45	48	E	4	c	29.71	+ .30	41	40	- 1	ESE	3	b	1	52	41	0.04	
Paris ...	29.46	49	SE	4	r	29.71	+ .35	45	43	- 4	SE	3	0	*	54	44	0.04	
Brest ...	29.46	46	SSE	4	0	29.55	+ .21	49	46	+ 5	NW	5	0	5	55	43	-	
Lorient ...	29.46	49	NW	3	c	29.58	+ .27	50	45	+ 3	WNW	4	bc	4	51	45	-	
Rockfort ...	29.52	51	W	5	0	29.67	+ .32	48	48	- 3	SE	4	0	2	55	45	0.75	
Belfort ...	29.67	42	SE	1	0	29.78	+ .12	40	39	- 3	SW	1	f	*	49	35	-	
Lyon ...	29.63	47	S	3	0	29.77	?	39	39	- 4	S	1	b	*	53	38	-	
Nice ...	29.68	50	SSE	3	0	29.75	+ .05	44	42	- 4	E	4	b	2	55	41	0.59	
PORTUGAL.																		
Perpignan ...	29.71	46	SW	3	L	29.76	+ .11	40	40	- 7	W	3	b	*	60	36	0.32	
Biarritz ...	29.67	55	W	9	0	29.72	+ .17	52	46	- 3	SW	4	r	5	63	48	-	
NETHERLANDS.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.97	56	WNW	4	0	29.98	+ .05	55	53	0	Z	0	c	4	63	54	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 8<sup>th</sup> November.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

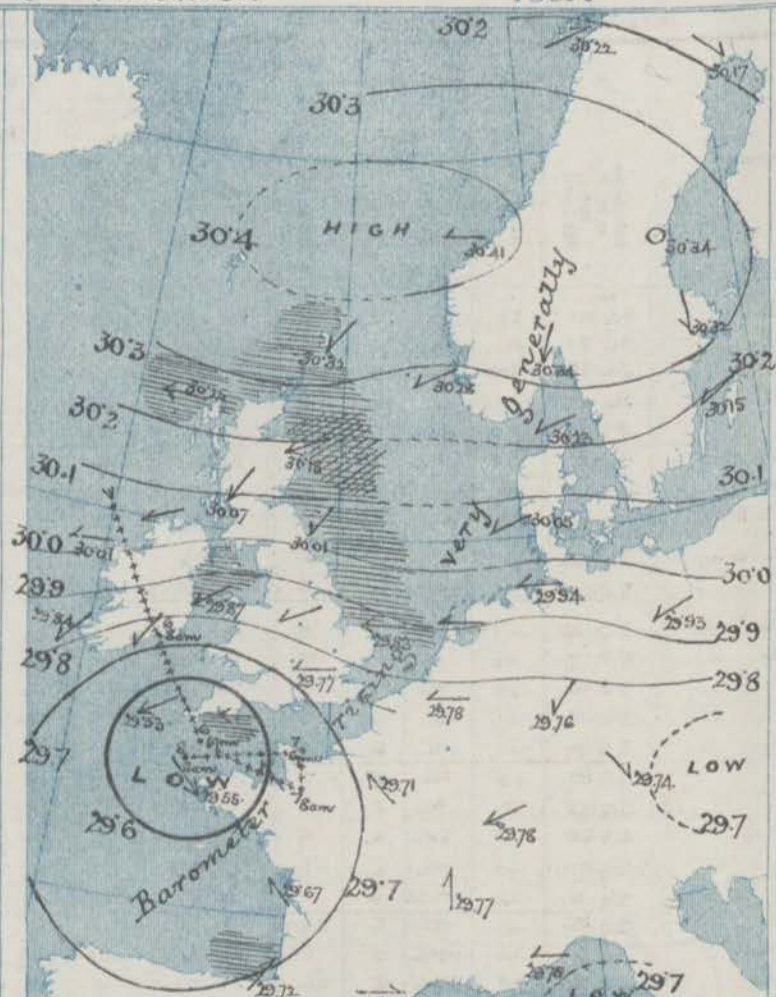
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; — forces 6 to 10;  
 — forces 5 to 7; — forces 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 November.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

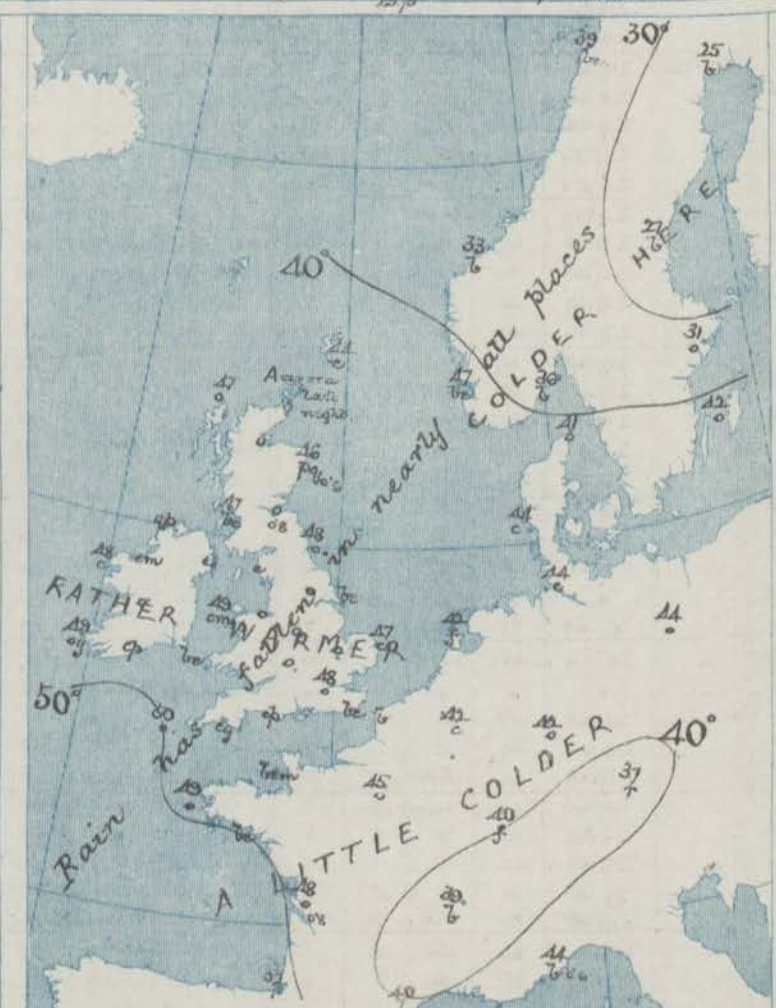
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.8	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.58
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.78
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 to 30.4 ins., in an anticyclone lying over Scandinavia and off our extreme northern coast. About 30.0 ins., over the south-western part of the Spanish Peninsula. Lowest, 29.6 ins., and less, in a depression, the centre of which lies at the mouth of the Channel. Gradients rather steep in the west and north-west; moderate elsewhere. Barometer rising steadily.
TEMPERATURE	Highest, 55° at Lisbon, 52° at Biarritz, 50° at Seilly and Havre Point, 48° at Valencia, Malin Head and Spinn Head. Lowest, 28° at Haparanda, 27° at Helsingfors, 31° at Stockholm, 33° at Christiansund, 37° at Munkel, 39° at Lyons, and 43° at Belfast. It is very high over the British Isles for an E. wind at this time of year. Over Scandinavia and Central France it is going away.
WIND	E. to NE. over the whole of the British Isles and North Sea. It still blows hard in the north-west, and strongly in several other places, but is moderate on the eastern shore of the North Sea and over the south-east of England. At France the wind is moderate and very variable.
WEATHER	Clearing in Scandinavia, Denmark, and at several of the south-eastern and south-western stations, but is dull elsewhere with showers locally. Its tendency generally is to improve. Rain fell generally yesterday—heavily in many places. Aurora was seen at North.
SEA	Going down slowly, but still rough in the east, north-west, and over the Bay of Biscay—moderate in the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over France yesterday has recovered and is now passing out to sea again in a westerly direction. As this has occurred the barometer has continued to rise generally, and the weather has begun to improve. This improvement is likely to continue during today, but the distribution of pressure is not at all of a settled type.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> November 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	E <sup>2</sup> winds, moderate; fair.	6 { SCOTLAND WEST	NE <sup>2</sup> and E <sup>2</sup> winds, galling; showery.
1 { SCOTLAND EAST	-----D°-----D°-----D°-----	7 { ENGLAND N. W.	-----D°-----D°-----D°-----
2 { ENGLAND N. E.	E <sup>2</sup> winds, decreasing in force, with improving weather.	8 { ENGLAND S. W.	Same as No 5
3 { ENGLAND EAST	-----D°-----D°-----D°-----	9 { IRELAND NORTH	Same as No 6.
4 { MIDLAND COUNTIES	-----D°-----D°-----D°-----	10 { IRELAND SOUTH	Same as No 6.
5 { ENGLAND SOUTH	E <sup>2</sup> and SE <sup>2</sup> winds, moderate to light; finer weather.	WARNINGS	The north cone was lowered last evening except in districts 6, 7, and 9.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.02	48	44	E. 12	4	3	Holyhead ...	29.67	47	46	N.E. 6	7 M	5
Sumburgh Head ...	30.16	43	40	N.E. 6	C	6	Valencia ...	29.76	48	46	N.E. 5	0	5
Stornoway ...	30.44	45	44	E. 7	0	6	Scilly ...	29.51	51	47	N.E. 6	C	6
Aberdeen ...	29.95	48	45	N.E. 8	0 q	7	Dungeness ...	29.39	50	49	E. S. 5	0	4
Shields ...	29.70	46	45	N.E. 6	7	6	London ...	29.44	48	47	E. 6	0 M	5
Ardrossan ...	29.86	48	46	N.E. 7	0	3	Yarmouth ...	29.54	48	46	E. 6	0 p	5
Malin Head ...	29.90	49	47	N.E. 4	0	4	Jersey ...	29.33	50	48	N.E. 5	0	4
Mullaghmore ...	29.88	50	46	N.E. 8	cm	6	Rochefort ...	29.43	52	50	W. 7	0	3
Belmullet ...	29.93	50	46	E. 7	cm	6							

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

The reports for yesterday morning showed that while the highest pressures of all (30.3 ins. and upwards) were lying over Central Russia an area of high readings 30.2 ins. and upwards existed to the northward of the British Islands. The lowest pressures 29.3 ins. and less were found in a small depression having its centre over the northwest of France to which position it had advanced in a south-easterly direction. Very strong breezes from the NE<sup>ast</sup> prevailed over the northern parts of our Islands, and moderate breezes from the same quarter in the south. In the south of France, however, strong winds or gales from the SW<sup>2</sup> were reported, while in Italy and Algeria light breezes from SW. or S. were general. The weather was fine in the south and south-east of England as well as over the greater part of Spain and Algeria, but cloudy elsewhere, with rain in many places. Temperature had risen a little in the north of our Islands, but fallen in nearly all other localities; readings ranged from 60° and upwards over Algeria and Southern Italy, to 40° or less, over the greater part of Russia as well as the north of Scandinavia. The highest individual values were 65° at Palermo, 64° at Oran and Algiers, 61° at Nemours, Palma, and Malta, and 60° at La Calle and Cagliari; the lowest were 33° at Haparanda and Carrel, 35° at Huesca, 36° at Cambridge and Groningen, 37° at Bonn and Munster, and 38° at Oxford, Carlsruhe, Archangel, and Uleaborg.

In the course of the day the depression over France moved slowly northwards, and rain set in over the east and south-east of England, while the NE<sup>1</sup> wind on our northern coasts increased to gales. In France the weather improved somewhat but the weather remained dull.

### 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 9<sup>th</sup> Nov<sup>r</sup> 1887.  
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

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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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		WIND.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force (0 to 12.)				Dry.	Wet.					Max.	Min.		
SCANDINAVIA.																	
Haparanda ..	29.99	27	SW	2	b	29.69	-.48	30	28	W	2	c	*	30	28	—	
Hernösand ...	30.26	31	NW	2	b	30.06	-.28	32	31	SSW	2	b	*	41	27	—	
Stockholm ...	30.37	37	Z	0	c	30.24	-.08	32	30	SW	2	c	*	45	28	—	
Wisby ...	30.31	41	E	2	o	30.25	+.10	39	37	E	2	c	*	45	37	—	
Bodö ...	30.05	42	WSW	8	r	29.91	-.31	42	41	WSW	7	o	4	43	37	0.12	
Christiansund...	30.37	40	SW	4	o	30.28	-.13	41	39	SW	4	o	4	41	39	—	
Skudesnaes ...	30.34	41	E	2	b	30.27	-.01	36	33	Z	0	b	2	41	37	—	
Christiania Fjord (Farder)	30.24	40	NNE	2	b	30.25	-.09	35	35	Z	0	b	1	41	34	—	
Skagen (The Scaw)	30.32	36	E	2	b	30.26	+.03	36	34	Z	0	c	0	43	37	—	
Faßø ...	30.16	44	ENE	6	o	30.15	+.10	41	40	ENE	5	c	*	45	41	—	
BRITISH ISLANDS.																	
Sumburgh Head	30.39	44	NE	3	o	30.37	+.05	40	38	Z	0	o	3	46	39	—	
Stornoway ...	30.30	46	E	5	c	30.30	+.05	44	43	E	3	b	3	48	40	—	
Wick ...	30.34	46	NE	4	c	30.36	+.10	45	44	NE	2	o	2	47	42	—	
Nairn ...	30.29	47	ESE	2	c	30.31	+.10	41	40	E	1	c	1	48	35	0.18	
Aberdeen...	30.26	47	ENE	6	o	30.27	+.09	46	43	NE	5	c	5	48	43	0.01	
Leith ...	30.19	46	E	3	o	30.23	+.13	45	45	NE	3	o	*	47	44	0.07	
Shields ...	30.11	47	NE	4	r	30.16	+.15	47	45	NE	4	o	5	48	45	0.10	
Spurn Head ...	29.97	47	ENE	5	r	30.03	+.13	48	47	ENE	5	odpm	5	50	46	0.10	
York ...	30.03	47	E	1	r	30.10	+.23	47	46	NE	1	m	*	50	46	0.05	
Loughborough	29.97	47	ENE	2	o	30.04	+.19	46	46	NE	2	ogd	*	52	46	0.09	
Ardrossan ...	30.16	47	ENE	4	om	30.22	+.15	45	44	NE	4	om	2	50	45	—	
Malin Head ...	30.12	48	ENE	4	o	30.16	+.12	47	47	ENE	4	og	3	50	45	—	
Mullaghmore ...	30.08	49	ENE	5	c	30.13	+.12	48	45	E	5	o	3	52	45	—	
Belmullet ...	30.08	48	ENE	4	b	30.13	+.12	46	44	E	4	o	*	51	44	—	
Donaghadee ...	30.10	50	E	7	c	30.15	+.14	48	47	E	7	c	1	52	47	0.01	
GERMANY.																	
Barrow-in-Furness	30.02	47	NE	2	c	30.08	+.19	48	46	NE	3	b	*	52	47	—	
Liverpool (Bidston)	29.98	48	ENE	3	b	30.07	+.19	47	45	ENE	3	af	3	51	46	—	
Holyhead ...	29.97	49	ENE	5	c	30.07	+.20	48	47	ENE	4	c	4	51	47	—	
Parsonstown ...	30.01	48	NNE	2	c	30.08	+.20	48	46	ENE	3	o	*	52	46	—	
Valencia ...	29.91	52	NE	6	og	30.03	+.19	49	45	NNE	1	cm	1	53	46	—	
Roche's Point...	29.85	50	ENE	4	cm	29.99	+.25	46	45	ENE	3	c	4	52	46	—	
Pembroke ...	29.86	50	E	4	o	29.99	+.38	47	45	ENE	2	cg	1	51	43	—	
Scilly ...	29.67	51	E	6	op	29.91	+.38	50	48	ENE	4	o	4	53	47	0.31	
Prawle Point ...	29.81	50	E	3	b	29.94	+.39	48	47	E	4	o	4	52	45	0.20	
Jersey ...	29.80	46	Z	0	b	29.92	+.32	48	47	NE	1	bwm	1	52	44	—	
FRANCE & NETHERLANDS.																	
Hurst Castle ...	29.83	48	E	5	b	29.94	+.26	46	46	NNE	2	mā	2	51	43	0.02	
Dungeness ...	29.78	48	E	4	o	29.88	+.16	47	46	NNW	1	r	1	53	46	0.06	
London ...	29.86	47	ENE	2	o	29.92	+.15	47	46	E	1	fgā	*	50	46	0.08	
Oxford ...	29.93	47	NE	3	o	29.98	+.21	46	45	NE	3	r	*	52	46	0.11	
Cambridge ...	29.92	47	E	2	r	29.98	+.15	47	46	N	1	r	*	49	45	0.17	
Yarmouth ...	29.90	47	E	8	og	29.94	+.11	47	46	ENE	6	ogr	5	48	45	0.06	
Cuxhaven ...	30.01	43	E	5	o	30.03	+.09	43	42	E	5	o	*	44	42	—	
Berlin ...	29.97	49	ESE	5	o	30.02	+.09	44	43	E	4	o	*	50	44	—	
Wiesbaden ...	*	*	*	*	*	29.90	+.14	44	43	Z	0	o	*	48	43	—	
Munich ...	29.85	37	SE	3	m	29.97	+.23	35	35	S	2	c	*	41	34	—	
PENIN. ISLANDS.																	
The Helder ...	29.96	46	ENE	3	c	29.95	+.05	45	44	ENE	4	o	3	48	43	0.04	
Brussels ...	*	*	*	*	*	29.88	+.10	45	45	ENE	1	r	*	45	43	0.04	
Cape Gris Nez...	29.81	44	E	5	m	29.86	+.15	46	46	ESE	3	m	1	52	41	—	
Paris ...	29.83	49	SSE	1	r	29.91	+.20	41	41	Z	0	f	*	55	41	0.04	
Brest ...	29.73	50	ENE	3	o	29.98	+.12	48	42	E	4	o	5	55	41	—	
Lorient ...	29.76	48	S	3	b	29.93	+.35	42	41	E	3	b	2	54	39	—	
Rochefort ...	29.82	51	NW	1	c	29.93	+.26	43	43	S	1	m	2	55	39	—	
Belfort ...	29.82	43	SE	3	b	29.95	+.18	40	39	E	1	f	*	51	33	—	
Lyons ...	29.85	46	NW	3	b	29.99	+.22	36	36	S	1	b	*	54	34	—	
Nice ...	29.89	44	ENE	1	b	29.94	+.19	45	43	E	3	b	3	55	41	0.12	
Perpignan ...	29.89	45	NE	3	b	29.97	+.22	37	37	NW	3	b	*	57	37	0.12	
Biarritz ...	29.85	54	WSW	4	c	29.93	+.21	48	46	SW	4	r	2	59	39	0.24	
SPAIN.																	
Corunna ...	*	*	*	*	*	30.01	+.21	50	49	SW	3	r	4	57	46	0.51	
Lisbon ...	30.02	57	SW	3	b	30.03	+.05	53	51	N	1	b	2	61	50	—	

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



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 9<sup>TH</sup> NOVEMBER, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

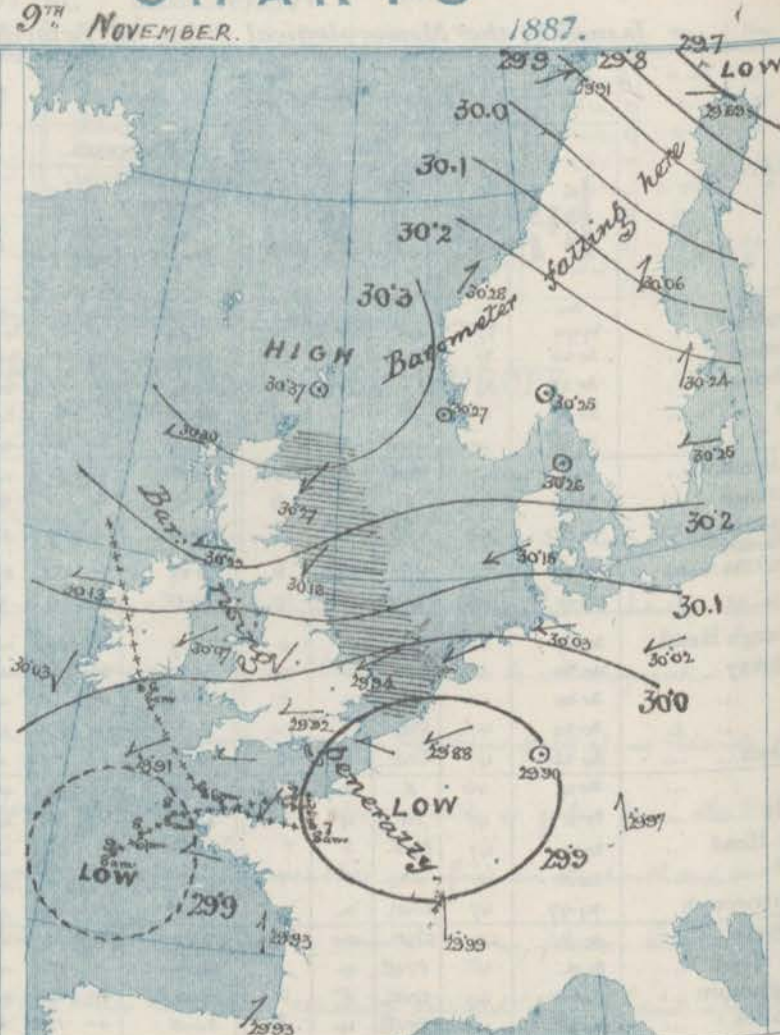
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**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 → = forces above 10; → = forces 8 to 10;  
 → = forces 5 to 7; → = forces 1 to 4;  
 ○ = dead calm.

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

## MEAN HEIGHT of the BAROMETER

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

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Sumburgh Head	29.724
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Pembroke	29.867
Silly	29.899
Hurst Castle	29.885
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LONDON	29.885
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Yarmouth	29.855



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

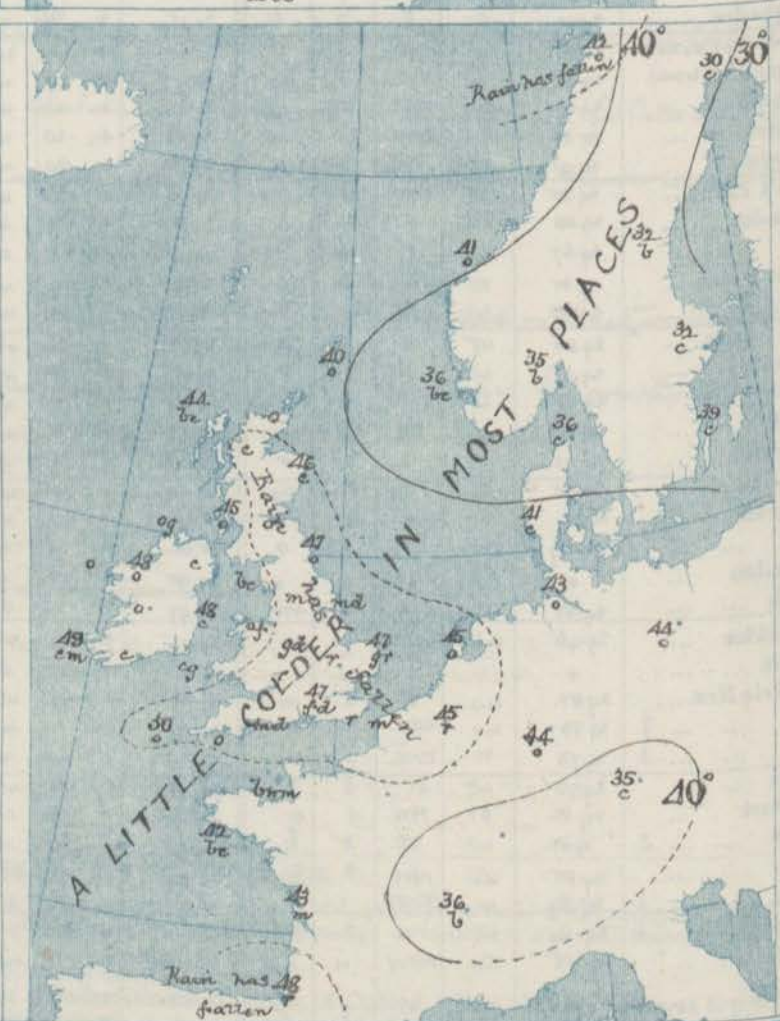
**Temperature**—Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather**—is shown by Letters of the Beaufort Scale.  
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	45.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.58
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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	<i>Highest, 30.3 in. and upwards, in an anticyclone lying off the north of Scotland and west of Norway. Lowest, 29.7 in. and less, in the north of Sweden; 29.9 in. and less, in shallow depressions lying respectively over the northwest of France and the northern part of the Bay of Biscay. Gradients moderate and decreasing - Barometer falling briskly Scandinavia and slightly north Scotland, but rising elsewhere.</i>
TEMPERATURE	<i>Highest, 53° at Lisbon, 50° at Scilly and 49° at Valencia and Yarmouth. Lowest, 30° at Haparanda, 32° at Helsingfors and Stockholm, 35° at Luleå and Umeå and 36° at Skudene, Haparanda, Haparanda.</i>
WIND	<i>E<sup>ly</sup> and NE<sup>ly</sup> over our islands, the North Sea and the north of France; strong on our eastern and north-eastern coast. Moderate to strong from S.W. over Sweden and the north of Norway. Light from the S.W. over the southern parts of France and Germany.</i>
WEATHER	<i>Fair over Sweden, Denmark and France as well as at several of our western stations. All elsewhere, with rain and fog over the greater part of England. [Rain fell yesterday at all but our western and extreme northern stations.]</i>
SEA	<i>Rather rough on the eastern coast of Great Britain, but moderate to smooth elsewhere.</i>



## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A change in the relative distribution of pressure has apparently commenced. The shallow depression to the southwestward and southward of our islands are filling up, while disturbances are beginning to appear over Scandinavia. These movements seem likely to continue and the E<sup>ly</sup> winds now prevailing over our islands will probably die down gradually. In the extreme north the wind is likely to shift to the W<sup>nd</sup>.

## FORECASTS

for the 24 hours ending at NOON on 10<sup>th</sup> November 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	<i>Light breezes, shifting to the W<sup>nd</sup>; fair generally.</i>	6 SCOTLAND WEST	<i>E<sup>ly</sup> winds, light; fair generally.</i>
1 SCOTLAND EAST	<i>E<sup>ly</sup> winds, falling light; fair generally, but local rains at first.</i>	7 ENGLAND N.W.	<i>E<sup>ly</sup> winds, light or moderate; fair generally.</i>
2 ENGLAND N.E.	<i>-----D-----D-----D-----</i>	8 ENGLAND S.W.	<i>-----D-----D-----D-----</i>
3 ENGLAND EAST	<i>E<sup>ly</sup> and NE<sup>ly</sup> winds, strong to moderate; dull and rainy to fair.</i>	9 IRELAND NORTH	<i>Same as N<sup>os</sup> 1 and 3.</i>
4 MIDLAND COUNTIES	<i>Same as N<sup>o</sup> 5.</i>	10 IRELAND SOUTH	<i>Same as N<sup>os</sup> 6 and 7.</i>
5 ENGLAND SOUTH	<i>E<sup>ly</sup> and NE<sup>ly</sup> winds, moderate; dull and rainy to fair.</i>	WARNINGS	<i>NONE ISSUED.</i>

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.32	53	44	NNE 1	b	3	Holyhead ...	29.93	50	48	ENE 6	cm	5
Sumburgh Head ...	30.36	45	42	NE 3	c	6	Valencia ...	29.87	53	49	NE 5	omg	4
Stornoway ...	30.29	48	47	E 5	bc	5	Scilly ...	29.62	52	50	E 5	cpq	4
Aberdeen ...	30.26	47	45	ENE 6	p	7	Dungeness ...	29.79	51	48	ESE 4	c	3
Shields ...	30.09	47	46	NE 5	v	6	London ...	29.85	49	46	ESE 3	om	*
Ardrossan ...	30.11	49	47	NE 6	o	3	Yarmouth ...	29.88	48	47	E 5	c	5
Malin Head ...	30.12	49	48	ENE 4	c	4	Jersey ...	29.74	52	49	SSE 3	b	3
Mullaghmore ...	30.05	52	47	E 6	c	5	Rochefort ...	29.75	55	52	SW 4	c	2
Belmullet ...	30.06	50	47	ESE 4	c	*							

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

Yesterday morning's reports showed that the anticyclonic area over Russia was giving way rather decidedly, and that the distribution of pressure over Europe was becoming very complex. There was a shallow but irregularly formed band of low pressure covering southeast<sup>ern</sup> and central Europe, as well as France and the Bay of Biscay, and in this were several shallow minima, the principal one of which lay off Lisahant and was moving southwestwards. To the northward of this low pressure band was one of high pressure—extending from the northern part of our Islands, to Scandinavia, the Baltic and Russia, and having two maxima, one off our northern coast and the other over Central Russia. Still further to the northward (over the White Sea, northern Russia, and the Arctic Sea) there was a second low pressure area moving apparently southeastwards. Thus while NW and W<sup>ly</sup> breezes prevailed in the North, with rather unsettled weather and decreasing temperature, E<sup>ly</sup> winds were felt over the Baltic, N. Germany, the North Sea and British Isles, but W<sup>ly</sup> winds over the Bay of Biscay and the greater part of the Mediterranean. Temperature varied from 60° and more over the South<sup>ern</sup> and southeastern part of the Mediterranean and from 50° and more over Portugal, the Bay of Biscay, and the southwest coasts of our Islands, to several degrees below the freezing point, over northern Europe. The highest individual values were 66° at Malta and Palermo, 62° at Oran and La Calle (Algeria), 59° at Cagliari and Brindisi, 57° at Aqorte, 55° at Lisbon, 50° at Pembroke, Lundy and Drake Point, and 47° to 49° off the West of Scotland and at Malin Head. At Funchal (Madeira) the temperature was again 70°. The lowest values were 25° at Haparanda, 27° at Helsingfors and 31° at Stockholm, Kuopio, Helsingfors and Hangö.

There was no material change observed over northwestern Europe during the day.

### 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 10<sup>th</sup> November 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.		Weather.	Sea (0 to 9).	Shade Temp.	Max.	Min.	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).						
Haparanda ...	29.63	37	NW	4	bc	Ins.	29.91	+ .28	26	24	- 4	NW	2	b	*	39	28	-	-
Hernösand ...	29.95	40	NNW	6	b	Ins.	30.12	+ .06	35	33	+ 2	N	2	b	*	46	28	-	-
Stockholm ...	30.12	31	E	2	b	Ins.	30.04	- .20	31	?	- 1	N	2	b	*	39	28	-	-
Wisby ...	30.08	39	W	4	c	Ins.	30.00	- .25	41	39	+ 2	NE	4	o	*	43	34	-	-
Bodö ...	29.98	41	WNW	4	o	Ins.	30.14	+ .23	36	30	- 6	NNW	4	c	2	43	34	-	-
Christiansund ...	30.21	42	SW	2	o	Ins.	30.19	- .09	37	36	- 4	ESE	1	b	3	43	36	-	-
Skudesnaes ...	30.10	39	W	0	b	Ins.	30.07	- .20	37	35	+ 1	ESE	2	b	2	45	36	-	-
Christiania Fjord (Fæder)	30.10	39	NNW	2	b	Ins.	30.08	- .17	38	35	+ 3	NNE	5	b	1	41	32	-	-
Skagen (The Seaw)	30.10	35	W	0	o	Ins.	30.04	- .22	37	36	+ 1	ESE	1	o	0	39	34	-	-
Fanø ...	30.05	41	ESE	4	o	Ins.	29.99	- .16	39	38	- 2	ESE	5	o	*	45	39	-	-
Sumburgh Head	30.24	39	W	0	b	Ins.	30.06	- .31	43	42	+ 3	NE	3	o	3	46	37	-	-
Stornoway ...	30.25	43	E	4	c	Ins.	30.05	- .25	46	45	+ 2	E	4	o	3	47	38	-	-
Wick ...	30.25	42	W	0	o	Ins.	30.06	- .30	45	44	0	SE	2	m	2	52	32	-	-
Nairn ...	30.25	42	W	0	o	Ins.	30.04	- .27	38	37	- 3	WSW	1	o	1	45	35	-	-
Aberdeen ...	30.23	43	NNE	3	o	Ins.	30.00	- .27	42	41	- 4	NNW	1	cm	2	48	40	-	-
Leith ...	30.19	43	NE	2	o	Ins.	30.04	- .19	42	40	- 3	N	1	cm	*	46	40	0.05	-
Shields ...	30.14	45	NE	3	o	Ins.	30.00	- .16	44	41	- 3	NE	3	o	4	46	41	0.01	-
Spurn Head ...	29.99	46	NNE	5	T	Ins.	29.93	- .10	46	45	- 2	NNE	4	o	5	50	45	0.02	-
York ...	30.07	45	NE	1	m	Ins.	29.98	- .12	43	40	- 4	ESE	1	o	*	47	42	0.04	-
Loughborough	30.00	45	NNE	4	T	Ins.	29.93	- .11	43	42	- 3	NNE	3	o	3	47	41	0.10	-
Ardrossan ...	30.19	43	NE	2	cm	Ins.	30.06	- .16	40	38	- 5	NE	1	cm	1	46	35	-	-
Malin Head ...	30.17	47	ESE	3	cm	Ins.	30.07	- .09	44	42	- 3	NE	2	o	1	48	41	-	-
Mullaghmore ...	30.12	47	E	4	cm	Ins.	30.04	- .09	44	42	- 4	E	4	cm	2	50	43	-	-
Belmullet ...	30.11	47	E	3	o	Ins.	30.05	- .08	43	42	- 3	NNE	1	f	*	50	42	-	-
Donaghadee ...	30.14	49	E	6	c	Ins.	30.05	- .10	44	41	- 4	ESE	5	bc	4	50	43	-	-
Barrow-in-Furness	30.09	46	NE	3	bc	Ins.	30.00	- .08	40	38	- 8	NNE	2	o	*	51	39	-	-
Liverpool (Bidston)	30.06	46	NE	3	o	Ins.	29.99	- .08	41	38	- 6	NE	1	o	3	49	41	-	-
Holyhead ...	30.07	48	NE	5	c	Ins.	30.00	- .07	44	41	- 4	ESE	2	o	2	50	43	-	-
Parsonstown ...	30.09	48	NE	1	o	Ins.	30.05	- .03	37	36	- 11	W	0	b	*	51	37	-	-
Valencia ...	30.06	45	W	0	b	Ins.	30.02	- .01	45	42	- 4	NE	1	cm	0	52	41	-	-
Roche's Point ...	30.04	49	ESE	2	b	Ins.	30.00	+ .01	43	41	- 5	NNE	3	cm	3	53	40	-	-
Pembroke ...	30.00	48	NE	2	o	Ins.	29.95	- .04	45	43	- 2	NE	2	o	1	50	45	-	-
Scilly ...	29.94	50	NNE	2	bc	Ins.	29.92	+ .01	51	48	+ 1	N	3	o	3	52	43	0.01	-
Prawle Point ...	29.95	47	W	0	T	Ins.	29.89	- .06	44	43	- 4	N	3	o	2	53	41	0.05	-
Jersey ...	29.91	50	W	0	cq	Ins.	29.82	- .10	49	48	+ 1	N	4	cm	3	57	47	0.33	-
Hurst Castle ...	29.87	47	NNE	3	cm	Ins.	29.81	- .13	46	46	0	NNE	3	o	2	49	45	0.13	-
Dungeness ...	29.82	46	N	1	T	Ins.	29.78	- .10	48	46	+ 1	SE	4	T	3	49	46	0.70	-
London ...	29.88	47	E	3	T	Ins.	29.82	- .10	47	46	0	ESE	3	o	3	48	46	0.43	-
Oxford ...	29.93	45	NE	4	T	Ins.	29.87	- .11	44	43	- 2	N	3	o	3	47	44	0.38	-
Cambridge ...	29.92	46	N	2	T	Ins.	29.86	- .12	46	46	- 1	N	1	T	*	48	44	0.29	-
Yarmouth ...	29.90	47	E	6	org	Ins.	29.86	- .08	46	45	- 1	E	3	org	4	48	45	0.12	-
Cuxhaven ...	30.02	42	E	2	o	Ins.	29.95	- .08	44	43	+ 1	ESE	2	o	*	44	?	-	-
Berlin ...	29.98	46	ESE	2	o	Ins.	29.91	- .11	46	46	+ 2	N	1	f	*	48	?	0.01	-
Wiesbaden ...	*	*	*	*	*	Ins.	29.90	- .00	41	40	- 3	W	0	f	*	46	39	0.04	-
Munich ...	29.97	39	E	2	b	Ins.	29.90	- .07	35	35	0	W	0	f	*	46	?	-	-
The Helder ...	29.93	45	E	3	T	Ins.	29.90	- .05	44	44	- 1	E	1	f	1	46	43	0.04	-
Brussels ...	*	*	*	*	*	Ins.	29.88	- .00	44	43	- 1	SSE	1	f	*	47	42	0.20	-
Cape Gris Nez ...	29.81	46	SW	1	o	Ins.	29.79	- .07	45	45	- 1	SSE	3	T	2	50	45	0.47	-
Paris ...	29.91	45	S	1	o	Ins.	29.86	- .05	44	43	+ 3	S	1	o	*	52	?	0.12	-
Brest ...	29.97	50	N	1	o	Ins.	29.89	- .09	49	46	+ 6	NNW	4	o	4	55	41	-	-
Lorient ...	29.95	50	NNW	1	b	Ins.	?	?	48	47	+ 6	NNW	5	o	3	52	41	-	-
Roche fort ...	30.01	44	NE	1	m	Ins.	29.95	+ .02	44	44	+ 1	W	0	m	2	51	39	0.16	-
Belfort ...	30.00	40	NE	1	b	Ins.	29.91	- .04	37	36	- 3	W	1	f	*	50	30	-	-
Lyons ...	29.97	42	SSW	1	b	Ins.	29.96	- .03	40	39	+ 4	WSW	1	o	*	53	?	-	-
Nice ...	29.91	47	S	1	bc	Ins.	29.86	- .08	42	39	- 3	E	3	o	3	57	39	-	-
Perpignan ...	30.02	48	NW	3	bc	Ins.	29.99	+ .02	43	42	+ 6	NW	1	o	*	56	?	-	-
Biarritz ...	30.03	55	W	7	o	Ins.	29.98	+ .05	58	49	+ 5	WSW	5	c	2	55	46	0.39	-
Corunna ...	*	*	*	*	*	Ins.	30.05	+ .02	61	60	+ 8	SSW	5	T	2	63	?	-	-
Lisbon ...	30.15	59	S	1	o	Ins.	30.05	+ .02	61	60	+ 8	SSW	5	T	2	63	?	-	-

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



# WEATHER CHARTS

for 8 a.m. on *Thursday, 10<sup>th</sup> NOVEMBER.*

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 3 to 10;

→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

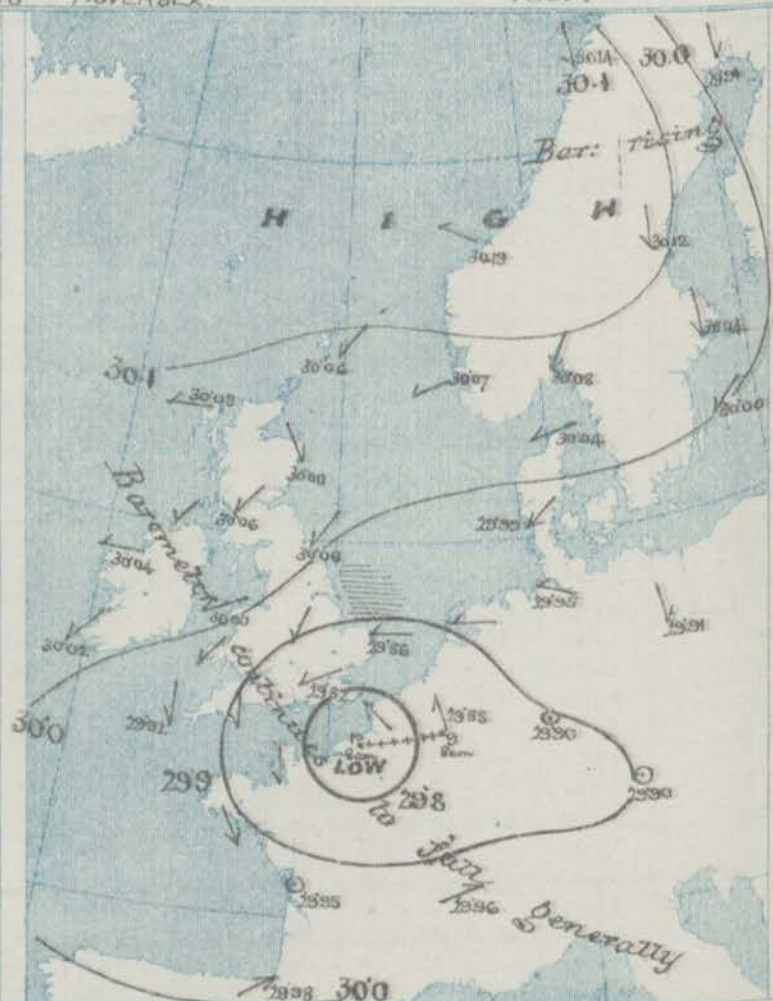
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head.	29.724
Stornoway.	29.755
Wick.	29.767
Nairn.	29.786
Aberdeen.	29.782
Leith.	29.820
Shields.	29.830
York.	29.847
Ardrossan.	29.824
Donaghadee.	29.832
Holyhead.	29.845
Liverpool.	29.862
Valencia.	29.880
Roche's Point.	29.875
Pembroke.	29.867
Seilly.	29.899
Hurst Castle.	29.885
Dover.	29.882
LONDON.	29.885
Oxford.	29.885
Cambridge.	29.878
Yarmouth.	29.865



## 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 November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
Sumburgh Head.	45.0	36.9	41.0	39.4	4.24
Stornoway.	45.0	36.2	40.3	39.1	4.60
Wick.	45.0	35.4	40.8	39.2	2.97
Nairn.	44.2	35.3	38.8	37.2	2.32
Aberdeen.	45.8	30.7	40.2	38.3	3.16
Leith.	48.2	36.6	40.9	39.4	2.11
Shields.	46.6	38.0	41.3	39.7	2.63
York.	47.3	35.4	39.7	38.4	2.21
Ardrossan.	47.6	38.8	42.2	39.8	3.92
Donaghadee.	47.8	39.4	42.5	41.3	3.13
Holyhead.	49.5	42.8	45.1	43.3	3.71
Liverpool.	47.2	39.0	41.5	39.8	2.87
Valencia.	52.0	42.3	46.8	44.6	5.50
Roche's Point.	50.4	41.6	45.3	43.6	4.56
Pembroke.	49.7	43.2	46.2	44.2	3.96
Seilly.	52.0	46.3	49.5	47.4	3.76
Hurst Castle.	50.0	39.5	44.1	43.1	2.98
Dover.	48.5	40.3	43.6	41.9	3.56
LONDON.	49.0	37.3	41.3	39.9	2.14
Oxford.	47.9	37.1	40.5	39.2	2.30
Cambridge.	48.5	35.3	39.6	38.6	2.02
Yarmouth.	47.4	38.8	42.6	41.6	3.15

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, 30.1 in: and upwards, in a large area lying over Scandinavia, and to the northward of Scotland. Lowest, 29.8 in: and less, in a shallow depression lying over the eastern part of the Channel. Gradients slight. Barometer falling at all but the northern Scandinavian stations, — most in Scotland.
TEMPERATURE	Highest, 61° at Lisbon, 53° at Hvaritz, 51° at Kelly, 49° at Jersey, and 48° at (Dungeness and Folkestone). Lowest, 26° at Haparanda, 31° at Stockholm, 35° at Helsingfors and Munich, 36° at Rode, and 37° at Christiania, Skutumpah, and Helsingfors.
WIND	Light or moderate from NE. over the greater part of our Islands, the North Sea, and the south of Scandinavia. Light SE. over Belgium and the Straits of Dover. Variable over Germany; light to fresh from SW. in the west of France.
WEATHER	Fine in Sweden, and fair at several of our western stations, as well as in the south of France. Dull elsewhere, with rain over Central and South-eastern England and fog in Germany. [Rain fell yesterday at all our eastern and southern stations, and aurora was seen at night at Wick.]
SEA	Rather rough at Spurn H., but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The depression off the south of England appears to be moving slowly in a westerly or south-westerly direction, and, as it passes away some improvement in the weather will probably take place at our southeastern stations.

A somewhat decided fall of the barometer is in progress over Scotland, but at present there are no definite indications of the advance of any fresh disturbance from the Atlantic.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>th</sup> November 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	Variable or E. winds; dull generally.	6 { SCOTLAND WEST	NE. winds, light; fair generally.
1 { SCOTLAND EAST	N. or NE. winds, light; cloudy generally.	7 { ENGLAND N. W.	— D° — D° — D°
2 { ENGLAND N. E.	— D° — D° — D°	8 { ENGLAND S. W.	N. to NE. winds, moderate; dull, some rain.
3 { ENGLAND EAST	Same as N° 5.	9 { IRELAND NORTH	Same as N° 6.
4 { MIDLAND COUNTIES	Same as N° 5.	10 { IRELAND SOUTH	Same as N° 6.
5 { ENGLAND SOUTH	NE. or E. winds, light; misty and rainy at first, some improvement later.	WARNINGS NONE ISSUED.	

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.15	44	40	NTW 4	bc	4	Holyhead ...	30.07	49	47	ENE 5	c	4
Sumburgh Head ...	30.33	41	39	Z 0	c	2	Valencia ...	30.05	52	48	E 1	om	0
Stornoway ...	30.27	46	45	E 4	b	3	Scilly ...	29.95	51	48	NE 2	c	3
Aberdeen ...	30.23	46	43	NNE 4	c	4	Dungeness ...	29.85	48	47	ENE 1	r	1
Shields ...	30.16	45	44	NE 3	T	5	London ...	29.90	48	47	NE 1	om	*
Ardrossan ...	30.18	46	44	NE 6	c	3	Yarmouth ...	29.91	47	46	E 6	og	5
Malin Head ...	30.17	47	46	E 2	c	3	Jersey ...	29.92	53	49	NE 1	c	1
Mullaghmore ...	30.13	49	47	E 6	og	4	Rocheport ...	29.98	48	46	SE 1	?	2
Belmullet ...	30.14	49	47	ENE 3	o	*							

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

Yesterday morning's reports showed a further reduction of pressure over Russia, but the low pressure areas over the Bay of Biscay and northeast of France were still separated from the large system over Northern Europe by a broad zone of high reading which lay over the north of our Islands, Scandinavia, the Baltic and Western Russia. To the southward of this band the wind was very variable — chiefly E<sup>3</sup> over the United Kingdom — and the weather was dull, with much rain over the southeastern half of England. To the northward, however, the wind was W<sup>4</sup> and the weather comparatively fair. Temperature had decreased over Russia, but remained singularly high (for that of an E<sup>3</sup> wind) over England. The values still varied from somewhat above 60° over the southern part of the Mediterranean, and from about 50° on our southwestern coasts to several degrees below the freezing point over Central and Northern Russia. The highest individual values were 64° at Tunis, Sfax, and Brindisi, 59° at Palermo, 58° at Palma, and 50° at Scilly; at Funchal (Madeira) the temperature was still 70°. The lowest values were 26° at Moscow, 28° at Riga, 30° at Archangel, Haparanda and St. Petersburg, 31° at Uleaborg and 32° at Helsingfors.

In London rain and fog continued all day, and pressure began to give way somewhat irregularly over the Continent and North Sea.

### 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 11<sup>th</sup> November 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.	Temp. in Shade.	Shade Temp.	Max.	Min.	Amount of Rainfall.
			Dir.	Force.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force.						
Haparanda ...	29.97	21	NW	2	b	29.83	-0.08	22	20	-4	N	2	c	*	37	21	-	-
Hernösand ...	30.17	25	N	0	b	30.04	-0.08	21	21	-4	N	0	b	*	41	?	-	-
Stockholm ...	30.14	35	NNE	2	b	30.07	+0.03	27	26	-4	N	0	b	*	41	27	-	-
Wisby ...	30.04	37	ESE	4	b	30.03	+0.03	34	31	-7	E	2	c	*	43	32	-	-
Bodö ...	30.11	34	NNE	4	b	29.89	-0.25	33	32	-3	N	4	c	2	36	32	-	-
Christiansund ...	30.08	36	E	1	b	30.00	-0.08	21	38	+4	NW	2	c	2	41	32	-	-
Skudesnaes ...	30.13	34	N	0	b	30.11	+0.04	38	32	+1	N	0	c	2	?	33	-	-
Christiania Fjord (Færder)	30.13	40	NNE	3	b	30.04	-0.04	36	30	-2	N	0	c	1	43	34	-	-
Skagen (The Scaw)	30.08	39	E	4	o	30.04	-0.00	36	35	-1	E	1	b	c	39	36	-	-
Faro ...	30.00	34	ESE	4	o	29.98	-0.01	37	36	-2	ESE	4	c	*	39	34	-	-
Sumburgh Head	30.10	43	N	0	o	30.13	+0.07	42	40	-1	N	0	c	1	45	40	-	-
Stornoway ...	30.05	45	E	3	o	30.14	+0.09	43	42	-3	N	2	c	2	47	40	-	-
Wick ...	30.08	42	N	0	o	30.14	+0.08	41	40	-4	NW	1	c	0	45	40	-	-
Nairn ...	30.07	42	N	0	o	30.15	+0.11	40	38	+2	N	0	c	1	42	36	-	-
Aberdeen ...	30.07	44	E	1	o	30.15	+0.15	43	40	+1	N	3	c	1	46	41	-	-
Leith ...	30.08	41	NW	1	o	30.12	+0.08	42	42	0	S	1	c	*	43	38	0.06	-
Shields ...	29.99	45	NE	2	o	30.08	+0.08	43	41	-1	NNE	1	c	3	45	41	0.01	-
Spurn Head ...	29.90	47	ESE	4	T	30.01	+0.08	46	45	0	N	4	c	4	47	43	0.06	-
York ...	29.97	44	N	1	T	30.06	+0.08	43	42	0	N	1	c	*	46	42	0.09	-
Loughborough	29.92	44	NNE	3	T	30.00	+0.07	44	44	+1	NNE	1	c	4	45	42	0.11	-
Androsan ...	30.04	42	NE	1	o	30.12	+0.06	40	39	0	N	2	c	1	45	36	-	-
Malin Head ...	30.01	42	N	2	om	30.11	+0.04	42	41	-2	S	1	om	1	45	41	-	-
Mullaghmore ...	30.02	43	ESE	2	om	30.08	+0.04	43	40	-1	ESE	3	c	2	44	42	-	-
Belmullet ...	30.01	44	ESE	2	o	30.09	+0.04	42	40	-1	E	2	c	*	46	40	-	-
Donaghadee ...	30.01	45	SE	3	c	30.10	+0.05	45	44	+1	N	4	c	2	46	43	-	-
Barrow-in-Furness	29.97	42	NNE	2	o	30.07	+0.07	42	40	+2	NNE	1	b	c	43	40	-	-
Liverpool (Bidston)	29.96	43	N	1	o	30.05	+0.06	43	42	+2	N	1	c	2	44	41	0.04	-
Holyhead ...	29.96	45	N	3	o	30.03	+0.03	45	44	+1	ESE	2	b	c	46	43	-	-
Parsonstown ...	30.00	41	N	0	o	30.05	0.00	40	39	+3	N	1	c	*	43	36	-	-
Valencia ...	29.97	48	N	1	om	30.02	-0.00	38	36	-7	NNE	1	b	m	51	38	-	-
Roche's Point ...	29.96	42	NNE	2	b	29.98	-0.02	42	40	-1	N	2	b	c	50	40	-	-
Pembroke ...	29.90	40	N	2	c	29.98	+0.03	44	43	-1	N	2	m	1	47	44	0.04	-
Scilly ...	29.87	50	N	5	o	29.91	-0.01	46	45	-5	E	2	o	3	51	45	0.05	-
Prairie Point ...	29.86	44	N	4	o	29.94	+0.05	43	42	-1	N	3	b	c	47	41	-	-
Jersey ...	29.78	47	NNE	2	rm	29.88	+0.06	48	47	-1	ESE	2	c	2	50	46	0.22	-
Hurst Castle ...	29.83	48	NNE	4	c	29.95	+0.14	43	43	-3	NNE	3	m	2	48	40	0.01	-
Dungeness ...	29.83	48	SSE	4	o	29.91	+0.13	46	44	-2	ESE	3	r	2	48	42	0.03	-
London ...	29.88	47	E	2	o	29.96	+0.14	43	42	-4	E	1	c	*	48	42	0.01	-
Oxford ...	29.89	45	N	1	o	30.00	+0.13	43	42	-1	N	2	c	*	46	40	0.05	-
Cambridge ...	29.89	47	N	0	o	30.00	+0.14	41	41	-5	N	1	om	*	48	38	0.07	-
Yarmouth ...	29.87	46	E	3	op	29.95	+0.09	45	44	-1	ESE	3	c	3	47	43	0.16	-
Cuxhaven ...	29.92	41	N	5	o	29.91	-0.04	40	39	-4	N	4	c	*	?	39	0.02	-
Berlin ...	29.80	46	NNE	4	o	29.76	-0.15	40	39	-6	NNE	3	r	*	46	39	0.08	-
Wiesbaden ...	*	*	*	*	*	29.83	-0.07	42	41	+1	N	0	c	*	48	34	-	-
Munich ...	29.84	40	N	3	o	29.78	-0.12	38	38	+3	N	5	r	*	43	?	0.16	-
The Helder ...	29.91	46	ESE	1	f	29.93	+0.03	43	42	-1	N	1	c	1	46	43	-	-
Brussels ...	*	*	*	*	*	29.91	+0.03	40	40	-4	E	1	c	*	49	37	0.04	-
Cape Gris Nez ...	29.82	45	E	1	m	29.87	+0.08	41	41	-4	E	4	b	2	48	39	0.04	-
Paris ...	29.85	41	E	1	b	29.97	+0.01	38	37	-3	N	1	b	*	45	37	-	-
Brest ...	29.88	50	NW	4	o	29.88	-0.01	42	41	-7	NNE	3	o	4	55	39	0.16	-
Lorient ...	29.88	50	NNE	5	o	29.88	?	44	42	-4	N	4	b	2	52	43	0.04	-
Rockfort ...	29.90	51	N	5	o	29.88	-0.07	49	47	+5	NNE	4	o	2	52	42	0.16	-
Belfort ...	29.92	43	NW	1	b	29.89	-0.02	32	32	-5	N	1	f	*	45	27	-	-
Lyons ...	29.90	44	ESE	1	b	29.85	-0.11	39	?	-1	S	1	df	*	52	37	0.08	-
Nice ...	29.78	47	E	3	b	29.77	-0.09	45	38	+3	ESE	3	c	2	55	39	0.16	-
Perpignan ...	29.94	51	N	0	o	29.89	-0.10	50	44	+7	NW	4	c	*	62	46	0.04	-
Biarritz ...	29.94	55	NNE	7	o	29.91	-0.07	52	48	-1	N	7	r	2	57	50	0.28	-
Corunna ...	*	*	*	*	*	30.04	-0.01	54	51	-7	NW	1	b	5	63	54	0.78	-
Lisbon ...	30.03	59	NNE	1	o	*	*	*	*	*	*	*	*	*	*	*	*	*

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



# WEATHER CHARTS

for 8 a.m. on *Friday, 11<sup>th</sup> November, 1887.*

## BAROMETER, WIND & SEA.

(Explanation of Map)

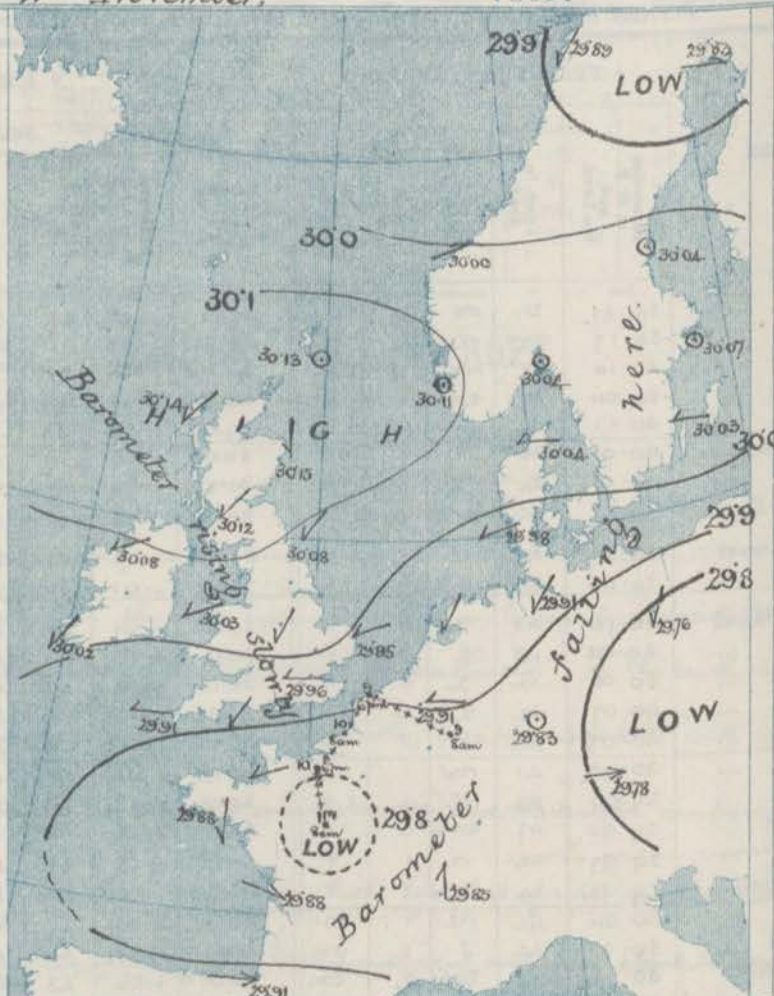
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 → = forces above 10; → = forces 8 to 10;  
 → = forces 5 to 7; →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

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

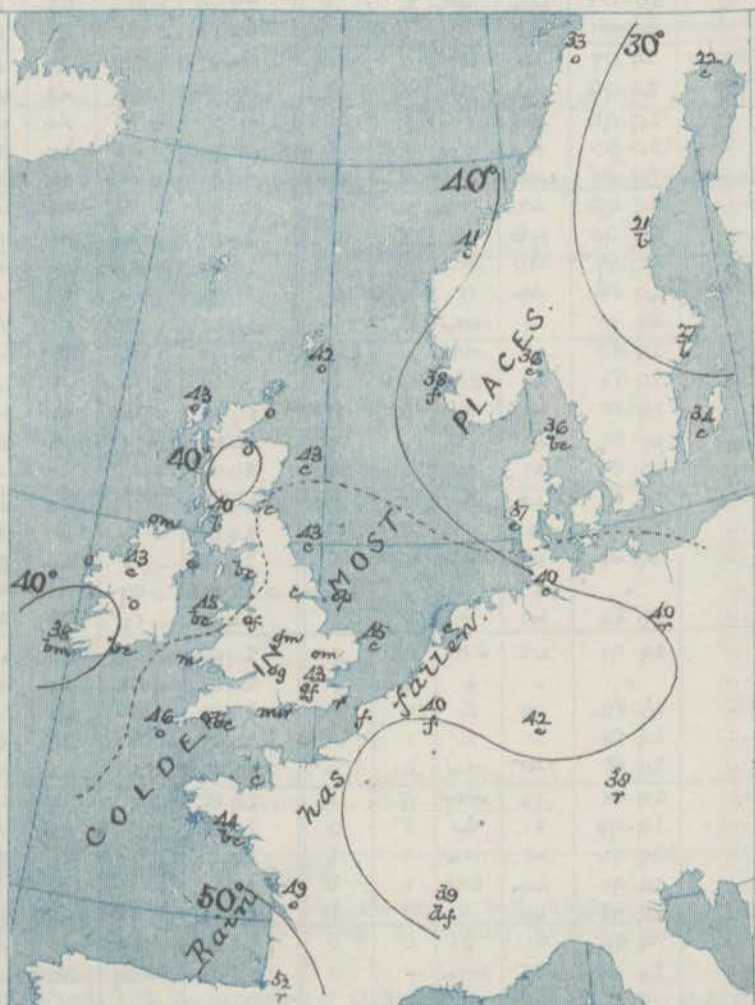
**Temperature** — Isotherms are drawn for each 10° changes, since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, 30.1 in. and upwards, in a large area lying over and to the northward of Scotland. Lowest, 29.8 in. and less, in a large depression lying over Germany and also in a smaller system lying over the inland part of the N. of France. Gradients slight everywhere. Barometer rising in our Islands, but falling at the Continental stations.
TEMPERATURE	Highest, 54° at Linton, 52° at Biarritz, 49° at Rochefort, 48° at Jersey, and 46° at L'Isle d'Orléans. Lowest, 21° at Helsingfors, 22° at Haparanda, 27° at Stockholm, and 33° at Rode; lowest in our Islands 38° at Valencia.
WIND	Light or moderate from the NE <sup>and</sup> over our Islands, the North Sea, Denmark, the Netherlands and North Germany. Calm at many of the Scandinavian stations. W <sup>ind</sup> over the southern parts of France and Germany, strong in force at Biarritz.
WEATHER	Fair in Sweden, Denmark, the west of our Islands and the south and east of England. Bustle elsewhere, with fog over the Netherlands and rain in Germany and the south of France. [Rain fell yesterday at all our eastern and southern stations, but the amounts were in most cases very slight.]
SEA	Moderate at L'Isle d'Orléans, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression recently noticed off the southeast and south of England is now moving slowly in a southerly direction across France.

A new disturbance has, however, appeared over Germany, and as the distribution of pressure is in favour of the advance of this system in a westerly direction any improvement in the weather which may take place over England today is likely to prove merely temporary.

## FORECASTS

for the 24 hours ending at NOON on 12<sup>th</sup> Nov<sup>r</sup> 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	Light breezes, chiefly N <sup>or</sup> ; fair generally, but cloudy.	6 { SCOTLAND WEST	NE <sup>er</sup> winds light; fair generally, but local fogs.
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.	NE <sup>er</sup> and E <sup>er</sup> winds, light or moderate; fair generally.
3 { ENGLAND EAST	Same as N° 5	9 { IRELAND NORTH	--- D° --- D° --- D° ---
4 { MIDLAND COUNTIES	Same as N° 5	10 { IRELAND SOUTH	--- D° --- D° --- D° ---
5 { ENGLAND SOUTH	NE <sup>er</sup> winds, light to fresh; fair to unsettled and some rain.	WARNINGS	NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenæs ...	30.10	49	42	25 0	6	2	Holyhead ...	29.96	45	40	NE 2	0	2
Sumburgh Head ...	30.08	44	43	NE 2	0	3	Valencia ...	29.97	50	48	25 0	om	0
Stornoway ...	30.04	46	45	E 4	0	3	Scilly ...	29.89	48	44	N 4	od	3
Aberdeen ...	30.04	45	41	NE 2	0	2	Dungeness ...	29.82	48	47	SSE 3	eq	2
Shields ...	29.99	44	42	NE 3	r	4	London ...	29.84	48	46	E 2	om d	*
Ardrossan ...	30.02	44	41	NE 1	om	1	Yarmouth ...	29.86	47	46	E 3	c	4
Malin Head ...	30.02	44	43	SW 2	0	0	Jersey ...	29.77	50	47	WNW 3	0	3
Mullaghmore ...	30.02	44	40	ESE 4	om	2	Rocheport ...	29.92	49	48	SW 1	r	?
Belmullet ...	30.02	46	44	SW 1	0	*							

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

The reports for yesterday morning showed that the high pressure area recently noticed over Russia had disappeared entirely, and that barometric readings varied from 30.1 ins: and more off the extreme north of our Islands and over Norway and from 30.1 ins: and more over the south of Spain to a little below 29.8 ins: in a depression which lay near Havre. N<sup>3</sup> and E<sup>3</sup> breezes prevailed over Northern and Northwestern Europe, with showers and variable winds over the south of England and north of France, with dull gloomy weather and rain. Temperature had changed little and irregularly in our neighbourhood but had fallen in the far south, and varied from 60° and more over the southern and southeastern parts of the Mediterranean and in Portugal and from more than 50° over Hungary and at the mouth of the Channel to several degrees below the freezing point over Northern Russia. The highest individual values were 64° at Malta, 63° at Brindisi, 61° at Annale (Algeria) and also at Lisbon, 56° at Hermannstadt, 53° at Biarritz, and 52° at Scilly; the lowest were 26° at Haparanda, 27° at Archangel, 29° at Uleaborg and Moscow, 30° at Kuopio, and 31° at Stockholm.

No important change was reported later, beyond a decrease in the rainfall at our southern stations and in 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).

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



# DAILY WEATHER REPORT.

for Saturday 12<sup>th</sup> November 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.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sun. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Inch.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)		Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.74	15	Z	0	b	29.70	-13	9	9	-18	N	2	b	*	23	9	1.0
Hernösand ...	29.87	26	Z	0	o	29.83	-21	26	24	+5	N	2	o	*	28	19	-
Stockholm ...	29.87	31	W	2	e	29.81	-26	25	23	-2	Z	0	b	*	36	?	-
Visby ...	29.91	36	NE	4	o	29.80	-23	36	33	+2	N	6	o	*	41	32	-
Bodö ...	29.88	28	N/E	4	b	29.73	-16	30	27	-3	N/E	4	s	2	27	27	-
Christiansund ...	29.98	39	W/W	4	T	29.88	-12	35	34	-6	E/E	4	T	3	34	34	0.24
Skudesneves ...	30.03	40	Z	0	o	29.97	-14	37	36	-1	N/W	2	o	3	43	37	-
Christiania Fjord (Færder)	29.93	32	N/E	4	o	29.88	-16	32	31	-1	Z	0	b	1	39	28	-
Skagen (The Scaw)	29.91	40	Z	0	o	29.88	-16	38	36	+2	N/E	1	be	1	?	36	-
Faßö ...	29.98	38	Z	0	o	29.91	-07	41	39	+2	NW	4	e	*	45	37	-
BRITISH ISLANDS.																	
Sumburgh Head	30.15	37	Z	0	o	30.07	-06	38	36	-4	N	2	o	1	43	35	0.01
Stornoway ...	30.21	42	Z	0	o	30.17	+03	39	39	-4	Z	0	o	2	44	37	-
Wick ...	30.19	42	NW	1	o	30.15	+01	41	40	0	NW	2	o	0	43	39	0.02
Nairn ...	30.21	42	Z	0	o	30.18	+03	39	36	-1	SW	1	o	1	44	37	-
Aberdeen ...	30.20	43	NW	1	o	30.16	+01	37	35	-6	W/W	1	o	1	47	35	-
Leith ...	30.18	42	SE	1	o	30.20	+08	41	38	-1	NW	1	em	*	46	40	-
Shields ...	30.16	45	NE	2	o	30.20	+12	42	39	-1	W/W	2	o	3	47	41	-
Spurn Head ...	30.09	43	NE	4	ogp	30.18	+17	44	42	-2	N	3	c	3	47	43	0.04
York ...	30.14	43	N	1	m	30.22	+16	42	40	-1	N	1	o	*	47	41	0.02
Loughborough	30.11	43	NE	2	o	30.21	+21	40	39	-4	Z	0	ogm	*	47	39	-
Androssau ...	30.19	44	NE	2	o	30.22	+10	43	40	+3	NW	1	om	1	44	38	-
Malin Head ...	30.19	45	SE	2	om	30.23	+12	44	43	+2	WSW	2	om	1	46	42	-
Mullaghmore ...	30.18	44	E	3	om	30.23	+15	45	42	+2	ESE	2	om	2	46	41	-
Belmullet ...	30.18	44	E/E	1	o	30.24	+15	43	42	+1	E	2	o	*	46	42	-
Donaghadee ...	30.19	47	E	3	c	30.28	+13	45	42	0	NE	4	e	2	48	43	-
Barrow-in-Farness	30.14	44	E	3	c	30.21	+14	42	39	0	ESE	1	om	*	47	41	-
Liverpool (blatton)	30.15	44	E/E	1	o	30.24	+19	42	38	-1	E	1	of	1	47	41	-
Holyhead ...	30.13	45	E/E	1	bcn	30.22	+19	42	39	-3	Z	0	m	0	48	42	-
Parsonstown ...	30.15	41	Z	0	b	30.23	+18	38	38	-2	Z	0	e	*	49	38	-
Vale of ...	30.11	47	N/E	2	c	30.20	+18	37	36	-1	Z	0	bm	0	52	37	-
Roche's Point ...	30.10	46	N/E	2	bc	30.18	+20	45	43	+3	NE	3	o	3	50	41	0.01
Pembroke ...	30.08	46	NE	2	bc	30.19	+21	43	41	-1	E	2	bc	1	50	42	-
Seilly ...	30.01	49	E	2	bc	30.17	+21	49	46	+3	E	4	c	4	52	45	-
Prawle Point ...	30.07	45	N/E	4	b	30.19	+25	39	38	-4	N/E	3	bc	2	52	37	-
Jersey ...	30.02	47	E/E	1	om	30.14	+26	46	43	-2	N/E	2	bm	2	52	42	-
Hurst Castle ...	30.04	45	N/E	3	m	30.18	+23	42	41	-1	N/E	3	cq	2	48	36	-
Dungeness ...	30.00	46	E/E	4	c	30.13	+22	44	42	-2	SE	3	cq	2	48	39	0.02
London ...	30.07	45	N/E	2	bc	30.17	+21	42	40	-1	N	1	ogf	*	48	41	0.03
Oxford ...	30.12	41	NE	2	o	30.21	+21	39	38	-4	NE	1	c	*	47	38	0.02
Cambridge ...	30.07	42	NE	1	o	30.20	+20	40	40	-1	Z	0	o	*	47	39	0.04
Yarmouth ...	30.01	44	NE	3	c	30.15	+20	45	42	0	NE	3	e	3	46	42	0.01
Cuxhaven ...	29.95	39	N/E	3	c	29.99	+08	40	39	0	NW	3	o	*	42	38	-
Berlin ...	29.85	39	NE	3	o	29.97	+21	34	33	-6	NW	1	o	*	45	?	-
Wiesbaden ...	+	*	*	*	*	30.08	+25	40	37	-2	NE	1	o	*	46	39	0.04
Munich ...	29.80	36	W	4	T	29.98	+20	33	33	-5	W	3	s	*	39	32	0.39
FRANCE & NETHERLANDS.																	
The Helder ...	30.03	42	N/E	1	c	30.10	+17	46	42	+3	N	3	e	2	46	?	-
Brussels ...	+	*	*	*	*	30.15	+24	41	39	+1	N/E	1	o	*	45	40	0.04
Cape Gris Nez ...	29.95	42	E	4	c	30.14	+27	41	39	0	SE	1	o	2	48	39	0.12
Paris ...	29.98	44	N/E	4	o	30.12	+25	40	38	+2	NE	3	o	*	50	37	-
Brest ...	29.95	45	N	1	o	30.10	+22	44	42	+2	SE	3	b	3	53	41	-
Lorient ...	30.01	47	NE	3	b	30.10	+22	42	41	-2	E	3	b	2	50	39	-
Rochefort ...	29.97	48	N/E	5	b	30.13	+25	37	37	-12	E/E	5	f	2	54	34	-
Belfort ...	29.87	40	N	1	o	30.03	+14	38	37	+6	E/E	1	o	*	44	30	-
Lyons ...	29.90	40	N	3	b	30.03	+18	39	37	0	?	5	o	*	46	36	0.04
Nice ...	29.73	47	Z	0	b	29.78	+01	46	44	+1	E/E	3	b	3	55	37	-
Perpignan ...	29.90	51	NW	4	bc	29.99	+10	46	42	-4	N	3	b	*	59	43	-
Biarritz ...	29.96	54	N	5	o	30.02	+11	46	46	-6	ESE	4	bc	1	54	34	0.20
Corunna ...	+	*	*	*	*	+	+	+	+	+	+	+	+	+	+	+	-
Lisbon ...	30.02	56	W	3	b	30.01	-03	51	51	-3	N	3	f	2	63	?	-

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday, 12<sup>th</sup> November, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

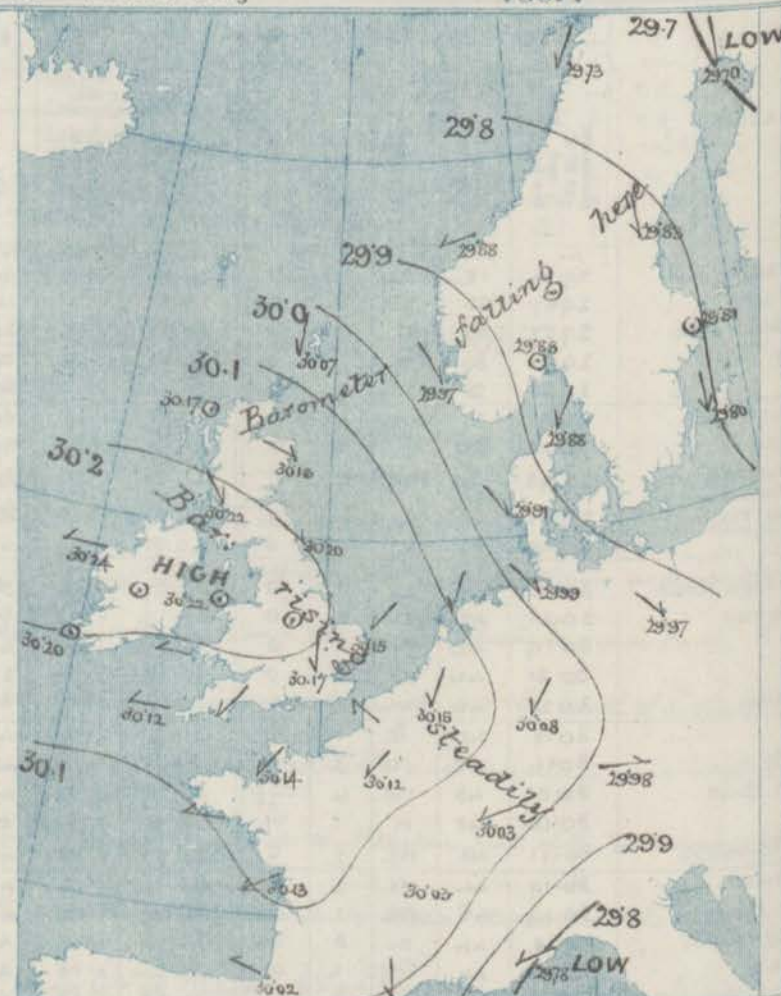
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — forces above 10, — forces 8 to 10,  
 — forces 5 to 7, — forces 1 to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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.787
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.809
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

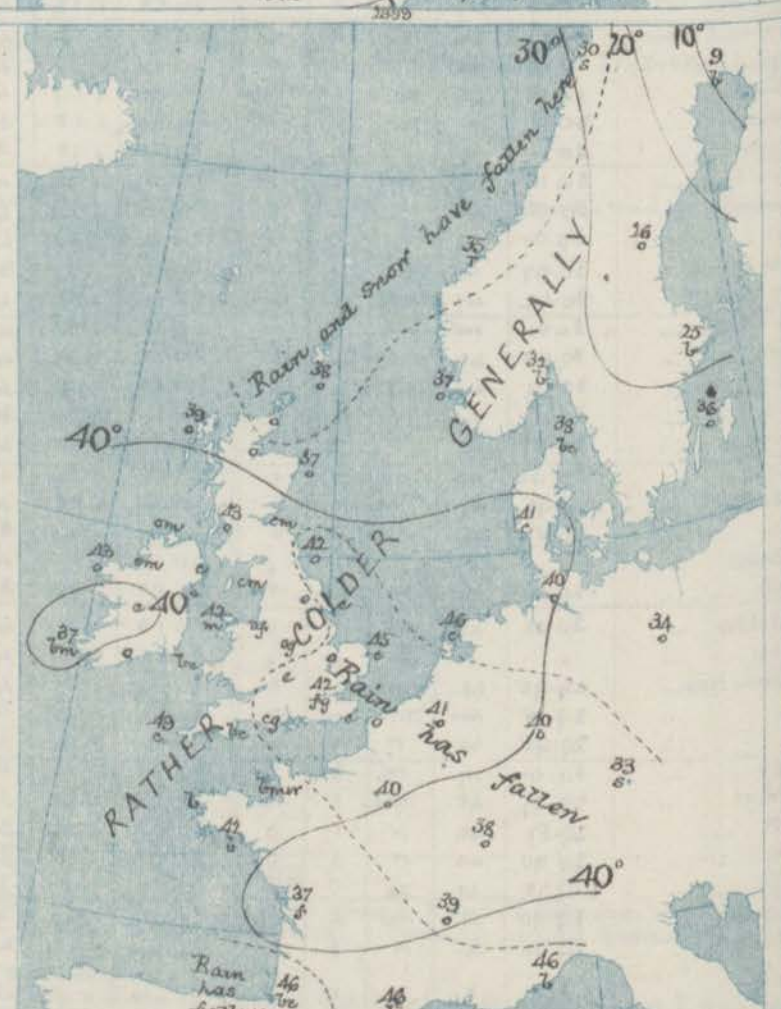
**Temperature**—Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** is shown by Letters of the Beaufort Scale.  
**Rainfall**. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS.	TEMPERATURE				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 an anticyclone lying over the greater part of Ireland and England.  
Lowest, 29.7 ins: at Haparanda, 29.8 ins: and less, in a depression lying over the Gulf of Genoa.  
Gradient slight. Barometers falling in Scandinavia, Denmark and Scotland, but rising elsewhere.

### TEMPERATURE

Highest, 51° at Lisbon, 49° at Scilly, 46° at Jersey, Helder, Biarritz, Perpignan and Nice.  
Lowest, 3° at Haparanda, 25° at Stockholm, 26° at Helsingfors, 30° at Bodö, 32° at Lander, and 33° at Helsing.

### WIND

Light W<sup>ly</sup> or NW<sup>ly</sup> over Scotland and the eastern shores of the North Sea.  
N<sup>ly</sup> in Sweden and the Netherlands; NE<sup>ly</sup> or E<sup>ly</sup> over the greater part of England, Ireland and France.

### WEATHER

Fine in Sweden and Denmark, as well as at many of our western and southern stations.  
Dull elsewhere, with snow at Bodö and Malmö, rain at Christiansund, and fog or mist at many of the English stations.  
Slight rain again fell yesterday at many of our eastern and southern stations.

### SEA

Moderate at Scilly, but slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over our Islands is apparently still moving southwards, and depressions are likely to appear off our extreme northern coasts shortly. Over England, however, fair weather will probably continue for a time.

## FORECASTS

for the 24 hours ending at NOON on 13<sup>th</sup> Nov<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW <sup>ly</sup> and W <sup>ly</sup> winds, moderate; fair generally but cloudy.
7	SCOTLAND EAST	D° ——— D° ——— D°
2	ENGLAND N. E.	D° ——— D° ——— D°
3	ENGLAND EAST	Same as N° 5.
7	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	NE <sup>ly</sup> winds light; fair generally, but frosty and foggy at night.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Light breezes, chiefly NE <sup>ly</sup> ; dull, some mist or fog.
7	ENGLAND N. W.	D° ——— D° ——— D°
8	ENGLAND S. W.	E <sup>ly</sup> winds, light or moderate; fine generally.
9	IRELAND NORTH	E <sup>ly</sup> winds, shifting to NW or W; fair generally, but cloudy.
10	IRELAND SOUTH	Same as N° 8.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Szuleenæs ...	30.06	42	39	NW 2	0	2	Holyhead ...	30.09	49	45	ENE 3	bcw	2
Sumburgh Head ...	30.04	41	39	N 1	0	0	Valencia ..	30.06	51	49	E 2	cm	2
Stornoway ...	30.19	44	42	N 0	0	2	Scilly ...	29.97	51	48	E 2	bcw	4
Aberdeen ...	30.16	46	41	N 2	0	1	Dungeness ...	29.94	48	46	ENE 8	c	2
Shields ...	30.41	47	42	NE 2	0	3	London ...	30.01	48	45	NE 2	c	*
Ardrossan ...	30.16	44	43	NE 2	0	1	Yarmouth ...	29.98	45	43	ENE 5	cp	4
Malin Head ...	30.16	44	43	N 4	c	0	Jersey ...	29.95	51	49	E 3	b	3
Mullaghmore ...	30.43	46	43	E 4	c	2	Rochefort ...	29.91	51	49	NW 5	c	2
Belmullet ...	30.13	46	42	ENE 1	0	*							

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

The reports for yesterday showed that the distribution of pressure over Europe was becoming less complex, and the gradients were less steep than at any previous time during this week. Barometric reading varied from 30.1 ins: over Scotland and the north of Ireland, and from 30.0 ins: and more, in a band which extended thence in an E<sup>th</sup> direction over the North Sea, Baltic and Finland to rather below 29.5 ins: over Northern Europe and to rather below 29.8 ins: over Germany and Central France. The wind had become light everywhere, but was chiefly NE<sup>th</sup> over the southern parts of the Baltic, Holland and the British Islands, NW<sup>th</sup> over the Gulf of Bothnia and Finland and also over the southern parts of France. Gloomy, showery weather still prevailed over Germany, France, and the south and east of our Islands, but comparatively fair weather in the north. Temperature was falling very generally, but was still slightly above 60° over the southern parts of the Mediterranean, and varied between 38° and 46° over the British Isles, whilst it was several degrees below the freezing point over Northern Europe. The highest individual values reported were 64° at Spitz and 61° at Oran (Algeria), 61° at Malta, 60° at Prindisi, Cagliari, and San Fernando, 55° at Palermo, 52° at Biarritz and 46° at Scilly; the lowest were 21° at Uleaborg, Helsingfors and Helsingland, 22° at Haparanda, 24° at St. Petersburg and Moscow, 27° at Stockholm. At Valencia (Ireland) the temperature had fallen to 38°.

Later in the day the depressions over France and Germany began to fill up, the anticyclone in the north showed signs of moving southwards, and the general appearance over western and central Europe became quiet and settled.

Erratum. In the Summary of Meteorological Observations for September, recently issued, the mean maximum temperature for Holyhead was erroneously given as 49.3 should be 59.3

### 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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STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 82° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.65	4	Z	0	b	29.60	— .10	10	10	+ 1	Z	0	o	*	19	3	—	
Hernösand ...	29.73	18	Z	0	b	29.75	— .08	15	15	— 11	Z	0	b	*	34	?	—	
Stockholm ...	29.81	28	Z	0	c	29.84	+ .03	23	21	— 2	NW	2	b	*	32	?	—	
Wisby ...	29.87	37	NW	6	o	29.82	+ .02	34	31	— 2	NNW	4	bc	*	46	32	—	
Bodö ...	29.69	24	ESE	2	o	29.86	+ .13	21	18	— 9	SE	2	c	1	30	21	—	
Christiansund...	29.90	32	NE	4	s	29.93	+ .05	30	28	— 5	NE	1	o	3	43	27	0.28	
Skudesnaes ...	29.93	35	Z	0	b	29.93	— .04	36	32	— 2	NNW	2	o	2	39	?	—	
Christiania Fjord (Farder)	29.84	32	N	3	b	29.84	— .04	34	32	+ 2	N	2	c	1	37	32	—	
Skagen (The Scaw)	29.82	39	NE	1	b	29.84	— .04	35	34	— 3	Z	0	bc	0	39	32	—	
Faßö ...	29.93	41	WNW	5	o	29.92	+ .01	40	39	— 1	NW	3	c	*	43	39	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.04	38	N	3	c	30.08	+ .01	34	34	— 4	N	2	c	1	39	32	0.02	
Stornoway ...	30.14	41	N	2	o	30.09	— .08	34	34	— 5	NE	3	bc	2	43	31	—	
Wick ...	30.12	38	NW	1	bc	30.08	— .05	36	36	— 5	NW	1	a	0	41	29	0.07	
Nairn ...	30.13	40	SW	1	o	30.08	— .10	38	36	— 1	SW	1	o	1	42	37	0.07	
Aberdeen...	30.13	40	W	1	c	30.08	— .08	35	34	— 2	NW	2	b	1	43	34	0.01	
Leith ...	30.17	40	W	1	mv	30.09	— .11	39	38	— 4	S	1	m	*	43	38	—	
Shields ...	30.18	42	W	2	o	30.08	— .12	39	36	— 3	Z	0	cm	2	44	38	—	
Spurn Head ...	30.18	43	WNW	3	o	30.11	— .07	41	40	— 3	W	3	ogm	3	45	40	—	
York ...	30.21	42	N	1	o	30.11	— .11	39	37	— 3	W	1	o	*	45	38	—	
Loughborough	30.22	42	WNW	1	o	30.14	— .07	39	37	— 1	NE	1	ogm	*	44	38	—	
GERMANY.																		
Ardrossan ...	30.17	44	Z	0	o	30.09	— .13	40	39	— 3	ENE	1	om	1	46	39	—	
Malin Head ...	30.24	44	N	2	bc	30.10	— .13	43	43	— 1	WSW	2	cb	2	45	41	0.03	
Mullaghmore ...	30.21	44	E	1	o	30.12	— .11	36	35	— 9	SW	1	b	1	45	35	—	
Beltmullet ...	30.21	45	ESE	2	o	30.10	— .14	43	42	— 0	NE	1	o	*	46	43	0.07	
Donaghadee ...	30.22	43	S	1	o	30.10	— .13	41	40	— 4	W	1	o	0	45	40	—	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.20	43	NE	1	o	30.11	— .10	42	39	— 0	S	3	o	*	44	42	—	
Liverpool (Bidston)	30.22	41	WSW	1	o	30.11	— .13	38	35	— 4	S	1	o	1	43	38	—	
Holyhead ...	30.21	42	Z	0	m	30.11	— .11	43	40	+ 1	SSW	1	m	1	44	40	—	
Parsonstown ...	30.21	42	Z	0	e	30.13	— .10	27	27	— 11	Z	0	f	*	45	26	—	
Valencia ...	30.20	43	Z	0	c	30.10	— .10	43	40	+ 6	NNE	2	om	1	51	37	—	
Roche's Point...	30.18	45	ENE	2	o	30.04	— .09	39	36	— 6	NE	2	b	3	47	38	—	
Pembroke ...	30.16	43	ENE	2	m	30.07	— .12	41	39	— 2	NE	2	og	1	46	39	—	
Scilly ...	30.12	46	E	4	c	29.99	— .13	48	44	— 1	E	4	u	3	51	43	0.07	
Prawle Point ...	30.17	45	ENE	4	o	30.04	— .15	44	40	+ 5	E	4	o	3	47	37	—	
Jersey ...	30.16	47	E	3	o	30.05	— .09	42	39	— 4	ENE	3	om	3	52	41	—	
Hurst Castle ...	30.18	45	ESE	3	o	30.09	— .09	43	42	+ 1	SE	3	cg	1	46	40	—	
Dungeness ...	30.17	44	NE	1	c	30.12	— .01	45	42	+ 1	S	3	cg	2	47	42	0.01	
London ...	30.20	44	Z	0	o	30.12	— .05	42	41	— 0	ESE	1	og	*	47	41	—	
Oxford ...	30.23	42	Z	0	o	30.13	— .08	40	37	+ 1	ENE	1	o	*	46	39	—	
Cambridge ...	30.20	42	Z	0	o	30.15	— .05	40	38	— 0	SW	1	o	*	44	38	—	
SPAIN.																		
Yarmouth ...	30.18	43	NNW	2	c	30.13	— .02	40	37	— 5	WNW	1	f	4	46	38	—	
Cuxhaven ...	30.00	40	NNW	3	o	29.99	— .00	41	40	+ 1	WNW	2	c	*	43	40	0.02	
Berlin ...	29.95	40	W	2	o	29.98	+ .01	40	39	+ 6	WSW	4	o	*	41	?	0.04	
Wiesbaden ...	*	*	*	*	*	30.16	+ .08	40	39	— 0	W	1	o	*	43	39	—	
Munich ...	30.14	32	W	1	o	30.16	+ .18	34	31	+ 1	Z	0	o	*	36	30	0.04	
PORTUGAL.																		
The Helder ...	30.12	46	NW	3	o	30.08	— .02	44	40	— 2	W	3	c	3	46	?	—	
Brussels ...	*	*	*	*	*	30.15	— .00	40	39	— 1	WSW	1	j	*	45	39	—	
Cape Gris Nez...	30.18	43	Z	0	o	30.13	— .01	41	39	— 0	Z	0	o	0	48	39	—	
Paris ...	30.21	40	NE	3	o	30.14	+ .02	31	29	— 9	NE	1	b	*	45	29	—	
Brest ...	30.11	45	SE	4	bc	30.00	— .10	41	40	— 3	ENE	5	o	2	34	39	—	
Lorient ...	30.12	48	ESE	3	o	29.98	— .12	41	37	— 1	ESE	5	o	2	50	37	—	
Rochefort ...	30.12	43	E	5	m	30.00	— .13	40	38	+ 3	E	5	r	3	46	36	—	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	30.12	37	NNW	5	b	30.14	+ .11	30	30	— 9	NNE	1	b	*	46	30	—	
Nice ...	29.92	49	E	3	b	30.10	+ .02	46	38	— 0	E	1	b	2	57	43	—	
Perpignan ...	30.05	44	Z	0	b	30.05	+ .06	36	36	— 10	Z	0	o	*	56	34	—	
Biarritz ...	29.96	46	E	7	o	29.89	— .15	55	47	+ 4	S	4	bc	2	55	46	—	
Corunna ...	*	*	*	*	*	29.71	— .13	60	57	+ 7	E	1	r	2	61	50	0.07	
Lisbon ...	29.96	59	S	3	bc	29.86	— .15	61	60	+ 10	S	7	o	4	63	57	—	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 13<sup>th</sup> November

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

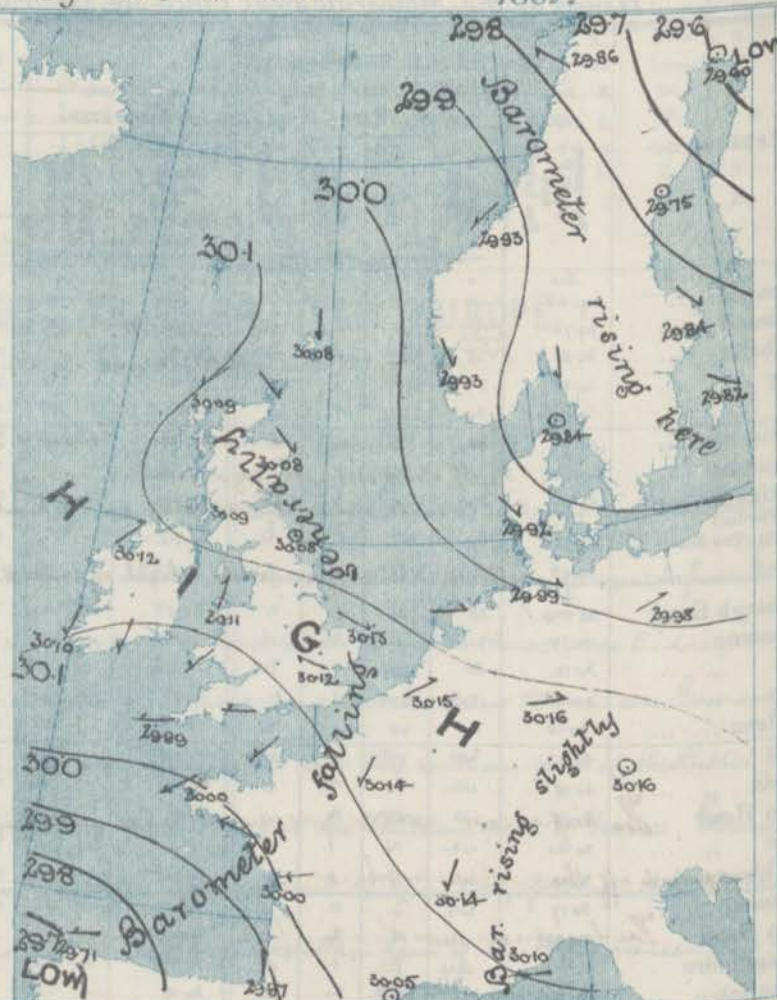
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — forces above 10, — forces 6 to 10,  
 — forces 5 to 7, — forces 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 November.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

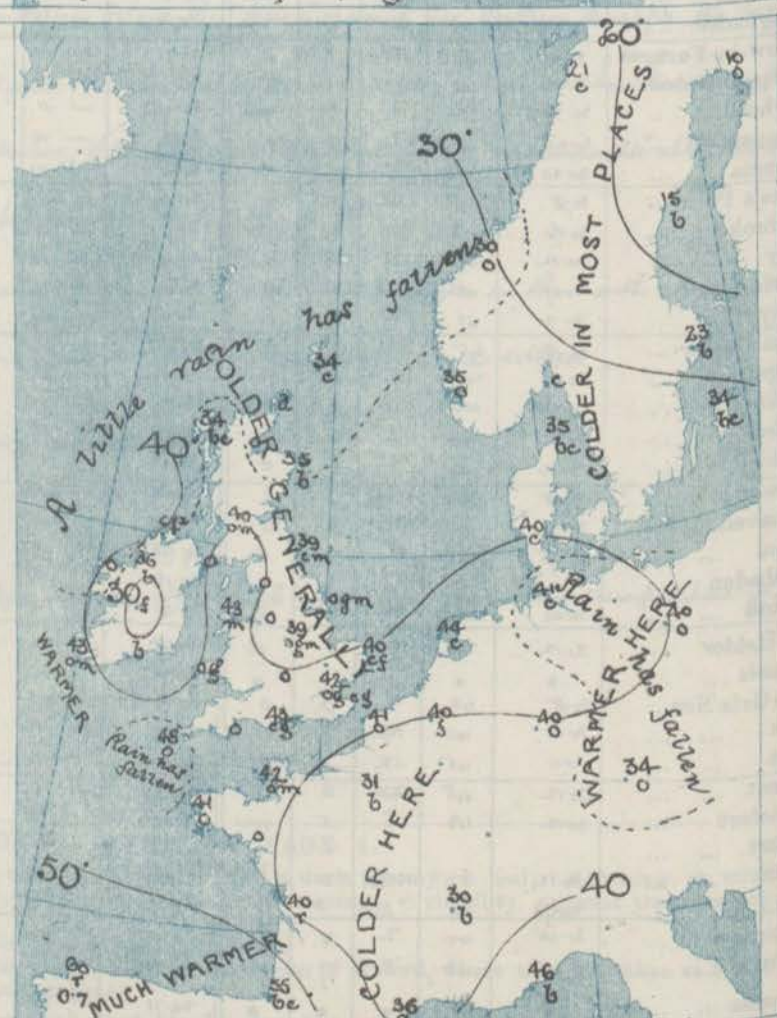
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	At 8 a.m. Dry	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	35.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.06
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.0	41.6	3.15

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, 30.1 ins: and upwards, in a long band extending from the Adriatic to the coast of Ireland.  
 Lowest, 29.6 ins: at Haparanda, 29.7 ins: and less, in a depression lying off the northwest of Spain.  
 Gradients moderate over Bay of Biscay slight elsewhere. Barometer falling at all but the Scandinavian and German stations — most in Spain and the W of France.

## TEMPERATURE

Highest, 61° at Lisbon, 60° at Fiume, 55° at Bignitz, 48° at Seilly, 46° at Nice, and 45° at Dungeness.  
 Lowest, 10° at Haparanda, 15° at Helsingfors, 21° at Rode, 23° at Stockholm, 27° at Ramsgate and 30° at Christiansund.

## WIND

Light from NW. over Denmark, the south of Scandinavia and the north and east of our Islands.  
 E. over the greater part of France and the south of England: strong from S at Lisbon.

## WEATHER

Fine in Sweden, Denmark and the east of France, as well as at some of the Irish and Scotch stations.  
 B. elsewhere, with fog or mist in many parts of our Islands and rain at Rochefort.  
 (A little rain fell yesterday in the north of our Islands).

## SEA

Moderate at Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed over our Islands yesterday has almost entirely dispersed, and a well marked depression has appeared off the northwest of Spain.

The barometer has therefore fallen generally, — most in Spain and the west of France.

## FORECASTS

for the 24 hours ending at NOON on 14<sup>TH</sup> Nov<sup>R</sup> 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.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenæs ...	29.94	39	38	NNW 2	r.f.	2	Holyhead ...	30.23	43	39	SSE 1	0	0
Sumburgh Head ...	30.06	38	36	NNW 2	c	2	Valencia ...	30.19	50	46	E 2	cml	1
Stornoway ...	30.17	42	42	N 2	c	2	Scilly ...	30.26	49	44	E 4	b	4
Aberdeen ...	30.15	42	39	W 2	0	1	Dungeness ...	30.17	46	43	2	0	0
Shields ...	30.19	44	42	W 2	0	2	London ...	30.20	47	42	2	0	ogf
Ardrossan ...	30.20	46	43	W 1	0	1	Yarmouth ...	30.18	45	42	2	0	c
Malin Head ...	30.22	44	43	WSW 2	c	1	Jersey ...	30.15	49	46	E 3	ogm	3
Mullaghmore ...	30.23	45	41	2	0	0	Rocheport ...	30.18	44	43	ENE 5	m	2
Belmullet ...	30.22	46	44	S 1	0	*							

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

Yesterday morning's reports showed that pressure varied from between 30.1 ins: and 30.3 ins: over the British Isles and north of France to rather below 29.7 ins: both over Northern Russia and South-eastern Europe and to about 30.0 ins: in the west of Portugal. Over the British Isles and France the barometer was rising, but elsewhere it was falling, though the change was not great. Thus, while N<sup>2</sup> and NW<sup>2</sup> winds (strong to gale in places) were reported over the Baltic, Scotland and North Sea, accompanied by cold but dry weather, light NE and E winds were reported in France, the Bay of Biscay, and the south of our Islands, with dull gloomy weather, and cold showers at times. Temperature was going very generally — most in the north, and varied from a little above 60° over the southernmost parts of the Mediterranean and from rather above 50° in Portugal to many degrees below the freezing point over Northern and the Baltic, and to below 40° in several parts of the British Isles. [The reports from the greater part of the Mediterranean are wanting.] The highest individual values were 63° at Algiers, 51° at Lisbon, and 49° at Sicily; the lowest were 3° at Haparanda, 14° at Uleaborg and Moscow, 20° at Kuopio, 25° at Stockholm, 27° at Memel, 30° at Bodö, 34° at Berlin, 37° at Aberdeen, Valencia and Rochefort.

Later in the day the cold area became still more extensive, but the NW<sup>2</sup> wind over the Baltic began to lull.

### 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 14<sup>th</sup> November

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.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)			In.	Diff. from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.63	8	N	4	b	29.76	+16	2	2	-8	N	2	b	*	16	?	Inc.		
Hernösand ...	29.79	13	W	0	b	29.85	+10	18	15	0	N	2	b	*	26	10	-		
Stockholm ...	29.85	21	W	0	b	29.85	+01	16	15	-7	W	0	b	*	29	?	-		
Wisby ...	29.82	24	NNE	4	b	29.78	-04	26	26	-8	ENE	4	b	*	3	?	-		
Bodo ...	29.73	17	E	2	b	29.91	+05	14	11	-7	E	2	b	1	21	12	-		
Christiansund...	29.86	30	NNW	4	0	29.86	-07	30	28	0	NNW	3	b	3	?	27	-		
Skudesnaes ...	29.88	33	NNW	2	0	29.86	-07	30	28	-5	NNE	2	b	2	36	?	-		
Christiania Fjord (Furder)	29.84	32	N	4	b	29.85	+01	25	25	-9	NNE	3	b	1	43	?	-		
Skagen (The Seaw)	29.79	31	ENE	3	0	29.81	-03	29	28	-6	ENE	2	b	2	39	?	0.04		
Fanö ...	29.81	39	NW	4	c	29.77	-15	30	28	-10	NE	2	b	*	45	30	0.04		
SCOTLAND.																			
Sumburgh Head	29.98	31	N	1	0	29.95	-13	30	30	-4	N	2	S	1	35	27	0.02		
Stornoway ...	30.04	38	E	3	0	29.89	-20	38	36	+4	SE	5	b	4	42	32	0.05		
Wick ...	30.03	34	NW	1	0	29.96	-12	37	34	+1	NE	2	0	1	38	32	0.02		
Nairn ...	30.02	36	W	0	r	29.91	-17	34	33	-1	W	0	0	1	40	34	0.07		
Aberdeen ...	30.00	38	NW	3	r	29.89	-19	35	34	0	NNW	4	op	2	42	34	0.07		
Leith ...	29.98	39	W	1	0	29.89	-20	38	36	-1	N	1	0	*	43	36	-		
Shields ...	29.96	40	W	0	b	29.85	-23	37	36	-2	W	2	r	2	42	35	0.08		
Spurn Head ...	29.95	41	NNW	2	0	29.78	-33	43	40	+2	NE	5	b	4	43	39	0.06		
York ...	29.97	39	W	1	0	29.83	-28	37	36	-2	NW	1	0	*	43	35	-		
Loughborough	29.97	39	W	0	0	29.80	-34	38	38	-1	NE	2	op	*	42	37	0.02		
IRISH ISLANDS.																			
Ardrossan ...	29.99	42	ENE	1	0	29.88	-21	34	33	-6	ENE	2	cm	1	46	32	-		
Malin Head ...	30.00	42	NNW	1	b	29.85	-25	42	40	-1	NNE	2	c	2	45	41	0.06		
Mullaghmore ...	30.00	41	W	0	c	29.88	-24	36	36	0	SEW	1	c	1	58	35	-		
Belmullet ...	30.02	43	N	1	0	29.90	-20	40	38	-3	NNW	1	0	*	45	39	0.04		
Donaghadee ...	29.98	52	NNE	1	r	29.87	-23	39	38	-2	W	3	c	1	45	39	0.07		
Barrow-in-Furness	29.98	40	N	2	0	29.84	-27	38	36	-4	NE	2	0	*	43	38	-		
Liverpool (Bidston)	29.96	40	SE	1	0	29.84	-27	38	36	0	NE	1	0	2	41	38	-		
Holyhead ...	29.97	42	W	0	0	29.86	-25	40	38	-3	ENE	1	cm	1	44	39	0.01		
Parsonstown ...	29.99	38	W	0	0	29.91	-12	38	36	+11	W	0	0	*	39	26	-		
Valencia ...	29.98	43	NNE	2	0	29.95	-15	45	41	+2	N	3	cv	2	47	35	-		
Roche's Point...	29.98	40	NE	3	b	29.89	-20	42	40	+3	N	2	c	3	45	38	-		
Pembroke ...	29.91	43	ENE	2	0	29.82	-25	42	39	+1	NE	2	cm	1	43	37	-		
Scilly ...	29.82	46	NE	4	0	29.82	-17	41	42	-1	NNE	4	0	3	48	43	0.10		
Pravie Point ...	29.83	51	ENE	6	r	29.79	-25	35	34	-9	NNW	1	b	1	45	33	0.47		
Jersey ...	29.80	38	ENE	4	r	29.68	-37	43	41	+1	NNE	4	om	3	43	37	0.71		
Hurst Castle ...	29.87	42	ENE	5	0	29.69	-40	38	38	-5	N	4	op	2	45	34	0.29		
Dungeness ...	29.90	44	ENE	4	c	29.56	-56	45	42	0	E	5	0	4	45	43	-		
London ...	29.96	41	E	2	0	29.68	-44	40	38	-2	NE	4	0	*	42	39	-		
Oxford ...	29.92	37	E	2	0	29.75	-38	38	37	-2	N	2	op	*	41	35	-		
Cambridge ...	29.96	40	N	1	0	29.72	-43	40	39	0	N	2	c	*	42	35	-		
Yarmouth ...	29.95	40	NW	1	0	29.70	-43	42	40	+2	ENE	7	ag	6	42	38	0.01		
Cuxhaven ...	29.91	39	NW	2	c	29.75	-24	39	38	-2	NNE	3	c	*	43	38	0.08		
Berlin ...	29.90	40	NEW	1	0	29.73	-25	39	38	-1	SW	1	0	*	43	39	0.04		
Wiesbaden ...	*	*	*	*	*	29.65	-51	37	35	-3	E	1	S	*	45	36	-		
Munich ...	29.95	30	E	3	b	29.65	-51	28	28	-6	SE	2	0	*	37	27	-		
FRANCE & NETHERLANDS.																			
The Helder ...	29.89	44	W	1	0	29.70	-38	42	40	-2	NE	3	c	3	45	43	-		
Brussels ...	*	*	*	*	*	29.52	-63	37	35	-3	NE	7	0	*	44	36	-		
Cape Gris Nez...	29.88	41	E	4	c	29.55	-58	43	40	+2	ENE	8	0	6	45	39	-		
Paris ...	29.84	38	E	3	0	29.40	-74	37	36	+6	NE	3	r	*	43	?	0.32		
Brest ...	29.79	36	ENE	3	0	29.75	-25	42	39	+1	NNE	5	0	3	54	36	0.04		
Lorient ...	29.73	37	ENE	4	r	29.70	-28	44	41	+3	N	7	b	4	?	34	0.46		
Rochefort ...	29.68	49	SE	5	0	29.71	-29	43	41	+3	NW	7	0	3	50	36	0.47		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lyons ...	29.91	37	E	1	b	29.48	-66	51	48	+21	S	9	0	*	32	?	0.04		
Nice ...	30.01	49	E	1	b	29.48	-22	46	46	0	E	1	b	3	?	41	0.51		
Perpignan ...	29.84	52	W	0	c	29.68	-37	52	49	+16	W	0	c	*	56	?	-		
Barritz ...	29.70	64	S	7	b	29.79	-08	53	52	-2	NW	7	r	2	66	50	0.12		
SPAIN.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 14<sup>th</sup> November 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

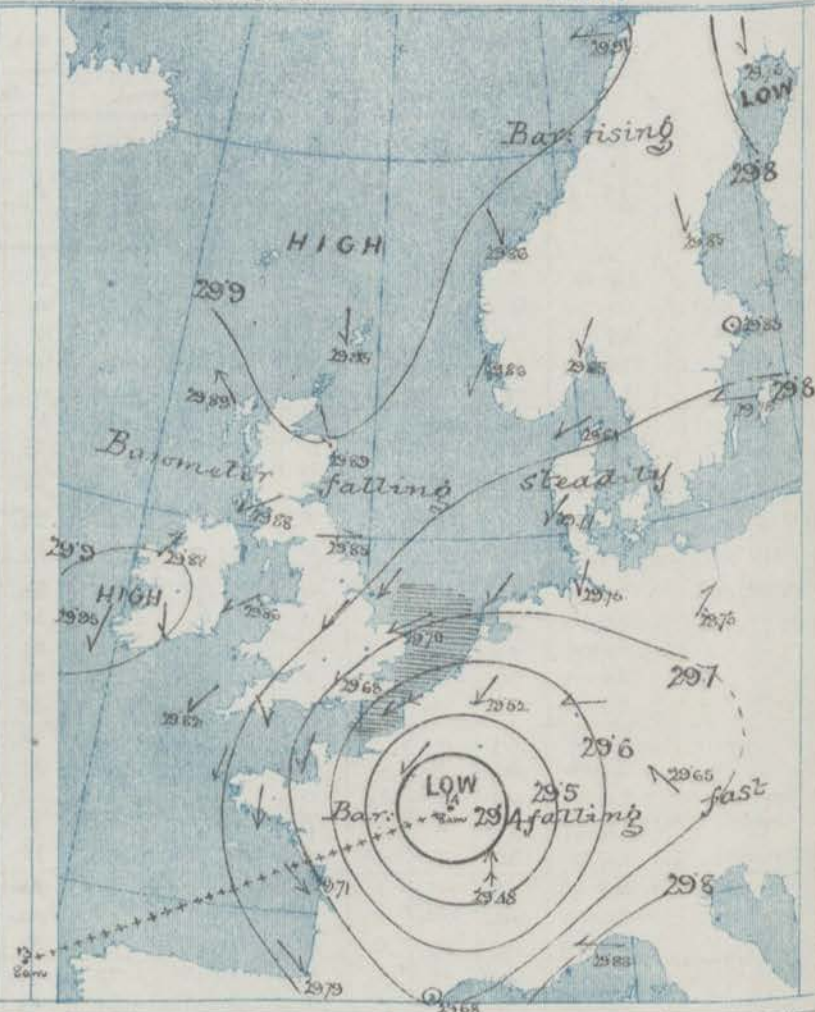
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces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

STATIONS.	MEAN READINGS.
Sumburgh Head.	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

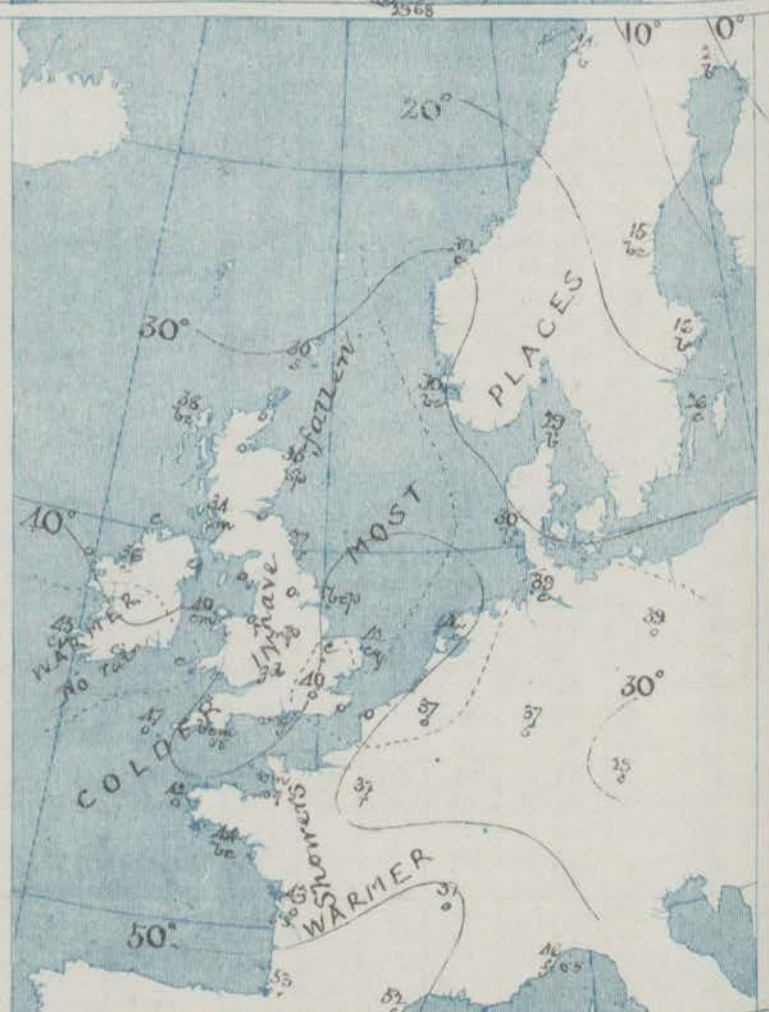
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghaden	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1868—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.3 ins. and upwards in a large area lying to the N.W. of our Islands and the W. of Norway, and also in a smaller area lying over Ireland.  
Lowest, 29.4 ins. and less, in a depression whose centre lies over the east of France.  
Gradient rather steep over France and the south-east of England. Barometer rising Scandinavia and south-east of France, falling elsewhere.

## TEMPERATURE

Highest, 53° at Rinnitz, 52° at Lerpapun, 51° at Lyons, 47° at Seilly, 46° at Kira and 45° at Dungeness.  
Lowest, 2° at Haparanda, 14° at Rode, 15° at Humbau, 16° at Stockholm, lowest in our Islands 30° at Lumbagh H. and 34° at Naam and Oudersaam.

## WIND

Light N. or N.E. over Scandinavia, Denmark, and the greater part of our Islands.  
Variable in the northern part of Ireland and England; strong N.E. in the south-east of England.  
Moderate gales from NW. or N. in the west of France; strong S. gale at Lyons.

## WEATHER

Fine in Scandinavia and Denmark and fair at several of our western stations.  
Cloudy elsewhere with snow at Lumbagh H. and Aberdeen, passing showers at some of our eastern stations and rain at Paris.  
Rain fell yesterday in most parts of our Islands and France.

## SEA

Rough at Yarmouth and C. of N. Bz. but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning a large but not deep depression has advanced from the north-west of Spain to the east of France.

This disturbance is likely to move away in an ENE. direction, but as the barometer is now falling somewhat decidedly on our extreme north-west coast, with a fresh SE. wind at Skomway, and an inclination for SW. breezes in the north of Ireland, it is probable that another depression will shortly appear off the west of Scotland.

The general appearance is therefore unsettled.

## FORECASTS

for the 24 hours ending at NOON on 15<sup>th</sup> November 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N. winds, light, to E. fresh; cloudy, some snow.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	Variable breezes; cloudy, some cold showers.
3	ENGLAND EAST	NE. winds, strong to moderate; fair generally, but some showers.
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	NE. to N. winds, moderate; dull, misty, some cold showers.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as No 2
7	ENGLAND N.W.	NE. to NW. winds, moderate, fair to dull, and some rain.
8	ENGLAND S.W.	-----D°-----D°-----D°-----
9	IRELAND NORTH	Variable breezes, finally W. dull, some rain.
10	IRELAND SOUTH	-----D°-----D°-----D°-----
WARNINGS		

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	29.90	35	31	rrain h	e	2	Holyhead ...	30.02	43	41	2	0	m	1
Stnburgh Head							Valencia ...							
Stornoway ...	30.07	40	40	NE 3	e	3	Scilly ...							
Aberdeen ...							Dungeness ...	29.98	44	41	SE 3	e	2	
Shields ...							London ...							*
Ardrossan ...							Yarmouth ...							
Malin Head ...	30.04	45	44	NE 1	e	1	Jersey ...	29.90	40	38	E 3	T	3	
Mullaghmore ...							Rochefort ...	29.87	47	44	SE 5	0	2	
Belmullet ...	30.05	45	43	E 1	0	*								

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

The reports for yesterday morning showed that pressure varied from 30.1 ins, and more in a band which extended across the central parts of the British Isles, the northeast of France, and western Germany, and from about the same value over Algeria, to about 29.7 ins over the Black Sea, 29.5 ins on the shores of the White Sea, and 29.7 ins in the North of Portugal. Over Central and southern Europe the barometer was rising, but elsewhere it was falling somewhat irregularly. E. winds were still blowing over the Channel, Bay of Biscay, and West of France, with dull and cold, raw weather, but over Scandinavia, the Baltic and North Sea, N. airs were felt very generally with finer weather, while in the South of Portugal the wind was S. and the weather overcast. Temperature was changing irregularly - in most places, it was falling; over the Spanish Peninsula, however it was rising decidedly, with the S. wind. The readings varied from 60 and more in Portugal, and over the southeastern parts of the Mediterranean to several degrees below the freezing point over Russia, the Baltic, Central France, and Central Ireland. The highest individual readings were 62° at Biskra (Algeria), and Bilbao; 61° at Oporto and Lisbon 60° at Coruna, and 59° at Malta, the lowest, 10° at Archangel and Kaperanda, 13° at Uleasberg and Helsingfors, 14° at Anapio, 15° at Helsingfors and Moscow 20° at Christiania, 23° at Stockholm, 27° at Parsonstown (Ireland), and at Lalmont 29° at Lemberg and 30° at Nancy and Lyons. Later in the day a well marked depression advanced northeastwards across the North of Spain to Central France, and the NE. wind freshened considerably in the Channel and southeast of England.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 6<sup>TH</sup> TO THE 12<sup>TH</sup> NOVEMBER 1887

The weather during this week was of a somewhat remarkable character. The small depression which passed up the English Channel on the night of Saturday (Nov. 5<sup>th</sup>) had scarcely passed out of our area, when pressure recovered quickly at our northern stations, and the low pressure area which lay over the West of Ireland, began to move southwards down our western coasts. By the evening of Sunday it had reached the mouth of the Channel, and NE winds prevailed all over the country and blew hard in the northwest and northeast. Between Monday and Thursday, this disturbance together with another, smaller, one, hovered over France and the Bay of Biscay (as will be seen on referring to the map in the Daily Weather Reports), the NE winds remaining with us throughout, but falling decidedly - first at our East, and later on at all our northwest and west stations. There were two features in the weather of this period, more striking than the rest. The first was the extreme mildness and dampness of the E. winds - the mean values for the week both of temperature and rainfall having been considerably above the average, not only at our own stations, but on the eastern shores of the North Sea also. The second was the movement of the depressions observed - that noticed during the earlier part of the week having recurved on reaching the neighbourhood of Havre, and after travelling in a westerly and southwesterly direction moved westwards outside our area of observation, over the Bay of Biscay. The other appeared (1) over the northeast of France on the evening of the 8<sup>th</sup>, and (2) over Germany on the morning of the 11<sup>th</sup>, these both filled up by the 12<sup>th</sup>, when the anticyclone in the North began to move southwards.

## 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 15<sup>th</sup> November

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 ..	29.79	6	Z	0	b	29.69	-0.1	14	14	+12	Z	0	0	*	?	1	-	
Hernösand ...	30.06	12	Z	0	b	30.05	+0.0	13	13	-2	Z	0	0	*	21	9	-	
Stockholm ...	29.93	21	N	2	b	30.12	+0.2	14	13	-2	N	2	0	*	25	?	-	
Wisby ...	29.80	25	NE	4	b	29.97	+0.1	25	23	-1	E	4	0	*	39	23	-	
Bodö ...	29.91	21	E	2	b	29.68	-0.2	34	32	+20	W	6	0	4	?	10	-	
Christiansund...	30.12	21	E	2	b	30.12	+0.0	23	?	-7	ESE	2	0	3	30	21	0.49	
Skudesnaes ...	29.99	30	ENE	1	b	30.20	+0.2	29	25	-1	E	2	0	2	36	?	-	
Christiania Fjord (Førder)	29.95	27	NNE	4	b	30.19	+0.2	22	19	-3	NNE	5	0	1	28	?	-	
Skagen (The Scaw)	29.92	29	NE	2	b	30.13	+0.2	25	24	-4	NE	3	0	2	30	23	-	
Fanö ...	29.89	26	NE	4	b	30.10	+0.2	24	24	-6	NNE	4	0	*	34	23	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.08	31	N	2	b	30.19	+0.1	33	33	+3	Z	0	0	0	34	28	0.01	
Stornoway ...	30.12	37	NE	6	bc	30.25	+0.1	33	33	+5	NE	2	0	3	41	29	0.10	
Wick ...	30.12	36	NE	3	0	30.26	+0.1	28	28	-9	NW	2	0	0	38	24	0.03	
Nairn ...	30.10	34	ENE	3	S	30.28	+0.1	29	28	-5	SE	1	0	1	38	26	0.10	
Aberdeen...	30.04	35	N	4	shp	30.26	+0.2	32	31	-3	NW	4	0	3	39	29	0.05	
Leith ...	30.01	36	NE	3	b	30.28	+0.2	31	29	-7	W	1	0	*	39	30	0.09	
Shields ...	29.91	42	NE	3	op	30.21	+0.3	34	33	-3	NW	2	0	3	42	32	0.49	
Spurn Head ...	29.73	42	NE	5	bc	30.16	+0.3	41	36	-2	N	4	0	5	44	36	0.04	
York ...	29.89	38	N	1	0	30.22	+0.3	30	?	-7	NNE	1	0	*	42	30	0.08	
Loughborough	29.85	38	NW	3	bc	30.20	+0.4	32	31	-6	NNE	1	0	*	45	31	-	
GERMANY.																		
Ardrossan ...	30.00	36	NE	4	bc	30.29	+0.1	28	27	-6	NE	1	0	0	42	27	-	
Malin Head ...	30.00	41	ENE	4	cap	30.29	+0.1	36	35	-6	SW	2	0	2	42	35	0.01	
Mullaghmore ...	29.95	41	E	5	0	30.31	+0.3	36	34	0	SE	2	0	2	44	34	-	
Belmullet ...	29.91	41	ESE	5	0	30.33	+0.3	35	34	-5	SSE	1	0	*	43	32	0.72	
Donaghadee ...	29.97	40	ENE	5	0	30.29	+0.2	39	35	0	ENE	5	0	1	42	37	0.01	
FRANCE & NETHERLANDS.																		
Barrow-in-Farress	29.92	38	NE	3	T	30.24	+0.4	33	31	-5	N	2	0	*	43	32	0.03	
Liverpool (Bidston)	29.89	40	NE	2	0	30.24	+0.4	32	31	-6	NNE	1	0	2	41	32	0.03	
Holyhead ...	29.88	42	Z	0	0	30.24	+0.3	39	37	-1	NE	3	0	2	44	38	0.10	
Parsonstown ...	29.90	40	Z	0	0	30.31	+0.4	29	?	-9	Z	0	0	*	43	27	-	
Valencia ...	29.85	44	NW	1	r m	30.26	+0.3	39	37	-6	NNE	3	0	2	51	39	0.15	
Roche's Point...	29.85	43	N	1	0	30.21	+0.2	38	35	-4	NNE	3	0	3	47	35	-	
Pembroke ...	29.83	43	ENE	2	0	30.18	+0.3	38	35	-4	ENE	3	0	2	44	35	-	
Scilly ...	29.80	45	N	4	op	30.06	+0.2	43	40	-4	ENE	6	0	4	43	41	0.07	
Prawle Point ...	29.81	39	NNE	3	0	30.08	+0.2	40	38	+5	NE	6	0	4	44	33	-	
Jersey ...	29.76	45	N	3	op m	30.03	+0.3	42	36	-1	E	4	0	3	45	43	0.13	
ITALY.																		
Hurst Castle ...	29.76	43	NNE	4	pm	30.10	+0.4	35	35	-3	NNE	3	0	1	43	33	-	
Dungeness ...	29.66	42	NE	5	p	30.07	+0.5	38	35	-7	SE	3	0	2	46	35	0.19	
London ...	29.78	40	N	2	b	30.12	+0.4	34	33	-6	NNE	2	0	*	45	34	0.06	
Oxford ...	29.87	35	NE	3	b	30.16	+0.4	31	30	-7	NNE	2	0	*	45	31	-	
Cambridge ...	29.80	38	N	1	b	30.16	+0.4	33	32	-7	N	1	0	*	47	29	-	
SPAIN.																		
Yarmouth ...	29.74	42	NE	6	cap m	30.10	+0.4	37	36	-5	ENE	6	0	5	44	35	0.17	
Cuxhaven ...	29.73	34	NE	6	0	29.98	+0.2	31	30	-8	NNE	6	0	*	?	29	-	
Berlin ...	29.86	37	N	4	0	29.75	+0.2	35	32	-4	N	4	0	*	41	34	0.04	
Wiesbaden ...	*	*	*	*	*	29.86	+0.2	32	?	-5	N	?	0	*	39	32	0.79	
Munich ...	29.50	36	SE	4	0	29.72	+0.7	33	33	+5	NW	3	0	*	36	28	0.12	
PORTUGAL.																		
The Helder ...	29.77	40	NE	4	b	30.08	+0.3	37	33	-5	NE	3	0	3	43	37	-	
Brussels ...	*	*	*	*	*	30.09	+0.5	29	27	-8	ENE	1	0	*	41	26	-	
Cape Gris Nez...	29.67	41	E	7	T	30.01	+0.4	33	31	-10	ESE	5	0	2	45	32	0.04	
Paris ...	29.62	34	NNE	3	T	29.99	+0.3	32	30	-5	NE	4	0	*	37	31	0.51	
Brest ...	29.80	46	NNE	5	0	29.93	+0.3	37	35	-5	ENE	5	0	2	53	34	-	
Lorient ...	29.80	45	NNE	4	0	29.95	+0.2	41	39	-3	E	5	0	2	48	39	-	
Rochefort ...	29.84	47	NNE	7	bc	29.91	+0.2	40	39	-3	E	5	0	2	48	36	-	
Belfort ...	29.54	38	NW	3	0	29.85	+0.3	35	34	-2	NW	1	0	*	47	31	0.47	
Lyons ...	29.65	46	S	5	0	29.84	+0.3	37	36	-14	ENE	1	0	*	58	37	0.04	
Nice ...	29.65	49	NW	1	T	29.57	-0.1	44	42	-2	ENE	1	0	4	?	41	0.75	
Perpignan ...	29.72	52	NW	5	0	29.78	+0.1	43	40	-9	NW	1	0	*	61	41	-	
Biarritz ...	29.88	52	NW	4	0	29.75	-0.4	42	41	-11	E	4	0	5	54	41	0.04	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.72	59	NE	4	T	29.63	-0.2	52	51	-8	N	5	0	1	63	52	0.32	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Tuesday, 15<sup>th</sup> November, 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

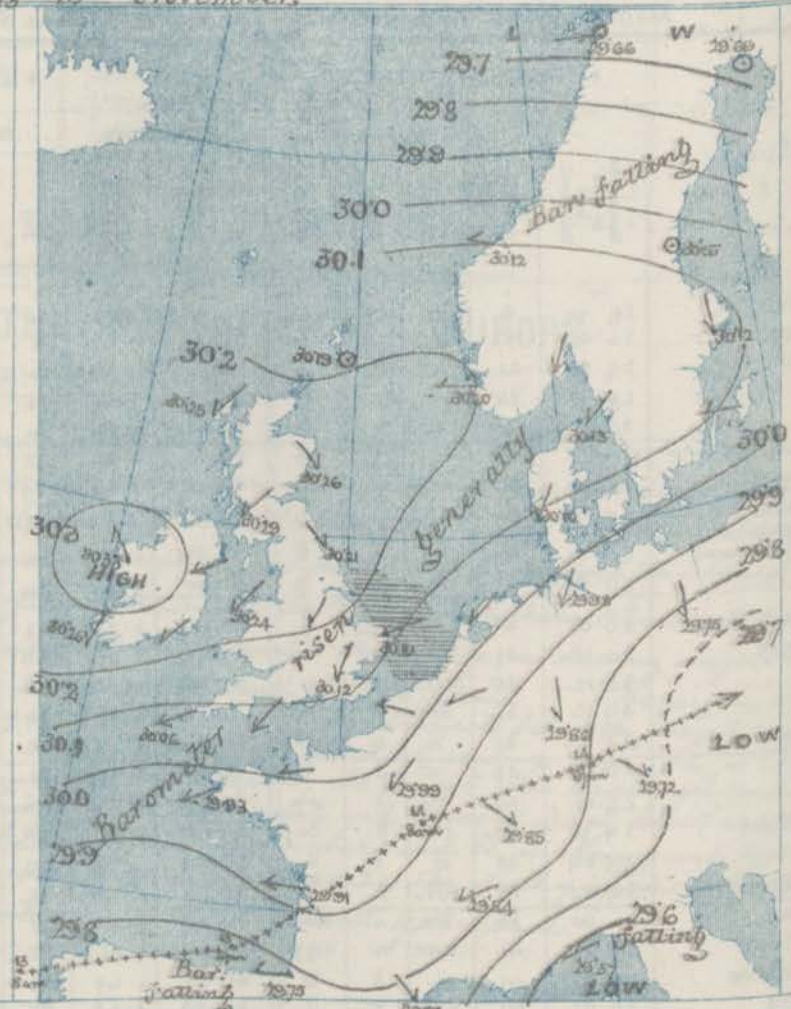
▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
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Yarmouth	29.865



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

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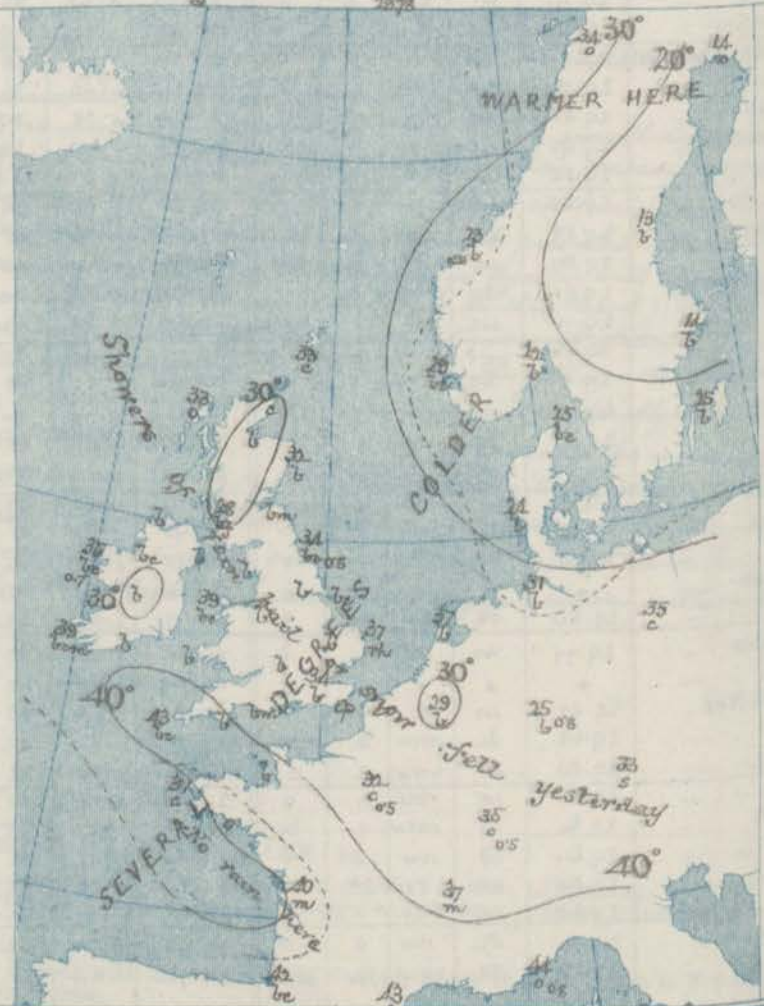
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
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Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
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Leith	48.2	36.0	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Selly	52.0	46.3	49.5	47.4	3.78
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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: and upwards, over Ireland; 30.2 in: and upwards over all but the southern and southeastern parts of our Islands. Lowest, 29.6 in: in depressions lying respectively over Spain and the Gulf of Genoa; 29.7 in: and less in the extreme north of Scandinavia. Gradients, slight over our Islands, moderate over France and Germany and the north of Scandinavia. Barometer rising except in extreme N.
TEMPERATURE	Highest, 52° at Lisbon, 44° at Aix, 43° at Seilly and Perpignan, and 42° at Jersey and Biarritz. Lowest, 13° at Helsingfors, 14° at Haparanda and Stockholm, 22° at Tander, 23° at Christiansund, and 24° at Jönköping.
WIND	Light or moderate from NW. in the east of Scotland and also in South Germany. Strong from W. at Rode; calm in the north of Sweden. E or NE elsewhere; strong in force at the mouth of the English Channel.
WEATHER	Fine in Scandinavia, Denmark, the Netherlands and the greater parts of our Islands, but showery in the extreme southeast of England. Cloudy or misty in France and South Germany, with snow at Munich. [Rain hail or snow fell generally yesterday the largest amount being 0.8 in: at Wiesbaden and Aix, and 0.7 in: at Bournemouth.]
SEA	Rather rough off the east of England, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over France yesterday morning is now passing away over Central Europe, while the smaller disturbance which subsequently appeared over Ireland has completely dispersed.

The anticyclone over our Islands is still moving southwards, and the barometric rise is therefore slackening in the extreme north, while the wind there is inclined to back. Depressions will probably appear shortly off the north of Scotland, but over the southern part of the United Kingdom no change of importance is likely at present.

## FORECASTS

for the 24 hours ending at NOON on 16<sup>th</sup> November. 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	W <sup>2</sup> winds, moderate; dull, probably some snow.	6 { SCOTLAND WEST	NE <sup>2</sup> winds, light; fine generally.
1 { SCOTLAND EAST	NW <sup>2</sup> winds, light or moderate, fine generally.	7 { ENGLAND N. W.	----- D° ----- D° ----- D° -----
2 { ENGLAND N. E.	----- D° ----- D° ----- D° -----	8 { ENGLAND S. W.	NE <sup>2</sup> winds, strong to moderate; fine generally.
3 { ENGLAND EAST	Same as No 5	9 { IRELAND NORTH	Variable breezes, finally W <sup>2</sup> ; fine to cloudy.
4 { MIDLAND COUNTIES	Same as No 5	10 { IRELAND SOUTH	Same as No 6.
5 { ENGLAND SOUTH	NE <sup>2</sup> winds, light or moderate; fair generally, but snow or hail showers locally. Frosty and foggy at night.	WARNINGS	NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.90	35	29	N 2	6	2	Holyhead ...	29.83	43	40	E 1	C	1
Sumburgh Head ...	30.01	33	32	N 2	6	2	Valencia ...	29.85	50	45	NW 2	opv	2
Stornoway ...	30.02	41	39	SE 6	C	4	Scilly ...	29.84	46	43	NW 5	op	4
Aberdeen ...	29.45	37	35	N 4	6	2	Dungeness ...	29.59	45	42	ENE 5	o	4
Shields ...	29.84	40	38	NE 2	T	3	London ...	29.69	45	39	NNE 3	60	*
Ardrossan ...	29.91	37	35	ENE 3	T	2	Yarmouth ...	29.68	43	40	NE 6	cyp	5
Malin Head ...	29.84	40	40	SE 4	O	3	Jersey ...	29.73	45	42	NNE 3	o	3
Mullaghmore ...	29.82	43	41	ESE 3	op	1	Rocheport ...	29.80	47	44	NW 7	C	3
Belmullet ...	29.79	41	41	ESE 3	T	*							

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

Yesterday morning's reports showed that pressure was then varying from 30.0 in. and more over southeastern Europe, and the northern part of Africa, and from a little lower than that value over Ireland and off the north of Scotland to 29.4 in. and less, in a depression, the centre of which had advanced over Central France from the Atlantic. Calms and light breezes (chiefly N<sup>3</sup>) prevailed over northern Europe with sleet shower in places, while NE winds were felt over the southern parts of the British Isles, with dull weather, and SW to NW<sup>3</sup> gales in France, where much rain fell. Temperature had risen over Southern Europe, <sup>but</sup> fallen in the northwest and north, and ranged from 60° and more over the western parts of the Mediterranean to somewhat below 40° over the greater part of the British Isles and to much below the freezing point over the northern and eastern half of the Continent. The highest individual readings were 62° at San Fernando, 61° at Algiers and Barcelona, 60° at Lisbon, 59° at Cagliari and 58° at Malta; at Scilly the temperature was 47° and at Valencia 43°. The lowest readings were 2° at Haparanda and Archangel, 4° at Uleaborg, 9° at Helsingfors, 12° at Kuopio, Moscow and Kiev, 14° at Bodo, 28° at Momei and Munich, and 30° at Sumburgh H<sup>3</sup> and Faro.

Later in the day the depression over France began to fill up, and a sudden recovery of pressure ensued over the British Isles, with quiet but cold weather, and frost in several places. In Scandinavia, however, the barometer began to rise

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 16<sup>th</sup> November

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 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda	29.49	26	Z	0	0	29.44	-.05	26	26	+ 12	Z	0	S	*		27	5	-	
Hernösand	29.94	24	WNW	4	0	29.74	-.20	30	26	+ 17	Z	0	0	*		27	9	-	
Stockholm	30.17	17	Z	0	r	30.09	-.08	21	18	+ 7	WSW	2	b	*		23	12	-	
Wisby	30.12	25	E	4	b	30.15	+ .03	30	27	+ 5	NNW	6	b	*		29	21	0.24	
Bodö	29.49	35	WSW	6	0	29.40	-.09	36	33	+ 3	W	2	0	1		36	30	0.12	
Christiansund	29.90	33	SW	8	0	29.69	-.21	37	34	+ 14	WSW	6	0	4		37	32	-	
Skudesnaes	30.24	33	SSE	6	0	29.97	-.27	40	37	+ 11	S	8	0	5		37	28	-	
Christiania Fjord (Færder)	30.23	38	NW	2	b	30.26	-.03	33	30	+ 11	WSW	8	c	3		39	23	-	
Skagen (The Scaw)	30.24	22	Z	0	b	30.18	+ .06	26	24	+ 1	WSW	4	b	3		27	19	-	
Fanö	30.30	31	N	1	b	30.32	+ .02	21	21	- 3	S	1	b	*		30	18	-	
BRITISH ISLANDS.																			
Sumburgh Head	30.10	35	Z	0	b	29.63	-.47	48	48	+ 15	WNW	3	r	3		48	33	0.48	
Stornoway	30.15	39	NW	3	0	29.91	-.24	48	47	+ 15	W	4	0	4		48	32	0.48	
Wick	30.17	35	SW	2	b	29.87	-.30	47	47	+ 19	SW	2	0	0		48	26	0.15	
Nairn	30.21	33	W	2	b	29.95	-.26	44	42	+ 15	SW	3	0	2		44	23	-	
Aberdeen	30.26	30	WNW	1	b	29.98	-.28	40	38	+ 8	WSW	4	r	1		40	27	0.12	
Leith	30.28	33	W	1	b	30.16	-.12	37	35	+ 6	W	3	0	*		39	30	-	
Shields	30.29	34	NW	1	b	30.22	+ .01	32	31	- 2	SW	2	cm	2		39	27	-	
Spurn Head	30.26	27	NW	2	b	30.33	+ .07	35	33	- 6	W	3	cm	3		42	33	0.03	
York	30.31	33	NNW	1	b	30.33	+ .02	27	27	- 3	N	1	f	*		39	25	-	
Loughborough	30.30	31	N	1	b	30.29	+ .01	20	20	- 12	ESE	1	f	*		44	19	-	
Ardrossan	30.31	33	Z	0	b	30.20	-.10	44	40	+ 16	SW	5	or	4		44	28	0.02	
Malin Head	30.30	39	SW	3	b	30.18	-.12	42	41	+ 6	SW	4	c	3		42	35	0.01	
Mullaghmore	30.33	37	S	2	cm	30.26	-.07	40	37	+ 4	SSW	3	c	2		45	33	-	
Belmullet	30.34	41	S	2	0	30.27	-.07	44	40	+ 4	SW	2	c	*		44	34	-	
Donaghadee	30.33	32	NE	1	b	30.28	-.05	33	32	- 6	W	4	c	2		42	29	-	
Barrow-in-Furness	30.30	35	NE	2	b	30.29	+ .01	32	31	- 1	NE	1	f	*		42	30	-	
Liverpool (Bidston)	30.32	36	NNE	1	b	30.34	+ .02	33	30	+ 1	S	1	c	2		39	29	-	
Holyhead	30.31	37	Z	0	b	30.31	+ .00	41	38	+ 2	W	1	c	1		43	34	-	
Parsonstown	30.34	32	Z	0	b	30.34	+ .00	22	23	- 5	Z	0	b	*		40	22	-	
Valencia	30.33	39	NNE	1	b	30.34	+ .01	40	37	+ 1	ESE	2	b	2		46	35	-	
Roche's Point	30.31	37	NE	1	b	30.34	+ .03	33	32	- 5	NNE	2	b	3		45	32	-	
Pembroke	30.29	40	ENE	3	b	30.37	+ .08	34	33	- 4	ENE	2	m	1		44	33	-	
Scilly	30.21	44	ENE	5	b	30.29	+ .02	44	40	+ 1	E	5	c	4		46	39	-	
Prawle Point	30.24	39	NE	5	b	30.36	+ .12	36	34	- 4	NE	3	b	2		45	33	-	
Jersey	30.20	43	ENE	4	0	30.34	+ .14	37	32	- 5	E	4	bm	4		48	34	-	
Hurst Castle	30.24	37	NE	4	bm	30.37	+ .13	31	31	- 4	ENE	2	bm	1		43	28	-	
Dungeness	30.23	32	NNE	3	b	30.35	+ .12	30	30	- 8	N	3	c	1		40	29	-	
London	30.24	31	N	1	f	30.39	+ .15	25	25	- 9	Z	0	f	*		39	23	-	
Oxford	30.33	30	NE	1	b	30.42	+ .09	25	25	- 6	Z	0	f	*		42	24	-	
Cambridge	30.29	32	N	1	b	30.38	+ .09	24	23	- 9	W	1	b	*		42	22	-	
Yarmouth	30.24	38	NE	3	b	30.34	+ .10	30	29	- 7	NNW	2	bm	4		39	28	0.03	
Cuxhaven	30.17	30	NNE	4	b	30.36	+ .19	26	25	- 5	SW	1	f	*		31	25	-	
Berlin	30.06	31	WNW	4	b	30.31	+ .25	24	23	- 11	NW	2	b	*		37	25	-	
Wiesbaden	*	*	*	*	*	30.38	+ .32	22	22	- 10	NE	1	b	*		37	21	-	
Munich	30.00	29	W	1	s	30.23	+ .23	24	23	- 9	N	4	0	*		34	21	0.28	
FRANCE & NETHERLANDS.																			
The Helder	30.27	34	ENE	1	b	30.37	+ .10	30	28	- 7	S	1	c	1		37	28	-	
Brussels	*	*	*	*	*	30.42	+ .05	25	24	- 4	ENE	1	b	*		36	24	-	
Cape Gris Nez	30.23	34	E	3	s	30.32	+ .09	31	30	- 2	SE	4	c	2		39	30	-	
Paris	30.24	31	NE	4	b	30.32	+ .08	22	21	- 10	NE	3	b	*		38	22	-	
Brest	30.15	39	ENE	3	0	30.26	+ .11	29	28	- 8	ESE	4	b	3		46	28	-	
Lorient	30.10	41	NE	7	b	30.21	+ .11	30	27	- 11	E	7	b	4		45	28	-	
Rochefort	30.01	38	ENE	8	0	30.10	+ .09	30	28	- 10	ENE	9	c	4		48	27	-	
Belfort	30.01	33	NE	4	0	30.16	+ .15	28	28	- 7	NE	4	c	*		40	25	-	
Lyons	29.98	35	N	5	0	30.13	+ .24	27	25	- 10	ENE	5	0	*		38	26	-	
Nice	29.66	48	E	1	c	29.87	+ .21	48	45	+ 4	E	1	r	3		54	?	-	
Perpignan	29.78	47	Z	0	0	29.91	+ .13	42	41	- 1	Z	0	0	*		53	41	-	
Biarritz	29.80	42	E	4	r	29.85	+ .05	37	36	- 5	E	4	r	1		55	36	0.55	
Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	
Liebon	29.39	52	Z	0	r	29.42	+ .03	52	51	- 1	S	3	c	2		57	50	0.43	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 16<sup>TH</sup> NOVEMBER, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

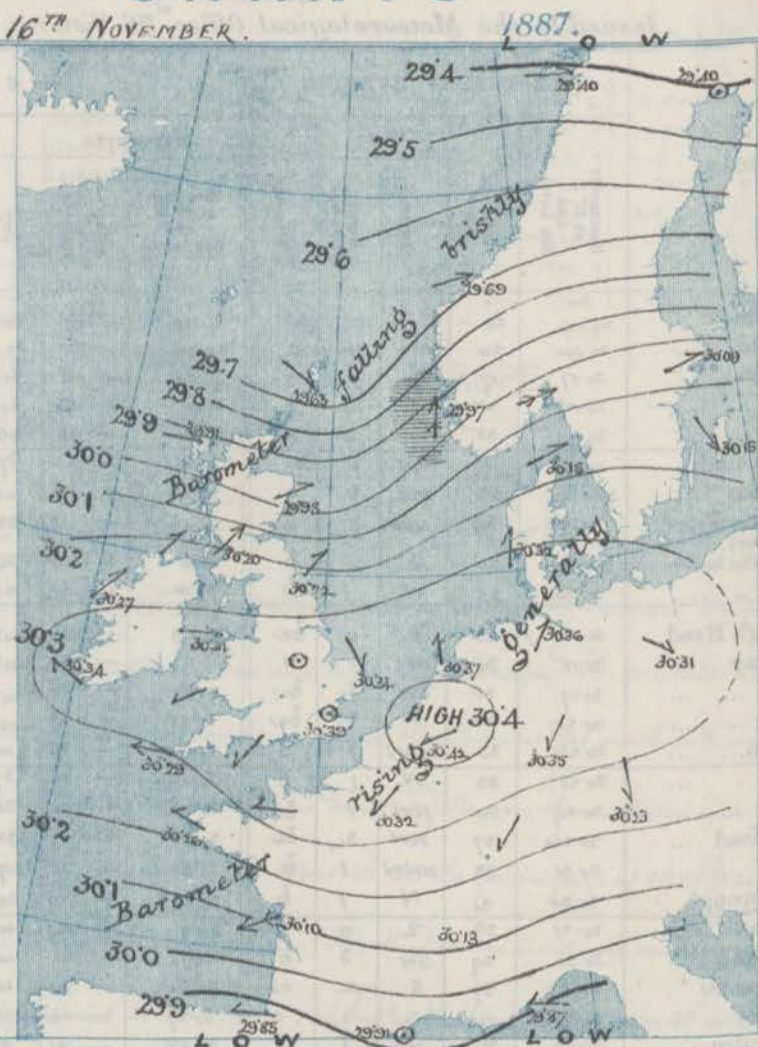
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10, \* — forces 8 to 10,  
 — forces 5 to 7, —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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	45.0	36.0	41.0	39.4	4.24
Stornoway	45.0	36.2	40.8	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.0	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	45.0	41.9	3.56
LONDON	40.0	37.3	41.3	39.0	2.14
Oxford	47.0	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	40.0	38.8	2.02
Yarmouth	47.4	38.5	42.6	41.6	3.15

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 30.42 ins. at Brussels; high 30.3 ins. and upwards over Ireland, England, the Netherlands, and the northern parts of France and Germany.  
Lowest 29.40 ins. at Bodö and Haparanda; 29.42 ins. at Lisbon.  
Gradients rather steep over Scandinavia and our northern coasts, Barometer falling quickly in extreme North but rising South.

## TEMPERATURE

Highest 52° at Lisbon, 48° at Lumburgh Head, Hornøysund and Wick, 46° at Hain, Ardrossan, Belmullet and Scilly.  
Lowest 20° at Loughborough, 21° at Stockholm and Faro, 22° at Paris and Wiesbaden and 24° at Parsonstown, Cambridge and Munich.  
A rapid rise is taking place over the northern parts of our Islands.

## WIND

Moderate from S.W. or W. on our northern coasts; strong to a gale from S.W. in the South of Norway.  
Light and variable over Central England and the Netherlands.  
E. or N.E. at our extreme southern and French stations, light or moderate in force generally but strong to a gale at Rochefort.

## WEATHER

Dull in Scandinavia and the North of our Islands, as well as in the South of France, with rain at Lumburgh Head, Aberdeen, Biscarra and Nice.  
Fine in most other localities, but thick fogs reported over the inland parts of England.  
Since yesterday morning 0.5 in. of rain has fallen at Lumburgh Head and Stormøysund.

## SEA

Rather rough at Skudsmass but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclone in the South is inclined to move south-eastwards, and the S.W. breezes and mild unsettled weather now prevailing over our north districts are likely to extend gradually over the Kingdom.

The distribution of pressure is becoming favourable for the advance of depressions towards the Scotch coasts, but at present there is no indication of any deep disturbance.

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> November 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>W</sup> winds, freshening; cloudy generally, with some rain.
1	SCOTLAND EAST	.....
2	ENGLAND N.E.	N <sup>W</sup> winds, moderate; fair and cold at first, but afterwards less settled and milder.
3	ENGLAND EAST	Same as N <sup>o</sup> 5.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 5.
5	ENGLAND SOUTH	Variable air and cold foggy weather followed by light W <sup>W</sup> breeze, fair weather, and rising temperature.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>W</sup> and W <sup>W</sup> winds, fresh or strong; cloudy, some rain.
7	ENGLAND N.W.	Same as N <sup>o</sup> 2.
8	ENGLAND S.W.	E <sup>W</sup> to SE <sup>W</sup> winds, moderate; fine generally.
9	IRELAND NORTH	Same as N <sup>o</sup> 6.
10	IRELAND SOUTH	SE <sup>W</sup> to S <sup>W</sup> winds, moderate; fair to cloudy and unsettled.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.24	22	28	E 2	c	2	Holyhead ...	30.28	41	38	NE 2	b	2
Sumburgh Head ...	30.16	34	34	Z 0	0	0	Valencia ...	30.31	46	41	NNE 1	bom	1
Stormoway ...	30.20	38	37	W 2	0	3	Scilly ...	30.16	45	40	NE 6	b	5
Aberdeen ...	30.27	38	36	NW 2	b	2	Dungeness ...	30.7	39	35	ESE 4	c	3
Shields ...	30.27	38	36	NW 2	b	3	London ...	30.21	38	36	E 3	c	*
Ardrossan ...	30.30	40	35	Z 0	b	0	Yarmouth ...	30.18	29	36	NE 4	c	4
Malin Head ...	30.31	40	37	WSW 2	c	1	Jersey ...	30.13	45	41	NE 3	b	3
Mullaghmore ...	30.33	42	37	Z 0	bom	1	Rocheport ...	29.96	46	42	E 7	b	2
Belmullet ...	30.34	44	29	SSW 2	c	*							

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

The reports for yesterday morning showed that while anticyclonic conditions were becoming prevalent over the British Isles, the distribution of pressure over the Continent was becoming complex, though the gradients were not steep. Readings at 8 am varied from between 30.1 ins. and 30.3 ins. over the United Kingdom, and from 30.1 ins. and more over Circassia, the Black Sea and the southern half of the Mediterranean, to about 29.5 ins. over Portugal, the Gulf of Genoa, Poland and the shores of the White Sea. In each of these regions lay a distinct depression, and the three first lay in a "trough" which separated the British Anticyclonic system from the high pressure area in the extreme south and southeast. Thus while W. 4 (NW to SW) breezes had set in over northern Europe, accompanied by fine but very cold weather, N. 4 (NW to NE) winds and rather cold weather and decreasing showers were reported over the British Isles and some parts of France, N. 4 and NW 4 breezes in the south of France, but S. 4 winds and fine weather over Spain and Algeria. Temperature was rising over South and southeastern Europe, falling elsewhere, the area of frost embracing nearly the whole of the northwest, northern and eastern countries, including the northern parts of Great Britain and Central Ireland, while the highest readings were still located over the southern half of the Mediterranean. The highest individual values were 70° at Algiers & 60° at Lixia [these for Malta and the Italian stations, have been omitted from the Bulletin International, Paris]. The lowest were zero (0) Fahr. at Archangel, 2° at Helsingfors, 13° at Harnösand, 14° at Haparanda and St. Petersburg, 16° at Hangö, 20° at Moscow, 21° at Munich, 24° at Lüne, 28° at Münster and at Wick, 29° at Naiv, Parsonstown and Havre and 30° at Hamburg. Later in the day the anticyclonic tendency over the British Isles increased decidedly and a sharp frost set in over Ireland and England. Over northern Europe however, a new depression appeared causing SW winds and rising temperature at the northern stations, while a depression passed eastwards over the southern parts of Spain in its way towards the Mediterranean.

### 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 17<sup>th</sup> NOVEMBER 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. Reading at 32° F. and Sea Level.	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 ..	29.55	16	Z	0	b	29.61	+ .21	9	9	- 17	Z	0	0	*	27	?	—		
Hernösand ...	29.69	25	Z	0	b	29.62	- .12	25	23	- 5	Z	0	bc	*	37	23	—		
Stockholm ...	29.93	31	WNW	2	0	29.88	- .21	30	29	+ 9	SSW	2	0	*	32	16	—		
Wisby ...	30.07	33	W	6	0	29.95	- .10	38	35	+ 8	WSW	6	0	*	41	23	—		
Bodö ...	29.07	23	ESE	2	c	29.27	- .13	34	33	- 2	SE	2	r	1	34	30	—		
Christiansund...	29.57	44	S	2	0	29.57	- .12	43	42	+ 6	SW	6	c	5	43	36	0.04		
Skudesnaes ...	29.74	46	WNW	2	0	29.84	- .13	47	46	+ 7	WSW	2	r	4	?	41	—		
Christiania Fjord (Fæder)	29.30	40	SW	8	0	29.77	- .29	40	39	+ 7	WSW	3	c	3	41	27	—		
Skagen (The Scaw)	29.78	36	SW	5	0	29.83	- .35	43	43	+ 17	WNW	3	0	3	43	25	0.12		
Fanö ...	30.06	40	SW	6	r	30.05	- .27	43	43	+ 22	WSW	4	r	*	43	21	0.51		
BRITISH ISLANDS.																			
Sumburgh Head	29.72	47	WNW	4	0	29.61	- .02	46	46	- 2	WSW	4	r	4	48	44	0.15		
Stornoway ...	29.84	49	W	5	0	29.64	- .27	47	47	- 1	W	4	0	4	49	45	0.25		
Wick ...	29.86	49	SW	2	bc	29.68	- .19	45	44	- 2	SW	3	0	1	49	43	0.03		
Nairn ...	29.91	48	W	3	c	29.74	- .21	45	41	+ 1	W	2	c	1	51	40	—		
Aberdeen...	29.98	43	SW	3	c	29.87	- .17	41	40	+ 1	SW	3	0	1	44	38	0.01		
Leith ...	30.09	39	W	3	c	29.97	- .24	43	40	+ 6	WSW	3	bc	*	43	37	—		
Shields ...	30.15	41	WSW	3	0	30.00	- .22	38	36	+ 6	SSW	3	bc	2	41	31	—		
Spurn Head ...	30.23	37	SW	4	b	30.11	- .22	35	32	0	SSW	4	bc	3	40	32	—		
York ...	30.23	35	SW	1	b	30.10	- .23	29	29	+ 2	SSE	1	b	*	38	27	—		
Loughborough	30.31	31	E	1	b	30.16	- .23	24	24	+ 4	ESE	1	bc	*	38	20	—		
Ardrossan ...	30.12	45	SW	5	c	29.92	- .28	45	42	+ 1	SW	7	0	6	46	42	—		
Malin Head ...	30.10	42	SSW	4	b	29.87	- .37	43	43	+ 1	SW	4	omg	3	45	40	0.02		
Mullaghmore ...	30.15	43	SSW	5	0	29.88	- .38	42	40	+ 2	SW	6	ogp	5	45	39	0.03		
Belmullet ...	30.13	46	WSW	5	0	29.86	- .41	46	46	+ 2	SW	6	0	*	48	44	0.10		
Donaghadee ...	30.19	33	W	2	b	29.98	- .30	37	36	+ 4	W	2	bc	0	40	32	—		
Barrow-in-Furness	30.22	43	WNW	3	b	30.04	- .25	42	39	+ 10	SSW	4	bc	*	45	31	—		
Liverpool (Bidston)	30.26	37	SW	2	b	30.08	- .26	31	28	- 2	SSE	2	b	3	40	29	—		
Holyhead ...	30.25	44	WSW	3	c	30.05	- .26	43	40	+ 2	SSW	3	bc	2	46	41	—		
Parsonstown ...	30.24	37	Z	0	c	30.00	- .34	35	32	+ 11	S	1	c	*	43	23	—		
Valencia ...	30.24	46	S	3	c	29.98	- .36	47	42	+ 7	S	3	bc	3	48	40	—		
Roche's Point...	30.16	44	WNW	2	b	30.02	- .32	36	34	+ 3	N	2	cm	3	46	33	—		
Pembroke ...	30.28	41	SSE	2	b	30.06	- .21	36	35	+ 2	E	3	nr	2	43	33	—		
Scilly ...	30.24	44	E	4	c	29.97	- .21	45	41	+ 1	E	5	c	4	47	43	—		
Prawle Point ...	30.31	41	ENE	3	bc	30.01	- .35	42	37	+ 6	E	6	b	4	43	34	—		
Jersey ...	30.28	39	ENE	3	b	30.01	- .33	36	32	- 1	E	5	bc	4	41	31	—		
Hurst Castle ...	30.32	37	E	2	b	30.09	- .28	36	35	+ 5	E	3	b	1	41	25	—		
Dungeness ...	30.31	36	NNW	1	c	30.12	- .23	35	30	+ 5	SE	4	b	2	45	30	—		
London ...	30.34	27	Z	0	f	30.16	- .23	25	25	0	Z	0	f	*	34	23	—		
Oxford ...	30.35	24	Z	0	f	30.15	- .27	19	19	- 6	NE	1	df	*	29	19	—		
Cambridge ...	30.33	28	Z	0	b	30.15	- .23	23	22	- 1	Z	0	b	*	39	21	—		
Yarmouth ...	30.30	32	WNW	2	b	30.17	- .17	30	29	0	WNW	1	bc	3	37	27	—		
Cuxhaven ...	30.37	29	SW	3	0	30.23	- .13	31	30	+ 5	SW	4	0	*	31	29	—		
Berlin ...	30.39	28	WNW	1	b	30.37	+ .06	24	23	0	SSW	2	bc	*	32	23	—		
Wiesbaden ...	*	*	*	*	*	30.29	- .09	25	23	+ 3	NE	3	b	*	30	19	—		
Munich ...	? 30.28	15	E	2	m	30.25	+ .02	13	12	- 11	SE	4	b	*	28	10	—		
FRANCE & NETHERLANDS.																			
The Helder ...	30.30	30	S	3	b	30.23	- .14	27	26	- 3	S	1	b	1	26	27	—		
Brussels ...	*	*	*	*	*	30.20	- .22	24	23	- 1	E	1	b	*	32	23	—		
Cape Gris Nez...	30.30	24	S	3	bc	30.11	- .21	25	25	- 6	ESE	4	b	1	37	?	—		
Paris ...	30.29	27	NE	3	b	30.10	- .22	18	18	- 4	NE	3	b	*	30	18	—		
Brest ...	30.19	35	ESE	5	b	29.86	- .40	27	26	- 2	NE	5	c	3	32	27	—		
Lorient ...	30.19	37	E	8	b	29.87	- .34	30	29	0	E	7	0	4	41	27	—		
Rockfort ...	30.04	36	E	9	c	29.87	- .23	33	33	+ 3	E	8	0	3	41	28	—		
Belfort ...	? 30.15	30	NE	4	b	? 30.07	- .09	24	22	- 4	NE	4	b	*	32	19	—		
Lyons ...	30.15	31	W	3	0	30.09	- .04	25	24	- 2	N	1	bc	*	32	24	—		
Nice ...	29.99	46	E	3	0	30.03	+ .16	46	44	- 2	SSW	1	0	6	48	43	0.39		
Perpignan ...	29.96	45	ENE	3	r	29.95	+ .04	47	47	+ 5	NE	1	r	*	51	43	0.51		
Biarritz ...	29.87	43	E	5	r	29.70	- .15	44	42	+ 7	ESE	7	0	2	?	?	0.20		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.45	53	ESE	4	0	29.57	+ .09	53	52	+ 1	E	4	c	2	61	51	0.16		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday 17<sup>th</sup> November

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.

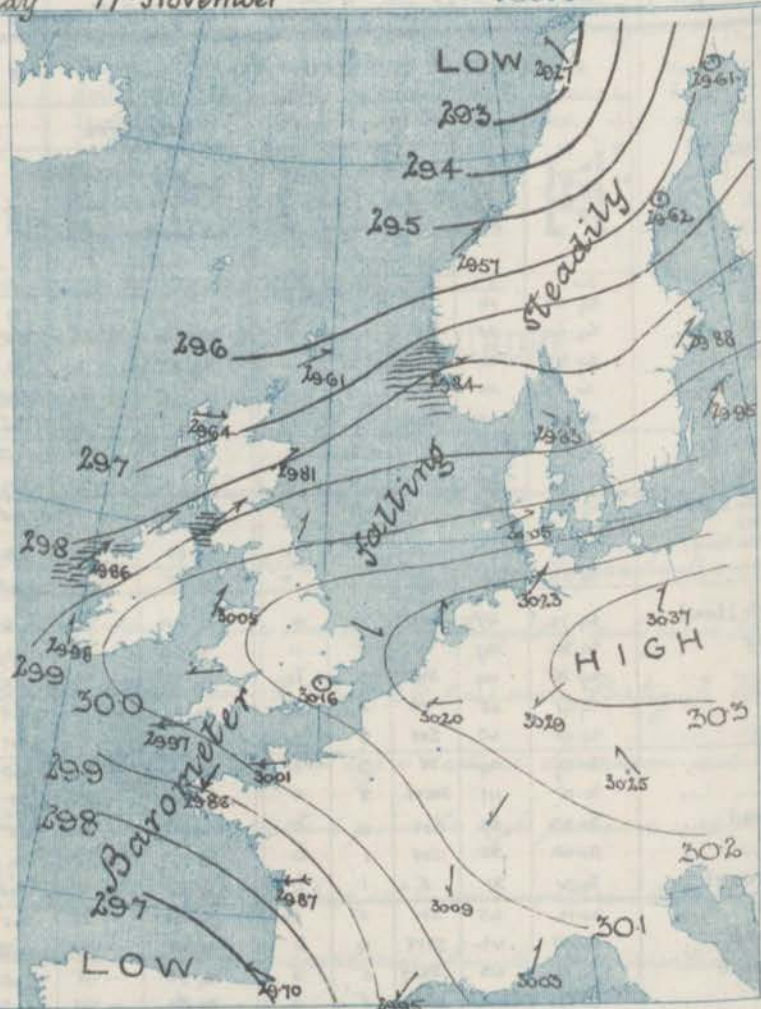
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.802
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Silly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.866





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.3 ins. and upwards in an anticyclone, the western portion of which is lying over North Germany.  
Lowest 29.3 ins. and less in a depression lying near Bodø; 29.6 ins. and less in another disturbance over Spain.  
Tends to moderate for S. & W. winds over the Bay of Biscay and the mouth of the Channel; rather steep for S.W. winds over our North and northwest coasts.

## TEMPERATURE

Highest 53° at Lisbon, 47° at St. Malo, Talencia and Perpignan, 46° at Nice, and 44° at Wick, Kilm. Ardrossan, and S. W. Ireland.  
Lowest 49° at Haparanda, 13° at Munich, 18° at Paris, 19° at Oxford and 23° at Cambridge.  
Hard frost occurred over England last night, but in London the reading of the thermometer on the grass (35°) was two degrees higher than the minimum in the screen.

## WIND

S.W. over the northern half of our Islands, and also on the eastern shores of the North Sea; strong on our extreme northwest coasts.  
Light and variable over Central England and also over the Netherlands.  
Fresh or strong from E. over the Channel and Bay of Biscay.

## WEATHER

Overcast in Denmark the North of our Islands, the South of Norway and the West of France, with rain at Lumburg Head, Skudsmoer and Fane.  
Fine in most other localities, but still foggy in London and at Oxford.  
Since yesterday morning rain has fallen at all our extreme northern and northwestern stations.

## SEA

Rough at Ardrossan and rather so at Mullaghmore, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone's band noticed over our southern districts yesterday is moving away in an easterly direction and the barometer is falling generally.

In the East the fall is not very decided, but on our extreme northwest coasts, and also over the Channel and West of France it is becoming brisk. Some increase in the force of the wind is therefore probable;— from S.W. in the North and from E. in the South— but at present it is very doubtful which currents will ultimately extend over our eastern and southeastern districts.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> November 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S.W. winds, moderate to strong, perhaps a gale; dull, some rain.
1	SCOTLAND EAST	S.W. winds, freshening considerably; dull, some rain.
2	ENGLAND N.E.	S.W. and S. winds, moderate; fine generally.
3	ENGLAND EAST	Variable breezes, finally S.E. or S.; fair generally, becoming milder.
4	MIDLAND COUNTIES	D. . . . . D. . . . . D. . . . .
5	ENGLAND SOUTH	E. and S.E. winds, moderate or fresh; fine to cloudy, milder.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S.W. winds, strong, perhaps a gale; dull, some rain.
7	ENGLAND N.W.	S.W. and S. winds, freshening; fair generally.
8	ENGLAND S.W.	E. winds, strong; fine to dull and some rain.
9	IRELAND NORTH	Same as N° 6.
10	IRELAND SOUTH	S. and S.E. winds, freshening; fair to dull and some rain.

### WARNINGS

The SOUTH CONE has hoisted last evening in districts 0, 6, 9, and parts of 1 and 10.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.69	43	42	S 8	T 1/2	6	Holyhead ...	30.28	45	39	WSW	3	bc 2
Sumburgh Head ...	29.72	47	47	W 1/2	0	3	Valencia ...	30.27	48	44	SSE	3	bm 3
Stornoway ...	29.90	49	49	W 1/2	0	4	Scilly ...	30.26	45	40	E	4	c 4
Aberdeen ...	29.98	41	40	SW 3	0	1	Dungeness ...	30.32	41	37	SW	1	bc 1
Shields ...	30.13	41	36	WSW 2	0	2	London ...	30.35	34	30	Z	0	f *
Ardrossan ...	30.14	40	43	SW 5	c	4	Yarmouth ...	30.30	37	35	WNW	2	bm 3
Malin Head ...	30.11	44	43	WSW 4	c	5	Jersey ...	30.30	41	35	E	3	b 3
Mullaghmore ...	30.20	44	40	SSW 4	c	2	Rocheport ...	30.07	38	33	ENE	9	bc 4
Belmullet ...	30.20	46	43	SW 4	0	*							

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

The reports for yesterday morning showed an important modification of the meteorological conditions which prevailed over Europe on Tuesday. There was still a large low pressure area over Lapland, Northern Russia and the adjacent parts of the Arctic Sea and there was still a depression over Spain, but those over Central Europe had filled up, while the anticyclonic system which had prevailed over the British Isles extended southwards, and covered nearly the whole of France, Germany, Poland and Western Russia, as well as England and Ireland. Over Northern Europe, however, the barometer continued to fall, while over England and Central Europe it rose. Thus NE<sup>3</sup> winds<sup>and</sup> cold frosty weather spread over the greater part of the region covered by the anticyclone, while S<sup>2</sup> and SW<sup>3</sup> breezes prevailed in the north, blowing hard in places, and bringing with them a great increase of temperature both to the Scotch and Norwegian stations. The thermometer had risen a little over all the southern parts of the Mediterranean also, and readings varied from between 60° and 70° in that region and from between 40° and 48° in Scotland to between 20° and 25° over England and North Germany and to between 5° and 15° over the Baltic provinces of Russia. The highest individual values were 76° at Algiers, and 70° at Nemours (Algeria), 67° at Malta, 59° at Brindisi and 48° at Kiev; at Sumburgh Hd and Stornoway also the readings were 48°, at Wick 47° and at Narvik 44°. The lowest values were 5° at Riga, 10° at Memel, 16° at Archangel, Narva, Moscow and Nicolai, 20° at Loughborough (Leicestershire) 21° at Casul, 22° at Wiesbaden and Paris 24° at Munich, Berlin, Cambridge and Parnatoen, 25° at Brussels and in London.

Later in the day the SW<sup>3</sup> winds in the north continued to increase in strength and to spread southwards, but the frost and fog did not yield over the south of England, though showing some signs of doing so at times.

### 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).

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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. Reading at 32° F. and Sea Level.	SHADE TEMP.		WIND.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.				
			Dir.	Force. (0 to 12.)			Dry.	Wet.					Dir.	Force. (0 to 12.)		Max.	Min.		
<b>SCANDINAVIA.</b>	In.	°				In.	In.	°	°	°				°	°	In.			
Haparanda ..	29.32	25	Z	0	S	29.20	— 41	28	28	+ 19	Z	0	b	?	?	0.12			
Hernösand ...	29.48	35	SSW	2	0	29.47	— 15	39	36	+ 14	SW	2	0	?	?	—			
Stockholm ...	29.73	37	WSW	2	0	29.68	— 20	40	37	+ 10	SW	2	0	?	?	—			
Wisby ...	29.87	44	NW	4	0	29.80	— 15	41	39	+ 3	WSW	6	c	46	32	—			
Bodö ...	29.20	40	WSW	6	0	29.21	— 26	42	41	+ 8	WSW	6	r	43	32	0.32			
Christiansund...	29.43	43	SW	3	r	29.44	— 13	42	41	— 1	SW	1	r	45	39	0.71			
Skudesnaes ...	29.73	46	SSW	7	0	29.56	— 28	44	40	— 3	SSE	7	0	46	?	—			
Christiania Fjord (Fierder)	29.71	44	SW	8	bc	29.63	— 44	43	40	+ 3	NW	5	c	45	?	—			
Skagen (The Scaw)	29.84	41	W	3	0	29.69	— 44	37	34	— 6	SSW	4	bc	45	36	—			
Fanö ...	29.97	33	SSE	4	b	29.62	— 43	29	27	— 14	SE	5	c	45	28	—			
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.54	44	WSW	3	r	29.35	— 26	42	42	— 3	Z	0	c	48	39	0.11			
Stornoway ...	29.53	45	SW	4	r	29.17	— 47	45	44	— 2	SW	7	0	50	41	0.12			
Wick ...	29.59	45	SW	2	0	29.28	— 40	45	43	0	SW	2	bc	49	41	—			
Nairn ...	29.62	45	W	3	c	29.29	— 45	43	40	— 2	ESE	1	c	48	40	—			
Aberdeen...	29.69	42	SSW	3	0	29.36	— 45	40	39	— 1	SSW	2	0	44	39	0.07			
Leith ...	29.75	41	W	2	0	29.39	— 53	39	38	— 4	E	1	rm	45	38	0.02			
Shields ...	29.85	38	SSW	1	bcw	29.44	— 56	39	30	— 5	SW	2	cm	43	30	—			
Spurn Head ...	29.87	40	SE	4	b	29.44	— 67	39	38	+ 4	WNW	1	bcw	42	34	—			
York ...	29.91	33	SSE	1	b	29.43	— 67	27	27	— 2	N	1	bc	38	24	—			
Loughborough	29.89	30	E	1	b	29.48	— 68	28	27	+ 4	Z	0	om	44	24	—			
<b>GERMANY.</b>																			
Ardrossan ...	29.75	44	SSW	5	r	29.35	— 57	43	41	— 2	SSE	4	om	46	42	0.02			
Malin Head ...	29.68	43	SSW	4	bcw	29.23	— 58	41	41	— 2	SSW	4	cm	44	39	—			
Mullaghmore ...	29.72	43	SW	6	cm	29.29	— 59	42	40	0	SSW	5	cp	44	40	0.02			
Belmullet ...	29.71	46	WSW	3	c	29.31	— 53	43	40	— 3	WNW	4	c	48	43	0.17			
Donaghadee ...	29.78	41	S	2	b	29.38	— 60	40	38	+ 3	SW	3	c	42	35	—			
<b>FRANCE &amp; NETHERLANDS.</b>																			
Barrow-in-Farness	29.84	37	ESE	4	b	29.44	— 60	33	31	— 9	NE	2	bc	43	32	—			
Liverpool (Bidston)	29.85	33	SE	2	b	29.44	— 64	33	31	+ 2	SSE	2	c	39	30	—			
Holyhead ...	29.83	37	SSE	2	bc	29.44	— 61	37	34	— 6	SE	1	m	45	36	—			
Parsonstown ...	29.87	39	Z	0	0	29.40	— 60	36	35	+ 1	S	1	bc	46	33	0.03			
Valencia ...	29.80	46	S	2	a	29.44	— 54	45	43	+ 2	W	3	c	48	43	0.10			
Roche's Point...	29.79	40	E	1	bc	29.46	— 56	39	37	+ 3	W	1	bc	43	36	—			
Pembroke ...	29.79	37	ENE	3	0	29.46	— 60	37	35	+ 1	ENE	1	cg	40	34	—			
Scilly ...	29.72	43	ENE	5	0	29.48	— 49	45	42	0	NNW	4	a	45	42	—			
Prawle Point ...	29.73	40	ENE	6	0	29.45	— 56	35	34	— 7	NNW	2	ogm	46	39	0.11			
Jersey ...	29.72	37	Z	0	ogm	29.42	— 59	41	40	+ 5	Z	0	om	41	34	0.36			
Hurst Castle ...	29.83	37	NE	5	bcw	29.44	— 65	33	33	— 3	NNE	2	fd	40	32	0.03			
Dungeness ...	29.82	37	ESE	5	b	29.43	— 69	41	40	+ 6	SSE	1	0	42	34	0.04			
London ...	29.83	35	ENE	2	bc	29.47	— 69	33	32	+ 8	Z	0	omg	39	25	—			
Oxford ...	29.79	30	ENE	1	bc	29.47	— 68	29	28	+ 10	N	1	ofr	39	19	—			
Cambridge ...	29.84	30	Z	0	b	29.40	— 75	28	27	+ 5	Z	0	0	38	22	—			
<b>PORTUGAL.</b>																			
Yarmouth ...	29.89	40	ESE	6	b	29.46	— 71	37	36	+ 7	Z	0	f	40	30	—			
Cuxhaven ...	30.12	36	S	2	b	29.65	— 58	28	27	— 3	SSE	3	b	30	27	—			
Berlin ...	30.21	37	S	4	b	29.83	— 54	27	24	+ 3	SSE	4	b	34	25	—			
Wiesbaden ...	*	*	*	*	*	29.74	— 55	28	26	+ 3	Z	0	0	30	27	—			
Mannich ...	29.97	18	E	4	b	29.73	— 52	18	18	+ 5	SE	1	0	27	12	—			
<b>FRANCE &amp; NETHERLANDS.</b>																			
The Helder ...	29.90	35	E	4	b	29.82	— 71	32	31	+ 5	SSE	1	f	36	27	—			
Brussels ...	*	*	*	*	*	29.52	— 68	37	35	+ 13	SE	1	0	?	?	—			
Cape Gris Nez...	29.82	34	E	3	b	29.46	— 65	34	34	+ 9	S	1	f	36	?	—			
Paris ...	29.79	32	NE	3	0	29.50	— 60	40	38	+ 22	SE	1	0	?	31	0.04			
Brest ...	29.69	32	NE	1	m	29.49	— 37	40	35	+ 13	NE	1	f	48	?	0.03			
Lorient ...	29.68	36	E	3	a	29.48	— 39	40	39	+ 10	N	3	0	37	28	0.08			
Roche fort ...	29.69	44	ESE	5	0	29.54	— 33	50	50	+ 17	SSW	4	a	?	?	0.67			
Belfort ...	29.91	29	NE	3	b	29.73	— 34	33	33	+ 9	ESE	1	a	34	19	—			
Lyons ...	29.79	32	ENE	1	0	29.67	— 42	42	42	+ 17	S	1	r	?	?	0.04			
Nice ...	29.94	48	SSW	1	r	29.87	— 22	46	44	0	W	1	f	50	43	0.79			
Perpignan ...	29.72	32	E	4	r	29.62	— 33	34	30	+ 7	SW	3	0	58	46	0.87			
Biarritz ...	29.59	36	ESE	4	0	29.67	— 13	55	53	+ 11	W	3	0	67	?	—			
<b>PORTUGAL.</b>																			
Corunna ...	*	*	*	*	*														
Lisbon ...	29.63	55	NW	4	b	29.75	+ 24	57	48	— 2	WNW	5	bc	57	?	0.16			

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday

18<sup>th</sup> November

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.

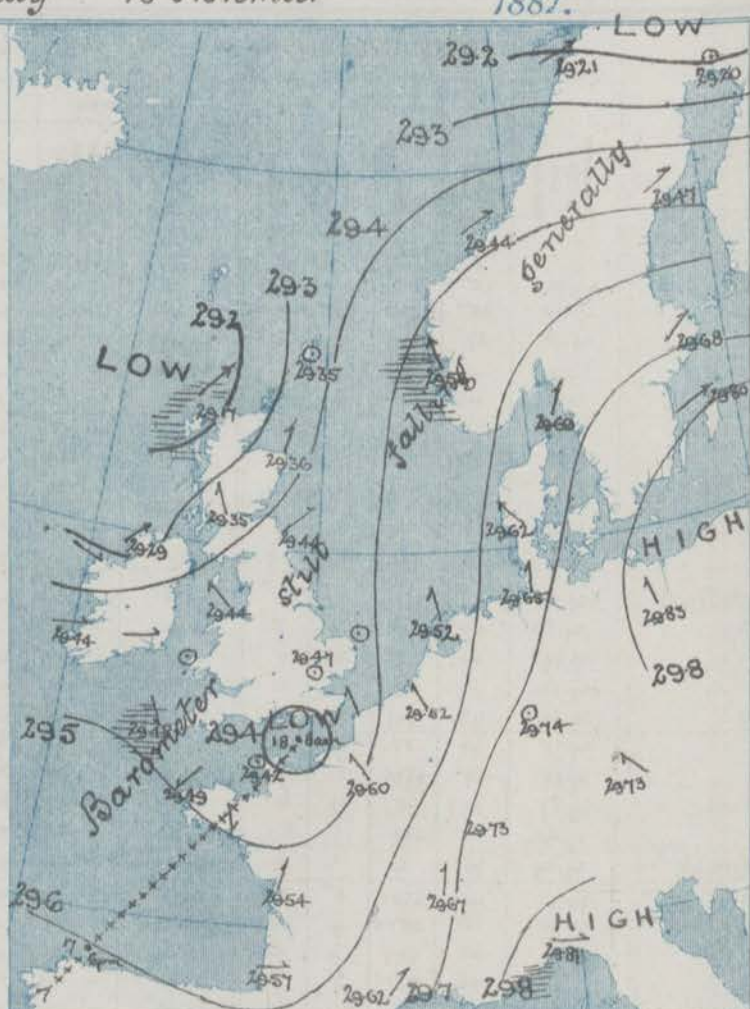
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

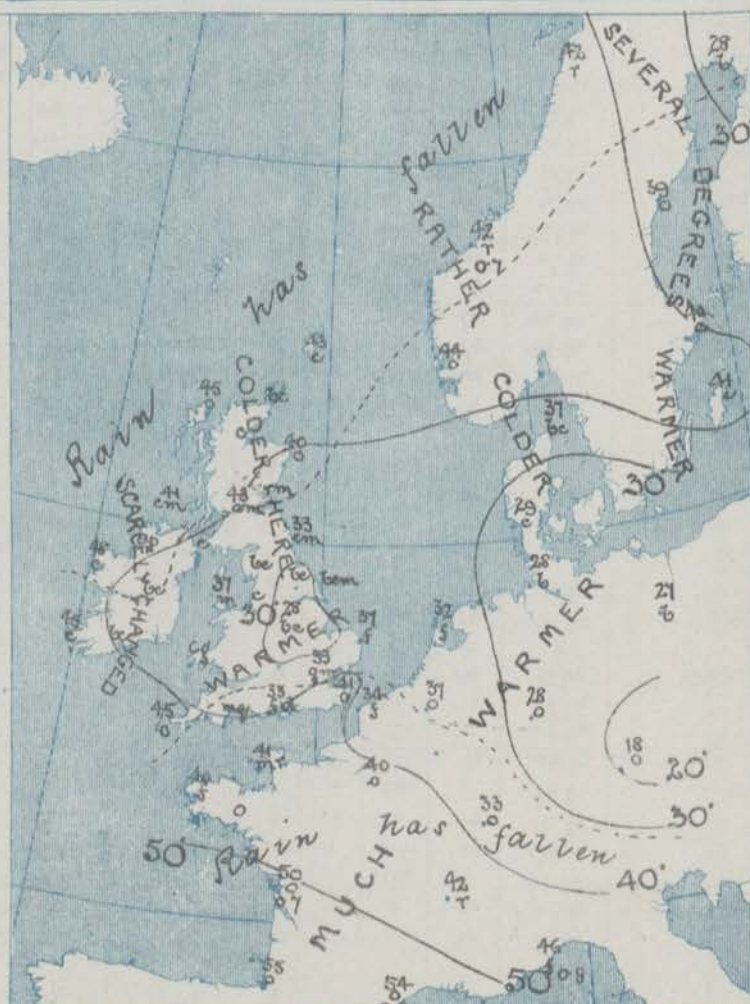
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON.	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 29.8 ins. and upwards over the Baltic, and North Germany, and also over the southeast of France. Lowest 29.2 ins. and less in a depression lying off the northwest of Scotland, 29.4 ins. and less in another disturbance (very shallow) lying over the eastern part of the Channel.

## TEMPERATURE

Gradients slight. Barometer falling generally; - briskly over our Islands. Highest 55° at Biarritz, 54° at Perpignan, 51° at Lisbon, 50° at Rochefort, 46° at Nice and 45° at Stormoway, Valencia, and Sicily. Lowest 48° at Munich, 27° at York, and Berlin, and 28° at Haparanda, Loughborough, Cambridge, and Wiesbaden. A considerable rise has taken place over France, and the change is apparently spreading northwards.

## WIND

SW. in the North of our Islands and also in Sweden, with a moderate gale at Stormoway. SE. on the eastern shores of the North Sea, as well as over the Netherlands, Germany and the east of France. Moderate NW. at the mouth of the Channel; calm and light variable over the central and eastern part of England.

## WEATHER

Fine over Sweden and Denmark, the greater part of Ireland, Scotland and the North of England. Overcast elsewhere, with fog, and slight rain in the South of England. [Distinct earthquakes were observed at Cambridge yesterday, between noon and midnight].

## SEA

Rough at Stormoway, and rather rough at Sicily, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions are very unsettled, but the fall of the barometer is at present too uniform to lead to any very important change in the distribution of pressure. The small depression in the South seems likely to advance over our southeastern districts, and sleet or cold rain is probable in many places.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> November, 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S <sup>th</sup> breezes, force doubtful; fair generally, but rain in some places.
1	SCOTLAND EAST	D° D° D°
2	ENGLAND N.E.	Variable; or SE <sup>th</sup> airs; fair to dull, with some cold rain or sleet.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	Same as No. 5.
5	ENGLAND SOUTH	Light variable airs; dull, misty, some rain or sleet; temperature rising.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SE <sup>th</sup> and S <sup>th</sup> winds, moderate; cloudy generally, with some rain.
7	ENGLAND N.W.	D° D° D°
8	ENGLAND S.W.	NW <sup>th</sup> to W <sup>th</sup> winds, moderate or fresh; cloudy, with some showers.
9	IRELAND NORTH	SW <sup>th</sup> winds, freshening; fair to dull, and some rain.
10	IRELAND SOUTH	D° D° D°

WARNINGS The S. Cone was lowered last evening in districts 0, 6, 9, and parts of 7 and 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudeanaes ...	29.79	46	45	SSW	6	of	5	Holyhead ...	29.93	42	39	S	4	bc	3
Samburgh Head ...	29.54	47	45	SW	4	c	4	Valencia ...	29.86	47	43	S	3	om	2
Stornoway ...	29.60	49	47	W	4	c	4	Scilly ...	29.79	45	41	ENE	5	o	4
Aberdeen ...	29.74	42	41	SSW	3	r	1	Dungeness ...	29.92	42	37	ESE	5	b	4
Shields ...	29.89	42	38	SSW	4	bm	2	London ...	29.94	39	34	E	3	bm	*
Ardrossan ...	29.87	44	43	SSW	5	o	5	Yarmouth ...	30.01	39	36	SE	3	b	3
Malin Head ...	29.74	44	44	SW	4	c	4	Jersey ...	29.79	36	32	E	4	o	3
Mullaghmore ...	29.78	44	42	SSW	6	ogm	4	Rochefort ...	29.74	39	38	E	7	o	2
Belmullet ...	29.77	47	46	SSW	3	o	*								

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

Yesterday morning's observations showed a further movement eastwards of the anticyclone noticed in the south of our Islands and over the north of France and North Germany on Wednesday. The centre of the system had reached Hungary, and readings varied from about 30.6 ins: at Cracow, and from 30.2 ins: over the south east of England to about 29.3 ins: over the northwest of Norway and to about 29.5 ins: near Dublin. Calms variable air and fine weather prevailed within the limits of the anticyclone the fog cleared from England, and while fresh E<sup>1</sup> (SE to NE) breezes were felt over Spain, France and the south of England, with showers at the more southern stations, fresh to strong SW<sup>1</sup> winds were felt in the north, with cloudy skies and rain in places. Temperature remained low over England and the Central parts of Europe, and had given way a little over Algeria, but was high in Iceland for the time of year. The highest individual readings reported were 66° at Oran, 64° at Algiers, and Palermo, 63° at Palma, 61° at Cagliari, 59° at Brindisi, 58° at San Fernando, 53° at Croixette; further north the readings were 47° at Valencia, Dornoway, and Skudensnaes, 46° at Samburgh Head and Belmullet, 45° at Wick and Kairn. The report from Funchal (Madeira) did not come to hand. The lowest values were 6° at Moscow, 9° at Haparanda and Uleaborg, 10° at Casrel, 13° at Munich, 15° at Cracow, 17° at Archangel and 18° at Vars, 24° at Berlin, Brussels, and Loughborough, and 25° at Oxford and in London.

Throughout the day the barometer fell almost everywhere. The low pressure area off our northern coasts continued while the Spanish depression began to spread out rapidly towards France and our southern coasts, causing a considerable and continued fall of the barometer in those regions without any important increase in the wind.

### 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 19<sup>th</sup> November

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 5.)	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 ..	29.26	22	N	2	b	29.53	+ .33	15	15	- 13	W	2	c	*	28	14	-	
Hernösand ...	29.47	28	Z	0	bc	29.45	- .02	28	27	- 11	Z	0	o	*	41	27	-	
Stockholm ...	29.61	36	Z	0	o	29.49	- .19	37	36	- 8	Z	0	f	*	43	36	-	
Wibby ...	29.66	35	SE	4	o	29.48	- .32	35	35	- 6	SSW	4	r	*	43	32	0.12	
Bodö ...	29.38	35	ENE	5	o	29.52	+ .14	28	26	- 14	NE	2	bc	2	43	?	-	
Christiansund...	29.43	42	ENE	2	o	29.33	- .11	37	38	- 3	Z	0	o	3	43	36	0.12	
Skudesnaes ...	29.34	43	ENE	1	c	29.30	- .26	38	38	- 6	ENE	1	o	3	45	?	-	
Christiania Fjord	29.49	38	SE	3	o	29.31	- .29	35	34	- 8	SE	3	T	2	43	34	0.04	
(Færdier)																		
Skagen (The Seaw)	29.43	38	S	5	o	29.27	- .42	40	40	+ 3	S	5	o	3	?	36	0.08	
Fanö ...	29.32	33	SE	5	o	29.27	- .25	41	41	+ 12	SSW	2	c	*	41	28	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.24	43	SE	2	r	29.41	- .24	41	41	- 2	SE	1	r	3	46	40	0.11	
Stornoway ...	29.14	39	SW	2	o	29.24	+ .09	39	39	- 6	SW	2	o	3	45	36	0.05	
Wick ...	29.18	44	S	2	o	29.29	+ .01	36	35	- 9	NW	2	o	0	45	34	-	
Nairn ...	29.16	41	SE	2	c	29.26	- .08	37	36	- 6	NW	1	c	1	44	36	-	
Aberdeen...	29.21	39	SSW	1	o	29.24	- .12	34	33	- 6	W	1	om	0	42	33	-	
Leith ...	29.20	39	SE	1	r	29.23	- .16	39	38	- 0	W	1	m	*	42	34	0.01	
Shields ...	29.23	36	SW	1	m	29.25	- .19	32	31	- 11	W	1	bc	2	40	30	-	
Spurn Head ...	29.25	39	Z	0	m	29.25	- .19	35	34	- 4	SW	1	bm	3	39	32	-	
York ...	29.26	32	W	1	o	29.26	- .17	26	26	- 1	Z	0	f	*	36	26	-	
Loughborough	29.29	33	SE	1	o	29.28	- .20	29	29	+ 1	WSW	1	ogm	*	36	27	-	
GERMANY.																		
Ardrossan ...	29.16	41	SE	3	omp	29.23	- .12	35	34	- 8	ENE	2	bf	1	44	33	0.01	
Malin Head ...	29.12	37	SSW	3	bm	29.23	- .00	39	39	- 2	NW	4	cp	3	45	34	0.09	
Mullaghmore ...	29.15	41	NW	6	cp	29.26	- .03	40	38	- 2	NNE	5	c	4	44	38	0.85	
Belmullet ...	29.21	41	NNW	9	r	29.34	+ .03	41	40	- 2	N	4	bc	*	43	38	0.54	
Donaghadee ...	29.20	34	SSW	3	c	29.19	- .19	39	38	- 1	E	3	r	1	46	30	0.07	
IRELAND.																		
Barrow-in-Furness	29.23	35	ENE	2	o	29.21	- .23	35	34	+ 2	NE	1	bc	*	37	32	0.03	
Liverpool (Bidston)	29.24	35	SE	2	o	29.22	- .22	33	32	- 0	SE	2	b	2	38	32	0.08	
Holyhead ...	29.23	42	WSW	2	cp	29.16	- .28	41	40	+ 4	SW	3	cp	2	46	37	0.04	
Parsonstown ...	29.26	37	Z	0	b	29.24	- .16	37	35	+ 1	N	2	o	*	45	38	0.08	
Valencia ...	29.36	43	N	3	op	29.33	- .11	47	43	+ 2	NW	6	gppm	6	50	43	0.21	
Roche's Point...	29.31	43	NW	3	b	29.24	- .22	42	40	+ 8	W	5	cp	4	45	39	0.10	
Pembroke ...	29.27	44	NW	1	r	29.21	- .25	46	43	+ 9	W	4	bc	4	47	37	0.13	
Scilly ...	29.29	47	SE	5	o	29.30	- .18	47	44	+ 2	NW	5	c	6	49	44	0.04	
Prawle Point ...	29.33	41	NW	1	bc	29.31	- .14	39	38	+ 4	NW	2	bc	2	43	34	0.32	
Jersey ...	29.36	44	WSW	1	om	29.27	- .13	44	42	+ 3	N	3	om	3	46	40	0.13	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.32	35	NW	1	mgd	29.28	- .16	37	37	+ 4	NW	1	rm	2	40	32	0.12	
Dungeness ...	29.24	41	N	8	r	29.29	- .14	33	33	- 8	NW	1	f	1	45	32	0.24	
London ...	29.34	33	NW	1	ots	29.31	- .16	30	28	- 3	SW	1	bc	*	38	26	0.39	
Oxford ...	29.30	32	Z	0	o	29.30	- .17	33	33	+ 4	SW	1	ogf	*	34	29	-	
Cambridge ...	29.27	32	Z	0	3	29.29	- .11	27	27	- 1	SW	1	c	*	32	26	?	
Yarmouth ...	29.28	36	SSW	2	com	29.29	- .17	33	32	- 4	W	1	bcf	2	40	30	0.03	
Cuxhaven ...	29.45	36	SSW	3	o	29.36	- .29	41	40	+ 13	S	2	o	*	41	?	-	
Berlin ...	29.39	31	SSW	3	o	29.48	- .35	30	28	+ 3	SSW	2	bc	*	34	?	-	
Wiesbaden ...	*	*	*	*	*	29.45	- .39	35	32	+ 7	E	1	r	*	34	28	-	
Munich ...	29.52	28	E	2	b	29.45	- .28	25	25	+ 7	SE	3	bc	*	41	?	-	
NETHERLANDS.																		
The Helder ...	29.26	38	S	1	f	29.28	- .34	39	39	+ 7	S	1	f	1	43	32	-	
Brussels ...	*	*	*	*	*	29.34	- .18	41	40	+ 4	SSW	1	f	*	48	?	0.04	
Cape Gris Nez...	29.28	40	S	7	r	29.31	- .15	41	39	+ 7	SW	1	o	1	?	27	0.20	
Paris ...	29.40	48	SSW	3	o	29.34	- .16	39	39	- 1	SW	1	r	*	?	39	0.08	
Brest ...	29.42	46	NW	4	o	29.31	- .18	46	42	+ 6	NW	5	bc	5	46	21	-	
Lorient ...	29.44	46	NW	5	o	29.37	- .11	43	41	+ 3	NW	4	bc	4	45	37	0.08	
Rochefort ...	29.53	50	WSW	4	o	29.43	- .11	46	44	- 5	SSW	5	c	2	55	41	0.12	
Belfort ...																		
Lyons ...	29.55	48	S	1	r	29.44	- .23	46	43	+ 4	WSW	1	o	*	53	?	0.16	
Nice ...	29.65	48	E	3	o	29.51	- .30	48	46	+ 2	E	5	o	6	48	45	2.52	
Perpignan ...	29.47	50	Z	0	b	29.49	- .13	46	45	- 8	NW	1	r	*	60	45	0.28	
Biarritz ...	29.56	52	NW	7	r	29.46	- .11	51	46	- 4	W	7	o	3	55	45	0.59	
SPAIN.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	29.84	51	WSW	5	b	29.81	+ .06	54	49	+ 3	NW	5	b	8	57	50	0.04	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturdays 19<sup>th</sup> November

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

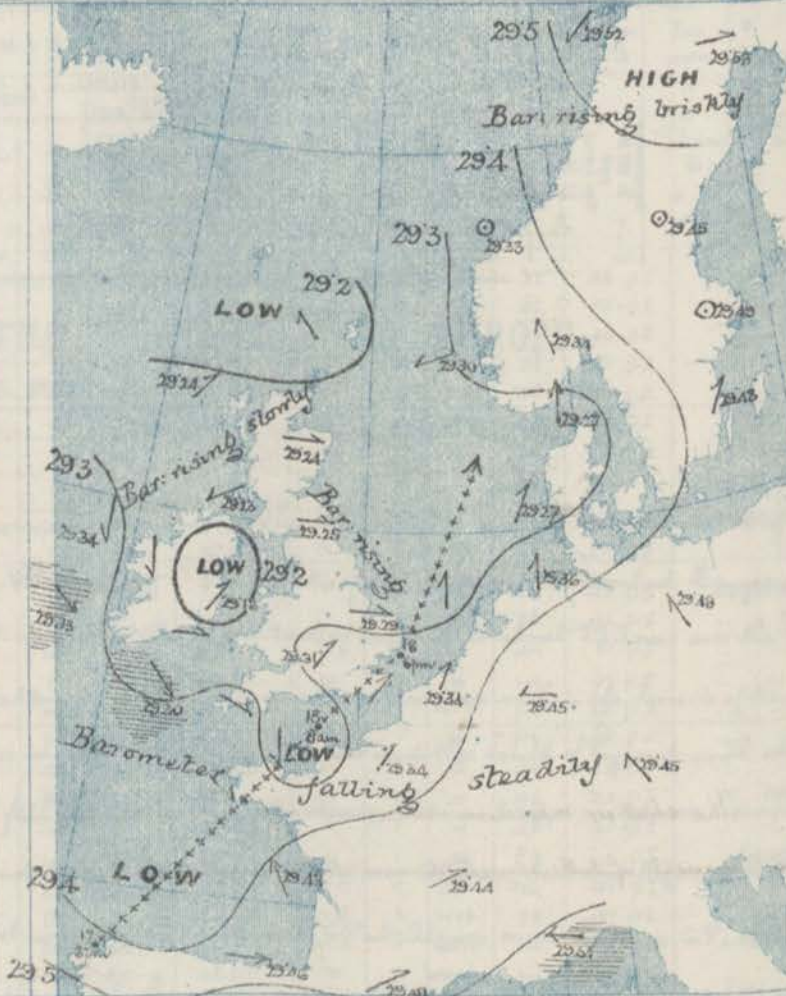
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7; —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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.809
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

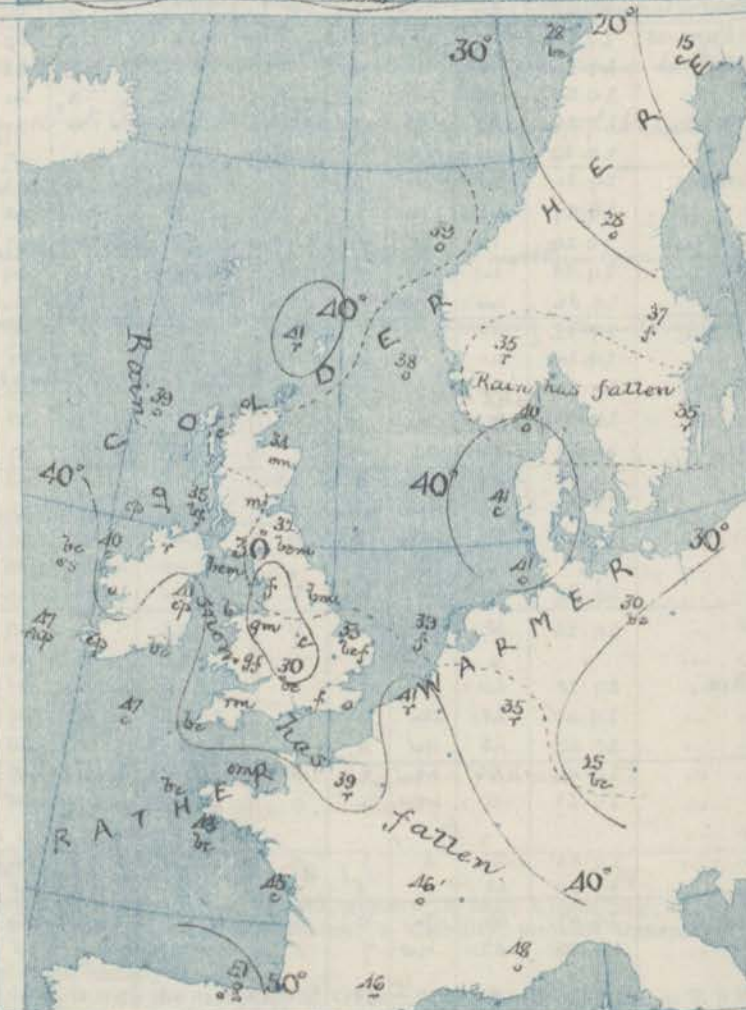
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.03
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	8.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.78
Hurst Castle	50.0	39.5	44.1	43.1	2.08
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, 29.8 in. and upwards, in the neighbourhood of Lisbon; relatively high 29.5 in. and upwards over the north of Scandinavia. Lowest, 29.2 in. and less, in a depression lying over the Irish Sea. Other shallow disturbances are lying respectively over the North Sea, the Channel and Bay of Biscay.

## TEMPERATURE

Highest, 54° at Lisbon, 51° at Biarritz, 48° at Nice, 47° at Valencia and Sicily, and 46° at Rheims, Lyons and Paris. Lowest, 15° at Haparanda, 23° at Munich, 26° at York, 27° at Cambridge, and 28° at Rodez and Hernimand.

Sharp frost occurred last night over our eastern and midland counties; in London the thermometer on the grass fell to 25°.

## WIND

Fresh from N or NW. on our extreme west and southwest coasts.

Light from W in Scotland, and from SW. in the eastern parts of England and France.

S. on the eastern shores of the North Sea. Calm or light variable in Scotland.

## WEATHER

Fine over the greater part of England as well as in the northwest of France, but with mist or fog locally.

Cloudy or overcast in most other localities, with showers at many stations.

(Snow fell yesterday over the southeast of England and rain in many other parts of the kingdom.)

## SEA

Very high at Lisbon, rough at Valencia, and eddy, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depressions which are lying respectively over our west coasts and the Channel seem likely to move E<sup>nd</sup> or NE<sup>nd</sup> and a renewal of dull unsettled weather is therefore probable over England with snow or cold rain in many places.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> NOVEMBER 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Light airs chiefly from the W <sup>nd</sup> ; dull, mist and rain locally.
1	SCOTLAND EAST	Do Do Do
2	ENGLAND N.E.	Same as No 5
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	Light breezes, chiefly S <sup>th</sup> weather very unsettled, fog in places and some snow or sleet.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Variable breezes, finally N <sup>th</sup> , unsettled, some cold showers.
7	ENGLAND N.W.	Do Do Do
8	ENGLAND S.W.	N <sup>th</sup> winds, moderate; some cold showers.
9	IRELAND NORTH	N <sup>th</sup> winds, moderate or fresh, unsettled, some cold showers.
10	IRELAND SOUTH	Same as No 8

### WARNINGS

NO NE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wes.	Sea.		Bar.	Ther.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.46	43	40	SE 4	0	+	Holyhead ...	29.27	45	43	SE 3	c	2
Sumburgh Head ...	29.27	45	44	SE 1	0	3	Valencia ...	29.30	49	44	W 3	bcp	3
Stornoway ...	29.12	43	43	SE 4	0	5	Scilly ...	29.35	43	46	W 3	c	4
Aberdeen ...	29.15	41	40	SE 2	om	1	Dungeness ...	29.29	44	44	SE 4	r	2
Shields ...	29.16	39	35	SE 2	m	1	London ...	29.31	36	35	2	o g r	*
Ardrossan ...	29.21	44	42	SE 3	0	3	Yarmouth ...	29.31	39	39	2	0	1
Malin Head ...	29.17	43	42	SE 5	6	3	Jersey ...	29.31	46	45	W 1	m	1
Mullamore ...	29.19	44	41	SE 5	c g p	4	Rochefort ...	29.36	52	52	W 5	c	2
Bullet ...	29.21	43	39	W 4	bc	4							

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

The reports for yesterday morning showed that the anticyclonic system referred to in the notes of the past few days had moved southward and that its central area then covered the Black Sea. In that region the barometer stood at 30.5 ins. and more, but the readings decreased in value in a northerly direction to about 29.3 ins. over Lapland, to 29.2 ins. and less off the Hebrides, and to 29.4 ins. and less in a local depression the centre of which lay near Havre. Over Central Europe and Russia the weather was bright and fine, the winds very light and variable, but in the northwest the wind was S.W. or S. and the weather mild and showery, while in the south of the British Isles and over France there was a distinct shallow system of light winds, accompanied by a considerable fall of cold rain, sleet or snow.

Temperature as a whole, varied from about 5° over the north of Russia, and from between 20° and 32° over Austria and North Germany to somewhat above 40° over the northwestern parts of the British Isles and the coast of Norway, to 50° and more in the southeast of France and in Portugal, and to 60° and more over the southern part of the Mediterranean. There was also a well marked area of frost over the northern parts of England. The lowest individual readings reported were 4° at Anchapel, 16° at Warsaw, 18° at Kiev and Munich, 20° at Kharkov, 22° at New-Felmersee, 23° at Breslau, Nicolaev, Odessa and Vienna, 27° at Berlin and at York, 28° at Loughborough and at Cambridge. The highest were (1) 66° at Fay, and 67° at Oran, Algiers, Tunis and Palermo, 63° at Bunderi, 58° at Biarritz, 54° at Perpignan; (2) in the north 45° at Stornoway and Wick, 44° at Skudesnaes, 43° at Kain and Tander and 42° both at Bodo and Christiansund.

During the day rain, snow, and wet fog prevailed in the south of England until the local depression near Havre had passed away to the North Sea, but other disturbances began to appear over the British Isles, where the weather was in a most unsettled condition 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 Sunday 20<sup>th</sup> NOVEMBER, 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.					SHADE TEMP.		Max.	Min.
			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.		
<b>SCANDINAVIA.</b>																				
Haparanda ...	29.65	31	Z	0	c		29.67	+ .14	12	12	- 3	NNE	2	0	*		23	9	-	
Hernösand ...	29.43	31	NNE	2	c		29.51	+ .06	23	28	+ 1	NNE	4	0	*		34	25	0.39	
Stockholm ...	29.43	35	Z	0	o		29.50	+ .01	36	35	- 1	Z	0	f	*		39	22	0.08	
Wishby ...	29.46	39	S	2	r		29.49	+ .01	42	41	+ 7	W	4	0	*		34	24	0.68	
Bodö ...	29.55	28	ENE	2	o		29.68	+ .06	25	20	- 3	E	4	b	2		28	25	-	
Christiansand ...	29.46	37	NE	6	r		29.63	+ .30	35	31	- 4	NE	6	bc	3		29	32	0.04	
Skudenes ...	29.40	39	Z	0	o		29.50	+ .10	41	39	+ 3	E	4	o	3		37	-	-	
Christiania Fjord (Fæder)	29.37	37	NNE	4	o		29.50	+ .16	36	35	+ 1	NNW	2	c	1		37	-	0.08	
Skagen (The Sea)	29.36	38	W	1	o		29.49	+ .12	40	40	0	NE	1	o	1		41	37	0.08	
Fanö ...	29.39	38	SSW	2	o		29.50	+ .13	36	36	- 5	SSW	1	c	*		41	36	0.04	
<b>BRITISH ISLANDS.</b>																				
Sumburgh Head	29.42	40	N	1	o		29.53	+ .42	40	40	- 1	Z	0	o	2		42	38	0.15	
Stornoway ...	29.47	38	N	2	b		29.58	+ .34	38	38	- 1	N	2	o	3		44	35	0.15	
Wick ...	29.44	42	NW	2	o		29.57	+ .28	36	36	0	NW	2	bc	0		43	34	0.14	
Nairn ...	29.47	41	WSW	3	o		29.58	+ .22	41	40	+ 4	Z	0	o	1		43	34	0.23	
Aberdeen ...	29.41	41	NNW	3	odpm		29.56	+ .32	40	39	+ 6	NW	3	cp	1		43	30	0.05	
Leith ...	29.41	40	W	1	m		29.60	+ .37	38	37	- 1	W	1	cm	*		43	37	-	
Shields ...	29.38	37	Z	0	bc		29.56	+ .31	39	37	7	Z	0	o	3		43	32	-	
Spurn Head ...	29.36	40	Z	0	b		29.51	+ .29	33	38	3	NNW	3	bc	3		43	32	-	
York ...	29.36	29	N	1	bc		29.58	+ .22	33	31	+ 7	N	1	o	*		33	25	-	
Loughborough	29.35	35	ESE	1	o		29.59	+ .31	32	31	+ 3	WNW	1	f	*		43	29	-	
<b>GERMANY.</b>																				
Ardrossan ...	29.43	39	NE	1	b		29.61	+ .38	34	33	- 1	ENE	1	cm	1		41	31	-	
Malin Head ...	29.44	44	NE	2	bc		29.59	+ .36	42	42	+ 3	SW	2	cm	2		46	31	0.64	
Mullaghmore ...	29.46	44	N	5	b		29.61	+ .35	38	36	- 2	SW	1	c	2		45	36	0.01	
Belmullet ...	29.51	43	NE	3	b		29.63	+ .29	38	37	- 3	SE	1	b	*		47	36	0.10	
Donaghadee ...	29.46	41	N	2	b		29.62	+ .42	34	34	- 5	W	2	bc	1		45	34	0.21	
Barrow-in-Furness	29.37	38	NE	1	b		29.58	+ .37	33	32	- 2	ENE	1	bc	*		43	32	-	
Liverpool (Bidston)	29.36	38	ENE	1	m		29.60	+ .38	35	34	+ 2	NW	1	b	2		41	33	-	
Holyhead ...	29.35	41	ENE	2	bc		29.61	+ .45	37	36	- 4	SSE	1	cm	1		43	37	0.06	
Parsonstown ...	29.44	38	NNW	1	b		29.67	+ .43	27	26	- 13	Z	0	b	*		43	26	-	
Valencia ...	29.51	45	NNE	3	cp		29.69	+ .36	42	41	- 5	Z	0	m	1		53	42	0.20	
Roche's Point...	29.40	41	NNW	5	b		29.65	+ .41	40	37	- 2	N	2	b	3		44	35	-	
Pembroke ...	29.38	39	N	3	bc		29.62	+ .41	40	38	- 6	NNE	2	m	2		46	37	0.15	
Seilly ...	29.29	42	NNW	6	ohq		29.57	+ .27	47	45	0	NNE	6	og	6		49	40	0.37	
Prawle Point ...	29.27	39	WNW	2	c		29.54	+ .23	37	37	- 2	NNE	4	cm	2		48	33	0.10	
Jersey ...	29.31	42	S	2	cg		29.62	+ .23	36	36	- 8	NW	2	bc	2		48	35	0.47	
Hurst Castle ...	29.29	38	NNE	2	c		29.57	+ .23	38	38	+ 1	NNE	3	m	1		41	35	0.49	
Dungeness ...	29.31	47	SSW	2	c		29.48	+ .19	43	42	+ 10	ESE	3	o	2		47	30	0.02	
London ...	29.33	39	SE	1	o		29.54	+ .23	36	35	+ 6	N	1	cf	*		47	30	0.17	
Oxford ...	29.34	36	ESE	1	r		29.58	+ .28	35	35	+ 2	N	1	og	*		29	33	0.26	
Cambridge ...	29.34	33	S	1	b		29.58	+ .29	32	31	+ 5	N	1	cm	*		43	25	-	
Yarmouth ...	29.35	37	Z	0	bc		29.53	+ .24	40	39	+ 7	NE	2	bc	3		40	31	-	
Cuxhaven ...	29.38	40	S	1	f		29.53	+ .17	40	39	- 1	W	4	f	*		41	39	-	
Berlin ...	29.50	35	Z	0	o		29.54	+ .06	33	32	+ 3	Z	0	f	*		26	27	0.04	
Wiesbaden ...	*	*	*	*	*		29.45	.00	36	35	+ 1	SE	1	o	*		39	24	0.12	
Munich ...	29.46	38	W	2	b		29.38	- .07	29	29	+ 4	W	2	f	*		29	25	-	
<b>FRANCE &amp; NETHERLANDS.</b>																				
The Helder ...	29.41	38	S	1	f		29.54	+ .26	33	33	- 6	S	1	f	1		43	32	-	
Brussels ...	*	*	*	*	*		29.52	+ .18	37	36	- 4	SSW	1	m	*		43	35	0.08	
Cape Gris Nez...	29.34	38	S	3	f		29.51	+ .20	38	38	- 3	S	1	f	1		46	36	-	
Paris ...	29.39	41	ESE	2	o		29.50	+ .16	31	31	- 8	SW	1	f	*		43	31	-	
Brest ...	29.29	42	NNW	7	o		29.52	+ .21	43	40	- 3	NNE	5	o	5		46	28	0.24	
Lorient ...	29.36	45	W	7	o		29.46	+ .09	39	37	- 4	NE	5	b	4		50	37	0.20	
Rochefort ...	29.32	47	NW	5	r		29.49	+ .06	41	40	- 4	NNE	4	r	2		50	37	0.39	
Belfort ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*	
Lyons ...	29.46	42	N	1	r		29.53	+ .06	39	38	- 7	NNW	3	r	*		38	38	0.63	
Nice ...	29.42	46	E	1	o		29.35	- .16	46	46	- 2	ENE	3	r	5		48	45	1.22	
Perpignan ...	29.46	48	NW	3	o		29.52	+ .03	45	45	- 1	NW	5	b	*		52	44	0.79	
Biarritz ...	29.57	48	W	7	o		29.52	+ .06	45	45	- 6	SW	7	r	5		52	41	0.71	
Corunna ...	*	*	*	*	*		29.32	+ .16	54	50	+ 3	NNW	8	bc	2		54	45	0.12	
Lisbon ...	29.45	32	WNW	5	bc		29.43	+ .12	57	54	+ 3	W	5	c	8		57	50	0.04	

For Explanation of Columns, see p. 4.



# WEATHER

for 8 a.m. on

# CHARTS

Sunday 20<sup>th</sup> November

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

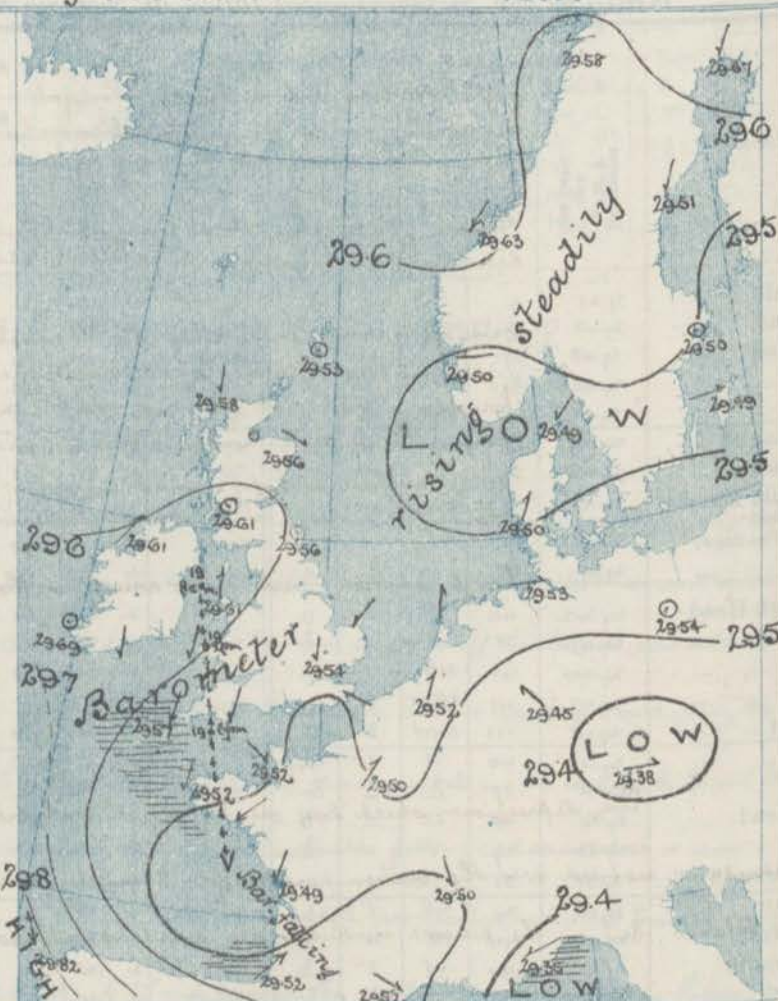
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**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — force above 10; \* — forces 8 to 10;  
 \* — forces 5 to 7; \* — forces 1 to 4;  
 ○ — dead calm.

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.780
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## TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

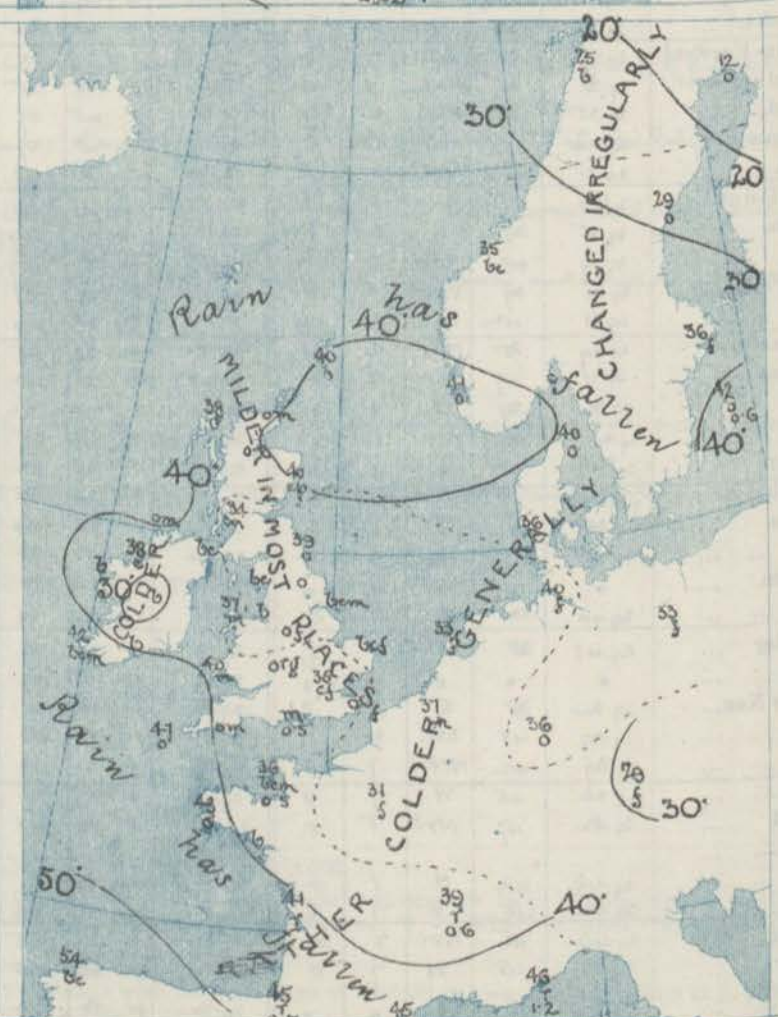
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	38.6	40.9	39.4	2.11
Shields	46.8	39.0	41.3	39.7	2.63
York	47.8	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
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Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, 29.9 ins: and upwards in Portugal.  
Lowest, 29.4 ins: and less, in two depressions lying respectively over South Germany and the Gulf of Genoa.  
Gradients rather steep over the north of Spain, but slight elsewhere. Barometer rising generally.

## TEMPERATURE

Highest, 57° at Lisbon, 54° at Corunna, 47° at Seely, 46° at Aker, and 45° at Lianitz and Berghausen.  
Lowest, 12° at Haparanda, 25° at Rode, 27° at Kronstoun, 25° at Hernsand and Munich, 31° at Paris, and 32° at Brighton and Cambridge.

## WIND

Moderate to strong from NE. over the Channel and Bay of Biscay and also in the north of Scandinavia.  
Light from N. or NW. on the east coast of Great Britain, strong to a gale from the same quarters in Spain.  
Variable in Denmark, Germany, and the east of France.

## WEATHER

Fine in Ireland, the north and east of England and the north of Norway.  
Dull elsewhere with fog or mist in many places, and rain in the south of France.  
Rain fell yesterday at all but our eastern stations, with thunder and lightning in the southwest of England at night.

## SEA

Rough at Seely, and rather rough in the Bay of Biscay, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over the Irish Sea yesterday has moved southwards to the Bay of Biscay, while the disturbance noticed over the eastern part of the Channel has almost entirely dispersed. The barometer has therefore risen over our Islands, but in the extreme northwest the wind has shifted to the SW<sup>W</sup> since last evening.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> NOV<sup>r</sup> 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.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.32	39	37	NNE 2	o	3	Holyhead ...	29.23	42	40	ESE 2	r	2
Sumburgh Head ...	29.37	40	39	Z 0	o	3	Valencia ...	29.43	48	44	N 4	bcap	5
Stornoway ...	29.32	44	44	NE 2	bc	3	Scilly ...	29.24	46	44	NNW 6	og	6
Aberdeen ...	29.31	41	40	NW 1	m	0	Dungeness ...	29.30	45	41	E 1	c	1
Shields ...	29.29	43	41	N 1	bm	0	London ...	29.29	45	41	SE 1	cm	*
Ardrossan ...	29.31	41	40	N 1	cf	1	Yarmouth ...	29.31	39	37	W 1	bm	2
Malin Head ...	29.34	44	43	NNE 3	b	2	Jersey ...	29.30	47	43	NNW 1	c	1
Mullaghmore ...	29.35	45	42	N 5	b	3	Rochefort ...	29.48	50	46	WNW 7	bc	2
Belmullet ...	29.40	46	44	N 3	cp	*							

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

The reports for yesterday morning showed that pressure was still highest over the Black Sea, Turkey, and the south of Russia, where the readings varied from 30.0 in. to 30.5 in.: It was lowest 29.2 in. to 29.4 in. over the British Isles, Channel and North Sea, where there was a complete low pressure system having several minima — one near the mouth of the Skagerrack, another over the Irish Sea, and a third over the Cherbourg Peninsula. Thus, while S<sup>2</sup> winds and cold fine weather were prevalent over Central and Eastern Europe, varying winds from S. W. and N. were felt over Northwestern Europe, with very unsettled weather, cold showers and in some places fog. Temperature was low — varying from several degrees below the freezing point <sup>over</sup> Central and Northern Europe and over Russia, as well as over the inland parts of England to rather above 50° in the north and west of the Iberian Peninsula, and to upwards of 60° over the eastern parts of the Mediterranean. The lowest individual values were 15° at Hermannstadt and Haparanda, 20° at Stockholm, 22° at New Fahrwasser, 23° at Memel, Riga, Kiev, Warsaw and Olsborg, 25° at Munich and Cambridge, and 26° to 30° over the midland counties of England. The highest were 66° at Annaba (Algiers) and Palermo, 61° at Naples, 60° at Cagliari, 59° at Brindisi, 56° at Legonia, 55° at Lisbon and 57° at Biarritz and Corunna.

Later in the day the depression over the Irish Sea began to move southwards, but there was no improvement whatever in the general condition of pressure in our 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 Monday 21<sup>st</sup> November

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.										LAST 24 HOURS.			
	Barometer at 8 a.m. 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 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.73	11	W	0	0	29.67	+ .20	5	5	- 7	W	2	6	*	14	5	-		
Hernösand ...	29.78	22	W	0	6	30.02	+ .51	6	5	- 23	W	0	6c	*	34	3	-		
Stockholm ...	29.75	35	NNE	2	0	29.88	+ .38	32	30	- 4	NE	2	0	*	39	?	-		
Wisby ...	29.67	41	S	2	0	29.71	+ .22	39	38	- 5	E	4	0	*	43	36	-		
Bodö ...	29.74	21	ENE	3	6	29.84	+ .26	25	22	0	ESE	2	0	1	25	21	-		
Christiansund ...	29.77	33	E	4	6	29.86	+ .28	30	28	- 5	ESR	4	6	2	41	18	-		
Skudesnaes ...	29.63	42	ESE	1	7	29.74	+ .24	41	37	0	E	2	0	3	43	41	-		
Christiania Fjord (Fardar)	29.77	33	NNE	4	6	29.82	+ .32	34	32	- 2	NNE	5	0	2	37	9	-		
Skagen (The Scaw)	29.61	41	W	0	0	29.68	+ .19	38	37	- 2	ENE	5	0	3	41	37	0.04		
Fanö ...	29.58	35	W	0	0	29.58	+ .08	39	39	+ 3	NE	2	3	*	41	34	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.57	36	W	0	6c	29.67	+ .14	42	42	+ 2	ENE	1	7	2	43	35	0.01		
Stornoway ...	29.53	39	E	2	6c	29.58	.00	38	37	0	E	1	0	2	42	34	0.02		
Wick ...	29.55	42	NE	1	6c	29.62	+ .05	40	40	+ 4	SE	1	0	0	43	33	0.36		
Nairn ...	29.66	40	W	0	0	29.60	+ .02	34	33	- 7	W	0	0	2	41	33	-		
Aberdeen ...	29.57	40	W	1	0	29.63	+ .07	31	31	- 9	W	1	6m	1	44	30	-		
Leith ...	29.58	37	W	1	m	29.58	- .02	36	36	- 2	SE	1	0	*	42	33	-		
Shields ...	29.58	42	W	0	m	29.58	+ .02	44	42	+ 5	W	0	0	2	46	37	0.01		
Spurn Head ...	29.58	41	NW	2	0	29.56	+ .02	40	40	+ 2	NW	1	0	4	41	36	-		
York ...	29.50	37	W	0	0	29.53	.00	34	34	+ 1	SW	1	0	*	40	31	-		
Loughborough	29.61	31	NW	1	6	29.59	- .00	32	32	0	E	1	0	*	45	27	0.01		
ARDROSSAN.																			
Ardrossan ...	29.56	40	ENE	1	0m	29.57	- .04	34	33	0	ENE	2	6m	1	41	33	-		
Malin Head ...	29.50	40	S	2	6m	29.45	- .14	43	42	+ 1	SE	3	6cm	3	44	36	-		
Mullaghmore ...	29.48	43	ESE	3	0	29.36	- .25	41	40	+ 3	ESE	5	7g	4	45	37	-		
Belmullet ...	29.42	42	ESE	4	0	29.30	- .38	39	39	+ 1	ESE	4	0	*	44	38	0.33		
Donaghadee ...	29.55	34	NW	2	0	29.49	- .13	44	42	+ 10	ESE	5	0	3	45	32	0.10		
BARROW-IN-FARNES.																			
Barrow-in-Farness	29.58	37	E	1	6	29.54	- .04	34	33	+ 1	NE	2	6c	*	42	32	-		
Liverpool (Bidston)	29.60	38	NW	1	6	29.65	- .05	32	32	- 3	ESE	3	0	3	42	29	0.01		
Holyhead ...	29.59	40	W	0	m	29.47	- .14	36	35	- 1	ESE	1	0	1	46	35	-		
Parsonstown ...	29.32	38	SE	1	6c	29.31	- .36	43	41	+ 16	SE	2	7	*	43	26	0.07		
Valencia ...	29.45	48	SE	5	0	29.34	- .35	43	42	+ 1	NNE	2	7g	2	50	41	0.33		
ROCHE'S POINT.																			
Roche's Point ...	29.51	48	NW	4	0	29.34	- .31	39	37	- 1	S	1	6c	3	48	37	0.26		
Pembroke ...	29.58	45	SSE	2	6c	29.38	- .24	44	44	+ 4	ESE	6	7m	4	47	39	0.03		
Scilly ...	29.61	47	NW	2	0	29.35	- .22	47	46	0	S	5	0	5	49	43	0.23		
Prawle Point ...	29.65	37	NNE	2	6	29.46	- .08	46	43	+ 9	SE	4	6c	3	46	35	-		
Jersey ...	29.62	38	N	1	6m	29.54	+ .02	44	40	+ 5	ESE	3	0m	3	48	36	0.01		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.60	40	NNE	2	m	29.54	+ .03	38	38	0	ENE	2	7f	1	41	32	0.02		
Dungeness ...	29.56	45	ESE	2	0	29.48	+ .07	30	30	- 13	N	2	7f	1	45	28	0.04		
London ...	29.61	37	W	0	0f	29.49	+ .05	32	32	- 4	W	0	7g	*	40	31	-		
Oxford ...	29.64	34	W	0	0	29.60	+ .02	30	30	- 5	NNE	1	0	*	39	30	-		
Cambridge ...	29.62	37	N	1	0	29.60	+ .02	32	31	0	N	1	0	*	37	30	-		
Yarmouth ...	29.56	40	NE	1	6	29.57	+ .04	34	34	- 6	NW	1	6	3	43	31	-		
Cuxhaven ...	29.44	39	W	1	6	29.53	.00	40	40	0	NE	3	6	*	41	39	-		
Berlin ...	29.49	36	E	1	0	29.40	- .14	36	34	+ 3	SW	2	6	*	39	?	0.32		
Wiesbaden ...	*	*	*	*	*	29.45	.00	39	38	+ 3	W	0	0	*	43	?	-		
Munich ...	29.37	33	W	3	0	29.44	+ .06	39	33	+ 4	W	4	3	*	36	22	0.32		
GERMANY.																			
The Helder ...	29.56	40	NW	1	6	29.55	+ .01	42	42	+ 9	NW	1	0	1	43	?	-		
Brussels ...	*	*	*	*	*	29.58	+ .06	40	40	+ 3	NW	3	7	*	41	?	0.08		
Cape Gris Nez ...	29.56	39	E	4	m	29.56	+ .05	41	39	+ 3	S	1	6	0	43	36	-		
Paris ...	29.60	36	NW	1	0	29.64	+ .14	36	34	+ 4	NW	1	0	*	39	?	-		
Brest ...	29.67	40	N	3	0	29.47	- .05	46	45	+ 3	SSE	7	7	6	?	?	0.08		
Lorient ...	29.64	45	NW	1	6	29.50	+ .04	48	45	+ 9	S	4	0	4	48	37	-		
Rochefort ...	29.69	43	NE	5	0	29.71	+ .22	39	39	- 2	SE	7	7	2	43	32	0.04		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	?	41	NW	3	0	29.67	+ .17	38	35	- 1	NW	4	0	*	43	35	0.04		
Nice ...	29.76	46	E	3	6c	29.37	+ .02	44	43	- 2	ENE	3	0	5	43	41	0.04		
PERIGNAN.																			
Perpignan ...	29.53	47	NW	5	6	29.73	+ .21	44	40	- 1	NW	4	6	*	44	43	-		
Biarritz ...	29.68	52	NW	8	7	29.67	+ .15	46	43	+ 1	S	4	0	5	51	43	0.32		
CORUNNA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.96	58	N	5	6	29.85	- .08	53	53	- 4	SW	5	0	5	63	52	0.08		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 21<sup>st</sup> November, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

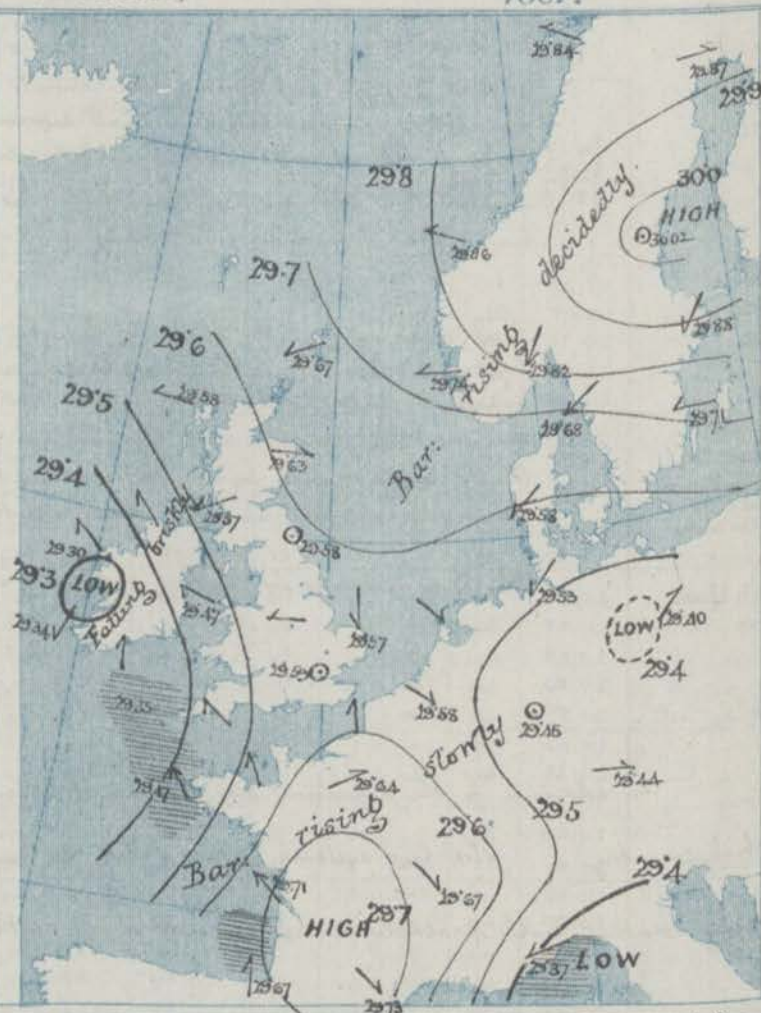
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

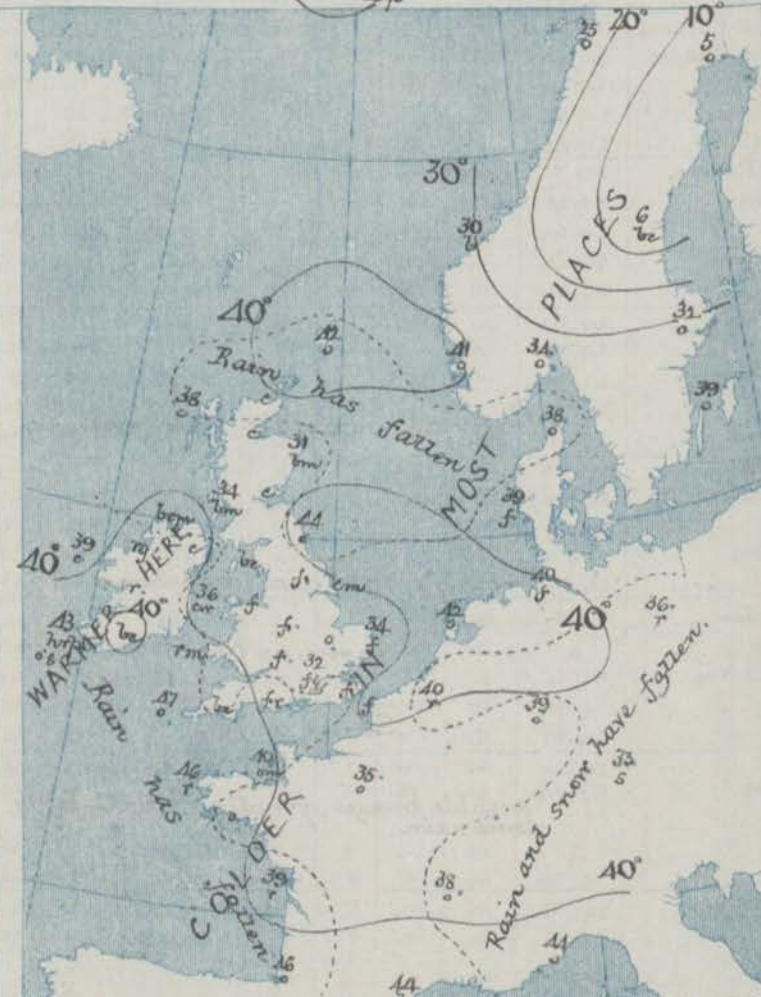
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**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min.	At 8 a.m.	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
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Wick	45.6	35.3	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.0	40.9	39.4	2.11
Shields	46.0	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
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Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
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Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 in: and upwards, over Central Sweden; relatively high 29.7 in: and upwards over Central France.  
Lowest, 29.3 in: and less, in a small depression lying over the N. of Ireland; 29.4 in: and less in another disturbance lying over the Gulf of Genoa.  
Gradients moderate in NW. Barometer falling briskly in N. and SW. rising elsewhere.

## TEMPERATURE

Highest, 53° at Lisbon, 48° at Genoa, 47° at Berlin, and 46° at Havre Point. Frost and blizzard.  
Lowest, 5° at Haparanda, 6° at Helsingfors, 25° at Rode, 30° at Oxford and (Dungeness), and 31° at Aberdeen.

## WIND

Fresh or strong from the SE<sup>ly</sup> over the west coasts of our Islands and France.  
Light or moderate from the E<sup>ly</sup> over Scandinavia and Scotland.  
Variable or light N in the East of England; NW<sup>ly</sup> in the East of France.

## WEATHER

Fair over Scandinavia and the northern parts of our Islands.  
Bustle elsewhere, with fog over England and the south of Denmark and rain at several of our southern stations.  
Rain fell yesterday in many places, and thunder was heard at Valenai at night.

## SEA

Rough or rather so in the Bay of Biscay and also at the mouth of the Channel, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the depression over the west of Ireland another shallow disturbance is apparently lying off the south of that country. The two systems appear likely to travel in a south-westerly direction towards France, and unsettled rainy weather will probably extend to most of our southern stations.

## FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> Nov. 1887.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

E<sup>ly</sup> winds, moderate; fair generally.

1 SCOTLAND  
EAST

-----D<sup>ly</sup>-----D<sup>ly</sup>-----D<sup>ly</sup>-----

2 ENGLAND  
N.E.

Variable or E<sup>ly</sup> airs; dull, some fog.

3 ENGLAND  
EAST

Same as No 5

4 MIDLAND  
COUNTIES

Same as No 5

5 ENGLAND  
SOUTH

Variable breezes, finally E<sup>ly</sup>; dull, foggy, some rain.

6 SCOTLAND  
WEST

Same as No 0

7 ENGLAND  
N.W.

E<sup>ly</sup> and SE<sup>ly</sup> winds, freshening; cloudy, probably some rain.

8 ENGLAND  
S.W.

S<sup>ly</sup> and SE<sup>ly</sup> winds, strong; dull, some rain.

9 IRELAND  
NORTH

SE<sup>ly</sup> to E<sup>ly</sup> winds, strong; dull and some rain to fair.

10 IRELAND  
SOUTH

Variable breezes, finally E<sup>ly</sup>, changeable some showers.  
The south cone was hoisted last evening in districts 8, 9, 10, and part of 7.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudenes ...	29.55	41	40	E 2.	0	5	Holyhead ...	29.60	45	42	SSW 1	m	1
Sunburgh Head ...							Valencia ...						
Stornoway ...	29.56	42	42	E 2.	0	3	Scilly ...						
Aberdeen ...							Dungeness ...	29.55	44	43	ESE 3	0	2
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.56	44	44	SW 2.	0	2	Jersey ...	29.58	46	44	NNE 1	0	1
Mullaghmore ...							Rocheport ...	29.60	43	43	N 4	0	2
Belmullet ...	29.53	44	42	SSW 3	0								

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

The reports for yesterday (Sunday) morning showed a complex distribution of pressure. Reading, were as high as 30.0 ins. to 30.3 ins. and more, over the southern half of Russia, and about 30.0 ins. over the southwest part of the Spanish Peninsula; while in the extreme northwest and west of the British Islands, it varied from 29.6 ins. to 29.7 ins. The two high pressure areas were over western and the other over eastern Europe were separated by a band of low readings, which covered the Mediterranean, France, the North Sea and the Baltic and in which readings varied from about 29.3 ins. to 29.5 ins. — the lower value being reported in a depression over the Gulf of Genoa only. Thus while S. winds were chiefly prevalent over eastern and northern Europe, the winds over France and the British Islands, were very variable, but chiefly N.E. The weather was very variable (but quiet in the East), showers of cold rain, were reported in many parts of western Europe, and fog in several localities. Temperatures were low everywhere a hard frost prevailed over Russia and Finland, and slighter frost over Central France and the North of England, while the highest values did not exceed 60° even over the southwest parts of the Mediterranean and Algeria. The highest individual values reported were 59° both at Oran (Algeria) and Brindisi, 57° at Palermo and Lissina, 55° at Naples, 54° at Rome and Livorno, and 52° at Trieste. The lowest were 11° at Archangel, 12° at Kharmand, 14° at Ulaaborg, 19° at Khar Kow, 25° at Boda, 29° at Munich, 31° at Paris, 33° at Berlin, and 36° in London.

Later in the day there was little change, except that pressure began to increase decidedly in the northwest, followed by a brisk fall over Ireland; the distribution of pressure over western Europe consequently became very complex.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 13<sup>TH</sup> TO THE 19<sup>TH</sup> NOVEMBER 1887.

The weather of the past week has been dull, cold and unsettled, with frequent fog at the English stations and snow on the 18<sup>th</sup>.

During the 13<sup>th</sup> and 14<sup>th</sup> a well defined and somewhat deep depression travelled in a northeasterly direction from Portugal to Germany, occasioning heavy rain at many of the French stations, and showers in our Islands, with strong NE. winds in the Channel and southeast of England.

As the depression passed away an area of high pressure appeared over our western coasts, and in the course of the 15<sup>th</sup> and 16<sup>th</sup> an anticyclonic band travelled steadily eastward across Ireland and England to the Continent. Variable and E. winds and very cold foggy weather now prevailed in the South, but in Scotland where conditions were influenced by a depression in the far North, the wind was SW. and the weather dull and mild.

On the 17<sup>th</sup> and 18<sup>th</sup> when the anticyclone had travelled away to Central Europe, a depression of diminishing intensity advanced northeasterly from Portugal to the southeast of England, occasioning much fog over our southern districts, with rain and snow in many places. On the 19<sup>th</sup> the disturbance passed away to Norway, but further depressions appeared respectively over the Irish Sea, the Channel and the Bay of Biscay, so that although fresh N. breezes prevailed on our extreme West and southwest coasts, the wind elsewhere was light and very variable. The depression over the Irish Sea subsequently moved southwards while the other two dispersed, and at the close of the week the barometer was rising generally.

Temperatures have been unusually low, and on the nights of the 15<sup>th</sup> and 16<sup>th</sup> hard frosts were experienced over England, the lowest readings in the screen being 19° at Oxford and 20° at Loughborough.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 22<sup>nd</sup> November 1887.

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

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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.		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 ..	29.95	8	2	0	b	30.05	+18	0	-1	-5	N	2	b	*	13	3	Inc.	
Hernösand ...	30.13	1	2	0	b	30.17	+15	-1	-1	-7	2	0	b	*	21	2	-	
Stockholm ...	30.00	27	NE	4	b	30.05	+17	29	26	-3	NE	4	c	*	36	27	-	
Wisby ...	29.78	37	E	6	r	29.94	+23	34	33	-5	E	4	r	*	41	34	0.12	
Bodö ...	29.86	31	WSW	2	c	30.08	+24	27	26	+2	ESE	2	c	1	32	28	-	
Christiansund...	29.99	29	E	2	b	30.15	+29	32	28	+2	E	2	c	2	32	27	-	
Skudesnaes ...	29.91	37	ESE	2	b	30.01	+27	36	32	-5	ESE	1	c	2	41	31	-	
Christiania Fjord (Fæder)	29.91	30	NNE	6	c	30.04	+22	25	25	-9	NNE	6	b	1	34	21	-	
Skagen (The Scaw)	29.86	33	ESE	5	b c	29.91	+23	32	31	-6	ESE	5	o	3	39	30	0.04	
Faro ...	29.71	37	NE	6	o	29.78	+20	33	32	-6	NNE	6	c	*	45	?	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.85	44	SE	2	o	30.13	+46	40	38	-2	NE	1	o	3	45	39	0.15	
Stornoway ...	29.73	35	E	1	b	30.03	+45	39	38	+1	E	2	b	2	46	31	-	
Wick ...	29.75	44	NE	2	c	30.12	+50	42	40	+2	NE	4	b c	3	45	38	0.08	
Nairn ...	29.74	33	2	0	b c	30.02	+42	34	39	+6	E	2	o	1	40	32	0.01	
Aberdeen...	29.73	41	E	1	o p m	30.03	+40	43	41	+2	ESE	5	r q	6	46	30	0.47	
Leith ...	29.68	43	SE	1	c	29.86	+28	43	43	+7	NE	5	r	*	46	34	0.16	
Shields ...	29.62	45	E	1	o p	29.81	+23	45	44	+1	ESE	1	r	4	46	41	0.07	
Spurn Head ...	29.60	44	ESE	1	c	29.78	+22	45	44	+5	E	4	c	4	45	38	0.08	
Yôrk ...	29.62	39	NE	1	o	29.75	+17	41	41	+7	ESE	1	r f	*	42	34	0.03	
Loughborough	29.62	31	E	1	b	29.76	+17	32	32	0	NW	1	o f g	*	32	29	0.02	
GERMANY.																		
Ardoosau ...	29.65	41	ESE	3	a m	29.87	+30	43	41	+9	NE	3	b c	2	44	34	0.01	
Malin Head ...	29.59	45	E	4	c m	29.89	+44	46	45	+3	NE	4	o	3	46	34	-	
Mullaghmore ...	29.51	43	E	6	c m	29.86	+50	42	40	+1	ESE	4	c m	2	44	40	0.04	
Belmullet ...	29.49	42	E	5	o	29.88	+58	44	41	+5	ESE	2	b c	*	44	39	0.02	
Donaghadee ...	29.68	46	E	5	c	29.85	+36	46	44	+2	ESE	6	c	4	46	43	-	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.59	39	NE	2	b	29.83	+29	42	40	+8	NE	3	b c	*	43	33	-	
Liverpool (Bidston)	29.59	34	SE	2	o	29.79	+24	36	35	+4	ESE	1	f	1	36	31	-	
Holyhead ...	29.52	40	ESE	4	b c m	29.79	+32	38	38	+2	ESE	2	b c m	2	44	36	-	
Parsonstown ...	29.44	42	2	0	o	29.80	+49	38	37	-5	NE	1	o	*	43	36	0.03	
Valencia ...	29.41	42	W	1	o p	29.70	+36	43	41	0	NE	5	o g m	5	46	40	0.17	
Roche's Point...	29.39	39	E	1	b	29.60	+82	42	41	+3	ESE	4	d	4	46	38	0.85	
Pembroke ...	29.41	42	E	5	r	29.68	+80	39	38	-5	ESE	4	o m	3	45	39	0.62	
Scilly ...	29.34	47	NW	3	c	29.46	+11	47	45	0	E	7	o p	6	49	44	0.06	
Prawle Point ...	29.41	45	SE	6	r	29.57	+11	44	41	-2	E	7	c	5	47	37	0.22	
Jersey ...	29.46	42	SE	5	o g m	29.55	+01	38	37	-3	ESE	5	o g	4	43	38	0.39	
SPAIN & PORTUGAL.																		
Hurst Castle ...	29.53	41	SE	4	b	29.65	+11	40	40	+2	ESE	3	o m	2	46	35	0.03	
Dungeness ...	29.55	44	SW	3	c	29.63	+08	44	43	+14	ESE	4	r	2	44	29	0.05	
London ...	29.61	38	ESE	1	o f	29.68	+09	39	38	+7	ESE	2	r f g	*	39	31	0.07	
Oxford ...	29.62	30	N	1	b	29.73	+13	34	34	+4	NE	2	o g d	*	36	30	0.01	
Cambridge ...	29.60	32	2	0	o	29.76	+16	33	32	+1	2	0	o	*	34	28	-	
AFRICA.																		
Yarmouth ...	29.59	39	2	0	b c f	29.75	+18	43	42	+9	E	3	c g	4	43	31	0.05	
Cuxhaven ...	29.59	38	NE	5	o	29.68	+15	37	37	-3	NNE	6	o	*	?	36	0.02	
Berlin ...	29.43	37	2	0	r	29.55	+15	35	35	-1	S	1	r	*	?	?	0.16	
Wiesbaden ...	*	*	*	*	*	29.65	+20	42	41	+3	W	1	o	*	48	39	0.08	
Munich ...	29.58	35	W	2	o	29.70	+26	33	33	0	SW	3	b c	*	36	32	0.20	
ASIA.																		
The Elder ...	29.62	41	NE	1	f	29.75	+20	41	40	-1	ESE	3	c	3	45	41	-	
Brussels ...	*	*	*	*	*	29.70	+12	41	40	+1	ESE	1	o	*	42	40	0.12	
Cape Gris Nez...	29.58	38	SW	1	m	29.68	+12	40	40	-1	SE	3	f	1	46	36	-	
Paris ...	29.67	34	S	1	o	29.64	-01	32	32	-3	NE	3	o	*	36	32	-	
Brast ...	29.39	44	N	1	o	29.45	-02	42	40	-4	E	3	o	5	48	23	0.87	
AUSTRALIA.																		
Lorient ...	29.38	46	W	1	b	29.42	-08	40	39	-8	ESE	4	r	4	48	37	0.32	
Rocheport ...	29.55	45	S	8	o	29.47	-24	43	43	+4	SSE	7	r	2	48	34	0.20	
Belfort ...	29.71	35	N	1	o	29.67	*	31	30	*	NE	1	b	*	36	?	0.39	
Lyons ...	29.70	36	W	1	c	29.64	-03	32	32	-6	N	1	o	*	41	28	-	
Nice ...	29.90	45	NE	3	b c	29.74	+37	46	40	+2	E	3	o	0	?	32	-	
EUROPE.																		
Perpignan ...	29.62	42	E	1	b	29.49	-24	38	37	-6	E	3	o	*	38	35	-	
Biarritz ...	29.52	52	W	4	o	29.53	-14	51	45	+5	WSW	7	b	2	55	43	-	
AFRICA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.69	54	WSW	5	b	29.58	-27	49	47	-4	SSE	3	o	5	59	46	0.28	

For Explanation of Columns, see p. d.

† Received too late for insertion in charts



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 22<sup>nd</sup> November,

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

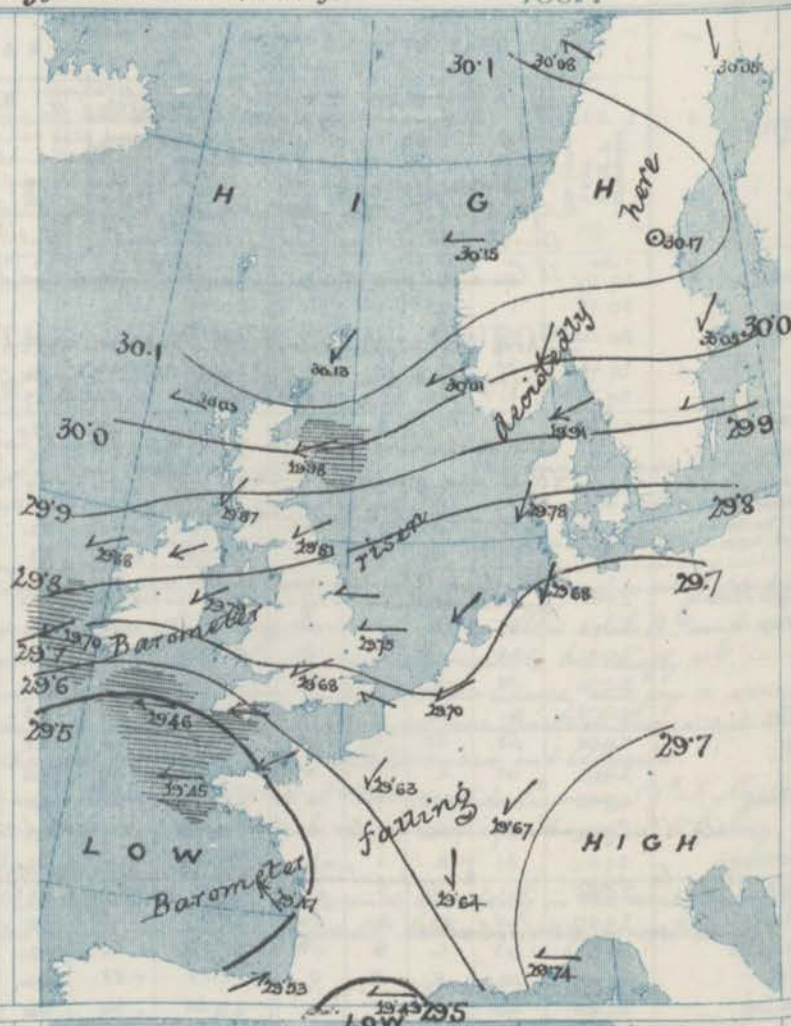
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; \* — forces 8 to 10;  
 — forces 5 to 7; —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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



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

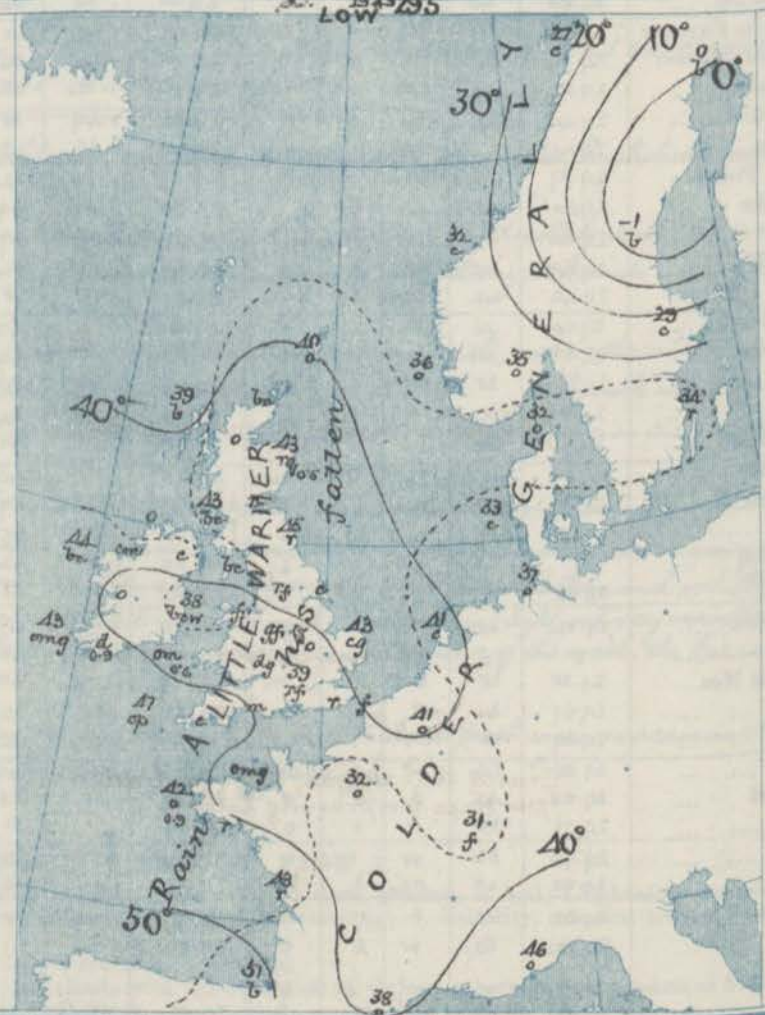
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	38.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.78
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.0	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, 30.1 ins. and more, over the Fjellands, Norway and Central Sweden.  
 Lowest, 29.7 ins. and more, over Switzerland and the north of Italy.  
 Gradients moderate for E. winds over the British Isles and North Sea. Very variable on the Continent.  
 Barometer falling in the southwest of France and over Spain, rising elsewhere.

## TEMPERATURE

Highest, 51° at Biarritz, 47° at Scilly, 46° in the north of Ireland, 45° on our north east coast.  
 Lowest, -1° F at Harbin, 0° at Haparanda, +25° at Tander, 27° at Bodo, 31° at Munich, 32° at Lyons, the Seine, and Dordogne, +33° at Paris.  
 It has risen over the greater part of England and Scotland, fallen on the eastern shore of the North Sea.

## WIND

Strong NE<sup>2</sup> in the Skager Rack, Denmark, and at the mouth of the Elbe.  
 Moderate gale from E. at mouth of Channel, from SE. at Rochefort, and from WSW. at Biarritz. Moderate to fresh from NE. over the British Isles generally.

## WEATHER

Fine in the extreme northwest and west, but hazy in places.  
 B. and r. in the north east, east, and south east, also at some southwestern stations and in the west of France.  
 Fog prevail at many inland stations.

## SEA

Rough at Aberdeen and at the mouth of the Channel - moderate along the east coast of England and Ireland, and at Dorchester, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the northern anticyclone continues to spread the fog will probably become less dense over England, and the weather be drier. Temperature, however, will probably decrease - especially at our inland stations tonight. E<sup>2</sup> winds are still probable.

## FORECASTS

for the 24 hours ending at NOON on 23<sup>rd</sup> Nov<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NE <sup>2</sup> winds, moderate; rainy to fair.
1	SCOTLAND EAST	D° - - - - D° - - - - D° - - - -
2	ENGLAND N.E.	D° - - - - D° - - - - D° - - - -
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	E <sup>2</sup> and NE <sup>2</sup> winds, foggy and wet, perhaps improving later.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NE <sup>2</sup> winds, moderate; fair as a whole.
7	ENGLAND N.W.	D° - - - - D° - - - - D° - - - -
8	ENGLAND S.W.	E <sup>2</sup> winds, strong to moderate; rainy gloomy, unsettled.
9	IRELAND NORTH	NE <sup>2</sup> winds, moderate; rainy in the east, fair in the west.
10	IRELAND SOUTH	D° - - - - D° - - - - D° - - - -

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeosnaes ...	29.82	41	38	NE 2	0	3	Holyhead ...	29.47	43	40	E 3	bm	2
Sumburgh Head ...	29.75	43	42	SE 1	c	3	Valencia ...	29.36	45	43	E 1	op	1
Stornoway ...	29.65	46	45	E 1	bc	2	Scilly ...	29.35	48	45	NW 3	c	4
Aberdeen ...	29.67	39	38	2 0	cpm	1	Dungewess ...	29.45	58	38	NW 2	b	1
Shields ...	29.60	46	43	E 3	0	3	London ...	29.37	39	38	ESE 1	b	3
Ardrossan ...	29.59	44	41	E 3	bc	2	Yarmouth ...	29.58	39	38	ESE 1	b	3
Malin Head ...	29.48	44	43	ESE 4	bc	3	Jersey ...	29.49	41	40	SE 5	0	4
Mullaghmore ...	29.41	44	42	E 6	opm	4	Rochefort ...	29.60	48	45	SSE 7	0	2
Belmullet ...	29.37	44	42	ESE 4	0	2							

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

The reports for yesterday morning showed that the high pressure area over Russia was giving way, but a new one appeared to be forming over Scandinavia, while relatively high readings were also reported over Spain. Readings were lowest in a small depression which had advanced to the west of Ireland during Sunday night, but other shallow disturbances were found in a large area of low pressure which lay over Central Europe, Italy, and the eastern parts of the Mediterranean. The wind was moderate from N. or NE. over the Baltic and from E. over Scandinavia and Scotland, but on the west coasts of our islands and France it was fresh or strong from the SE<sup>ast</sup>, and in the south of France strong from NW; over Central Europe light variable airs were reported. The weather was fine over Algeria, Spain, Scandinavia, and the north of our islands, but cloudy or overcast elsewhere, with fog over England and the south of Denmark, rain in many other localities and a thunderstorm at Malta. Temperature had risen a few degrees in Ireland and the west of England, as well as over Germany, Austria, the Netherlands, and the south of Russia, but fallen elsewhere; readings ranged from 50° and upwards over Algeria, Spain, and Italy, to 32° or less over the whole of Northern Europe and to 10° or less over Lapland. The highest individual readings were 62° at Malta, 61° at Oran, 59° at Baidari, 58° at Nemours, 56° at Algiers and 55° at Sfax; the lowest were 5° at Haparanda, 6° at Hemisland, 11° at Uleaborg and Kuopio, 23° at Archangel, 25° at Bodö, and 26° at Moscow.

In the course of the day the depression over the west of Ireland moved southwards towards the west of France, while the anticyclone over Scandinavia extended eastwards. Fog continued to prevail in many parts of England, but on our west coasts some improvement in the weather was reported.

### 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 23<sup>rd</sup> NOVEMBER 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.	Sun. (0 to 2.)	Weather.	Sun. (0 to 2.)	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 ..	30.23	-5	Z	0	b	30.10	+ .05	22	21	+ 22	S	2	b	*	?	-6	—	—		
Hernösand ...	30.30	4	Z	0	b	30.30	+ .13	-3	-3	- 2	Z	0	b	*	14	-3	—	—		
Stockholm ...	30.12	31	ENE	4	o	30.19	+ .14	28	25	- 1	NNE	4	b	*	32	19	—	—		
Visby ...	29.93	33	E	6	s	29.98	+ .04	31	31	- 3	E	4	s	*	36	31	0.20	—		
Bodö ...	30.07	31	SW	5	s	29.91	- .17	32	31	+ 5	ESE	5	o	3	32	23	—	—		
Christiansund...	30.22	29	ESE	1	b	30.09	- .06	28	27	- 4	ESE	1	b	3	32	25	—	—		
Skudesnaes ...	30.11	34	E	2	b	30.15	+ .14	26	23	- 10	Z	0	b	2	38	?	—	—		
Christiania Fjord (Fæder)	30.10	26	NNE	6	c	30.18	+ .14	25	24	0	NNE	5	b	1	27	21	—	—		
Skagen (The Scaw)	29.97	32	ENE	6	o	30.06	+ .15	33	31	+ 1	E	5	o	4	29	30	—	—		
Fanø ...	29.90	33	N	6	b	29.95	+ .17	33	32	0	N	4	o	*	34	32	—	—		
BRITISH ISLANDS.																				
Sumburgh Head	30.24	34	NNE	2	c	30.12	- .01	35	34	- 5	Z	0	o	1	41	32	—	—		
Stornoway ...	30.24	39	SE	4	b	30.15	+ .12	35	34	- 4	S	3	b	3	44	31	—	—		
Wick ...	30.25	38	NE	4	b	30.15	+ .03	30	29	- 12	N	1	b	0	43	29	—	—		
Nairn ...	30.24	41	ENE	4	c	30.19	+ .17	33	32	- 7	SW	1	c	1	42	33	0.06	—		
Aberdeen...	30.19	39	NE	5	c	30.18	+ .15	32	33	- 9	NW	2	b	3	45	34	0.04	—		
Leith ...	30.14	40	NE	2	o	30.17	+ .31	37	35	- 6	NE	1	b	*	43	36	0.12	—		
Shields ...	30.06	42	NE	4	c	30.11	+ .30	42	38	- 2	NE	3	o	4	45	38	0.26	—		
Spurn Head ...	29.98	42	ENE	5	c	30.03	+ .25	41	39	- 4	NE	5	cp	5	45	38	0.01	—		
York ...	30.00	41	NNE	3	r	30.09	+ .34	34	34	- 7	N	1	b	*	45	34	0.05	—		
Loughborough	29.92	40	NE	3	o	30.06	+ .30	37	35	+ 5	NNE	2	om	*	44	32	0.03	—		
Ardrossan ...	30.11	42	NE	5	o	30.21	+ .34	32	30	- 4	E	1	b	1	43	31	—	—		
Malin Head ...	30.11	44	ENE	5	c	30.20	+ .31	29	38	- 7	E	2	b	1	46	39	0.01	—		
Mullaghmore ...	30.05	45	ENE	6	om	30.21	+ .35	37	36	- 5	E	2	b	2	47	35	—	—		
Belmullet ...	30.07	45	E	5	o	30.22	+ .34	36	35	- 8	ESE	1	b	*	48	36	0.02	—		
Donaghadee ...	30.13	44	ESE	8	r	30.19	+ .34	40	38	- 6	NE	7	b	5	48	36	0.01	—		
Barrow-in-Furness	30.00	42	NE	3	o	30.13	+ .30	36	35	- 6	NNE	3	c	*	45	35	0.04	—		
Liverpool (Bidston)	29.97	42	ENE	3	o	30.12	+ .33	37	35	+ 1	NE	1	c	3	43	36	0.03	—		
Holyhead ...	29.95	45	ENE	5	mq	30.13	+ .34	42	39	+ 4	ENE	4	o	4	46	38	0.01	—		
Parsonstown ...	30.00	43	N	1	o	30.19	+ .39	33	32	- 5	Z	0	b	*	45	33	—	—		
Valencia ...	29.96	46	NE	4	og	30.13	+ .42	42	40	- 1	NE	4	b	4	46	42	—	—		
Roche's Point...	29.88	45	ENE	4	c	30.09	+ .43	40	39	- 2	NE	3	b	4	46	39	—	—		
Pembroke ...	29.86	42	ENE	3	c	30.05	+ .37	38	37	- 1	NE	4	b	2	44	37	0.03	—		
Scilly ...	29.69	46	ENE	6	om	29.94	+ .48	44	41	- 3	ENE	6	c	6	48	43	0.13	—		
Prawle Point ...	29.73	44	ENE	6	r	29.94	+ .37	39	37	- 5	NE	6	cu	5	47	36	0.20	—		
Jersey ...	29.67	42	ENE	3	o	29.78	+ .23	43	41	+ 5	NE	4	cp	3	43	37	0.09	—		
Hurst Castle ...	29.74	44	ENE	5	c	29.93	+ .28	40	40	0	NE	6	c	3	44	39	0.17	—		
Dungeness ...	29.69	45	E	7	o	29.87	+ .24	42	41	- 2	NE	4	r	3	45	39	0.21	—		
London ...	29.80	42	ENE	4	or	29.96	+ .28	40	39	+ 1	NE	3	od	*	45	38	0.12	—		
Oxford ...	29.89	40	NE	5	o	30.02	+ .29	37	35	+ 3	NNE	3	c	*	42	34	0.03	—		
Cambridge ...	29.85	38	N	2	c	30.00	+ .24	39	38	+ 6	N	2	o	*	45	31	0.10	—		
Yarmouth ...	29.82	42	E	6	c	29.94	+ .19	42	40	- 1	ENE	5	c	5	44	40	0.11	—		
Cuxhaven ...	29.77	36	NE	4	o	29.88	+ .20	38	38	+ 1	NE	3	r	*	38	36	0.06	—		
Berlin ...	29.73	27	W	1	f	29.91	+ .36	38	37	+ 3	W	1	f	*	38	?	0.04	—		
Wiesbaden ...	*	*	*	*	*	29.91	+ .26	41	39	- 4	Z	0	o	*	45	37	—	—		
Munich ...	29.79	29	NE	1	c	29.97	+ .27	35	35	+ 2	SE	4	o	*	39	28	—	—		
FRANCE & NETHERLANDS.																				
The Helder ...	29.84	29	NE	4	c	29.92	+ .17	39	38	- 2	NE	3	r	3	41	37	0.12	—		
Brussels ...	*	*	*	*	*	29.88	+ .18	37	36	- 4	S	3	m	*	41	36	0.04	—		
Cape Gris Nez...	29.73	37	E	7	o	29.85	+ .17	38	37	- 2	E	5	o	4	43	36	0.24	—		
Paris ...	29.66	39	E	3	o	29.83	+ .20	34	38	+ 7	SW	3	o	*	44	37	0.04	—		
Brest ...	29.67	39	NE	4	o	29.91	+ .46	39	37	- 3	NE	4	b	4	38	36	—	—		
Lorient ...	29.62	38	ESE	5	f	29.80	+ .38	41	39	+ 1	ENE	4	b	2	46	36	0.04	—		
Rochefort ...	29.66	46	SW	4	o	29.78	+ .31	39	38	- 4	ENE	4	o	2	48	34	0.12	—		
Belfort ...	29.76	37	NE	3	o	29.91	+ .24	32	31	+ 1	NE	1	f	*	39	37	0.08	—		
Lyons ...	29.76	37	W	1	o	29.90	+ .26	31	31	- 1	N	1	b	*	39	34	0.63	—		
Nice ...	29.89	45	E	3	o	29.95	+ .21	42	46	+ 2	ENE	3	c	3	32	43	0.16	—		
Perpignan ...	29.73	45	W	3	c	29.77	+ .28	44	42	+ 6	NE	3	o	*	38	36	—	—		
Biarritz ...	29.66	50	WSW	3	b	29.57	+ .04	43	40	- 8	E	4	o	2	54	39	—	—		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.14	46	NNE	1	r	29.23	- .35	51	48	+ 2	SW	8	c	8	37	45	2.63	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 23<sup>rd</sup> NOVEMBER

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.

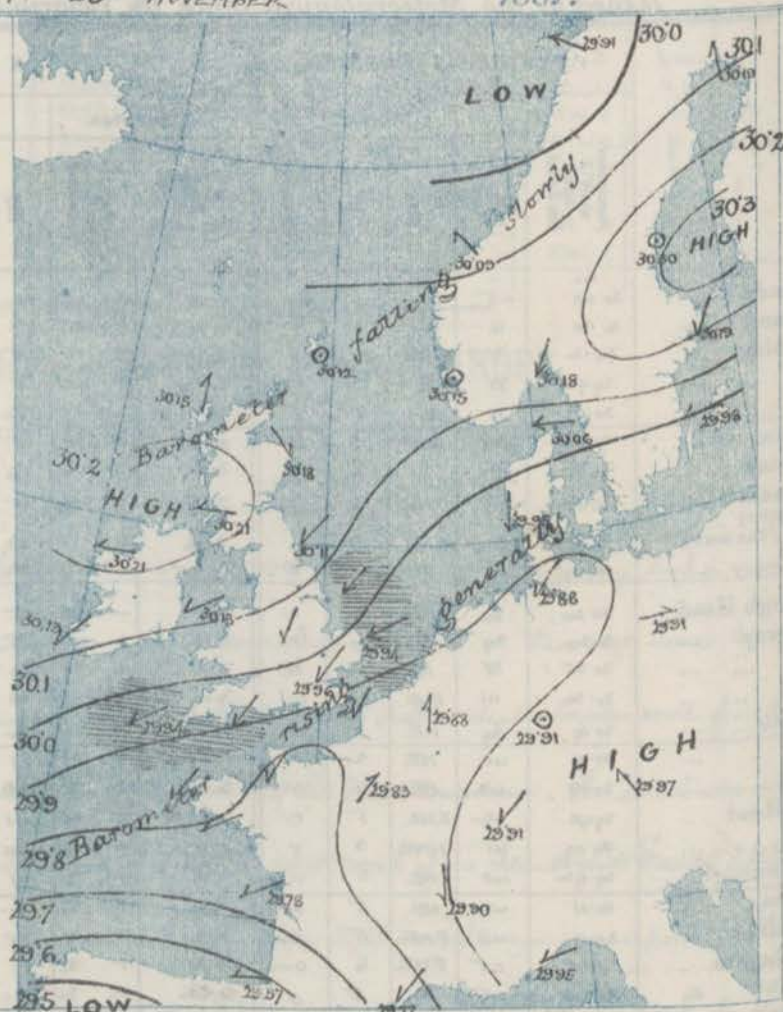
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

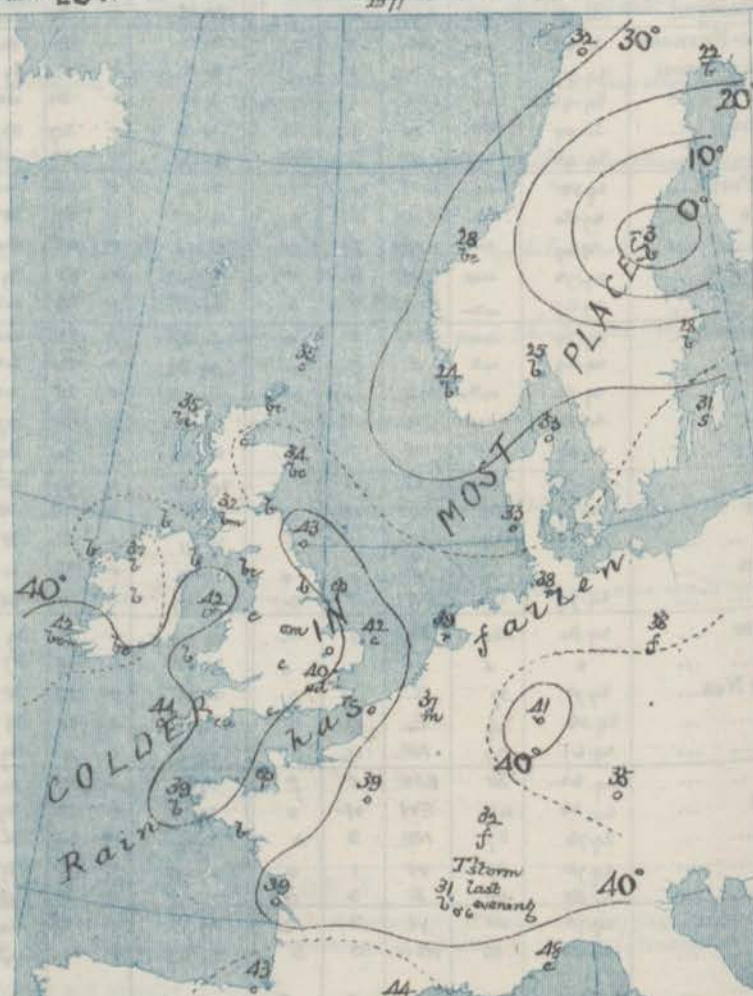
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.0	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.2	2.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.8	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.8	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.8	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.58
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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. at Hovossand, and 30.2 ins. and upwards over the northwest of our Islands, the two areas being connected by a "col" which stretches across Norway, the North Sea and Scotland.  
Lowest 29.5 ins. and less in a depression lying over Portugal. Shallow disturbances are also lying over Central France and North Germany.  
Barometer falling in Scotland and West of Norway but rising elsewhere.

## TEMPERATURE

Highest 51° at Lisbon, 48° at Nice, 44° at Lillo and Perpignan and 43° at Jersey and Biarritz.  
Lowest - 3° at Hovossand, 22° at Haparanda, 25° at Haarder, 36° at Skudenes, 28° at Stockholm and Christiansund, 30° at St. Petersburg.  
Frost occurred last night over the northern parts of Great Britain.

## WIND

Variable W. 3-4 in the North of Scotland; SE 4 in the northwest of Norway.  
E 3 or NE 3 elsewhere; moderate in force generally, but strong at most of the Channel stations.  
A SW gale is reported at Lisbon.

## WEATHER

Rainy over the Netherlands and extreme southeast of England, and dull in Germany, Denmark and the South of France.  
Fair or fine in most other localities.  
Rain fell yesterday in nearly all parts of the United Kingdom.

## SEA

Rough at the mouth of the Channel, and rather rough off the East of England as well as at Donaghadee, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclonic system in the North appears to be moving slowly southwards, and depressions are beginning to approach the Norwegian coast from the westward. These movements are likely to continue.

A well defined depression has appeared over Portugal during the night, but the barometer still rises even in the West of France, and there are at present no indications of the advance of this disturbance towards our coasts.

## FORECASTS

for the 24 hours ending at NOON on 27<sup>th</sup> November 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>ly</sup> winds, light or moderate; fair to dull and some rain.
1	SCOTLAND EAST	Light breezes, chiefly N <sup>ly</sup> ; fair generally.
2	ENGLAND N.E.	NE <sup>ly</sup> to N <sup>ly</sup> winds, moderate; fair generally, but some showers.
3	ENGLAND EAST	Same as N <sup>o</sup> 5.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 5.
5	ENGLAND SOUTH	NE <sup>ly</sup> winds, moderate or fresh; cloudy generally, with some rain.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N <sup>o</sup> 1.
7	ENGLAND N.W.	NE <sup>ly</sup> to N <sup>ly</sup> winds, moderate; fair generally.
8	ENGLAND S.W.	NE <sup>ly</sup> winds, fresh; fair generally, but some showers.
9	IRELAND NORTH	Same as N <sup>o</sup> 7.
10	IRELAND SOUTH	Same as N <sup>o</sup> 7.
WARNINGS		NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wet.	Sec.		Bar.	Dry.	Wet.	Wind.	Wet.	Sec.
Skudesnaes ...	30.02	38	33	E 2	c	2	Holyhead ...	29.86	45	45	ENE 4	r m	3
Sumburgh Head ...	30.21	36	33	NNE 2	o	3	Valencia ...	29.86	46	43	NE 5	cm	5
Stornoway ...	30.18	44	42	E 4	b	4	Scilly ...	29.62	47	45	ENE 7	of	6
Aberdeen ...	30.13	43	39	NE 5	b c	6	Dungeness ...	29.68	44	42	ESE 5	o	3
Shields ...	29.97	44	42	ENE 4	r	5	London ...	29.76	45	43	E 3	om	*
Ardrossan ...	30.00	42	40	NE 6	c	3	Yarmouth ...	29.79	43	42	E 5	od	5
Malin Head ...	29.98	45	43	ENE 5	o	5	Jersey ...	29.91	40	39	ENE 14	o	3
Mullaghmore ...	29.97	46	44	NE 6	cm	4	Rochefort ...	29.52	47	46	W 1	o	2
Belmullet ...	29.99	48	44	ENE 3	b	*							

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's observations showed that pressure was increasing over the whole of northern Europe, and also over the Mediterranean, and that readings varied from between 30.00 ins. and 30.15 ins. at all the most northern stations, and from about the same values over the southeastern parts of the Mediterranean, to somewhat below 29.5 ins. over the Bay of Biscay and to between 29.5 ins. and 29.7 ins. in a shallow disturbance lying over Germany.

E<sup>ly</sup> and NE<sup>ly</sup> winds of considerable force had become prevalent over the whole of the British Isles, North Sea and Baltic, and were accompanied by rain in some places, while S<sup>ly</sup> and SW<sup>ly</sup> breezes prevailed over the Mediterranean and Spain, with somewhat showery weather.

In the West of France a good deal of rain fell. Temperature had fallen again in the North, where it had become very low, while it remained at a little above 60° over the southern parts of the Mediterranean.

The highest individual values were 64° at Nemours (Algeria) 62° at Cagliari, 60° at Palermo, 59° at Malta, 55° at Brindisi, 52° at Croissette, 47° at Scilly and 44° at Belmullet and Shields; the lowest were minus 1° at Hernosand, Zero (0°) at Haparanda, 4° at Skopio, 13° at Uleaborg, 21° at Archangel and Vango.

During the day the E<sup>ly</sup> wind continued to blow freshly (in some places strongly), and the weather remained wet and unsettled at many stations. In others however, the air became drier. At night a heavy gale occurred at Lisbon.

## 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 24<sup>th</sup> November* 1887.  
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

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STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 29° P. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 29° P. 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 ...	29.54	27	W	2	0	29.36	-74	31	28	+9	W	8	0	*	?	-7	-	
Hernösand ...	30.01	19	SW	2	0	29.38	-72	27	26	+30	SW	6	0	*	?	-4	0.04	
Stockholm ...	30.12	26	W	0	0	29.41	-28	31	29	+3	S	2	0	*	34	25	-	
Wisby ...	30.04	30	NE	4	0	29.99	+01	33	32	+2	SSW	2	0	*	37	28	-	
Bodö ...	29.42	33	WSW	4	0	28.88	-1.03	41	37	+9	SW	6	0	3	?	30	-	
Christiansund...	29.59	39	SW	8	0	29.17	-0.92	45	40	+17	SW	8	0	5	45	?	-	
Skudesnaes ...	30.03	35	SSW	6	0	29.70	-45	42	39	+16	E	8	0	5	?	26	-	
Christiania Fjord (Færd)	30.08	27	NNE	2	0	29.52	-36	36	34	+11	W	7	0	2	?	23	-	
Skagen (The Scaw)	30.05	33	W	0	0	29.40	-16	34	33	+1	SW	3	0	2	34	32	-	
Fanø ...	30.03	35	NNE	2	0	29.97	+02	36	35	+3	W	0	0	*	36	33	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.78	40	WSW	5	0	29.31	-81	47	45	+12	SW	5	0	5	47	35	0.03	
Stornoway ...	29.84	45	SW	5	0	29.36	-79	49	49	+14	SW	7	0	6	49	25	0.05	
Wick ...	29.89	38	S	3	0	29.39	-76	42	42	+12	S	5	0	3	45	29	0.06	
Nairn ...	29.94	37	SW	2	0	29.53	-66	45	41	+12	SW	5	0	4	45	31	-	
Aberdeen...	30.02	34	WSW	3	0	29.61	-54	36	34	+2	SW	4	0	1	38	33	-	
Leith ...	30.08	35	W	1	0	29.77	-40	39	34	+2	W	3	0	3	39	34	-	
Shields ...	30.09	42	NNE	1	0	29.89	-22	31	30	-12	SW	2	0	3	43	29	-	
Spurn Head ...	30.06	40	ESE	2	0	29.94	-09	37	35	-4	NNE	3	0	4	42	35	-	
York ...	30.10	39	N	1	0	29.95	-14	31	30	-3	S	1	0	*	42	29	0.01	
Loughborough	30.08	36	NE	1	0	29.98	-08	33	32	-4	WSW	1	0	*	44	31	-	
Ardrossan ...	30.11	34	E	1	0	29.79	-42	43	40	+11	SSW	5	0	4	43	30	-	
Malin Head ...	30.08	39	SSW	3	0	29.78	-62	42	41	+3	SSW	5	0	4	42	36	-	
Mullaghmore ...	30.13	36	S	1	0	29.83	-38	40	38	+3	SSW	5	0	3	47	32	-	
Belmullet ...	30.13	38	S	1	0	29.80	-42	47	45	+11	SW	5	0	*	47	35	-	
Donaghadee ...	30.14	34	SW	3	0	29.88	-31	33	31	-7	WSW	3	0	1	43	29	-	
Barrow-in-Farress	30.11	36	NE	1	0	29.93	-20	38	35	+2	SSW	4	0	*	43	32	-	
Liverpool (Bidston)	30.10	37	NE	1	0	29.96	-16	32	30	-5	S	2	0	2	40	32	-	
Holyhead ...	30.10	39	ENE	2	0	29.94	-19	34	33	-8	SSW	1	0	1	44	34	-	
Parsonstown ...	30.15	32	W	0	0	29.95	-24	23	23	-10	W	0	0	*	42	21	-	
Valencia ...	30.13	39	NNE	2	0	29.97	-16	37	35	-5	E	2	0	2	47	33	-	
Roche's Point...	30.08	39	NE	3	0	29.95	-14	32	31	-8	NNE	3	0	3	46	31	-	
Pembroke ...	30.06	38	NE	3	0	29.95	-10	34	33	-4	NE	2	0	1	42	34	-	
Seilly ...	29.95	44	ENE	5	0	29.90	-04	43	40	-1	NE	4	0	3	45	41	-	
Prawle Point ...	29.96	42	NE	5	0	29.90	-04	38	37	-1	ENE	3	0	2	43	34	-	
Jersey ...	29.87	44	NE	4	0	29.89	+05	44	41	+1	ENE	3	0	3	45	42	0.02	
Hurst Castle ...	29.98	42	NE	5	0	29.91	-02	38	37	-2	NNE	4	0	3	44	35	-	
Dungeness ...	29.92	44	ENE	5	0	29.87	-00	42	40	0	ESE	4	0	4	46	41	0.05	
London ...	30.01	39	NE	2	0	29.93	-03	37	36	-3	NE	2	0	*	43	35	-	
Oxford ...	30.07	38	NE	3	0	29.97	-05	29	29	-8	NE	1	0	*	42	29	-	
Cambridge ...	30.05	38	N	1	0	29.95	-05	33	32	-6	N	1	0	*	44	28	0.01	
Yarmouth ...	29.99	42	ENE	5	0	29.93	-01	41	40	-1	ENE	2	0	3	43	39	0.05	
Cuxhaven ...	29.96	37	ENE	2	0	30.00	+12	39	39	+1	SSW	1	0	*	39	37	-	
Berlin ...	30.01	36	W	0	0	30.03	+12	36	35	-2	SW	1	0	*	38	36	0.28	
Wiesbaden ...	*	*	*	*	*	29.93	+02	35	32	-8	W	0	0	*	45	32	-	
Munich ...	29.97	36	NE	3	0	29.93	-04	33	33	-2	SE	2	0	*	41	32	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.01	38	NE	1	0	29.95	+04	38	37	-1	E	1	0	*	41	?	-	
Brussels ...	*	*	*	*	*	29.91	+03	37	37	0	E	4	0	*	40	36	-	
Cape Gris Nez...	29.95	34	ENE	7	0	29.87	+02	35	35	-3	ESE	4	0	4	45	34	-	
Paris ...	29.89	39	NE	3	0	29.78	-05	40	38	+1	NE	1	0	*	45	?	0.04	
Brest ...	29.81	43	E	5	0	29.86	-05	41	39	+2	NE	4	0	4	50	28	-	
Lorient ...	29.79	41	NE	5	0	29.76	-04	41	41	0	ENE	5	0	2	45	37	-	
Rochefort ...	29.71	46	ENE	7	0	29.76	-02	44	43	+5	E	4	0	2	48	39	0.28	
Belfort ...	29.92	41	N	3	0	29.88	-03	40	39	+8	ENE	1	0	*	42	29	0.32	
Lyons ...	29.87	37	N	1	0	29.81	-09	40	39	+9	N	1	0	*	?	?	0.04	
Nice ...	29.93	34	NE	1	0	29.95	-00	37	47	+3	ENE	1	0	*	35	46	-	
Perpignan ...	29.65	53	SE	4	0	29.79	+02	42	42	-2	SE	3	0	*	59	42	-	
Biarritz ...	29.56	45	E	4	0	29.71	+14	54	47	+11	SW	4	0	*	50	43	0.04	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.45	36	SW	8	0	29.60	+34	53	51	+2	SE	4	0	6	57	?	0.08	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 24<sup>th</sup> November.

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.

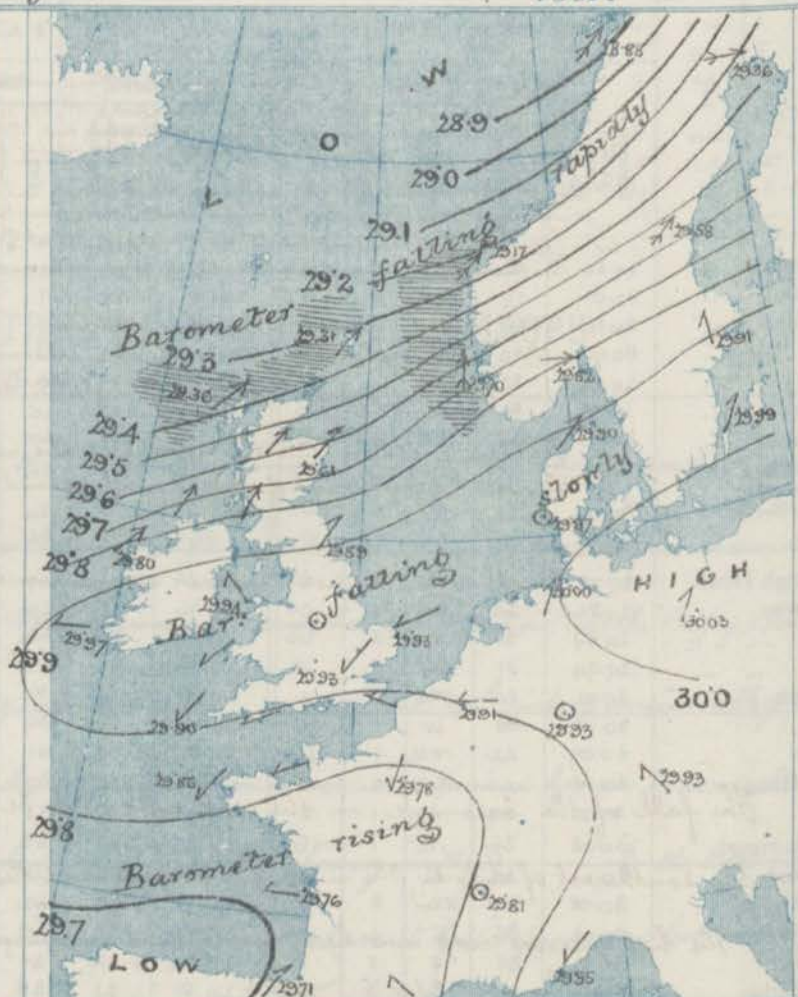
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.895
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.06
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1868—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. and more over Germany, 29.9 ins. and more in a ridge over the North Sea, England, and the south of Ireland.  
 Lowest, 28.8 ins. at Rye, 29.3 ins. at Seaburgh 11<sup>th</sup>, 29.8 ins. at Belmullet.  
 Gradients steep in north, slight elsewhere: Barometer falling fast in north, rising over south of France and Spanish Peninsula.

## TEMPERATURE

Highest, 54° at Biarritz, 53° at Lafor, 51° at Nice, and 41° at Buegeness.  
 Lowest, 49° at Stornoway, 47° at Belmullet and Seaburgh 11<sup>th</sup>, and 45° at Christiansund.  
 The thermometer has risen rapidly in the north, as much as 30° at Helsingfors and 14° at Stornoway— since yesterday.

## WIND

SW<sup>ly</sup> fresh to gale at the northern stations.  
 E. and NE<sup>ly</sup>, moderate at our southern stations and the west of France.  
 Very light and variable over England, light SE to SW over Germany.

## WEATHER

Drill and showery in the north and also over France.  
 Dry over the greater part of Ireland, England and the North Sea, but with fog locally at several inland stations.

## SEA

Rough in the far north, moderate at several western and southern stations, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer in the north appears to be spreading quickly to the southwards, while over Spain and the southwest of France the mercury is rising and the depressions noticed in those regions are apparently filling up. The high pressure "ridge" now lying over Ireland is consequently moving southwards steadily, and SW<sup>ly</sup> winds are likely to become very general with milder weather— fair at first over England, but afterwards showery in most places.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> Nov<sup>r</sup> 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. and SW <sup>ly</sup> gales or strong winds; squally, showery.	6 SCOTLAND WEST	Same as No 0
1 SCOTLAND EAST	SW <sup>ly</sup> winds, fresh or strong; fair as a whole.	7 ENGLAND N. W.	SW <sup>ly</sup> winds, fresh or strong; showery.
2 ENGLAND N. E.	----- D° ----- D° ----- D° -----	8 ENGLAND S. W.	Same as No 5
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	SW <sup>ly</sup> and S <sup>ly</sup> winds, strong to gale in the west, fresh in the east; sun, rain.
4 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	----- D° ----- D° ----- D° -----
5 ENGLAND SOUTH	Varying airs, dull, foggy, damp, perhaps some bright intervals.	WARNINGS	
		The South Cone was hoisted yesterday afternoon in district 0 and in parts of 6 and 10 this morning.	

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



# YESTERDAY'S 2 P.M. REPORTS

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnäs	30.13	35	32	SSW 1	0	2	Holyhead	30.06	43	40	NE 3	bc	3
Sumburgh Head	29.92	39	36	W 4	0	3	Valencia	30.13	46	42	NE 3	bm	4
Stornoway	29.99	42	41	SW 5	0	4	Scilly	29.95	45	41	ESE 6	0	6
Aberdeen	30.09	39	35	WSW 1	bc	2	Dungeness	29.91	45	42	ESE 5	c	4
Shields	30.08	43	38	NE 2	0	4	London	29.99	43	40	NE 3	c	5
Ardrossan	30.14	39	36	E 1	6	1	Yarmouth	29.98	43	40	NE 5	c	5
Malin Head	30.13	40	39	S 3	6	1	Jersey	29.87	45	43	ESE 4	c	4
Mullaghmore	30.15	45	39	W 0	bc	0	Rocheport	29.73	45	45	ESE 5	0	2
Helmslet	30.18	43	40	S 1	6	*							

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

The reports for yesterday morning showed that while the highest readings of all, 30.2 to 30.3 in., were reported over Sweden, a long band of high pressure in which readings exceeded 30.1 in., extended in a WSW<sup>2</sup> direction from the White Sea to the extreme northwest of our Islands. Over Turkey there was another high pressure system with similar readings, the two areas being separated by a trough of low readings lying over Central and Southwestern Europe. The lowest pressures, 29.5 in. and less, were reported in a depression over Portugal, but the barometer was beginning to fall somewhat briskly in the north of Scandinavia. The wind was light S<sup>2</sup> in the northwest of Scotland and SE<sup>2</sup> in the northwest of Norway, but over the Baltic, Denmark, the south of our Islands and the greater part of France it was moderate to strong from E. or NE, while in Algeria, Spain, and South Italy, it varied between SE and SW. Rain was falling over North Germany, the Netherlands, and the southeast of England as well as at some of the Austrian and Russian stations, and dull weather was reported over Central and Southern Europe generally; elsewhere conditions were mostly fair. Temperature had risen a little over Southern Europe, but fallen elsewhere, readings ranged from 60° and upwards over Algeria, and the southern parts of Spain and Italy to 5° less over Iceland and Central Sweden. The gradation between these two regions was, however, not very regular, for while the northern area of frost was bounded by a line running from Moscow to the Shetlands another such area was reported over Central France. The highest individual readings were 66° at Lhas, 64° at Algiers, 63° at Nemours and Malta, 62° at Ovan, La Calle and Palma, and 61° at Cagliari; the lowest were -3° at Harnsand, -1° at Uleaborg, +4° at Haparanda, 7° at Kuopio, 13° at Helsingfors, 24° at Archangel. The lowest readings over France were 27° at Clermont, 31° at Lyons, and 32° at Belfort.

In the course of the day the anticyclonic band over Northern Europe moved southwards and a brisk fall of the barometer continued at all the extreme northern stations, while the wind there began to freshen from the SW<sup>2</sup>. In other districts little change was observed beyond a steady rise of the barometer and some improvement in the weather.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Friday 25<sup>th</sup> November

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.)	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.)	Force. (0 to 12.)			Max.	Min.	
<b>SCANDINAVIA.</b>																			
Haparanda ...	29.11	34	SW	6	7	7	29.04	- .82	34	33	+ .8	W	4	0	*	*	34	27	0.85
Hernösand ...	29.26	32	SSW	6	0	0	29.23	- .35	37	35	+ 10	SSW	2	0	*	*	37	18	-
Stockholm ...	29.68	33	SSW	2	6	6	29.56	- .85	37	35	+ 6	S	4	0	*	*	37	30	-
Wisby ...	29.84	36	SW	6	0	0	29.63	- .86	37	35	+ 4	SW	4	7	*	*	39	36	0.12
Bodö ...	28.71	41	SW	8	7	7	28.76	- .12	39	37	- 2	SSE	2	0	2	2	41	37	0.79
Christiansund ...	28.99	46	SSW	9	7	7	29.05	- .12	39	37	- 6	SW	6	7	6	6	41	37	0.32
Skudenes ...	29.02	43	SSW	8	7	7	29.20	- .50	46	42	+ 3	SSW	5	7	5	5	41	37	0.08
Christiania Fjord (Verder) ...	29.54	41	SW	6	6	6	29.30	- .52	40	40	+ 4	S	6	7	4	4	41	37	0.08
Skagen (The Scaw) ...	29.62	39	SW	5	0	0	29.38	- .52	37	36	+ 3	SW	5	0	3	3	39	34	-
Fanö ...	29.70	37	S	4	0	0	29.49	- .48	39	39	+ 3	SW	4	7	*	*	39	36	-
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head ...	29.15	43	W	7	0	0	29.05	- .26	40	39	- 7	W	3	0	5	5	47	39	0.22
Stornoway ...	29.31	44	W	6	7	7	29.24	- .12	40	39	- 9	W	6	7	5	5	49	37	0.40
Wick ...	29.31	42	W	4	6	6	29.20	- .19	36	36	- 6	W	4	0	2	2	46	34	0.04
Nairn ...	29.36	41	SW	1	6	6	29.28	- .25	37	35	- 8	SW	1	0	1	1	48	37	0.10
Aberdeen ...	29.44	40	SSW	2	0	0	29.31	- .30	38	35	+ 2	W	1	6	1	1	46	33	-
Leith ...	29.51	44	W	3	0	0	29.41	- .36	40	39	+ 1	W	3	0	5	5	45	38	0.06
Shields ...	29.61	40	SW	2	0	0	29.50	- .39	41	39	+ 10	W	2	0	2	2	43	30	-
Spurn Head ...	29.75	36	SSW	3	6	6	29.59	- .35	39	39	+ 2	WSW	4	6	3	3	40	34	0.01
York ...	29.78	35	S	2	6	6	29.59	- .36	40	39	+ 9	WSW	2	6	*	*	40	30	0.01
Loughborough ...	29.80	32	SW	1	0	0	29.68	- .30	38	37	+ 5	SW	1	0	0	0	44	32	-
<b>GERMANY.</b>																			
Arrossan ...	29.55	46	WSW	4	7	7	29.48	- .31	43	41	0	W	7	0	5	5	46	41	0.08
Malin Head ...	29.56	47	W	4	0	0	29.52	- .26	43	43	+ 1	W	5	0	5	5	48	39	0.05
Mullaghmore ...	29.65	46	WNW	6	0	0	29.64	- .29	44	43	+ 4	WNW	5	0	4	4	48	39	0.10
Behnullet ...	29.70	47	W	4	0	0	29.69	- .31	45	43	- 2	W	4	0	*	*	49	45	0.11
Donaghadee ...	29.68	42	SW	3	0	0	29.60	- .28	41	40	+ 8	WSW	4	0	2	2	42	32	-
<b>FRANCE &amp; NETHERLANDS.</b>																			
Barrow-in-Furness ...	29.70	44	SSW	5	0	0	29.57	- .36	45	43	+ 7	SW	4	0	*	*	46	38	0.03
Liverpool (Bidston) ...	29.75	38	SSW	2	0	0	29.64	- .32	43	42	+ 11	WSW	5	0	4	4	44	31	-
Holyhead ...	29.74	44	SW	4	0	0	29.68	- .26	46	44	+ 12	W	5	0	5	5	47	34	0.03
Parsonstown ...	29.75	42	W	0	0	0	29.74	- .21	41	39	+ 18	SW	1	0	*	*	43	22	0.04
Valencia ...	29.80	49	WSW	4	7	7	29.83	- .14	48	45	+ 11	WNW	3	0	3	3	50	37	0.09
Roche's Point ...	29.81	43	W	2	0	0	29.79	- .16	45	43	+ 13	W	2	0	3	3	45	32	-
Pembroke ...	29.82	41	W	2	0	0	29.71	- .24	48	47	+ 14	WNW	4	0	3	3	48	34	0.05
Scilly ...	29.84	44	WNW	2	0	0	29.83	- .07	50	49	+ 7	WNW	4	0	4	4	50	42	0.04
Prawle Point ...	29.86	35	NNE	2	6	6	29.81	- .09	45	45	+ 7	WNW	3	0	2	2	48	31	-
Jersey ...	29.79	46	NE	1	0	0	29.86	+ .03	45	42	+ 1	WSW	3	0	3	3	47	40	-
Hurst Castle ...	29.81	39	N	2	0	0	29.77	- .14	45	45	+ 7	W	4	0	2	2	45	34	0.01
Dungeness ...	29.74	42	E	4	0	0	29.73	- .14	41	39	- 1	W	4	0	3	3	44	35	-
London ...	29.81	40	WNW	1	0	0	29.74	- .19	37	36	0	WSW	1	0	0	0	43	33	-
Oxford ...	29.83	33	NW	1	0	0	29.73	- .24	40	39	+ 11	WSW	3	0	*	*	40	29	-
Cambridge ...	29.81	37	N	1	0	0	29.70	- .25	35	35	+ 2	S	1	0	*	*	40	30	-
Yarmouth ...	29.79	40	SSE	2	0	0	29.66	- .27	36	35	- 5	W	2	0	3	3	42	33	-
<b>ITALY.</b>																			
Cuxhaven ...	29.89	36	SE	1	0	0	29.68	- .35	37	36	+ 1	SE	2	7	*	*	37	36	-
Berlin ...	29.89	36	SE	1	0	0	29.77	- .16	40	39	+ 7	E	1	0	*	*	43	37	-
Wiesbaden ...	29.85	35	NE	4	0	0	29.63	- .10	37	36	+ 4	W	2	0	*	*	37	30	-
Munich ...	29.85	35	NE	4	0	0	29.63	- .10	37	36	+ 4	W	2	0	*	*	37	30	-
<b>SPAIN.</b>																			
The Helder ...	29.80	36	SSE	1	0	0	29.63	- .33	40	38	+ 2	WSW	3	0	3	3	41	36	-
Brussels ...	29.80	36	SSE	1	0	0	29.76	- .15	37	37	0	SSW	1	0	*	*	38	36	0.04
Cape Gris Nez ...	29.76	36	E	4	0	0	29.75	- .12	41	40	+ 6	W	4	0	3	3	41	36	-
Paris ...	29.75	43	WSW	1	0	0	29.81	+ .03	41	39	+ 1	W	1	7	*	*	46	41	0.08
Brest ...	29.82	46	NE	4	0	0	29.91	+ .05	43	42	+ 2	W	4	0	2	2	48	39	-
Lorient ...	29.78	45	NE	4	0	0	29.95	+ .19	42	40	+ 1	NW	3	6	2	2	46	37	-
Rocheport ...	29.83	46	NW	3	0	0	29.96	+ .20	45	43	+ 1	NW	4	0	2	2	54	39	-
Belfort ...	29.84	41	N	3	7	7	29.84	- .04	40	39	0	NW	1	0	*	*	42	34	0.16
Lyons ...	29.84	46	NE	1	7	7	29.84	- .04	42	42	+ 2	NW	3	0	*	*	46	40	0.63
Nice ...	29.95	51	E	3	7	7	29.80	- .15	48	47	- 3	ESE	3	7	3	3	59	46	1.06
<b>PORTUGAL.</b>																			
Perpignan ...	29.77	50	W	0	0	0	29.86	+ .06	52	46	+ 10	WNW	4	0	*	*	61	2	-
Biarritz ...	29.77	53	S	3	6	6	29.91	+ .20	50	48	- 4	SW	4	7	2	2	59	46	-
Corunna ...	29.80	54	ESE	4	0	0	30.00	+ .40	47	47	- 6	SE	5	6	2	2	59	46	0.04
Lisbon ...	29.80	54	ESE	4	0	0	30.00	+ .40	47	47	- 6	SE	5	6	2	2	59	46	0.04



# WEATHER CHARTS

for 8 a.m. on Friday, 25<sup>th</sup> November.

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.

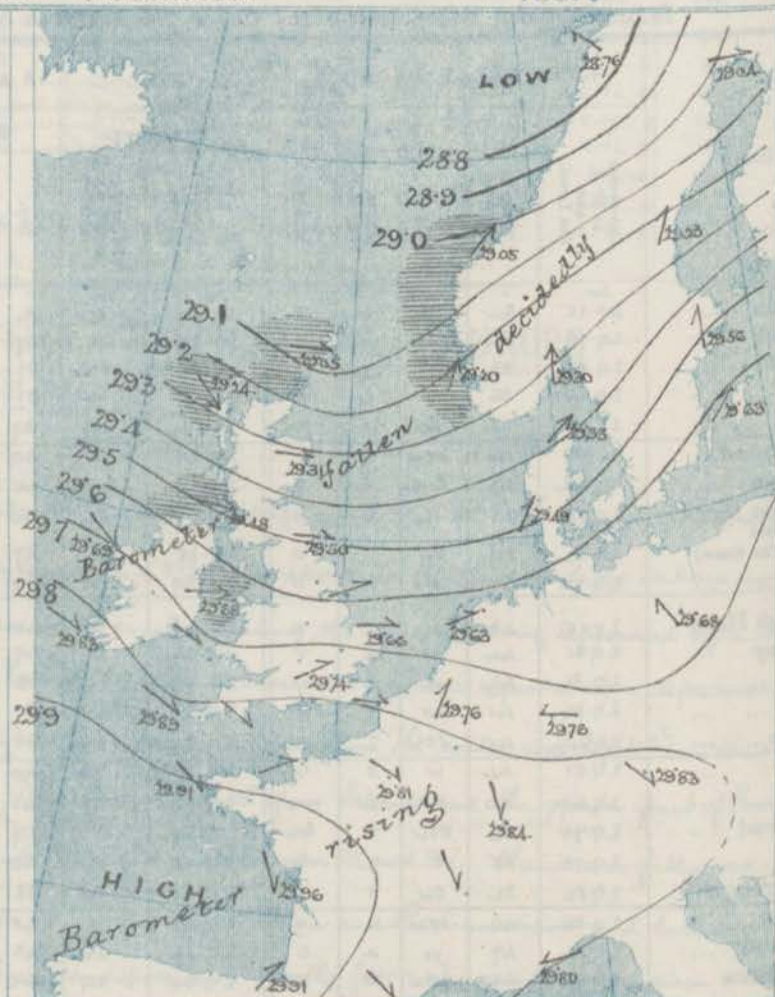
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.809
Hurst Castle	29.835
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

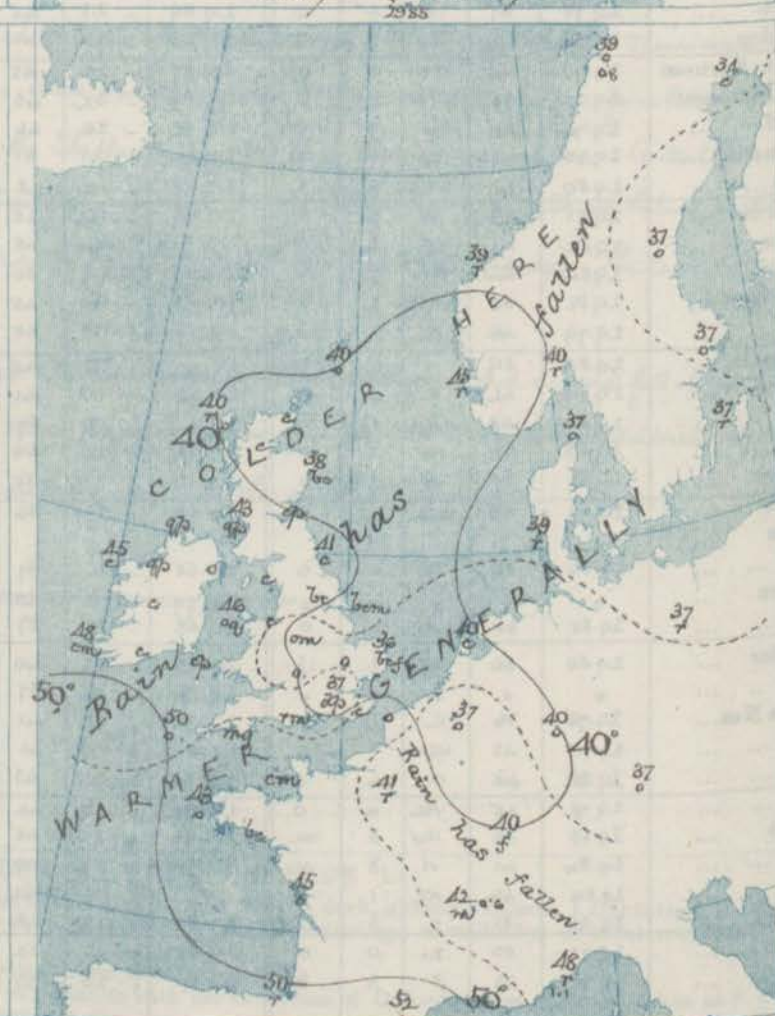
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	38.2	36.6	40.9	39.4	2.11
Shields	40.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.5	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	40.2	44.2	3.96
Scilly	52.0	40.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.58
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 in. and more, over the northernmost parts of the Spanish Peninsula, and 29.8 in. and more, over the south-west of our Islands; lowest, 28.8 in. and less, over the west of Lapland; 29 in. and less, over the Shetlands and west of Norway generally. Gradients moderate and favourable for W. winds in our Islands and for SW. winds to the eastward of the North Sea. Barometer rising in south-west, falling elsewhere — most in Scandinavia.

## TEMPERATURE

Highest, 52° at Helsingfors, 50° at Rhenish and Sicily, and 48° at Valencia. Lowest, 34° at Haparanda, 36° at Väst. 37° on the Swedish coast, and at Bremen, Berlin, and Munich. It is falling again in the north, but has risen over Ireland and England.

## WIND

W. and NW. over the British Isles and France, the former being moderate generally, while the latter blows strongly in the north-west. In Denmark and Norway, wind is SW. to S., moderate to strong.

## WEATHER

Cloudy, showery, and unsettled, but rainfall not heavy. Sun at halcyon seen in many places last night.

## SEA

Rough in the north, rather so in the west, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The high pressure area in the south will now probably spread northwards and cause an improvement in the weather over the southern districts, but it is at present uncertain whether the improvement will be of a lasting character.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> Nov.

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW <sup>2</sup> winds, fresh to moderate; dull, rain at times.
1	SCOTLAND EAST	D° ————— D° ————— D°
2	ENGLAND N.E.	D° ————— D° ————— D°
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	W <sup>2</sup> breezes, moderate; fair as a whole.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW <sup>2</sup> to SW <sup>2</sup> winds, strong to moderate; showery to clear, unsettled.
7	ENGLAND N.W.	D° ————— D° ————— D°
8	ENGLAND S.W.	Same as N° 5
9	IRELAND NORTH	Wind backing to SW. or S. again; fair to rainy.
10	IRELAND SOUTH	D° ————— D° ————— D°

### WARNINGS

The south cone is still up in district 0 and part of 6, but has been lowered in the west of Ireland.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Ses.		Bar.	Dry.	Wet.	Wind.	Woa.	Ses.
Skudesneboe ...	29.57	43	39	S 5	O	5	Holyhead ...	29.81	43	40	SW 4	O m	2
Sumburgh Head ...	29.15	46	43	WSW 5	C	5	Valencia ...	29.85	49	46	SW 3	O g	4
Stornoway ...	29.33	45	44	W 6	T	5	Scilly ...	29.86	44	41	W 4	O	3
Aberdeen ...	29.48	45	38	SSW 5	O	2	Dungeness ...	29.77	43	41	E 4	C	3
Shields ...	29.70	40	37	SW 3	O	3	London ...	29.81	41	39	NE 2	O g	3
Ardrossan ...	29.62	43	42	SSW 6	T	4	Yarmouth ...	29.82	41	40	E 1	C f	3
Malin Head ...	29.57	46	45	SW 4	O	3	Jersey ...	29.76	47	43	SW 2	O	2
Mullaghmore ...	29.65	45	44	SSW 6	C	4	Rochefort ...	29.76	49	49	SW 1	O	2
Belmullet ...	29.69	48	47	W 4	O d	*							

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

The reports for yesterday morning showed that while the highest pressures of all (30.1 ins. and upwards) were reported in two areas lying respectively over Turkey and the neighbourhood of St. Petersburg a long and tapering band of relatively high readings extended from those regions to the southwest coast of our Islands. A shallow area of low pressure still lay over the Iberian Peninsula but the lowest readings of all, 28.9 ins. and less, were found in a deep depression the centre of which was approaching the northwest of Norway from the W<sup>nd</sup>. Strong breezes from the SW<sup>nd</sup> were reported in the extreme northwestern and northern parts of Europe; but over the Netherlands, France, and the south of England the wind remained E<sup>z</sup>, while over eastern, central, and southern Europe it was very variable. Quill showery weather prevailed in the extreme north of our Islands, as well as at several of the French stations and fog was reported over England, but elsewhere the weather though somewhat cloudy was as a rule fair and dry. Temperature had fallen a little over Germany and the southern part of our Islands and Russia, but risen in most other localities; readings ranged from 60° and upwards in Algeria and 55° and upwards over south Italy to 5° or less over Northern Russia. The highest individual readings were 66° at Annaba, 64° at Algiers, 62° at Oran and LaFalle, 59° at Jof and 58° at Brindisi and Cagliari; the lowest were 2° at Ancharaf, 11° at St. Petersburg, 13° at Riga, 14° at Krasnod, 17° at Moscow, and 20° at Ulenborg.

In the course of the day the barometer fell decidedly in all parts of North Western Europe, while the SW<sup>z</sup> winds in the north extended further southwards. No important change was observed in the weather.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Saturday 26<sup>th</sup> November 1887.

Issued by the Meteorological Office, 116, Victoria Street, London, R. N. 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 ...	29.10	32	W	0	bc	29.06	+ 0.2	33	88	- 1	W	0	0	*	34	30	0.16	
Hernösand ...	29.09	34	SSW	2	0	29.11	- 1.2	33	32	- 4	W	0	e	*	39	32	0.12	
Stockholm ...	29.27	35	SSW	2	0	29.28	- 2.8	37	35	0	SSW	2	0	*	39	32	-	
Wisby ...														*				
Bodö ...	28.94	37	WSW	4	0	29.91	+ 1.5	33	31	- 6	E	2	bc	1	39	?	0.12	
Christiansund ...	29.07	36	WSW	4	0	29.06	+ 0.1	36	33	- 3	WSW	6	e	6	32	32	0.47	
Skudesnaes ...	29.21	44	WNW	6	0	29.15	- 0.5	39	37	- 6	SE	8	r	5	45	?	-	
Christiania Fjord (Farder)	29.15	40	WSW	2	b	29.27	- 0.3	37	33	- 3	W	3	e	2	41	36	0.08	
Skagen (The Scaw)	28.84	36	WSW	3	b	29.34	- 0.4	39	39	+ 2	NW	3	0	2	39	36	0.12	
Fanö ...	29.43	40	WSW	4	bc	29.52	+ 0.3	42	41	+ 3	WSW	4	e	*	43	39	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.28	36	WNW	1	c	28.76	- 2.9	45	45	+ 5	W	3	r	3	45	34	0.42	
Stornoway ...	29.37	35	W	0	0	28.84	- 4.0	50	49	+ 10	W	6	0	6	51	33	0.48	
Wick ...	29.40	36	NW	1	c	28.89	- 3.1	50	49	+ 12	NW	6	ou	2	50	34	0.24	
Nairn ...	29.42	39	W	0	bc	28.94	- 3.4	52	51	+ 15	WSW	3	r	2	53	31	0.10	
Aberdeen ...	29.43	39	WSW	3	b	29.02	- 2.9	49	47	+ 11	SW	4	c	2	49	36	0.06	
Leith ...	29.53	44	W	2	bc	29.16	- 2.5	52	50	+ 12	W	5	cj	*	52	40	0.03	
Shields ...	29.56	42	W	4	b	29.33	- 1.7	51	48	+ 10	SSW	4	0	2	51	39	-	
Spurn Head ...	29.64	42	W	4	b	29.57	- 0.2	46	45	+ 7	SW	5	bc	2	46	38	-	
York ...	29.64	43	W	3	bc	29.53	- 0.6	50	47	+ 10	SW	4	0	*	50	39	-	
Loughborough	29.72	43	W	3	c	29.66	- 0.2	49	46	+ 11	WSW	5	og	*	49	36	-	
GERMANY.																		
Ardrossan ...	29.54	45	WSW	4	cj	29.23	- 2.5	50	49	+ 7	SW	7	d	6	50	38	0.38	
Malin Head ...	29.49	44	SW	4	or	29.20	- 3.2	50	50	+ 7	WSW	6	at	5	52	33	0.15	
Mullaghmore ...	29.55	47	WSW	5	or	29.29	- 3.5	52	51	+ 8	SW	7	or	6	52	43	0.06	
Belmullet ...	29.54	49	SW	6	a	29.29	- 4.0	50	48	+ 5	SW	7	r	*	51	44	0.30	
Donaghadee ...	29.61	44	WSW	4	r	29.33	- 2.7	52	50	+ 11	WSW	8	e	5	52	40	0.03	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.65	46	WSW	4	e	29.43	- 0.9	49	47	+ 4	SW	7	ou	*	49	45	0.03	
Liverpool (Bidston)	29.70	43	WSW	4	c	29.57	- 0.7	49	46	+ 6	WSW	6	c	4	50	42	-	
Holyhead ...	29.71	48	WSW	5	c	29.55	- 1.3	50	49	+ 4	SW	6	ogm	5	51	46	-	
Parsonstown ...	29.72	47	SW	1	0	29.49	- 2.5	51	48	+ 10	SSW	4	0	*	51	39	-	
Valencia ...	29.73	47	SW	5	og	29.54	- 2.9	53	51	+ 5	SW	8	0	6	53	42	0.02	
Roche's Point...	29.79	48	W	3	0	29.63	- 1.6	51	50	+ 6	WSW	5	0	4	51	42	-	
Pembroke ...	29.80	49	WSW	4	bc	29.69	- 0.2	50	50	+ 2	SSW	6	og	5	50	48	0.01	
Scilly ...	29.84	50	WSW	5	0	29.82	- 0.1	52	50	+ 2	SW	5	0	4	52	43	-	
Prawle Point ...	29.89	46	WSW	3	bc	29.86	+ 0.5	50	46	+ 5	SSW	6	ogu	5	50	43	-	
Jersey ...	29.92	45	WNW	3	ogpm	29.96	+ 1.0	49	47	+ 4	SW	3	bc	3	50	45	0.11	
SPAIN.																		
Hurst Castle ...	29.84	44	WNW	4	c	29.86	+ 0.9	48	47	+ 3	WSW	5	cj	3	48	41	0.07	
Dungeness ...	29.78	44	WNW	4	b	29.81	+ 0.8	49	47	+ 8	WSW	4	c	4	49	40	-	
London ...	29.80	41	W	2	bm	29.81	+ 0.7	48	45	+ 11	WSW	6	ou	*	48	37	0.01	
Oxford ...	29.82	40	W	3	0	29.77	+ 0.4	47	44	+ 7	SW	5	og	*	48	39	-	
Cambridge ...	29.74	40	W	2	e	29.73	+ 0.3	48	45	+ 13	SW	3	0	*	48	34	-	
Yarmouth ...	29.69	40	W	3	bc	29.70	+ 0.4	44	43	+ 8	WSW	4	c	3	44	35	-	
PORTUGAL.																		
Cuxhaven ...	29.53	39	WSW	5	r	29.65	+ 1.1	40	39	+ 3	SW	4	0	*	40	37	0.26	
Berlin ...	29.66	40	WSW	2	0	29.79	+ 1.1	40	39	+ 3	WNW	3	c	*	43	31	0.04	
Wiesbaden ...	*	*	*	*	*	29.95	+ 1.8	41	40	+ 1	SW	1	0	*	48	39	-	
Munich ...	29.85	40	W	3	0	30.04	+ 2.1	40	38	+ 3	W	4	0	*	43	37	0.04	
ITALY.																		
The Helder ...	29.66	45	WNW	4	bc	29.69	+ 0.6	45	44	+ 5	SW	4	d	3	46	?	-	
Brussels ...	*	*	*	*	*	29.92	+ 1.6	41	40	+ 4	WSW	5	0	*	43	?	0.04	
Cape Gris Nez...	29.76	44	W	5	bc	29.85	+ 1.0	48	47	+ 7	WSW	5	0	4	?	44	-	
Paris ...	29.93	43	SW	1	0	30.04	+ 2.3	40	40	- 1	SSW	3	0	*	44	36	-	
Brest ...	29.97	48	N	4	0	29.93	+ 0.2	51	47	+ 8	WSW	4	0	4	51	39	-	
GREECE.																		
Lorient ...	30.00	49	W	4	0	30.01	+ 0.6	49	48	+ 7	WSW	4	r	3	50	41	0.04	
Rocheport ...	30.08	46	WNW	3	b	30.14	+ 1.8	50	48	+ 5	SW	4	0	2	54	41	-	
Belfort ...	29.94	41	NW	1	0	30.07	+ 2.3	42	38	+ 2	WNW	1	0	*	45	?	-	
Lyons ...	29.98	44	WNW	3	0	30.13	?	38	37	- 4	ENE	1	c	*	50	37	-	
Nice ...	29.86	49	W	1	1	29.87	+ 0.7	46	42	- 2	E	3	b	2	50	41	0.59	
Perpignan ...	29.99	51	NW	4	b	30.15	+ 2.0	44	41	- 8	NW	4	b	*	58	44	-	
Biarritz ...	30.10	52	N	4	0	30.16	+ 2.5	47	44	- 3	SW	4	b	1	54	45	0.16	
Corunna ...	*	*	*	*	*													
Lisbon ...	30.09	54	N	4	b	30.11	+ 1.1	47	45	0	WNW	4	b	2	57	46	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Saturday, 26<sup>th</sup> November.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

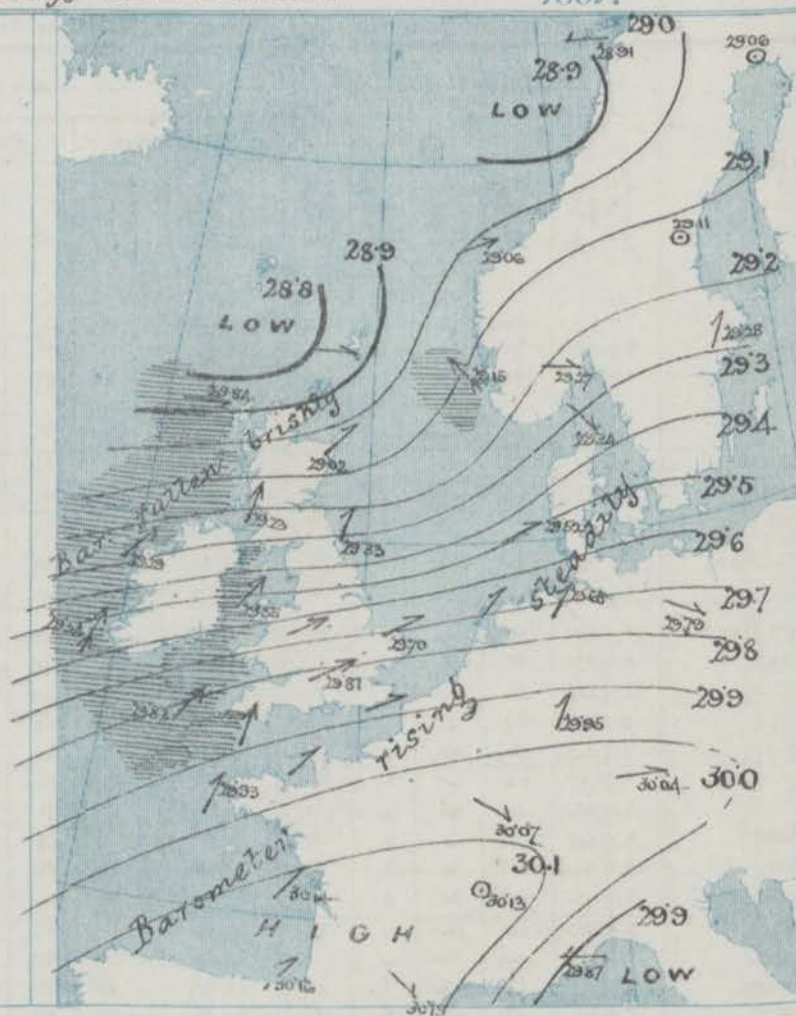
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7; —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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
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Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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 November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	Air & Soil	Wet	
Sumburgh Head	45.0	36.0	41.0	39.4	4.24
Stornoway	45.0	36.2	40.8	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	40.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.06
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.8	43.6	41.9	3.56
LONDON	49.0	37.2	43.3	39.9	2.14
Oxford	47.9	37.1	42.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 in. to 30.15 in. over France and Spain. Lowest, 28.8 in. and less, off our extreme northwestern coasts, 28.9 in. in west of Norway. Gradients steep except in the south. Barometer falling in north and east, rising over France.
TEMPERATURE	Highest, 53° at Valence, 52° at Seilly, Domagha, and Nain, 51° at Shields. Lowest, 33° in Lapland and at Haparanda, 36° at Christiansund, 37° at Stockholm and Lander, 38° at Lyons, 39° at Copenhagen, 40° at Berlin and Munich. It is now many degrees above the average for the time of year especially in the north.
WIND	Has become SW <sup>ly</sup> (S to W) over the United Kingdom generally, and varies from a fresh to moderate breeze in the east — to a moderate to fresh gale in the west. It blew a "whole gale" at Belmullet in the night.
WEATHER	Very mild and air damp, with rain at times in many places, most in the north and northwest. The appearance of the sky is unsettled and threatening. Lunar halo well seen in many places last night.
SEA	Rough in the north, rather rough in the west, moderate (but increasing) in the south, slight or smooth at the eastern stations and over the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is still rising over France, and steady at our southeastern stations, while it is falling decidedly in the north and west a further increase of wind from between S. and W. is likely, and gales will probably be felt on all our coasts during the ensuing twenty-four hours.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> Nov<sup>r</sup>

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	SW <sup>ly</sup> and W <sup>ly</sup> winds, strong to a gale; squally, showery.	6 SCOTLAND WEST	S <sup>ly</sup> to W <sup>ly</sup> strong winds and gales; squally, rainy.
2 SCOTLAND EAST	— D° — D° — D° —	7 ENGLAND N. W.	— D° — D° — D° —
3 ENGLAND N. E.	Same as N°5	8 ENGLAND S. W.	— D° — D° — D° —
4 ENGLAND EAST	Same as N°5.	9 IRELAND NORTH	— D° — D° — D° —
5 MIDLAND COUNTIES	Same as N°5	10 IRELAND SOUTH	— D° — D° — D° —
6 ENGLAND SOUTH	SW <sup>ly</sup> winds, strong to a strong gale; squally, showery, very unsettled.	WARNINGS	The south cone was hoisted yesterday afternoon in districts 6, 7, 9, 10 and part of 8 and in all other districts this morning.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudownaes ...	29.16	48	41	W 4	T	5	Holyhead ...	29.70	48	45	W 4	bc	4
Sumburgh Head ...	29.17	87	86	N 2	O	4	Valencia ...	29.82	50	48	W 3	bc	3
Stornoway ...	29.38	40	40	W 6	T	5	Scilly ...	29.86	51	48	W 5	bc	4
Aberdeen ...	29.55	42	38	W 3	b	1	Dungeness ...	29.74	46	45	W 4	c	3
Shields ...	29.50	45	42	W 3	b	2	London ...	29.75	47	44	W 2	bc	*
Ardrossan ...	29.52	47	43	W 6	c	5	Yarmouth ...	29.64	43	42	W 3	bc	2
Malin Head ...	29.57	46	44	W 4	O	4	Jersey ...	29.87	48	47	W 3	O	3
Mullaghmore ...	29.64	47	45	W 5	omp	5	Rochefort ...	30.03	53	49	W 4	bc	2
Belmullet ...	29.65	46	39	W 4	op.	*							

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

The Continental reports for yesterday morning showed that pressure was highest, 30.1 in: and upwards, over the Central and Southern parts of Russia, but relatively high, 30.0 in: and upwards over Spain and Algeria. The centre of a large and deep depression in which reading was <sup>low</sup> 28.8 in: still lay off the extreme northwest of Norway, and a shallow area of low pressure was also found over Italy, and the extreme south of France. The wind was NW in the west and southwest of our Islands and also over the greater part of France, but over the eastern part of the United Kingdom and over Northern Europe generally it varied between SW. and W., while in Austria and Eastern Germany it was chiefly SE. At many of the northern stations it blew strongly. The weather was in a dull unsettled state generally, and local rain was reported in almost all parts of Europe. Temperature had fallen in the north of our Islands and the west of Norway, as well as over the Iberian Peninsula, but risen elsewhere, reading ranged from 60° and upwards over Algeria and South Italy, to 5° or less over Central Russia. The highest individual readings were 65° at Oran and Laferrière, 64° at Algiers, 62° at Palermo, 61° at Khiridi and Cagliari, 60° at Nemours, and 59° at Aumale and Rome; the lowest were 17° at Moscow, 17° at Archangel, 30° at Hermannstadt, 31° at Petersburg, 32° at Charkov, 33° at Marnel, Kaufakwasser and Riga, and 34° at Hamburg, Haparanda, Ålesborg and Kustvika.

In the course of the day the barometer began to fall somewhat briskly on our extreme western coast, and the wind there backed to the SW. with rain. These changes were occasioned by a deep depression the centre of which advanced towards our northwest coast at night producing a strong gale from SW. in the west of Ireland.

### 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.

ASTERISK is inserted in all places for which information is not usually received.  
Fening 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 27<sup>th</sup> NOVEMBER 1887.

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

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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.  Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.00	34	Z	0	0	28.94	-.12	23	23	-.10	Z	0	0	+	34	?	0.24		
Hernösand ...	29.00	25	Z	0	0	28.88	-.23	27	27	-.16	Z	0	0	+	36	23	—		
Stockholm ...	28.76	38	SW	2	+	29.16	-.12	44	41	+.7	WSW	2	0	+	?	30	0.12		
Wisby ...	29.32	42	SW	6	+	29.32	—	47	45	—	WSW	6	0	+	?	34	0.28		
Bodö ...	28.93	31	E	2	b	28.98	+.07	25	23	-.8	ENE	2	b	1	34	25	—		
Christiansund...	28.80	35	ESE	2	c	29.00	-.06	35	33	-.1	S	1	b	5	36	30	—		
Skadesnaes ...	29.05	48	WSW	8	c	29.15	-.00	47	44	+.8	WSW	6	0	6	48	39	—		
Christiania Fjord (Færdar)	29.00	42	WSW	4	f	29.12	-.15	44	41	+.7	WSW	6	c	5	?	?	—		
Skagen (The Scaw)	29.19	46	SW	6	0	29.22	-.12	46	45	+.7	WSW	5	c	3	46	39	0.24		
Fanö ...	29.49	46	SW	6	c	29.50	-.02	46	45	+.4	WSW	6	c	+	46	42	0.08		
BRITISH ISLANDS.																			
Sumburgh Head	28.76	46	WSW	7	0	29.18	+.37	35	34	-.10	N	1	0	3	49	34	0.19		
Stornoway ...	28.94	47	W	7	c	29.14	+.30	40	39	-.10	NW	5	0	4	50	34	0.05		
Wick ...	28.96	42	SW	7	b	29.15	+.26	40	40	-.10	NW	2	0	1	50	38	0.02		
Nairn ...	29.03	47	SW	4	c	29.12	+.18	41	40	-.11	ENE	2	+	2	53	39	0.08		
Aberdeen...	29.10	46	SW	2	b	29.18	+.11	40	39	-.09	WNW	1	+	1	55	40	0.19		
Leith ...	29.21	46	W	5	h	29.16	-.00	45	42	-.7	W	5	b	+	53	43	0.23		
Shields ...	29.31	53	SW	7	c	29.30	-.03	49	45	-.2	SW	7	c	2	53	48	0.02		
Spurn Head ...	29.51	50	SSW	5	b	29.52	-.05	50	48	-.2	SW	6	b	2	50	46	—		
York ...	29.45	52	W	5	0	29.49	-.04	47	42	-.5	W	5	b	+	53	46	0.17		
Loughborough	29.61	50	SW	4	0	29.58	-.08	49	45	-.4	WSW	5	c	+	52	49	—		
Ardrossan ...	29.26	49	WSW	4	0	29.16	-.07	45	43	-.2	SW	8	+	6	50	44	0.42		
Malin Head ...	29.24	47	WSW	4	or	29.06	-.14	43	42	-.1	W	4	c	3	50	43	0.16		
Mullaghmore ...	29.51	47	SW	4	om	29.26	-.03	42	41	-.1	WSW	9	c	7	52	40	0.09		
Belmullet ...	29.31	47	WSW	4	0	29.39	+.10	43	42	-.1	W	9	c	+	51	41	0.62		
Donaghadee ...	29.43	45	SW	2	0	29.26	-.07	40	40	-.0	WSW	7	c	5	52	43	0.13		
GERMANY.																			
Barrow-in-Farress	29.77	51	S	8	+	29.43	-.05	47	42	-.5	SW	8	b	+	50	42	0.64		
Liverpool (Bidston)	29.49	53	SW	5	0	29.49	-.08	44	40	-.4	WSW	7	b	5	53	44	0.07		
Holyhead ...	29.45	52	SSW	7	or	29.51	-.04	46	42	-.4	WSW	8	b	7	52	46	0.19		
Parsonstown ...	29.40	47	2	0	+	29.52	+.03	41	38	-.3	SW	2	b	+	54	41	0.46		
Valencia ...	29.41	52	SSW	6	0	29.62	+.08	48	46	-.2	WSW	5	or	5	53	42	0.24		
Roche's Point...	29.49	51	WSW	7	+	29.63	-.00	44	40	-.4	W	5	b	4	53	43	—		
Pembroke ...	29.60	51	SSW	7	0	29.67	-.02	48	46	-.2	WSW	6	b	5	52	48	0.22		
Scilly ...	29.74	53	SSW	6	0	29.77	-.05	50	47	-.3	W	5	c	5	54	48	0.02		
Prawle Point ...	29.80	51	SSW	5	0	29.77	-.09	50	48	-.2	SW	6	om	5	52	40	0.08		
Jersey ...	29.93	53	SW	4	0	29.89	-.07	51	48	-.3	SW	5	0	4	53	48	—		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.80	49	WSW	5	c	29.76	-.11	49	49	+.1	SW	7	md	5	50	45	0.02		
Dungeness ...	29.79	50	WSW	6	0	29.77	-.04	51	49	+.2	WSW	6	c	5	51	49	0.04		
London ...	29.76	50	WSW	5	0	29.73	-.08	51	49	+.2	SW	6	or	+	51	48	—		
Oxford ...	29.71	50	SSW	7	0	29.69	-.08	48	45	-.3	SW	5	or	+	51	47	0.01		
Cambridge ...	29.69	49	SW	4	c	29.68	-.05	50	49	+.1	SW	3	+	+	51	46	—		
Yarmouth ...	29.68	49	WSW	5	c	29.66	-.04	49	47	+.2	SW	5	c	4	49	43	—		
Cuxhaven ...	29.64	41	WSW	6	0	29.71	+.06	47	46	+.1	SW	6	b	+	47	?	—		
Berlin ...	29.86	44	SW	5	0	29.91	+.12	44	41	+.3	SW	5	0	+	45	?	—		
Wiesbaden ...	30.07	44	SW	5	0	30.07	+.12	44	42	+.2	Z	0	0	+	48	?	—		
Munich ...	30.13	33	NW	1	b	30.15	+.11	30	30	-.0	SW	2	b	+	45	30	—		
ITALY.																			
The Helder ...	29.71	47	SW	5	0	29.70	+.01	46	45	+.1	SW	5	c	4	48	44	—		
Brussels ...	29.92	48	SW	8	0	29.92	-.00	48	46	+.2	SW	8	0	+	50	39	—		
Cape Gris Nez...	29.81	48	SW	8	0	29.81	-.04	49	48	+.1	SW	8	0	6	50	41	—		
Paris ...	30.05	45	SSW	3	0	30.04	-.00	44	43	-.1	SSW	4	0	+	48	43	—		
Brest ...	29.91	52	WSW	5	0	29.86	-.07	49	47	-.2	SW	7	+	6	52	42	0.12		
Lorient ...	30.00	51	WSW	5	0	29.97	-.04	49	48	+.1	W	5	c	4	54	46	—		
Rocheport ...	30.15	50	SW	4	0	30.12	-.02	44	43	-.1	S	4	b	2	57	39	—		
Belfort ...	30.17	44	E	1	0	30.17	+.04	31	31	-.0	E	1	f	+	48	30	—		
Lyons ...	30.15	48	E	1	b	30.15	+.28	44	42	+.2	E	3	c	3	55	41	—		
Nice ...	30.12	46	NW	1	b	30.10	-.05	37	36	-.1	NW	1	0	+	57	35	—		
Perpignan ...	30.12	48	E	4	b	30.06	-.10	45	41	-.4	WSW	4	m	2	54	37	—		
Biarritz ...	30.12	48	E	4	b	30.06	-.10	45	41	-.4	WSW	4	m	2	54	37	—		
AFRICA.																			
Corunna ...	30.14	52	NNW	5	b	30.19	+.08	51	47	+.4	SW	1	c	2	59	?	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 27<sup>th</sup> November

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;  
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 — Rough. — High.

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

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## 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.  
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## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 3 & 9.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
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Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
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Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly these for the 30 years 1866—85





## GENERAL SITUATION AT 8 A.M.

## PRESSURE

His heel, 30.1 ins. and upwards, over Spain and the southern parts of France and Germany.  
Lowest, 28.9 ins. and less, in a depression lying over the N. of London, 29 ins. and less in two other disturbances lying respectively off the west and north-east of Scotland.  
 Gradients rather steep generally. Barometer rising in northeast and southeast, falling elsewhere.

## TEMPERATURE

Highest,  $51^{\circ}$  at Jersey, Bruggines, London, Corunna and Lisbon and  $50^{\circ}$  at ~~Antwerp~~ <sup>Leuven</sup> ~~Tram~~ <sup>St</sup> ~~Scally~~ <sup>Paul</sup>, ~~Brussels~~ <sup>Brussels</sup> and Cambridge.  
Lowest,  $23^{\circ}$  at Haparanda,  $25^{\circ}$  at Rost,  $27^{\circ}$  at Hornö and  $30^{\circ}$  at Munich,  $31^{\circ}$  at Lyön, and  $35^{\circ}$  at Christiansund.

## WIND

Variable in the north of Scandinavia; light from NW. or N. in the north of Iceland.  
SW. or W. elsewhere, strong over England, Ireland and France, with gales on our northwest coast.  
[Moderate or fresh gales from SW. were experienced over England last night.]

## WEATHER

Fair in the south and north of England, as well as in Scandinavia and Denmark.  
Cloudy or overcast elsewhere, with rain over Scotland, the north of Ireland and Central England.  
Rain fell generally, yesterday, the largest amount being 0.6 in. at Althorpe and Ramo in Lanes, 0.5 in. at Karesnäs, and 0.4 in. at Althorpe.

## SEA

Highest at Mullaghmore and Holyhead, and rather rough on our west and south coasts generally.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the north of our Islands yesterday has apparently travelled away to the north-eastwards, but a shallow secondary disturbance has been formed off the north-east of Scotland, while a well defined and deeper subsidiary system has appeared off the coast of that country. The general conditions remain very unsettled.

## FORECASTS

for the 24 hours ending at NOON on

20<sup>TH</sup> Nov<sup>R</sup>

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 on all coasts except in district and part of I. where it has been lowered this

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.02	45	44	SSE	6	r	5	Holyhead ...	29.49	52	51	SSW	7	omg	6
Sumburgh Head ...	28.75	48	45	W	5	r	4	Valencia ...	29.44	53	52	SSW	8	r	h
Stornoway ...	28.88	48	47	W	8	c	6	Scilly ...	29.77	54	52	SW	6	o	5
Aberdeen ...	29.04	53	48	WSW	4	b	2	Bungness ...	29.78	56	48	WSW	6	o	5
Shields ...	29.31	53	49	SW	7	u	2	London ...	29.76	53	48	SW	5	o	*
Ardrossan ...	29.21	49	48	WSW	6	r	5	Yarmouth ...	29.77	r	41	WSW	5	cq	3
Malin Head ...	29.22	48	47	W	4	o	4	Jersey ...	29.93	52	46	SSW	4	og	3
Mullaghmore ...	29.29	48	47	SW	5	om	4	Rochefort ...	30.12	58	46	S	8	bc	2
Belmullet ...	29.29	49	48	WSW	6	r	*								

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

The reports for yesterday morning showed that pressure varied from 30.1 in: and more in an anticyclone which lay over Spain and the southwest of France and in another which lay over the southeast of Russia to rather below 29 in: off the north of the British Isles and the extreme northwest coast of Norway, where there was apparently a very large complex depression moving eastwards. The wind was consequently, SW<sup>ly</sup> over the whole of NW Europe, but W<sup>ly</sup> over Central Europe, S<sup>ly</sup> in Western Russia and NW<sup>ly</sup> over the Mediterranean, while the weather was very mild and showery. Temperature which had risen rapidly in the northwest ranged from 60° and more over the southern part of the Kingdom and some parts of Algeria, and from upwards of 50° over the western parts of the British Isles to a little above the freezing-point in the north of Scandinavia and to considerably below that value over Central Russia. The air over the British Isles was almost clear, and very transparent. The highest individual temperatures were 64° at Malta, 62° at Palermo, 61° at Algiers (Algiers?) Ghindia and also at Funchal (Madeira), and 60° at Kenes and Oran, 53° at Valencia (Ireland) and 52° at Scilly; the lowest were 16° at Moscow, 31° at Kharkov, 33° at Archangel, Haparanda, Bodö, and Herörand, and 36° at Skudenes and the Læur. Over the British Isles at 8 a.m. there was no reading lower than 44°, and this was recorded at Yarmouth only.

Later in the day temperature became still higher over the United Kingdom and the SW<sup>ly</sup> wind rose to a fresh or strong gale in many places and to a strong breeze or moderate gale in the south. Thunder and lightning occurred in some of our southern localities.

### 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 28<sup>th</sup> November

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.	BAROMETRICAL.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 3.)	SHADE TEMP.		Amount of Rainfall.															
			Dir.	Force (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.																
SCANDINAVIA.																																
Haparanda ...	29.07	15	Z	0	b	29.12	+ .18	22	22	- 1	Z	0	0	*	34	12	-															
Hernösand ...	29.13	22	Z	0	bc	29.21	+ .33	19	19	- 8	N	2	c	*	30	19	-															
Stockholm ...	29.24	45	W	4	c	29.16	- .00	40	37	- 4	WSW	4	0	*	48	36	-															
Wishy ...	29.45	46	WSW	6	r	29.32	- .00	41	39	- 6	WSW	8	bc	*	48	41	-															
Bodo ...	29.49	26	ESE	2	0	29.16	+ .18	28	25	+ 3	ENE	2	bc	1	28	25	-															
Christiansund...	29.08	32	ESE	1	b	29.18	+ .23	35	34	- 0	SW	2	S	4	37	28	0.04															
Skudesnaes ...	29.15	40	W	5	r	29.50	+ .35	39	37	- 8	WSW	6	r	5	?	?	-															
Christiania Fjord (Fjorder)	29.07	44	SW	8	b	29.36	+ .24	40	36	- 2	W	5	bc	5	43	39	0.12															
Skagen (The Seaw)	29.16	44	W	6	0	29.45	+ .23	40	37	- 6	NW	6	b	4	48	39	0.20															
Fanö ...	29.51	44	SW	5	c	29.72	+ .22	42	41	- 4	W	4	c	*	46	41	0.12															
BRITISH ISLANDS.																																
Sumburgh Head	29.21	36	N	2	r	29.56	+ .43	37	36	+ 2	WNW	3	c	3	38	33	0.10															
Stornoway ...	29.38	36	Z	0	b	29.63	+ .49	34	34	- 6	E	4	c	3	40	30	-															
Wick ...	29.36	35	NW	2	b	29.68	+ .53	30	29	- 10	NW	1	c	0	40	29	0.03															
Nairn ...	29.39	38	NNE	2	0	29.76	+ .64	29	29	- 12	Z	0	b	1	44	28	0.22															
Aberdeen...	29.21	40	W	4	b	29.68	+ .55	30	29	- 10	WSW	2	b	1	43	29	0.01															
Leith ...	29.42	42	W	3	r	29.70	+ .54	39	37	- 6	WSW	1	bc	*	45	37	0.15															
Shields ...	29.39	45	SW	7	bc	29.79	+ .49	39	37	- 10	SW	2	c	2	53	36	0.02															
Spurn Head ...	29.62	43	SW	6	E	29.86	+ .34	39	38	- 11	SW	3	b	2	50	37	-															
York ...	29.59	42	W	5	bc	29.86	+ .37	38	37	- 9	SW	1	b	*	50	37	-															
Loughborough	29.73	42	W	2	b	29.91	+ .33	41	39	- 8	SW	3	b	*	50	39	0.03															
Ardrossan ...	29.44	41	W	2	r	29.70	+ .54	44	42	- 1	SW	4	c	4	45	39	0.27															
Malin Head ...	29.45	39	W	6	0	29.62	+ .56	38	37	- 5	SW	4	bc	4	44	36	0.52															
Mullaghmore ...	29.58	42	SW	6	cm	29.68	+ .42	40	38	- 2	SW	5	c	4	46	38	0.05															
Belmullet ...	29.58	44	W	7	c	29.67	+ .28	44	42	+ 1	SW	4	c	*	45	42	0.06															
Donaghadee ...	29.60	40	SW	5	c	29.74	+ .43	33	33	- 10	WSW	4	b	2	46	33	-															
GERMANY.																																
Barrow-in-Fariness	29.58	45	SW	6	c	29.77	+ .34	44	41	- 3	SW	4	bc	*	47	42	0.02															
Liverpool (Bidston)	29.66	42	WSW	6	b	29.84	+ .35	40	38	- 4	SW	2	b	3	49	40	0.02															
Holyhead ...	29.67	44	WSW	7	cq	29.82	+ .31	44	42	- 2	SW	3	bc	3	48	43	-															
Parsonstown ...	29.71	40	SW	2	b	29.80	+ .28	35	34	- 6	Z	0	bc	*	43	32	0.05															
Valencia ...	29.73	45	WSW	4	ogp	29.80	+ .18	46	41	- 2	WSW	4	bc	4	48	44	0.24															
Roche's Point...	29.76	45	W	4	b	29.83	+ .20	43	41	- 1	W	2	b	4	48	41	0.20															
Pembroke ...	29.80	47	WSW	6	b	29.86	+ .19	49	48	+ 1	SW	4	bc	5	49	45	0.05															
Scilly ...	29.89	49	W	5	c	29.93	+ .16	48	46	- 2	SSW	2	ap	4	52	46	0.07															
Frawle Point ...	29.92	47	W	4	b	29.98	+ .21	49	46	- 1	SW	5	bc	4	52	44	-															
Jersey ...	29.98	50	WNW	3	c	30.06	+ .17	48	46	- 3	SSW	3	ogm	3	51	42	0.08															
FRANCE & NETHERLANDS.																																
Hurst Castle ...	29.90	47	W	4	b	30.01	+ .26	48	47	- 1	WSW	4	bc	4	50	44	0.02															
Dungeness ...	29.82	50	W	5	cqp	30.01	+ .24	47	46	- 4	WSW	4	0	4	51	43	0.07															
London ...	29.85	45	WSW	3	bc	29.99	+ .26	44	42	- 7	S	2	c	*	52	40	0.03															
Oxford ...	29.88	41	WSW	3	b	29.98	+ .29	41	39	- 7	SW	1	b	*	51	39	0.01															
Cambridge ...	29.85	40	SW	2	b	29.97	+ .29	40	39	- 10	SW	2	c	*	54	36	0.02															
Yarmouth ...	29.72	45	WSW	4	b	29.92	+ .26	41	40	- 8	WSW	4	c	3	50	35	0.01															
Cuxhaven ...	29.71	43	SW	6	r	29.87	+ .16	41	40	- 6	WSW	5	b	*	?	39	0.08															
Berlin ...	29.92	46	SW	4	0	29.98	+ .07	41	41	0	W	4	bc	*	46	43	-															
Wiesbaden ...	*	*	*	*	*	30.15	+ .08	39	38	- 5	SW	1	bc	*	46	37	-															
Munich ...	30.12	33	Z	0	f	30.21	+ .06	34	34	+ 4	SW	3	0	*	37	30	-															
ITALY.																																
The Helder ...	*	*	*	*	*	30.10	+ .18	41	40	- 7	SSW	3	c	*	50	40	0.04															
Brussels ...	*	*	*	*	*	30.05	+ .24	46	46	- 3	SW	5	c	4	50	45	0.08															
Cape Gris Nez...	29.89	47	WSW	8	c	30.05	+ .24	46	46	- 3	SW	5	c	4	50	45	0.08															
Paris ...	30.04	45	SSW	3	0	30.12	+ .08	41	41	- 5	S	1	0	*	49	41	-															
Brest ...	30.01	49	WNW	4	0	30.05	+ .19	48	46	- 1	S	4	0	5	50	39	0.04															
Lorient ...	30.04	50	W	3	bc	30.04	+ .07	45	45	- 4	SE	1	f	5	50	43	0.12															
Rochefort ...	30.14	43	S	4	bc	30.16	+ .04	45	44	+ 1	SSW	5	0	2	52	41	-															
Belfort ...	30.12	42	NE	1	b	30.16	+ .04	32	31	- 1	NE	1	f	*	48	?	-															
Lyons ...	30.17	35	SE	1	c	30.19	+ .02	31	31	0	N	1	b	*	40	23	-															
Nice ...	30.02	49	C	1	c	30.01	- .14	47	40	+ 3	E	3	bc	2	54	41	-															
Perpignan ...	30.11	50	Z	0	0	30.14	+ .04	39	39	+ 2	NW	1	b	*	52	41	-															
Biarritz ...	30.16	53	NW	4	0	30.16	+ .10	47	43	+ 2	SE	4	b	2	55	43	-															
PORTUGAL.																																
Corunna ...	*	*	*	*	*	30.14	+ .04	39	39	+ 2	NW	1	b	*	52	41	-															
Lisbon ...	30.21	55	Z	0	bc	30.19	- .00	53	52	+ 2	Z	0	c	3	59	52	0.04															

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 28<sup>th</sup> November 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—

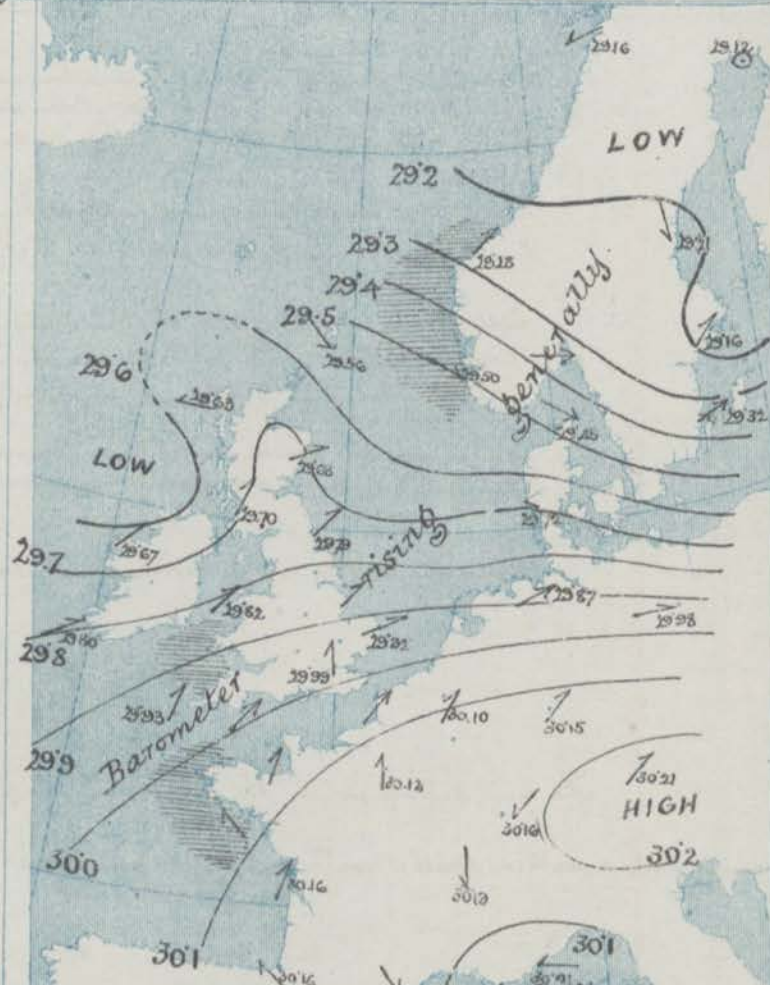
→ = forces above 10, → = forces 8 to 10,  
 → = forces 5 to 7, → = forces 1 to 4,  
 ○ = dead calm.

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.789
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.856



## 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 November.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	45.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.8	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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, over South Germany; 30.1 ins. and upwards, over the greater part of France, Germany and Spain. Lowest, 29.2 ins. and less, over the Gulf of Bothnia and the north of Scandinavia; 29.6 ins. and less, in a shallow depression lying off our extreme N.W. coast. Gradients rather steep over the Baltic, moderate elsewhere. Barometer rising generally, — slowly in west.
TEMPERATURE	Highest, 53° at Lisbon, 49° at Pembroke and Haverhill, and 48° at Scilly, Jersey, Hurst Castle, and Bristol. Lowest, 19° at Hammerstrand, 22° at Haparanda, 28° at Riga, 29° at Kain, 30° at Kain and Aberdeen, and 31° at Lyons.
WIND	Light NW <sup>2</sup> in the extreme north of Scotland; strong from the same quarter or from W. on the Eastern shore of the North Sea. Moderate from SW. over England, Ireland, the Netherlands, and Germany. Light or moderate from S. or SE. over the greater part of France.
WEATHER	Fair generally, but showers reported on our extreme south west coasts and rain or snow in the south of Norway. [Rain fell yesterday in most places, a thunderstorm occurred at Palermo and lunar halos were seen in the south of England.]
SEA	Rather rough off the northwest of France and also at Pembroke, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The new depression in the northwest is apparently of no great depth, but as it moves eastwards freshening winds and unsettled weather will probably be experienced in most parts of the Kingdom.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> Nov<sup>r</sup>

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	Light and somewhat variable breezes; changeable, some rain.	6 { SCOTLAND WEST	Same as No 1.
1 { SCOTLAND EAST	SW <sup>2</sup> and S <sup>2</sup> breezes, freshening; fine to cloudy and some rain.	7 { ENGLAND N. W.	Same as No 5.
2 { ENGLAND N. E.	----- D° ----- D° ----- D° -----	8 { ENGLAND S. W.	Same as No 5.
3 { ENGLAND EAST	Same as No 5	9 { IRELAND NORTH	SW <sup>2</sup> winds, moderate to strong; fair to unsettled and some rain.
4 { MIDLAND COUNTIES	Same as No 5	10 { IRELAND SOUTH	----- D° ----- D° ----- D° -----
5 { ENGLAND SOUTH	SW <sup>2</sup> winds, freshening; changeable, some showers.	WARNINGS	NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.	Wet.	Wind.	Wes.	Sun.		Bar.	Ther.	Wet.	Wind.	Wes.	Sun.
Skudesnaes ...	29.02	45	44	SSW 6	7	5	Holyhead ...	29.58	49	45	W 7	60	7
Sunburgh Head ...							Valencia ...						
Stormway ...	29.24	89	38	NE 14	0	3	Scilly ...						
Aberdeen ...							Dungeness ...	29.79	49	49	W 5	7	4
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.36	40	40	W 5	0	4	Jersey ...	29.92	50	49	W 4	0	8
Mullaghmore ...							Rochester ...	30.12	50	46	S 8	60	2
Belmullet ...	29.58	40	40	W 7	0	4							

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

The report for yesterday morning showed that the high pressure area shown over the South of Russia on Saturday had disappeared, while that shown over Spain and the southwest of France had moved eastwards. Reading varied from 50.1 in. and more over southwest and southern Europe to 28.9 in. over the northern half of Lapland, and to about 29.0 in. off the North of Ireland. A large and complex low pressure area lay over northern Europe, a deep secondary disturbance off the North of Ireland, and a shallower local disturbance at the northern foot of the Pyrenees. SW and W winds were prevalent over nearly the whole of our Islands and France and varied in force from a strong gale at our northwestern stations to a strong breeze or moderate gale in the South. The thermometer continued very high in the Southeast and South, and the weather was cloudy, showery and unsettled generally, but in the North and West the wind had begun to veer and the weather was becoming colder. Temperature varied from 60° and more over Algeria and the southeastern part of the Mediterranean, and from 50° and more over the southeast of England, to somewhat below the freezing point not only over Lapland and the North of Russia, but also over some of the central parts of France and Spain. The highest individual values were 62° at Ajaccio and Algiers, 61° at Brindisi, 60° at Malta (and also at Funchal, Madeira), 51° at Lisbon, 49° at Genoa, 48° at Dungeness and London, and 50° at Scilly and Plover Point. The lowest 25° at Haparanda, 25° at Rode, 26° at Archangel, 27° at Hernösand and 31° at Moscow, Lyons, Clermont, and Madrid. Later in the day the fall of temperature extended to the southeast of England, but the wind there did not veer to the North. In London a slight frost occurred on the grass at night.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 20<sup>th</sup> TO THE 26<sup>th</sup> OF NOVEMBER 1887.

The weather experienced during this week was of a singularly changeable unstable character, at times cold and anticyclonic, with light and varying winds, frost and fog, at other times very warm and showery, with S.W. to W. gales and unusual "visibility". On some occasions (eg on the 20<sup>th</sup> and 21<sup>st</sup>) there were two high pressure and two or more low pressure systems prevalent simultaneously over our area; the most change was (on the 22<sup>nd</sup>) to high northern and low southern pressure, with little or no complication over our Islands, but with rather complex conditions over France and Germany. This brought an E. current of wind over us, the temperature of which was, however, high for an E. wind in November. A broad anticyclonic band then moved southeastwards over the Kingdom and as the wind lulled the temperature over England and Ireland decreased while in Scotland and Norway mild SW. & breeze and showers set in, subsequently increasing to a gale and spreading southwards. On Saturday, 26<sup>th</sup>, a large depression advanced to our northern coasts from the Southwest, and spreading southwards caused SW. gales on our western, northern and northeastern coasts, and strong squally winds in the South. With very high temperature and in many places rain. On the South side of the Channel SW. gales were felt very generally early on Monday morning.

## 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 29<sup>th</sup> November

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	29.40	17	N	2	0	29.62	+ .50	4	4	- 18	NE	2	0	*	*	25	?	-
	Hernösand	29.48	10	N	0	0	29.60	+ .39	20	20	+ 1	N	2	0	*	*	27	9	-
	Stockholm	29.62	29	N	0	0	29.68	+ .52	32	30	- 8	W	2	0	*	*	48	?	-
	Visby	29.69	41	WNW	6	0	29.75	+ .43	40	37	- 1	W	6	0	*	*	46	36	-
	Bodö	29.39	25	ENE	2	0	29.58	+ .42	22	19	- 6	ESE	2	0	1	1	30	21	-
	Christiansund	29.55	36	NW	8	0	29.72	+ .44	32	31	- 3	SE	1	0	4	4	36	28	-
	Skudesnaes	29.70	41	W	5	0	29.71	+ .21	37	33	- 2	NNE	1	0	3	3	41	39	-
	Christiania Fjord (Færdar)	29.59	40	WSW	4	0	29.70	+ .34	36	34	- 4	N	2	0	3	3	41	36	-
	Skagen (The Scaw)	29.72	39	W	3	0	29.74	+ .29	34	33	- 6	W	2	0	1	1	41	32	-
	Fanö	29.87	40	WSW	2	0	29.77	+ .05	39	39	- 3	SSW	4	0	*	*	43	39	0.08
BRITISH ISLANDS.	Sumburgh Head	29.66	37	NW	1	0	29.66	+ .10	35	32	- 2	N	0	0	1	1	41	21	-
	Stornoway	29.68	37	NE	4	0	29.61	- .02	36	35	+ 2	NE	4	0	3	3	38	31	0.08
	Wick	29.71	28	N	0	0	29.65	- .03	37	37	+ 7	SE	1	0	0	0	37	24	-
	Nairn	29.69	33	N	0	0	29.63	- .03	32	31	+ 3	N	0	0	1	1	34	27	0.15
	Aberdeen	29.72	38	N	0	0	29.65	- .03	32	32	+ 2	W	1	0	0	0	38	29	0.01
	Leith	29.73	40	W	1	0	29.64	- .06	30	30	- 9	SE	1	0	1	1	42	29	-
	Shields	29.80	40	SSW	2	0	29.66	- .13	34	33	- 5	N	0	0	2	2	44	32	-
	Spurn Head	29.86	43	SSW	2	0	29.65	- .21	42	42	+ 3	N	0	0	3	3	49	38	0.05
	York	29.85	41	S	1	0	29.67	- .19	34	34	- 4	N	0	0	1	1	43	34	0.01
	Loughborough	29.89	45	SSE	2	0	29.67	- .24	38	38	- 3	N	0	0	1	1	48	38	0.03
GERMANY.	Ardrossan	29.72	44	SSW	4	0	29.62	- .08	37	36	- 7	NE	1	0	1	1	45	35	0.02
	Malin Head	29.67	41	SSW	4	0	29.59	- .03	36	35	- 2	S	3	0	3	3	44	35	0.05
	Mallaghmore	29.71	40	SSW	3	0	29.59	- .09	40	39	0	SSW	2	0	3	3	45	36	0.01
	Belmullet	29.67	40	SSE	3	0	29.62	- .05	43	41	- 1	NW	7	0	1	1	45	40	0.24
	Donaghadee	29.78	35	WSW	2	0	29.62	- .12	38	38	+ 5	SSW	1	0	0	0	44	30	0.03
	Barrow-in-Furness	29.80	43	ESE	3	0	29.63	- .14	38	38	- 6	NE	3	0	1	1	48	38	0.24
	Liverpool (Midson)	29.83	41	SSE	2	0	29.62	- .22	39	39	- 1	SE	1	0	2	2	46	36	0.04
	Holyhead	29.81	44	SW	2	0	29.59	- .23	39	39	- 5	SE	1	0	2	2	49	39	0.68
	Parsonstown	29.77	38	N	0	0	29.55	- .25	33	32	- 2	N	0	0	1	1	45	32	0.01
	Valencia	29.76	46	SSW	3	0	29.73	- .07	44	41	- 2	NW	3	0	4	4	50	43	0.13
FRANCE & NETHERLANDS.	Roche's Point	29.78	41	W	1	0	29.68	- .15	41	39	- 2	W	2	0	4	4	49	40	0.35
	Pembroke	29.81	48	SW	3	0	29.64	- .22	44	43	- 5	WNW	4	0	4	4	49	44	0.39
	Seilly	29.83	47	SSW	4	0	29.72	- .21	46	44	- 2	WNW	5	0	5	5	50	43	0.20
	Prawle Point	29.90	43	E	4	0	29.72	- .26	45	45	- 4	SSW	4	0	3	3	52	38	0.22
	Jersey	29.91	48	SE	3	0	29.79	- .27	48	45	0	WNW	4	0	3	3	50	47	0.38
	Hurst Castle	29.93	48	SSW	3	0	29.71	- .30	40	40	- 8	WNW	3	0	3	3	52	38	0.53
	Dungeness	29.96	48	WSW	4	0	29.55	- .46	48	47	+ 1	W	5	0	4	4	52	45	0.55
	London	29.93	46	S	2	0	29.64	- .35	40	40	- 4	NW	2	0	1	1	53	40	0.42
	Oxford	29.89	45	S	3	0	29.68	- .30	39	39	- 2	N	1	0	1	1	49	39	0.11
	Cambridge	29.94	43	SW	1	0	29.64	- .33	39	39	- 1	N	1	0	1	1	50	38	0.11
SPAIN & PORTUGAL.	Yarmouth	29.93	45	SW	2	0	29.59	- .23	42	41	+ 1	E	6	0	5	5	47	40	0.26
	Cuxhaven	29.95	36	WSW	4	0	29.87	- .00	39	39	- 2	SSW	2	0	1	1	43	36	-
	Berlin	30.10	38	W	2	0	29.98	- .00	34	33	- 10	SSE	1	0	1	1	46	32	-
	Wiesbaden	*	*	*	*	*	29.93	- .22	37	36	- 2	S	1	0	1	1	48	36	-
	Munich	30.15	33	SE	1	0	30.01	- .20	26	25	- 8	S	1	0	1	1	43	25	-
	The Helder	29.96	45	SW	3	0	29.71	- .24	40	39	- 5	E	3	0	3	3	46	39	0.16
	Brussels	*	*	*	*	*	29.78	- .32	45	43	+ 4	SSW	5	0	1	1	48	?	0.08
	Cape Gris Nez	29.97	45	SW	4	0	29.49	- .56	46	45	0	WSW	8	0	6	6	48	45	0.43
	Paris	30.05	47	S	3	0	29.84	- .28	41	40	0	SSW	3	0	1	1	47	40	0.04
	Brest	29.82	48	S	3	0	29.84	- .21	48	46	0	NW	4	0	5	5	52	23	2.17
ITALY & GREECE.	Lorient	29.91	52	S	4	0	29.87	- .17	49	46	+ 4	W	4	0	5	5	52	41	0.16
	Rocheport	30.10	48	S	5	0	29.95	- .21	46	46	+ 1	S	7	0	2	2	54	37	-
	Belfort	30.15	39	NE	1	0	29.97	- .19	29	27	- 3	ESE	1	0	1	1	46	25	-
	Lyons	30.15	42	N	1	0	30.06	- .13	32	32	+ 1	S	1	0	1	1	47	30	-
	Nice	30.06	49	E	9	0	30.06	+ .05	46	39	- 1	E	1	0	1	1	57	43	-
	Perpignan	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Biarritz	30.08	51	W	4	0	29.97	- .19	50	44	+ 3	SW	3	0	3	3	55	45	-
	Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon	30.16	55	SSE	1	0	30.06	- .13	56	55	+ 3	S	5	0	4	4	59	53	0.79

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Tuesday, 29<sup>th</sup> November.*

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.

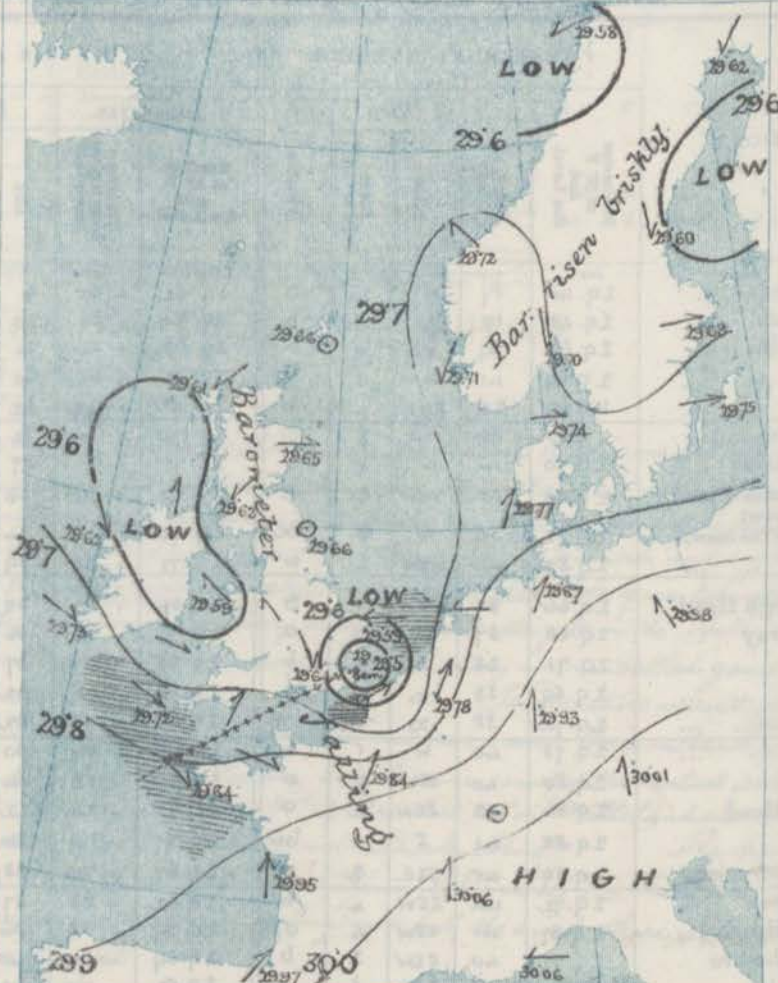
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.856



## 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 November.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	45.0	38.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.68
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.02
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	40.5	39.2	2.30
Cambridge	48.5	35.3	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 in. and upwards, over Spain and the southern part of Germany and France.  
lowest, 29.5 in. and less, in a small depression lying near the mouth of the Rhine; low 29.5 in. and less, in other shallow depressions  
lying respectively over our western coasts, the Gulf of Bothnia and the north of Norway.  
Barometer light excepting in the immediate neighbourhood of the southern depression. Barometer falling at all but the Scandinavian stations.

## TEMPERATURE

Highest, 56° at Berlin, 50° at Biarritz, 49° at Conant, and 48° at Jersey, Dungeness and West.  
Lowest, 4° at Haparanda, 20° at Helsingfors, 22° at Haparanda, 26° at Munich, 29° at Belfast and 30° at Leith.  
Frost occurred last night over Scotland and Central Ireland.

## WIND

Moderate or fresh from W. on the south coast of England and Ireland.  
SW<sup>ly</sup> or S<sup>ly</sup> over the greater part of France, Germany and Denmark.  
Strong from E. at Yarmouth; light and variable on our north and northeast coasts.

## WEATHER

Fair in Scandinavia, Denmark, the northern parts of our Islands, and the south of France.  
Dull elsewhere, with rain over the Netherlands and south-east of England, as well as at several of our western stations.  
Solar and lunar halos were seen over England yesterday, and rain fell generally at night, the largest amount being 2.3 in. at West; 0.8 in. at Scarborough;  
0.7 in. at Holyhead and 0.6 in. at Dungeness.

## SEA

Rather rough off the southeast of England, as well as at the mouth of the Channel, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression in the southeast will probably continue to move away in an east-northeasterly direction, but the disturbance in the west (a larger system) is likely to advance eastward over England. Unsettled weather may therefore be expected to continue in most places, with freshening winds in the Channel.

## FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> Nov<sup>r</sup> 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SE <sup>ly</sup> and E <sup>ly</sup> winds, light or moderate; fair to dull and rainy.
1	SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
2	ENGLAND N.E.	Variable breezes, unsettled, rain at times.
3	ENGLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
4	MIDLAND COUNTIES	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
5	ENGLAND SOUTH	W <sup>ly</sup> to SW <sup>ly</sup> winds, moderate or fresh; unsettled, rain at times.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SE <sup>ly</sup> and E <sup>ly</sup> winds, shifting to the NW <sup>ly</sup> ; dull and rainy to fair.
7	ENGLAND N.W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
8	ENGLAND S.W.	W <sup>ly</sup> winds, fresh; cloudy, showery.
9	IRELAND NORTH	NW <sup>ly</sup> winds, freshening; squally, showery.
10	IRELAND SOUTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes ...	29.63	41	37	W 7	o h g	5	Holyhead ...	29.62	47	44	SW 4	6 c	4
Sumburgh Head ...	29.63	39	38	NW 3	c	2	Valencia ...	29.70	50	46	SSW 3	c	3
Stornoway ...	29.68	38	37	NE 3	o	3	Scilly ...	29.88	48	46	SW 4	6	5
Aberdeen ...	29.72	38	36	WNW 1	6 c	1	Dungeness ...	29.99	50	48	WSW 4	c	4
Shields ...	29.72	43	40	SSW 2	6 c	2	London ...	29.96	53	48	SSW 8	c	*
Ardrossan ...	29.71	44	42	SSW 4	6	3	Yarmouth ...	29.95	47	45	WSW 3	6	3
Malin Head ...	29.67	43	41	SW 4	c	4	Jersey ...	30.00	48	47	S 8	o	3
Mullaghmore ...	29.71	44	41	SW 5	c	4	Rochefort ...	30.14	50	49	SSE 5	m	2
Belmullet ...	29.71	42	40	WSW 3	c p	*							

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

The reports for yesterday morning showed that a well marked band in which readings exceeded 30.1 in. lay over Spain, France, Germany, Austria, southwestern Russia and the Black Sea. To the northward of this band pressure decreased gradually to rather below 29.5 in. over Northern Europe, while to the southward it decreased to rather below 29.2 in. in a complete depression, which lay over the Mediterranean. Thus while S<sup>2</sup> to W<sup>2</sup> winds prevailed over all the more northern countries (and blew a gale on the shores of the Baltic) with somewhat showery weather, the winds in the south of France were N<sup>2</sup> or NE<sup>2</sup>, and at Malta NW<sup>2</sup>, with heavy local rains and some thunderstorms. Temperature had fallen decidedly over the British Islands, but had not changed much elsewhere. It was still below the freezing point over the inland parts of France, Germany, and many parts of Russia, Lapland, Sweden, and the north of Scotland, but was above 40° over the southern part of the British Isles, Holland, and the Baltic, and rather above 60° over Eastern Algeria, and the southeastern part of the Mediterranean. The lowest individual values were 19° at Hunsdorf, 22° at Haparanda, 26° at Clermont, 27° at Libanoy, 28° at Archangel, 29° at Nain, 30° at Budapest, Nizh, and Aberdeen, 31° at Lyons, and 32° at Belfast.

Later in the day the barometer fell and pressure distribution became very complex over the British Isles, while the wind became variable and the weather very unsettled, and temperature decreased irregularly.

### 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 Wednesday 30<sup>th</sup> NOVEMBER.

1887.

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

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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.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.76	-10	Z	0	b	29.75	+ .13	5	5	+ 1	E	2	0	*	18	-10	—	
Hernösand ...	29.84	8	Z	0	b	29.80	+ .26	-2	-2	- 22	Z	0	b	*	21	?	—	
Stockholm ...	29.83	21	NNE	2	b	29.76	+ .08	23	22	- 9	NNE	2	bc	*	34	21	—	
Wisby ...	29.77	35	S	2	0	29.59	- .16	35	34	- 5	ENE	4	r	*	41	32	0.08	
Bodo ...	29.70	23	ESE	2	bc	29.58	.00	21	18	- 1	ENE	4	c	2	25	19	—	
Christiansund...	29.67	28	ESE	4	b	29.46	- .24	31	29	- 1	SE	4	b	3	?	25	0.39	
Skudesnaes ...	29.63	29	ESE	4	0	29.60	- .11	38	36	+ 1	SSE	8	c	5	40	37	—	
Christiania Fjord (Fæder)	29.71	31	NE	3	bc	29.74	+ .04	26	25	- 10	NNE	4	c	1	36	23	—	
Skagen (The Scaw)	29.64	37	Z	0	bc	29.66	- .08	35	32	- 1	E	3	0	2	41	32	—	
Fanø ...	29.50	36	ENE	4	r	29.65	- .12	36	36	- 3	NW	1	c	*	41	34	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.57	36	Z	0	0	29.43	- .23	38	36	+ 3	WSW	1	c	1	41	33	0.11	
Stornoway ...	29.60	36	NE	3	c	29.45	- .16	41	41	+ 5	SW	5	0	4	41	31	0.07	
Wick ...	29.58	31	NW	1	bc	29.50	- .15	38	37	+ 1	W	2	orap	1	38	30	0.04	
Nairn ...	29.59	31	Z	0	0	29.54	- .09	37	35	+ 5	W	3	c	1	37	30	—	
Aberdeen...	29.59	33	SW	1	bc	29.62	- .03	33	31	+ 1	WSW	1	b	0	38	30	—	
Leith ...	29.61	34	W	1	m	29.69	+ .05	36	34	+ 6	W	1	c	*	37	29	—	
Shields ...	29.59	38	N	2	r	29.71	+ .05	35	34	+ 1	W	2	c	2	39	31	0.04	
Spurn Head ...	29.60	39	S	1	0	29.73	+ .08	39	38	- 3	NW	5	bc	3	43	36	0.29	
York ...	29.59	37	Z	0	m	29.78	+ .11	32	32	- 2	WNW	1	b	*	38	31	0.17	
Loughborough	29.63	41	WSW	2	0	29.79	+ .12	35	34	- 3	WNW	2	b	*	42	34	0.04	
GERMANY.																		
Ardrossan ...	29.62	36	Z	0	bc	29.71	+ .09	43	41	+ 6	W	2	bc	2	43	33	0.03	
Malin Head ...	29.64	41	N	5	bc	29.70	+ .11	41	40	+ 5	SW	4	or	4	43	36	0.13	
Mullaghmore ...	29.70	42	NNW	5	r	29.77	+ .18	42	41	+ 2	SSW	5	om	4	43	38	0.10	
Belmullet ...	29.76	44	NW	3	c	29.80	+ .18	47	47	+ 4	NW	2	bc	*	47	38	0.10	
Donaghadee ...	29.69	34	W	1	f	29.79	+ .17	34	33	- 4	W	2	b	0	41	32	0.01	
Barrow-in-Furness	29.61	36	NW	3	0	29.77	+ .14	35	35	- 3	N	3	bc	*	39	34	0.64	
Liverpool (Bidston)	29.63	29	WNW	3	0	29.81	+ .19	41	38	+ 2	NW	2	bc	3	41	38	0.14	
Holyhead ...	29.64	29	Z	0	bc	29.83	+ .24	41	38	+ 2	WNW	4	b	3	44	38	0.04	
Parsonstown ...	29.74	40	W	2	0	29.88	+ .33	35	34	+ 2	Z	0	0	*	43	38	—	
Valencia ...	29.86	42	NW	4	bc	29.94	+ .21	48	46	+ 4	W	1	amp	1	48	39	0.24	
Roche's Point...	29.75	42	WNW	4	b	29.92	+ .24	40	38	- 1	W	1	bc	3	45	38	0.06	
Pembroke ...	29.69	45	WNW	4	bc	29.88	+ .24	43	42	- 1	NW	3	bc	2	46	41	0.08	
Scilly ...	29.77	44	WNW	5	0	29.92	+ .20	46	44	0	NW	5	chp	5	48	41	0.17	
Prawle Point ...	29.77	42	NW	4	b	29.90	+ .18	37	36	- 8	NW	3	b	2	48	34	0.01	
Jersey ...	29.87	47	WNW	3	c	29.90	+ .11	42	39	- 6	NNW	3	b	2	50	39	0.31	
Hurst Castle ...	29.73	40	WSW	3	b	29.87	+ .16	35	35	- 5	NNW	2	bc	3	49	34	0.02	
Dungeness ...	29.66	45	WNW	5	b	29.80	+ .25	33	33	- 15	WNW	3	bc	2	47	32	—	
London ...	29.68	40	WNW	2	b	29.83	+ .19	33	33	- 7	W	2	b	*	45	32	0.03	
Oxford ...	29.71	36	WSW	2	b	29.85	+ .17	32	31	- 7	W	1	c	*	42	31	—	
Cambridge ...	29.65	41	SW	1	0	29.79	+ .15	35	34	- 4	W	1	c	*	42	33	0.03	
Yarmouth ...	29.62	41	NW	1	om	29.75	+ .14	38	37	- 4	W	3	of	3	43	35	0.06	
Curhaven ...	29.58	41	S	1	r	29.67	- .20	40	39	+ 1	N	3	c	*	42	39	0.48	
Berlin ...	29.70	41	SW	2	0	29.71	- .27	42	40	+ 8	WSW	3	0	*	43	?	—	
Wiesbaden ...	*	*	*	*	*	29.84	- .09	41	41	+ 4	SW	1	0	*	45	?	—	
Munich ...	29.98	34	SW	1	bc	29.87	- .13	30	28	+ 4	NW	2	0	*	41	25	—	
FRANCE & NETHERLANDS.																		
The Helder ...	29.57	42	WNW	5	r	29.72	+ .01	40	40	+ 2	W	4	c	3	46	39	0.47	
Brussels ...	*	*	*	*	*	29.83	+ .05	37	37	- 8	SSW	3	bc	*	47	37	0.04	
Cape Gris Nez...	29.67	46	W	8	bc	29.87	+ .02	42	41	- 4	W	5	b	4	48	41	—	
Brest ...	29.86	45	SW	3	0	29.89	+ .05	38	38	- 3	SW	3	f	*	47	37	—	
Lorient ...	29.83	47	NW	4	bc	29.98	+ .14	45	43	- 3	N	5	0	4	50	41	—	
Beaufort ...	29.88	47	WNW	3	bc	29.95	+ .08	43	41	- 6	N	5	b	4	50	39	—	
Dartfort ...	29.95	48	S	4	r	30.01	+ .06	47	45	+ 1	WNW	1	c	2	50	41	0.43	
Lyons ...	29.91	39	ENE	1	b	29.92	- .05	39	39	+ 10	W	1	r	*	47	?	0.04	
Nice ...	29.93	43	SSW	1	b	29.91	- .15	39	39	+ 7	N	3	r	*	50	?	—	
Perpignan ...	30.01	50	Z	0	0	29.97	- .09	46	41	0	ENE	3	0	3	55	43	—	
Biarritz ...	29.95	48	Z	0	0	29.89	+ .03	49	45	- 4	NW	3	0	*	53	49	—	
Corunna ...	29.90	54	Z	0	0	30.00	+ .03	46	45	- 4	E	4	r	2	59	45	0.39	
Lisbon ...	30.10	52	NNW	5	0	30.10	+ .04	47	46	- 9	NNE	4	b	5	59	46	0.32	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 30<sup>TH</sup> NOVEMBER.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

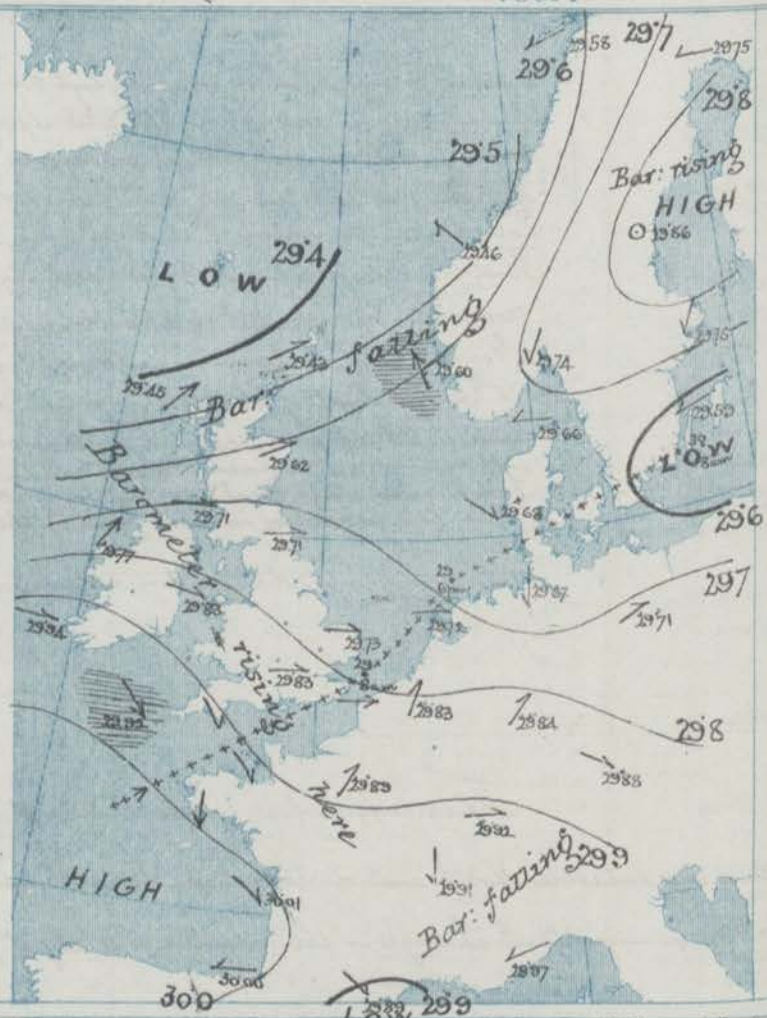
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 \* → = forces above 10; \* → → = forces 8 to 10;  
 \* → = forces 5 to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

**Sea Disturbance**—where considerable is shown thus  
 [Hatched Box] = Rough. [Solid Box] = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.724
Stornoway	29.755
Wick	29.767
Nairn	29.786
Aberdeen	29.782
Leith	29.820
Shields	29.830
York	29.847
Ardrossan	29.824
Donaghadee	29.832
Holyhead	29.845
Liverpool	29.862
Valencia	29.880
Roche's Point	29.875
Pembroke	29.867
Scilly	29.899
Hurst Castle	29.885
Dover	29.882
LONDON	29.885
Oxford	29.888
Cambridge	29.878
Yarmouth	29.855



## 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.

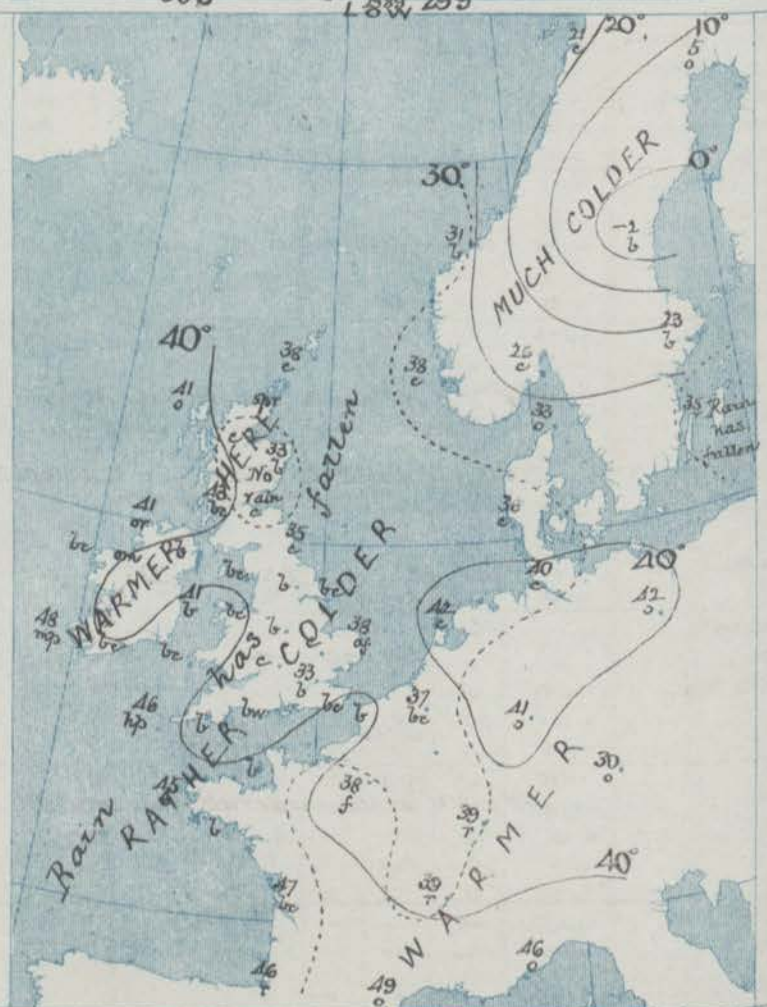
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	AT 8 A.M.		
			Dry.	Wet.	
Sumburgh Head	45.0	36.9	41.0	39.4	4.24
Stornoway	45.0	36.2	40.3	39.1	4.60
Wick	45.6	35.4	40.8	39.2	2.97
Nairn	44.2	35.3	38.8	37.2	2.32
Aberdeen	45.8	36.7	40.2	38.3	3.16
Leith	48.2	36.6	40.9	39.4	2.11
Shields	46.6	38.0	41.3	39.7	2.63
York	47.3	35.4	39.7	38.4	2.21
Ardrossan	47.6	38.8	42.2	39.8	3.92
Donaghadee	47.8	39.4	42.5	41.3	3.13
Holyhead	49.5	42.8	45.1	43.3	3.71
Liverpool	47.2	39.0	41.5	39.8	2.87
Valencia	52.0	42.3	46.8	44.6	5.50
Roche's Point	50.4	41.6	45.3	43.6	4.56
Pembroke	49.7	43.2	46.2	44.2	3.96
Scilly	52.0	46.3	49.5	47.4	3.76
Hurst Castle	50.0	39.5	44.1	43.1	2.98
Dover	48.5	40.3	43.6	41.9	3.56
LONDON	49.0	37.3	41.3	39.9	2.14
Oxford	47.9	37.1	39.5	39.2	2.30
Cambridge	48.5	35.8	39.6	38.8	2.02
Yarmouth	47.4	38.8	42.6	41.6	3.15

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 30.10 ins. at Lisbon; relatively high, 29.8 ins. and upwards over the Gulf of Bothnia Lowest 29.4 ins. and less in a depression lying off the North of Scotland: 29.6 ins. and less in another disturbance lying over the Baltic Gradients slight generally but increasing over Scotland. Barometer falling briskly in extreme North but rising elsewhere
TEMPERATURE	Highest 49° at Perpignan, 48° at Valencia, 47° at Balmuccia, Rochefort and Lisbon, and 46° at Biarritz and Nice Lowest -2° at Hernand, 5° at Haparanda, 21° at Bodø, 23° at Stockholm, 26° at Faøder, and 32° at Oxford. Frost occurred over Great Britain last night; in London the thermometer on the grass fell to 25°.
WIND	Moderate or fresh from SW. on our extreme North and northwest coasts, SE in the West of Norway. W. or NW over all the more eastern and southern parts of our Islands, and the West and North of France NE in the South of Sweden; SW. over North Germany.
WEATHER	Dull in the extreme West and North of our Islands as well as over Germany and the East of France, with rain at Malin Head, Belfort and Lyons, and sleet showers at Wick. Fine in most other localities, but foggy at Harwich and Paris. [Rain fell yesterday in most parts of the United Kingdom]
SEA	Rather rough at Lally and moderate on our extreme northwest coasts, but slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is appearing in the North seems likely to occasion a considerable increase of wind on our extreme North and northwest coasts, with rain or sleet in many places. Over the southern parts of the Kingdom no important change in the weather is likely at present.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> December 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW <sup>3</sup> and W <sup>3</sup> winds, increasing in force; dull. Some rain or sleet.	6 SCOTLAND WEST	Same as N <sup>os</sup> 1 and 2.
1 SCOTLAND EAST	W <sup>3</sup> winds, light to fresh; fair to unsettled and some cold showers.	7 ENGLAND N.W.	Same as N <sup>os</sup> 3 to 5.
2 ENGLAND N.E.	-----D°-----D°-----D°-----	8 ENGLAND S.W.	Same as N <sup>os</sup> 3 to 5.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	Same as N <sup>o</sup> 0.
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 IRELAND SOUTH	W <sup>3</sup> winds, moderate, cloudy, some showers.
5 ENGLAND SOUTH	NW <sup>3</sup> and W <sup>3</sup> winds, moderate, fair generally	WARNINGS	NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.64	40	37	ESE 4	r	3	Holyhead ...	29.61	42	41	NW 3	c	2
Sumburgh Head ...	29.60	37	34	L 0	c	0	Valencia ...	29.80	46	42	NW 4	bcgwp	5
Stornoway ...	29.60	38	37	NE 4	0	3	Scilly ...	29.75	48	45	WNW 4	c	3
Aberdeen ...	29.62	37	36	WSW 1	m	0	Dungeness ...	29.66	44	42	WNW 4	c	3
Shields ...	29.59	39	37	NW 1	r	2	London ...	29.65	45	43	W 3	c	*
Ardrossan ...	29.60	38	37	ENE 2	bf	1	Yarmouth ...	29.58	42	41	NW 2	cpf	4
Malin Head ...	29.61	42	41	SW 2	bcp	2	Jersey ...	29.78	50	46	W 4	cp	3
Mullaghmore ...	29.63	41	40	N 1	c	3	Rochefort ...	29.96	49	49	SSE 1	r	2
Belmullet ...	29.70	42	40	NNW 5	cp	*							

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure then varied from 30.1 in. and more over Austria and the southeast of Russia, as well as over the northern parts of Africa and the southern parts of Spain, to rather below 29.6 in. in a depression which lay over our northwestern districts, to somewhat below 29.5 in. in a very small but deeper system which had advanced to the southeast of England from the westward during the night, and to a little below 29.3 in. on the shores of the White Sea. The winds over the whole of northwestern and northern Europe were consequently, as a whole, W.G. (SW to NW) and varied in force from a moderate and fresh gale in some parts of France, and a strong breeze over the western parts of the Baltic, to a light breeze in other places. In the North of Scotland NE Gairs were reported and cold fair weather, while over Russia and southern Europe the wind was very light and the weather fine, but in the North of France and the South of our Islands cold showers were reported pretty generally, with bright intervals. Temperature which had decreased decidedly, varied from about 60° over the southeastern part of the Mediterranean and at Madeira, and from somewhat above 50° in Portugal to 32° in the East of Scotland, to several degrees below the freezing point over central Germany, Austria and Poland, and to many degrees below the freezing point over northern Russia. The highest individual values were 62° at Lanchol (Madeira), 60° at Malta, 57° at Brindisi, 56° at Palermo and Lisbon, 57° at Lasina and Bilbao and 50° at Barcelona and Cagliari. The lowest were 11° at Haparanda, 14° at Uleaborg, 19° at Archangel, 20° at Hornösand, 22° at Bodö, 23° at Hermanstadt, 26° at Munich, and 29° at Belfast. Later in the day the depression over our Islands moved northeastward, and at night temperature became very low over the United Kingdom and 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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# CORRECTIONS AND ADDITIONS TO THE REPORTS FOR NOV<sup>R</sup> 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.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
1	Parsonstown	29.39	47	SSE	2	0	28.67	-.86	40	39	0	SW	1	T	*	50	39	0.58		
"	Jersey	29.85	51	WNW	5	bc	29.30	-.35	50	47	+ 5	SSE	9	om	7	53	44	0.16		
"	Brussels	*	*	*	*	*	29.68	+ .06	39	-	- 6	SSE	5	b	*	49	36	0.08		
"	Brest	-	-	-	-	-	29.21	-.57	49	-	- 1	SW	9	c	8	53	46	0.38		
"	Corunna	*	*	*	*	*	29.60	-.55	56	53	+ 1	W	8	T	5	63	41	0.55		
"	Lisbon	30.23	57	WNW	5	c	29.95	-.22	59	8	+ 2	SW	8	0	8	63	55	0.04		
2	Corunna	*	*	*	*	*	29.80	+ .20	54	53	- 2	SW	3	t	6	61	50	0.24		
3	Corunna	*	*	*	*	*	29.59	-.21	59	58	+ 5	SW	8	T	5	61	46	1.02		
4	Haparanda	29.93	33	SE	2	S	29.90	-.17	36	36	+ 4	S	4	0	*	7	23	0.43		
"	Hernösand	29.75	44	SSE	6	0	29.62	-.11	44	44	+ 3	SE	6	T	*	46	36	0.20		
"	Stockholm	29.69	45	ESE	7	0	29.58	-.16	48	46	+ 3	SSE	2	0	*	48	37	-		
"	Kisby	29.63	48	S	6	0	29.56	-.17	48	46	+ 1	SE	4	0	*	50	41	-		
8	Corunna	*	*	*	*	*	29.80	+ .05	51	49	- 4	SW	5	bc	6	59	46	0.35		
10	Corunna	*	*	*	*	*	30.01	.00	54	52	+ 4	NNE	5	b	4	55	48	0.12		
11	Corunna	*	*	*	*	*	30.01	.00	42	41	- 12	ESE	1	0	4	57	?	-		
12	Corunna	*	*	*	*	*	29.84	-.17	53	52	+ 11	ESE	1	T	4	61	?	1.18		
14	Belfast	29.75	38	NE	1	b	29.54	-	37	36	-	ESE	4	T	*	42	31	0.20		
"	Corunna	*	*	*	*	*	29.88	+ .17	53	50	- 7	NE	1	0	4	64	50	0.32		
"	Lisbon	29.88	63	SW	5	0	29.82	-.04	60	59	- 1	W	3	T	5	66	59	0.28		
15	Corunna	*	*	*	*	*	29.73	-.15	51	48	- 2	NE	5	bc	5	54	46	-		
17	Corunna	*	*	*	*	*	29.65	-	49	48	-	ESE	1	0	4	52	45	-		
18	Corunna	*	*	*	*	*	29.72	+ .09	48	47	- 1	NNE	1	T	4	59	45	-		
19	Corunna	*	*	*	*	*	29.66	-.06	51	47	+ 3	WNW	9	T	7	57	44	0.28		
21	Corunna	*	*	*	*	*	29.65	-.17	49	48	- 5	SSW	4	T	4	57	46	0.24		
22	Corunna	*	*	*	*	*	29.56	-.09	44	43	- 5	S	3	T	7	54	41	0.51		
24	Corunna	*	*	*	*	*	29.73	-	51	49	-	ESE	1	0	4	55	45	-		
25	Corunna	*	*	*	*	*	30.06	+ .38	46	-	- 5	NE	1	c	4	57	43	0.04		
26	Kisby	29.86	37	SW	4	T	29.38	-.25	40	38	+ 3	W	4	0	*	41	32	0.20		
"	Corunna	*	*	*	*	*	30.14	+ .08	39	38	- 7	E	3	b	4	55	37	-		
28	Helder	29.75	47	SW	4	bc	29.95	+ .25	45	42	- 1	WSW	3	c	3	48	45	-		
"	Corunna	*	*	*	*	*	30.06	-.04	53	50	+ 2	SE	4	0	4	59	48	-		
29	Perpignan	30.09	43	S	1	b	30.06	-.08	41	-	+ 2	WSW	1	0	*	61	?	-		
30	Corunna	*	*	*	*	*	30.12	-	44	43	-	NE	1	T	3	54	43	0.83		



**SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC REPORTING**  
 Observations are made at 8 a.m. daily, but the numbers of days of Rain, Snow, Hail,  
 (The Stations are grouped in Districts, and then arranged in order of

Names of Districts.	Names of Stations.	Mean height of Barometer (at 32° Fahrenheit and Mean Sea Level) from observations made at 8 a.m.	Air Temperature.								Tension of Vapour
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
		ins.	°	°	°	°	°	°	°	ins.	
0. SCOTLAND, N.	{ Sumburgh Head ...	29.606	40.9	37.1	44.4	40.8	27	14 <sup>th</sup>	49	4 <sup>th</sup> +26 <sup>th</sup>	0.232
	{ Wick ...	29.616	41.0	35.0	45.3	40.2	24	5 <sup>th</sup> +29 <sup>th</sup>	52	9 <sup>th</sup>	0.242
	{ Stornoway ...	29.579	42.1	36.0	46.1	41.1	29	15 <sup>th</sup>	51	25 <sup>th</sup>	0.255
1. SCOTLAND, E.	{ Nairn ...	29.611	40.2	34.8	45.2	40.0	23	16 <sup>th</sup>	53	25 <sup>th</sup> +26 <sup>th</sup>	0.215
	{ Aberdeen ...	29.625	39.5	35.4	45.0	40.2	27	16 <sup>th</sup>	55	26 <sup>th</sup>	0.213
	{ Leith ...	29.639	40.9	37.2	45.0	41.1	29	29 <sup>th</sup> +30 <sup>th</sup>	53	26 <sup>th</sup>	0.224
2. ENGLAND, N.E.	{ Shields ...	29.651	41.2	37.1	45.8	41.5	27	16 <sup>th</sup>	53	26 <sup>th</sup> +27 <sup>th</sup>	0.217
	{ York ...	29.681	38.7	35.4	45.0	40.2	24	18 <sup>th</sup>	53	5 <sup>th</sup> 6 <sup>th</sup> +26 <sup>th</sup>	0.212
	{ Spurn Head ...	29.676	42.6	39.0	45.7	42.4	32	17 <sup>th</sup> 19 <sup>th</sup> +20 <sup>th</sup>	51	4 <sup>th</sup>	0.242
3. ENGLAND, E.	{ Yarmouth ...	29.689	41.8	37.6	45.1	41.4	27	17 <sup>th</sup>	52	4 <sup>th</sup>	0.237
	{ Cambridge ...	29.707	38.8	33.8	45.9	39.9	21	17 <sup>th</sup>	56	6 <sup>th</sup>	0.211
4. MIDLAND COUNTIES.	{ Loughborough ...	29.701	38.2	35.3	46.3	40.8	19	16 <sup>th</sup>	56	6 <sup>th</sup>	0.210
	{ Oxford ...	29.712	38.2	35.4	45.0	40.2	19	17 <sup>th</sup> +18 <sup>th</sup>	54	4 <sup>th</sup> +5 <sup>th</sup>	0.206
5. ENGLAND, S.	{ London ...	29.704	40.3	37.2	46.6	41.9	23	16 <sup>th</sup> +17 <sup>th</sup>	56	4 <sup>th</sup>	0.225
	{ Dungeness ...	29.680	43.5	39.6	48.1	43.9	28	21 <sup>st</sup>	54	4 <sup>th</sup> +5 <sup>th</sup>	0.245
	{ Hurst Castle ...	29.692	42.5	38.5	47.4	43.6	28	16 <sup>th</sup> +17 <sup>th</sup>	54	2 <sup>nd</sup> 4 <sup>th</sup> 5 <sup>th</sup> +6 <sup>th</sup>	0.263
6. SCOTLAND, W.	Ardrossan ...	29.638	41.7	37.1	46.1	41.6	27	15 <sup>th</sup>	51	5 <sup>th</sup> +30 <sup>th</sup>	0.230
7. ENGLAND, N.W.	{ *Hawes Junction ...	28.421	36.3	32.8	40.7	36.8	21	16 <sup>th</sup>	49	6 <sup>th</sup>	0.206
	{ Barrow-in-Furness ...	29.656	41.2	38.1	45.8	42.0	30	16 <sup>th</sup>	52	8 <sup>th</sup>	0.219
	{ Liverpool Obs <sup>y</sup> (Bidston)	29.673	39.8	37.4	45.1	41.3	29	16 <sup>th</sup> 17 <sup>th</sup> +21 <sup>st</sup>	53	26 <sup>th</sup>	0.207
	{ Holyhead ...	29.656	43.1	40.7	47.5	44.1	34	16 <sup>th</sup> 24 <sup>th</sup> 25 <sup>th</sup>	52	1 <sup>st</sup> 2 <sup>nd</sup> 26 <sup>th</sup>	0.235
8. ENGLAND, S.W.	{ Pembroke ...	29.648	43.8	40.4	47.6	44.0	33	16 <sup>th</sup> +17 <sup>th</sup>	53	2 <sup>nd</sup>	0.254
	{ Prawle Point ...	29.680	43.8	38.0	48.9	43.5	32	25 <sup>th</sup>	53	1 <sup>st</sup> 5 <sup>th</sup> 5 <sup>th</sup> 9 <sup>th</sup>	0.246
9. IRELAND, N.	{ Malin Head ...	29.603	43.0	39.4	46.4	42.9	33	26 <sup>th</sup>	52	25 <sup>th</sup>	0.257
	{ Donaghadee ...	29.648	41.6	37.3	46.7	42.0	29	16 <sup>th</sup> +24 <sup>th</sup>	52	5 <sup>th</sup> 8 <sup>th</sup> 25 <sup>th</sup> 26 <sup>th</sup>	0.231
	{ Mullaghmore ...	29.629	42.4	39.2	47.5	43.4	32	24 <sup>th</sup>	53	2 <sup>nd</sup> +13 <sup>th</sup>	0.235
	{ Belmullet ...	29.649	43.6	40.5	47.5	44.0	32	15 <sup>th</sup>	51	7 <sup>th</sup> 8 <sup>th</sup> 25 <sup>th</sup> 26 <sup>th</sup>	0.244
10. IRELAND, S.	{ Parsonstown ...	29.670	37.4	33.3	46.2	39.8	24	24 <sup>th</sup>	54	26 <sup>th</sup>	0.204
	{ Valencia ...	29.694	45.2	41.3	50.1	45.7	33	24 <sup>th</sup>	54	5 <sup>th</sup>	0.243
	{ Roche's Point ...	29.668	42.4	39.0	48.5	43.8	31	24 <sup>th</sup>	53	1 <sup>st</sup> 3 <sup>rd</sup> 5 <sup>th</sup> +9 <sup>th</sup> +26 <sup>th</sup>	0.225
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ..	29.662	47.7	44.0	50.3	47.2	39	16 <sup>th</sup>	54	2 <sup>nd</sup> +26 <sup>th</sup>	0.271
	{ Jersey (Noirmont) ...	29.698	45.7	42.0	49.4	45.7	31	17 <sup>th</sup>	57	9 <sup>th</sup>	0.251
Hawes Junction is 1185 feet above mean Sea Level and the											

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STATIONS in the BRITISH ISLANDS during the Month of **NOVEMBER 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							Wind										
		Total Fall in the month	Maximum Fall in one day	Date	No. of Days of							No. of Observation of										
					Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms		
%		ins.	in.																			
91	9.0	3.12	0.48	15 <sup>th</sup>	22	1	0	0	1	22	3	5	5	1	5	0	2	3	1	8		
94	8.5	2.27	0.36	20 <sup>th</sup>	21	3	0	0	0	18	4	1	5	1	4	3	3	3	10	0		
95	8.4	3.58	0.48	15 <sup>th</sup> & 25 <sup>th</sup>	22	1	0	0	1	21	8	1	4	8	3	3	4	3	3	1		
87	7.6	1.75	0.22	27 <sup>th</sup>	17	1	0	0	3	13	0	0	0	6	1	0	11	4	0	8		
88	7.0	2.54	0.60	7 <sup>th</sup>	22	2	1	0	5	14	3	2	4	1	0	3	6	8	6	0		
88	6.7	2.67	0.79	7 <sup>th</sup>	18	1	0	0	4	10	0	2	4	3	3	4	1	12	1	0		
85	8.0	2.59	0.47	14 <sup>th</sup>	18	2	0	0	1	16	4	0	6	2	1	4	6	5	2	4		
90	7.1	1.82	0.37	5 <sup>th</sup>	20	0	0	0	7	17	0	6	3	3	1	6	4	3	2	2		
89	5.0	1.98	0.31	5 <sup>th</sup>	19	0	0	0	5	3	4	4	5	3	1	4	6	3	3	1		
90	6.8	2.23	0.51	3 <sup>rd</sup>	22	0	2	0	2	7	5	1	5	8	0	3	4	6	2	1		
90	7.1	1.80	0.40	3 <sup>rd</sup>	16	1	0	1	7	17	0	12	0	1	0	7	6	2	0	2		
92	7.9	1.56	0.42	5 <sup>th</sup>	16	0	0	1	3	20	3	2	6	3	3	1	5	4	3	3		
90	7.5	2.02	0.38	9 <sup>th</sup>	17	2	0	0	7	19	2	6	10	1	0	4	6	2	0	1		
91	7.9	3.85	0.63	3 <sup>rd</sup>	19	2	1	0	5	20	5	3	5	5	2	3	5	3	0	4		
87	7.8	3.81	0.70	9 <sup>th</sup>	23	0	0	0	1	12	2	3	1	4	7	3	3	7	2	0		
91	5.9	3.83	0.59	3 <sup>rd</sup>	24	0	1	0	6	5	5	6	7	4	1	0	5	5	2	0		
88	7.0	2.45	0.42	26 <sup>th</sup>	17	1	0	0	5	14	9	1	10	5	2	3	5	2	2	0		
96	8.8	5.08	1.46	26 <sup>th</sup>	20	3	1	0	3	24	2	3	2	6	7	2	6	1	2	1		
85	6.4	2.87	0.64	26 <sup>th</sup> & 29 <sup>th</sup>	17	1	0	0	1	10	3	5	11	1	2	4	6	0	1	0		
85	6.6	1.22	0.21	23 <sup>rd</sup> & 25 <sup>th</sup>	16	0	0	0	7	12	2	0	7	4	6	5	4	2	2	0		
84	6.8	3.09	0.72	3 <sup>rd</sup>	17	0	1	0	1	7	2	1	5	5	5	2	5	5	1	1		
89	6.3	4.06	0.62	21 <sup>st</sup>	20	0	0	0	3	8	4	0	11	5	1	2	3	6	2	0		
86	6.3	3.17	0.47	13 <sup>th</sup>	19	0	1	0	3	9	5	3	7	5	1	4	4	3	3	0		
93	7.2	2.41	0.52	27 <sup>th</sup>	22	0	1	0	3	14	0	1	6	2	1	6	8	3	3	0		
89	5.6	1.95	0.48	2 <sup>nd</sup>	16	0	0	0	8	7	8	0	7	5	1	1	6	10	0	0		
87	7.0	3.21	0.65	5 <sup>th</sup>	18	0	2	0	2	6	8	0	4	6	2	5	10	1	2	0		
86	7.4	5.97	0.72	11 <sup>th</sup>	24	0	1	0	2	14	6	2	3	7	4	1	5	3	5	0		
91	6.3	2.10	0.47	5 <sup>th</sup>	16	0	0	0	7	13	0	3	3	1	1	2	4	0	0	16		
81	6.9	4.82	0.83	20 <sup>th</sup>	20	0	2	1	2	11	5	4	8	1	1	2	2	6	4	2		
83	4.6	3.83	0.85	21 <sup>st</sup>	15	0	0	0	12	5	5	7	8	1	0	1	1	10	2	0		
82	8.5	3.57	0.41	5 <sup>th</sup>	24	0	2	2	0	16	5	3	5	8	0	2	2	6	4	0		
82	6.3	5.43	0.71	13 <sup>th</sup>	23	1	2	1	6	11	4	4	6	5	2	1	6	3	2	1		
Baremetric Observations at this Station are not corrected for altitude.																						

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 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.		
1	Belmullet...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30	
2	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
3	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
4	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
5	Mullaghmore	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	0.29	
6	Pembroke...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	Mullaghmore	-	-	-	6	-	-	-	-	-	-	32W	-	-	-	-	-	-	
8	Jersey....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	
9	Shields....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
10	Spurn Head	-	-	-	-	-	30.08	-	-	-	-	-	-	-	-	-	-	-	
11	Parsonstown	30.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	Mullaghmore	-	-	-	-	-	-	-	43	-	0	-	-	-	-	-	-	-	
13	Mullaghmore	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	
14	Spurn Head	29.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	Barron-in-Tur.	30.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	London....	30.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
18	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	
19	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
20	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain	
21	Scilly....	-	-	-	-	-	-	-	-	-	-	W.W.	-	-	-	-	-	-	
22	Jersey....	-	-	-	-	-	-	-	41	40	-	-	-	-	-	-	-	-	
23	Stormoway..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	
24	Aberdeen..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	-	
25	Valencia...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	
26	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	
27	Oxford....	-	-	-	-	-	-	-	39	-	+ 10	-	-	-	-	39	-	-	
28	Lumburgh Hd.	-	-	-	-	-	28.76	-	-	-	-	-	-	-	-	-	-	-	
29	Jersey....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	
30	Stormoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-	
31	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	
32	Cambridge..	29.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	Shields 2m.	-	-	-	-	-	29.79	-	-	-	-	-	-	-	-	-	-	-	
34	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
35	Brest....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	-	
<div>Errata. In consequence of a telegraphic error the following correction is necessary in the "Monthly Summary for October, - At Belmullet the Total Rainfall for the month should read "381 and the Maximum fall in One Day "1.30"</div>																			

## Errata

In consequence of a telegraphic error the following correction is necessary in the "Monthly Summary for October, - At Balmullet the total Rainfall for the month should read "381" and the maximum fall in one day "1.30".